ARIS SUMMARY SHEET

District Geologist, Nelson Off Confidential: 89.06.13

ASSESSMENT REPORT 17514 MINING DIVISION: Fort Steele

PROPERTY: Purcell
LOCATION: LAT 49 30 00 LONG 116 04 00
UTM 11 5483240 567582
NTS 082F08E 082F09E
CLAIM(S): LDM 1,2,4-12,Buck 6,8-11,13,Bar,Racki 5,6,8,9,12,14-18,Palm Bar Lode 1-3,Crystal,Lucky Bar 1-3
OPERATOR(S): Chapleau Res.
AUTHOR(S): Banting, R.T.
REPORT YEAR: 1988, 265 Pages
GEOLOGICAL SUMMARY:

The claim area is underlain by Precambrian sedimentary rocks of the Kitchener, Creston, and Aldridge Formations. In the Perry Creek area, the Creston and Kitchener Formations predominates, and are lenticular and trend north. They are commonly fault bounded by the Aldridge Formation to the north. Moyie sills are distributed throughout the map area.

WORK DONE: Geological,Geochemical,Physical
GEOL 5000.0 ha
Map(s) - 2; Scale(s) - 1:10 000
ROCK 390 sample(s) ;AU,PB,CU,ZN,AS
SAMP 16 sample(s) ;AU,PB,CU,ZN,AS
SILT 172 sample(s) ;AU,PB,CU,ZN,AS
SOIL 2678 sample(s) ;AU,PB,CU,ZN,AS
TREN 1220.0 m
MINFILE: 082FNE059,082ESE095

ASSESSMENT REPORT

ON THE PURCELL CAMP

MORGAN SOUTH, BUCK II, AND BAR PROPERTIES

Fort Steele Mining Division

NTS: 82F/8E, 9E

Latitude: 49 30'N
Longitude: 116 4'W

on behalf of:

Chapleau Resources Ltd.
2100 - 4th Street No.
Cranbrook, B. C.
V1C 4X9

by

R. Tasse, P.Eng.

June 3, 1988

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FIGURES

TABLES

APPENDIX I

APPENDIX II

S U M M A R Y

This report is sumbitted on behalf of Chapleau Resources Ltd. of 2100 - 4th Street North, Cranbrook, B. C. Chapleau Resources Ltd. is presently the recorded owner of mining property in the Slocan and Cranbrook areas.

The Purcell Camp, comprising of 49 mineral claims of 414 units is located in the vicinity of lode gold prospects between Moyie River and Perry Creek. The property is divided into four contiguous blocks, designated as Morgan, Buck I, Buck II and Bar properties.

In 1987, Chapleau Resources Ltd. conducted an exploration program comprising of prospecting, geochemical sampling, trenching and gological survey. Geoichemical analysis on the Morgan and Bar outlined anomolour zones in Gold and Arsenic, while on the buck and Bar properties, stream sediment surveys clearly defined anomolous concentrations of Zinc and Lead as high as 10,000 ppm.
Prospecting located and outlined a stockwork of gold bearing quartz veins yielding assays of .6 oz/ton.

In consideration of the favourable structural and lithological geology of the Purcell Camp, and in recognition of the several anomalous zones, as evidenced from the 1987 field season, a Phase II program is recommended to evaluate the possibility for bulk-tonnage low grade replacement-type Au deposits and sediment-hosted massive sulphide mineralization.

1.0 INTRODUCTION

1.1 Location and Access

The Purcell Camp, comprised of the Morgan, Buck and Bar claims is located approximately 20 km. due west of Cranbrook, British Columbia. It centers on latitude 49 30'N and longitude 116'04'W (see Figure 1 & 2).

There are two means of access to the property: Access to the Perry Creek - Morgan claims is by a good, active, gravelled logging road from the Kimberley - Cranbrook highway, with junction at Wycliffe. From this point, one keeps to the left along Perry Creek for the south block of claims or bear right (Sawmill Creek Road) for the north block The last several miles are 4-wheeled drive only. Access to the Moyie River - Buck and Bar claims is by good, active, gravelled logging road from Highway #3 west with junction at Lumberton. From this point, one keeps to the Lumberton north side of Moyie River for the Buck and Bar claims.

1.2 Physiography

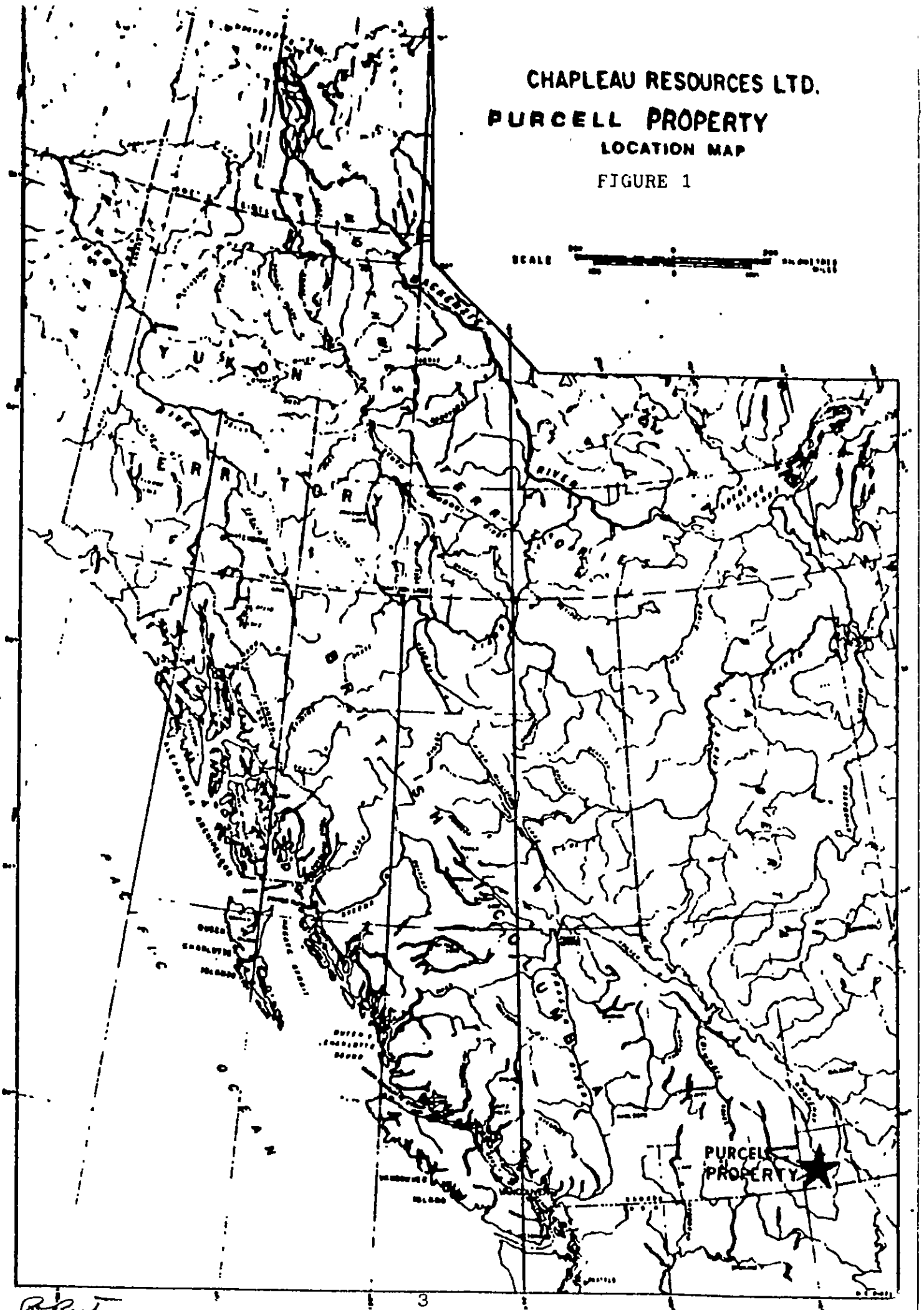
The property is situated west of the Rocky Mountain trench within the Moyie Range of the Purcell Mountains. The highest evelvation in the area is Grassy Mountain at 2491m. Elevations vary between 1220m and 2130m.

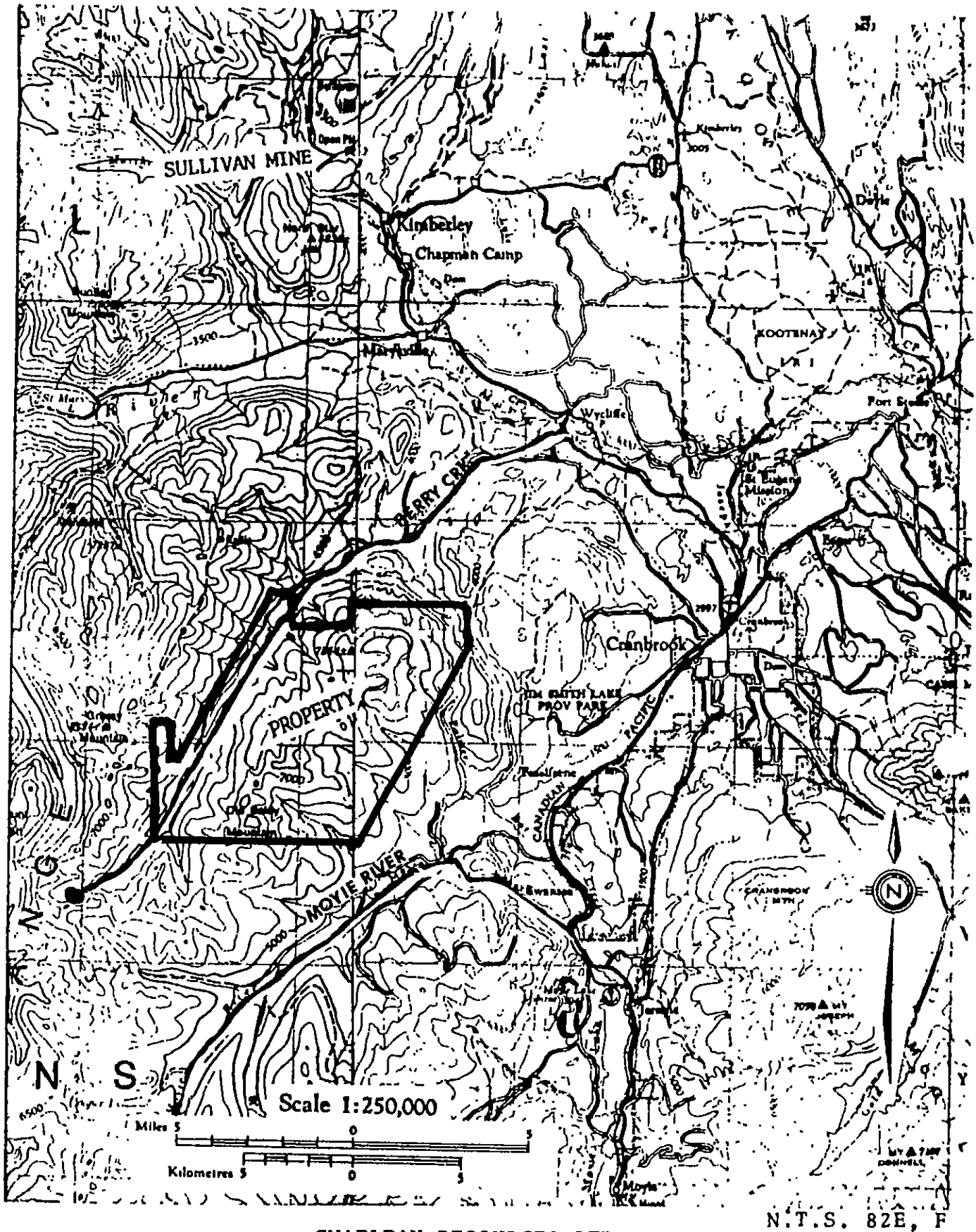
Precipitation is high (80-180cm) compared to other surrounding areas, while snow is considered moderate. Mean temperature compares to Kimberley norm at 17 C in July and -8 C in January.

The ravines are well timbered with spruce, larch, lodgepole pine, alpine fire, white pine and thick underbrush. The upper elevations exhibit much less forest cover.

The property is drained on the west by Perry Creek and on the east by Moyie River. Perry Creek originates from a number of small high elevation lakes on the Grassy Mountain range as well as the Mt. Baldy -Biggatini range. The creek flows northeasterly through the Morgan claim group.

Moyie River originates from lakes on the east side of the Mt. Baldy - Biggatini range and tributaries to the south from the Moyie range. The river flows easterly bypassing the southern edge of the property (See Figure 2).


CHAPLEAU RESOURCES LTD.
PURCELL PROPERTY
LOCATION MAP
FIGURE 1
SCALE
YUKON
TERRITORY
PURCELL PROPERTY



N.T.S. 82E, F

CHAPLEAU RESOURCES LTD.

ACCESS MAP

PURCELL PROPERTY

Fort Steele Mining Division - British Columbia

Figure 2

1.3 Claim Information

The Purcell property is comprised of 49 mineral claims of 414 units. The property is divided up into four blocks, in relation to individual ownership. Neigh-bouring claims are held by Gallant Gold Mines Ltd., Unique Resources, TransArtic Resources, Imperial Metals, Amstar Corp., and Leask Group (Goldpac) (See Figure 3).

1.31 The Morgan Claims

The Morgan claims of Perry Creek comprise of 5 mineral claims of 28 units in the North Block and 22 mineral claims of 144 units in the South Block. The Morgan claims, designated as either RACKI or LDM are all located within the Fort Steele Mining Division of B. C. (See Figure 4 - Claim Map). The claims are owned by L. Morgan of Cranbrook, B. C., F. Fairclough of Cranbrook, B. C. and N. Gass of Calgary, Alta. The property has been optioned by Chapleau Resources Ltd. for a 60% interest.

1.32 The Buck I Claims

The Buck I claims of Moyie River, comprising of 7 contiguous mineral claims of 90 units are all located within the Fort Steele Mining Division of B.C. (See Figure 5 - Claim Map). The claims are wholly owned by D. Melenka of Cranbrook, B.C. The property has been optioned by Chapleau Resources Ltd. for a 60% interest.

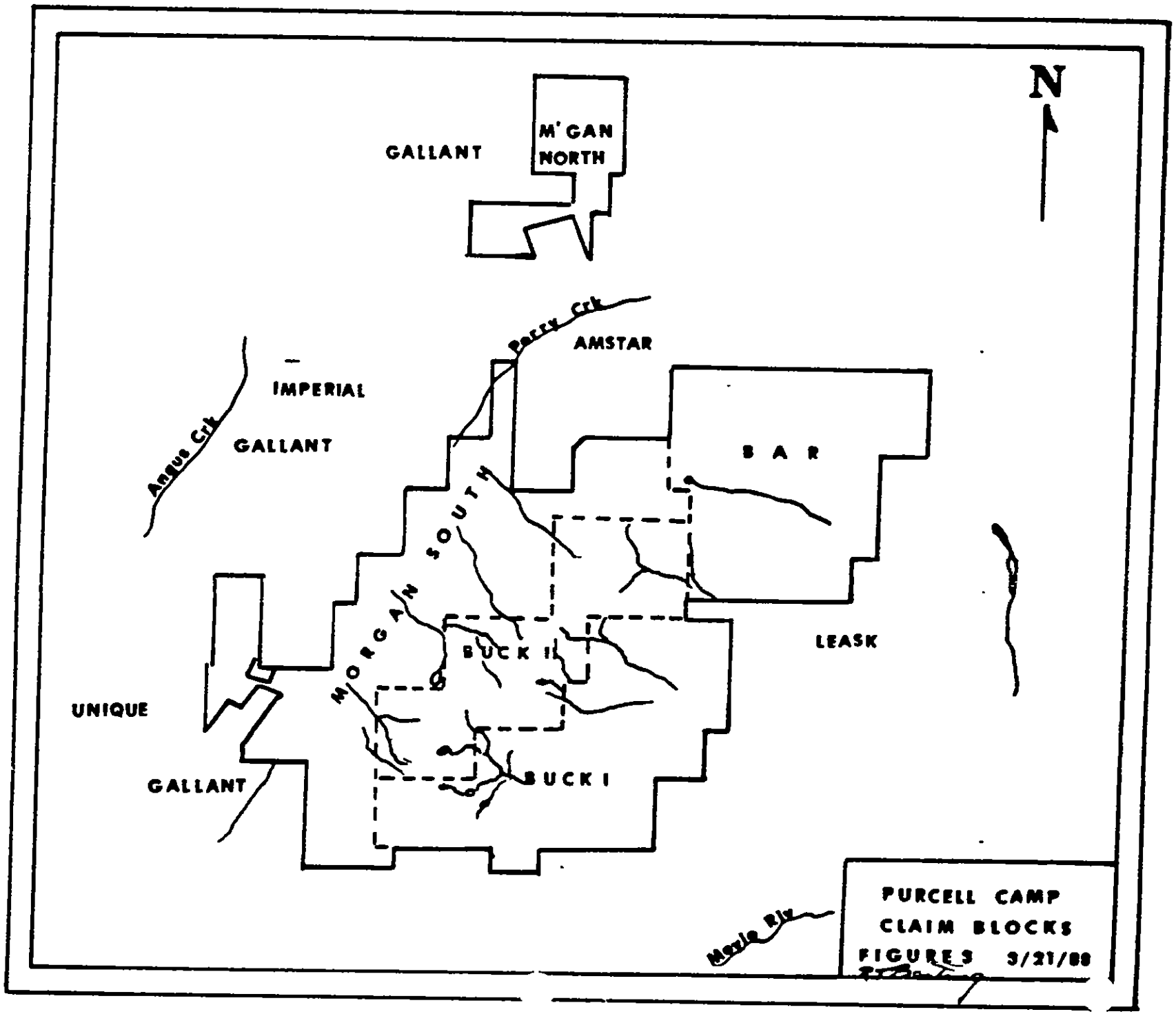
1.33 The Buck II Claims

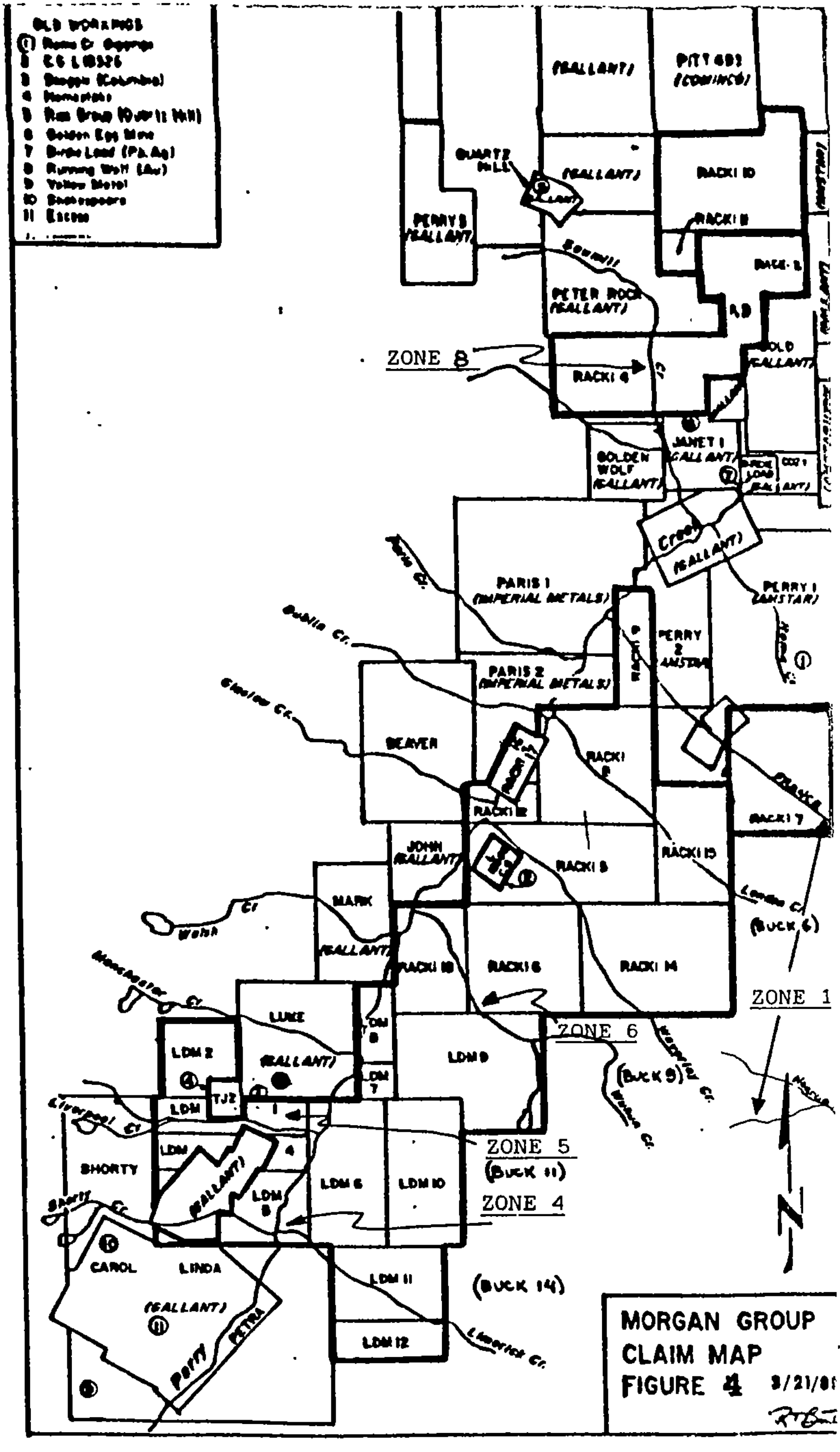
The Buck II claims of Moyie River, comprising of 6 contiguous mineral claims of 62 units are all located within the Fort Steele Mining Division of B. C. (See Figure 5 - Claim Map). The claims are wholly owned by C. Kennedy of Cranbrook, B. C. The property has been optioned by Chapleau Resources Ltd. for a 60% interest.

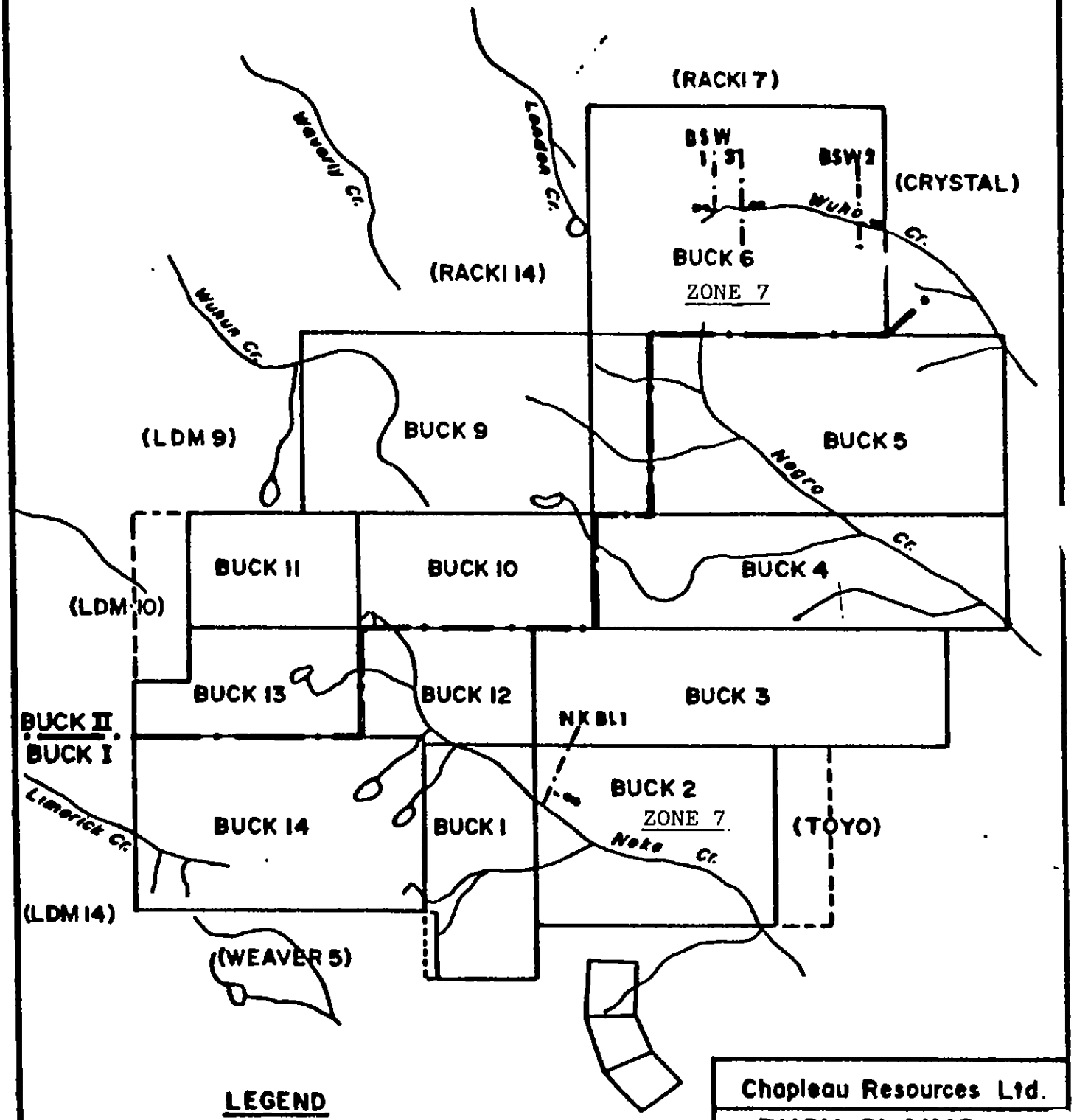
1.34 The Bar Claims

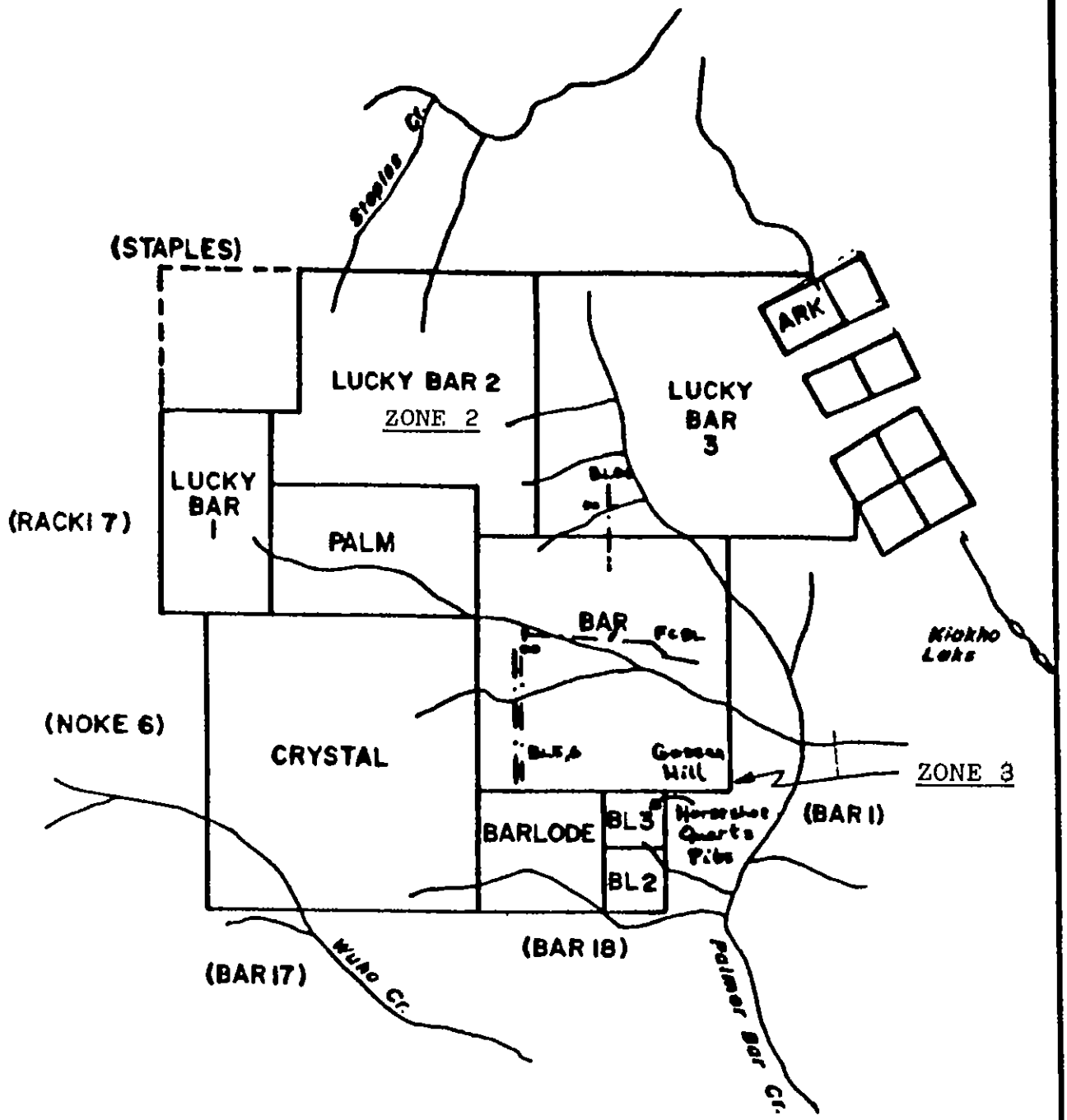
The Bar claims of Moyie River, comprising of 9 contiguous mineral claims of 90 units are all located within the Fort Steele Mining Division of B. C. (See Figure 6 - Claim Map). The claims are wholly owned by Chapleau Resources Ltd.

(See Claim Status Table 1.3)


N
GALLANT
M'GAN NORTH
Berry Crk
AMSTAR
IMPERIAL
Angus Crk
GALLANT
B A R
MORGAN SOUTH
BUCK II
LEASK
UNIQUE
GALLANT
BUCK I
Moyie Riv
PURCELL CAMP
CLAIM BLOCKS
FIGURE 3 3/21/88


OLD WORKINGS
PITT 493
(COMINCO)
(GALLANT)
QUARTZ HILL
RACKI 10
RACKI 11
PERRY 3
(GALLANT)
PETER ROCK
(GALLANT)
ZONE 8
RACKI 4
GOLDEN WOLF
(GALLANT)
JANET 1
(GALLANT)
PARIS 1
(IMPERIAL METALS)
PERRY 1
(ANSTAR)
Dublin Cr.
PARIS 2
(IMPERIAL METALS)
PERRY 2
ANSTAR
BEAVER
RACKI 8
RACKI 12
RACKI 7
JOHN
(GALLANT)
RACKI 5
RACKI 15
MARK
(GALLANT)
Welsh Cr
(BUCK 4)
RACKI 13
RACKI 6
RACKI 14
ZONE 1
Manchester Cr.
LUKE
(GALLANT)
LDM 2
LDM 8
LDM 7
LDM 9
ZONE 6
(BUCK 9)
TJZ
LDM
Liverpool Cr
SHORTY
ZONE 5
(BUCK 11)
LDM 6
LDM 10
LDM 5
(GALLANT)
ZONE 4
CAROL
LINDA
LDM 11
(BUCK 14)
(GALLANT)
PETRA
Perry
LDM 12
Limerick Cr.
N
MORGAN GROUP
CLAIM MAP
FIGURE 4


(RACKI 7)
BSW 1
BSW 2
(CRYSTAL)
BUCK 6
ZONE 7
(RACKI 14)
(LDM 9)
BUCK 9
BUCK 5
BUCK 11
BUCK 10
BUCK 4
(LDM 10)
BUCK 13
BUCK 12
BUCK 3
BUCK II
BUCK I
NK BL1
BUCK 2
ZONE 7
BUCK 14
BUCK 1
(TOYO)
(LDM 14)
(WEAVER 5)
LEGEND
Boundary BUCK I / BUCK II
(LDM 14) Adjacent claims
Baseline
Chapleau Resources Ltd.
BUCK CLAIMS
Scale 1:50000
Date: March/88
Figure 5



LEGEND

(BAR 17) Adjacent claims

—·— Baseline

Chapleau Resources Ltd.

BAR CLAIMS

0 500 1000 1500 2000m

Scale 1:50000

Date: March/88

Figure 6

The following Assessment Report covers the claim blocks of Morgan South Block, Bar, and Buck II. Assessment Reports on the Morgan North Block and Buck I claims were previously submitted of February 19, 1988 and February 20, 1988 respectively.

CLAIM STATUS

TABLE 1.3

MORGAN SOUTH
SOUTH BLOCK
Covers Statement of Work documents 10, 11, 12

CLAIM NAME	REC. #	RECORDED DATE	EXPIRY DATE	# UNITS
LDM 1	751	SEPT 5/79	SEPT. 5/90	4
LDM 2	962	JULY 4/80	JULY 4/90	4
LDM 4	1769	APR. 26/83	APR. 26/90	4
LDM 5	1940	SEPT. 20/83	SEPT. 20/90	8
LDM 6	1954	SEPT. 30/90	SEPT. 30/90	8
LDM 7	2624	MAY 28/86	MAY 28/90	4
LDM 8	2874	APR. 21/87	APR. 21/90	2
LDM 9	2590	MAR. 14/86	MAR. 14/90	12
LDM 10	2591	MAR. 14/86	MAR. 14/90	8
LDM 11	2592	MAR. 14/86	MAR. 14/90	6
LDM 12	2609	APR. 21/86	APR. 21/90	3
RACKI 5	2326	NOV. 26/84	NOV. 26/90	10
RACKI 6	2380	APR. 22/85	APR. 22/90	9
RACKI 9	2450	AUG. 30/85	AUG. 30/90	9
RACKI 12	2593	AUG. 30/85	AUG. 30/90	3
RACKI 16	2648	JULY 2/86	JULY 2/90	2
RACKI 17	2649	JULY 2/86	JULY 2/90	1
RACKI 14	2610	APR. 25/86	APR. 25/89	12
RACKI 15	2611	APR. 25/86	APR. 25/89	6
RACKI 18	2873	APR. 21/87	APR. 21/89	8
Racki 8	2450	aug 30/85	aug 30/90	9

CLAIM STATUS

TABLE 1.3

BAR GROUP

CLAIM NAME	REC. #	REC. DATE	EXPRIY DATE	# UNITS
PALM	1862	JULY 4/83	JULY 4/88	6
BAR	1896	AUG. 12/83	AUG. 12/88	16
BAR LODE	1925	SEPT. 8/83	SEPT. 8/88	4
BAR LODE 2	1926	SEPT. 8/83	SEPT. 8/88	1
BAR LODE 3	1927	SEPT. 8/83	SEPT. 8/88	1
CRYSTAL	2271	SEPT. 24/84	SEPT. 24/88	20
LUCKY BAR 1	3002	OCT. 8/87	OCT. 8/88	4
LUCKY BAR 2	3003	OCT. 8/87	OCT. 8/88	18
LUCKY BAR 3	3004	OCT. 8/87	OCT. 8/88	20
			TOTAL UNITS	90

BUCK GROUP II

BUCK 6	2928	JUNE 15/87	JUNE 15/88	20
BUCK 8	2929	JUNE 15/87	JUNE 15/88	3
BUCK 9	2930	JUNE 15/87	JUNE 15/88	15
BUCK 10	2931	JUNE 15/87	JUNE 15/88	8
BUCK 11	2926	JUNE 12/87	JUNE 12/88	8
BUCK 13	2927	JUNE 12/87	JUNE 12/88	8
			TOTAL UNITS	62

1.4 History

The Perry Creek and Moyie River drainages were the scene of an intense gold rush near the turn of the century, having been the most prolific placer gold producers in the East Kootenay Region. Prospectors of the past explored by driving adits, sinking shafts and digging numerous hand trenches.

In Perry Creek, the Running Wolf mine (Figure 4) on French Creek has over 1000 feet of adits. The Homestake boasts a 560-foot tunnel and a 60-foot shaft. On Rome Creek, thirteen opencuts tested a two foot to 25-foot vein over 1500-feet in length. The Montezuma tunnel at the base of the Perry Creek Falls was driven in over 2000 feet to investigate the old channel.

Old records are scanty, but two bulk samples are on record: The Yellow Metal Group yielded .4 oz/ton Au from a one ton sample and a 3 ton sample from the Homestake gave .3 oz/ton Au. The Shakespeare group reported up to .75 oz/ton Au. The Excess, Rory, Red Mt., O'More, and Evil Genius claims all reported around .5 oz/ton. In 1973, a 1375 ton bulk sample from Quartz Hill ran .26 oz/ton gold, .2 oz/ton silver (Figure 4). Several of the veins carried gold and although no major deposit was discovered, several small shipments are reported.

In the Kiakho Creek area of the Moyie Range, numerous adits and shafts have been located adjacent to the syenite intrusion. Other small diggings of a lesser extent do occur along the diorite sills in various areas over the map area.

Immediatelly south of the property, several placer operations have worked the Moyie River to present day. Two such operations namely Kokanee Placer and Queenstake Resources are successfully producing gold in paying quantities.

1.5 Economic Potential - Geological Interpretation

The mineral deposits of Cranbrook area are many and varied. For purposes of description they have been classified into three main types:
A) replacement deposits in sedimentary rocks, not localized along fractures.
B) deposits associated with Moyie intrusions.
C) veins and replacement deposits localized along fractures.

The Sullivan and North Star deposits are representative of the first type. Deposits of the second type, associated with Moyie intrusions have produced smaller mineral occurrences on a reduced scale due to their erratic distribution. The third type included the more promising prospects in the area. They include the early attempts at gold mining, made at such workings as Anderson, Birdie Load, Rice, Homestake, Running Wolfe in Perry Creek, and Prospector's Dream in the Moyie.

1.6 Summary - Work Programm 1987

In 1987, from May 23 to November 22, field work, at a total cost of $105,000, conducted by Chapleau Resources Ltd., entailed the following:

A. Geological Survey
Detailed geological mapping was completed over the entire Morgan group of claims. The structural and lithological features confirmed previous mapping results of the area. The mapping also unveiled a number of interesting zones worthy of further study

B. Geochemical Survey
Soil, silt, bulk, and rock chip sampling was carried out over the recommended areas that highlighted mineralization and shear zones. A total of 3,256 samples taken over the entire Purcell camp were analyzed for Au, Pb, Cu, Zn, and As. Total soils collected amounted to 2,678 samples from 16 baselines, while silt samples totalled 172 from 7 drainages. Grab samples assayed totalled 390 specimens while 16 bulk samples were taken from 10 drainages.

C. Physical Work
A total of 51 trenches were excavated over anomalies found by the combined assay results of soil sampling and systematic rock chip sampling.

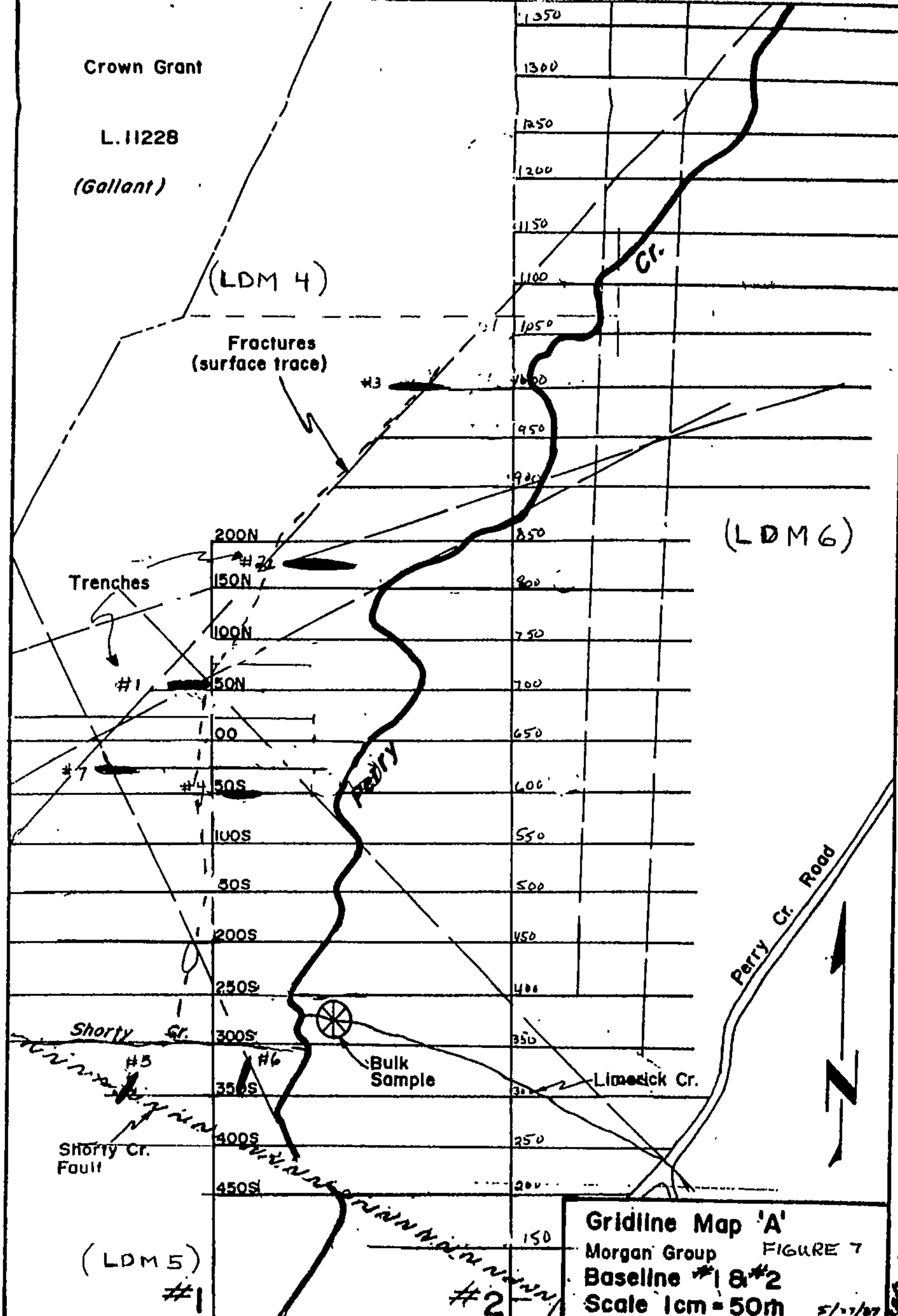
T R E N C H E S

A. MORGAN (all trenches 2m wide)

TRENCH#	DEPTH(m)	LENGTH(m)	FORMATION	AREA
1	7	10	Linonitic clay to blue	BL1 00 + 50N
2	7	7	Kitch.argillite	BL1 175N + 100E
3	7	10	Kit qtz/pyr & hem	BL2 1000N +100W
4	7	6	Aquifer	BL1 50S + 50E
5	4	17	Kitch/aquifer	BL1 350S + 100W
6	3	25	Crest-qtz/red hem	BL1 325S + 25E
7	9	10	Glacial	BL1 30S + 190W
8	6	8	Old Columbia/ Quartz	
9	6	8	Diorite	
10	6	10	Creston/ironstain	
11	8	7	Glacial	
12	8	10	Dark green diorite	
19	8	10	No bedrock	BL4 250E + 150N
20	8	10	Diorite float in glacial	Wuhun
21	8	20	Argillite-qtz/ diorite	Wuhun
22	4	10	Glacial	Wuhun
23	5	12	Kitchener	Wuhun
24	5	15	Kitch/linonite	Wuhun

B. BAR (all trenches 2m wide)

TRENCH#	DEPTH(m)	LENGTH(m)	FORMATION	AREA
1, 2, 3	1	50M x 12M	Creston/qtz veins	ELCR
4	3	5	Quartz/M	ELCR road/ corner
5	2	5	Aldridge	Quartz pit
6	2	5	Aldridge/Dior.	Horseshoe pit
7	8	10	Unconsol.	E.Hor.pit
8	8	15	Creston	W.Hor.pit
9	3	5	Lim/Diorite	Hor/Q road
10	3	5	Lim/Diorite	Hor/Q road
11	3	5	Aldridge	Hor/Q road
12,13,14 & 15	4	10	Unconsol.	
16	3	10	Creston	ELCR road
17	4	6	Quartz/M	
18	1	15	Creston	BL00 + 50N + 700W
20,21,22	5	5	Argillite/ quartzite	Palmer Road
23	1	4	Diorite/hem	


Crown Grant
L. 11228
(Gallant)
(LDM 4)
Fractures
(surface trace)
(LDM6)
Trenches
#1
#2
#3
#4
#5
#6
#7
200N
150N
100N
50N
00
50S
100S
150S
200S
250S
300S
350S
400S
450S
1350
1300
1250
1200
1150
1100
1050
1000
950
900
850
800
750
700
650
600
550
500
450
400
350
250
200
150
Cr.
Perry
Perry Cr. Road
Shorty Cr.
Bulk
Sample
Limerick Cr.
Shorty Cr.
Fault
(LDM 5)
#1
#2
Gridline Map 'A'
Morgan Group
FIGURE 7
Baseline #1 & #2
Scale 1cm = 50m

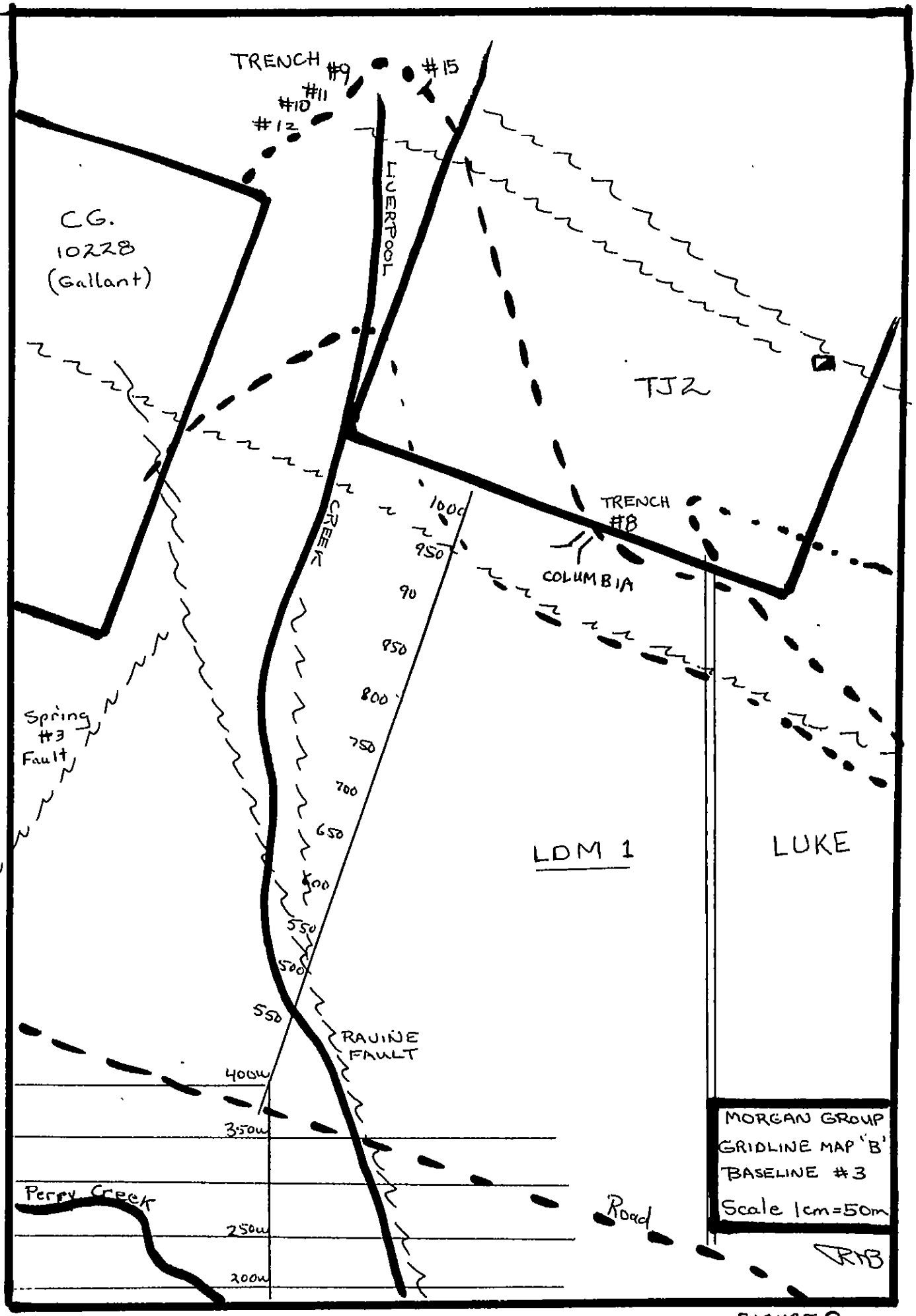

TRENCH #9
#10
#11
#12
#15
LIVERPOOL
CG.
10228
(Gallant)
TJ2
TRENCH
#8
COLUMBIA
CREEK
1000
950
900
850
800
750
700
650
600
550
500
550
RAVINE
FAULT
400W
350W
250W
200W
Spring
#3
Fault
LDM 1
LUKE
Perry Creek
Road
MORGAN GROUP
GRIDLINE MAP 'B'
BASELINE #3
Scale 1cm=50m
RYB

FIGURE 8

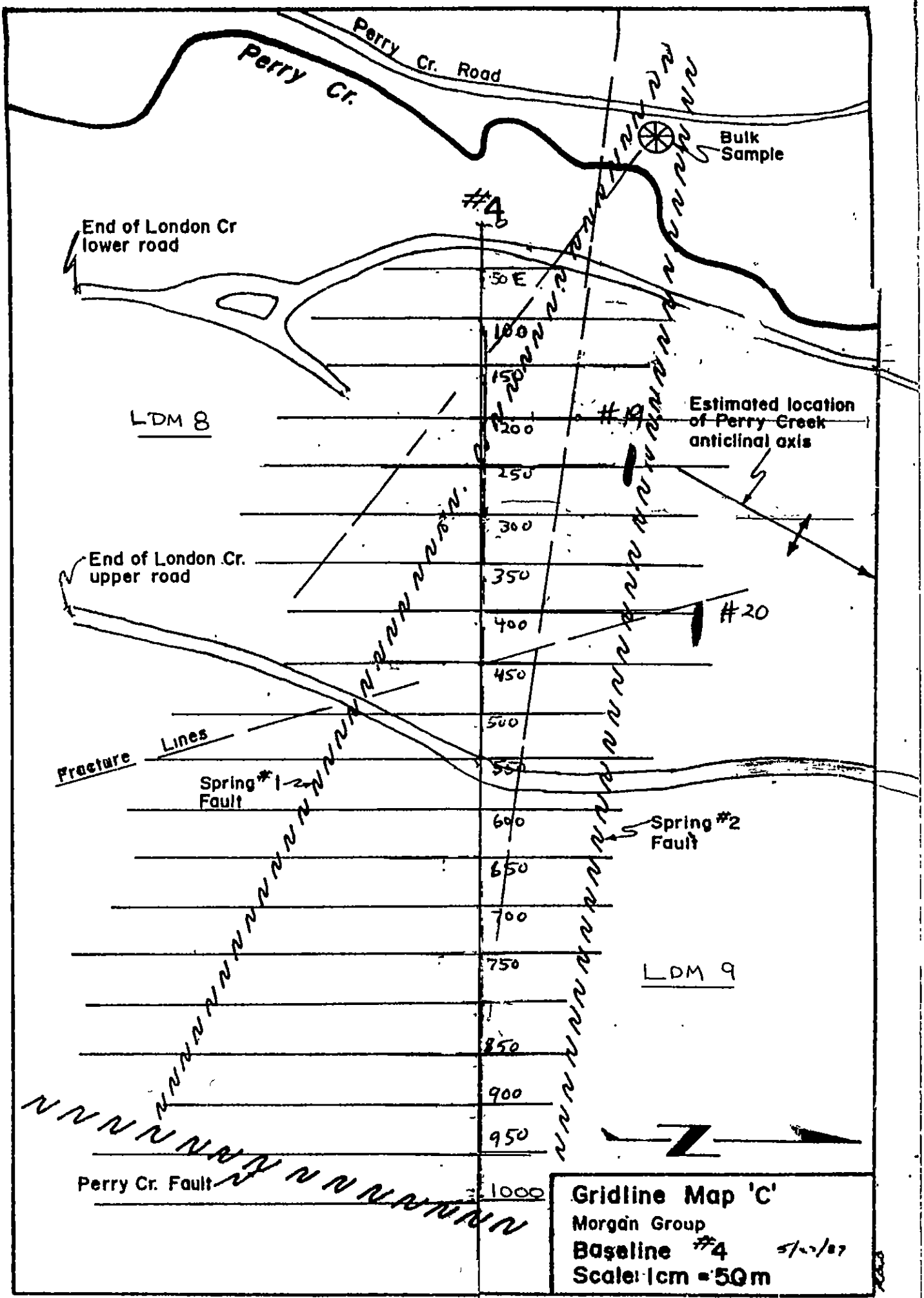

Perry Cr.
Perry Cr. Road
Bulk Sample
#4
End of London Cr lower road
50 E
100
150
LDM 8
#19
Estimated location of Perry Creek anticlinal axis
200
250
300
End of London Cr. upper road
350
400
#20
450
500
Fracture Lines
550
Spring #1 Fault
600
Spring #2 Fault
650
700
750
LDM 9
850
900
950
Perry Cr. Fault
1000
Gridline Map 'C'
Morgan Group
Baseline #4
Scale: 1cm = 50m

FIGURE 9

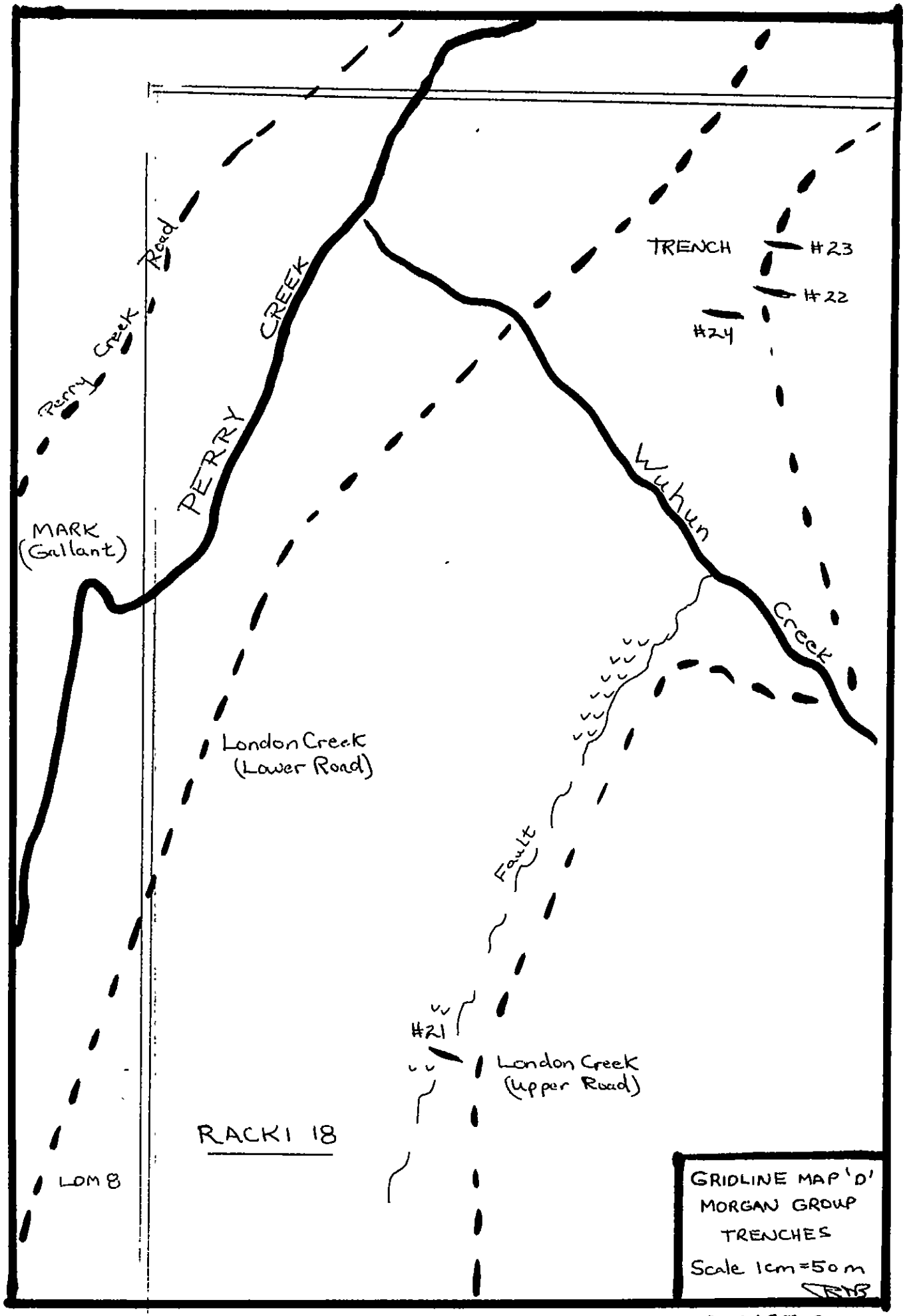

Perry Creek Road
PERRY CREEK
PERRY
TRENCH
#23
#22
#24
Wuhun
Creek
MARK
(Gallant)
London Creek
(Lower Road)
Fault
#21
London Creek
(Upper Road)
RACK 118
LOM 8
GRIDLINE MAP 'D'
MORGAN GROUP
TRENCHES
Scale 1cm=50m

FIGURE 10

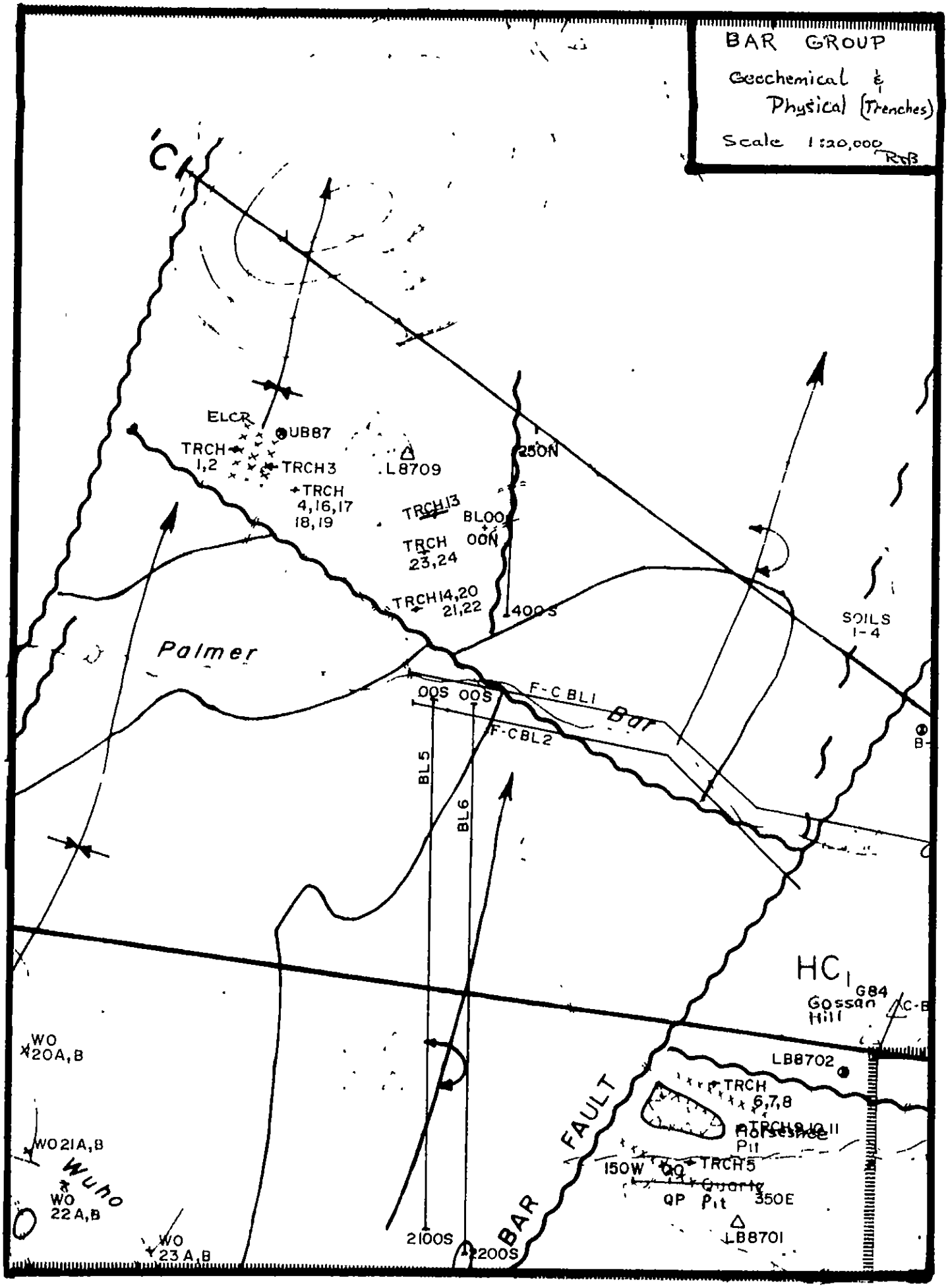

BAR GROUP
Geochemical & Physical (Trenches)
Scale 1:20,000
RdB
ELCR
UB87
TRCH 1,2
TRCH 3
L8709
TRCH 4,16,17 18,19
TRCH 13
BLOO
TRCH 23,24
00N
250N
TRCH 14,20 21,22
400S
SOILS 1-4
Palmer
00S
00S
F-CBL1
F-CBL2
Bar
BL5
BL6
B
HC1
G84
Gossan Hill
C-B
WO 20A,B
LB8702
TRCH 6,7,8
TRCH 9,10,11
Horseshoe Pit
150W
TRCH 5
Quartz
QP Pit
350E
LB8701
WO 21A,B
WO 22A,B
WO 23A,B
2100S
2200S
BAR FAULT

FIGURE 11

2.0 GEOLOGY

The following descriptions of the geology of the Purcell Range and the Perry Creek area are taken from G.S.C. Memoirs by Schofield, Rice and Hamilton.

2.1 Regional & Local Lithology

The Purcell Range is separated from the Selkirk range on the west and from the Rocky Mountain system on the east.

The rocks of the Purcell Range form the western part of the ancient group of sediments deposited in the Rocky Mountain geosyncline. These sediments, called the Purcell series, and of Pre-Cambrian Beltian age, consist of a great thickness of fine grained quartzites, argillaceous quartzites, argillites and limestones, all remarkable for their homogeneity.

In southeastern British Columbia, the Purcell Super group exceeds 10,000 m in thickness. In the vicinity of the Sullivan deposit at Kimberley the lowermost subdivision of the Purcell Supergroup, the Aldridge formation, is a 4,000m thick succession of fine-grained siliclastic rocks. Most of the Aldridge Formation was probably deposited by turbidity currents. East of Kimberley, in the western Rocky Mountains, the oldest rocks are greater than 2,000m thick, fining-upward platformal/deltaic sequence called the Fort Steele Formation. A transitional contact exists between the Fort Steele and the succeeding Aldridge Formation. The Fort Steele Formation is interpreted to be the facies equivalent of the lower part of the Aldridge Formation in the Kimberley area.

The Aldridge Formation is gradationally overlain by up to 1,800m of grey, green and maroon wacke of the tidal flat to deltaic Creston Formation. Conformably overlying the Creston Formation is 1,200m of dominantly platformal dolomite and terrigenous-dolomite admixtures of the Kitchener formation. The Kitchener is in turn overlain by 200 to 400m of green, slightly dolomitic and calcareous fine-grained sedimentary rocks of the Van Creek Formation and up to 500m of andesitic volcanic rocks of the Nicol Creek Formation.

In the Purcell Mountains, about 1,200m of grey to dark grey, dominantly platformal carbonates and fine-grained siliciclastic rocks of the Dutch Creek Formation rest with apparent conformity of the Lower Purcell sequence. The Dutch Creek Formation is overlain by 1,000m of grey, green and maroon wacke and buff orthoquartzite of the Mount Nelson Formation.

Middle Proterozoic gabbros of two ages intrude the Purcell Supergroup in southeastern British Columbia The oldest (1433 + 10 Ma) are sills, slightly discordant sheets and dykes of the Moyie Sills, which are most commonly developed in the lower part of the Aldridge Formation. Gabbro sills are most abundant in the Purcell Mountains, where they attain an aggregate thickness of up to 2,000m. The youngest event of gabbro intrusion is thought to be comagmatic with the volcanics of the Nicol Creek Formation, and is represented by abundant sills in the upper part of the Creston Formation and in the Kitchener and Van Creek Formations. Potassium-argon methods indicate an age of 1075 Ma for the Nicol Creek Formation.

The claim area studied is underlain by Precambrian sedimentary rocks of the Proterozoic age, either of the Kitchener, Creston or Aldridge formations.

In the Perry Creek area, the Creston and Kitchener Formations predominate, and are lenticularly Northeast trending, commonly in a fault contact and bounded to the North and South by the Aldridge Formation. The Aldridge formation outcrops predominantly within an area south and east of the Baldy and Cranbrook faults -on the Moyie River side. Precambrian diorite sills are distributed throughout the map area, in concentrated form along fault zones.

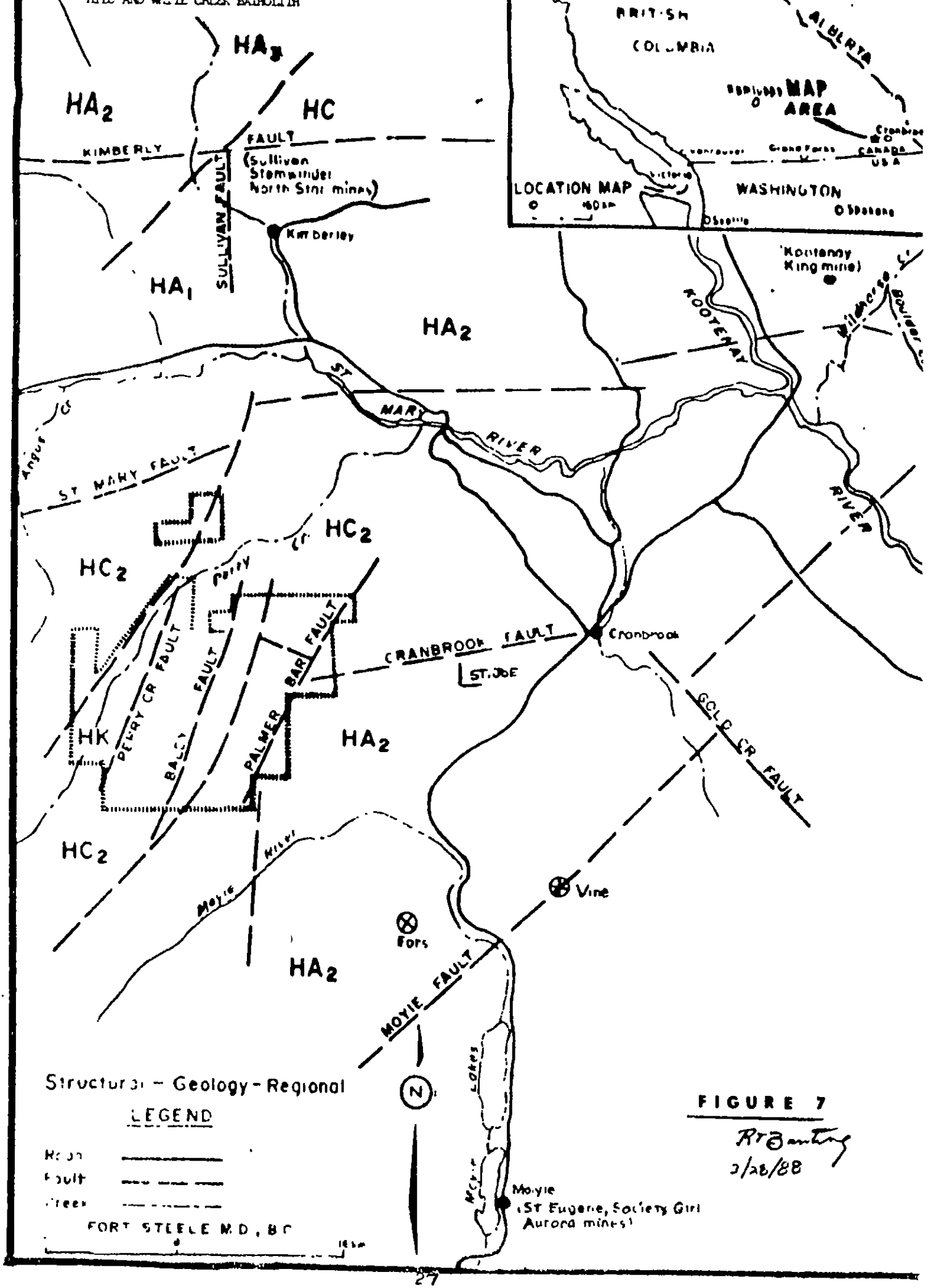


FIGURE 7

RT Bamford
2/28/88

2.2 Regional Mineralization - Sulphide Prospects

The Kimberley area is transected by the right lateral transverse St. Mary's fault. The Sullivan deposit occurs at the boundary between the Lower and Middle Aldridge within the St. Mary's block, with the North Star and Stemwinder deposits located just to the south.

The Sullivan orebody is interpreted as a hydrothermal synsedimentary sulphide lens which formed in a sub-basin on the marine floor during deposition of the Aldridge Formation. It is located directly over and adjacent to conduits through which mineralized fluids passed.

The evidence relating stratiform mineralization to syndepositional faulting is found in the coarse conglomerates which occur close to the lower and middle Aldridge contact. Conglomerate is found on the footwall at this horizon beneath the stratiform Sullivan deposit and below the Hilo mineral showing (north of the Hall Lake fault). The conglomerate underlies a thin stratiform pyrrhotite laminated zone. Pyrrhotite fragments in the conglomerate also occur in the Kootenay King deposit in Boulder Creek (See Figure 7).

Slightly east of the property claim block, on the St. Joe property, quartz veins mineralized with galena, chalcopyrite and arsenopyrite are found cutting the Middle Aldridge. Mineralized conglomerate is also reported to have originated from these workings.

In recent years, exploration of the area has been advanced by developments which include:
- the recognition of laminated markers (varves) and their use in subdivision of Aldridge stratigraphy.
- the recent discovery of the lead-zinc VINE deposit, located 40km. southeast of the Sullivan mine (the deposit crosscuts stratigraphy and appears to be of St. Eugene type).
- the discovery of lead-zinc float boulders at the Fors Grid prospect (40km. south of the Sullivan) leading to exploration of bedding controlled mineralization which might have occurred at a higher level than Sullivan time.
- the discovery of finely laminated pyrrhotite-pyrite beds in silty argillite that may be equivalents of the Sullivan deposit in diamond drilled holes east and southeast of the Sullivan deposit.

2.3 Local Mineralization - Gold Prospect

The following is part of the report submitted by G. Rodgers, Geologist, as mapped over the entire Morgan group of claims (Lithology and Structure in Appendix).

MINERALIZATION

Known mineralization is directly related to faulting and subsequent hydrothermal activity. As previously mentioned under 'Structure', the lensoidal diorite bodies control faulting somewhat by refracting the break around their margins. If the fault strikes through the diorite at a high angle, there is a high probability of void space being created and the void acts as a reservoir. This is due to the competency contrast between the diorite and the surrounding argillites and quartzites. Another potential reservoir for ore bearing fluids is at the locii of intersecting faults.

The majority of known showings and workings occur at similar elevations and along trend with the major longitudinal Perry Creek Fault and Richmond Lake Fault. It is possible that the graben created between these two faults may host undiscovered mineralization if the mineralizing event predates faulting.

Historically, the only showings of merit have been mined for their gold content. The gold has been found associated with quartz veins and shear zones as vein faults, stringers and lenses commonly enriched in iron (pyrite and its oxidation products) and less commonly enriched in lead, zinc and copper and their oxidation products. Chloritization and sericitization has affected the wall rock.

At least two phases of silica flooding have occured The first being milky white quartz which did not bring with it gold, but formed coarsely crystalline lenses, pods and at times huge irregular masses of quartz carrying iron visible at surface as pyrite and specular hematite. A second period of silica deposition occured leaving transparent quartz in interstitial voids and carrying with it gold and sometimes silver, zinc and copper.

The gold was channeled to zones of greater dilatency along strike of the faults where, since all major showings share a similiar elevation, the level of erosion puts these showings in the epithermal model just below the silica capping. Temperatures were probably cool (100 C).

The topographic recession of vein surfaces hints that supergene enrichment has taken place but to what depth is as yet uncertain.

3.0 GEOCHEMISTRY

3.1 Introduction

This report addresses the results of the soil and stream sediment geochemical surveys which were undertaken during the 1987 field season on the Morgan, Buck and Bar Properties, Cranbrook, British Columbia by Chaplean Resources. Exploration targets on the properties, which also occur in similar host lithologies and geologic settings nearby, include sediment-hosted massive-sulphide mineralization similar to that at the Sullivan Mine and precious-metal (± base-metal) quartz veins, perhaps similar to those on the east side of Moyie Lake (the St. Eugene Mine). Possibilities also exist for bulk-tonnage low-grade replacement-type Au deposits in calcareous stratigraphy of the Purcell Supergroup.

Discussions of the results of these surveys are included separately (see references) and are based largely on statistical analyses of the geochemical determinations, and based on maps of the geochemical concentrations. This report summarizes the results and conclusions of these reports and looks at these results in an overall exploration context. Recommendations for further geochemical work on the property during the 1988 field season are also presented.

3.2 Conclusions - Stream Sediments

Stream sediment data from the Morgan, Buck and Bar Properties successfully identifies several stream sediment anomalies. Four of these occur along Wuho Creek and could be related to massive sulphide mineralization. A fifth anomaly occurs near the head of Noke Creek. (Fig.5 p8;s.s.p148,151)

'Anomalous' concentrations of Cu, Pb, Zn, Ag, As ± Au downstream from the anomalous sources indicate that Cu, Pb, Ag, As and Au appear to have shorter dispersion trains than Zn.

The design of the stream sediment survey is clearly inadequate to accurately define drainages 'anomalous' in Au. The sampling density of the survey, the size of the sample collected and analyzed, the sample preparation technique and the analytical procedure also prevent recognition of known metal occurrences. Furthermore, geochemical contrast for most elements is not adequate to define 'anomalies' with confidence.

3.3 Conclusions - Soil Grids

Several 'anomalous' zones are observed on the many soil grids located on these properties. Those possibly related to massive sulphide mineralization occur on Soil Grids BSW-1/BSW-3, BSW-2 of the Buck Property and on the Gossan Hill and Quartz Pit/Horseshoe Soil Grids of the Bar Property. These are generally comprised of a distinct Pb 'anomaly' with 'anomalous' concentrations of Cu, Zn and As nearby. The patterns defined by these 'anomalies' suggest that, like the stream sediments, differential element mobility has acted to create different 'anomaly' geometries and intensities.
(Buck Fig.5 p8;p90) (Bar Fig.6 p9;p114)

Other geochemical 'anomalies' occuring on the properties consist of linear trends defined by one or more element. These occur on the Morgan # 4 Gird, where 'anomalous' As occurs at the intersection of 'anomalous' trends of Cu and Pb, and on the Noke Grid, where 'anomalous' Cu, Pb and As define two E-W oriented trends. These 'anomalies' may be related to sulphide bearing structures underlying the soil grids. These structures may also contain Au. (Morg Fig.10b p29;p49) (Buck Fig.5 p8;p90)

While the general soil survey design appears to be barely adequate to allow definition of massive sulphide targets, the geochemical contrast produced by the sample collection, reduction and analysis procedures is clearly not as high as that generally observed in the stream sediments. This soil survey design seems totally inadequate to locate known sources of Au mineralization, even when samples are collected immediately adjacent to and above prospects. For both massive sulphide and Au vein targets, higher sample densities would allow for greater confidence in anomaly detection.

3.4 Synopsis

In general, element concentrations have large levels of variation across short distances. This is probably due to inadequate sampling technique and probably resulted in the misinterpretation of 'anomalous' signatures and the non-detection of possibly several significant 'anomalous' zones. Sample sizes do not appear to be large enough to allow interpretation of Au concentration distributions. Also, the sampling, perparation and analytical procedures do not produce adequate contrast to allow easy and confident interpretation.

Patterns of concentrations of elements from both stream sediments and soils do show evidence for differential mobility. Specifically, Zn concentrations appear to be dispersed substantial distances from Pb 'anomalous' zones considered to be their source. Concentrations in stream sediments are generally higher than those in soils defining the possible source for the stream sediment 'anomaly'. This may be due to dilution of the soil samples by fine grained glacial till which does not contain significant concentrations of the elements.

Based on the observed patterns of element concentrations on the soil grids and in the stream sediments, there is little evidence to suggest the presence of disseminated, micron-sized Au replacement mineralisation. The low reproducibility of the Au determinations suggests that a large nugget effect affects the results. This nugget effect is probably due to coarse grained native Au particles occurring in the samples, and could not be produced by micron-sized Au grains. The large As 'anomaly' located on the Morgan # 4 Grid is the only evidence which may suggest the presence of fine-grained Au replacement mineralisation, because the equi-dimensional form of this anomaly does not appear to be controlled dominantly by structures.

3.5 Recommendations for 1988

Based on the above observations and conclusions, the following actions are recommended :

- an orient[illegible]rvey of the stream sediment collection method, using one of the obs[illegible]ed anomalies on Wuho Creek as a test case; from this an optimal sa[illegible]pling design and set of analytical procedures can be determined which will give confident detection of anomalies related to both massive-sulphide and Au-quartz vein mineralisation;

- a detailed stream sediment survey of all streams on the property (based on the above described orientation survey) at one sample every 250 m along the stream and above all forks; this should include a multi-element (+ Hg) ICP analysis of the silt fraction plus a non-magnetic and magnetic heavy liquid separation of up to 5 kg of fine grained stream sediment; analysis of Au should be by fire assay pre-concentration and atomic absorption; a barite specific determination should be included; this survey should take place immediately after spring run-off to avoid hydraulic re-distribution of heavy minerals;

- anomalous zones discovered by the 1987 stream sediment survey should be confirmed with this detailed stream sediment survey; bank sampling of the suspected anomalous zones should be done in conjunction with this survey to further constrain the location of the sources for these stream sediment 'anomalies';

- all confirmed stream sediment anomalies should be intensively prospected and covered with an extensive soil grid over the most likely locations; sample spacing should not be larger than 25 m; analysis of the -80 mesh fraction should include an ICP multi-element (+ Hg) determination plus Au by fire assay pre-concentration and atomic absorption finish; a barite specific analysis should also be included if found to be of value in the stream sediment and soil orientation (see below) surveys;

- an orientation survey of the soil method for both massive sulphide and Au vein targets, using several of the known showings as test cases; from this an optimal sampling design and set of analytical procedures can be determined which will give confident detection of anomal[illegible] related to massive-sulphide and Au-quartz vein mineralization;

- before the commencement of any soil survey, an assessment of the glacial overburden and its effect on the detection of geochemical anomalies must be undertaken; this should include a study of the soil and overburden stratigraphy and provenence;

- future soil grids should be located in known prospect areas where mineralisation has been observed or as indicated by regional stream

sediment and bank sample results; these should cover large areas to ensure that ore-related geochemical signatures are not missed due to glacial dispersion; small numbers of samples in soil grids are not recommended because little information regarding the relative concentration can be obtained;

- future soil grids should have nodes at 25 m or less to allow enough sample to represent possible'anomalous' zones; analysis of the appropriate sample size fraction should include an ICP multi-element (+ Hg) determination plus Au by fire assay pre-concentration and atomic absorption finish; a barite specific analysis should also be included if found to be of value in defining stream sediment and soil 'anomalies' related to massive sulphide mineralization;

- geophysical methods should be employed over known Au vein showings and in several of the massive sulphide target areas; if useful, these should be integrated into the exploration procedure and used to the best advantage.

4.0 CONCLUSION

It is the expressed opinion of the writer that the structural and lithological geology of the area contrasted with the findings of the 1987 exploration program indicate that the possibility exists for a potential mineral orebody on the Chapleau Property.

With respect to the Morgan property, Mr. Rodgers has presented two theories supporting potential gold deposits in the Perry Creek area.

One theory offers the prospect of gold discovery in quartz veins similar to those mined at the turn of the century. It is hypothesized "that detrital gold was formed at a certain horizon in the Aldridge, by the weathering of a proximal archean source. Subsequent faulting and hydrothermal activity scavanged this gold near to fault zones and redeposited it as lode gold in vein faults. Most showings of merit in the area occur at elevations between 5000 and 6000 feet. All showings consist of vein faults displaying silica deposition along with iron oxides and gold of a nature typical to epithermal veins".
The recently discovered stock work of veins found in the BUCK and BAR properties, typically similar to the old Perry and Moyie workings show promise, with visible gold and assays up to .6 oz/ton.

"If the hypothesis of detrital gold at a certain horizon can be substantiated, then a target area for a large tonnage gold deposit then exists at depth in the valley bottom between the Perry Creek and Richmond Lake faults. Diamond drill holes in the middle of the Kitchener argillites would test the validity of this theory." The common features in the description of a replacement type orebody can be traced to the subject property, as evidenced by:
a) a driving mechanism such as a tertiary felsic magma body in the area of the headwaters of France Creek; where syenite float was discovered on both sides of the ridge.
b) steeply dipping shear zones such as the Cranbrook fault, whereby the magnetic anomalies in preferential alignment with the intrusions of Kiakho Lake and Grassy Mountain suggest a continuation of the fault to the west.

c) associative elements such as arsenic found as an anomalous zone on the Morgan #4 Grid (See Geochemical Synopsis - P.31).
d) high fineness gold particles as found in the stream silt samples and placer operations in the Moyie and Perry Creeks.

In contrast to the potential for a gold deposit, there is also a strong indication that the possiblity exists for a sulphide deposit on the BAR and BUCK group of claims. This supposition is evidenced by the structural features of the Palmer Bar region, the favourable stratigraphy of the underlying formations and the anomolous geochemical values obtained from the area drainages (See Geochemical - Conclusion - P.30).

5.0 RECOMMENDATIONS

The following recommendations are offered as part of the Phase II Work Program for 1988.

Zone 1, 2, 3

- Detailed sediment survey of all streams on the western ridge betwen France and Strong Creeks and on the eastern ridge between Palmer Bar and Noke Creeks.
- Reconnaissance geological mapping and prospecting over the BUCK and BAR claims to confirm stream sediment anomalies.
- Geophysical surveys (EM & IP) on the Buck and Bar to map Au vein systems such as the ELCR, Horseshoe and Gossan Hill as well as several of the massive sulphide target areas.
- Selection of drill target areas to;
  a) test known gold bearing veins to depth
  b) substantiate the existence of a felsic intrusion
  c) determine the source for the stream sediment and soil anomalies related to massive sulphide mineralization.

Zone 4, 5, 6

Detailed (10m) soil sample program integrated with prospecting in order to delimit the anomalies already determined, thereby more accurately locating the diamond drill hole targets in Shorty Creek, Liverpool Creek, and Wuhun Creek areas.

Phase III

Contingent upon the results of Phase II, Phase III will be an extension of the 1988 drill program. The estimated cost of this phase is $400,000.00.

STATEMENT OF QUALIFICATION

I, ROBERT T. BANTING, certify that:

1. I am a Consulting Mining Engineer, of R.T.Banting Engineering Ltd., with offices at 1470 Theatre Road, Cranbrook,B.C.

2. I am a graduate of Michigan Technological University with a degree in Mining Engineering (B.Sc.)

3. I have practised my profession of engineering in British Columbia, Manitoba, Ontario and Quebec for a total of 14 years. As a consultant, I have been engaged in exploration and engineering activities for four years.

4. I am a member in good standing of the Association of Professional Engineers of British Columbia.

June 10, 1988

Geologist – G. Rodgers

I, GLEN M. RODGERS, certify that:

1. I am a graduate Geological Engineer from the University of Manitoba (1977).

2. I have practised the profession of Geologist for the last eleven years in B.C., the Yukon and Alaska.

3. I have gained experience with; epithermal silver and gold vein deposits, gold placer deposits, stratiform lead/zinc/silver deposits, uranium deposits, evaporite and other industrial mineral deposits. I have gained experience in all facets of mineral exploration techniques.

4. I am a fellow in good standing of the Geological Association of Canada, and am eligible for membership with the Association of Professional Engineers of British Columbia.

March 14, 1988

R.T.Banting PEng.,
c/o Chapleau Resources Ltd.,
2100 - 4th St. N., V1C 4X9

Dear Mr. Banting,

This letter is to authorize you to use all or any part of the geological reports and maps that I have submitted on the Morgan claims, Perry Creek for the years 1987 and 1988.

- Yours Truly,

(G.M. Rodgers, geologist)

Certificate of Qualifications

I, Clifford R. Stanley, of 3503 W. 20th Ave., Vancouver, British Columbia, hereby certify that :

1. I am a graduate of Dartmouth College (1980) and the University of British Columbia (1984) and hold an A.B. in Earth Science and an M.Sc. in Geological Science.
2. I have been employed in the mineral exploration field in permanant and consulting roles since 1980 as an exploration geochemist and economic geologist.
3. I am currently a principle of CyberQuest Exploration Systems, Ltd. and in their employ.
4. The opinions, conclusions and recommendations contained herein are based solely on an examination of geochemical data provided to me by Chapleau Resources, Ltd. of Cranbrook, British Columbia.
5. I own no direct, indirect or contingent interests in the subject property or shares or securities in Chapleau Resources, Ltd.
6. This report and its contents may be used by Chapleau Resources, Ltd. for all corporate purposes, including public financing.

Clifford R. Stanley

Dated in Vancouver, B.C. this 18th day of March, 1988.

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A P P E N D I X I

I. Morgan Geology - G. Rodgers

LITHOLOGY

The following formations are found in the claim area and are described here in order of oldest to youngest.

ALDRIDGE FORMATION

The Aldridge Formation (Ha) is commonly divided into 3 parts: upper, middle and lower. The Sullivan Mine is found at the lower-middle Aldridge contact. As the divisions between the Aldridge sections are difficult to distinguish and vary both across and along strike, the Aldridge formation as a whole is described here.

The Aldridge formation is the lowest member of the Purcell Group and as close as can be determined, it is proterozoic in age. Total formational thickness probably exceeds 15,000 feet (4570m). The Aldridge consists of grey-brown-rusty weathering, very fine grained, thin bedded quarzite, sericitic siltstone and argillaceous quartzite. The quartzites are commonly thin bedded, purple-grey-white-black. Pure argillite or slate forms a minor constituent. Primary depositional features such as scour and fill or cross-bedding are common.

The quartzite beds locally are thick bedded-massive The interbedded argillite is thinly laminated and occasionally finely laminated. Other primary depositional features such as dessication cracks, ripple marks, etc. are not common.

The Aldridge Formation occurs north of the St. Mary Fault and west of the Racki 10 claim. It is in fault contact with the Creston Formation to the south. Near this fault contact, the Aldridge Formation is locally sheared, faulted and folded.

CRESTON FORMATION

A gradational contact over 150m separates the under lying Aldridge Formation from the Creston Formation The Creston Formation is primarily composed of greyish argillaceous quartzites. Minor purer quartzites and argillites form interbeds of up to 0.3 m thick. The formation as a whole resembles the Aldridge, but the purer quartzites are more abundant and are light grey on fresh fracture. The Creston Formation varies in total thickness between 4,000 ft. (1220 m) and 6500 ft. (1980 m). It has been divided into 3 sections:

- the Lower Creston (HC1) consists of black-grey argillites with interlaminated, lighter-coloured argillaceous quartzite. These laminae, pinch, and swell along strike. Other minor constituents are: very fine grained, sericitized, siliceous siltstones (which are dark coloured and weather rusty brown) and green argillaceous quartzites (found near the top of the Lower Creston Formation). Features suggesting shallow water deposition such as mud cracks, ripple marks, cross beds, and slumping are common in the Lower Creston.
- the Middle Creston Formation (HC2) is not as argillaceous as the Lower Creston Formation and constists primarily of grey-green-purple argillaceous quartzite. These predominantly purple quartzites form thick beds (0.3 to 3 m) and resemble limestone from a distance.
- the Upper Creston (HC3) consists of grey-green argillaceous quartzite with thick interbeds of purple argillite. Near the top of this unit, white-grey-purple argillaceous quartzites are most common with fine laminae of a dark purple quartzite being it's most distinctive feature. This banding effect is due to seasonal changes in depositional climate. Shallow water depositional features are common.

KITCHENER FORMATION

The Kitchener Formation (Hk) lies unconformably upon the underlying Creston Formation. This formation consists of calcareous and argillaceous quartzites, quartzites and limestones. It weathers to a yellow-brown-grey. Leaching of calcareous minerals often leaves linear depressions on weathered surfaces. The main constituents are; very fine grained rusty-red-brown weathering quartzites and siltstones; fine grained buff dolomite; black limestone; impure limestones and argillites. The argillites are characteristically dark-light green in the lower part and black-grey-white in the upper part. The carbonate content, thin bedding and preferential weathering of carbonate are all features distinguishing this formation from others. Total formational thickness is thought to exceed 4,500 ft (1370 m).

Above the Kitchener Formation conformably sits the Siyeh Formation the contact of which is marked by the presence of igneous breccia and tuff. The Siyeh Formation is not found in the map area.

MOYIE SILLS

The Moyie Sills are also known as the Purcell Sills Purcell Intrusives, Moyie Intrusives and St. Mary's Sills. These are sill like intrusions that range in thickness from 10 metres to 300 metres. The sills were injected when the strata was still horizontal as they have subsequently undergone the same tectonism as the surrounding rock. They are most commonly found in the Aldridge Formation but also penetrate through to other formations from horizon to horizon and can pinch out along strike. They are termed diorites, but range in composition from gabbro to granite. Commonly a contact metamorphic effect with the country rock is evidenced by albite and biotite addition. These sills represent intrusions from a single intercrustal source of acid magma. The age of these intrusive rocks has not been accurately determined, but definitely post dates that of the Kitchener Formation and are possibly of late Proterozoic age.

The diorite sills are found on the property as lenticular bodies up to 400 ft. (122 m) thick. They follow the general strike of the bedding (N 30' E) and are found in Perry Creek mostly at lower elevations.

The diorite sills are found on the property as lenticular bodies up to 1,000 ft. (300 m) thick. Two smaller sills are found on the Racki 10 claim and a very large diorite sill is found to touch on the south-east corner of the Racki 4 claim.

CRANBROOK FORMATION

The Cranbrook Formation forms a very small percentage of the total study area. It consists of light brown-tan-grey siltsones, argillites and argillaceous quartzites. It is known to be lower Cambrian in age and contacts unconformably with the Kitchener Formation in the south-east corner of the map area.

STRUCTURE

Broad scale, regional folding is not apparent in the map area. Smaller scale deformations are occasionally found, but can usually be attributed to drag folding due to nearby fault action or to post emplacement movement of nearby diorite bodies. The Moyie Intrusives, because of their competency contrast with the surrounding argillites have served to locally control fault direction. Low angle faults tend to refract around the perimeters of the lenticular diorite bodies. Higher angle faults tend to break right through the diorite lenses creating offsets. When proximal to major faulting, the sills often exhibit a reoriented foliation parallel with that major deformational event. If the deformation has been intense, then the foliation permeates the entire sill. If the deformation has not been so strong, then foliation occurs only near to and parallel with the contacts.

Major longitudinal faulting has been confirmed in map area. Faults known as the Perry Creek Faults, Richmond Lake Fault and Baldy Fault strike north-east across the map area. These faults predate the many less intense transverse faults which break orthogonal to the major faulting and generally strike north-east. These transverse faults were probably responsible for localizing the main drainages that empty into Perry Creek.

Divergent bedding in the bottom of Perry Creek near Shorty Creek previously mapped as the "Perry Creek Anticline" does not (in this authors' opinion) exist. A package of rock thought to be Upper Creston in stratigraphy is exposed here at it's contact with the overlying Kitchener Formation. It is this obscure unconformable contact that gives the impression of anticunal folding.

The Perry Creek Fault has been mapped on the basis of lithological and bedding plane changes, while foliation remains constant on either side of the fault. For most of its length in the claim area, the Perry Creek Fault separates Middle Creston to the east from Kitchener to the west.

On the west side of the Perry Creek Valley, the Richmond Lake Fault divides Middle Creston to the west from Kitchener on the east.

The St. Mary's Fault separates Upper Aldridge sediments to the north from Middle Creston to the south It also divides a diorite body on the Quartz Hill claim at Upper Sawmill Creek.

In the vicinity of Paris Creek, these two major faults converge. Between the two, a graben exists with unknown total displacement. It is suspected that the Perry Creek Fault exceeds that of the Richmond Lake Fault.

A PRELIMINARY REPORT ON THE 1987 SOIL GEOCHEMISTRY OF THE MORGAN PROPERTY, CRANBROOK, BRITISH COLUMBIA

John Harrop Clifford R. Stanley

CyberQuest Exploration Systems, Ltd.
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March 18, 1988

1 Introduction

This report addresses the results of the soil geochemical surveys which were undertaken during the 1987 field season on the Morgan Property, Cranbrook, British Columbia by Chaplean Resources. Exploration targets on the property, which also occur in similar host lithologies and geologic settings nearby, include sediment-hosted massive-sulphide mineralization similar to that at the Sullivan Mine and precious-metal (± base-metal) quartz veins, perhaps similar to those on the east side of Moyie Lake (the St. Eugene Mine). Possibilities also exist for bulk-tonnage low-grade replacement-type Au deposits in calcareous stratigraphy of the Purcell Supergroup. A discussion of the results of these surveys is included based largely on a statistical analysis of the geochemical determinations, and based on maps of the geochemical concentrations. Recommendations for further geochemical work on the property are also presented.

Sampling was carried out by Chapleau Resources' employees during August through September 1987 and all geochemical element determinations were made by Rossbacher Laboratory, Ltd. Samples consisted of 0.5 kg of fine grained stream sediment material collected from the active bed of the streams. These were air dried and seived to -80 mesh. A 0.5 gram sub-sample was digested with a 3:1 nitric:perchloric acid attack and analysed using atomic absorption spectrometry. Elements determined include Cu, Ag, Pb and As for all four soil grids and Zn analyses for some samples on the Morgan Grid # 4. Gold was determined by a similar method, except that 10 grams of -80 mesh material was subjected to an aqua regia digestion followed by pre-concentration in MIBK. No standards were included in the analytical batches so data quality could not be determined; however, several sample sites have duplicate samples allowing a rough assessment of sample site reproducibility.

Four soil grids (Morgan-1 through Morgan-4) were sampled and maps presenting the sample locations and geochemical concentrations for these samples are presented in Appendix A. The grids are, for the most part, oriented N-S with 50 m between lines and 50 m between sample sites (with some exceptions in areas of interest, where the sample spacing was reduced to 25 m between lines and 25 m between samples). The grids are irregular because numerous grid nodes could not be sampled.

2 Statistical Analysis

2.1 Threshold Selection

A histogram and probability plot analysis (Sinclair 1974, 1976; Stanley 1987) of the geochemical concentrations was made on all of the data from the four soil grids. Output of these statistical results are presented in Appendix B.

Results indicate that all elements have subdued abundances and exhibit positively skewed distributions. Low element abundances are common in Belt-Purcell soils, even over sulphide mineralization, because of the overall low absorptive capacity of the soils (low

clay and Fe-oxy-hydroxide mineral content; Stanley 1984). This allows the easy leaching of the soluble base metals from the soils, despite high element concentrations in the source-bearing subjacent bedrock. The positive skewness of the element distributions probably results from a large number of 'background' concentrations and a small number of 'highly anomalous' concentrations which may possibly be related to economic mineralisation.

2.1.1 Copper

The Cu distribution appears to have a bimodal, log-normal form. One mode consisting of a large group of samples, exhibiting what are interpreted to be 'background' Cu concentrations and a mean of 7 ppm. Assymetric ±1 standard deviation values about this mean are 13 and 4 ppm, respectively. A second group of samples of higher abundance can be distingushed from this 'background' group. These concentrations are interpreted to be 'anomalous' and range up to 124 ppm Cu. This second group of 'anomalous' samples may be related to lithologies containing elevated Cu concentrations or to Cu-sulphide-bearing strata. A threshold which discriminates the 'background' and 'anomalous' sample groups occurs at approximately 35 ppm.

2.1.2 Silver

Silver concentrations are positively skewed, of generally low abundance and have a maximum value of 1.2 ppm. The low number of reported concentration values does not allow rigorous statistical evaluation of the Ag data. The overall extremely low Ag abundances typical of B-horizon soil samples collected over Belt-Purcell strata (Stanley 1984) and observed on the Morgan Property cannot be considered to be indicative of the absence of economic mineralisation. As a result, concentrations in excess of (an abritrarily chosen) 3× the detection limit of 0.2 ppm are considered to be 'anomalous' because they have the highest probaility of resulting from nearby Ag-bearing sulphides which have undergone extreme weathering and depletion of the Ag.

2.1.3 Lead

Lead concentrations also exhibit a positive skew and have an overall low abundance (with a maximum concentration of 258). Lead appears to be log-normally distributed with minor negative deviation in lower concentrations (interpreted to be due to truncation of the distribution by the detection limit). The unimodal distribution does not suggest the existance of a distinguishable 'anomalous' group of samples; consequently, a threshold has been chosen at the 'mean plus 2 standard deviations' (28 ppm) to define the 'anomalous' samples.

2.1.4 Gold

Gold exhibits an obvious bimodal distribution consisting of samples with 'background' concentrations of up to 5 ppb and samples with 'anomalous' concentrations above 5 ppb.

While probably distributed poisson, this distribution can be approximated by a mixture of two log-normal distributions. Since gold probably exists largely in its native form in these soils, the 'background' sample group can be considered to be those samples where the analysed sub-sample contained no gold nuggets (and thus a concentration of 5 ppb). The 'anomalous' group of samples can be considered to consist of those samples where the analyzed sub-sample contained at least one grain of gold. Unfortunately, any 0.5 kg sample may contain numerous gold nuggets while a 10 gram sub-sample from it **may contain none**. As a result, given the small amount of sample collected and the small amount of material which was actually analyzed, samples from the 'background' group may contain significant concentrations of Au contained in nuggets not included in the 10 gram analyzed sub-sample. Nonetheless, a threshold of 10 ppb distinguishes the 'background' from the 'anomalous' samples.

2.1.5 Arsenic

Arsenic exhibits a trimodal log-normal distribution and relatively high overall concentrations. The lowest mode consists of detection limit values of 2 ppm and is probably a result of data truncation by the detection limit and the recoding of below detection limit concentrations to the detection limit value. The middle mode has a mean of 10 ppm (± 1 standard deviation values of 16 and 6 ppm, respectively), is probably more representative of the 'background' As concentration. The highest mode, with a mean of 45 ppm (assymetric $\pm$ 1 standard deviation values of 72 and 28 ppm, respectively) is probably 'anomalous' and may be related to sulphide-bearing strata. A threshold of 22 ppm separates the 'anomalous' and 'background' sample groups.

3 Interpretation

Interpretive symbolic maps of only those elements which showed what are considered to be significant patterns are presented in Appendix C. Circles have radii which are proportional to the sample concentrations. Heavy circles represent those samples which recorded a concentration in excess of 2× the largest circle size indicated. These plots are discussed in five sections related to each of the five soil grid areas (the Morgan # 3 grid has been divided into East and West sections relflecting the different base line orientation).

3.1 Morgan Grid # 1 (Locations p.29)

Gold is the only element discussed on Morgan Grid # 1. Incoherent patterns of concentrations are observed for all other elements. Gold is no exception. Trends of relatively high Au concentrations can neither be considered coherent nor significant. Two of the three sets of duplicate samples report the lowest **and** some of the highest concentrations observed on the soil grid. With such little consistency on a single site basis, no confidence can be

placed in any interpretation. However, one item which can be concluded is that a significant 'nugget' effect exists which has not been eliminated or reduced through deliberate sampling and analysis procedures.

3.2 Morgan Grid # 2

On Morgan Grid # 2, relatively high concentrations of Cu appear to define a NE-SW trend at the north end of the grid. This trend appears to be situated on top of and roughly parallel to an inferred photo-linear observed on air-photos of this area. This trend could represent a major fracture system across the soil grid which contains Cu-sulphide minerals. Alternatively,this trend directly overlies Perry Creek and could represent the different source material sampled (stream alluvium vs. colluvial/residual soil developed on glacial till) at these locations. Whether the Cu geochemical trend is due to an underlying Cu-bearing vein filling fracture, to hydromorphic concentration of Cu along a fracture system by fault gouge clays and Fe-oxy-hydroxides, or to a different source material is not known. Several relatively high cxoncentrations of Au in samples along this trend may suggest the former and later hypotheses as more reasonable conjectures.

3.3 Morgan Grid # 3 (East)

The eastern portion of the Morgan # 3 soil grid contains several important trends in Cu, Au and As. Relatively high Cu concentrations define three possible trends : one NE-SW trend in the NW corner of the grid, a parallel trend roughly bisecting the soil grid, and a NW-SE trend bisecting the NE quadrant of the soil grid. Obvious conclusions drawn from these observations are that they represent fracture zones related to possible Cu-bearing vein mineralization. Unfortunately, the hydromorphic concentration hypothesis described above cannot be ruled out.

High concentrations of Au appear to define a trend parallel to the NE-SW Cu trend which bisects the soil grid. Unfortunately, these high values are widely separated and several samples with 5 ppb Au concentrations lie in between, lending little significance to this interpretation.

Relatively high As concentrations appear to define two areas of interest in the NE and center portions of the grid, but on closer inspection, the boundaries of these areas are sharp and oriented exactly N-S. **This suggests that there is a systematic sampling error.** Patterns of this type suggest that at least two of the samplers (each sampling adjacent lines) had sampling techniques which produced systematically different 'background' As concentrations. The centrally located region of high As concentrations does appear to have a NE-SW elongation direction which does parallel one of the observed Cu trends.

No geochemical 'anomaly' can be interpreted over the Ravine Fault lying along Perry Creek.

3.4 Morgan Grid # 3 (West)

Geochemical concentrations on the western portion of the Morgan # 3 soil grid also show interesting patterns. Relatively high concentrations of Cu occur in the NW corner of the grid, and an area of elevated Pb 'background' concentrations occur in the SE quadrant. The Cu 'anomaly' may be related to a N-S trending inferred fault projected beneath the 'anomaly'. The Pb pattern is more enigmatic, roughly straddling Liverpool Creek. The highly 'anomalous' Pb concentration in the SE corner of the grid occurs immediately adjacent to Liverpool Creek and may represent hydromorphic or detrital reconcentration of lead at that site by stream waters.

Gold concentrations define two 'anomalous' trends, both of which may not be significant. A set of 5 samples roughly parallel to the N edge of the grid, and a perpendicularly oriented set of 3 samples in the SE corner of the grid define two trends. The causes of these trends are not hypothesized. The high Au concentrations occurring in the SW corner of the grid may, like lead represent detrital reconcentration of Au by Liverpool Creek.

Arsenic cencentration are 'anomalous' in the north-central protion of the grid in a NW-SE orientation; however, no explanation for this pattern can be offered.

3.5 Morgan Grid # 4

Geochemical patterns on the Morgan # 4 soil grid show the most coherent signature of all the soil grids sampled on the Morgan Property. The Cu and Pb concentrations define a NW-SE 'anomalous' trend which roughly bisects the soil grid and which is most developed on the wetern half of the soil grid. This trend is parallel and slightly north of the Spring # 1 Fault and appears to be related to it. The offset may represent glacial dispersion or a slight inaccuracy in the placement of the fault on the map.

Lead also defines a trend on the western half of the grid which is perpendicular to and which intersects this Cu and Pb trend. It extends to the northern edge of the grid and is roughly parallel to the mapped location of the Perry Creek anticlinal axis.

An As 'anomaly' centered over the intersection of these two trends in the western portion of the grid is the most distinct 'anomaly' on the property. These 'highly anomalous' As concentrations may be caused by hydrothermal mineralization centered at the intersection of these two, possibly fracture related, geochemical trends.

Gold concentrations on this soil grid are mostly at the detection limit and do not form any discernable trend.

4 Conclusions and Recommendations

Based on the results of the 1987 soil surveys on the Morgan Property, several conclusions may be drawn :

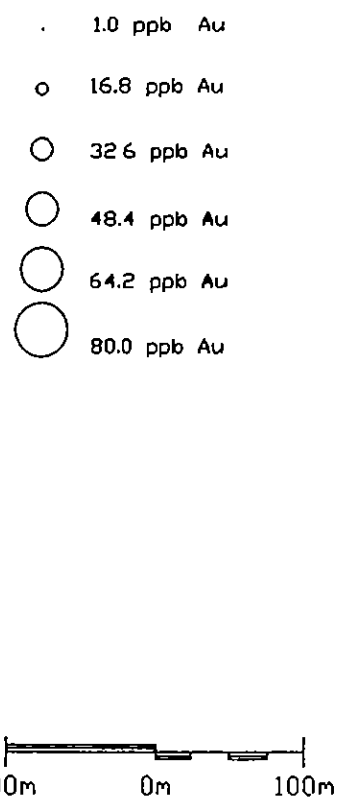
- the method of collection of the soil samples was not consistently identical across the grids;

- the sample size, preparation and analytical method for Au is inadequate to detect, with confidence, the presence of Au in the soils;
- the preparation and analytical method for the base metals does not produce adequate contrast to confidently define samples as 'anomalous';
- several distinct geochemical anomalies occur on the soil grids in the form of trends which parallel known structures (Cu and Au(?) on Grid # 2; Cu and Au(?) on Grid # 3 (East); Cu and Pb on Grid # 4);
- an 'anomalous' zone of As occurs on Grid # 4 at the intersection of the two Pb trends; it may be related to possible intense fracturing which could occur at the intersection of two fault structures;
- given the sample density of the grids (50 m) and the observed width of the quartz veins which have been mined historically (generally less than 3 m), only a small probability (¡ 10 %) exists of sampling material derived directly from the vein material;
- no information about the effect of the glacial cover can be discerned from the data; this till could be exotic and totally unrelated to the lithologies and possible mineralization which it covers.

Based on the above conclusions, the following actions are recommended :

- an orientation survey of the soil method, using one of the known showings as a test case; from this an optimal sampling design and set of analytical procedures can be determined which will give confident detection of anomalies related to massive-sulphide, Au replacement and Au-quartz vein mineralisation;
- before the commencement of any soil survey, an assessment of the glacial overburden and its effect on the detection of geochemical anomalies **must** be undertaken; this should include a study of the soil and overburden stratigraphy **and** provenence;
- future soil grids should be located in known prospect areas where mineralisation **has been observed** or as indicated by regional stream sediment results; these should cover large areas to ensure that ore-related geochemical signatures are not missed due to glacial dispersion; small numbers of samples in soil grids are not recommended because little information regarding the relative concentration can be obtained;

- future soil grids should have nodes at 25 m or less if indicated by an orientation survey; analysis of the appropriate fraction should include an ICP multi-element (+ Hg) determination plus Au by fire assay pre-concentration and atomic absorption finish; a barite specific analysis should also be included if found to be of value in the stream sediment and soil orientation surveys.



Chapleau Resources Ltd

Morgan 1 Grid
Soil Geochemistry - Gold
(symbolic posting)

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Chapleau Resources Ltd

Morgan 2 Grid
Soil Geochemistry - Gold
(symbolic posting)

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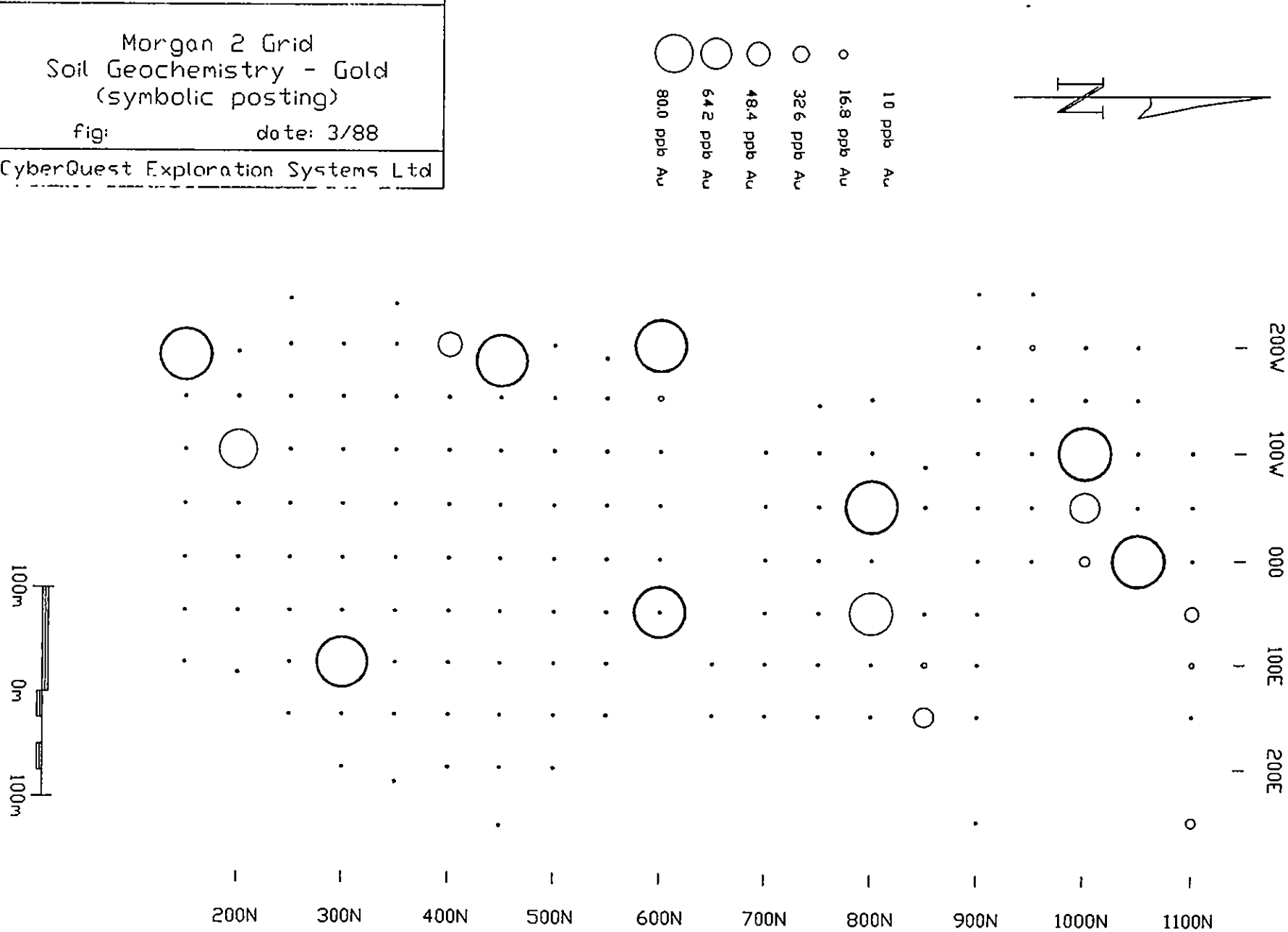

Chapleau Resources Ltd

Morgan 2 Grid
Soil Geochemistry - Silver
(symbolic posting)

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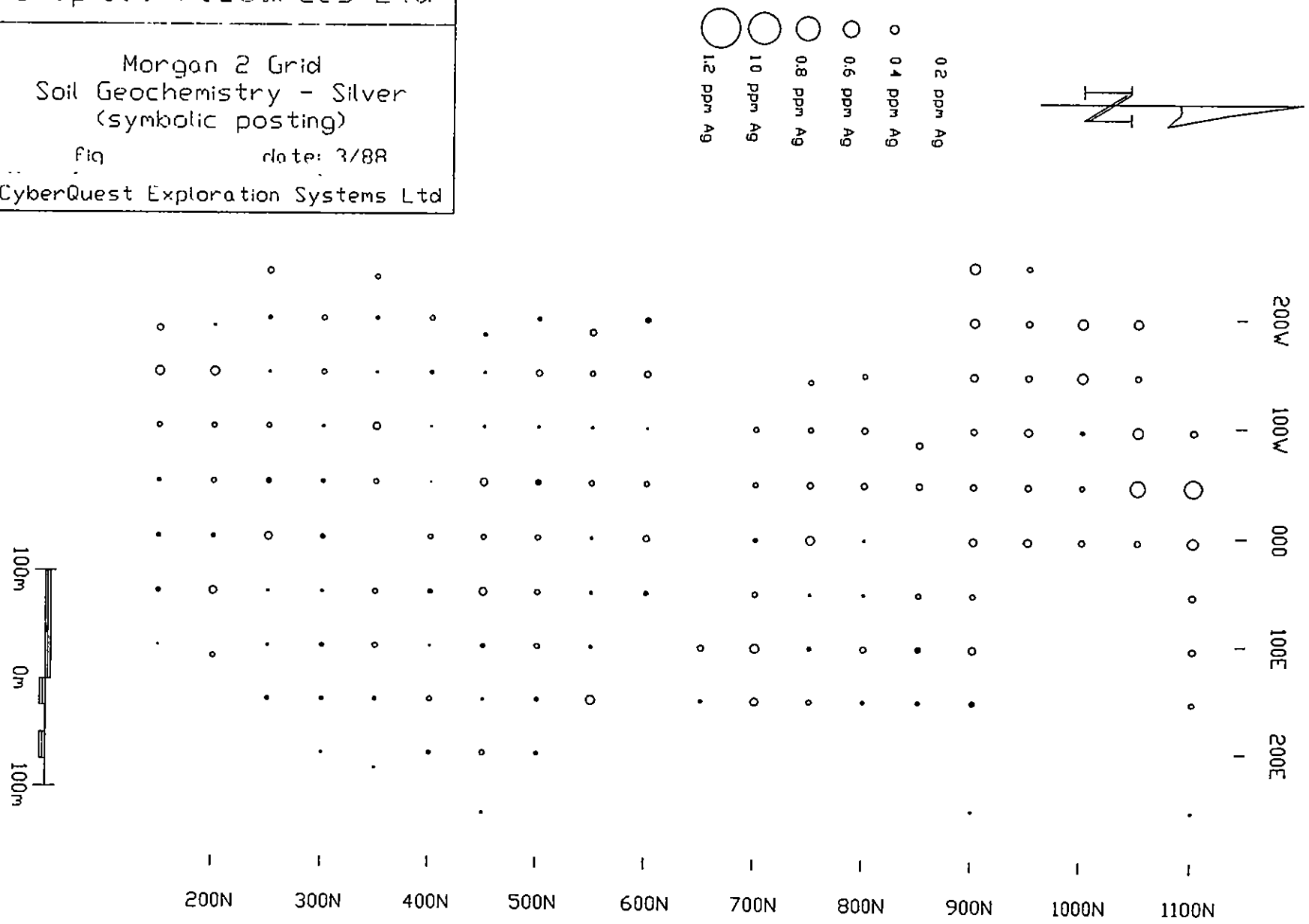

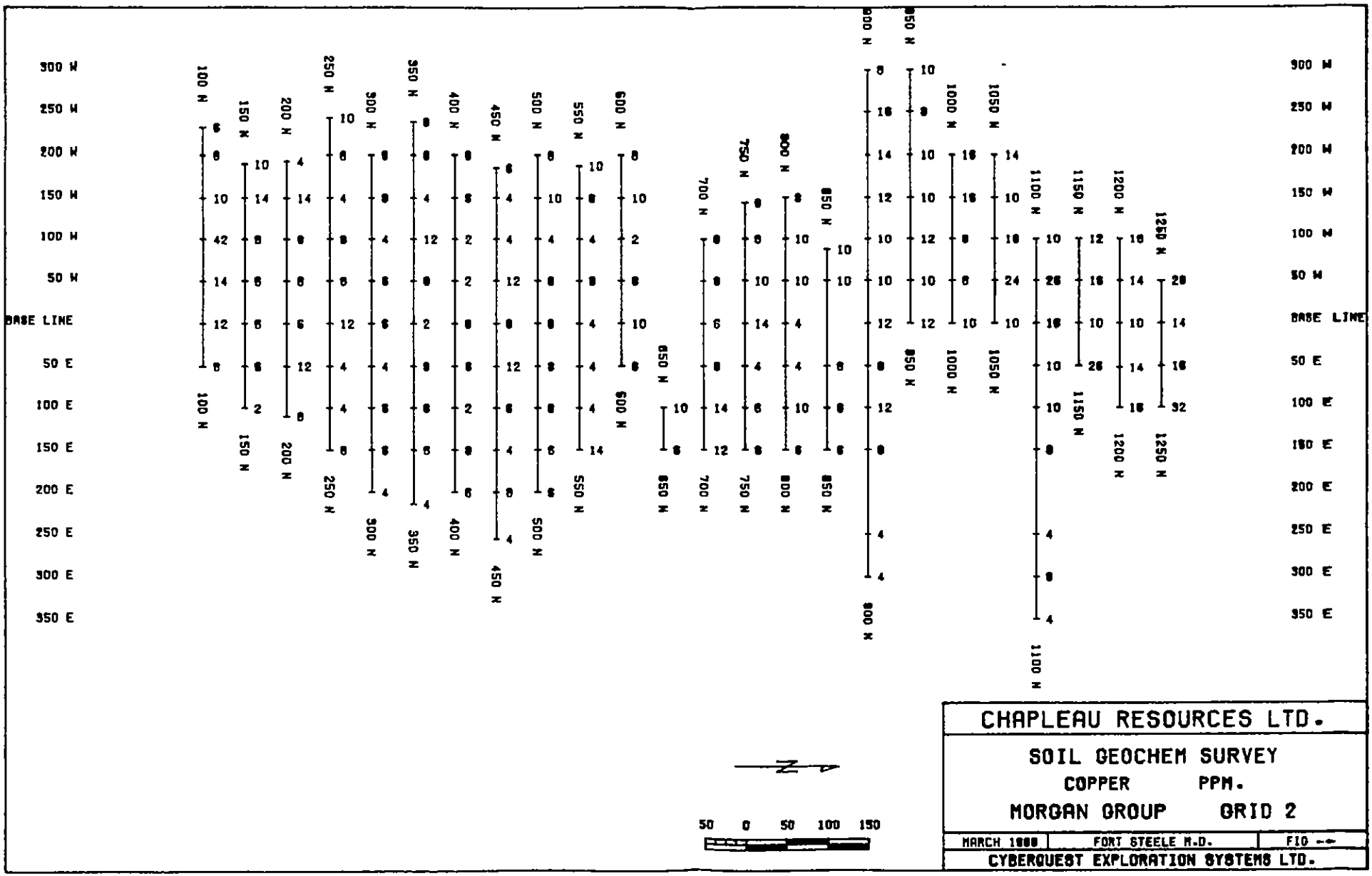
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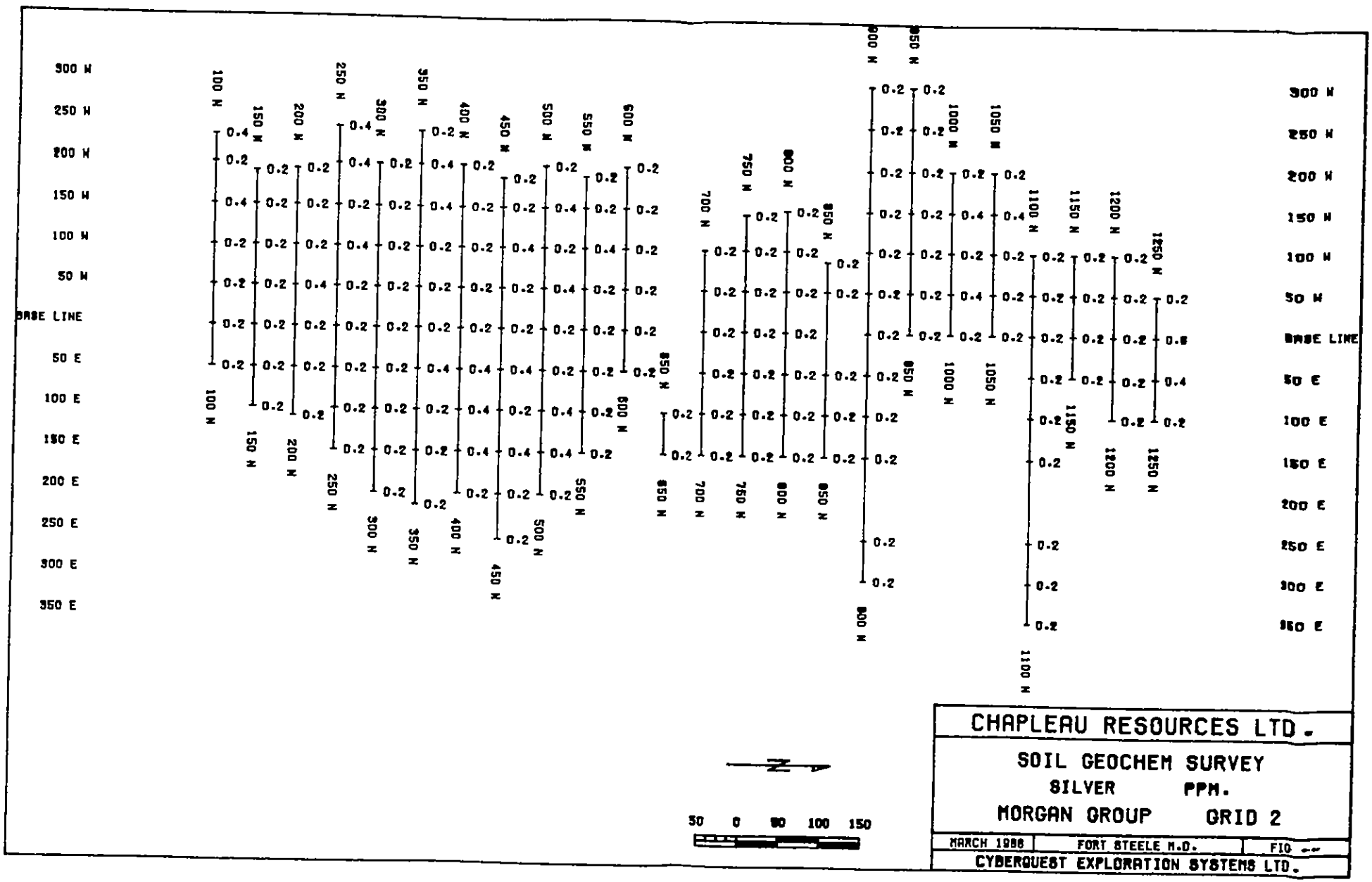
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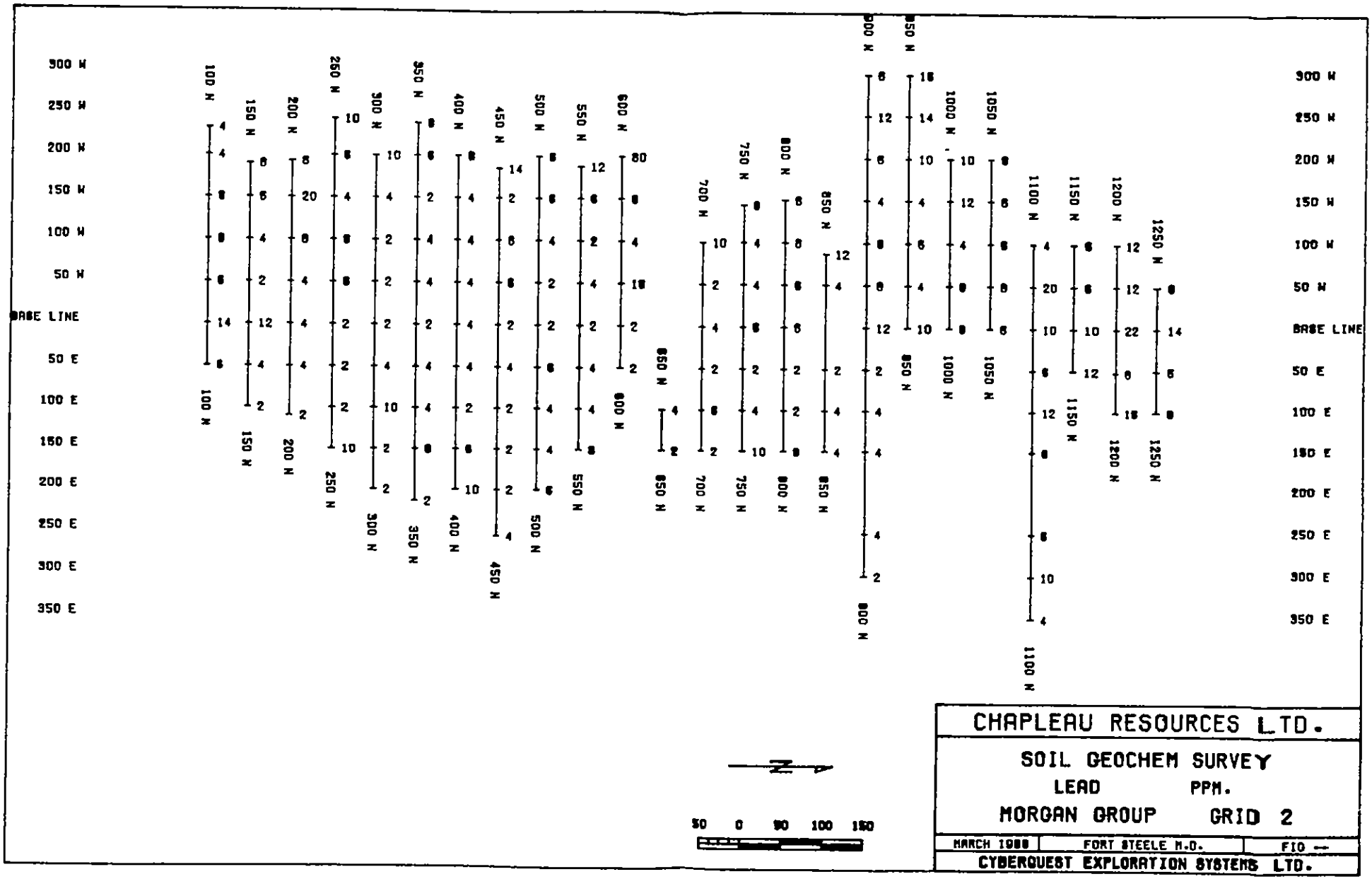
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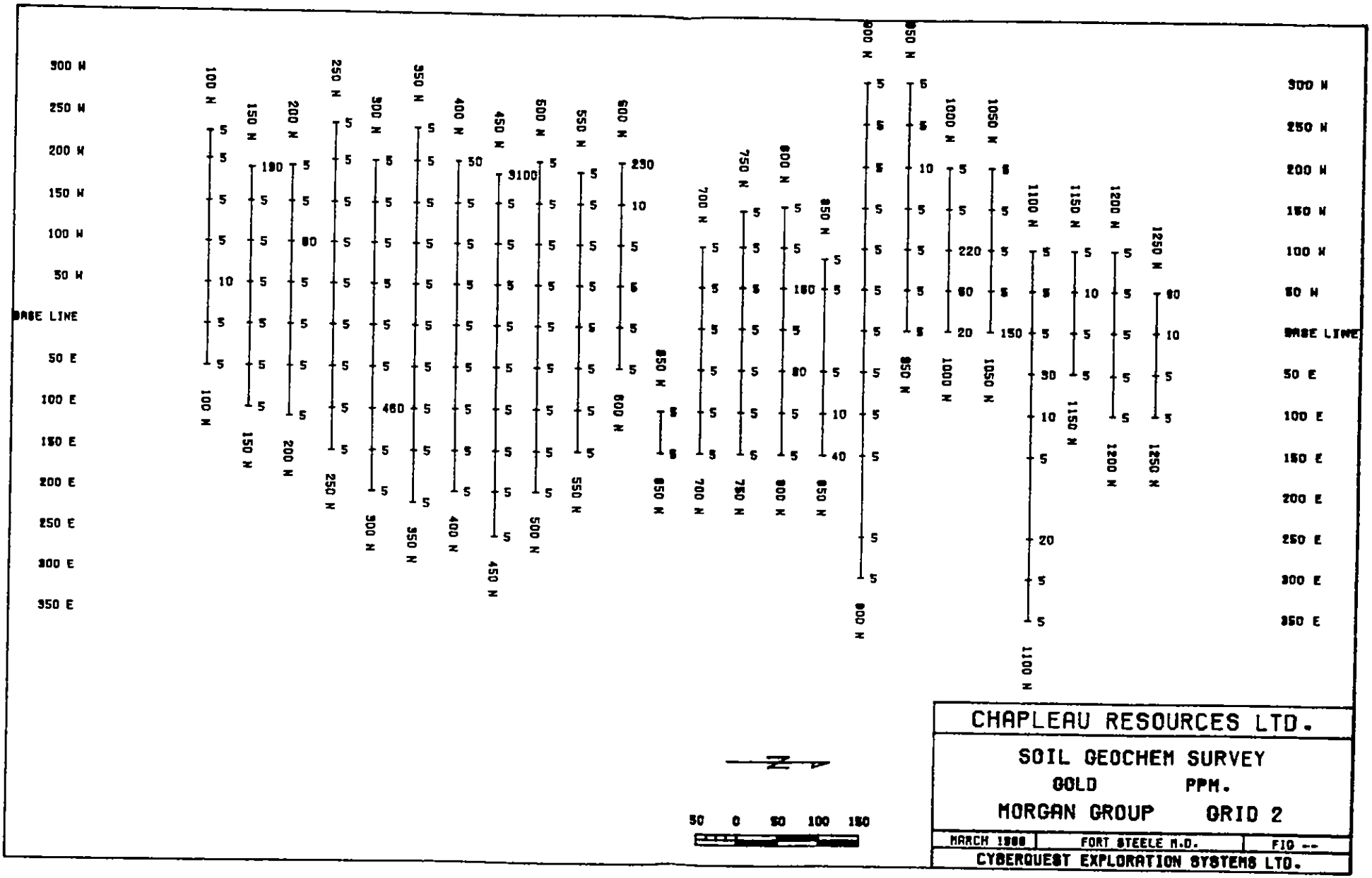
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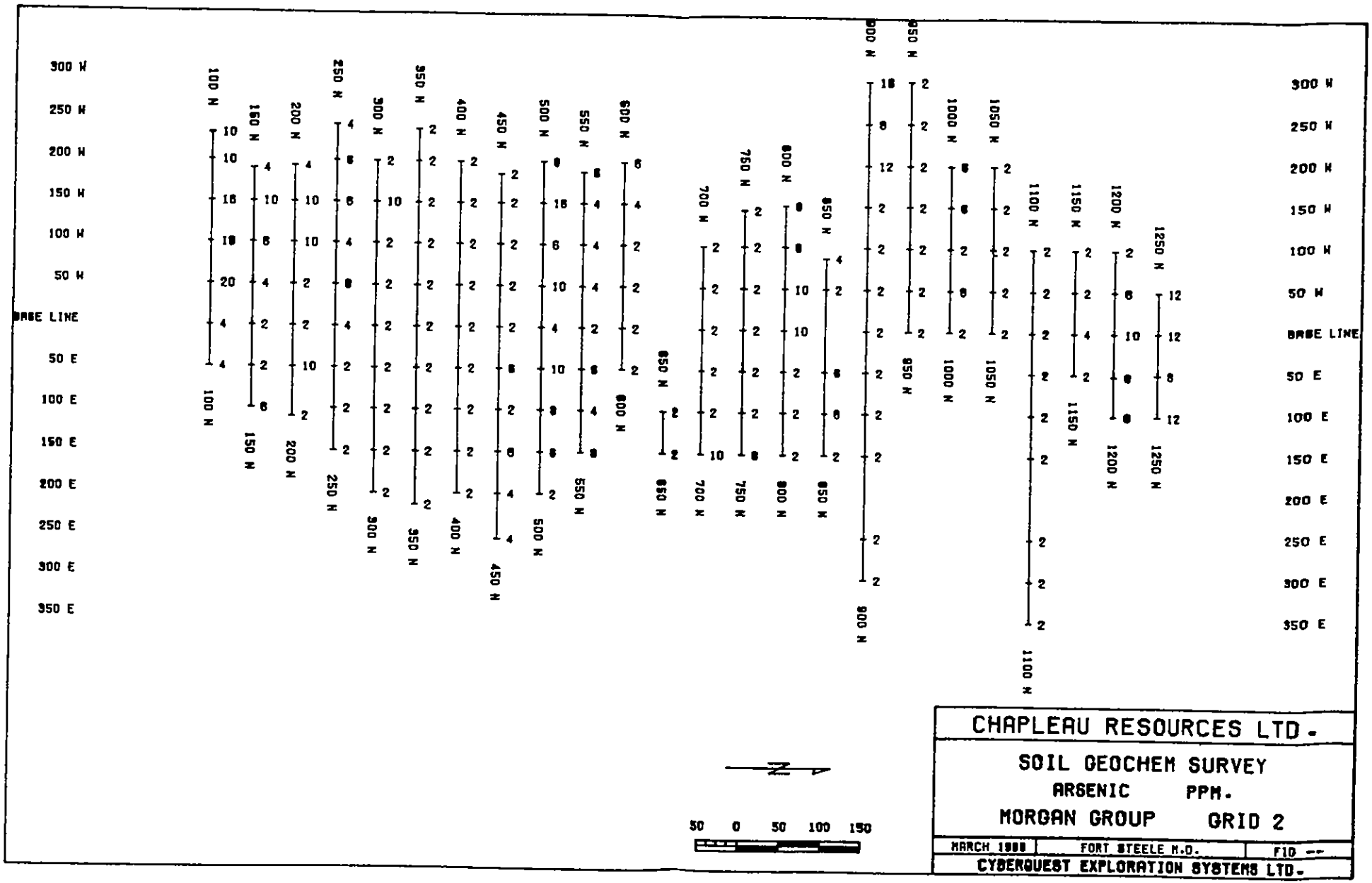
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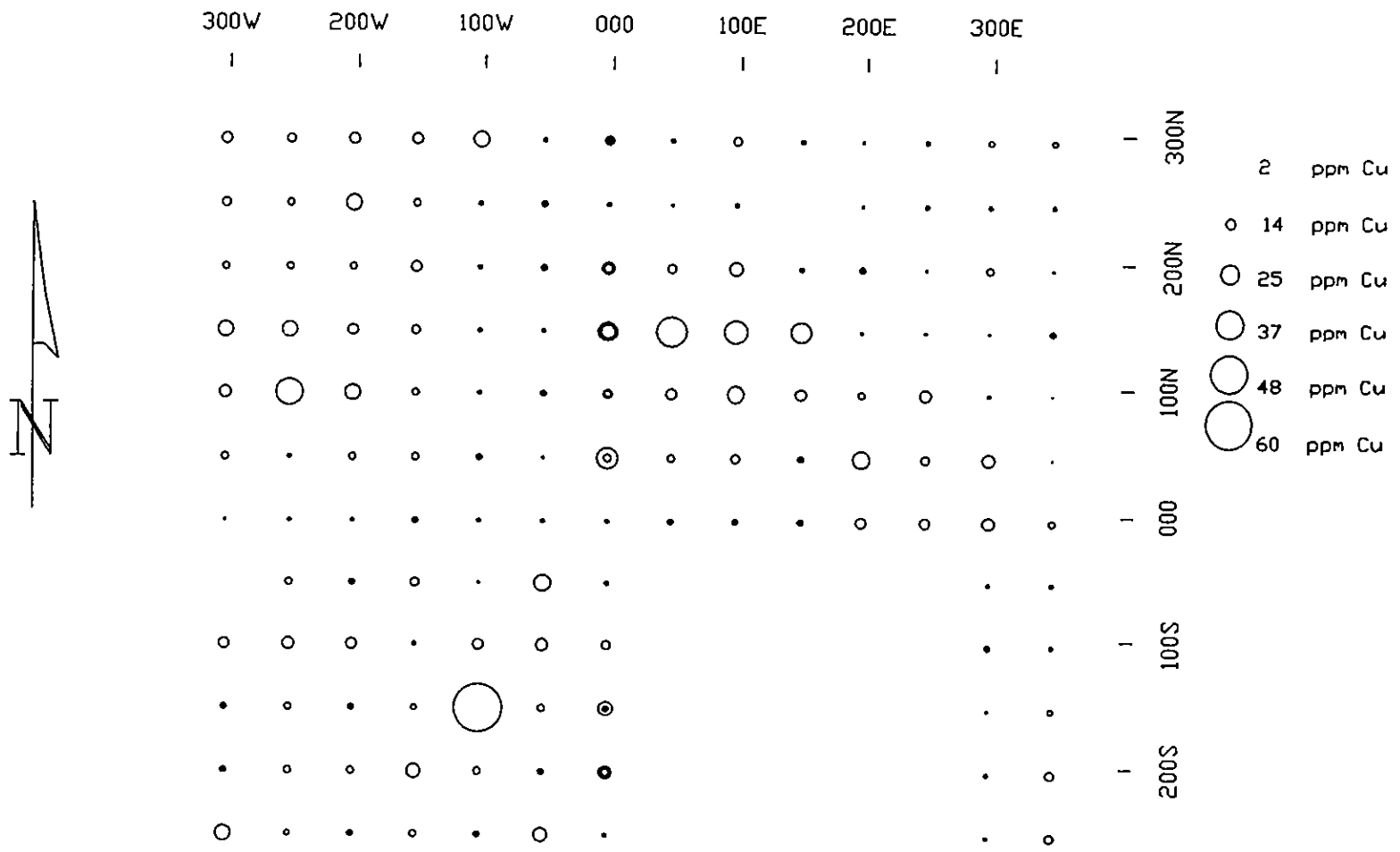

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Morgan 3 East Grid
Soil Geochemistry - Copper
(symbolic posting)

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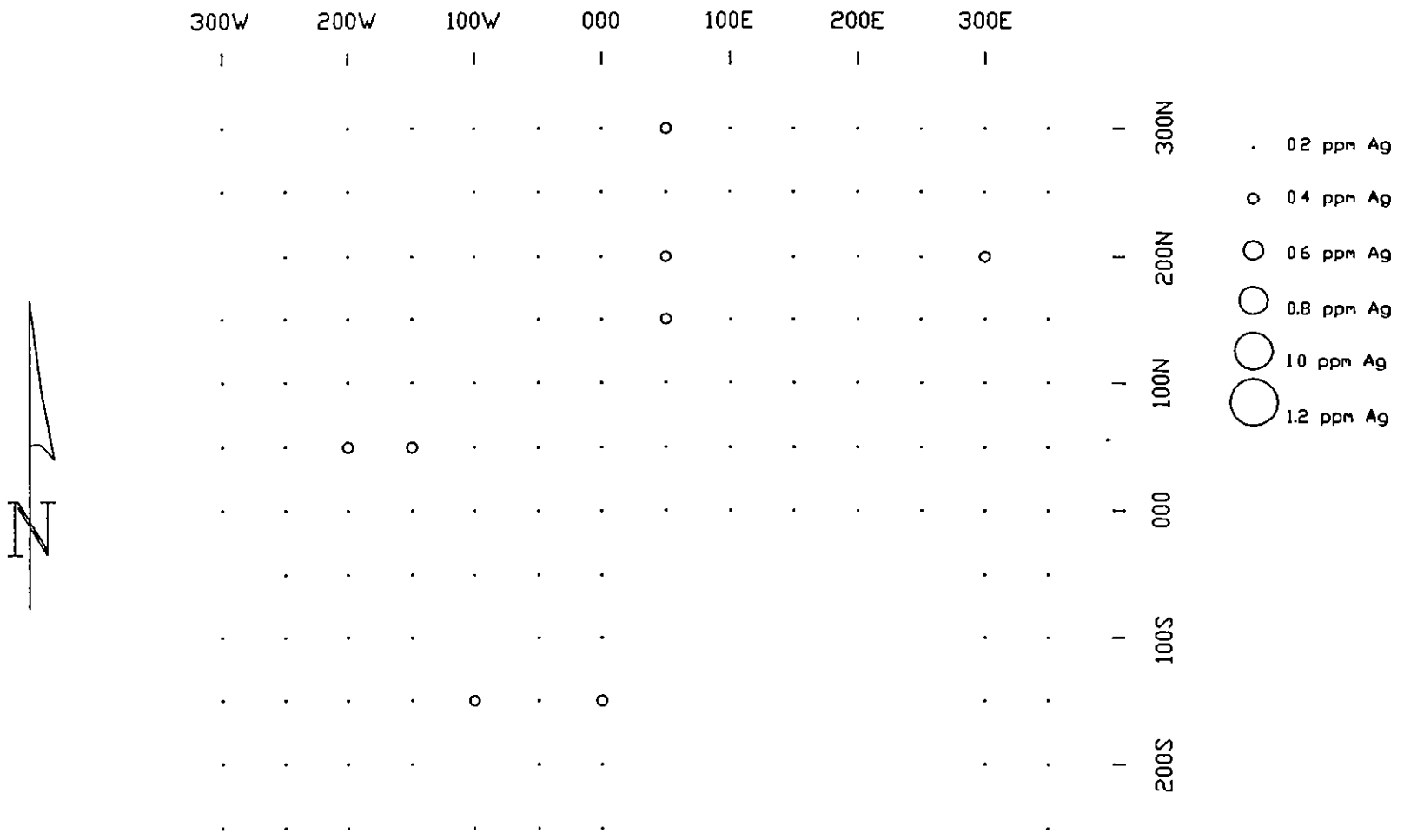

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Morgan 3 East Grid Soil Geochemistry - Silver (symbolic posting)
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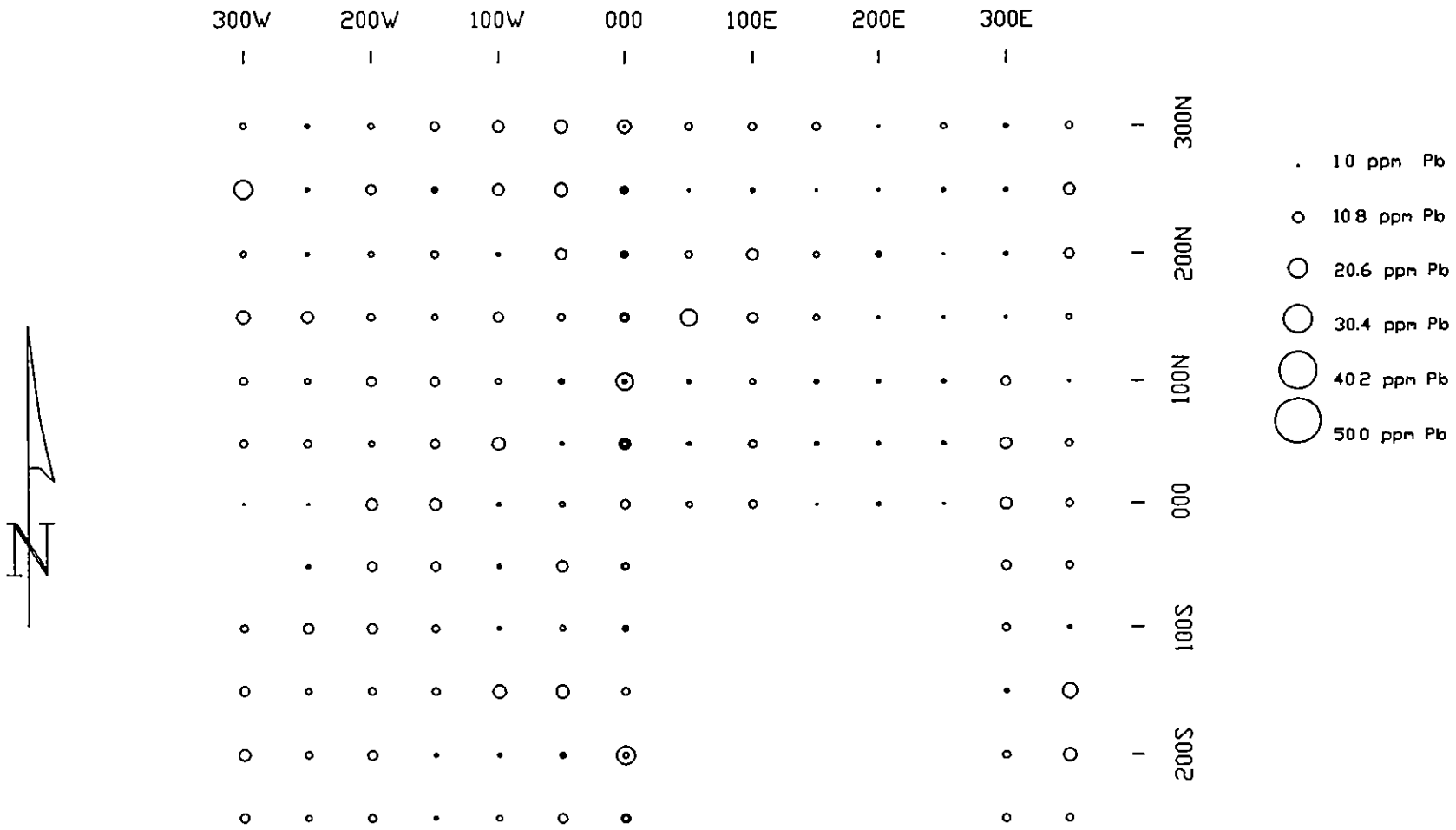

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Morgan 3 East Grid
Soil Geochemistry - Lead
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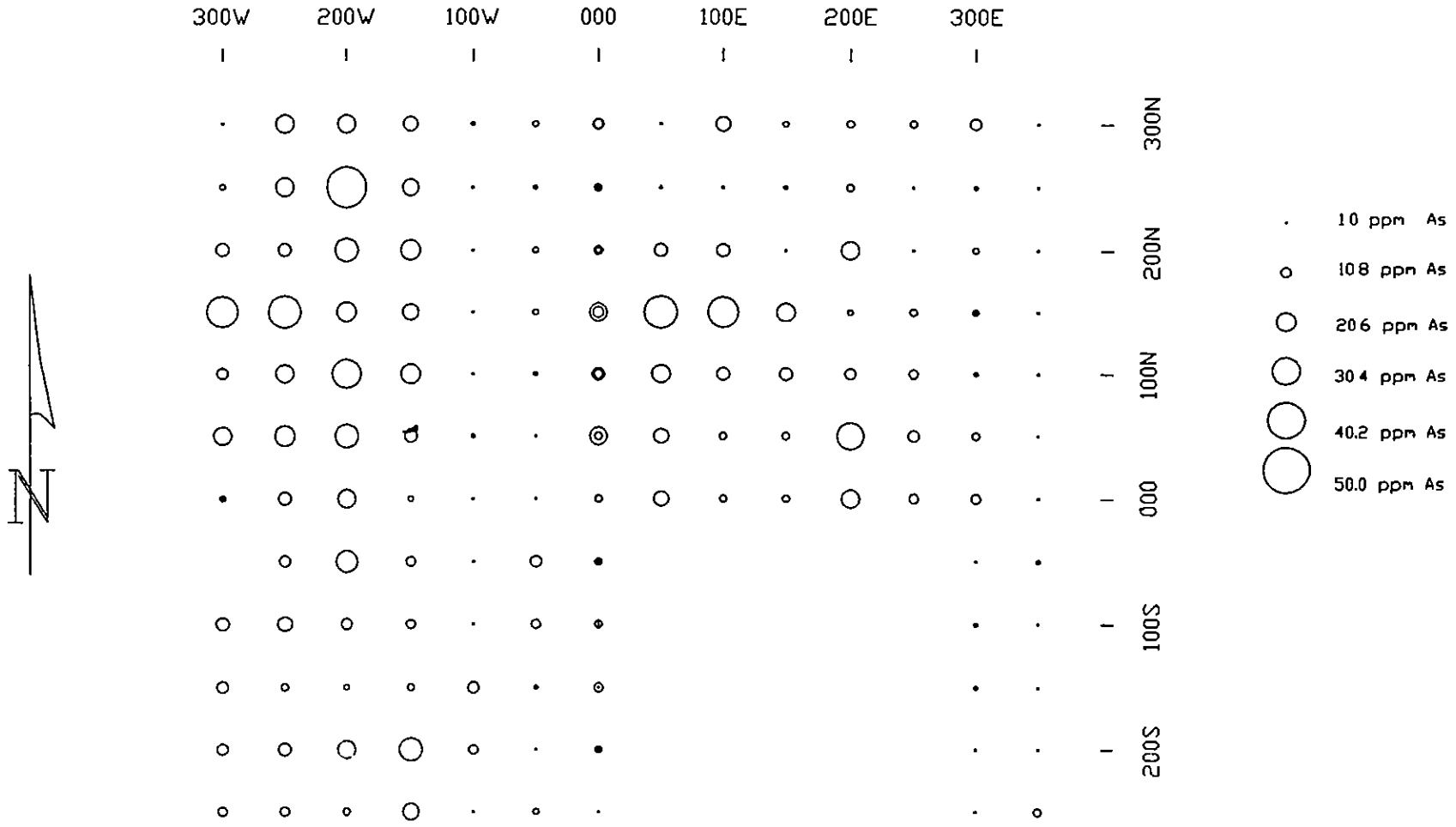

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Morgan 3 East Grid Soil Geochemistry - Arsenic (symbolic posting)
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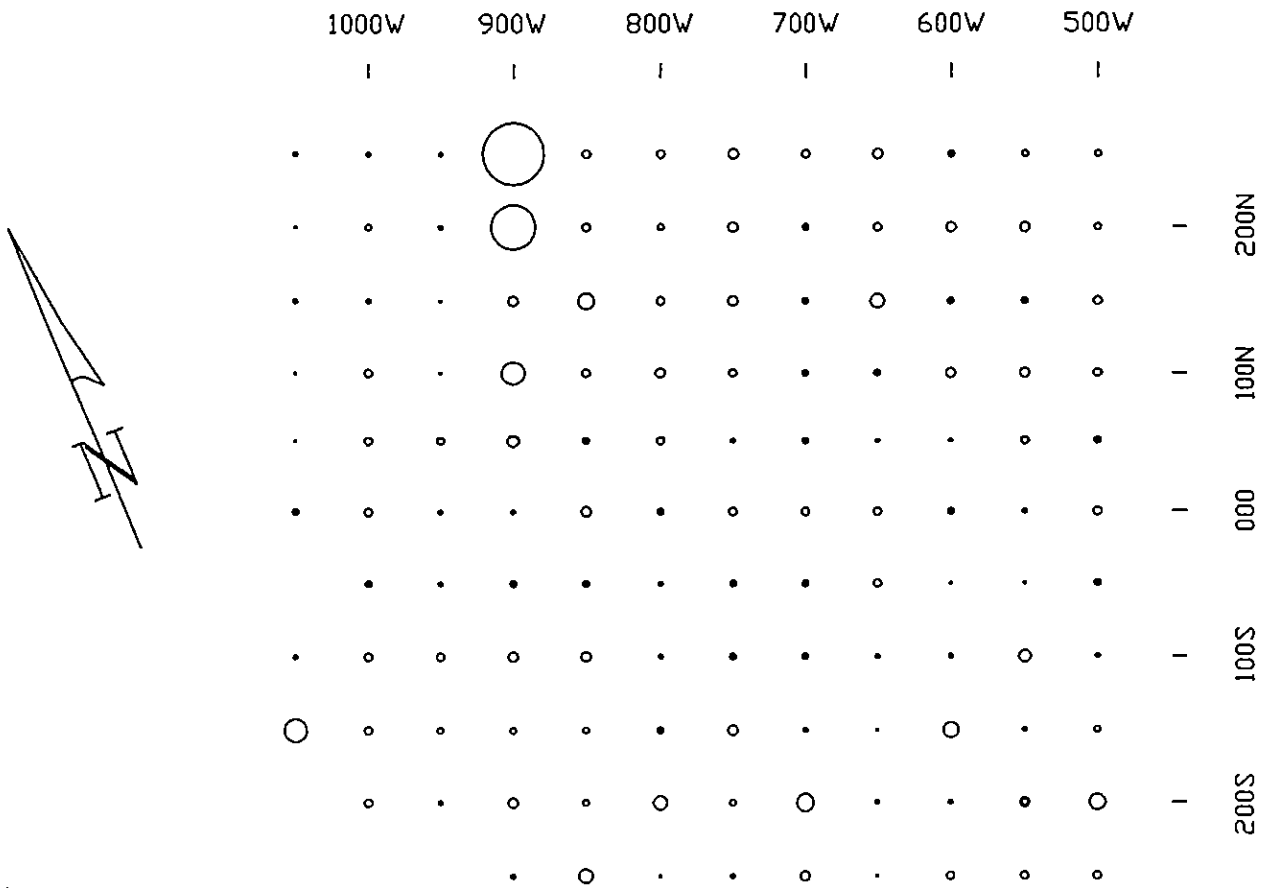

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Morgan 3 West Grid
Soil Geochemistry - Copper
(symbolic posting)

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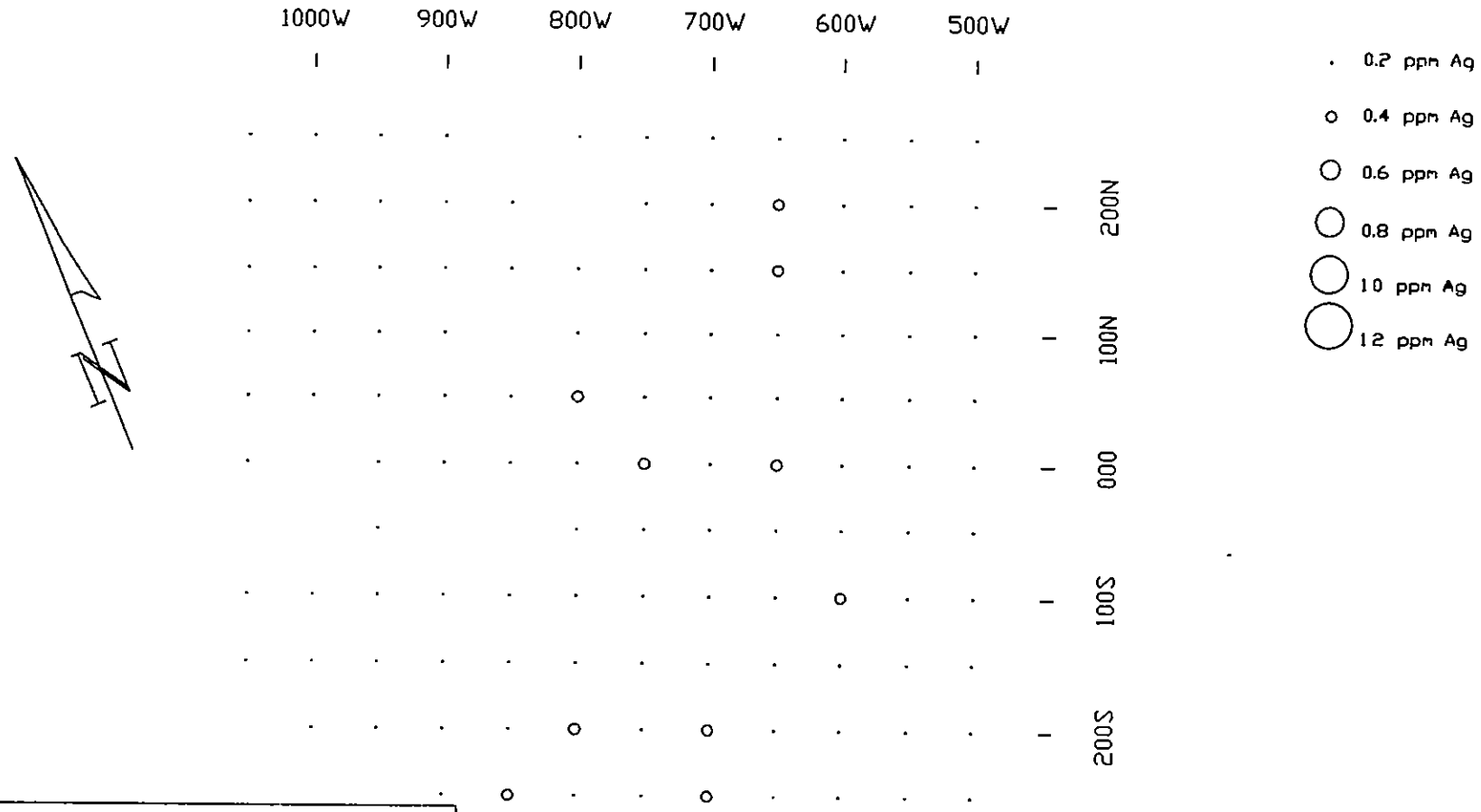

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Morgan 3 West Grid
Soil Geochemistry - Silver
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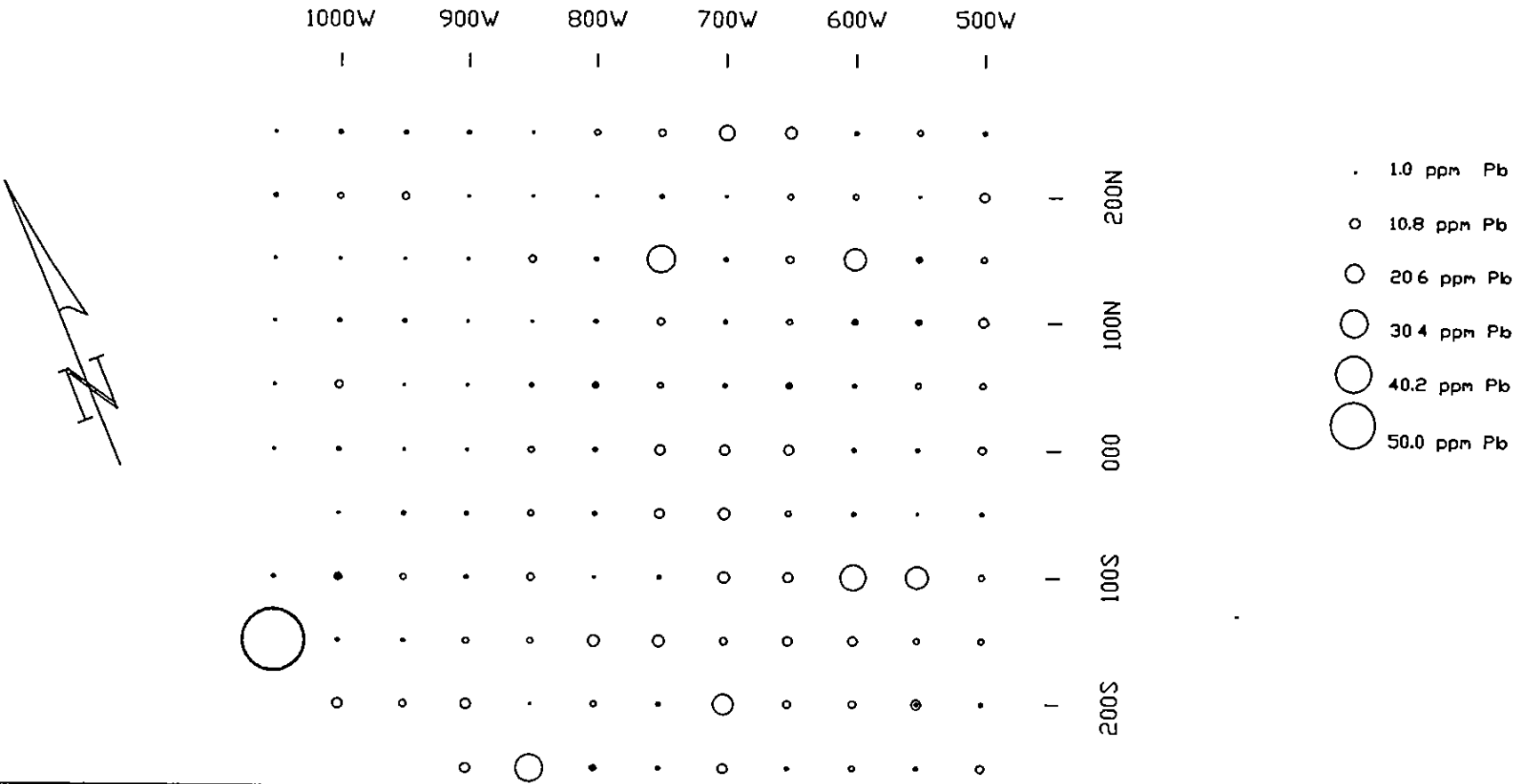

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Morgan 3 West Grid
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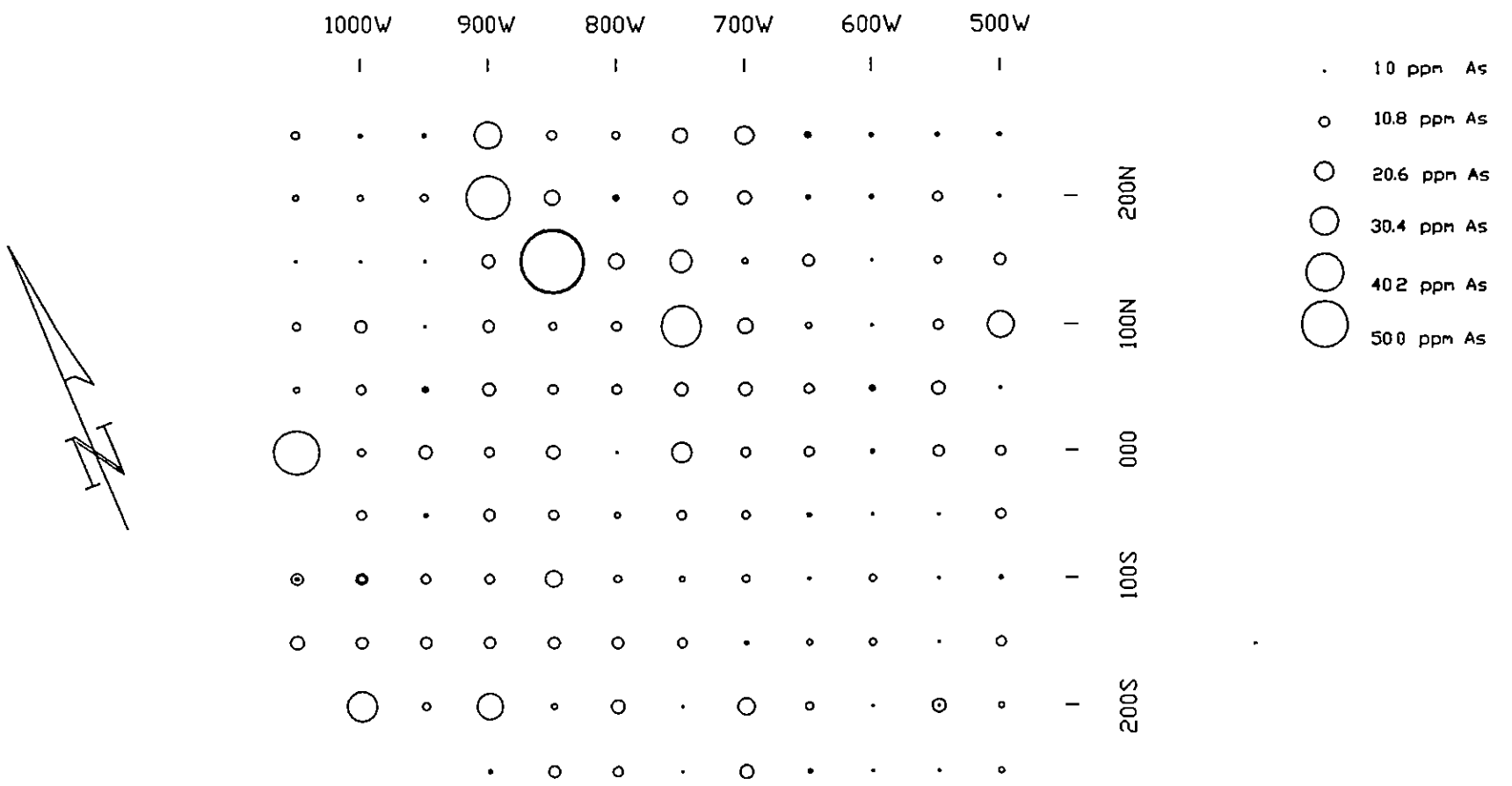

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Morgan 3 West Grid
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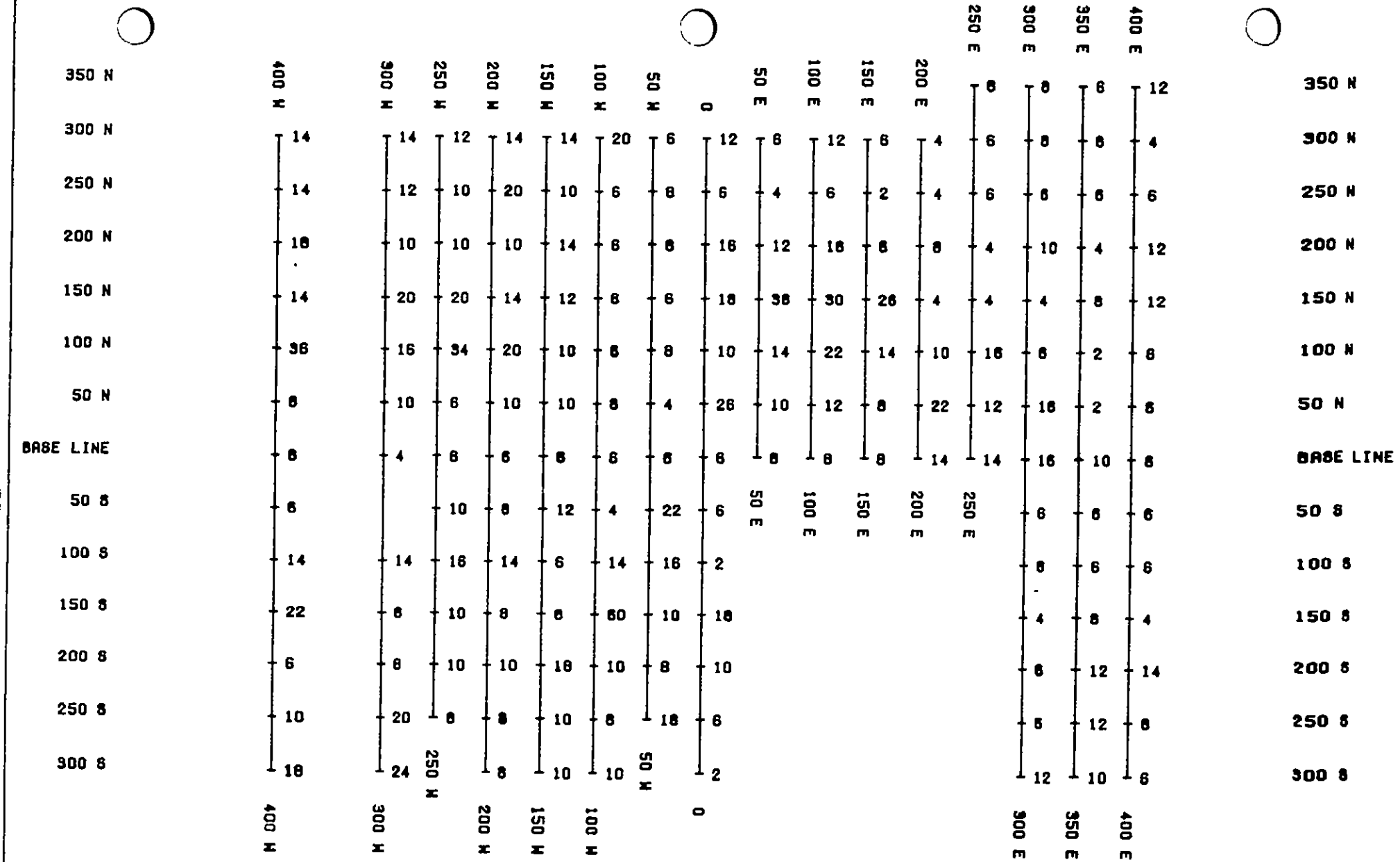

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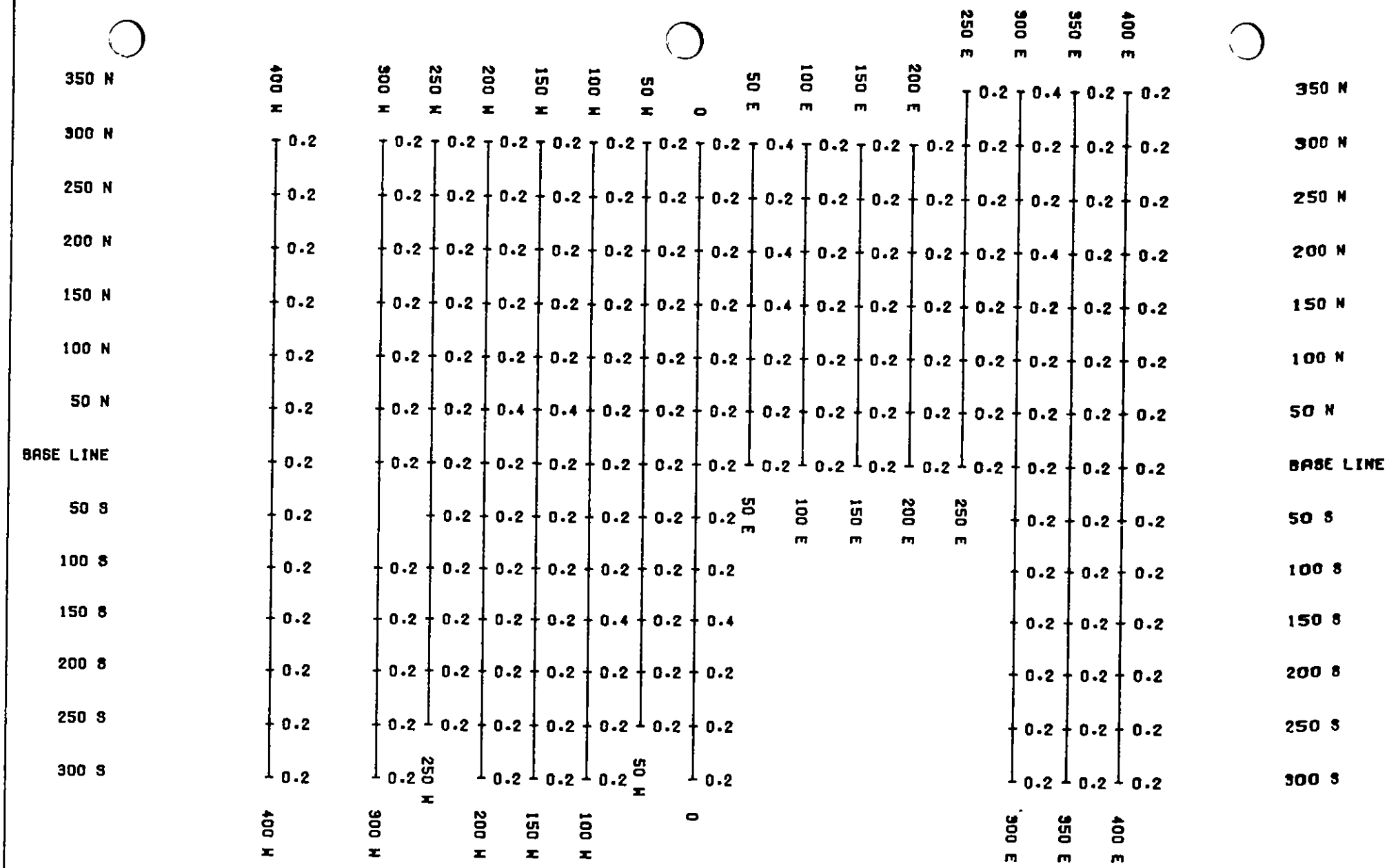

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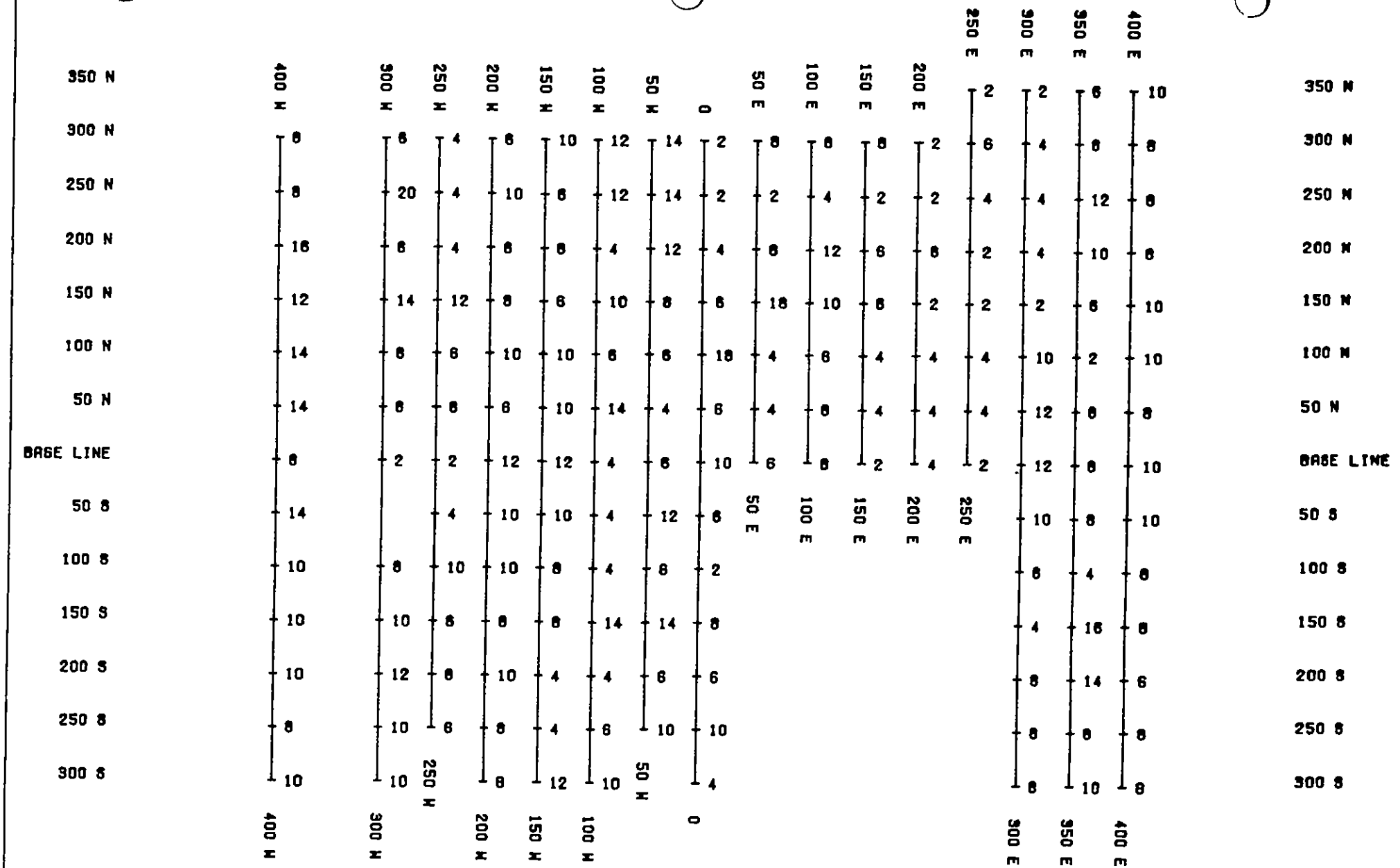

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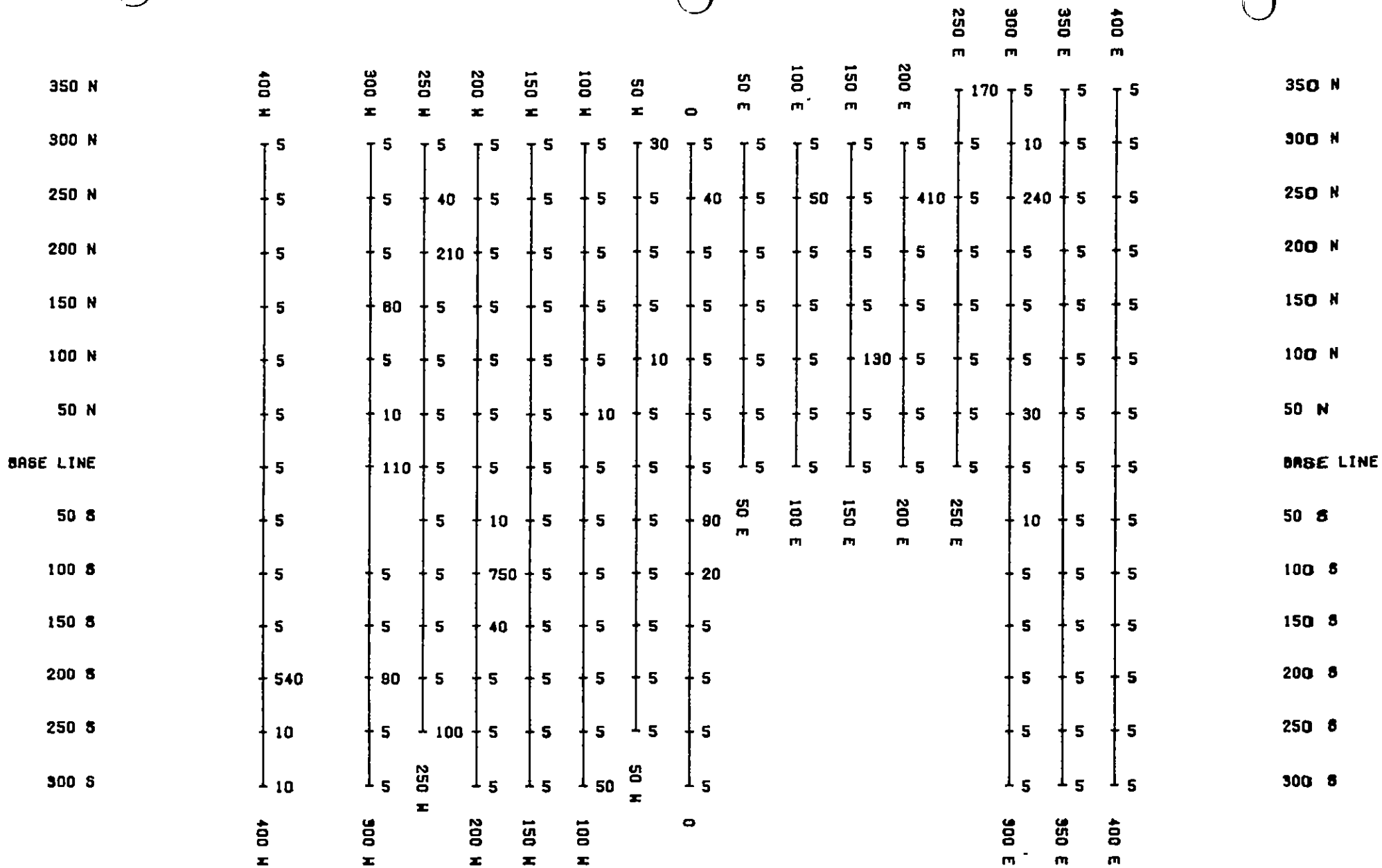

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SOIL GEOCHEM SURVEY

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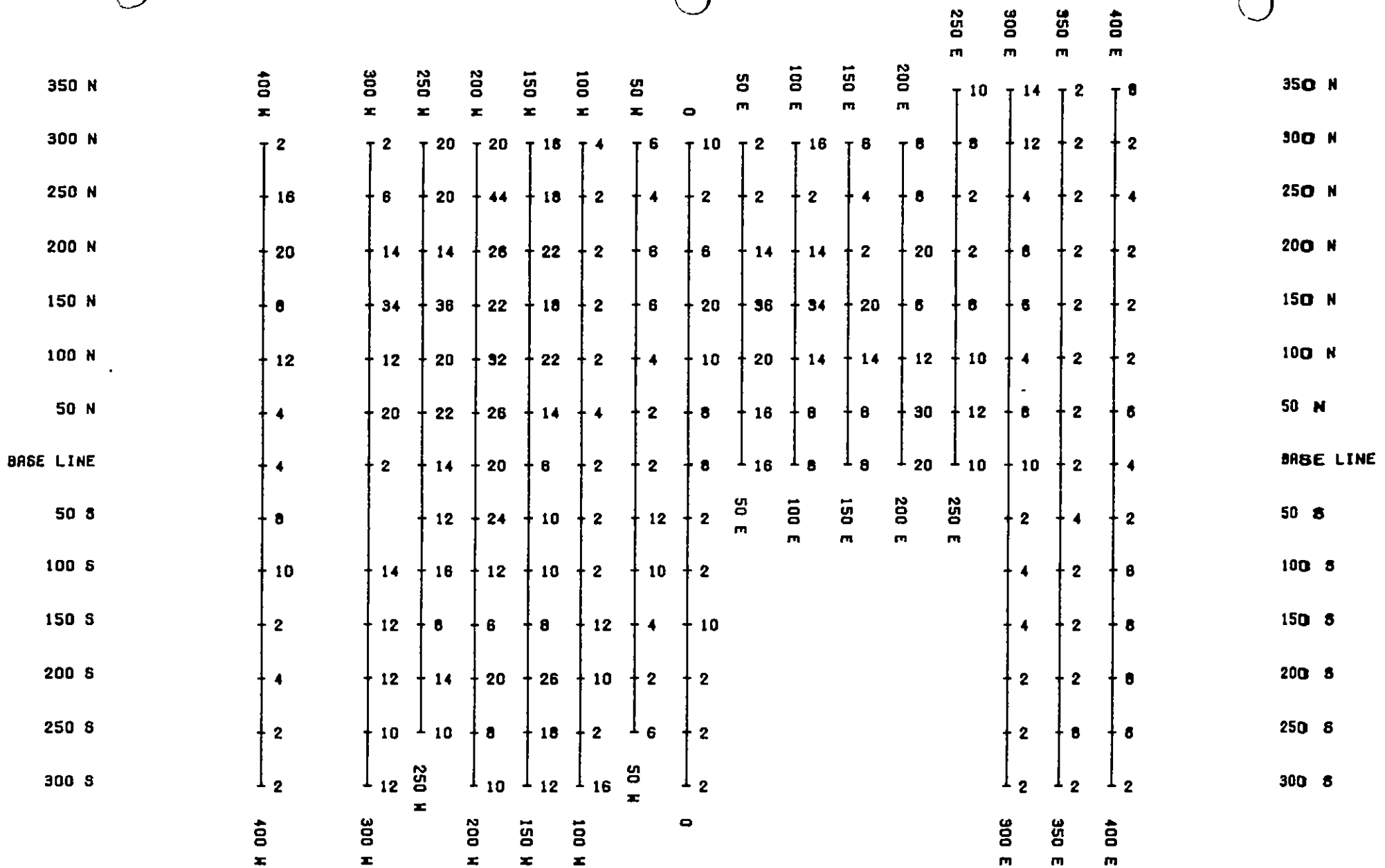
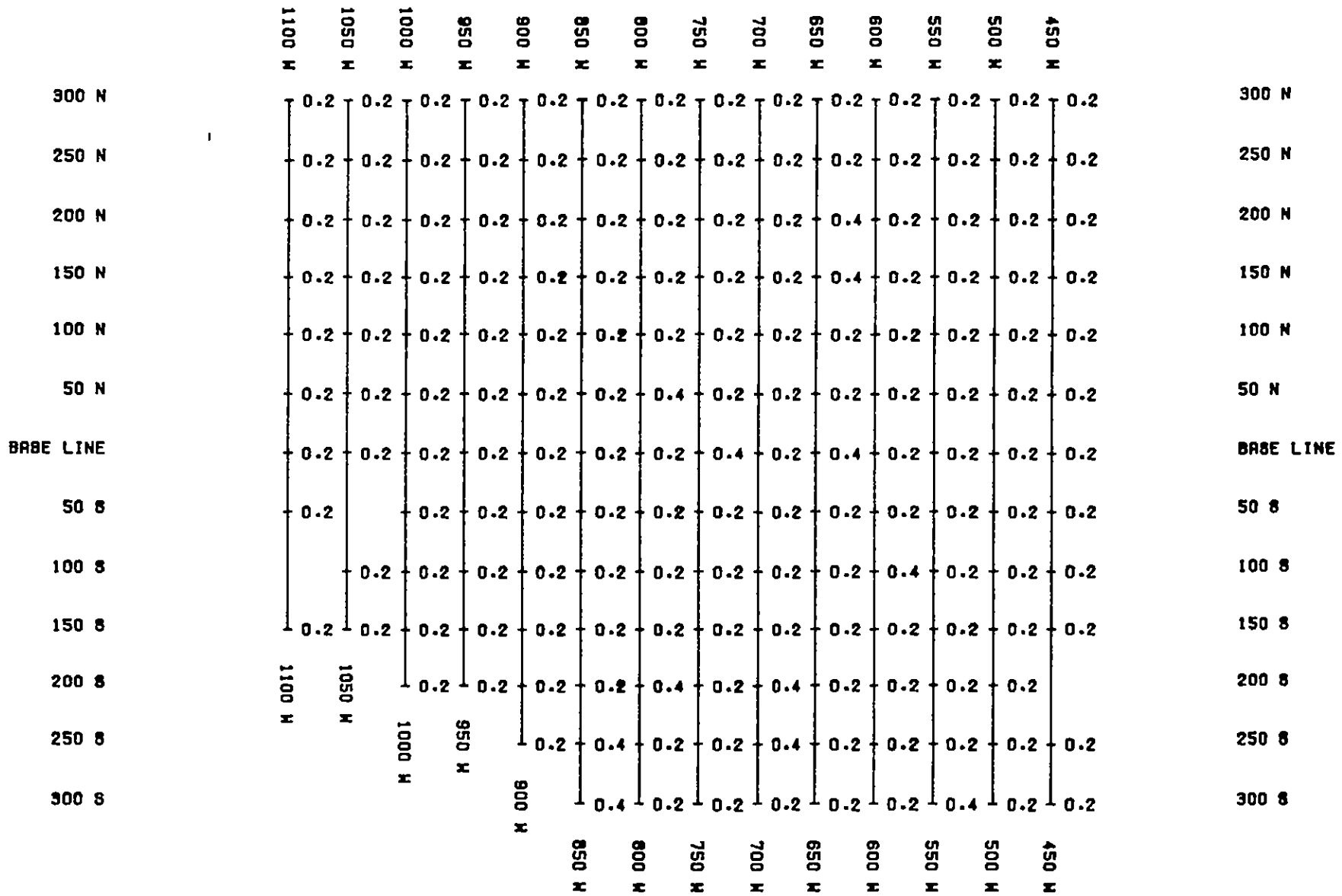


CHAPLEAU RESOURCES LTD.

SOIL GEOCHEM SURVEY

ARSENIC PPM.

MORGAN GROUP GRID 3A

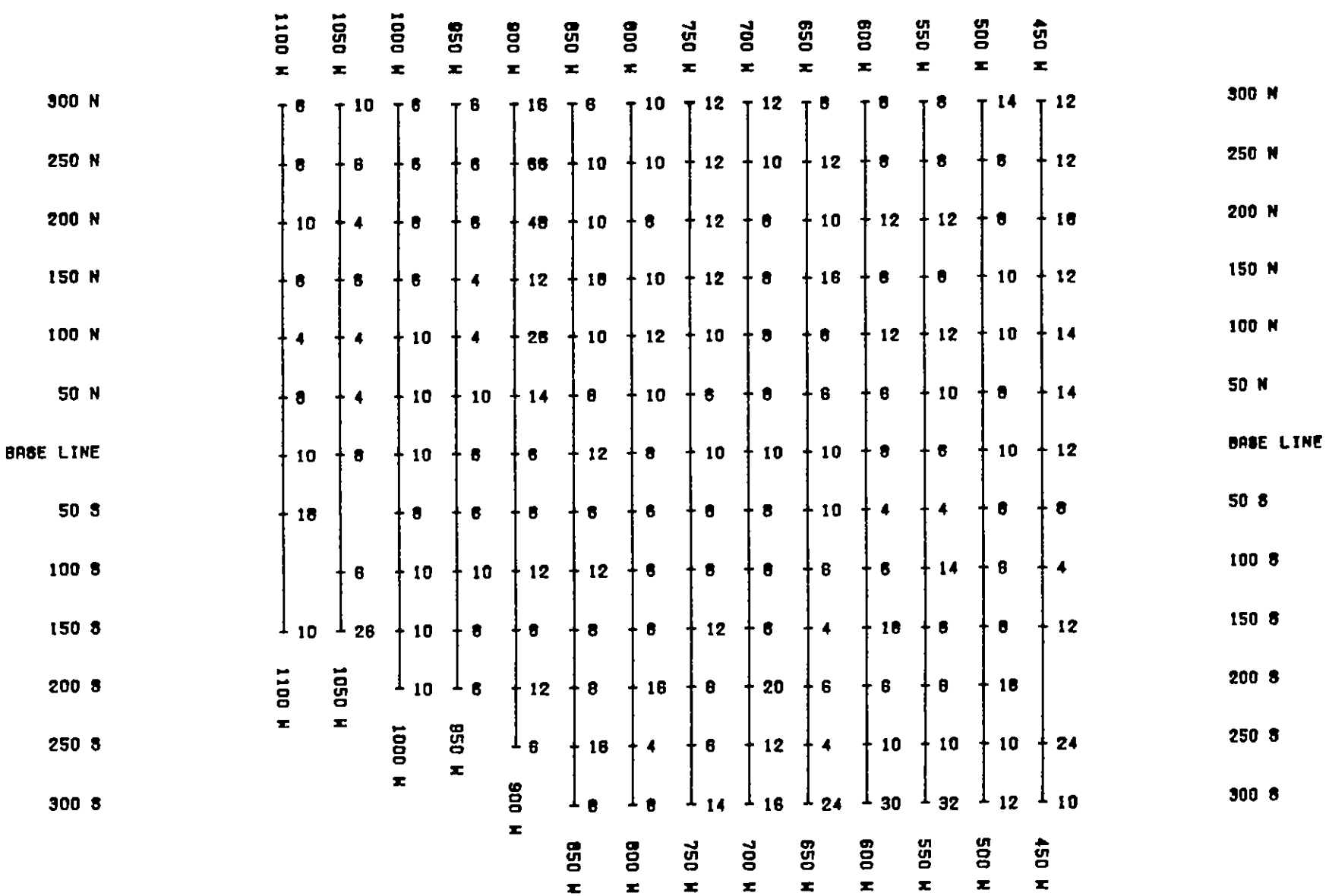


CHAPLEAU RESOURCES LTD

SOIL GEOCHEM SURVEY

SILVER PPM.

MORGAN GROUP GRID 3B

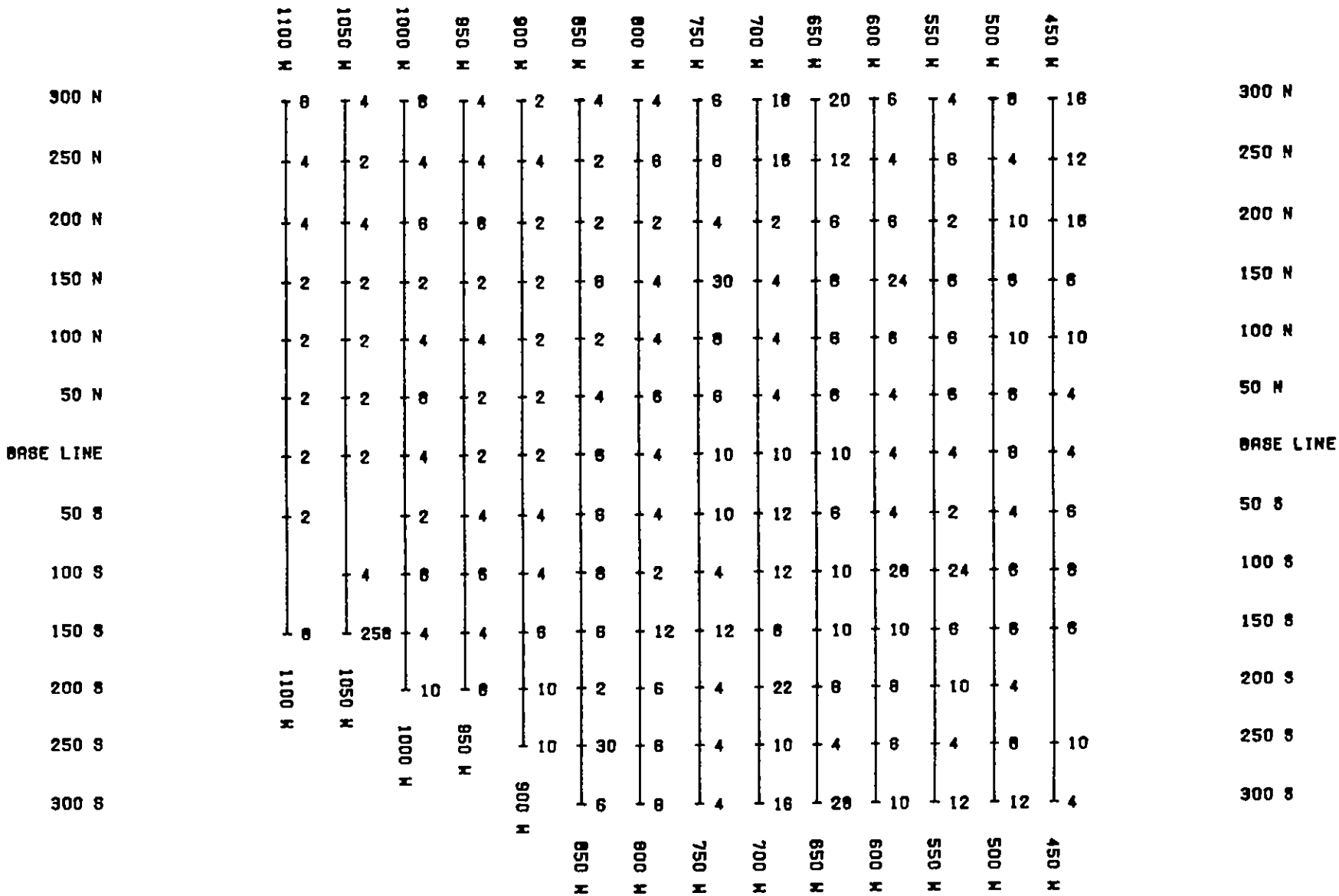


CHAPLEAU RESOURCES LT

SOIL GEOCHEM SURVEY

COPPER PPM.

MORGAN GROUP GRID 3

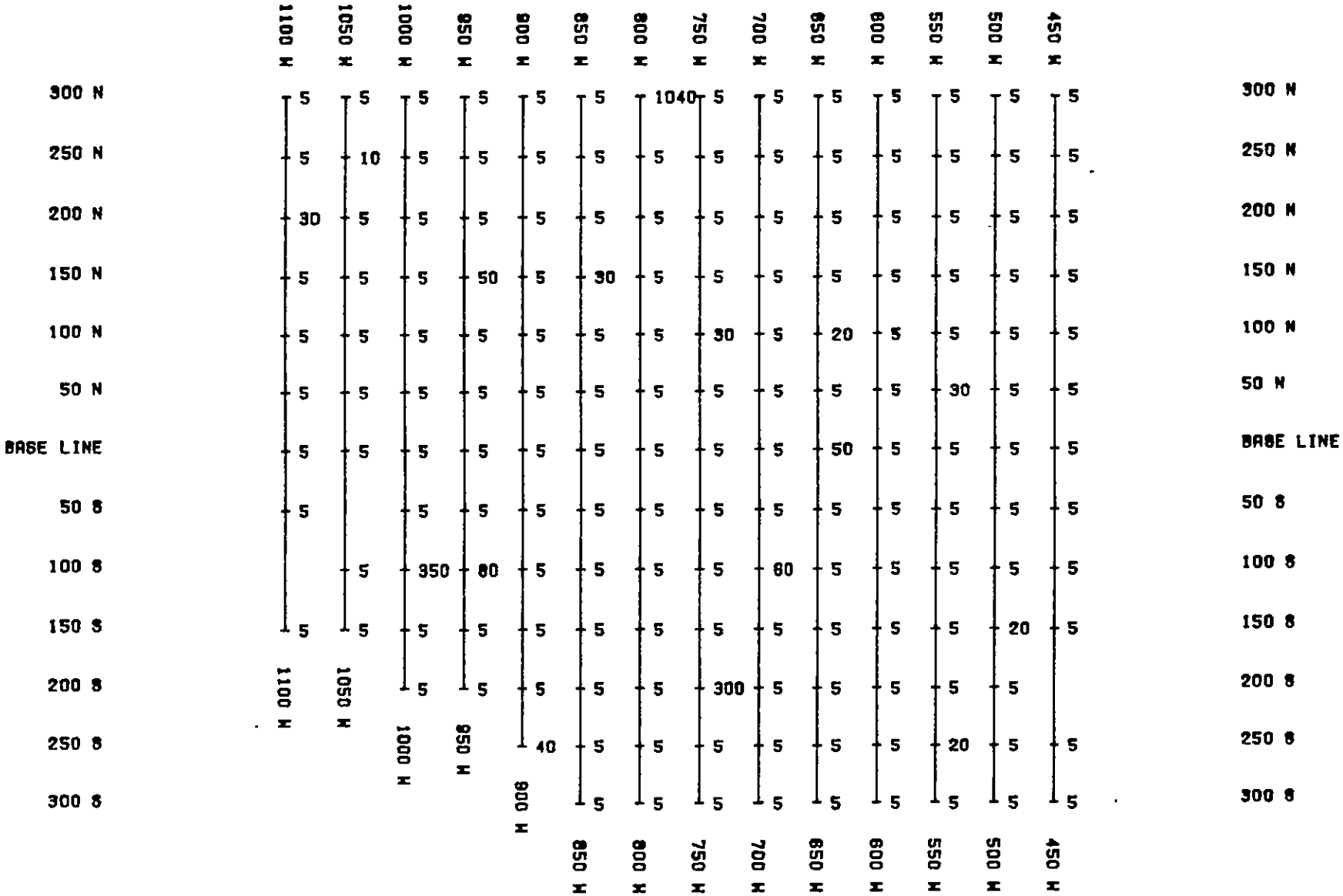


CHAPLEAU RESOURCES LTD

SOIL GEOCHEM SURVEY

LEAD PPM.

MORGAN GROUP GRID 3B



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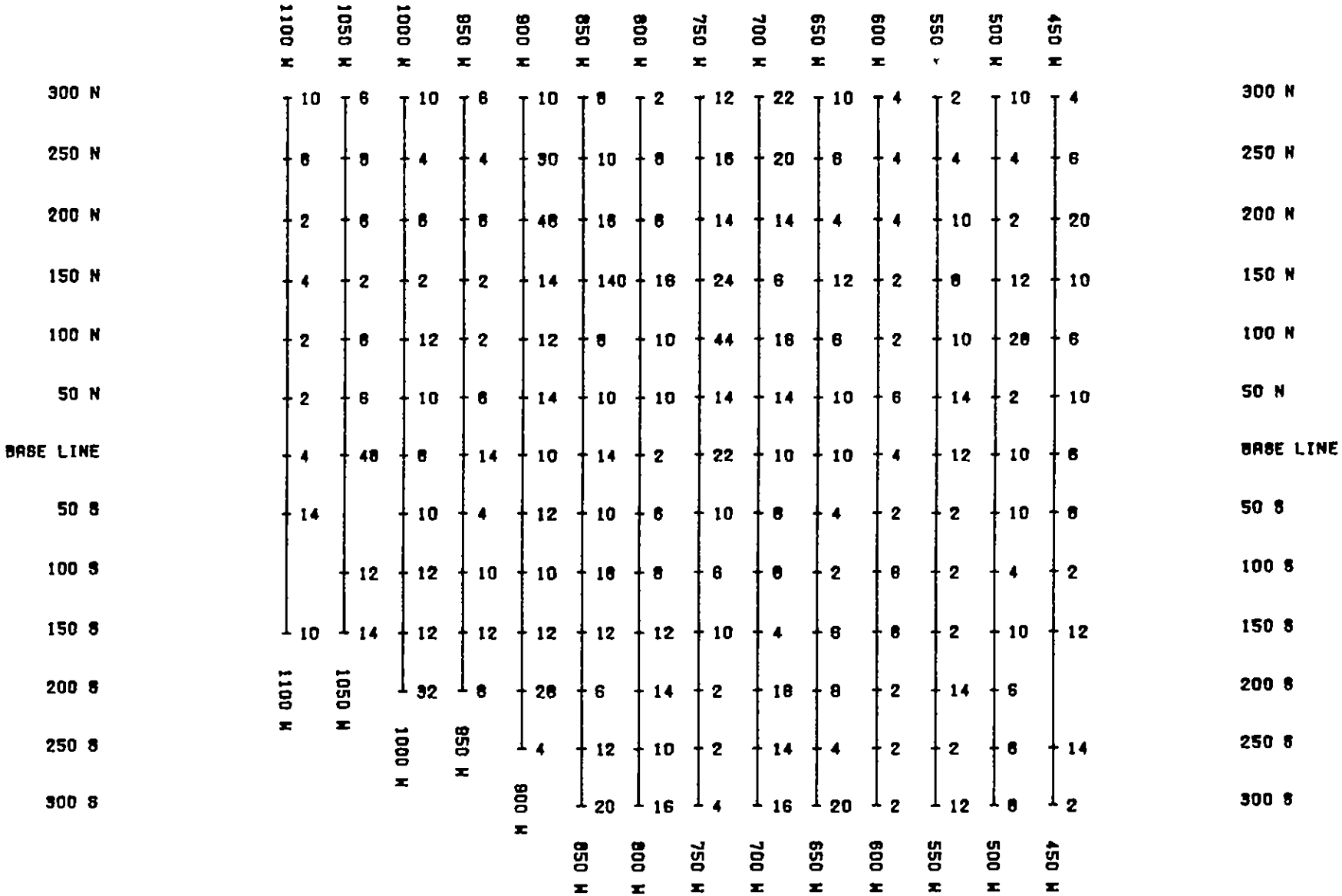
SOIL GEOCHEM SURVEY

GOLD PPM.

MORGAN GROUP GRID 3B


1100 M
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BASE LINE
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200 S
250 S
300 S
10 6 10 6 10 8 2 12 22 10 4 2 10 4
6 8 4 4 30 10 8 16 20 6 4 4 6 6
2 6 6 6 46 16 6 14 14 4 4 10 2 20
4 2 2 2 14 140 16 24 6 12 2 8 12 10
2 6 12 2 12 8 10 44 16 6 2 10 28 6
2 6 10 6 14 10 10 14 14 10 6 14 2 10
4 48 8 14 10 14 2 22 10 10 4 12 10 6
14 10 4 12 10 6 10 8 4 2 2 10 6
12 12 10 10 16 8 6 6 2 6 2 4 2
10 14 12 12 12 12 10 4 8 6 2 10 12
32 8 26 6 14 2 18 8 2 14 6 14
4 12 10 2 2 14 4 2 2 6
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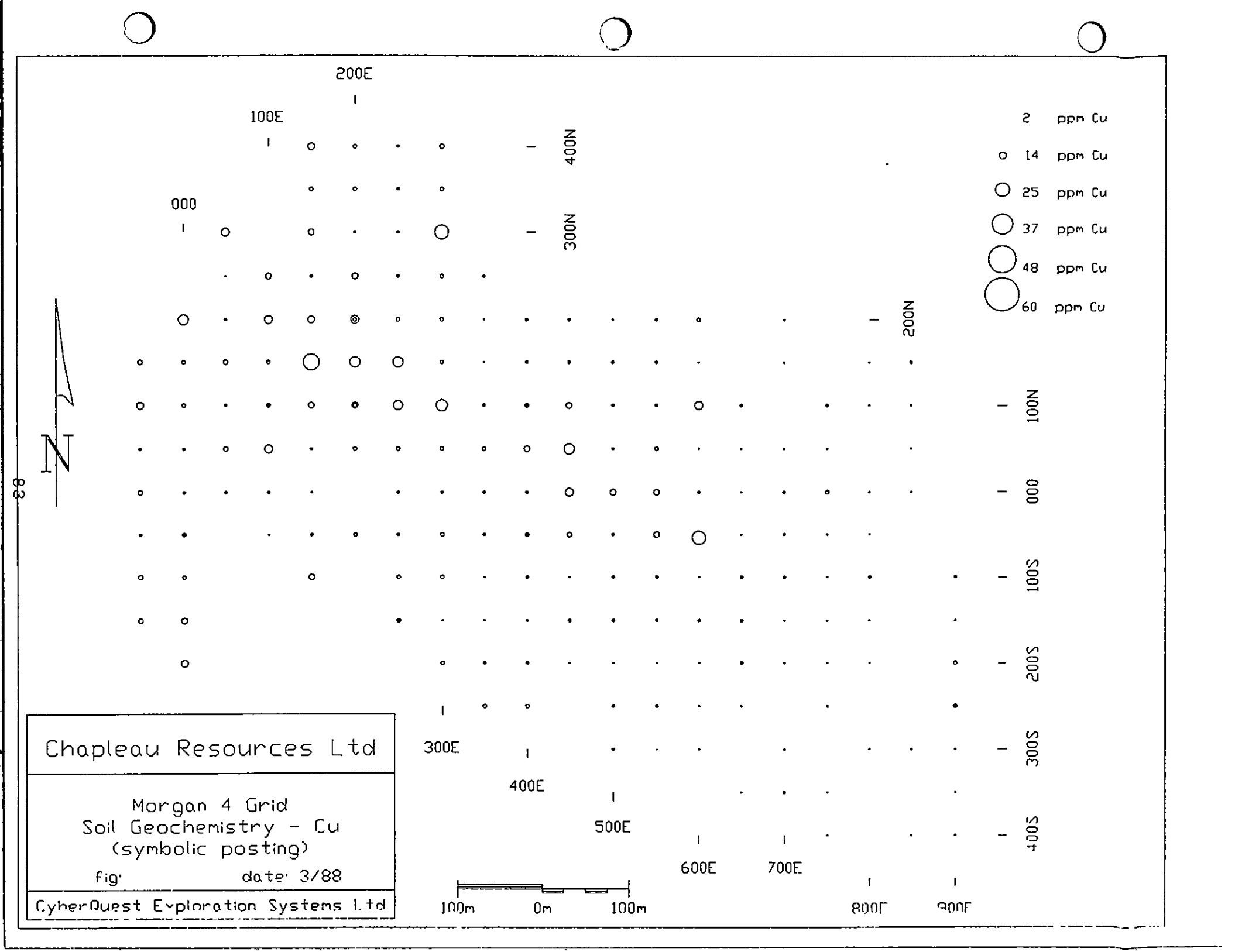
CHAPLEAU RESOURCES LTD
SOIL GEOCHEM SURVEY
ARSENIC PPM.
MORGAN GROUP GRID 3B
MARCH 1988
FORT RIFFLE M.D.


200E
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48 ppm Cu
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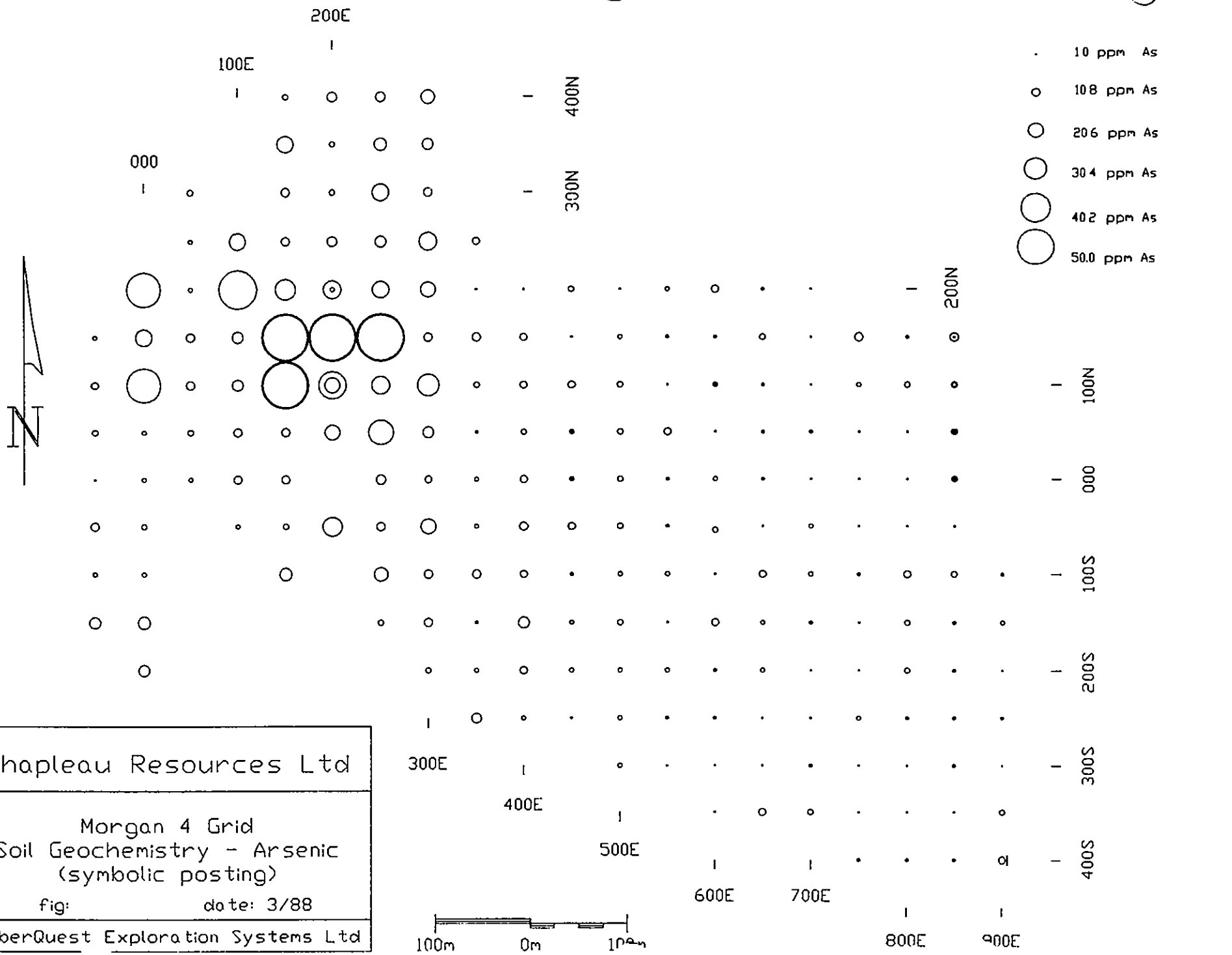
Chapleau Resources Ltd
Morgan 4 Grid
Soil Geochemistry - Cu
(symbolic posting)
fig:
date: 3/88
CyberQuest Exploration Systems Ltd

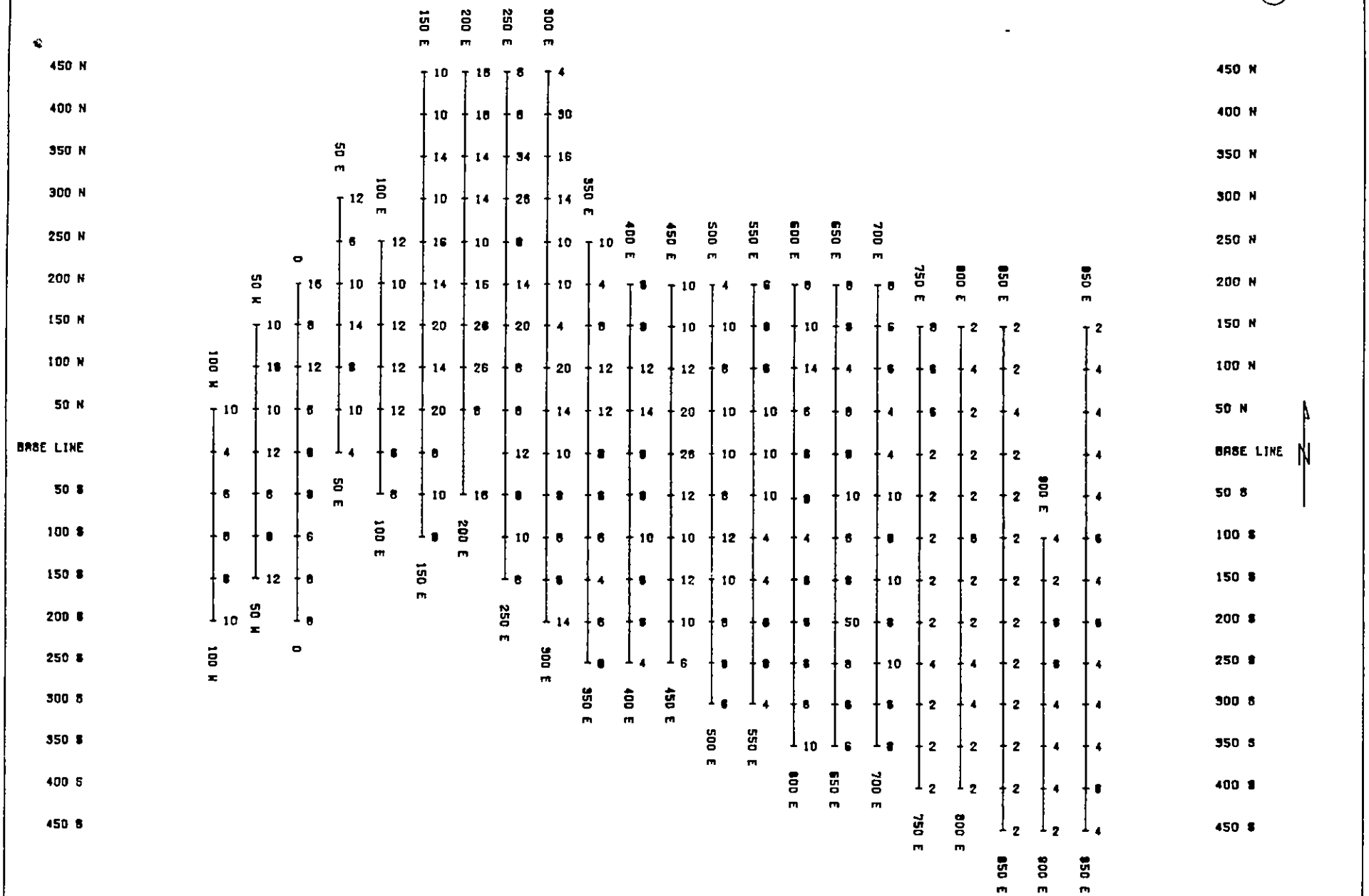


Chapleau Resources Ltd

Morgan 4 Grid
Soil Geochemistry - Arsenic
(symbolic posting)

fig: date: 3/88

CyberQuest Exploration Systems Ltd



CHAPLEAU RESOURCES LTD.

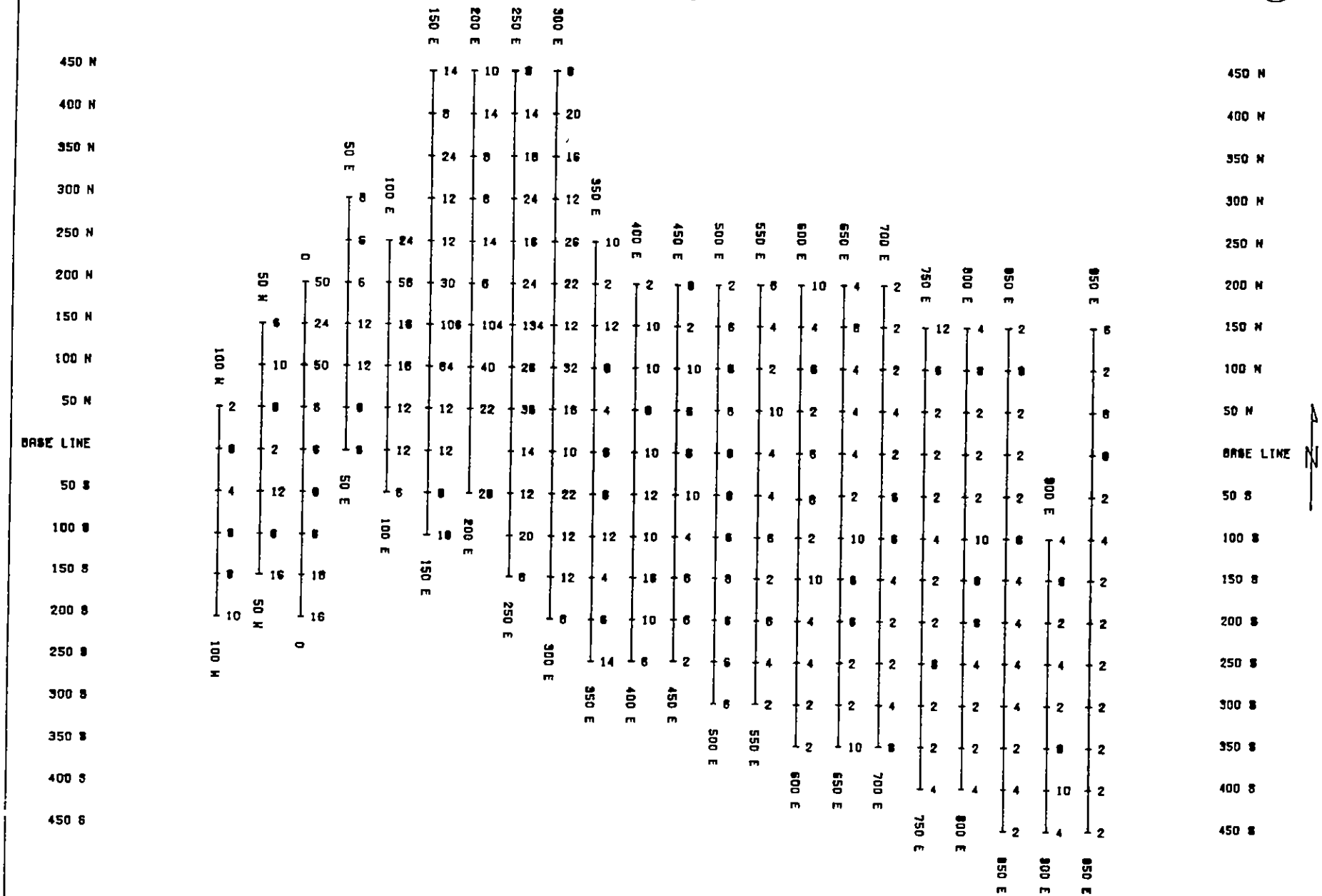
SOIL GEOCHEM SURVEY

LEAD PPM.

MORGAN GROUP GRID 4

MARCH 1988	FORT STEELE M.D.	FIG --

CYBERQUEST EXPLORATION SYSTEMS LTD.



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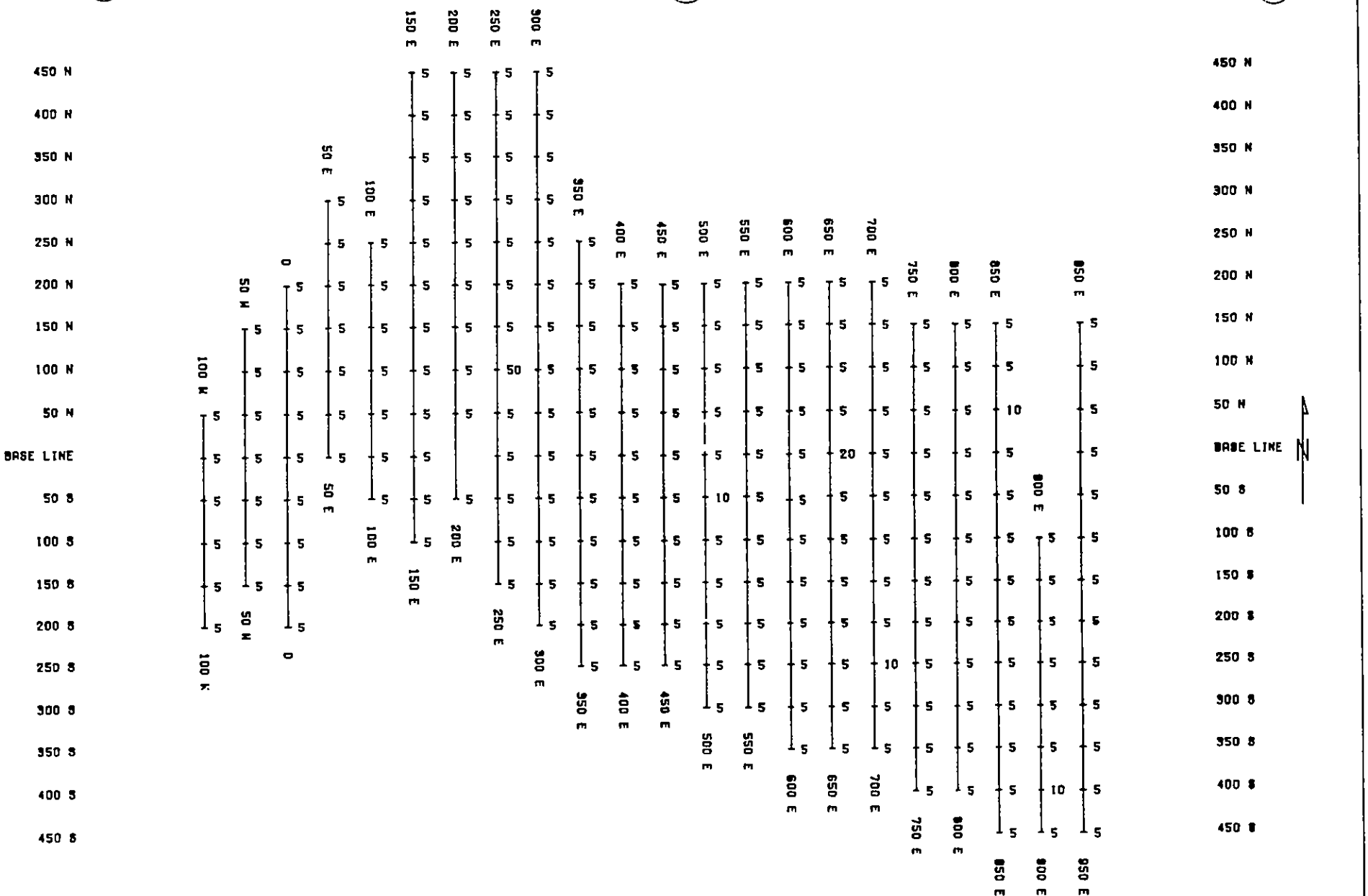
SOIL GEOCHEM SURVEY

ARSENIC PPM.

MORGAN GROUP GRID 4

MARCH 1988 | FORT STEELE M.D. | FIG --

CYBERQUEST EXPLORATION SYSTEMS LTD.



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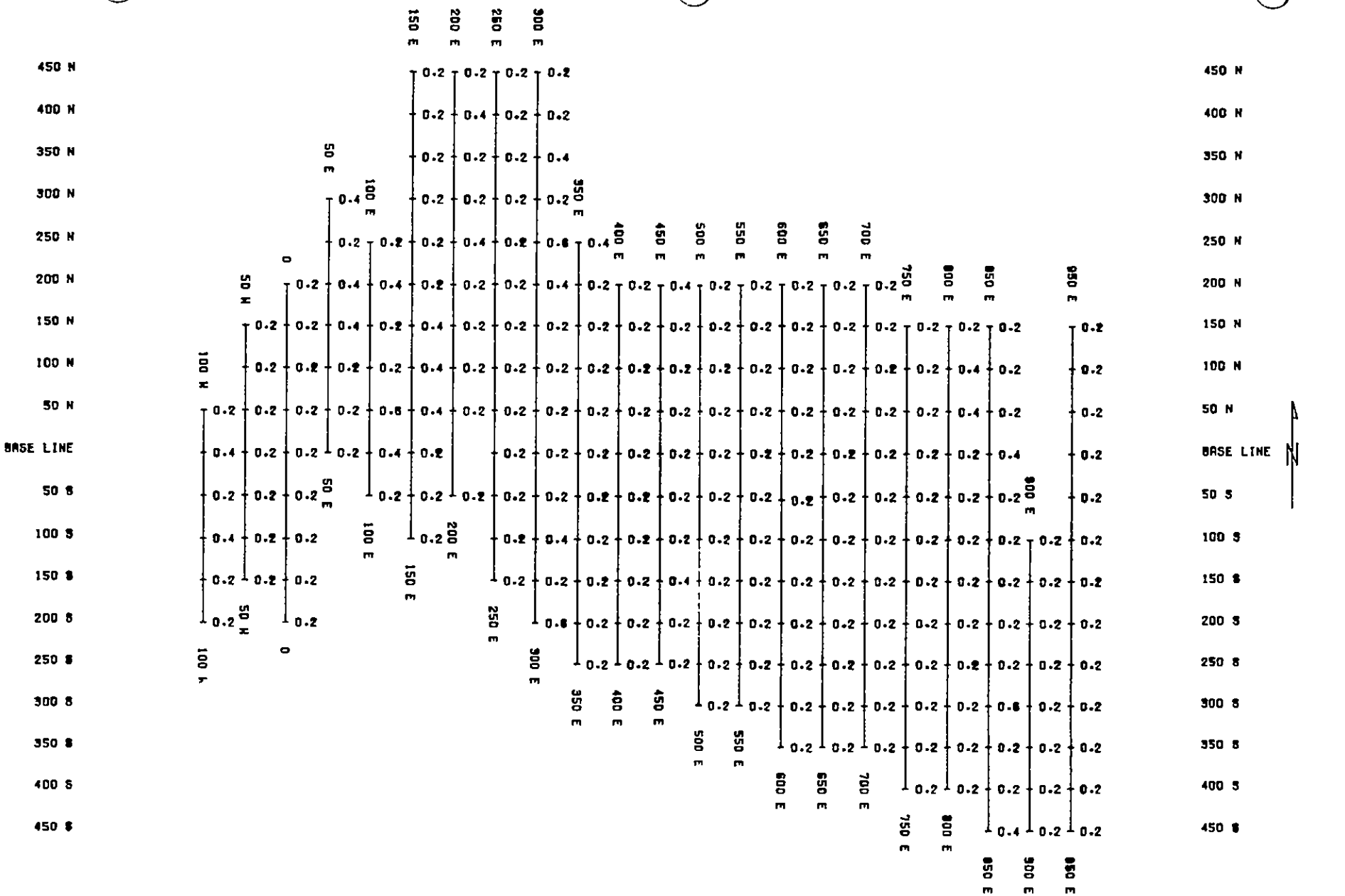
SOIL GEOCHEM SURVEY

GOLD PPM.

MORGAN GROUP GRID 4

MARCH 1988	FORT STEELE M.D.	710 --

CYBERQUEST EXPLORATION SYSTEMS LTD.



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SOIL GEOCHEM SURVEY

SILVER PPM.

MORGAN GROUP GRID 4

MARCH 1988	FORT STEELE M.D.	0 --

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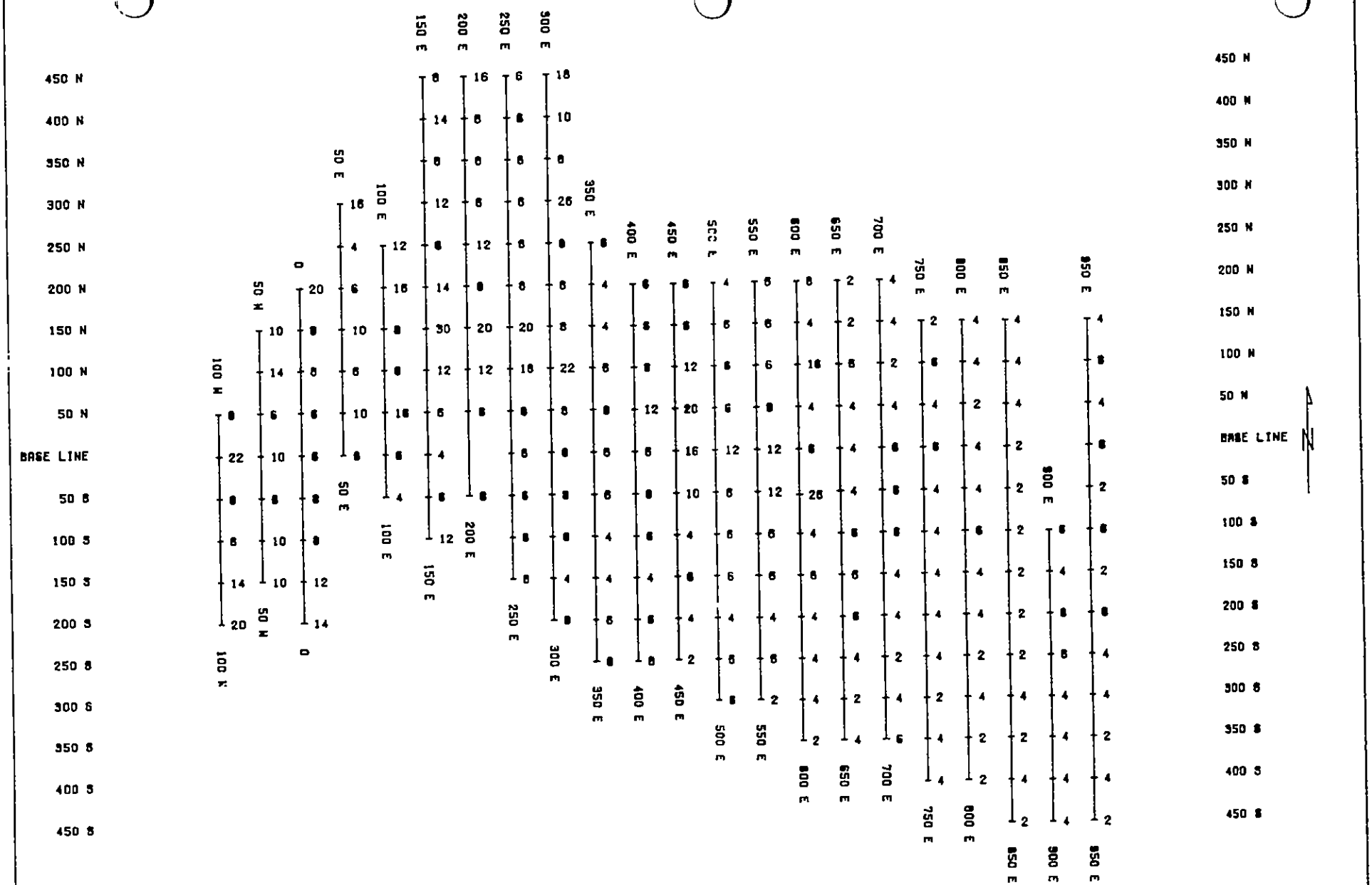

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SOIL GEOCHEM SURVEY

COPPER PPM.

MORGAN GROUP GRID 4

MARCH 1988	FORT STEELE M.D.	FIG --

CYBERQUEST EXPLORATION SYSTEMS LTD.

A PRELIMINARY REPORT ON THE 1987 SOIL GEOCHEMISTRY OF THE BUCK PROPERTY, CRANBROOK, BRITISH COLUMBIA

John Harrop Clifford R. Stanley

CyberQuest Exploration Systems, Ltd.
Suite 210 - 830 W. Pender St.
Vancouver, B.C. V6C 1J8

March 18, 1988

1 Introduction

This report addresses the results of the soil geochemical surveys which were undertaken during the 1987 field season on the Buck Property, Cranbrook, British Columbia by Chapleau Resources. Exploration targets on the property, which also occur in similar host lithologies and geologic settings nearby, include sediment-hosted massive-sulphide mineralization similar to that at the Sullivan Mine and precious-metal (± base-metal) quartz veins, perhaps similar to those on the east side of Moyie Lake (the St. Eugene Mine). Possibilities also exist for bulk-tonnage low-grade replacement-type Au deposits in calcareous stratigraphy of the Purcell Supergroup. A discussion of the results of these surveys is included based largely on a statistical analysis of the geochemical determinations, and based on maps of the geochemical concentrations. Recommendations for further geochemical work on the property are also presented.

Sampling was carried out by Chapleau Resources' employees during August through September 1987 and all geochemical element determinations were made by Rossbacher Laboratory, Ltd. Samples consisted of 0.5 kg of fine grained stream sediment material collected from the active bed of the streams. These were air dried and seived to -80 mesh. A 0.5 gram sub-sample was digested with a 3:1 nitric:perchloric acid attack and analysed using atomic absorption spectrometry. Elements determined include Cu, Ag, Pb, Zn and As for all soil grids. Gold was determined by a similar method, except that 10 grams of -80 mesh material was subjected to an aqua regia digestion followed by pre-concentration in MIBK. No standards were included in the analytical batches so data quality could not be determined; however, several sample sites have duplicate samples allowing a rough assessment of sample site reproducibility.

Four soil grids (Noke, BSW-1, BSW-2, BSW-3) were sampled and maps presenting the sample locations and geochemical concentrations for these samples are presented in Appendix A. The grids are, for the most part, oriented N-S with 50 m between lines and 50 m between sample sites (with the exception of the Noke Grid, which is oriented with its base line 30° east of true north). The grids are irregular because numerous grid nodes could not be sampled.

2 Statistical Analysis

2.1 Threshold Selection

A histogram and probability plot analysis (Sinclair 1974, 1976; Stanley 1987) of the geochemical concentrations was made on all of the data from the four soil grids. Output of these statistical results are presented in Appendix B.

Results indicate that all elements have subdued abundances and exhibit positively skewed distributions. Low element abundances are common in Belt-Purcell soils, even over sulphide mineralization, because of the overall low absorptive capacity of the soils (low clay and Fe-oxy-hydroxide mineral content; Stanley 1984). This allows the easy leaching of

the soluble base metals from the soils, despite high element concentrations in the source-bearing subjacent bedrock. The positive skewness of the element distributions probably results from a large number of 'background' concentrations and a small number of 'highly anomalous' concentrations which may possibly be related to economic mineralisation.

2.1.1 Copper

The Cu distribution appears to have a trimodal, log-normal form. One mode consisting of a large group of samples, exhibiting what are interpreted to be 'background' Cu concentrations and a mean of 10 ppm. Assymetric ± 1 standard deviation values about this mean are 13 and 7 ppm, respectively. A second group of samples of higher abundance can be distingushed from this 'background' group. This group of samples has a mean of 21 ppm ($\pm$ 25,17). The third group of samples has a mean of 45 ppm ($\pm$ 63,32). These concentrations are interpreted to be 'anomalous' and range up to 128 ppm Cu. The second and third groups of 'anomalous' samples may be related to lithologies containing elevated Cu concentrations or to Cu-sulphide-bearing strata. A threshold which discriminates the 'background' and 'anomalous' sample groups occurs at approximately 15 ppm, while on that discriminates the two anomalous groups occurs at 25 ppm.

2.1.2 Silver

Silver concentrations are all equal to the detection limit value of 0.2 ppm. Consequently, silver is not discussed.

2.1.3 Zinc

Zinc concentrations exhibit only moderate positive skewness and the frequency distribution of the concentrations can be modelled with a single log-normal distribution. A threshold which distinguishes possibly anomalous samples occurs at 125 ppm, a value only slightly lower than the mean plus two standard deviations value.

2.1.4 Lead

Lead concentrations also exhibit a positive skew and have an overall low abundance (with a maximum concentration of 78). Lead appears to be log-normally distributed with minor negative deviation in lower concentrations (interpreted to be due to truncation of the distribution by the detection limit). A possible second distribution on the high concentraion tail of the distribution is not of substantial enough size to obtain estimates of its mean and standard deviation values, but it can be distinguished from the 'background' group of samples by a threshold of 17 ppm (the mean plus 2 standard deviations value).

2.1.5 Gold

Gold concentraions on the Buck Property are all below or at the detection limit of 5 ppb, with one exception of 30 ppb. Consequently, the distribution of Au is not discussed.

2.1.6 Arsenic

Arsenic exhibits a bimodal normal distribution and a maximum concentration of 26 ppm. The lower mode consists of concentrations below approximately 13 ppm and probably represents 'background' sources. The higher mode, with a mean of 17 ppm and a standard deviation of 4 ppm is probably 'anomalous' and may be related to sulphide-bearing strata. A threshold of 13 ppm separates the 'anomalous' and 'background' sample groups.

3 Interpretation

Data posting plots are discussed in three sections related to the three sets of plots of the soil grid areas (BSW-1 and BSW-3 have been plooted together because of their proximity.

3.1 Noke Grid (Locations p8)

Concentrations of Au and Ag on the Noke Grid are, with the exception of one 30 ppb Au value, all equal to their respective detection limits. Copper, Pb and As exhibit anomalous concentrations along the western edge of the grid from 50 N to 100 S. In addition, high background concentrations of these elements occur in an ENE-WSW orientation which intersects this anomaly. A second, similar parallel trend occurs 75 m south of this pattern in similar elements and element concentrations. These trends may be subtle expressions of sulfide bearing structures or stratigraphy on the soil grid.

3.2 BSW Grids # 1 and # 3

The BSW-1 and BSW-3 soil grid contains only background concentrations of Au and Ag. Arsenic concentrations are above the detection limit but are not anomalous. A significant Pb anomaly, with scattered anomalous Cu and Zn concentrations within it, occurs in a zone bounded by 0 N, 100 W and 200 N 175 W. Other anomalous Zn concentrations occur on the eastern edge of the grid. The Pb anomaly may represent sulphide bearing lithologies, while the scattered Zn anomalies may represent hydromorphic dispersion of the Zn from its possible source in the Pb anomaly. The low mobility of Pb in the secondary environment, relative to Zn and Cu, supprots this interpretation.

3.3 BSW Grid # 2

The BSW-2 soil grid contains only background concentrations of Au and Ag. Scattered As and Pb anomalies occur along the base line at 250 N and 50 S. These may relflect

sampling problems. In addition, a well defined Pb anomaly occurs in the SW corner of the grid and is bounded by locations 200 S, 150 W and 0 N, 50 W and contains scattered anomalous Cu concentrations. Anomalous Zn occurs at scattered locations across, but, with one exception, not over the Pb anomaly. This geochemical signature is similar to that observed on the BSW-1 and BSW-3 soil grid and may represent a similar sulpihide mineral source.

4 Conclusions and Recommendations

Based on the results of the 1987 soil surveys on the Buck Property, several conclusions may be drawn :

- the sample size, preparation and analytical method for Au is inadequate to detect, with confidence, the presence of Au in the soils; Au is not anomalous on any of the grids;
- the preparation and analytical method for the base metals does not produce adequate contrast to confidently define samples as 'anomalous';
- two roughly E-W oriented trends defined by anomalous and 'sub-anomalous' Cu, Pb and As occur on the Noke Grid which may reflect sulphide bearing structures or stratigraphy;
- anomalous Pb zones, with scattered Cu and Zn anomalies, occur on both the BSW-1/BSW-3 and BSW-2 soil grids which may be related to massive sulphide mineralisation; the Pb could be a residual anomaly, with Cu and, particularly, Zn being leached and concentrated nearby as hydromorphic anomalies;
- given the sample density of the grids (50 m) and the observed width of the quartz veins which have been mined historically (generally less than 3 m), only a small probability (¡ 10 %) exists of sampling material derived directly from the vein material;
- no information about the effect of the glacial cover can be discerned from the data; this till could be exotic and totally unrelated to the lithologies and possible mineralization which it covers.

Based on the above conclusions, the following actions are recommended :

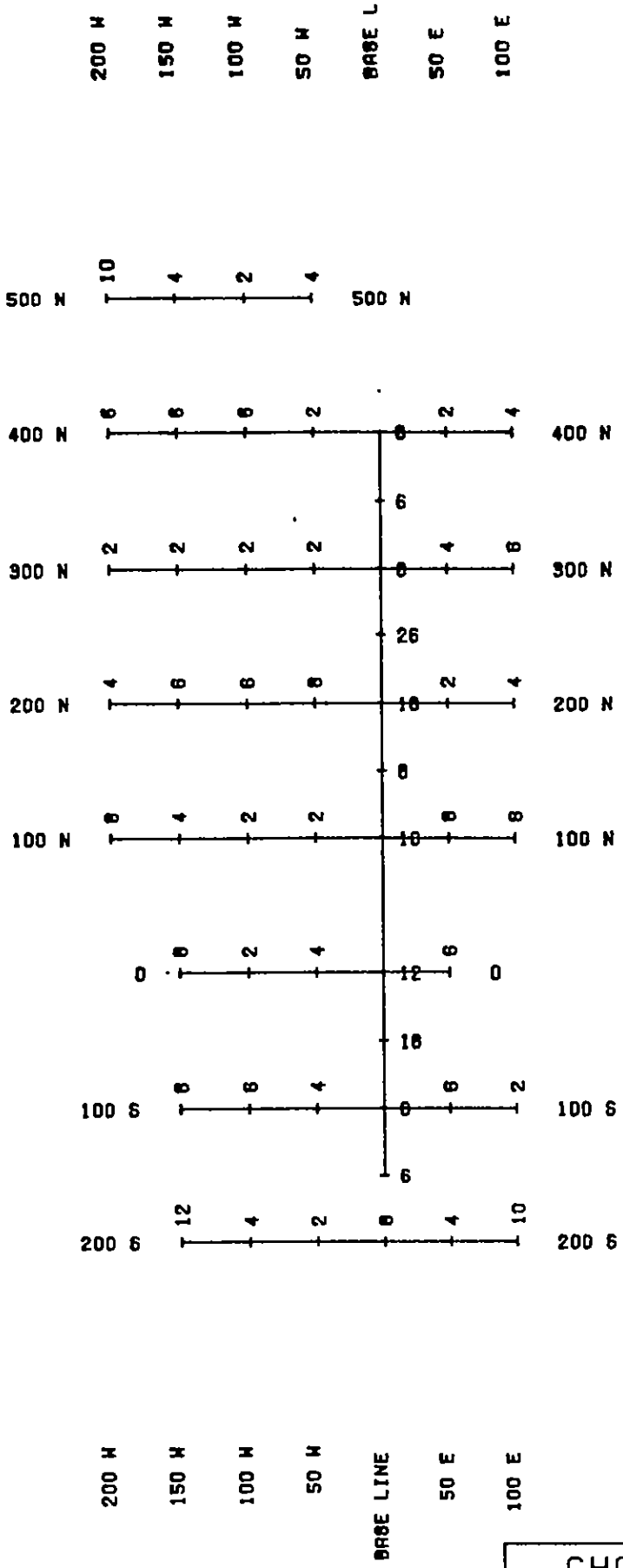
- an orientation survey of the soil method, using one of the known showings as a test case; from this an optimal sampling design and set of analytical procedures can be determined which will give confident detection of anomalies related to massive-sulphide, Au replacement and Au-quartz vein mineralization;

- before the commencement of any soil survey, an assessment of the glacial overburden and its effect on the detection of geochemical anomalies must be undertaken; this should include a study of the soil and overburden stratigraphy and provenence;

- follow-up of the described soil anomalies should consist of detailed soil sampling over the anomalies with the techniques defined by the orientation survey to confirm their existance;

- future soil grids should be located in known prospect areas where mineralisation has been observed or as indicated by regional stream sediment results; these should cover large areas to ensure that ore-related geochemical signatures are not missed due to glacial dispersion; small numbers of samples in soil grids are not recommended because little information regarding the relative concentration can be obtained;

- future soil grids should have nodes at 25 m or less if indicated by an orientation survey; analysis of the appropriate fraction should include an ICP multi-element (+ Hg) determination plus Au by fire assay preconcentration and atomic absorption finish; a barite specific analysis should also be included if found to be of value in the stream sediment and soil orientation surveys.



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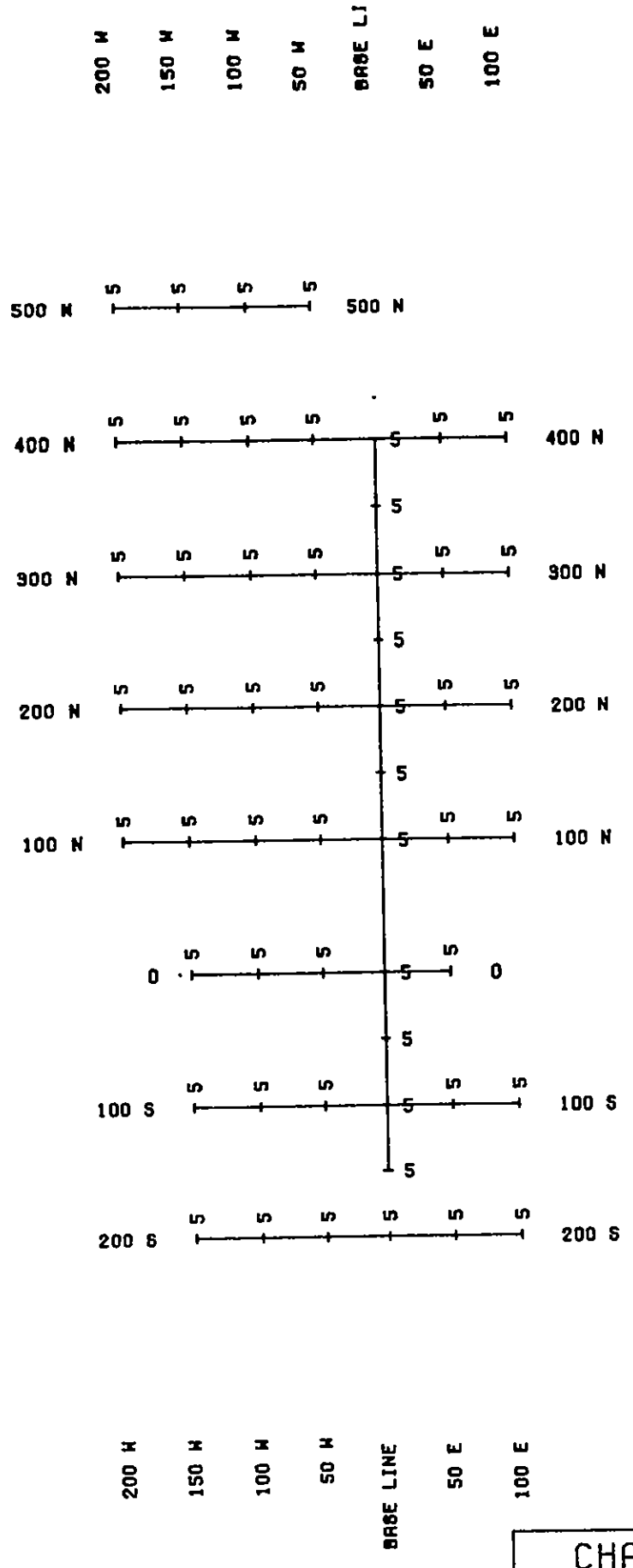
SOIL GEOCHEM SURVEY

ARSENIC PPM.

BUCK 2 CLAIMS WUHO BSW 2

MARCH 1988	FORT STEELE M.D.	FIG --

CYBERQUEST EXPLORATION SYSTEMS LTD.



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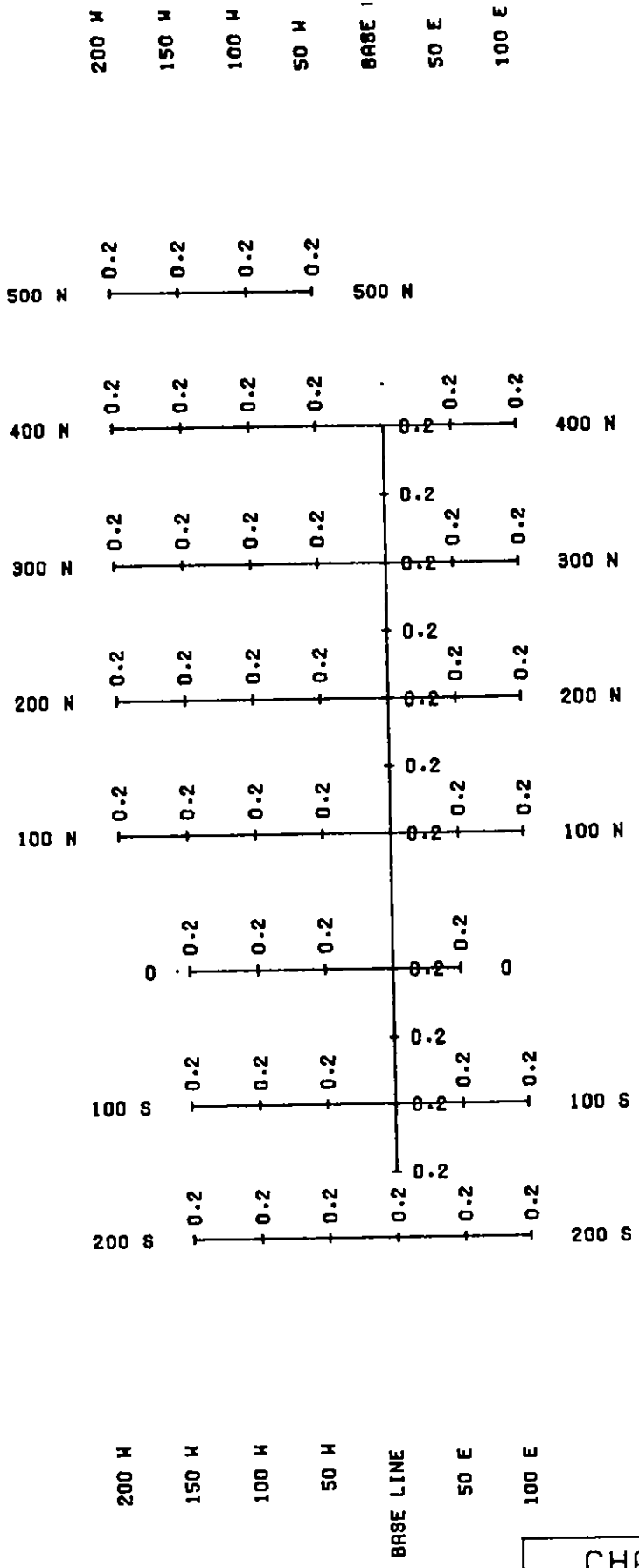
SOIL GEOCHEM SURVEY

GOLD PPB.

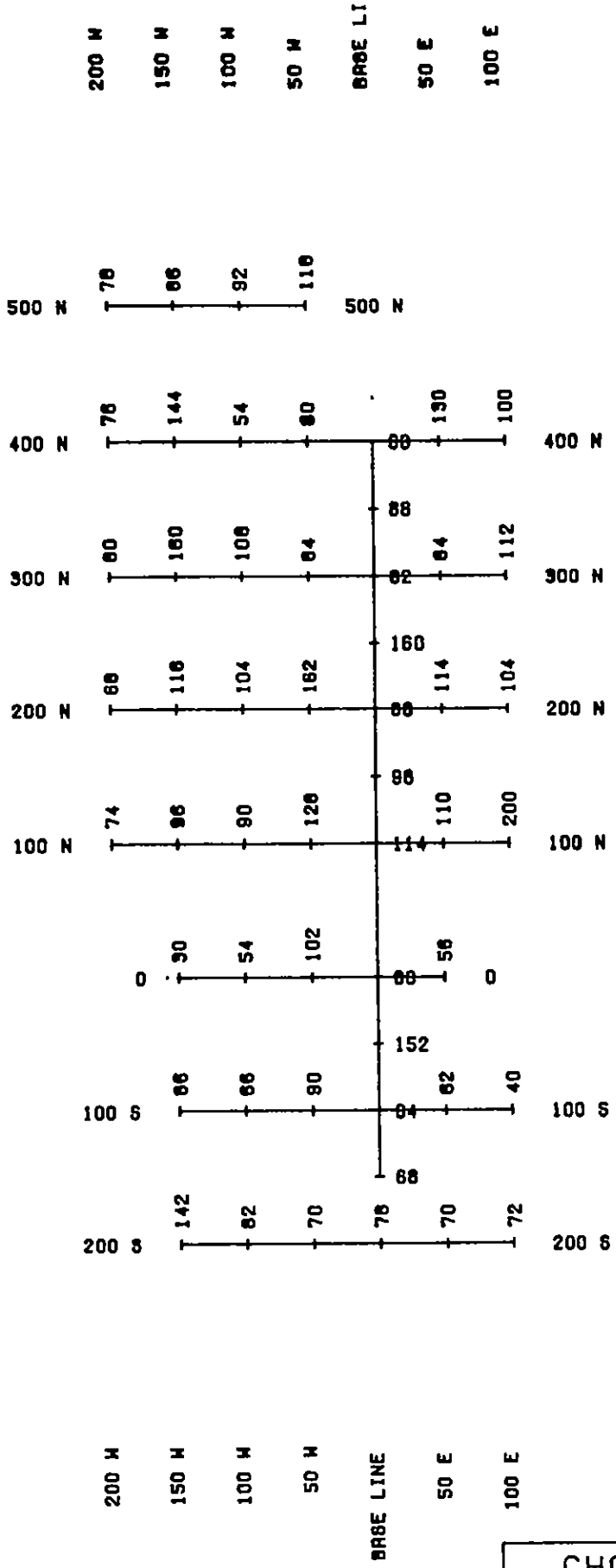
BUCK 2 CLAIMS WUHO BSW

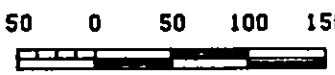
MARCH 1988	FORT STEELE M.D.	FIG

CYBERQUEST EXPLORATION SYSTEMS LTD



CHAPLEAU RESOURCES LTD		
SOIL GEOCHEM SURVEY SILVER PPM. BUCK 2 CLAIMS WUHO BSW 2		
MARCH 1988	FORT STEELE M.D.	FIG
CYBERQUEST EXPLORATION SYSTEMS LTD		





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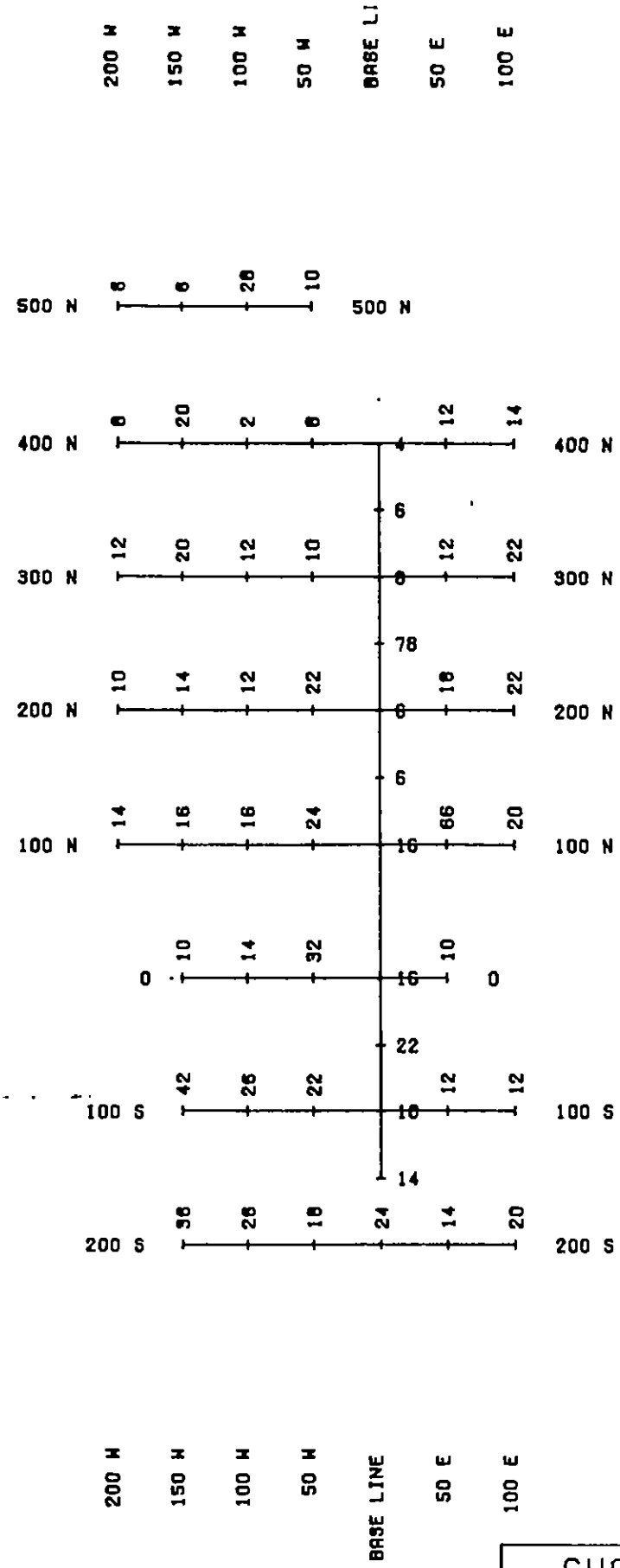
SOIL GEOCHEM SURVEY

ZINC PPM.

BUCK 2 CLAIMS WUHO BSW 2

MARCH 1988	FORT STEELE M.D.	FIG --

CYBERQUEST EXPLORATION SYSTEMS LTD.



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CHAPLEAU RESOURCES LTD.

SOIL GEOCHEM SURVEY

LEAD PPM.

BUCK 2 CLAIMS WUHO BSW 2

MARCH 1988	FORT STEELE M.D.	FIG --
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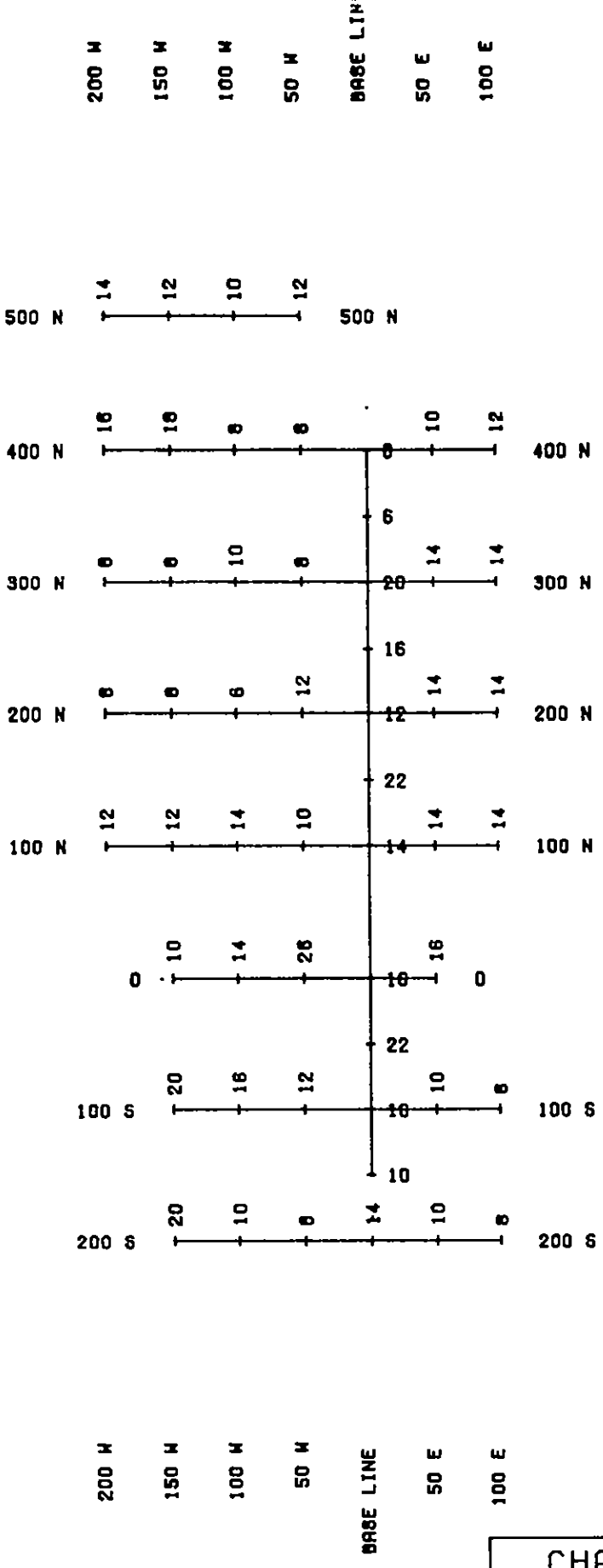
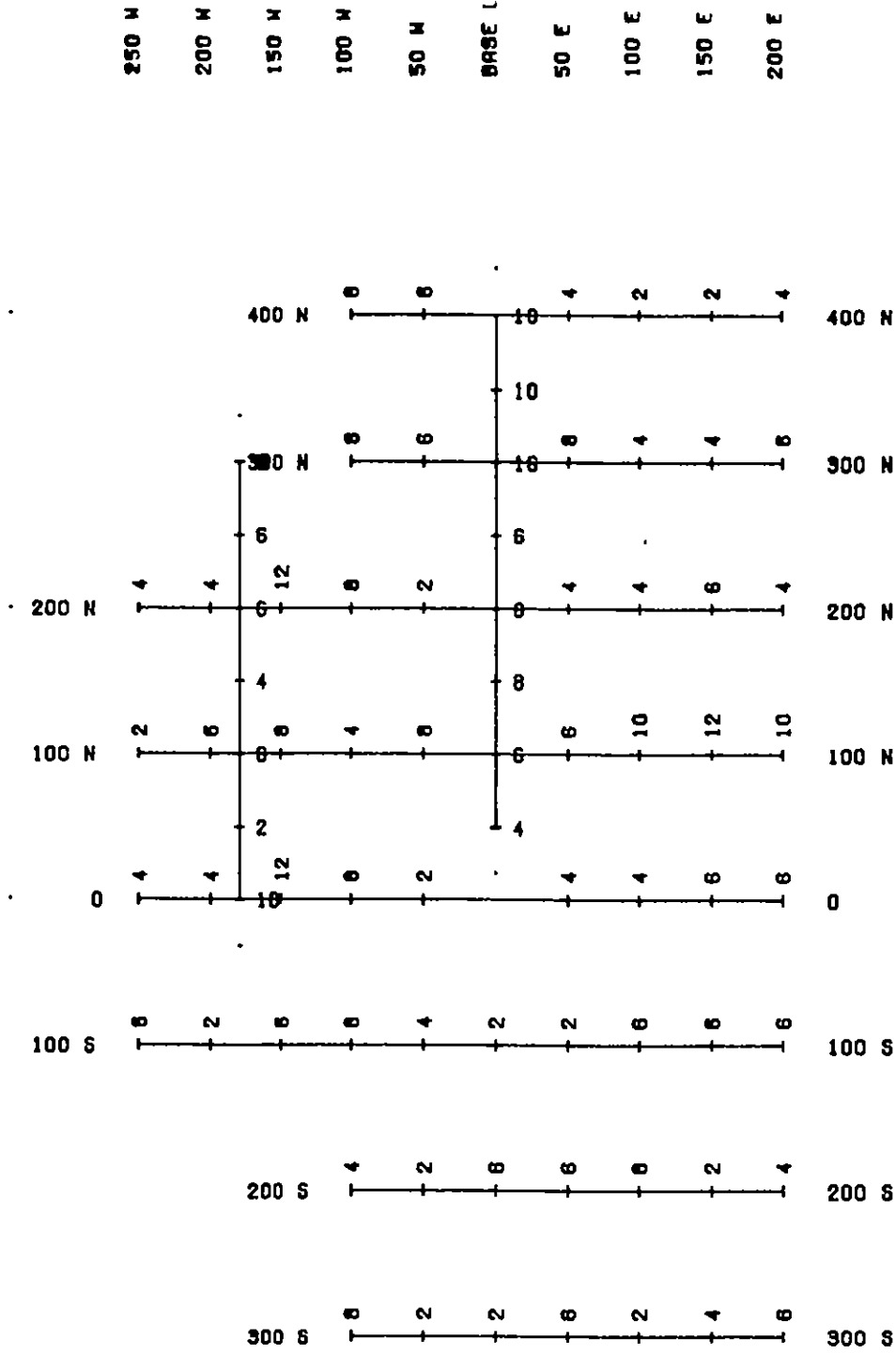


CHAPLEAU RESOURCES LTD.		
SOIL GEOCHEM SURVEY COPPER PPM. BUCK 2 CLAIMS WUH0 BSW 2		
MARCH 1988	FORT STEELE M.D.	FIG --
CYBERQUEST EXPLORATION SYSTEMS LTD.		



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SOIL GEOCHEM SURVEY

ARSENIC PPM.

BUCK 2 CLAIMS WUHO BSW 1 & 3

MARCH 1988	FORT STEELE M.D.	FIG --

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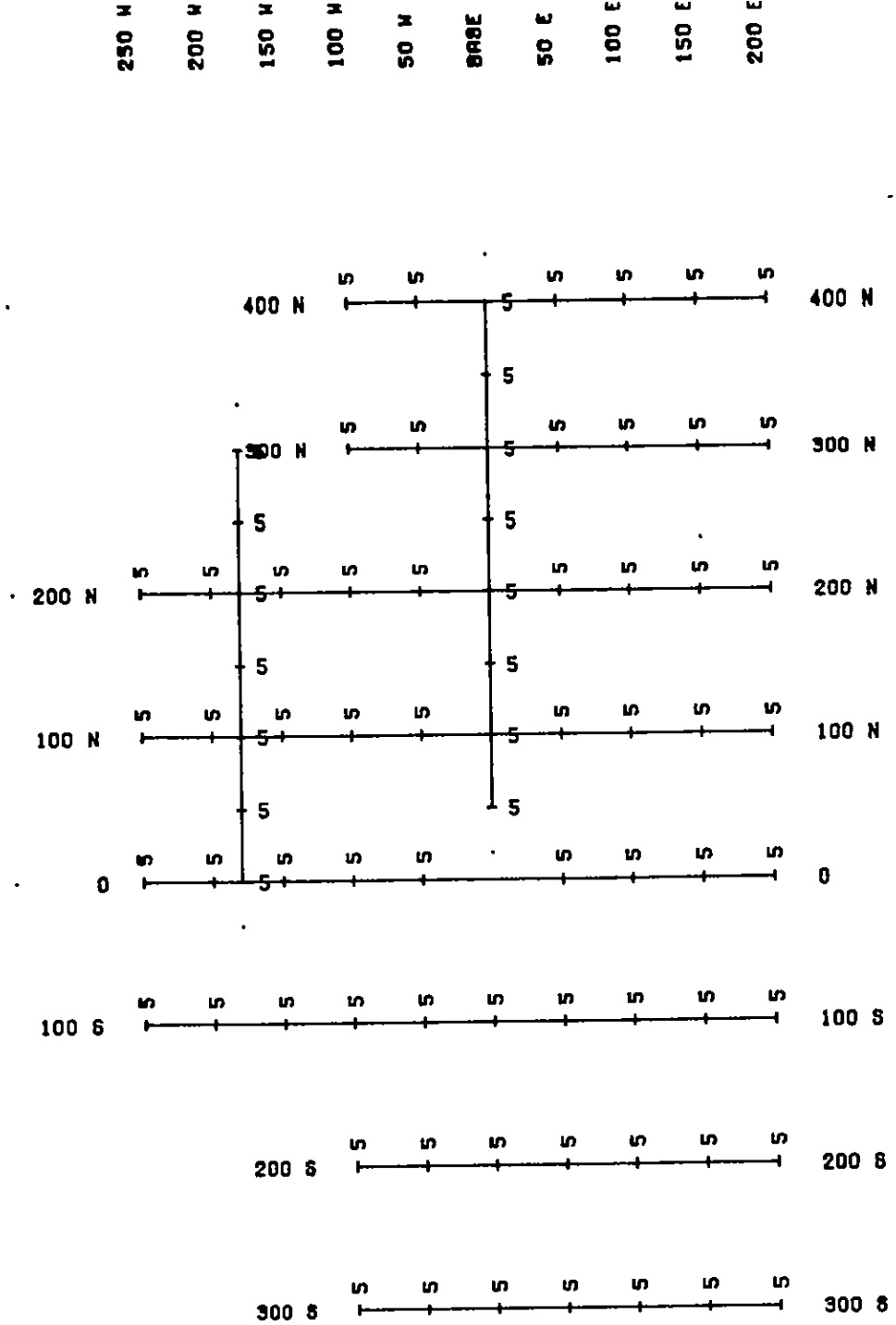

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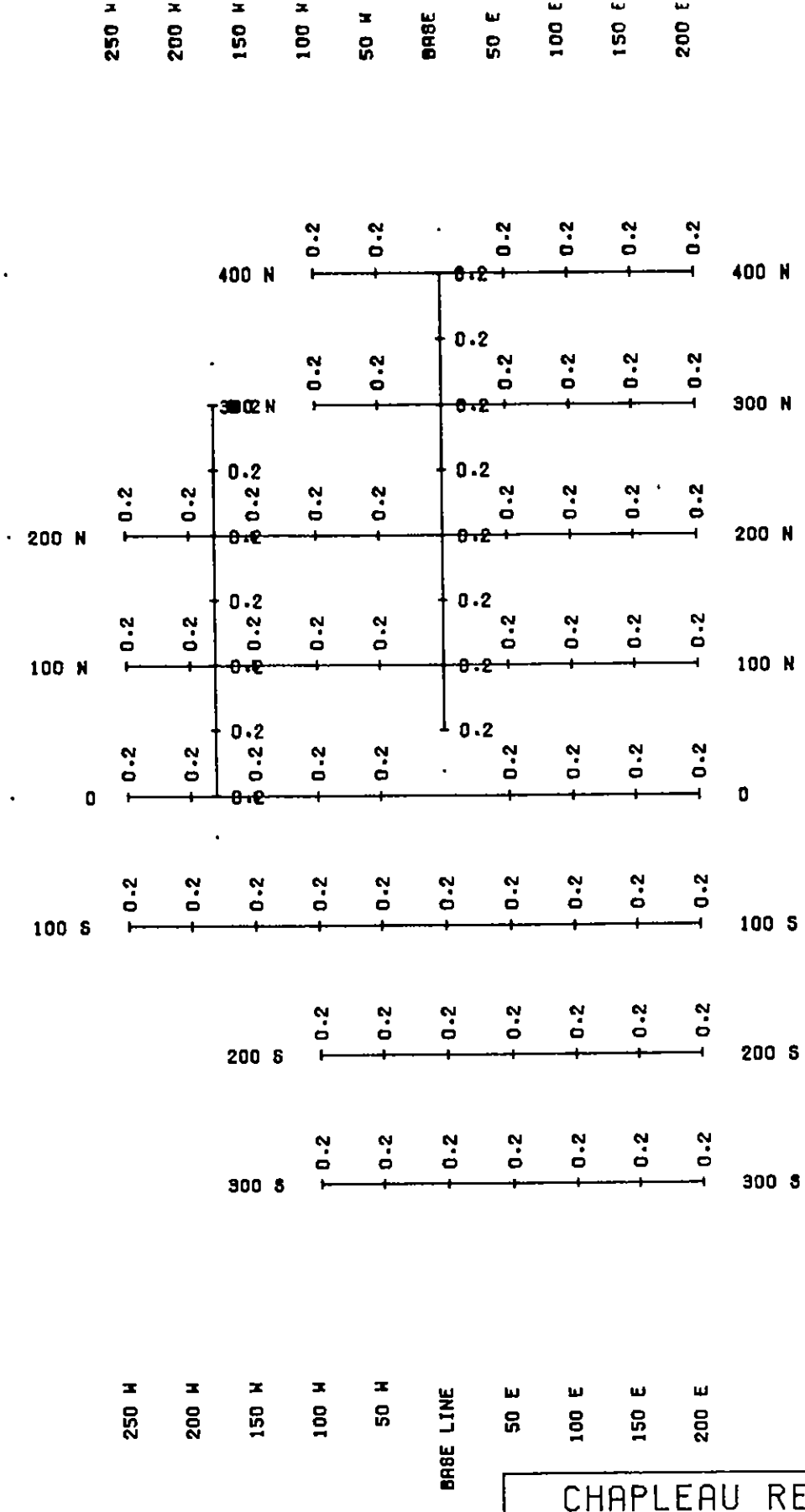
SOIL GEOCHEM SURVEY

GOLD PPB.

BUCK 2 CLAIMS WUHO BSW 1 & 3

MARCH 1988	FORT STEELE M.D.	FIG ---

CYBERQUEST EXPLORATION SYSTEMS LTD.



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SOIL GEOCHEM SURVEY

SILVER PPM.

BUCK 2 CLAIMS WUHO BSW 1 & 3

MARCH 1988	FORT STEELE M.D.	FIG ++

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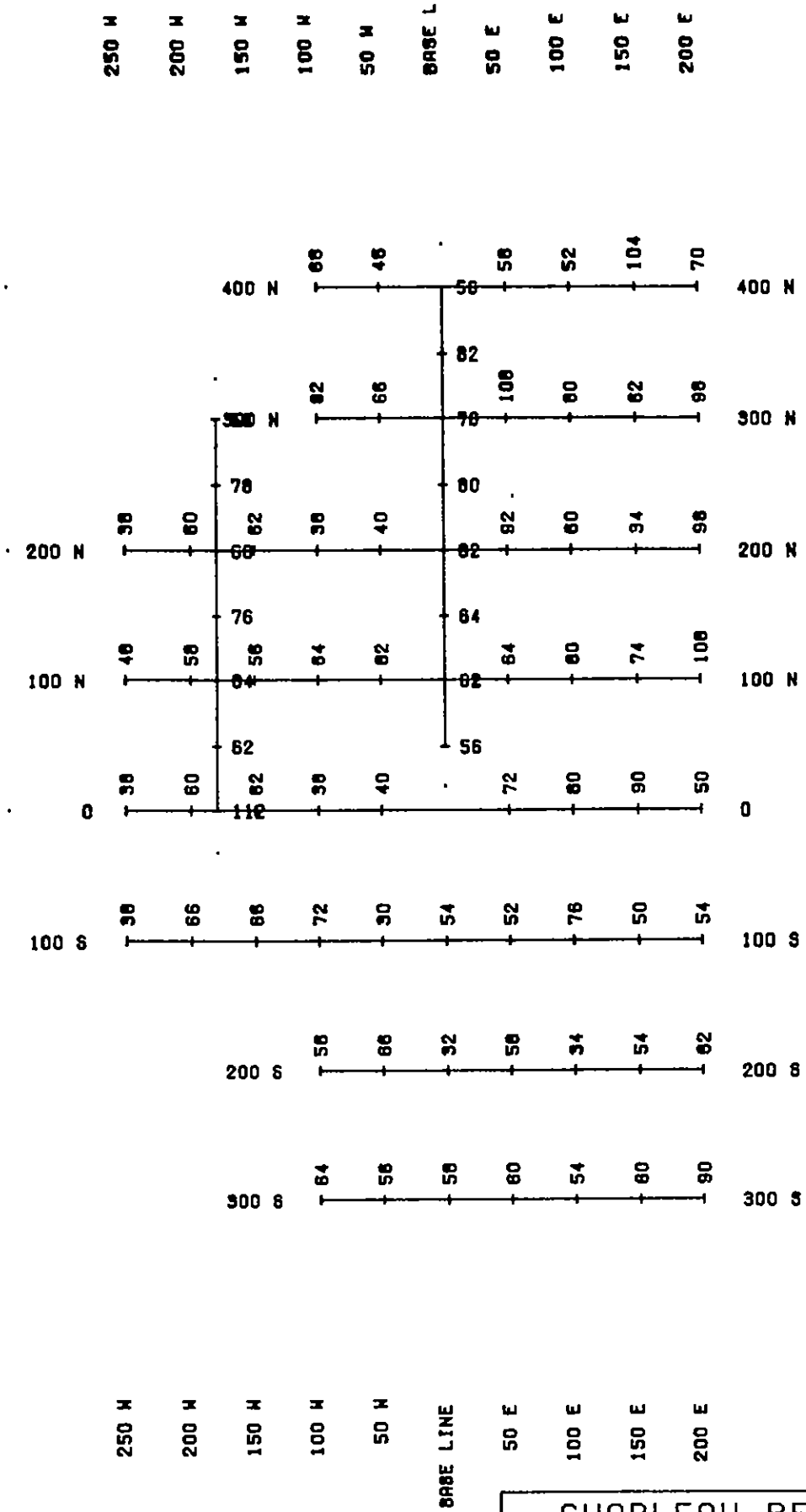


CHAPLEAU RESOURCES LTD.

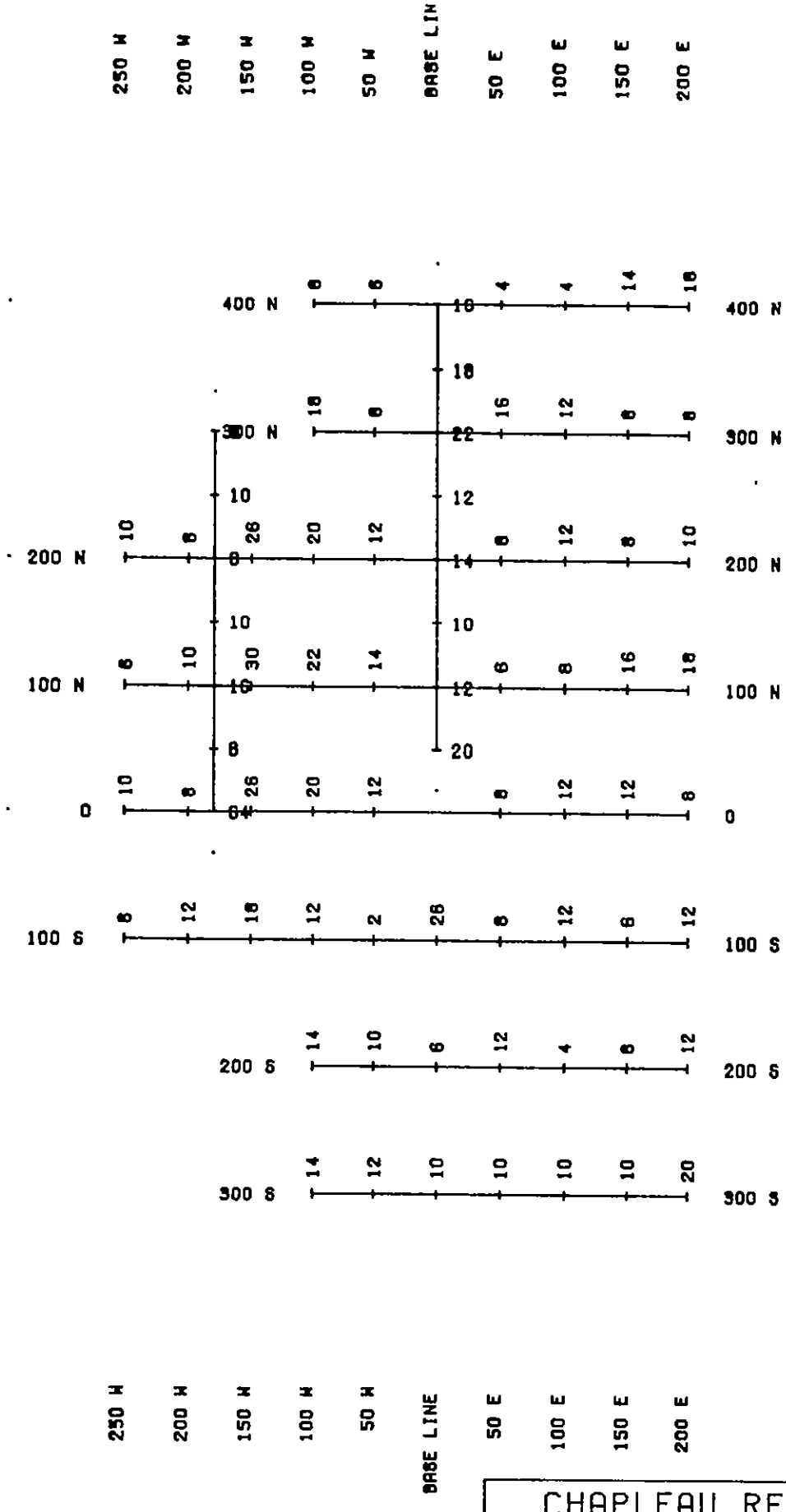
SOIL GEOCHEM SURVEY

ZINC PPM.

BUCK 2 CLAIMS WUHO BSW 1 & 3

MARCH 1988	FORT STEELE M.D.	FIG --

CYBERQUEST EXPLORATION SYSTEMS LTD.



250 W 200 W 150 W 100 W 50 W BASE LINE 50 E 100 E 150 E 200 E

50 0 50 100 150

CHAPLEAU RESOURCES LTD.

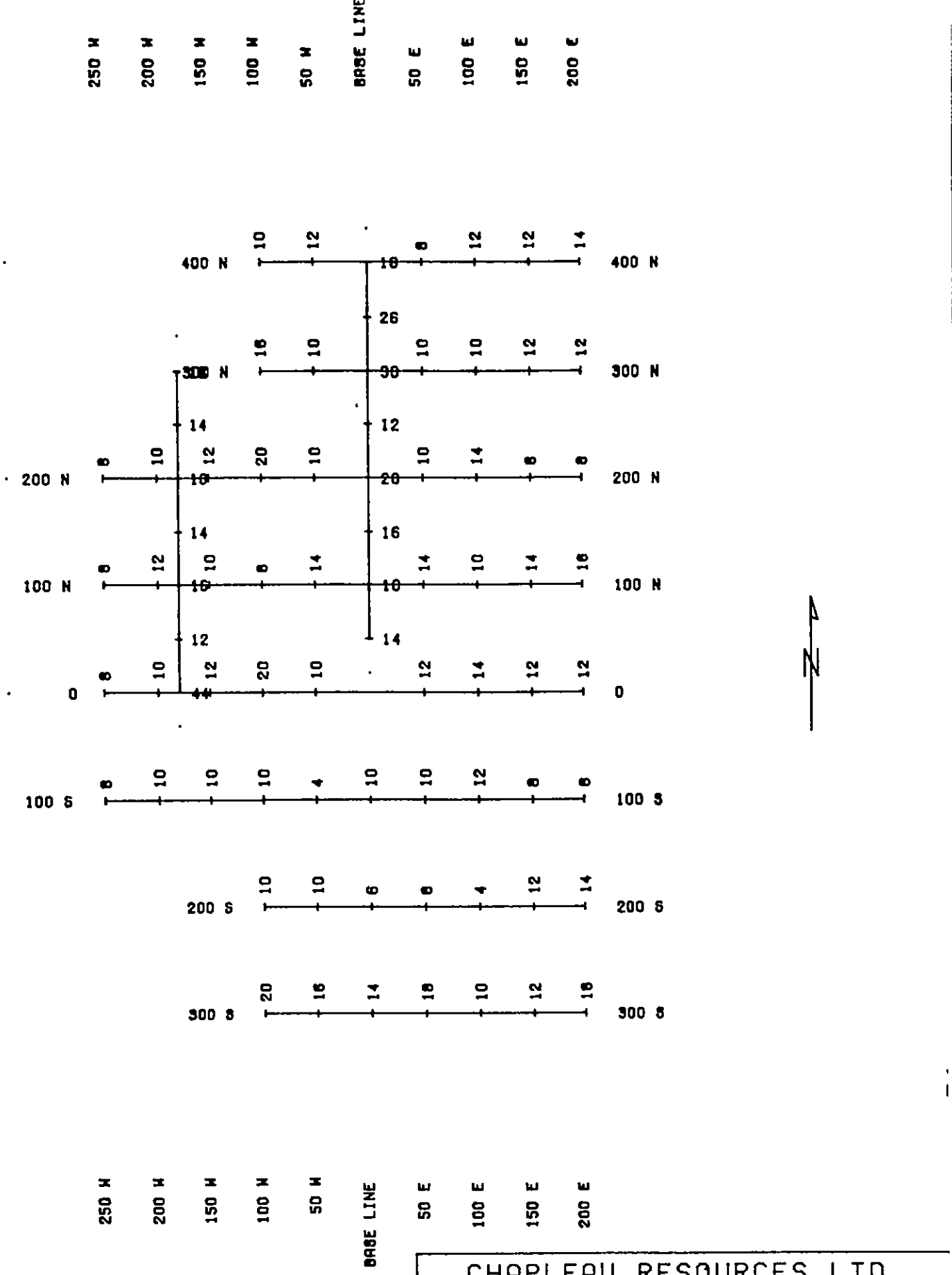
SOIL GEOCHEM SURVEY

LEAD PPM.

BUCK 2 CLAIMS WUHO BSW 1 & 3

MARCH 1988	FORT STEELE M.D.	FIG --

CYBERQUEST EXPLORATION SYSTEMS LTD.



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CHAPLEAU RESOURCES LTD.

SOIL GEOCHEM SURVEY

COPPER PPM.

BUCK 2 CLAIMS WUHO BSW 1 & 3

MARCH 1988	FORT STEELE M.D.	FIG --

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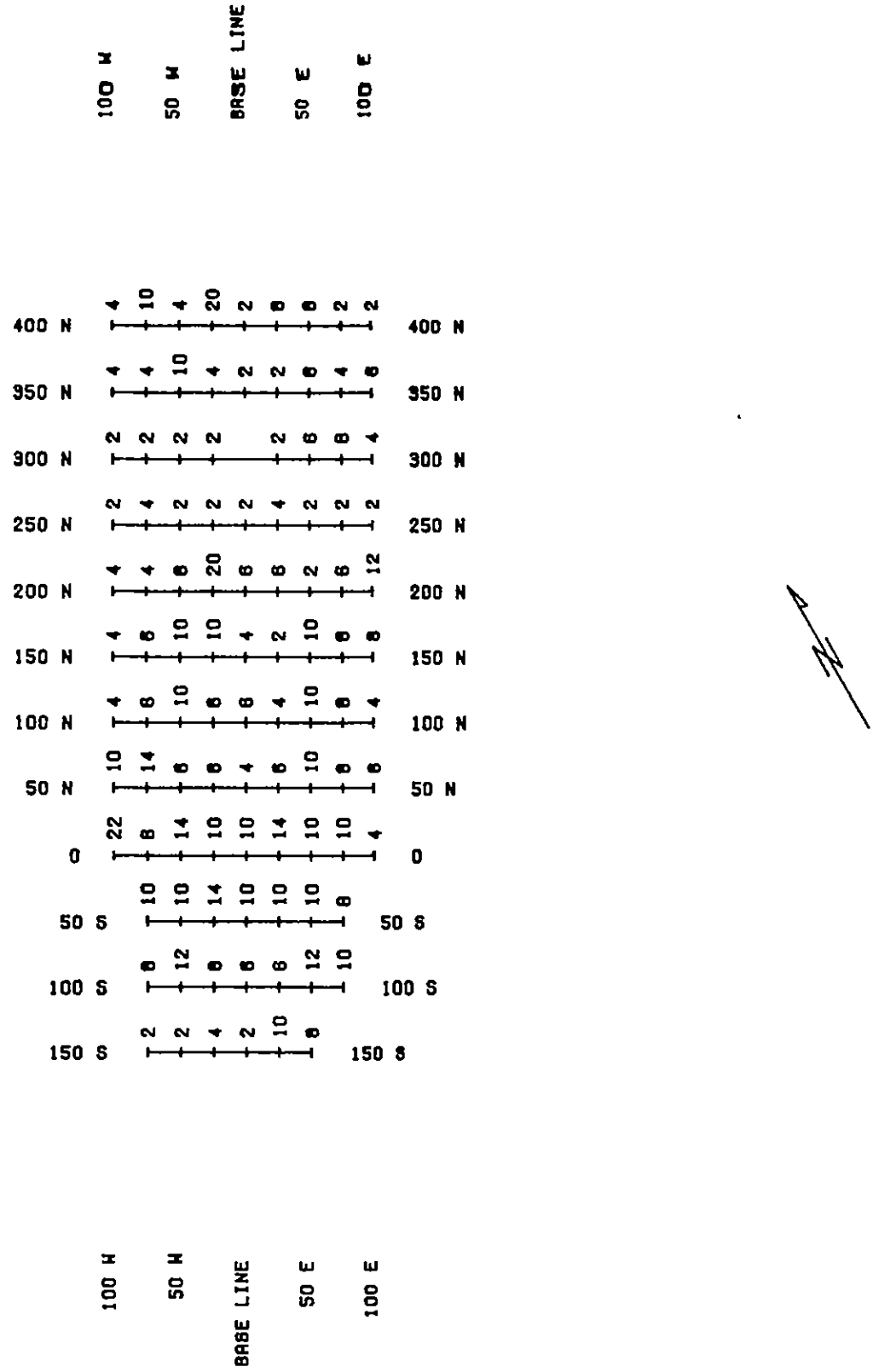

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SOIL GEOCHEM SURVEY

ARSENIC PPM.

BUCK 1 CLAIMS NOKE GRID

MARCH 1988	FORT STEELE M.D.	FIG --

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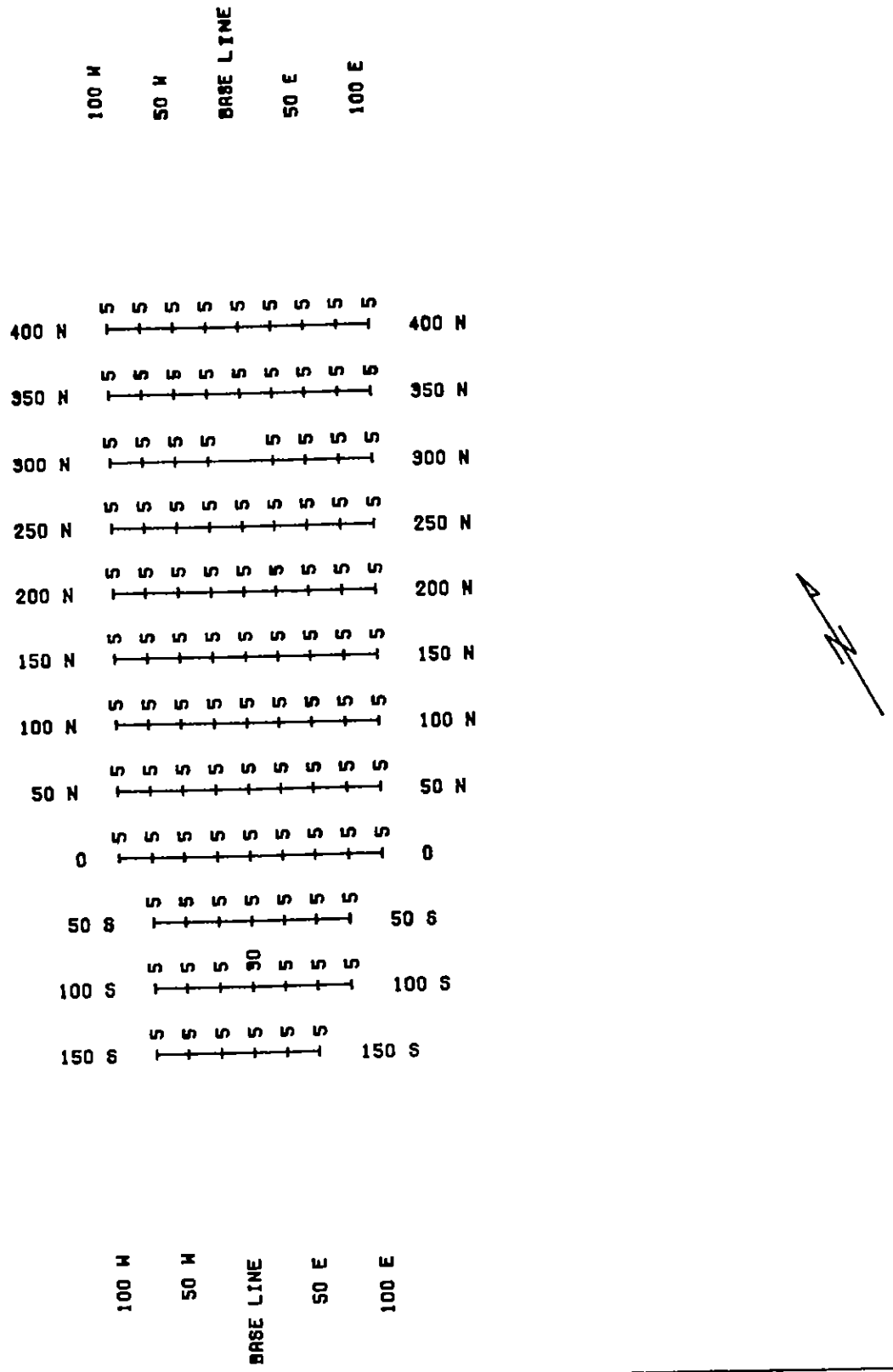

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CHAPLEAU RESOURCES LTD.

SOIL GEOCHEM SURVEY

GOLD PPB.

BUCK 1 CLAIMS NOKE GRID

MARCH 1988	FORT STEELE M.D.	FIG --

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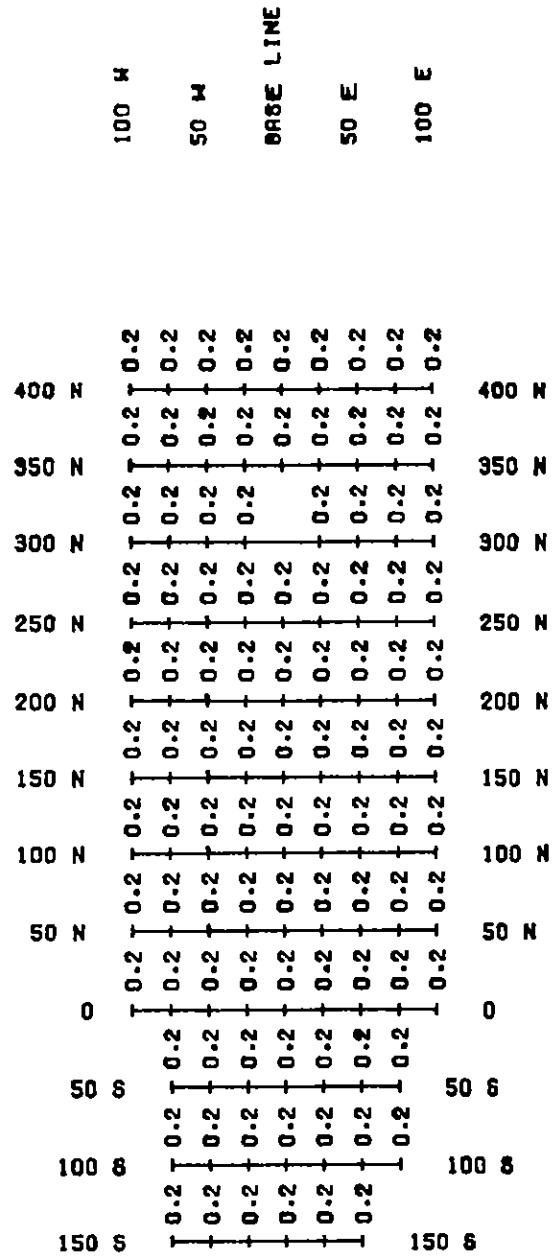

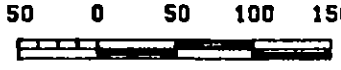

CHAPLEAU RESOURCES LTD.

SOIL GEOCHEM SURVEY

SILVER PPM.

BUCK 1 CLAIMS NOKE GRID

MARCH 1988	FORT STEELE M.D.	FIG --

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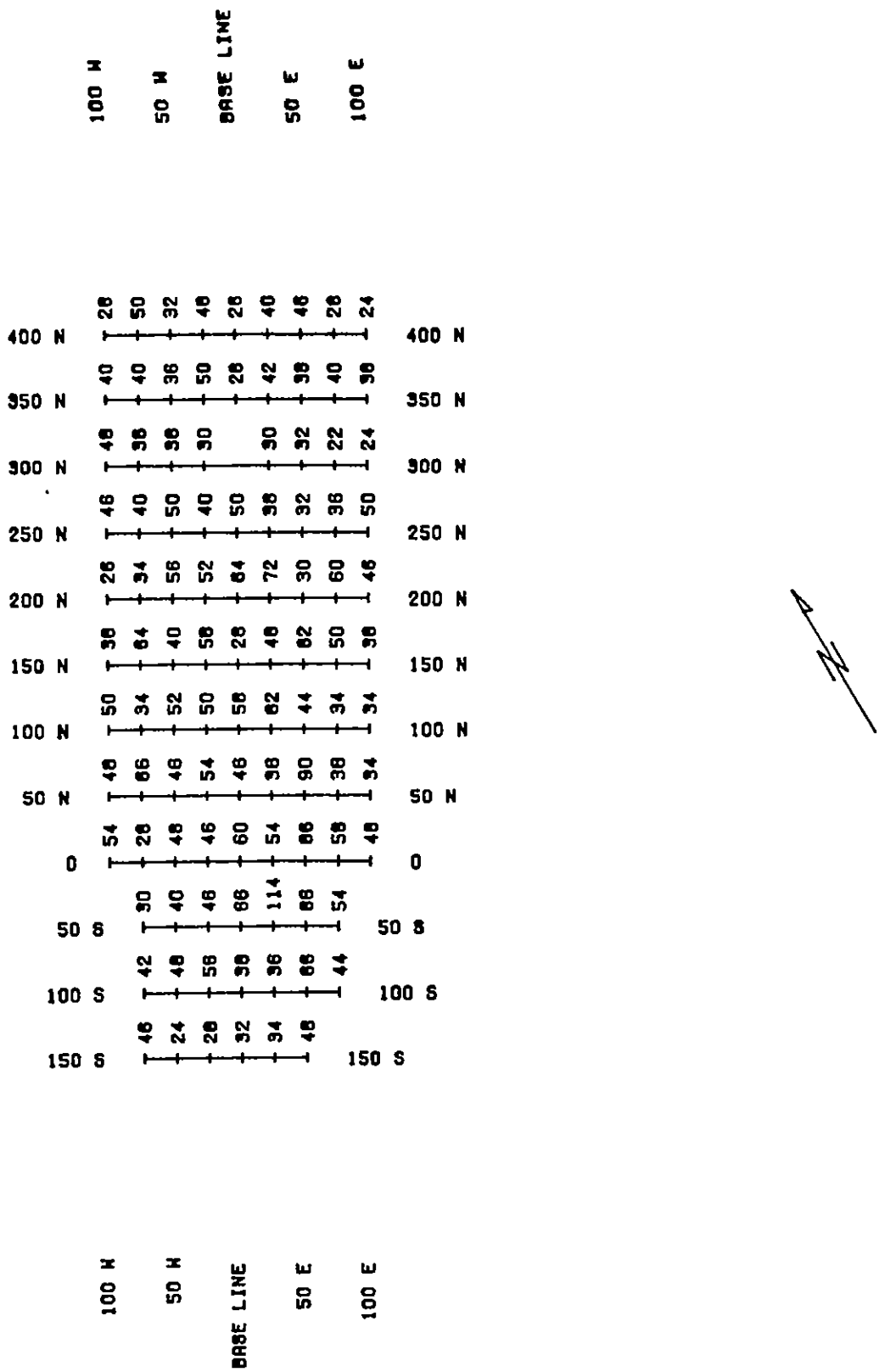

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SOIL GEOCHEM SURVEY

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BUCK 1 CLAIMS NOKE GRID

MARCH 1988	FORT STEELE M.D.	FIG --

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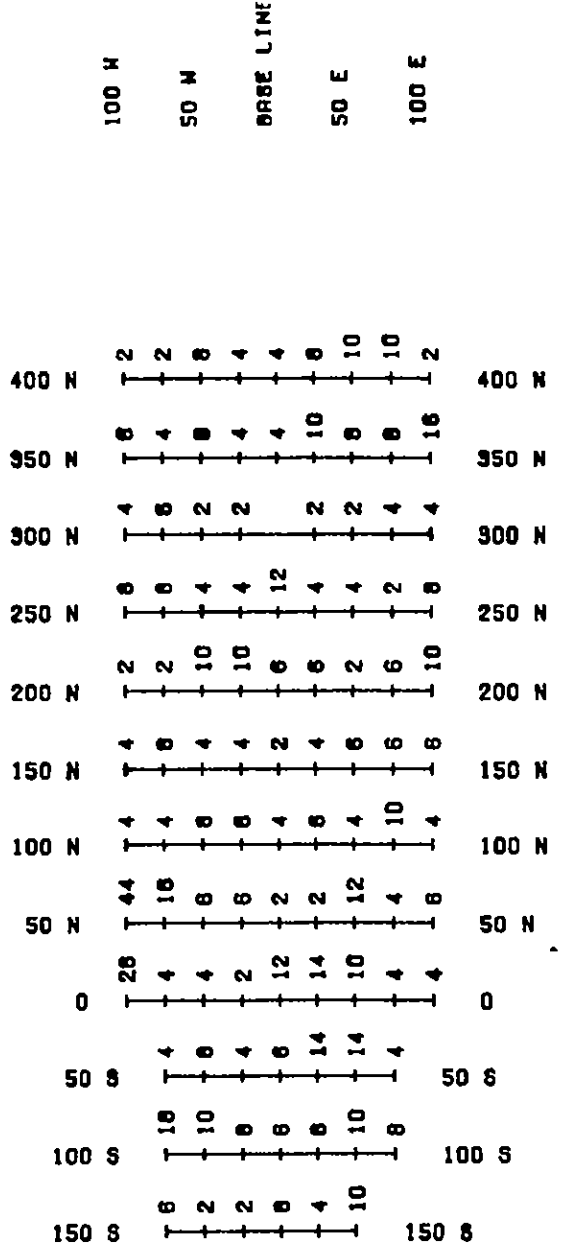

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SOIL GEOCHEM SURVEY

LEAD PPM.

BUCK 1 CLAIMS NOKE GRID

MARCH 1988	FORT STEELE M.D.	FIG

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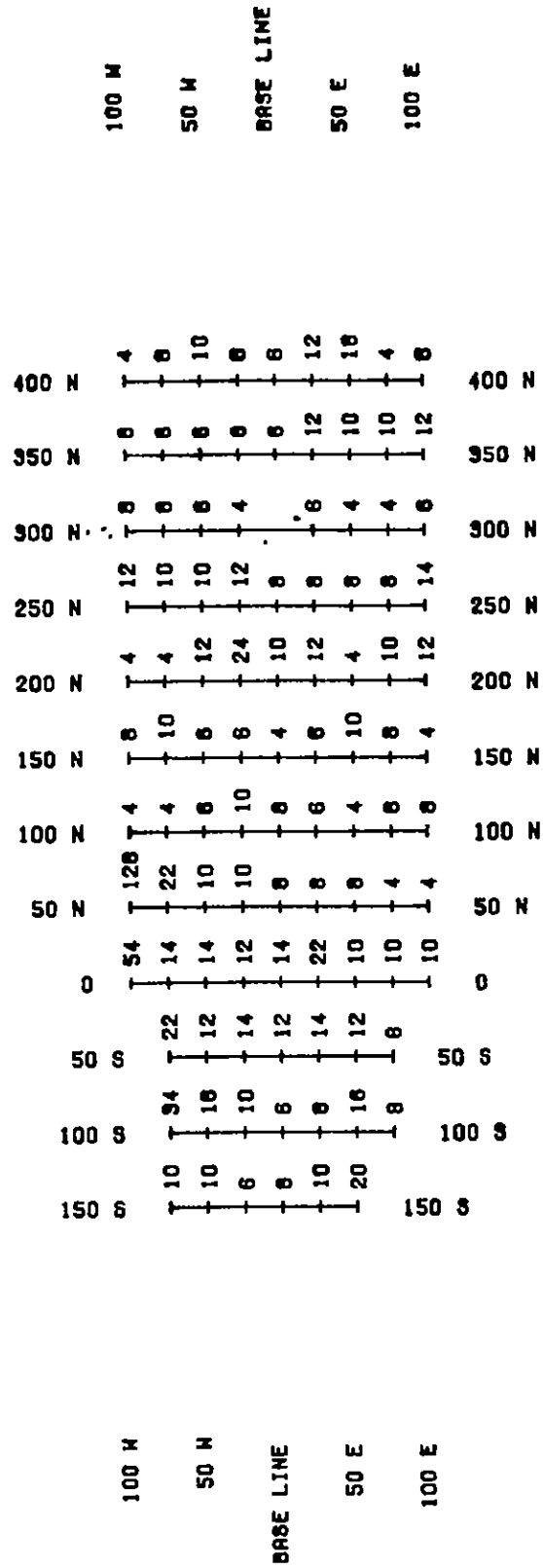

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SOIL GEOCHEM SURVEY

COPPER PPM.

BUCK 1 CLAIMS NOKE GRID

MARCH 1988	FORT STEELE M.D.	FIG #

CYBERQUEST EXPLORATION SYSTEMS LTD.

A PRELIMINARY REPORT ON THE 1987 SOIL GEOCHEMISTRY OF THE BAR PROPERTY, CRANBROOK, BRITISH COLUMBIA

John Harrop Clifford R. Stanley

CyberQuest Exploration Systems, Ltd.
Suite 210 - 830 W. Pender St.
Vancouver, B.C. V6C 1J8

March 18, 1988

1 Introduction

This report addresses the results of the soil geochemical surveys which were undertaken during the 1987 field season on the Bar Property, Cranbrook, British Columbia by Chapleau Resources. Exploration targets on the property, which also occur in similar host lithologies and geologic settings nearby, include sediment-hosted massive-sulphide mineralization similar to that at the Sullivan Mine and precious-metal (± base-metal) quartz veins, perhaps similar to those on the east side of Moyie Lake (the St. Eugene Mine). Possibilities also exist for bulk-tonnage low-grade replacement-type Au deposits in calcareous stratigraphy of the Purcell Supergroup. A discussion of the results of these surveys is included based largely on a statistical analysis of the geochemical determinations, and based on maps of the geochemical concentrations. Recommendations for further geochemical work on the property are also presented.

Sampling was carried out by Chapleau Resources' employees during August through September 1987 and all geochemical element determinations were made by Rossbacher Laboratory, Ltd. Samples consisted of 0.5 kg of fine grained stream sediment material collected from the active bed of the streams. These were air dried and seived to -80 mesh. A 0.5 gram sub-sample was digested with a 3:1 nitric:perchloric acid attack and analysed using atomic absorption spectrometry. Elements determined include Cu, Ag, Pb and As for all soil grids and lines. Zn was determined for only two of the four soil lines. Gold was determined by a similar method, except that 10 grams of -80 mesh material was subjected to an aqua regia digestion followed by pre-concentration in MIBK. No standards were included in the analytical batches so data quality could not be determined; however, several sample sites have duplicate samples allowing a rough assessment of sample site reproducibility.

Three soil grids (Quartz Pit/Horseshoe, Gossan Hill, BL-00/Float Train) and 4 soil lines (BL-1, BL-2, BL-5, BL-6) were sampled and maps presenting the sample locations and geochemical concentrations for these samples are presented in Appendix A. The grids are, for the most part, oriented N-S with 50 m between lines and 50 m between sample sites. The grids are irregular because numerous grid nodes could not be sampled. Soil lines are oriented in two orientations. BL-1 and BL-2 are parallel to each other, oriented roughly E-W and straddle both sides Palmer Bar Creek. BL-5 and BL-6 are also parallel, oriented roughly N-S, and have their northern termini along the south side of Palmer Bar Creek near those of soil lines BL-1 and BL-2. None of the soil lines are precisely straight, but all have been plotted on the same set of maps.

2 Statistical Analysis

2.1 Threshold Selection

A histogram and probability plot analysis (Sinclair 1974, 1976; Stanley 1987) of the geochemical concentrations was made on all of the data from the three soil grids and four soil

lines. Output of these statistical results are presented in Appendix B.

Results indicate that all elements have subdued abundances and exhibit positively skewed distributions. Low element abundances are common in Belt-Purcell soils, even over sulphide mineralisation, because of the overall low absorptive capacity of the soils (low clay and Fe-oxy-hydroxide mineral content; Stanley 1984). This allows the easy leaching of the soluble base metals from the soils, despite high element concentrations in the source-bearing subjacent bedrock. The positive skewness of the element distributions probably results from a large number of 'background' concentrations and a small number of 'highly anomalous' concentrations which may possibly be related to economic mineralisation.

2.1.1 Copper

The Cu distribution appears to have a trimodal, log-normal form. One mode consisting of a large group of samples, exhibiting what are interpreted to be 'background' Cu concentrations and a mean of 15 ppm. Assymetric ±1 standard deviation values about this mean are 25 and 9 ppm, respectively. A second group of samples of higher abundance can be distinguished from this 'background' group. This group of samples has a mean of 70 ppm (± 94,54). The third group of samples has a mean of 194 ppm (± 280,136). The higher two modes have concentrations interpreted to be 'anomalous'. The second and third groups of 'anomalous' samples may be related to lithologies containing elevated Cu concentrations or to Cu-sulphide-bearing strata. A threshold which discriminates the 'background' and 'anomalous' sample groups occurs at approximately 40 ppm, while on that discriminates the two 'anomalous' groups occurs at 110 ppm.

2.1.2 Silver

Silver concentrations are positively skewed and range up to 4.0 ppm. A threshold of 0.6 ppm (3× the detection limit of 0.2 ppm) can be used to distinguish 'background' from 'anomalous' concentrations.

2.1.3 Zinc

Zinc concentrations exhibit only moderate positive skewness and the frequency distribution of the concentrations can be modelled with a mixture of three normal distribution. The lowest mode has a mean of 59 ppm and standard deviation of 13 ppm and probably represents 'background' concentrations. The middle mode, with a mean and standard deviation of 92 and 15 ppm, may reflect 'background' or 'anomalous' concentrations. The highest mode, with a mean concentration of 137 ppm (± 20 ppm) is classified as 'anomalous'. A threshold which distinguishes the lowest mode of samples from the middle mode occurs at 70 ppm, and the threshold between the higher two modes occurs at 120 ppm.

2.1.4 Lead

Lead concentrations also exhibit a positive skew and have an overall low abundance (with a maximum concentration of 116). Lead appears to be log-normally distributed with minor negative deviation in lower concentrations (interpreted to be due to truncation of the distribution by the detection limit). A possible second distribution on the high concentraion tail of the distribution is not of substantial enough size to obtain estimates of its mean and standard deviation values, but it can be distinguished from the 'background' group of samples by a threshold of 32 ppm (the mean plus 2 standard deviations value).

2.1.5 Gold

Gold concentrations on the Bar Property are extremely positively skewed with a maximum value of 130 ppb. Since 98 % of the samples report concentrations of 5 or 10 ppb, 'anomalous' concentrations can be considered those greater than 15 ppb.

2.1.6 Arsenic

Arsenic exhibits a bimodal normal distribution and a maximum concentration of 60 ppm. The lower mode consists of concentrations below approximately 18 ppm and probably represents 'background' sources. The higher mode, with a mean of 17 ppm and a standard deviation of 4 ppm is probably 'anomalous' and may be related to sulphide-bearing strata. A threshold of 18 ppm separates the 'anomalous' and 'background' sample groups.

3 Interpretation

Data posting plots are discussed in five sections related to each of the three soil grid areas and a combined summary of the soil line results. (Locations p.9)

3.1 Quartz Pit/Horseshoe Grid

Highly 'anomalous' Cu concentrations occur alonf the base and 50 W lines. These define a distinct 'anomalous' zone. 'Anomalous' Ag, Pb, Au and As occur SE of this zone in an irregular pattern, but, significantly, not over it. This may suggest that the element distribution pattern is largely a function of secondary dispersion processes. The high concentrations of most elements on this grid do suggest that presence, somewhere, of a sulphide bearing source.

3.2 Gossan Hill Grid

'Anomalous' Cu concentrations occur in two well defined anomalies on the Gossan Hill soil grid. These occur at 100 N, 75 W to 100 N, 200 W (plus at site 200 N, 150 W) and at 300 N, 100 E to 300 N, 250 E. Scattered 'anomalous' Ag, Au, Pb and As also occur in

these sites. These 'anomalies' may be related to sulphide bearing lithologies beneath the soil grid.

3.3 BL-00/Float Train Grid

Generally, 'anomalous' concentrations of the elements do not occur on the BL-00/Float Train soil grid. No distinct 'anomalous' zone is defined by any element; however, higher 'background' concentrations of Cu occur along the two northern-most grid lines. Gold concentrations are all at the detection limit and Ag concentrations cannot be distinguished from its detection limit.

3.4 Soil Lines 1, 2, 5 and 6

Soil Lines 1, 2, 5 and 6 define several suspected 'anomalous' zones. Sightly 'anomalous' As, Pb and Zn concentrations occur at several locations along lines 5 and 6. These do not generally overlap each other, and thus may represent differential dispersion of As, Pb and Zn. Samples from all soil lines report no 'anomalous' Ag and Cu concentrations, but Au several anomalies occur along line 1 which may deserve follow-up.

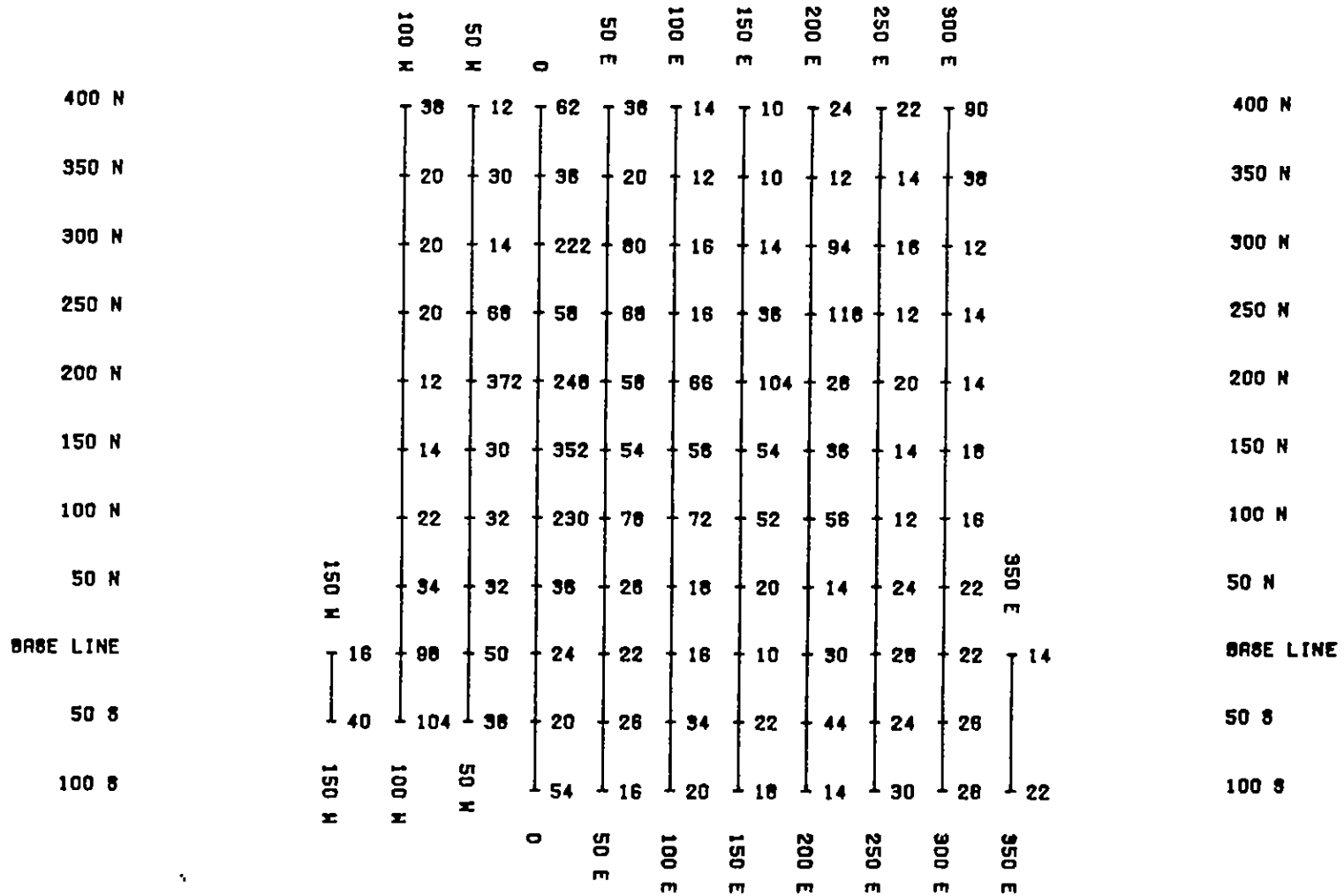
4 Conclusions and Recommendations

Based on the results of the 1987 soil surveys on the Bar Property, several conclusions may be drawn :

- the sample size, preparation and analytical method for Au is inadequate to detect, with confidence, the presence of Au in the soils;
- the preparation and analytical method for the base metals does not produce adequate contrast to confidently define samples as 'anomalous';
- 'anomalous' zones of Pb, Zn, As and sometimes Ag and Au occur on the Gossan Hill and Quartz Pit/Horseshoe grids and along several of the soil lines; geometries of these zones suggest that they are a product of differential dispersion;
- given the sample density of the grids (50 m) and the observed width of the quartz veins which have been mined historically (generally less than 3 m), only a small probability ($\downarrow$ 10 %) exists of sampling material derived directly from the vein material;
- no information about the effect of the glacial cover can be discerned from the data; this till could be exotic and totally unrelated to the lithologies and possible mineralization which it covers.

Based on the above conclusions, the following actions are recommended :

- an orientation survey of the soil method, using one of the known showings as a test case; from this an optimal sampling design and set of analytical procedures can be determined which will give confident detection of anomalies related to massive-sulphide, Au replacement and Au-quartz vein mineralisation;
- before the commencement of any soil survey, an assessment of the glacial overburden and its effect on the detection of geochemical anomalies must be undertaken; this should include a study of the soil and overburden stratigraphy and provenence;
- follow-up of the described soil anomalies should consist of detailed soil sampling over the anomalies with the techniques defined by the orientation survey to confirm their existance;
- future soil grids should be located in known prospect areas where mineralisation has been observed or as indicated by regional stream sediment results; these should cover large areas to ensure that ore-related geochemical signatures are not missed due to glacial dispersion; small numbers of samples in soil grids are not recommended because little information regarding the relative concentration can be obtained;
- future soil grids should have nodes at 25 m or less if indicated by an orientation survey; analysis of the appropriate fraction should include an ICP multi-element (+ Hg) determination plus Au by fire assay preconcentration and atomic absorption finish; a barite specific analysis should also be included if found to be of value in the stream sediment and soil orientation surveys.



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SOIL GEOCHEM SURVEY

COPPER PPM.

Q-BAR QUARTS PIT & HO ESHOE

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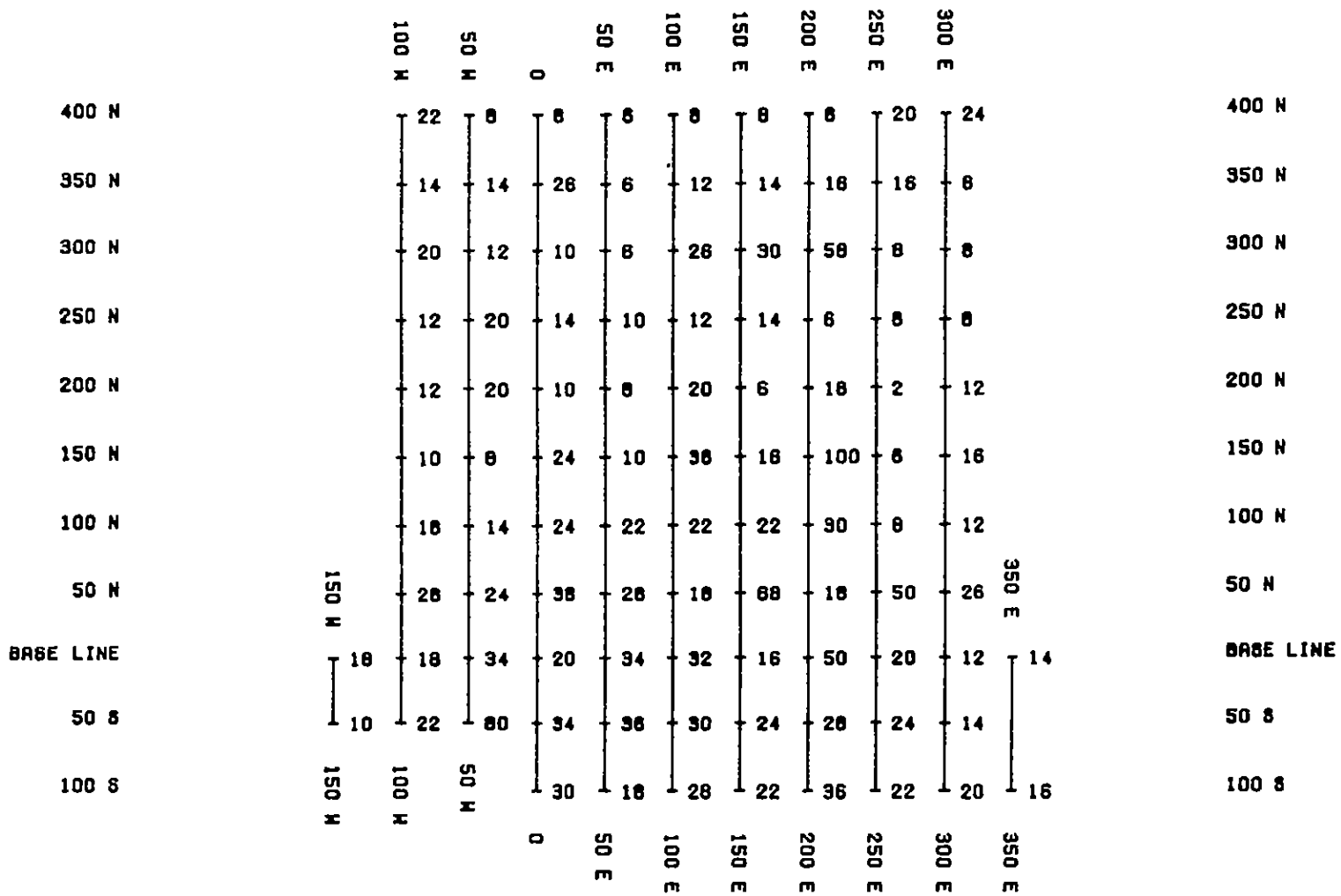

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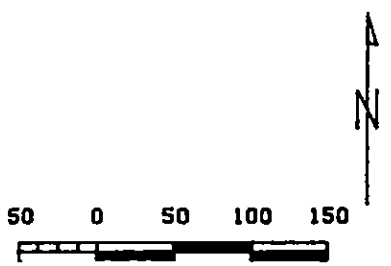

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SOIL GEOCHEM SURVEY

LEAD PPM.

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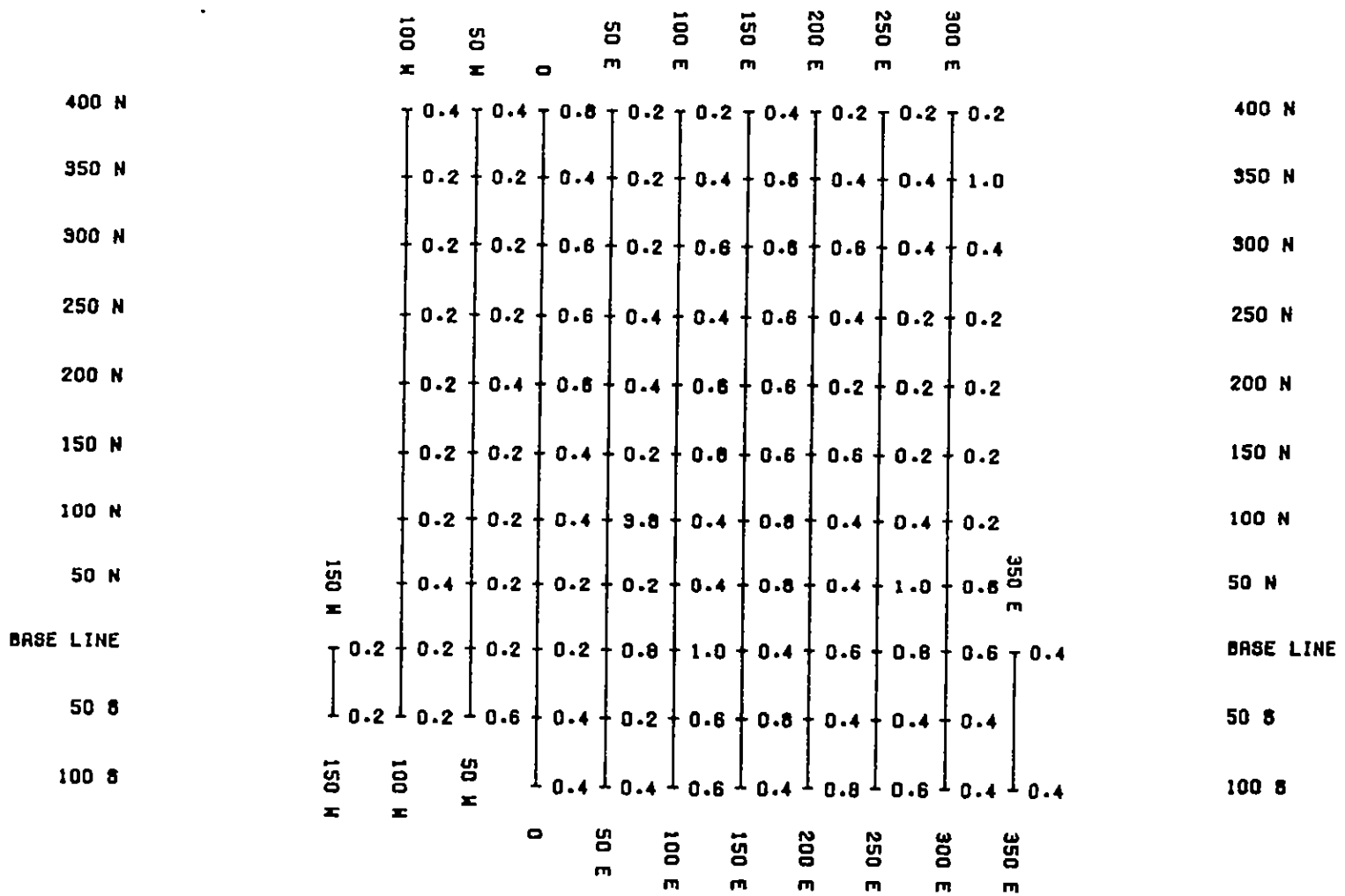

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SOIL GEOCHEM SURVEY

SILVER PPM.

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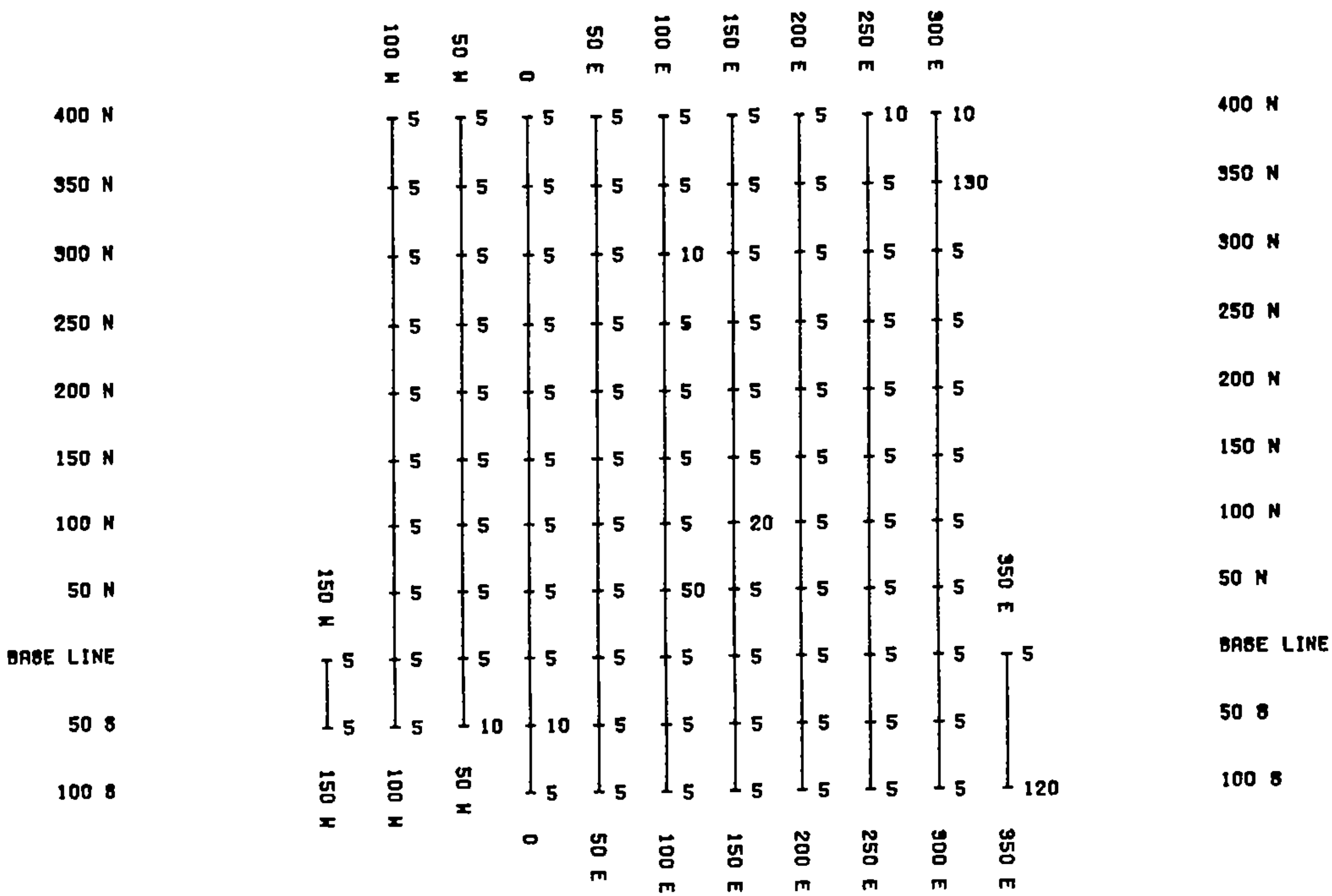

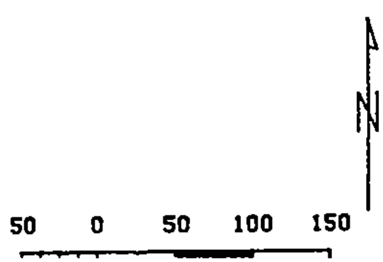

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SOIL GEOCHEM SURVEY

GOLD PPB.

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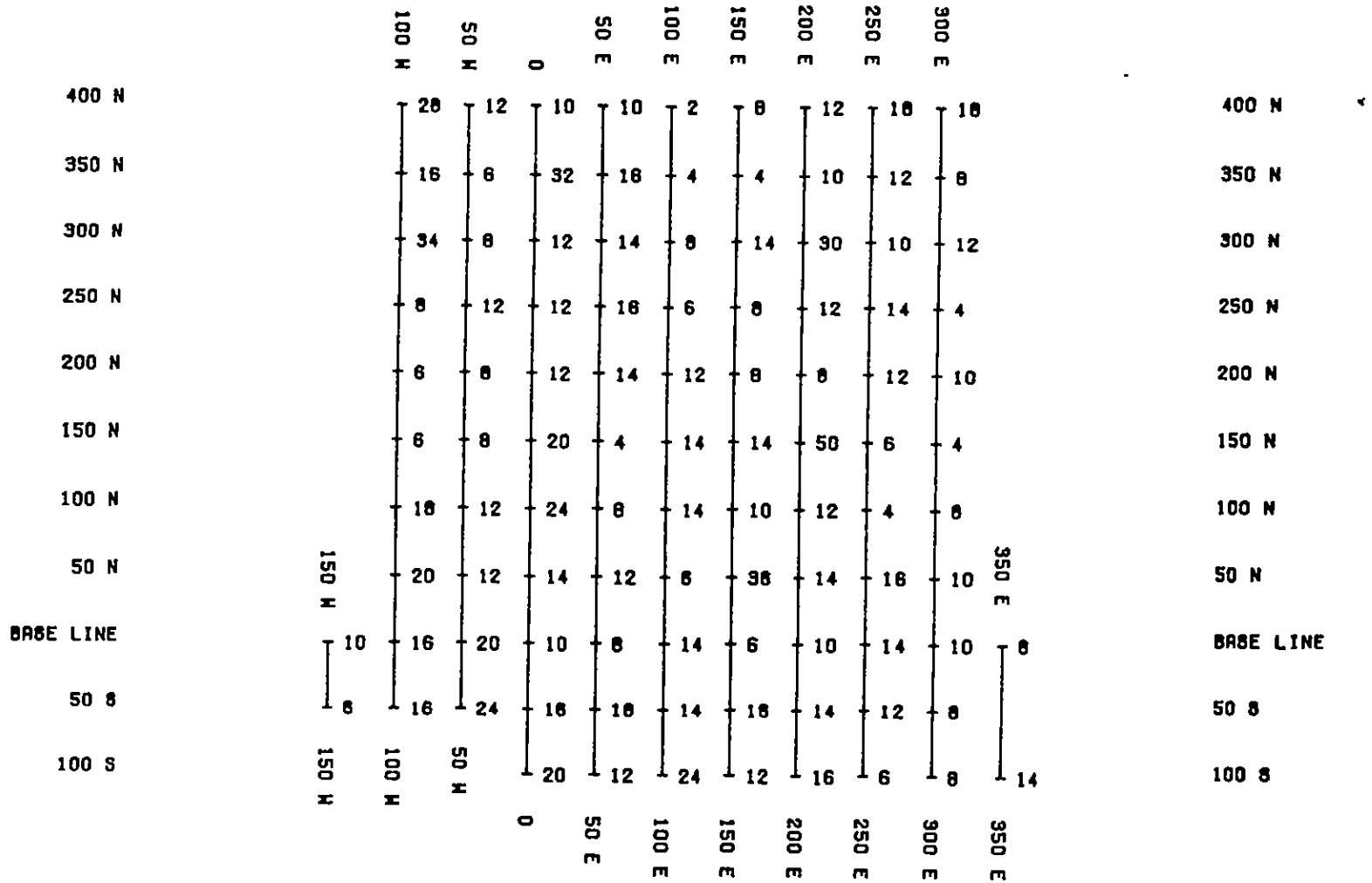
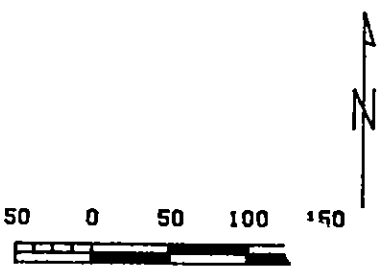
MARCH 1988	FORT STEELE M.D.	FIG --





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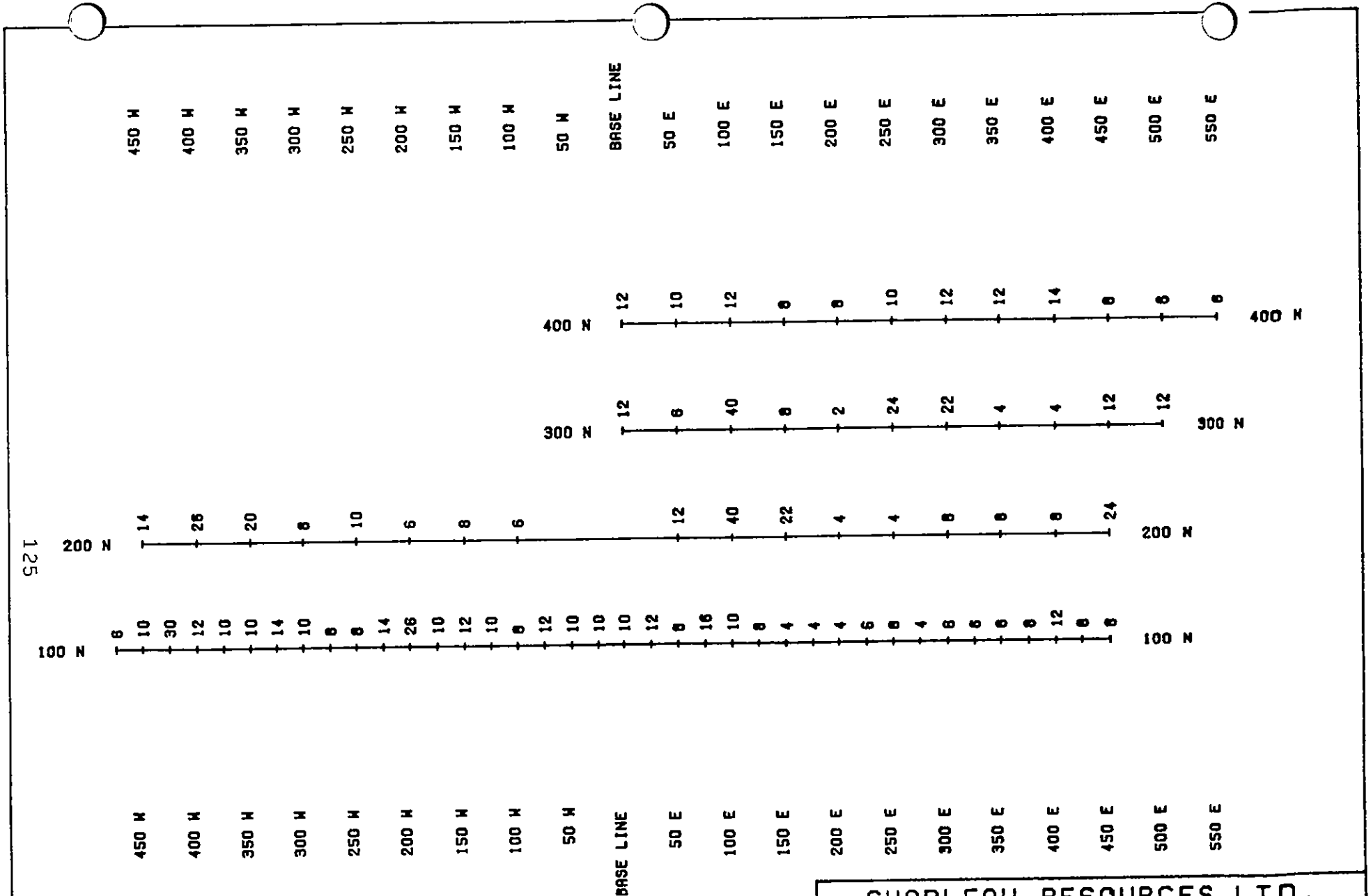

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SOIL GEOCHEM SURVEY

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SOIL GEOCHEM SURVEY

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H-BAR GOSSAN HIL

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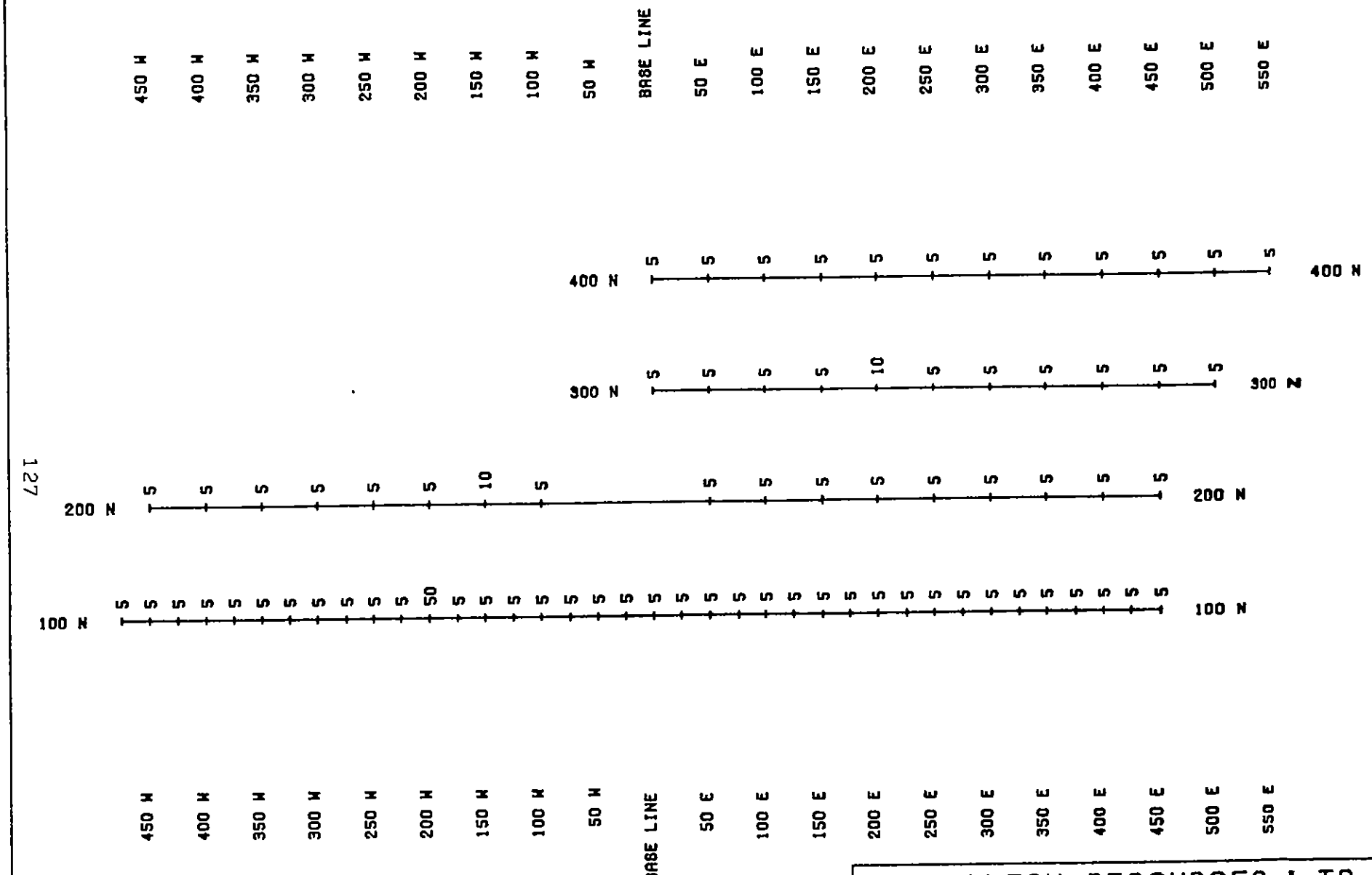

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SOIL GEOCHEM SURVEY

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H-BAR GOSSAN HILL

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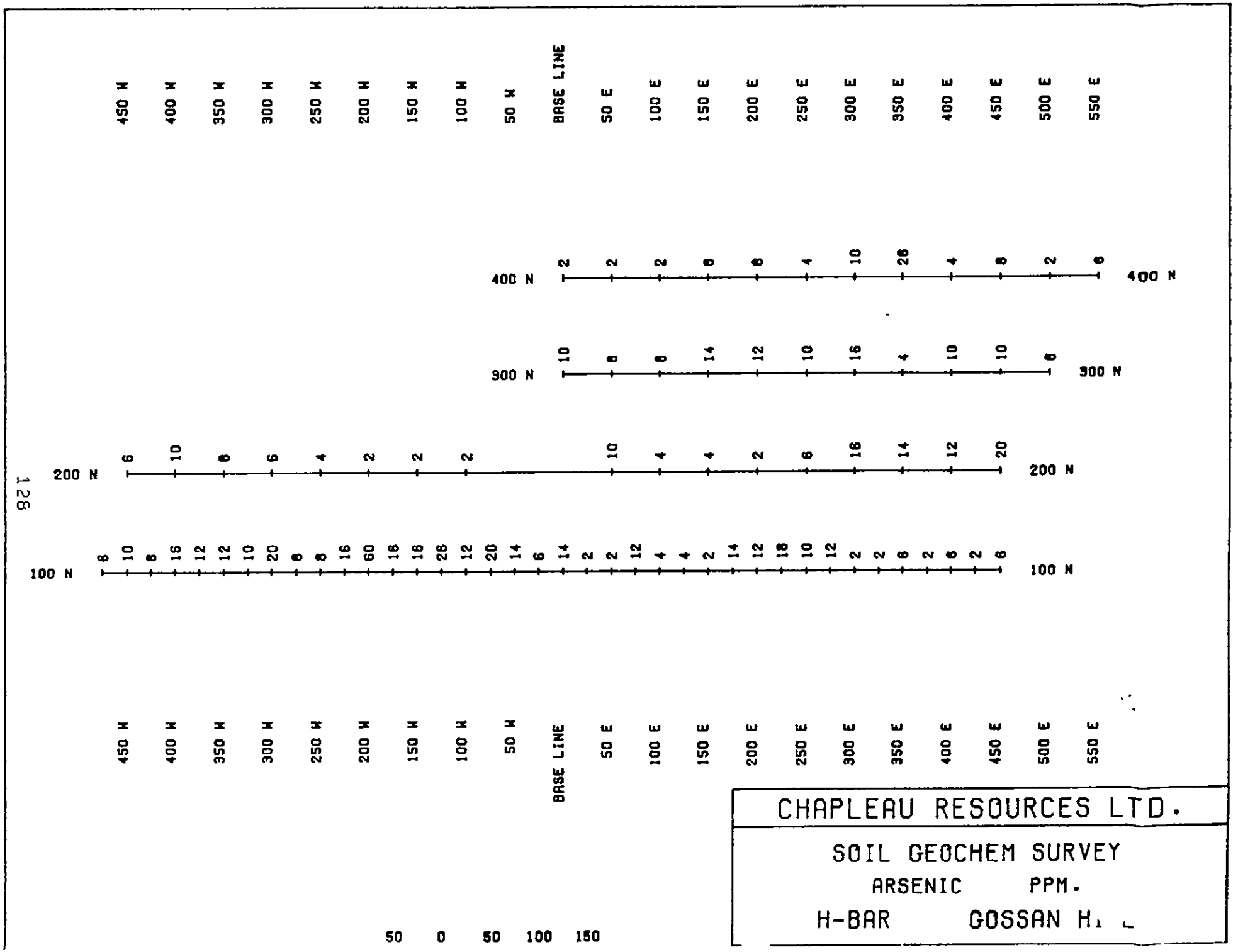
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SOIL GEOCHEM SURVEY

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H-BAR GOSSAN HILL

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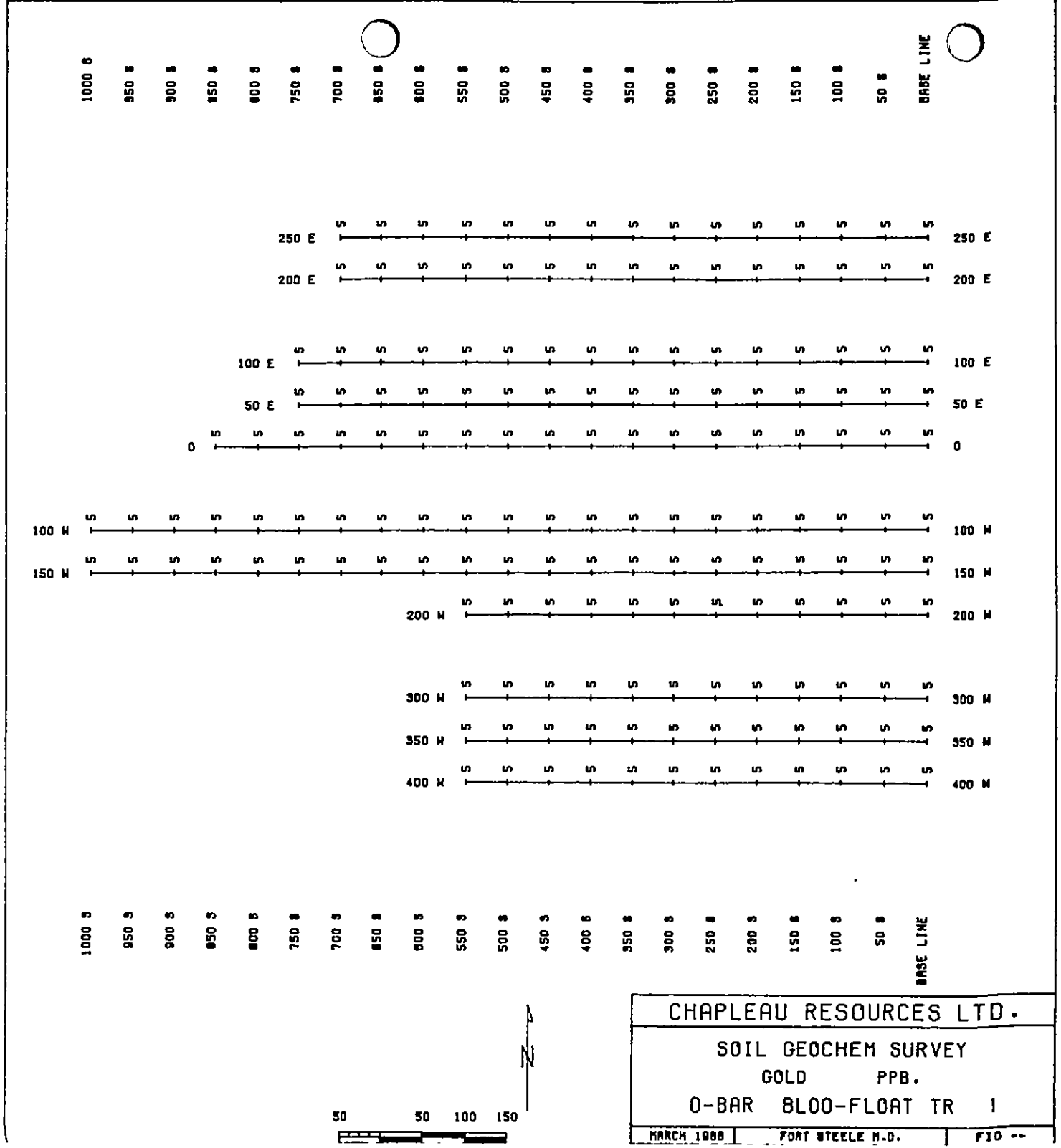
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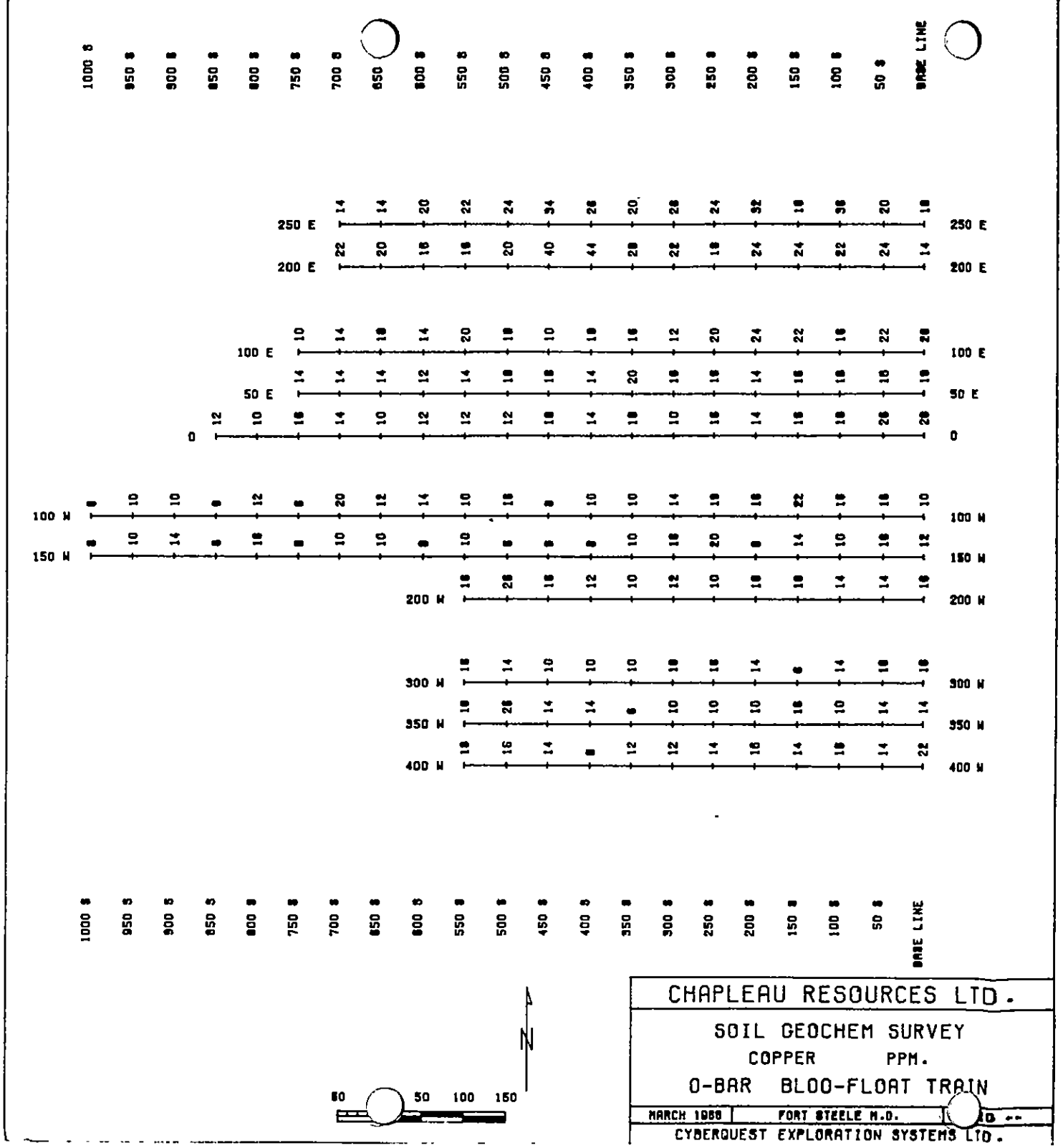
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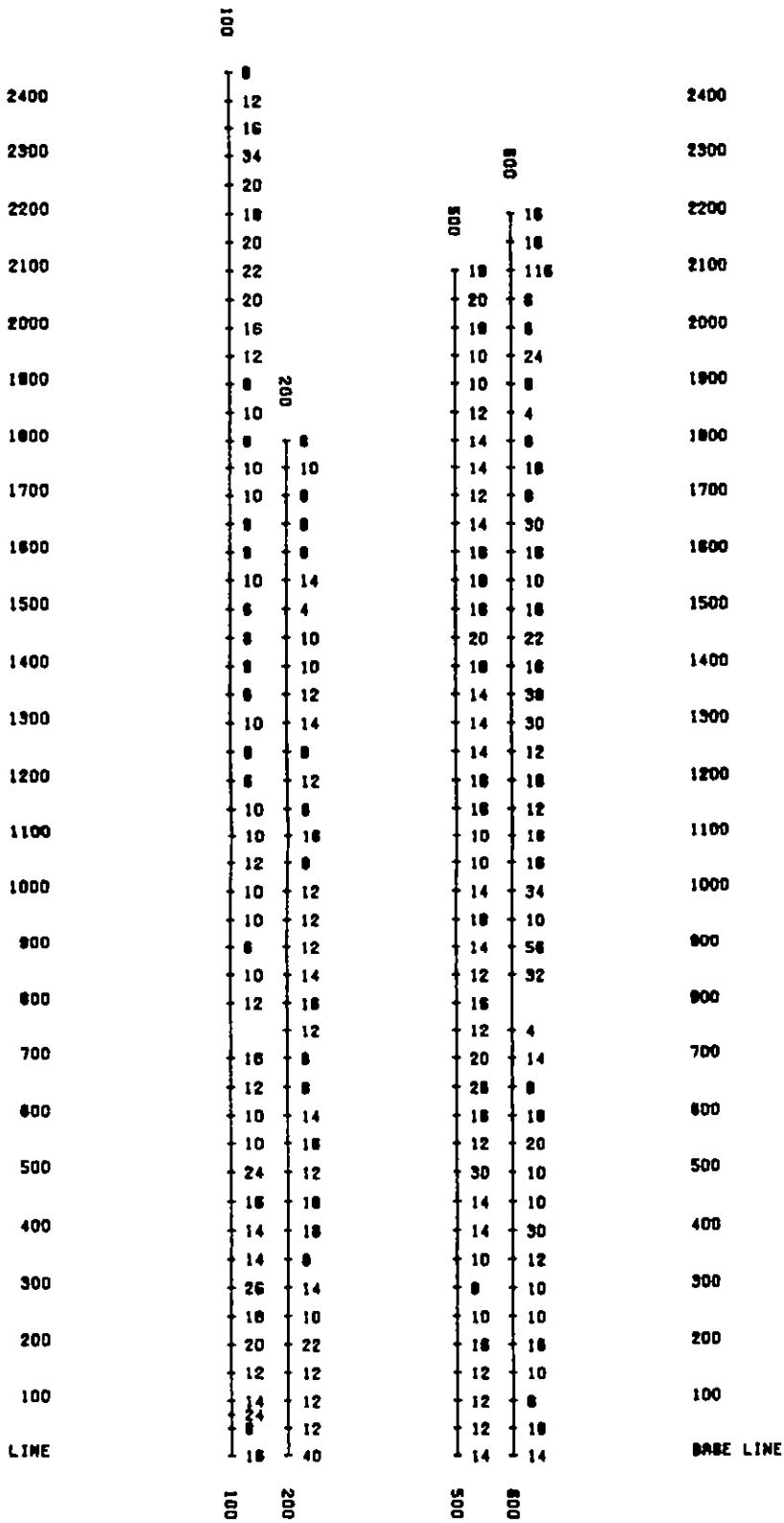

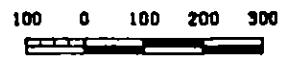

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SOIL GEOCHEM SURVEY

LEAD PPM.

BAR SOIL LINES

MARCH 1989	FORT STEELE M.D.	FIG --

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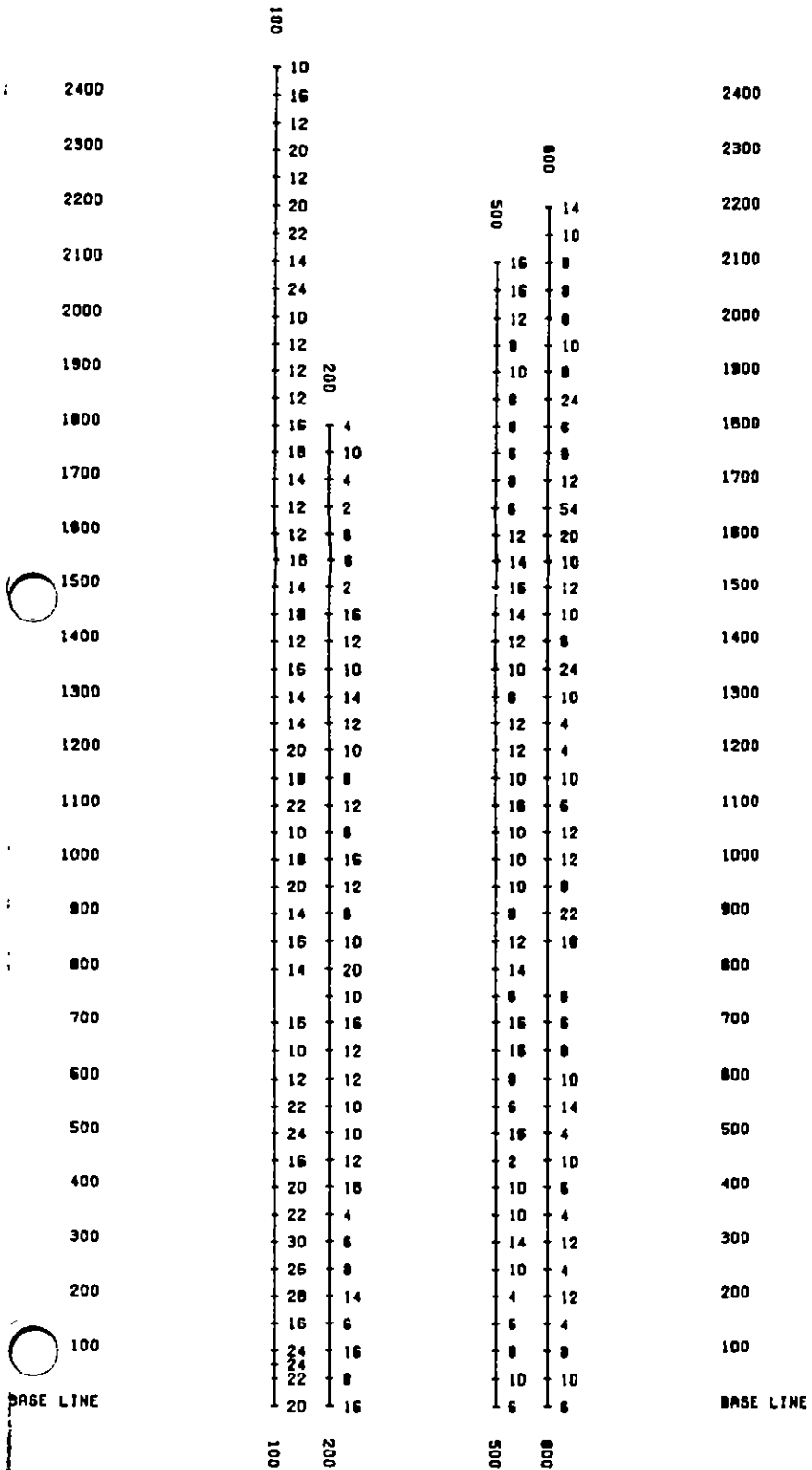

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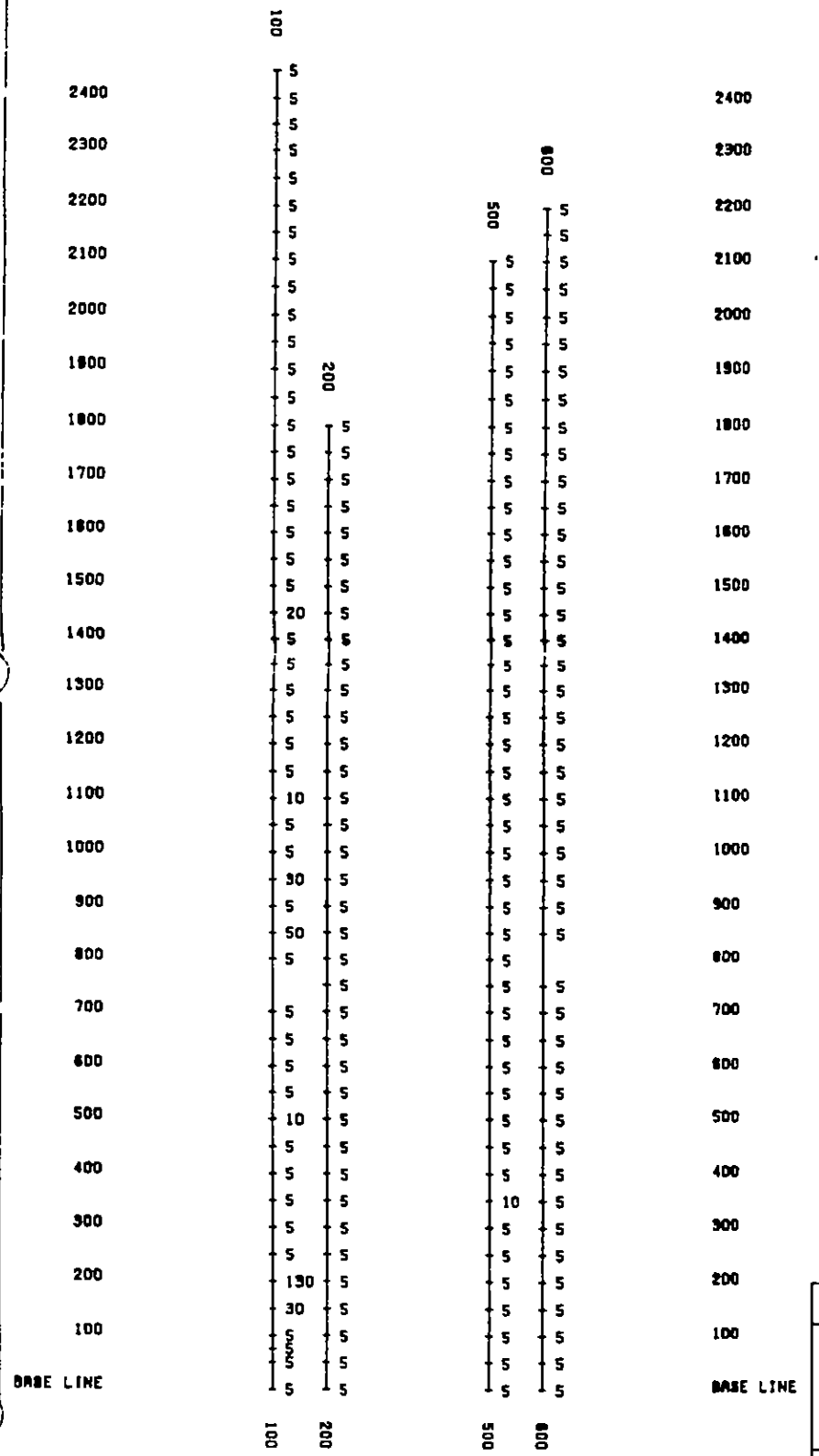

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SOIL GEOCHEM SURVEY

GOLD PPM.

BAR SOIL LINES

MARCH 1988	FORT STEELE M.D.	FIG --

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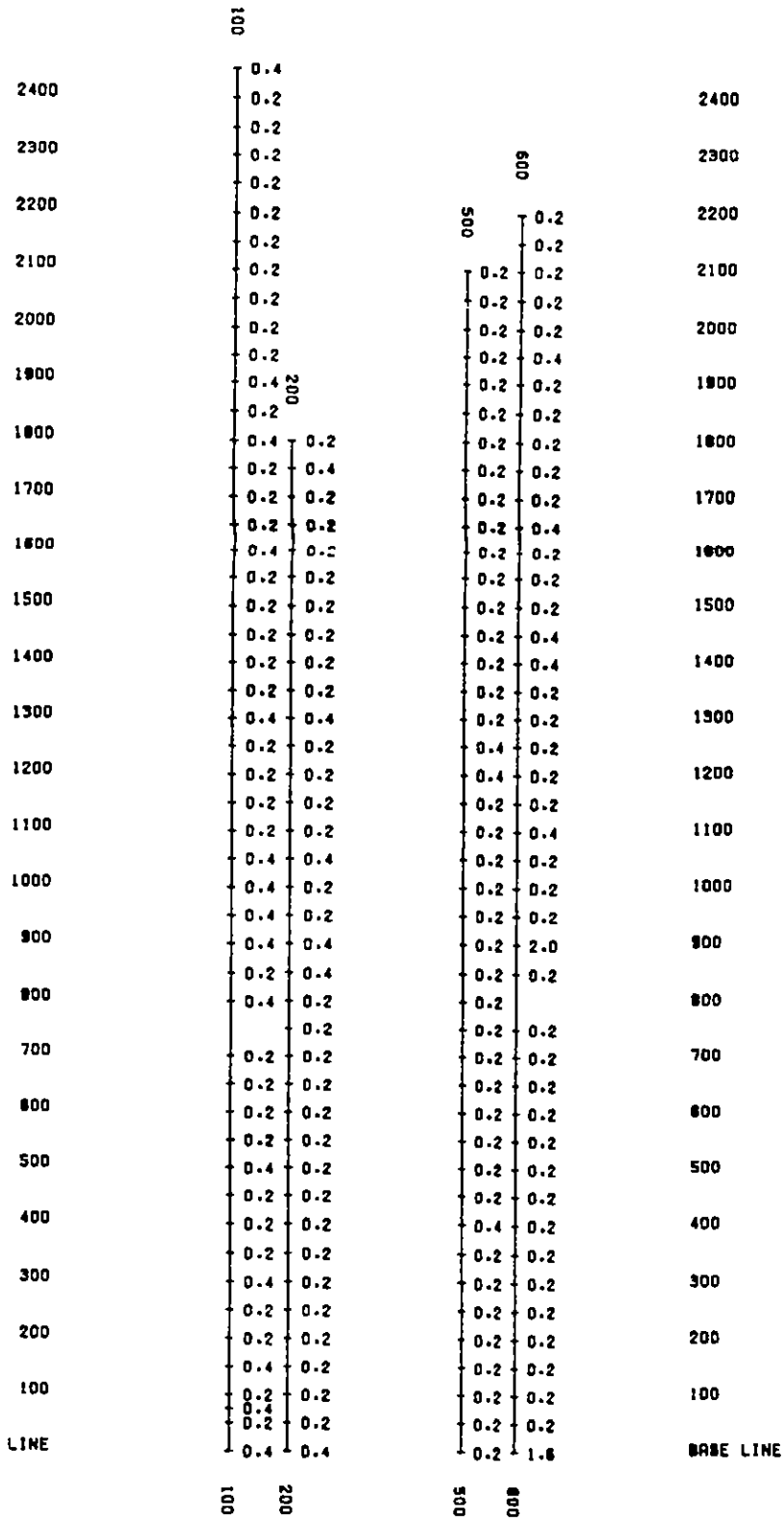


CHAPLEAU RESOURCES LTD.

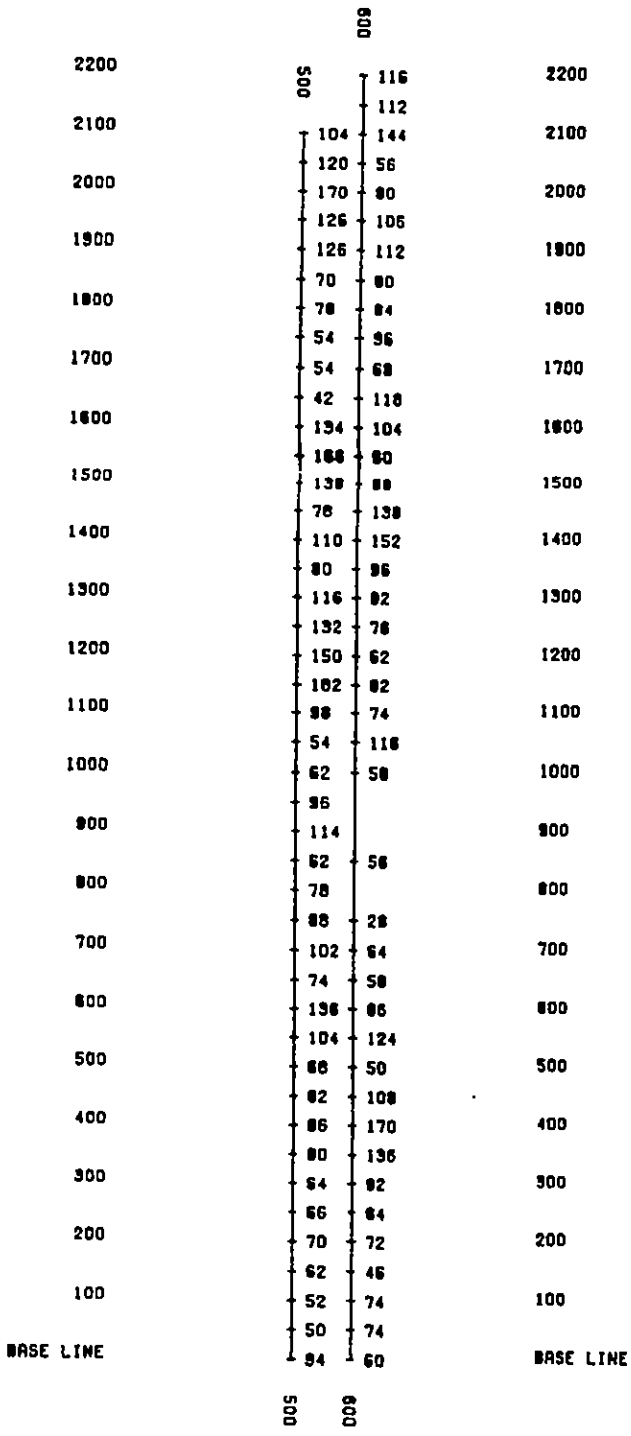
SOIL GEOCHEM SURVEY

SILVER PPM.

BAR SOIL LINES

MARCH 1988	FORT STEELE M.D.	FIG --

CYBERQUEST EXPLORATION SYSTEMS LTD.



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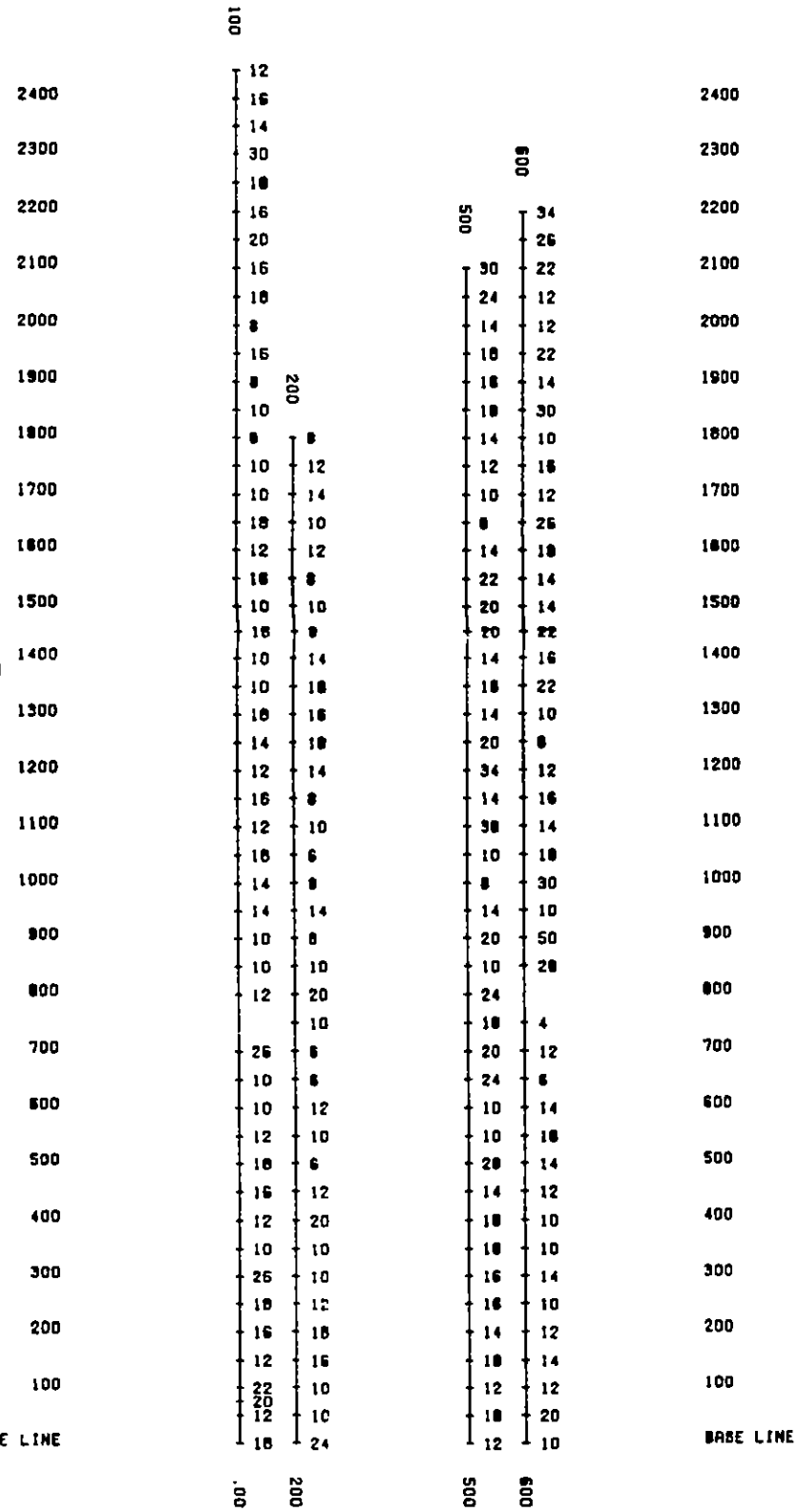
ZINC PPM.

BAR SOIL LINES

MARCH 1988	FORT STEELE M.D.	FIG --

CYBERQUEST EXPLORATION SYSTEMS LTD.



100 0 100 200 300

CHAPLEAU RESOURCES LTD.

SOIL GEOCHEM SURVEY

COPPER PPM.

BAR SOIL LINES

MARCH 1988	FORT STEELE M.D.	FIG --

CYBERQUEST EXPLORATION SYSTEMS LTD.

REPORT ON THE 1987 STREAM SEDIMENT GEOCHEMISTRY OF THE MORGAN, BUCK AND BAR PROPERTIES, CRANBROOK, BRITISH COLUMBIA

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March 18, 1988

1 Introduction

This report addresses the results of the stream sediment silt geochemical survey which was undertaken during the 1987 field season on the Morgan, Buck and Bar Properties, Cranbrook, British Columbia by Chapleau Resources. Exploration targets on the property, which also occur in similar host lithologies and geologic settings nearby, include sediment-hosted massive-sulphide mineralization similar to that at the Sullivan Mine and precious-metal (± base-metal) quartz veins, perhaps similar to those on the east side of Moyie Lake (the St. Eugene Mine). Possibilities also exist for bulk-tonnage low-grade replacement-type Au deposits in calcareous stratigraphy of the Purcell Supergroup. A discussion of the results of this survey is included based largely on a statistical analysis of the geochemical determinations, and based on maps of the geochemical concentrations. Recommendations for further geochemical work on the property are also presented.

Sampling was carried out by Chapleau Resources' employees during August through September 1987 and all geochemical element determinations were made by Rossbacher Laboratory, Ltd. Samples consisted of 0.5 kg of fine grained stream sediment material collected from the active bed of the streams. These were air dried and seived to -80 mesh. A 0.5 gram sub-sample was digested with a 3:1 nitric:perchloric acid attack and analysed using atomic absorption spectrometry. Elements determined include Cu, Ag, Zn, Pb, and As for all samples. Gold was determined by a similar method, except that 10 grams of -80 mesh material was subjected to an aqua regia digestion followed by pre-concentration in MIBK. No standards were included in the analytical batches so data quality could not be determined; however, almost 90 % of the sites were sampled in duplicate, allowing an assessment of sample site reproducibility.

Seven major stream drainages were sampled at an irregular interval averaging approximately 500 m. These drainages include the Wuho, Negro, Noke, London, Waverley, Wuhun Creeks and an unnamed stream (abbreviated 'Wo', 'Ng', 'Nk', 'Ld', 'Wv', 'Wu' and 'Ck', respectively). Maps presenting the sample locations and geochemical concentrations for these samples are presented in Appendix A.

2 Statistical Analysis

2.1 Error Analysis

Evaluation of the sample site reproducibility based on the Thompson-Howarth method using duplicate samples (Thompson and Howarth 1973, 1976a, 1976b, 1978; Thompson 1978) was made. Output from the analysis are presented in Appendix B. Because of the large number of detection level values for Ag and Au, the Thompson-Howarth analysis could not be performed on these elements. Results for Cu, Zn and As indicate that they have relative site reproducibility errors of approximately 5 %, while Pb has a relative site reproducibility error of approximately 10 %. These levels of error in a site replicate context are considered excellent for geochemical determinations.

2.2 Threshold Selection

A histogram and probability plot analysis (Sinclair 1974, 1976; Stanley 1987) of the geochemical concentrations was also made on all of the stream sediment data. Output of the statistical results are presented in Appendix C.

Results indicate that all elements exhibit positively skewed distributions. The positive skewness of these element distributions probably occurs because the samples have a large number of 'background' concentrations and a small number of 'highly anomalous' concentrations which may be derived from economic mineralization.

2.2.1 Copper

The Cu distribution appears to have a bimodal, normal form. One mode, consisting of a large group of samples and exhibiting what are interpreted to be 'background' Cu concentrations, has a mean of 15 ppm and a standard deviation of 10 ppm. A second group of samples of higher abundance can be distingushed from this 'background' group. Concentrations from this group are interpreted to be 'anomalous' and range up to 198 ppm Cu. This second group of 'anomalous' samples may be related to lithologies containing elevated Cu concentrations or to Cu-sulphide-bearing strata. A threshold which discriminates the 'background' and 'anomalous' sample groups occurs at approximately 35 ppm.

2.2.2 Silver

Silver concentrations are positively skewed and have a maximum value of $>$ 100 ppm. The low number of reported concentration values does not allow rigorous statistical evaluation of the Ag data. Concentrations in excess of (an arbitrarily selected) 3$\times$ the detection limit of 0.2 ppm are thus considered anomalous.

2.2.3 Zinc

Zinc concentrations are extremely positively skewed with a maximum concentration of $>$ 10000 ppm. The distribution appears to bimodal log-normal. A 'background' group of samples has a mean of 62 ppm and assymetric ± 1 standard deviation values of 87 and 44 ppm, respectively. An 'anomalous' group of samples can be distinguished from these 'background' samples with a threshold of 90 ppm.

2.2.4 Lead

Lead concentrations also exhibit a positive skew and have a maximum concentration of $>$ 10000 ppm. Lead appears to be bimodal, log-normally distributed with minor negative deviation in lower concentrations (interpreted to be due to truncation of the distribution by the detection limit). The 'background' group of samples has a mean of 11 ppm and assymetric ± 1 standard deviation values of 24 and 5 ppm, respectively. The 'background'

sample group can be distinguished from the 'anomalous' group of samples with a threshold of 52 ppm.

2.2.5 Gold

Gold exhibits a positively skewed distribution consisting of samples with 'background' concentrations of 5 ppb and samples with 'anomalous' concentrations above 5 ppb. While probably distributed poisson, this distribution can be approximated by a mixture of two log-normal distributions. Since gold probably exists largely in its native form in these stream sediments, the 'background' sample group can be considered to be those samples where the analyzed sub-sample contained no gold nuggets (resulting in a reported concentration of 5 ppb). The 'anomalous' group of samples can be considered to consist of those samples where the analyzed sub-sample contained at least one grain of gold (yielding concentrations greater than 5 ppb).

Unfortunately, while any of the 0.5 kg samples may contain numerous gold nuggets, the 10 gram sub-sample split from it **may not contain any**. Furthermore, hydraulic effects from the stream water flow regime may have acted to concentrate or deplete sample sites in the creeks, adding further inaccuracy to the sampling. As a result, given the relatively small amount of sample which was collected and even smaller amount that was actually analyzed, samples from sites which actually contain gold may report 5 ppb concentrations. Little confidence may be placed on samples reporting concentrations of 5 ppb as representing stream locations not containing Au. Nonetheless, a threshold of 10 ppb distinguishes the 'background' from 'anomalous' samples.

2.2.6 Arsenic

Arsenic exhibits a trimodal normal distribution and relatively high overall concentrations (cf. Stanley 1984). The lowest mode has a mean of 5 ppm with a standard deviation of 4 ppm. The middle mode has a mean of 17 ppm, a 4 ppm standard deviation, and can be distinguished from the lower mode with a threshold of 11 ppm. The highest mode, with a 31 ppm mean and 7 ppm standard deviation is probably 'anomalous' and may be related to sulphide-bearing strata. A threshold of 21 ppm separates this 'anomalous' group from the two, probably, 'background' sample groups.

3 Interpretation

Interpretive symbolic maps of the stream sediment data are presented in Appendix D. Samples with average replicate concentrations exceeding the threshold are indicated by large circles while those average concentrations less than the threshold are indicated with small circles. These plots suggest that the primary area of interest lies in the Wuho Creek drainage and specifically on the north side of the main stream. On this stream, four distinct stream sediment anomalies exist in several elements.

The most western anomaly is defined by sample site Wo-6, where highly anomalous concentrations of Cu, Pb, Zn, Ag, Au and As are observed. For Pb, Zn and Ag, the concentrations exceed the maximum determinable concentrations using geochemical methods of 10000, 10000 and 100 ppm, respectively. These extremely high concentrations and the accompanying high replicate disparity suggests that detrital sulphides are present in the stream sediment samples and that these comprise a major portion of the element concentration. Furthermore, these observations may suggest that the source of the anomaly may be located only a small distance north of the sample site.

Sample Wo-3 probably represents downstream dispersion from the Wo-6 anomaly, and the proximity of 'anomalous' sample Wo-7 to Wo-6 suggests that the source of this anomaly may be on the west side of the stream sampled by Wo-6. Anomalous Zn concentrations at sites Wo-2, Wo-4 and Wo-7 may represent more extensive hydromorphic dispersion due to the generally higher mobility of Zn in the secondary environment. Alternatively, these samples may be anomalous due to organic concentration of Zn in a boggy reach of the drainage.

Downstream (to the east) of this site is another anomaly defined by sample Wo-8. It is clearly not part of the dispersion train from the Wo-6 anomaly and related to another source of high element concentration because of the presence of non-anomalous sample Wo-1 immediately upstream of it. It also has anomalous concentrations in Cu, Pb, Zn, Ag, Au and As, suggesting a source for this anomaly somewhere between Wo-8 and Wo-1.

Sample Wo-20 defines an anomaly of a possibly different type. It has anomalous concentrations in all of the elements anomalous in samples Wo-3 and Wo-8, except for Au. The source of this anomaly is probably north of the sample site, and dispersion from this anomaly is probably represented in samples Wo-21 and Wo-22.

The last anomaly observed considered of primary importance is defined by anomalous concentrations of Cu, Pb, Zn, Ag and As in sample Wo-23. It, thus, has a geochemical signature similar to the anomaly defined by sample Wo-20. Dispersion downstream from this anomaly is probably represented by sample Wo-24, and its source is probably to the north of the sample site.

Several other anomalies also exist on the property. These consist mainly of single point anomalies in several different elements and all are defined by element concentrations which are not significantly in excess of the threshold value, given the observed relative error. One exception exists.

Near the head of Noke Creek, a coherent set of anomalous Zn concentrations occur (samples Nk-12, Nk-13, Nk-14 and Nk-16). While these may represent organic concentration of Zn in a boogy reach of the drainage, the stream immediately west of this site (containing 3 lakes) has a multi-point Cu anomaly. In addition, anomalous Ag and As occur at site Nk-16. The similarity of this anomaly to the one defined by sample Wo-6 augurs its importance.

4 Conclusions and Recommendations

Based on the results of the 1987 stream sediment survey, several conclusions may be drawn :

- the size of the stream sediment samples and analytical method is inadequate to detect, with confidence, the presence of Au in the streams;
- four distinct geochemical anomalies occur on Wuho Creek which may potentially be related to massive sulphide mineralization similar to that observed at the Sullivan Mine;
- these anomalies may be of two types: those that contain anomalous Au (the two to the west), and those that don't; alternatively, these anomalies may all be similar and the sampling inadequacies for Au (described above) may have contributed to the non-detection of Au in the two eastern anomalies;
- a fifth anomaly exists near the head of Noke Creek which may be similar to those observed on Wuho Creek;
- given the sample density on the streams and the length of the dispersion trains observed below the anomalies on Wuho Creek, only one or two samples actually record anomalous concentrations; as a result, anomalies may exist between sample sites which are spaced more than 500 m apart, **and thus may go undetected.**

Based on the above conclusions, the following actions are recommended :

- an orientation survey of the stream sediment collection method, using one of the observed anomalies on Wuho Creek as a test case; from this an optimal sampling design and set of analytical procedures can be determined which will give confident detection of anomalies related to both massive-sulphide and Au-quartz vein mineralization;
- a detailed stream sediment survey of all streams on the property (based on the above described orientation survey) at one sample every 250 m along the stream and above all forks; this should include a multi-element (+ Hg) ICP analysis of the silt fraction **plus** a non-magnetic and magnetic heavy liquid separation of up to 5 kg of fine grained stream sediment; analysis of Au should be by fire assay pre-concentration and atomic absorption; a barite specific determination should be included; this survey should take place immediately after spring run-off to avoid hydraulic re-distribution of heavy minerals;

- anomalous zones discovered by the 1987 stream sediment survey should be confirmed with a follow-up detailed stream sediment survey according to the design defined by the stream sediment orientation survey;
- before the commencement of any subsequent soil survey, an assessment of the glacial overburden and its effect on the detection of geochemical anomalies **must** be undertaken; this should include a study of the soil/overburden stratigraphy and provenence and a search for the optimal sample design in a soil orientation survey;
- all confirmed stream sediment anomalies should be intensively prospected and covered with an extensive soil grid with nodes at 25 m centers; analysis of the -80 mesh fraction should include an ICP multi-element (+ Hg) determination plus Au by fire assay pre-concentration and atomic absorption finish; a barite specific analysis should also be included if found to be of value in the stream sediment and soil orientation surveys.

5 References

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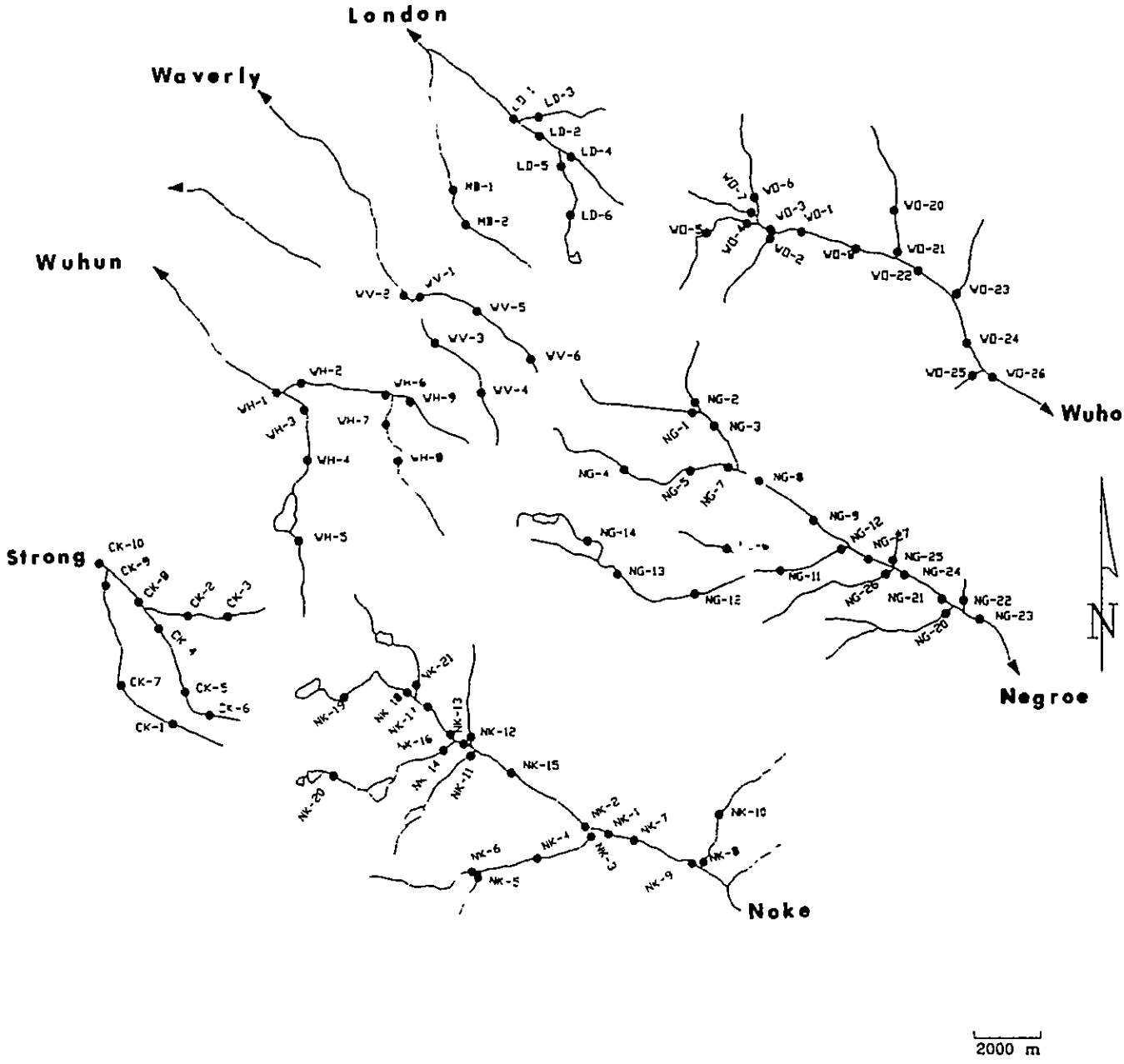
Thompson, M. and Howarth, R.J. (1978): *A New Approach to the Estimation of Analytical Precision.* Journal of Geochemical Exploration, Vol. 9, pp. 23-30.

Sample Locations/Numbers



Morgan/Buck/Bar Property

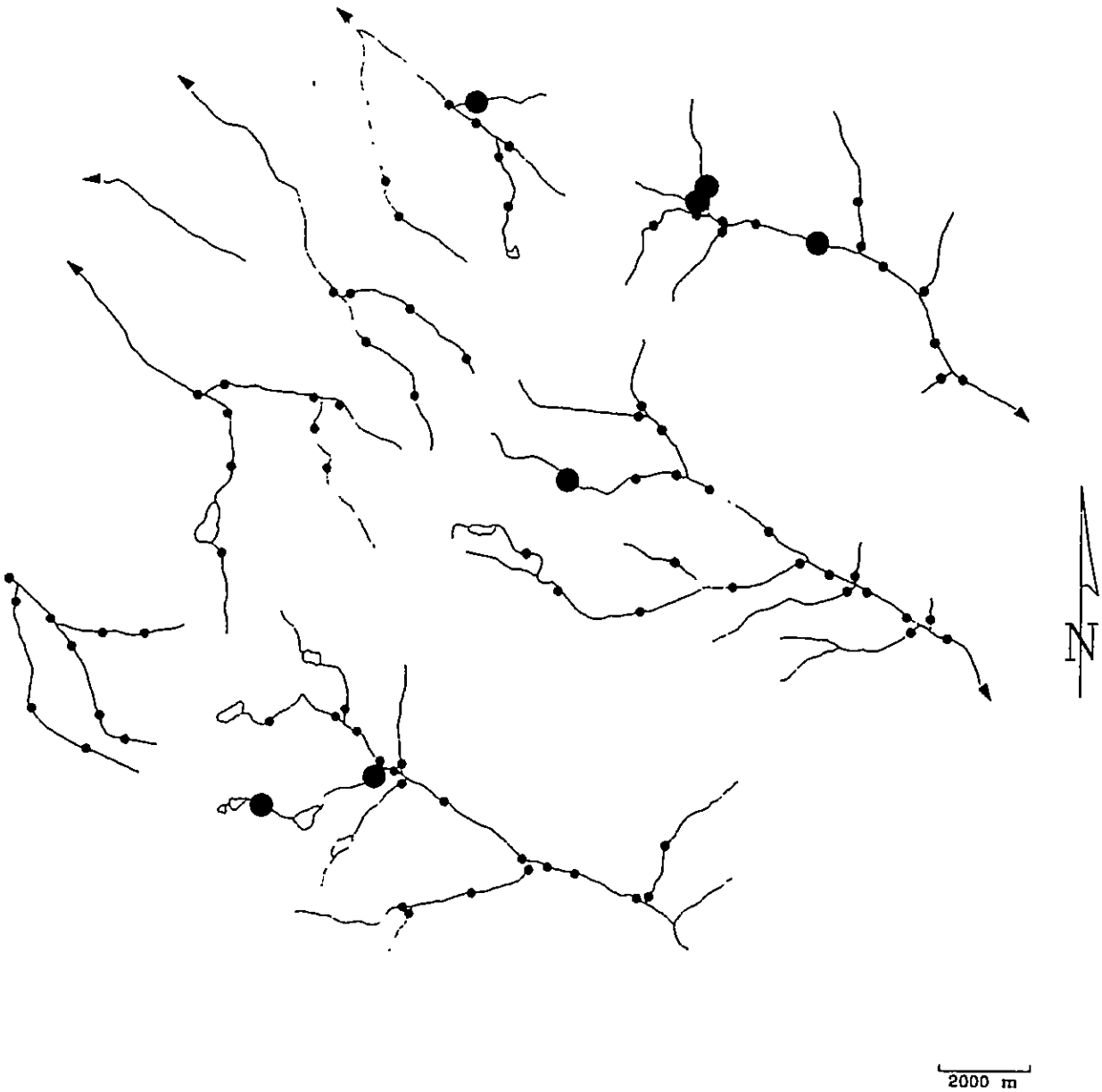
Chapleau Resources Ltd.

1987 Stream Sediment Geochemistry

March 18, 1988

Copper Stream Sediment Interpretation

Threshold. 35 ppm



- Background
- Anomalous

Morgan/Buck/Bar Property

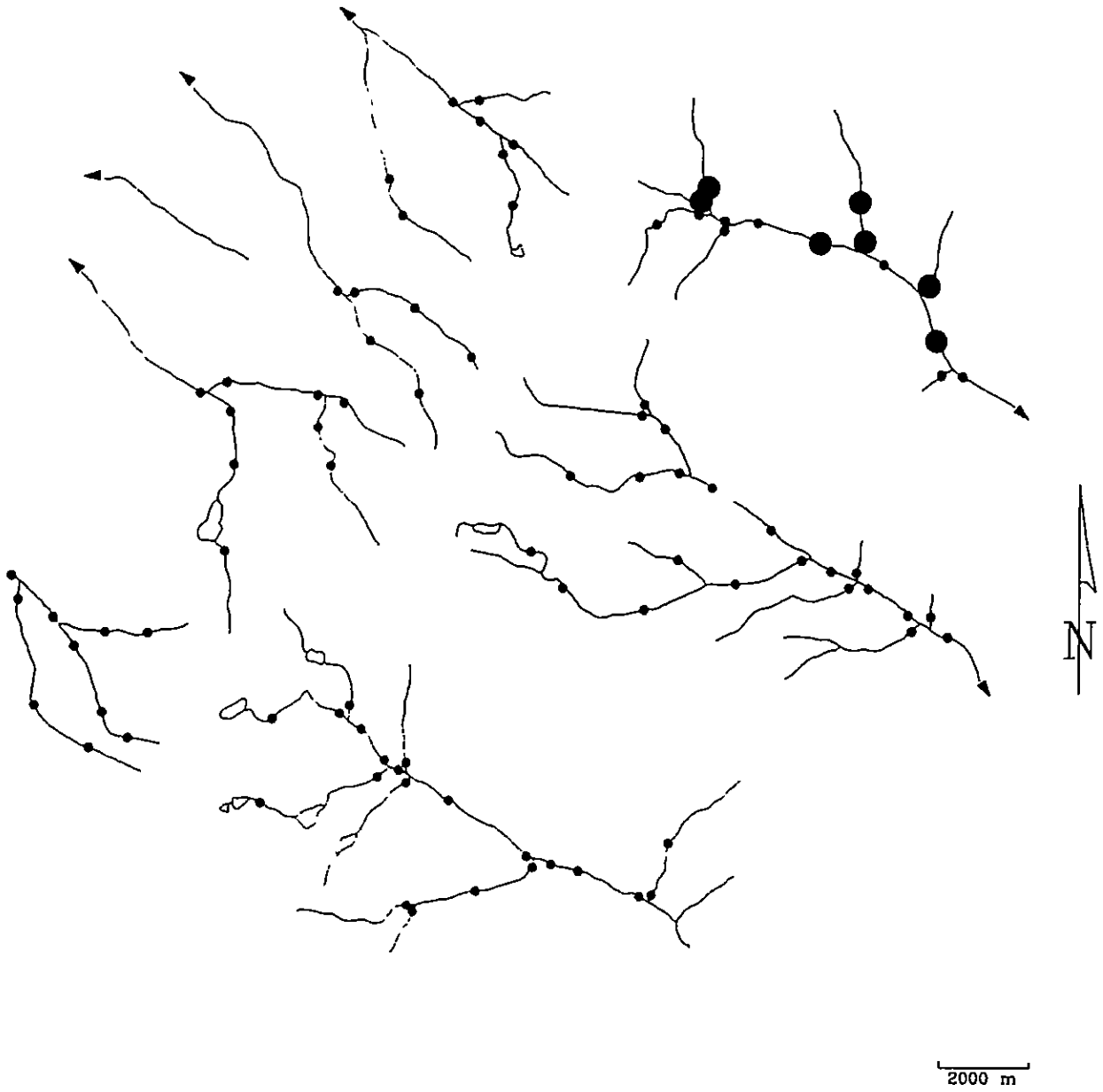
Chapleau Resources Ltd.

1987 Stream Sediment Geochemistry

March 18, 1988

Lead Stream Sediment Interpretation

Threshold: 52 ppm



- Background
- Anomalous

Morgan/Buck/Bar Property

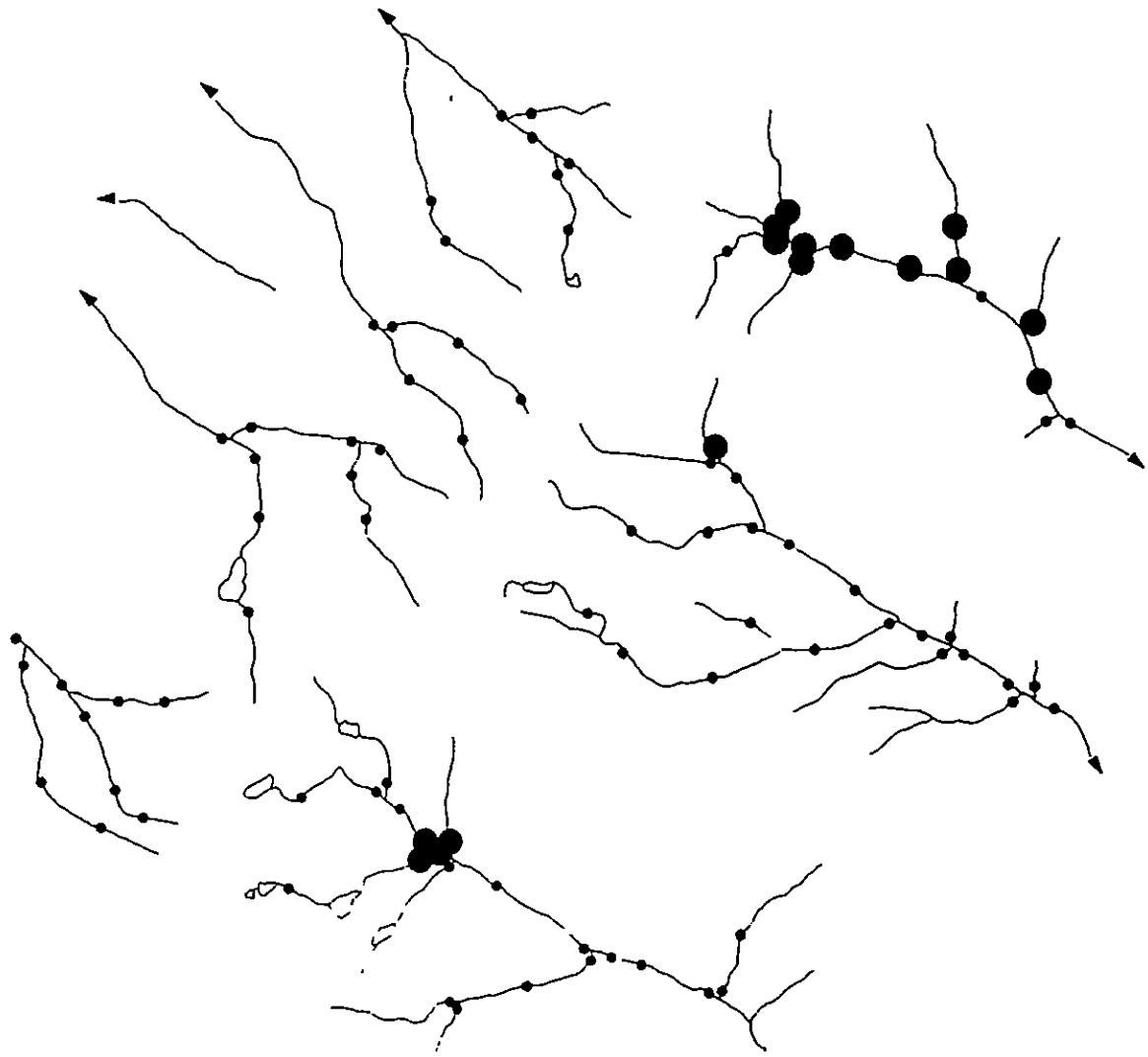
Chapleau Resources Ltd.

1987 Stream Sediment Geochemistry

March 18, 1988

Zinc Stream Sediment Interpretation

Threshold. 90 ppm



- Background
- Anomalous

Morgan/Buck/Bar Property

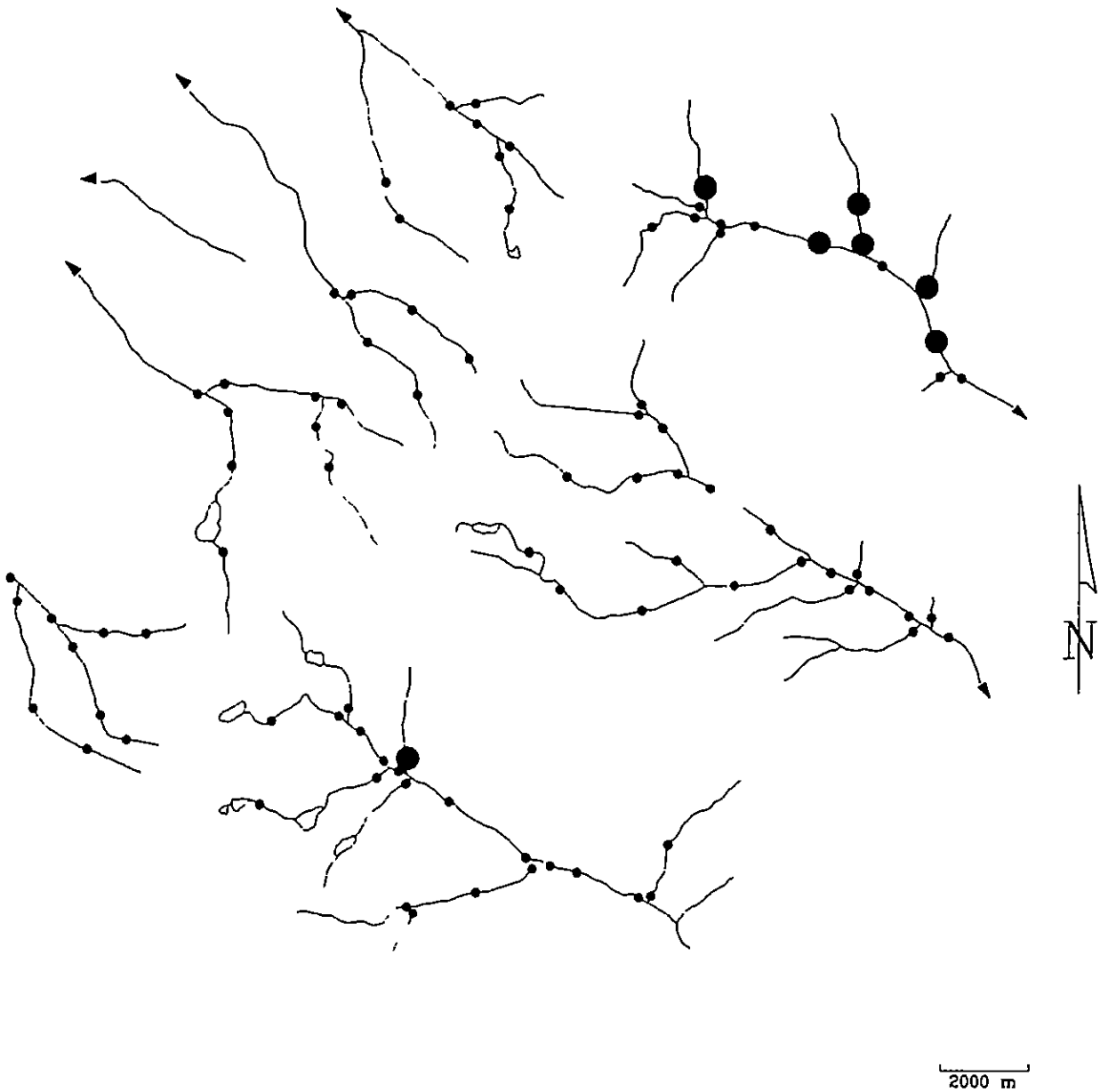
Chapleau Resources Ltd.

1987 Stream Sediment Geochemistry

March 18, 1988

Silver Steam Sediment Interpretation

Threshold: 0 6 ppm



- Background
- Anomalous

Morgan/Buck/Bar Property

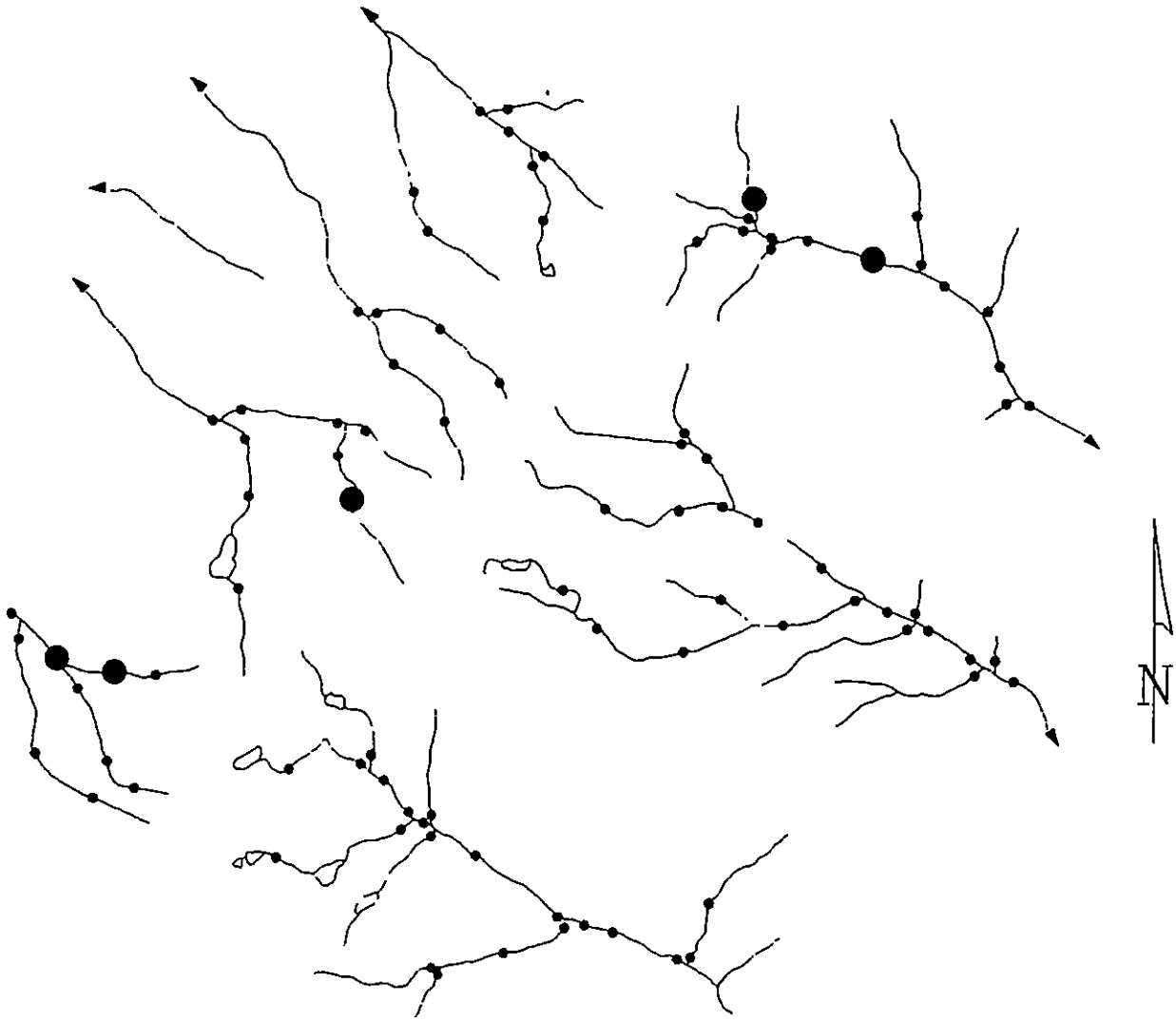
Chapleau Resources Ltd.

1987 Stream Sediment Geochemistry

March 18, 1988

Gold Stream Sediment Interpretation

Threshold 10 ppb



- Background
- Anomalous

Morgan/Buck/Bar Property

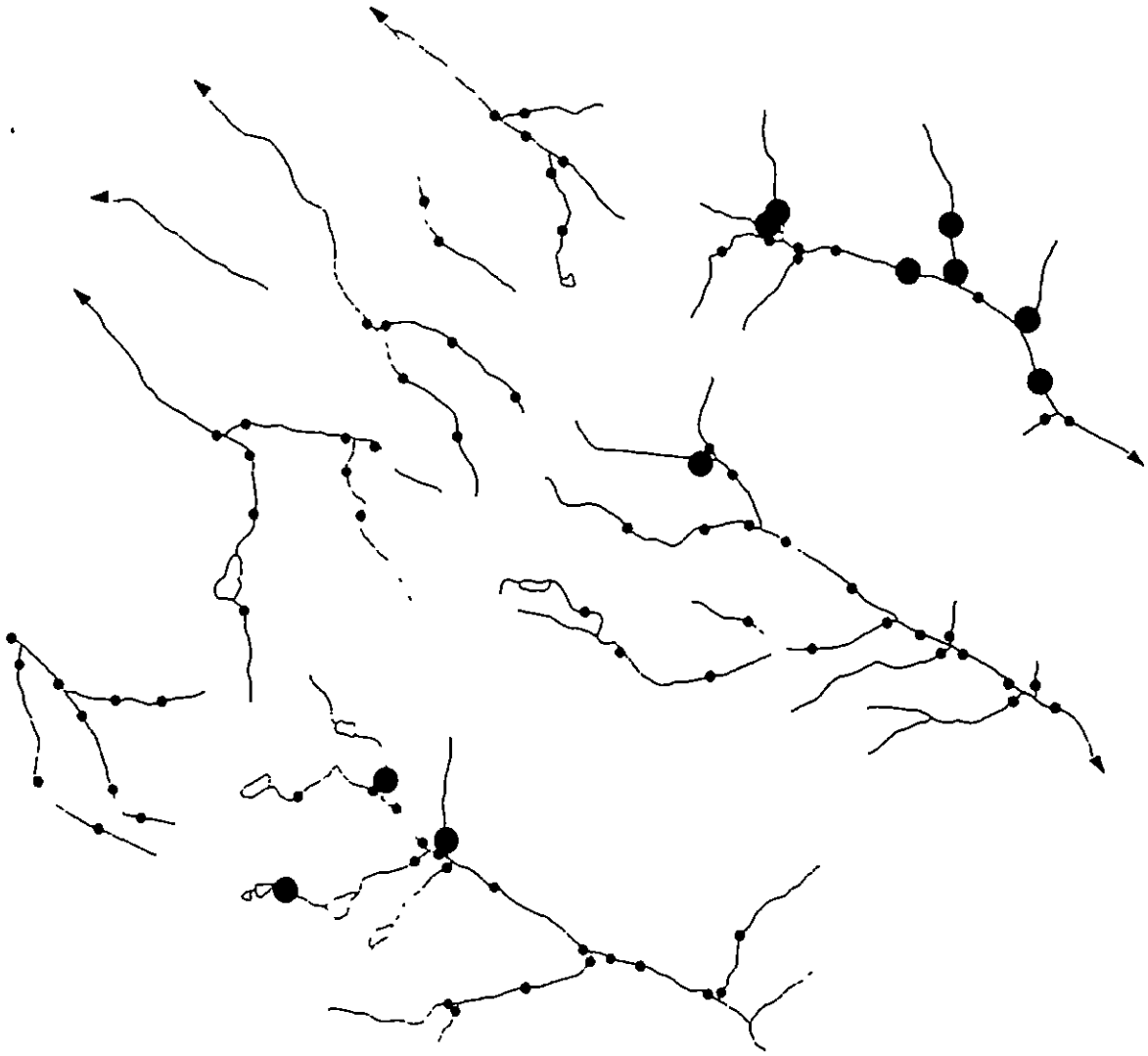
Chapleau Resources Ltd.

1987 Stream Sediment Geochemistry

March 18, 1988

Arsenic Stream Sediment Interpretation

Threshold 21 ppm



- Background
- Anomalous

Morgan/Buck/Bar Property

Chapleau Resources Ltd.

1987 Stream Sediment Geochemistry

March 18, 1988

1.7 COST STATEMENT - EXPLORATION 1987

Chapleau Resources Ltd.
Geological & Geochemical Surveys
PURCELL CAMP
May 23 - Nov. 22, 1987

1.7.1 Morgan Property

North Block	
Geochemical Costs:	
Wages - 2 persons, 6 1/2 man days @ $120./day	$ 800
Supplies & Vehicle	440
Assay Costs	1,147
Geological Costs:	
Field Survey - Consultant Fee	2,279
- Report	250
Engineering Costs:	
Report Preparation (Assessment)	640
Total Cost - Morgan North	$ 5,556
South Block	
Geochemical Costs:	
Wages - 4 persons, 104 man days @ $120./day	$12,545
Supplies & Vehicle	1,885
Assay Costs	10,955
Assay Analyses - Report Preparation (Apportioned)	1,000
Geological Costs:	
Field Survey - Consultant Fee	2,765
Supervision - Consultant Fee (6 days @ $250)	1,500
- Benefits	419
Engineering Costs:	
Field Supervision - 20 Days @ $250	5,000
Report Preparation (Assessment)	1,633
Drafting	781
Physical - Trenchwork Hoe (88 Hrs. @ $99/hr.)	8,712
- Expense Benefits	1,661
Total Cost - Morgan South	$ 48,857
TOTAL COST - MORGAN GROUP	$ 54,413

1.7.2 Buck I Property

Geochemical Costs:	
Wages - 2 persons, 10 man days @ $120/day	$ 1,200
Assay Costs	1,606
Supplies & Vehicle	240
Engineering Costs:	
Report Preparation	800
Drafting Services	240
Prospect Geology	960
Physical - Trenchwork Hoe 20 Hrs. @ $135/hr.	2,681
- Benefits Expense	397
Total Cost - Buck I	$ 8,124

1.7.3 Buck II Property

Geochemical Costs:	
Wages - 2 persons, 40 man days @ $120/day	4,750
Assay Costs	3,342
Supplies & Vehicle	1,155
Engineering Costs:	
Report Preparation	992
Draft Services	332
Total Cost - Buck II	$ 10,561

1.7.4 Bar Property

Geochemical Costs:	
Wages - 4 persons, 55 man days @ $120/day	$ 6,632
Assay Costs	6,719
Assay Analysis - Report Preparation (Apportioned)	1,200
Supplies & Vehicle	2,410
Engineering Costs:	
Field Supervision - 14 days @ $250	3,500
Report Preparation (Assessment)	1,500
Consultant (A & M Explorations)	680
Drafting	281
Physical:	
Line and Hand Trench - 2 men, 12 man days @ $120/day	1,427
Tenchwork - Hoe - 52 Hrs. @ $135	7,020
Expense Benefits	663
Total Cost - Bar Property	$ 32,032

TOTAL COST - PURCELL CAMP (Field Cost only) $105,131 --

SAMPLE LOCATION

BASE LINES

MORGAN

Line	Assay Name	Area	Sheet Ref. Number	Description
Base Line 1	BL-1	Shorty Creek	2ab,3abg, 10a	Soil 'B'
Base Line 2	BL-2	Limerick Creek	3bcdef,4ab 10ab	Soil "B"
Base Line 3	BL-3	Liverpool Creek	7abc,8abcdef 11ef	Soil "B"
Base Line 4	BL-4	Wuhun Creek	5efg,6a, 11abcde	Soil "B"
Base Line 5	BL-5	London Creek	7c	Soil "B"
Base Line PE	PE	Sawmill Creek	1abc	Soil "B"

Bar

Base Line 1	FC-BL1	Palmer Bar Creek	5ab	Soil "B"
Base Line 2	FC-BL2	Palmer Bar Creek	5b	Soil "B"
Base Line 5	BL5	Palmer Bar Creek	14de,15ab	Soil "B"
Base Line 6	BL6	Palmer Bar Creek	15b,27a,29a	Soil "B"
C-BL	C-BL	Gossan Hill	5cde	Soil "B"
QP	QP	Quartz Pit	14abc	Soil "B"
Base Line 0	BL00	Palmer Bar Creek	22abcde	Soil "B"
Base Line 0A	BL00A	Palmer Bar Creek	14cd	Soil "B"
S1	S 1,2,3,4	Palmer Bar Creek	25a	Soil "B"

BUCK

	BSW 1	Wuho Creek	31a,32a	Soil "B"
	BSW 2	Wuho Creek	28ab,31a	Soil "B"
	BSW 3	Wuho Creek	27a,30ab	Soil "B"
Noke	Noke BL 1	Noke Creek	20ab,32a	Soil "B"

SILT SAMPLES

Sample	Assay Sample Name	Area	Sheet Ref. Number
Strong	CK- 1A,1B,2A,2Bi,2Bii, 2Biii,3A,4A,4B,5A, 5B,6A,6B,7A,7B,8A, 8B,9A,9B,10A,10B	Strong Creek	21a
London	LD- 1A,1B,2A,2B,3A,3B, 4A,4B,5A,5B,6A,6B	London Creek	21a
London (Branch)	MP- 1A,1B,2A,2B	London Creek	21a
Wuhun	WH- 1A,1B,2A,2B,3A,3B, 4A,4B,5A,5B,6A,6B, 7A,7B,8A,8B,9A,9B	Wuhun Creek	21a,b
Waverly	WL- 1A,1B,2A,2B,3A,3B, 4A,4B,5A,5B,6A,6C,	Waverly Creek	21b
Wuho	WO- 1A,1B,2A,2B,3A,3B, 4A,4B,5A,5B,6A,6B, 7A,7B,8A,8B,20A,20B, 21A,21B,22A,22B, 23A,23B,24A,24B, 25A,25B,26A,26B	Wuho Creek	13a
Noke	NKD- 1, 2 to 9, 10A,10B, 10C, 11A,11B to 21A,21B	Noke Creek	13ab
Negro	NG- 1A,1B, to 14A,14B 20A,20B to 27A,27B	Negro Creek	13b,c

BULK SAMPLES

Assay Sheet Name	Area	Sheet Ref. Number
Lim 1	Limerick Creek	1c
Lim 2	Limerick Creek	1c
Lim 3	Limerick Creek	1c
Lim 4	Strong Creek	1c
Lim 5	Strong Creek	1c
Lim 6	Manchester Creek	1c
Lim 7	Perry Creek/Walsh Creek	1c
Lim 8	Wuhun Creek	1c
Lim 8	Wuhun Creek/ Perry Creek	1c
Lim 10	Perry Creek/ Waverly Creek	1c
Lim 11	Perry Creek/ Tributary	1c
Lim 12	London Creek	1c
Lim 13	Waverly Creek	1c
Lim 14	London Creek	1c
Lim 15	Liverpool Creek	1c
Lim 16	Perry Creek/ London Creek	1c

MORGAN TRENCHES

TRENCH	ASSAY SAMPLE NAME	AREA	SHEET REFERENCE NUMBER
1 to 7	Numbers 1 to 17	Shorty Creek	12
8	Numbers 18 to 42	Columbia Adit	12a,b
9 to 12	Numbers 43 to 46	Liverpool Creek	12b
15	Numbers 47 to 48	Liverpool Creek	12b
16 to 18	Numbers 56 to 68	Homestake Shaft	19a
19	Numbers 70	Wuhun Fault (Spring)	19a
20	Numbers 71	Wuhun Fault (Spring)	19a
21 to 24	Numbers 72 to 90	Wuhun Creek	19a

BAR TRENCHES

1and 2	11-4el -1 to 11 (UB87-01)	Palmer Bar Cr. (ELCR)	16,17,18,23,24, 36,39
5	11-5 QP	Quartz Pit	36b
6	11-5 HP	Horseshoe Pit	36b
7 and 8	11-5008	Horseshoe Pit	36b
16 to 18	711-10-6	Palmer Bar Cr. (ELCR)	40,37
20 to 23	711-11-1	Palmer Bar Cr.	40,37

BUCK TRENCHES

1	BK Vein A,B 711-16	Noke Creek	37,40,37b

ROCK SAMPLE

Assay Name	Area	Sheet Reference	Note.
N8701 to 05	Negro Creek	3h	----------
Neg B01 & B02	Negro Creek	5g	----------
WB8701	Shorty Creek (W. Bog)	5g	Float
SLDM 5	Shorty Creek	5g	Quartz Vein
W18-01	Wuhun Creek	5g	Skarn Diorite
NWB 87 02	Shorty Creek (W. Bog)	5h	Float
Neg 87 10	Negro Creek	6a	Breccia
Neg 87 20	Negro Creek	6a	Breccia
LDM 9 SH	Wuhun Creek	6a	Quartz
LDM 9 SH DP	Wuhun Creek	6a	Quartz
LDM 9 +200	Wuhun Creek	6a	Quartz
L87100, 101	Liverpool Creek	7c	Quartz Vein
1350 75W BL-2	Liverpool Creek	7c	Float Quartz with Pyrite
F-L-25R	Shorty Creek	7c	Breccia
LB8701,02	Palmer Bar Creek Gossan Hill	17b	Quartz Float
B-01	Palmer Bar Creek	23a	Quartz Stringer
W-01	Wuhun Creek	23a	Diorite Float
Noke Adit	Noke Creek (Adit)	27a	----------
BL 6-10-11	Palmer Bar Creek	27a	----------
Neg100 to 104	Negro Creek	27a	Quartz Vein
W01 to W04	Wuhun Creek	27a	Float
L87-1	Wuhun Creek	35a	Diorite
L87-2	London Creek	35a	Diorite Float
L87-3	London Creek	35a	Diorite Float
L87-4	Shorty Creek	35a	Float Diorite
L87-5	Manchester Creek	35a	Diorite
L87-7	Walsh Creek	35a	Diorite Float
L87-8	Noke Creek	35a	Diorite Float
L87-9	Palmer Bar Creek	35a	Diorite Float
QP	Quartz Pit	44b	----------
G84	Gossan Hill	44b	----------

ROCK SAMPLES (Grab)

Morgan North Block

Sample Number	Area	Description	Reference Sheet
14501	Lisbon Creek	----------	3h
14502	Lisbon Creek	----------	3h
14503	Lisbon Creek	----------	3h
14504	Lisbon Creek	----------	3h
14505	Lisbon Creek	----------	3h
14506	Lisbon Creek	----------	3h
14507	Lisbon Creek	----------	3h
14508	Lisbon Creek	----------	3h
14509	Lisbon Creek	----------	3h
14510	Lisbon Creek	Quartz & Argillite	3h
14511	Lisbon Creek	Quartz & Argillite	3h
14512	Lisbon Creek	Quartz	3h
14513	Lisbon Creek	Argillite (altered)	3h
14514	Lisbon Creek	Argillite (altered) Silicified	3h
14515	Lisbon Creek	Quartz	3h
37809	Sawmill Creek	Blue Quartz	9a
37811	Sawmill Creek	Vein Fault	9a
37812	Sawmill Creek	Specular Hematite	9a
37824	Sawmill Creek	Bull Quartz	9a

Morgan South Block

14504	Liverpool Creek	Quartz Vein	3h
14516	London Creek	Bull Quartz	3h
14518	London Creek	Bull Quartz	3h
14519	Wuhun Creek	Quartz (dump)	4a
14520	Wuhun Creek	Limonitic Argillite & Quartz	4a
14521	Wuhun Creek	Argillite & Quartz	4a
14522	Waverly Creek	Quartz with Pyrite	4a
14523	Limerick Creek	Quartz	4a
14524	Limerick Creek	Quartz	4a
14525	Strong Creek	Gouge Material	4a

14526	Perry Creek	Argillite (green)	4a
37808	Liverpool Creek	----------	9a
37810	Liverpool Creek	----------	9a
37813	France Creek	----------	4a
37814	France Creek	----------	4a
37815	France Creek	----------	4a
37816	Wuhun Creek	with Hematite	4a
37817	Wuhun Creek	----------	4a
37818	Wuhun Creek	----------	4a
37819	Liverpool Creek	----------	5a
37820	Liverpool Creek	Diorite & Quartz	5a
37821	Liverpool Creek	Siltstone	5a
37822	Liverpool Creek	Bull Quartz	5g
37823	Liverpool Creek	Quartz with Pyrite	5g

(1) a

ROSSBACHER LABORATORY LTD.

2225 S. SPRINGER AVENUE
BURNABY, B.C. V5B 3N1
TEL : (604) 299 - 6910

CERTIFICATE OF ANALYSIS

TO : CHAPLEAU RESOURCES LTD.
2100 N. 4TH ST.
CRANBROOK, B.C.

PROJECT:
TYPE OF ANALYSIS: GEOCHEMICAL

CERTIFICATE#: 87327
INVOICE#: 7774
DATE ENTERED: 87-07-16
FILE NAME: CHA87327
PAGE # : 1

PRE FIX	SAMPLE NAME	PPM Cu	PPM Ag	PPM Pb	PPB Au	PPM As
S	PE 000+075E	40	0.2	22	5	18
S	+050E	28	0.2	34	5	12
S	+025E	12	0.2	14	5	10
S	+000	10	0.2	14	5	10
S	+025W	8	0.2	18	5	10
S	+050W	10	0.2	12	5	8
S	+075W	8	0.2	10	5	10
S	+100W	14	0.2	8	5	16
S	PE 000+125W	8	0.2	12	5	4
S	PE 050+075E	10	0.2	8	5	6
S	+050E	6	0.2	8	5	6
S	+025E	10	0.2	10	30	2
S	+000	6	0.2	6	5	2
S	+025W	10	0.2	10	5	4
S	+050W	8	0.2	8	5	4
S	+075W	10	0.2	10	5	4
S	+100W	8	0.2	10	5	8
S	PE 050+125W	10	0.2	8	20	4
S	PE 100+075E	34	0.2	18	5	16
S	+050E	16	0.2	10	5	4
S	+025E	8	0.2	6	5	4
S	+000	32	0.2	8	5	8
S	+025W	10	0.2	8	5	4
S	+050W	10	0.2	8	5	4
S	+075W	14	0.2	12	5	8
S	+100W	12	0.2	8	5	10
S	PE 100+125W	14	0.2	6	5	6
S	PE 150+075E	8	0.2	8	5	4
S	+050E	12	0.2	6	5	4
S	+025E	12	0.2	8	5	2
S	+000	10	0.2	8	5	6
S	+025W	8	0.2	6	5	4
S	+050W	10	0.2	6	5	6
S	+075W	10	0.2	8	5	4
S	+100W	10	0.2	8	5	4
S	PE 150+125W	10	0.2	8	5	8
S	PE 200+075E	14	0.2	10	5	8
S	+050E	8	0.2	6	5	6
S	+025E	12	0.2	6	5	12
S	PE 200+000	8	0.2	6	5	4

CERTIFIED BY : J. Rossbacher

ROSSBACHER LABORATORY LTD.

2225 S. SPRINGER AVENUE
BURNABY, B.C. V5B 3N1
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CERTIFICATE OF ANALYSIS

TO : CHAPLEAU RESOURCES LTD.
2100 N. 4TH ST.
CRANBROOK, B.C.

PROJECT:
TYPE OF ANALYSIS: GEOCHEMICAL

CERTIFICATE#: 87327
INVOICE#: 7774
DATE ENTERED: 87-07-16
FILE NAME: CHA87327
PAGE # : 2

PRE FIX	SAMPLE NAME	PPM Cu	PPM Ag	PPM Pb	PPB Au	PPM As
S	PE 200+025W	14	0.2	16	5	6
S	+050W	10	0.2	10	5	2
S	+075W	8	0.2	8	5	2
S	+100W	8	0.2	8	5	2
S	PE 200+125W	10	0.2	8	5	4
S	PE 250+075E	8	0.2	42	5	12
S	+050E	8	0.2	8	5	4
S	+025E	8	0.2	4	5	6
S	+000	6	0.2	8	5	4
S	+025W	6	0.2	4	5	2
S	+050W	10	0.6	6	5	4
S	+075W	8	0.2	6	5	4
S	+100W	8	0.2	6	5	2
S	PE 250+125W	40	0.2	16	5	12
S	PE 300+075E	12	0.2	6	5	10
S	+050E	6	0.2	4	5	2
S	+025E	8	0.2	4	210	8
S	+000	6	0.2	6	5	6
S	+025W	10	0.2	12	5	4
S	+050W	8	0.2	4	5	4
S	+075W	8	0.2	6	5	2
S	+100W	14	0.2	10	5	4
S	PE 300+125W	8	0.2	8	5	6
S	PE 350+075E	4	0.2	4	5	6
S	+050E	8	0.2	4	5	4
S	+025E	10	0.2	4	5	4
S	+000	8	0.2	4	5	4
S	+025W	4	0.2	2	10	12
S	+050W	8	0.2	6	5	12
S	+075W	8	0.2	8	5	12
S	+100W	8	0.2	8	5	4
S	PE 350+125W	8	0.2	8	5	4
S	PE 400+075E	4	0.2	4	5	2
S	+050E	6	0.2	4	5	8
S	+025E	8	0.2	4	5	6
S	+000	12	0.2	8	5	10
S	+025W	10	0.2	6	5	6
S	+050W	12	0.2	8	5	16
S	+075W	8	0.2	6	5	4
S	PE 400+100W	6	0.2	10	5	10

CERTIFIED BY : J. Rossbach

C

ROSSBACHER LABORATORY LTD.

CERTIFICATE OF ANALYSIS

2225 S. SPRINGER AVENUE
BURNABY, B.C. V5B 3N1
TEL : (604) 299 - 6910

TO : CHAPLEAU RESOURCES LTD.
2100 N. 4TH ST.
CRANBROOK, B.C.

PROJECT:
TYPE OF ANALYSIS: GEOCHEMICAL

CERTIFICATE#: 87327
INVOICE#: 7774
DATE ENTERED: 87-07-16
FILE NAME: CHA87327
PAGE # : 3

PRE FIX	SAMPLE NAME	PPM Cu	PPM Ag	PPM Pb	PPB Au	PPM As
S	PE 400+125W	14	0.2	18	5	10
S	PE 450+075E	8	0.2	6	5	2
S	+050E	6	0.2	6	5	4
S	+025E	4	0.2	4	5	8
S	000	8	0.2	8	5	10
S	+025W	8	0.2	6	5	2
S	+050W	8	0.2	6	5	2
S	+075W	10	0.2	12	5	2
S	+100W	12	0.2	8	5	2
S	PE 450+125W	10	0.2	8	5	2
S	PE 500+075E	6	0.2	8	5	6
S	+050E	4	0.2	6	5	2
S	+025E	8	0.2	6	5	4
S	+000	4	0.2	8	5	2
S	+025W	4	0.2	6	5	4
S	+050W	8	0.2	6	5	12
S	+075W	6	0.2	8	5	6
S	+100W	6	0.2	6	5	2
S	PE 500+125W	8	0.2	8	5	4
S	LIM CK 1	2	0.2	6	5	2
S	2	4	0.2	6	5	2
S	Bulk Sample. 3	2	0.2	8	5	2
S	4	2	0.2	8	5	2
S	5	4	0.2	6	5	4
S	6 Manchester	4	0.2	10	860	2
S	7 Walsh	4	0.2	6	180	2
S	8 Upper Wahnt	4	0.2	6	3340	2
S	9	4	0.2	8	10	2
S	10	4	0.2	6	5	2
S	11 Wahnta (S)	2	0.2	8	800	8
S	12	6	0.2	10	5	2
S	13	4	0.2	6	10	4
S	14	8	0.2	12	5	2
S	15 Liverpool	4	0.2	8	1180	2
S	LIM CK 16	4	0.2	8	5	2

Samples = 99
$\bar{X}$ = 11.13
S = 14.26
$\bar{X}$+2S = 39.65 Threshold
$\bar{X}$+3S = 53.91 Anomalous

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(2) (3)

ROSSBACHER LABORATORY LTD.

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BURNABY, B.C. V5B 3N1
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CERTIFICATE OF ANALYSIS

TO : CHAPLEAU RESOURCES LTD.
2100 N. 4TH ST.
CRANBROOK, B.C.

PROJECT:
TYPE OF ANALYSIS: GEOCHEMICAL

CERTIFICATE#: 87350
INVOICE#: 7799
DATE ENTERED: 87-07-29
FILE NAME: CHP87350
PAGE # : 1

Base line 1 Shorty Creek

PRE FIX	SAMPLE NAME	PPM Cu	PPM Ag	PPM Zn	PPM Pb	PPB Au	PPM As
S	BL-1 00+00 1000	12	0.2		14	5	12
S	+025E	32	0.2		12	10	18
S	+050E	6	0.2		16	5	4
S	00 +100E	8	0.2		14	5	4
S	00 +025W	2	0.2		6	5	2
S	+040W	12	0.2		10	5	10
S	+050W	8	0.2		8	5	4
S	+100W	10	0.2		16	5	14
S	+150W	12	0.2		14	5	14
S	00 +200W	10	0.2		8	90	10
S	25N+000	28	0.2		14	5	2
S	+025E	12	0.2		8	5	2
S	★ 25N+100E	8	0.2		10	5	2
S	25N+025W	16	0.2		14	10	8
S	+050W	10	0.2		22	5	10
S	+100W	14	0.2		18	5	12
S	+150W	8	0.2		18	5	10
S	25N+200W	8	0.2		22	5	6
S	25S+000	14	0.2		18	5	6
S	+025E	46	0.2		26	5	18
S	+050E	38	0.2		16	190	12
S	25S+100E	2	0.2		4	480	2
S	25S+025W-FAULT	12	0.2		6	5	12
S	+050W	10	0.2		6	5	6
S	+050W	4	0.2		10	140	2
S	25S+100W	18	0.2		14	20	10
S	50S+000	36	0.2		16	50	16
S	50S+025E	60	0.2		20	10	18
S	50N+000	16	0.2		2	5	6
S	+025E	6	0.2		10	5	6
S	+050E	8	0.2		10	20	6
S	50N+100E	10	0.2		12	5	4
S	50N+025W	18	0.2		26	5	16
S	+050W	14	0.2		10	5	10
S	+100W	26	0.2		24	5	18
S	+150W	14	0.2		20	5	14
S	50N+200W	12	0.2		6	5	6
S	→ 75N+018E	24	0.2		18	50	4
S	+060E	10	0.2		16	5	10
S	BL-1 00+075N+100E	10	0.2		14	40	10

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CERTIFICATE OF ANALYSIS

TO : CHAPLEAU RESOURCES LTD.
2100 N. 4TH ST.
CRANBROOK, B.C.

PROJECT:
TYPE OF ANALYSIS: GEOCHEMICAL

CERTIFICATE#: 87350
INVOICE#: 7799
DATE ENTERED: 87-07-29
FILE NAME: CHP87350
PAGE # : 2

PRE FIX	SAMPLE NAME	PPM Cu	PPM Ag	PPM Zn	PPM Pb	PPB Au	PPM As
S	BL-I 00+075+011E	12	0.2		16	5	14
S	+050E	24	0.2		6	5	8
S	075N+100E	14	0.2		18	5	16
S	100N+025E	28	0.2		12	5	6
S	+050E	14	0.2		4	5	2
S	100N+100E	6	0.2		10	5	2
S	100N+025W	18	0.2		8	5	4
S	+050W	18	0.2		12	5	2
S	+100W	18	0.2		18	5	12
S	100N+150W	10	0.2		18	5	4
S	125N+000	14	0.2		6	5	10
S	+050E	48	0.2		32	5	8
S	+100E	6	0.2		16	5	2
S	125N+150E	14	0.2		16	5	8
S	125N+050W	14	0.2		18	5	26
S	125N+100W	8	0.2		22	5	2
S	150N+050E	16	0.2		20	5	8
S	+100E	16	0.2		14	5	16
S	150N+150E	10	0.2		10	5	2
S	150N+050W	54	0.2		20	5	30
S	BL-I 00+150N+100W	14	0.2		16	5	18
L	SPU 87-10		0.2	70	16	5	
L	-20		0.2	80	32	5	
L	-30		0.4	80	32	5	
L	-40		0.2	52	18	5	
L	SPU 87-50		0.2	90	26	5	
S	BL-I 00+025N+050E	6	0.2	26	14	5	2
A	PU 87-01	6'-8"	66.0	>10000	10000	5	
A	-02	2½'-3'	58.0	>10000	10000	50	
A	-03	5'	28.0	422	8500	60	
A	-04	12'	4.2	150	1020	5	
A	PU 87-05	MISSING					
S	BL-I 00+075N	16	0.2		12	5	14
S	00+100N	22	0.2	18	8	5	4
S	BL-I 00+150N	14	0.2	44	16	5	2

Baseline / Shanty Cr

Chip rock Samples

Heavy fume

For Soils

For

CERTIFIED BY : J. Rossbach

(3)a

ROSSBACHER LABORATORY LTD.

2225 S. SPRINGER AVENUE
BURNABY, B.C. V5B 3N1
TEL : (604) 299 - 6910

CERTIFICATE OF ANALYSIS

TO : CHAPLEAU RESOURCES INC.
2100 N. 4TH ST.
CRANBROOK, B.C.

PROJECT:
TYPE OF ANALYSIS: GEOCHEMICAL

CERTIFICATE#: 87379
INVOICE#: 7829
DATE ENTERED: 87-08-04
FILE NAME: CHP87379
PAGE # : 1

PRE FIX	SAMPLE NAME		PPM Cu	PPM Ag	PPM Zn	PPM Pb	PPB Au	PPM As
S	BL-1 00+050S	200W	14	0.6		12	5	2
S	Base Line 1	150W	14	0.2		8	5	2
S	Shorty Cr	100W	6	0.2		12	5	2
S		050W	12	0.2		10	5	2
S		025W	36	0.8		18	5	24
S	00+050S	100E	6	0.4		6	100	4
S	00+075S	100W	20	0.2		8	5	12
S		050W	8	0.2		8	5	2
S		025W	16	0.4		6	5	12
S		000	10	0.2		4	20	5
S		050E	8	0.2		8	40	2
S	00+075S	100E	10	0.2		16	5	4
S	00+100S	200W	14	0.2		14	20	6
S		150W	18	0.2		6	60	20
S		100W	12	0.2		8	5	20
S		050W	12	0.2		8	5	8
S		000	14	0.4		12	5	8
S		050E	20	0.2		30	5	18
S	00+100S	100E	12	0.2		20	5	4
S	00+150S	200W	10	0.4		10	5	8
S		150W	18	0.2		12	20	8
S		100W	12	0.2		10	80	4
S		050W	14	0.2		26	5	10
S		000	8	0.2		28	150	2
S		050E	8	0.4		20	40	2
S	00+150S	100E	8	0.2		10	5	2
S	00+200S	200W	8	0.2		26	5	54
S		150W	6	0.2		22	5	6
S		100W	10	0.2		46	30	18
S		050W	12	0.4		38	5	8
S		000	8	0.2		28	40	12
S		050E	8	0.2		24	5	2
S	00+200S	100E	10	0.2		18	5	2
S	00+250S	200E	8	0.2		12	5	6
S		150E	14	0.4		6	5	8
S		100E	8	0.2		8	180	2
S		050E	4	0.2		4	270	2
S		000	4	0.2		18	5	6
S	BL-1 00+250S	050E	8	0.2		6	100	2

CERTIFIED BY : F. Rossbach

ROSSBACHER LABORATORY LTD.

2225 S. SPRINGER AVENUE
BURNABY, B.C. V5B 3N1
TEL : (604) 299 - 6910

CERTIFICATE OF ANALYSIS

TO : CHAPLEAU RESOURCES INC.
2100 N. 4TH ST.
CRANBROOK, B.C.

PROJECT:
TYPE OF ANALYSIS: GEOCHEMICAL

CERTIFICATE#: 87379
INVOICE#: 7829
DATE ENTERED: 87-08-04
FILE NAME: CHP87379
PAGE # : 2

PRE FIX	SAMPLE NAME		PPM Cu	PPM Ag	PPM Zn	PPM Pb	PPB Au	PPM As
S	BL-1	00+300S 200W	12	0.2		6	5	4
S		150W	10	0.2		10	5	2
S		100W	14	0.2		54	5	14
S		050W	14	0.2		20	90	12
S		000	14	0.4		20	5	6
S		00+300S 050E	20	0.2		40	120	12
S		00+350S 100W	40	0.2		28	300	2
S		050W	24	0.2		24	5	8
S		000	8	0.2		2	5	2
S		00+350S 050E	8	0.4		8	5	4
S		00+400S 130W	16	0.2		18	300	2
S		050W	14	0.2		18	5	2
S		000	12	0.2		8	5	2
		00+400S 050E	6	0.2		4	5	2
S		00+450S 000	16	0.4		6	5	20
S		050E	10	0.2		6	40	16
S	BL-1	00+450S 080E	124	1.2		50	110	14
S	BL-2	00+100N 232W	6	0.4		4	5	10
S		200W	6	0.2		4	5	10
S		150W	10	0.4		8	5	16
S		100W	42	0.2		8	5	18
S		050W	14	0.2		6	8	20
S		000	12	0.2		14	5	4
S		00+100N 050E	8	0.2		6	5	4
S		00+150N 190W	10	0.2		8	190	4
S		150W	14	0.2		6	5	10
S		100W	8	0.2		4	5	6
S		050W	6	0.2		2	5	4
S		000	6	0.2		12	5	2
S		050E	6	0.2		4	5	2
S		00+150N 100E	2	0.2		2	5	6
S		00+200N 193W	4	0.2		6	5	4
S		150W	14	0.2		20	5	10
S		100W	8	0.2		8	80	10
S		050W	8	0.4		4	5	2
S		000	6	0.2		4	5	2
S		050E	12	0.2		4	5	10
S		00+200N 110E	8	0.2		2	5	2
		00+250N 243W	10	0.4		10	5	4

Base line 2 Shoot Creek Limerick

CERTIFIED BY : J. Rossbach

ROSSBACHER LABORATORY LTD.
2225 S. SPRINGER AVENUE
BURNABY, B.C. V5E 3N1
TEL : (604) 299 - 6910

CERTIFICATE OF ANALYSIS

TO : CHAPLEAU RESOURCES INC.
2100 N. 4TH ST.
CRANBROOK, B.C.

PROJECT:
TYPE OF ANALYSIS: GEOCHEMICAL

CERTIFICATE#: 87379
INVOICE#: 7829
DATE ENTERED: 87-08-04
FILE NAME: CHP87379
PAGE # : 3

Base line 2
Limerick Cr.

PRE FIX	SAMPLE NAME	PPM Cu	PPM Ag	PPM Zn	PPM Pb	PPB Au	PPM As
S	BL-2 00+250N 200W	6	0.4		6	5	6
S	150W	4	0.2		4	5	6
S	100W	8	0.4		6	5	4
S	050W	8	0.2		6	5	8
S	000	12	0.2		2	5	4
S	050E	4	0.2		2	5	2
S	100E	4	0.2		2	5	2
S	00+250N 150E	6	0.2		10	5	2
S	00+300N 200W	8	0.2		10	5	2
S	150W	8	0.2		4	5	10
S	100W	4	0.2		2	5	2
S	050W	6	0.2		2	5	2
S	000	6	0.2		2	5	2
S	050E	4	0.2		4	5	2
S	100E	6	0.2		10	460	2
S	150E	6	0.2		2	5	2
S	00+300N 200E	4	0.2		2	5	2
S	00+350N 238W	8	0.2		8	5	2
S	200W	6	0.4		6	5	2
S	150W	4	0.4		2	5	2
S	100W	12	0.2		4	5	2
S	050W	8	0.2		4	5	2
S	000	2	0.2		2	5	2
S	050E	8	0.4		4	5	2
S	100E	8	0.2		4	5	2
S	150E	6	0.2		6	5	2
S	00+350N 214E	4	0.2		2	5	2
S	00+400N 200W	8	0.2		8	50	2
S	150W	6	0.2		4	5	2
S	100W	2	0.2		4	5	2
S	050W	2	0.2		4	5	2
S	000	8	0.2		4	5	2
S	050E	6	0.4		4	5	2
S	100E	2	0.4		2	5	2
S	150E	8	0.4		6	5	2
S	00+400N 200E	6	0.2		10	5	2
S	00+450N 185W	6	0.2		14	3100	2
S	150W	4	0.2		2	5	2
S	BL-2 00+450N 100W	4	0.4		6	5	2

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ROSSBACHER LABORATORY LTD.

2225 S. SPRINGER AVENUE
BURNABY, B.C. V5B 3N1
TEL : (604) 299 - 6910

CERTIFICATE OF ANALYSIS

TO : CHAPLEAU RESOURCES INC.
2100 N. 4TH ST.
CRANBROOK, B.C.

PROJECT:
TYPE OF ANALYSIS: GEOCHEMICAL

CERTIFICATE#: 87379
INVOICE#: 7829
DATE ENTERED: 87-08-04
FILE NAME: CHP87379
PAGE # : 4

Base line 2
Limerock Cr

PRE FIX	SAMPLE NAME		PPM Cu	PPM Ag	PPM Zn	PPM Pb	PPB Au	PPM As
S	BL-2	00+450N 050W	12	0.2		6	5	2
S		000	8	0.2		2	5	2
S		050E	12	0.4		4	5	6
S		100E	6	0.2		2	5	2
S		150E	4	0.4		2	5	8
S		200E	8	0.2		2	5	4
S		00+450N 255E	4	0.2		4	5	4
S		00+500N 200W	6	0.2		6	5	8
S		150W	10	0.4		6	5	16
S		100W	4	0.2		4	5	6
S		050W	8	0.4		2	5	10
S		000	8	0.2		2	5	4
S		050E	8	0.2		6	5	10
S		100E	8	0.4		4	5	8
S		150E	6	0.4		4	5	6
S		00+500N 200E	6	0.2		6	5	2
S		00+550N 188W	10	0.2		12	5	6
S		150W	8	0.2		6	5	4
S		100W	4	0.4		2	5	4
S		050W	8	0.2		4	5	4
S		000	4	0.2		2	5	2
S		050E	4	0.2		4	5	6
S		100E	4	0.2		4	5	4
S		00+550N 150E	14	0.2		8	5	8
S		00+600N 200W	8	0.2		80	230	6
S		150W	10	0.2		8	10	4
S		100W	2	0.2		4	5	2
S		050W	8	0.2		18	5	2
S		000	10	0.2		2	5	2
S		050E	2	0.2		6	150+	2
S		100E	4	0.2		4	5	2
S		00+600N 150E	8	0.4		6	5	2
S		00+650N 185W	12	0.2		4	220+	4
S		150W	4	0.2		2	5	2
S		100W	8	0.2		8	5	4
S		050W	12	0.4		4	5	2
S		000	6	0.4		4	5	4
S		050E	6	0.2		2	5	2
S	BL-2	00+650N 100E	10	0.2		4	5	2

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ROSSBACHER LABORATORY LTD.

2225 S. SPRINGER AVENUE
BURNABY, B.C. V5B 3N1
TEL : (604) 299 - 6910

CERTIFICATE OF ANALYSIS

TO : CHAPLEAU RESOURCES INC.
2100 N. 4TH ST.
CRANBROOK, B.C.

PROJECT:
TYPE OF ANALYSIS: GEOCHEMICAL

CERTIFICATE#: 87379
INVOICE#: 7829
DATE ENTERED: 87-08-04
FILE NAME: CHP87379
PAGE # : 5

PRE FIX	SAMPLE NAME	PPM Cu	PPM Ag	PPM Zn	PPM Pb	PPB Au	PPM As
S	BL-2 00+650N 150E	6	0.2		2	5	2
S	00+700N 100W	8	0.2		10	5	2
S	050W	8	0.2		2	5	2
S	000	6	0.2		4	5	2
S	050E	8	0.2		2	5	2
S	100E	14	0.2		6	5	2
S	00+700N 150E	12	0.2		2	5	10
S	00+750N 144W	8	0.2		8	5	2
S	100W	8	0.2		4	5	2
S	050W	10	0.2		4	5	2
S	000	14	0.2		6	5	2
S	050E	4	0.2		2	5	2
S	100E	6	0.2		4	5	2
S	00+750N 150E	8	0.2		10	5	8
S	00+800N 150W	8	0.2		6	5	8
S	100W	10	0.2		8	5	8
S	Baseline 2 050W	10	0.2		6	160	10
S	Limerock Cr 000-A	4	0.2		6	5	10
S	000-B	4	0.2		2	5	8
S	050E	4	0.2		2	90	2
S	100E	10	0.2		2	5	2
S	00+800N 150E	6	0.2		8	5	2
S	00+850N 087W	10	0.2		12	5	4
S	050W	10	0.2		4	5	2
S	050E	8	0.2		2	5	6
S	100E	8	0.2		4	10	6
S	00+850N 150E	6	0.2		4	40	2
S	00+900N 300W	8	0.2		6	5	16
S	250W	16	0.2		12	5	8
S	200W	14	0.2		6	5	12
S	150W	12	0.2		4	5	2
S	100W	10	0.2		8	5	2
S	050W	10	0.2		8	5	2
S	000	12	0.2		12	5	2
S	050E	8	0.2		2	5	2
S	100E	12	0.2		4	5	2
S	150E	8	0.2		4	5	2
S	200E	MISSING					
S	BL-2 00+900 250E	4	0.2		4	5	2

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ROSSBACHER LABORATORY LTD.
2225 S. SPRINGER AVENUE
BURNABY, B.C. V5B 3N1
TEL : (604) 299 - 6910

CERTIFICATE OF ANALYSIS

TO : CHAPLEAU RESOURCES INC.
2100 N. 4TH ST.
CRANBROOK, B.C.

PROJECT:
TYPE OF ANALYSIS: GEOCHEMICAL

CERTIFICATE#: 87379
INVOICE#: 7829
DATE ENTERED: 87-08-04
FILE NAME: CHP87379
PAGE # : 6

PRE FIX	SAMPLE NAME	PPM Cu	PPM Ag	PPM Zn	PPM Pb	PPB Au	PPM As
S	BL-2 00+900N 300E	4	0.2		2	5	2
S	00+950N 300W	10	0.2		16	5	2
S	250W	8	0.2		14	5	2
S	200W	10	0.2		10	10	2
S	150W	10	0.2		4	5	2
S	100W	12	0.2		6	5	2
S	050W	10	0.2		4	5	2
S	00+ 950N 000	12	0.2		10	5	2
S	00+1000N 200W	16	0.2		10	5	6
S	150W	16	0.4		12	5	6
S	100W	6	0.2		4	220	2
S	050W	8	0.4		8	60-	6
S	BL-2 00+1000N 000W	10	0.2		8	20	2
S	BL-2 01+ 050N 200W	14	0.2		8	5	2
S	(1,050N) 150W	10	0.4		6	5	2
S	100W	16	0.2		6	5	2
S	050W	24	0.2		8	5	2
S	01+050N 000	10	0.2		6	150-	2
S	01+100N 100W	10	0.2		4	5	2
S	050W	26	0.2		20	5	2
S	Base Line 2 000	16	0.2		10	5	2
S	050E	10	0.2		6	30 -	2
S	Limerick Cr 100E	10	0.2		12	10	2
S	150E	8	0.2		6	5	2
S	200E	MISSING					
S	250E	4	0.2		6	20	2
S	300E	8	0.2		10	5	2
S	01+100N 350E	4	0.2		4	5	2
S	01+150N 100W	12	0.2		6	5	2
S	050W	16	0.2		6	10	2
S	000	10	0.2		10	5	4
S	01+150N 050E	26	0.2		12	5	2
S	01+200N 100W	18	0.2		12	5	2
S	050W	14	0.2		12	5	8
S	000	10	0.2		22	5	10
S	052E	14	0.2		8	5	8
S	01+200N 100E	16	0.2		16	5	8
S	01+250N 050W	28	0.2		8	90-	12
S	BL-2 01+250N 000	14	0.6		14	10	12

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ROSSBACHER LABORATORY LTD.
2225 S. SPRINGER AVENUE
BURNABY, B.C. V5B 3N1
TEL : (604) 299 - 6910

CERTIFICATE OF ANALYSIS

TO : CHAPLEAU RESOURCES INC.
2100 N. 4TH ST.
CRANBROOK, B.C.

PROJECT:
TYPE OF ANALYSIS: GEOCHEMICAL

CERTIFICATE#: 87379
INVOICE#: 7829
DATE ENTERED: 87-08-04
FILE NAME: CHP87379
PAGE # : 7

PRE FIX	SAMPLE NAME	PPM Cu	PPM Ag	PPM Zn	PPM Pb	PPB Au	PPM As
S	BL-2 01+250N 050E	16	0.4		6	5	8
S	BL-2 01+250N 100E	32	0.2		8	5	12
S	KP 87-01	8	0.4	86	10	5	
S	BL-1 00+75S 025E	10	0.6	36	18	50	4

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TEL : (604) 299 - 6910

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2100 N. 4TH ST.
CRANBROOK, B.C.

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CERTIFICATE#: 87379
INVOICE#: 7829
DATE ENTERED: 87-08-04
FILE NAME: CHP87379
PAGE # : 8

PRE FIX	SAMPLE NAME	PPM Cu	PPM Ag	PPM Zn	PPM Pb	PPB Au	PPM As
A	Rx,10 14501	80	0.4		52	5	6
A	10 14502	42	0.6		10	10	8
A	11 14503	4	0.4		4	5	2
A	HM 14504	312	4.2		1280	22400	154
A	Rock 11 14505	12	0.2		14	40	2
A	11 10 14506	12	0.2		6	20	6
A	10 14507	4	0.2		4	5	2
A	10 14508	8	0.2		2	5	2
A	10 14509	2	0.2		2	5	2
A	7 14510	2	0.2		2	5	2
A	10 14511	330	0.4		86	5	4
A	10 14512	104	0.2		26	5	2
A	14513	4	0.2		2	5	2
A	14514	74	0.2		42	5	2
A	14515	334	1.8		90	5	16
A	14516	6	0.4		8	5	2
A	14517	2	0.4		2	5	2
A	14518	2	0.2		10	5	2
A	Negroe N 87-01					5	
A	-02			80	28		
A	-03			36	10	5	2
A	-04			40	64	5	2
A	N 87-05			32	24	5	20

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CERTIFICATE OF ANALYSIS

TO : CHAPLEAU RESOURCES INC.
2100 N. 4TH ST.
CRANBROOK, B.C.

Perry

PROJECT:
TYPE OF ANALYSIS: GEOCHEMICAL

CERTIFICATE#: 87385
INVOICE#: 7871
DATE ENTERED: 87-08-12
FILE NAME: CHP87385
PAGE # : 1

PRE FIX	SAMPLE NAME	PPM Cu	PPM Ag	PPM Pb	PPB Au	PPM As
A	37813	4	0.2	12	5	2
A	37814	4	0.2	8	5	4
A	37815	4	0.2	10	5	2
A	37816	6	0.4	102	130	2
A	37817	10	0.2	30	40	2
A	37818	2	0.2	4	5	2
A	14519	2	0.2	4	5	8
A	14520	2	0.2	4	5	2
A	14521	12	0.2	28	5	4
A	14522	388	6.8	720	14000	2
A	14523	6	0.2	4	5	4
A	14524	4	0.2	12	40	4
A	14525	2	0.2	4	5	2
S	01+300N+000E	16	0.2	8	5	2
S	+050E	8	0.2	38	5	2
S	+100E	22	0.2	10	5	4
S	+150E	12	0.2	18	20	2
S	+194E	8	0.2	12	10	2
S	+310E	4	0.2	6	5	2
S	+350E	8	0.2	8	5	2
S	+400E	6	0.2	10	5	2
S	01+300N+050W	16	0.2	20	5	2
S	01+350N+000	10	1.0	16	5	2
S	+050E	42	0.4	14	5	2
S	+100E	20	0.2	14	5	2
S	+150E	20	0.4	12	5	2
S	+200E	10	0.2	8	5	2
S	+250E	8	0.2	12	5	2
S	+300E	10	0.4	12	5	2
S	+400E	8	0.4	12	5	2
S	+450E	10	0.4	10	5	2
S	01+350N+050W	10	0.4	8	5	2

BL2

Shorty Creek Base Line 2

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CERTIFICATE OF ANALYSIS

TO : CHAPLEAU RESOURCES LTD.
2100 N. 4TH ST.
CRANBROOK, B.C.

PROJECT:
TYPE OF ANALYSIS: GEOCHEMICAL

CERTIFICATE#: 87435
INVOICE#: 7924
DATE ENTERED: 87-08-24
FILE NAME: CHP87435
PAGE # : 1

left to right.

PREFIX	SAMPLE NAME	PPM Cu	PPM Ag	PPM Zn	PPM Pb	PPB Au	PPM As
S	Grass Bar FC-BL 1 1+ 00	18	0.4	86	16	5	20
S	1+ 50	12	0.2	76	8	5	22
S	9 BL #1 1+ 75	20	0.4	66	24	5	24
S	1+ 100	22	0.2	58	14	5	24
S	Bar 6 1+ 150	12	0.4	56	12	30	16
S	Palmar 1+ 200	16	0.2	62	20	130	28
S	1+ 250	18	0.2	62	18	5	26
S	Base Line 1 1+ 300	26	0.4	66	26	5	30
S	1+ 350	10	0.2	50	14	5	22
S	1+ 400	12	0.2	50	14	5	20
S	1+ 450	16	0.2	86	16	5	16
S	1+ 500	18	0.4	70	24	10	24
S	1+ 550	12	0.2	56	10	5	22
	1+ 600	10	0.2	62	10	5	12
S	1+ 650	10	0.2	76	12	5	10
S	1+ 700	26	0.2	60	16	5	16
S	1+ 800	12	0.4	68	12	5	14
S	1+ 850	10	0.2	70	10	50	16
S	1+ 900	10	0.4	66	6	5	14
S	FC-BL 1 1+ 950	14	0.4	108	10	30	20
S	1+1000	14	0.4	90	10	5	18
S	Base Line 1 1+1050	18	0.4	90	12	5	10
S	Palmar Bar 1+1100	12	0.2	88	10	10	22
S	1+1150	16	0.2	44	10	5	18
S	1+1200	12	0.2	58	6	5	20
S	1+1250	14	0.2	56	8	5	14
S	1+1300	18	0.4	58	10	5	14
S	1+1350	10	0.2	82	8	5	16
S	1+1400	10	0.2	64	8	5	12
S	1+1450	16	0.2	56	8	20	18
S	1+1500	10	0.2	56	6	5	14
S	1+1550	16	0.2	72	10	5	16
S	1+1600	12	0.4	96	8	5	12
S	1+1650	18	0.2	80	8	5	12
S	1+1700	10	0.2	68	10	5	14
S	1+1750	10	0.2	86	10	5	18
S	1+1800	8	0.4	90	8	5	16
S	1+1850	10	0.2	98	10	5	12
	FC-BL 1 1+1900	8	0.4	80	8	5	12

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CERTIFICATE OF ANALYSIS

2225 S. SPRINGER AVENUE
BURNABY, B.C. V5B 3N1
TEL : (604) 299 - 6910

TO : CHAPLEAU RESOURCES LTD.
2100 N. 4TH ST.
CRANBROOK, B.C.

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CERTIFICATE#: 87435
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DATE ENTERED: 87-08-24
FILE NAME: CHP87435
PAGE # : 2

PRE FIX	SAMPLE NAME	PPM Cu	PPM Ag	PPM Zn	PPM Pb	PPB Au	PPM As
S	FC-BL 1 1+1950	16	0.2	90	12	5	12
S	1+2000	8	0.2	52	16	5	10
S	1+2050	18	0.2	80	20	5	24
S	1+2100	16	0.2	148	22	5	14
S	1+2150	20	0.2	82	20	5	22
S	1+2200	16	0.2	92	18	5	20
S	1+2250	18	0.2	166	20	5	12
S	1+2300	30	0.2	136	34	5	20
S	1+2350	14	0.2	110	16	5	12
S	1+2400	16	0.2	60	12	5	16
S	FC-BL 1 1+2450	12	0.4	64	8	5	10
S	FC-BL 2 2+ 00	24	0.4	84	40	5	16
	2+ 50	10	0.2	62	12	5	8
	2+ 100	10	0.2	36	12	5	16
S	2+ 150	16	0.2	48	12	5	6
S	2+ 200	18	0.2	56	22	5	14
S	2+ 250	12	0.2	48	10	5	8
S	2+ 300	10	0.2	52	14	5	6
S	2+ 350	10	0.2	52	8	5	4
S	FC-BL 2 2+ 400	20	0.2	86	18	5	16
S	2+ 450	12	0.2	44	18	5	12
S	2+ 500	6	0.2	46	12	5	10
S	2+ 550	10	0.2	70	16	5	10
S	2+ 600	12	0.2	48	14	5	12
S	2+ 650	6	0.2	38	8	5	12
S	2+ 700	6	0.2	52	8	5	16
S	2+ 750	10	0.2	66	12	5	10
S	2+ 800	20	0.2	78	16	5	20
S	2+ 850	10	0.4	48	14	5	10
S	2+ 900	8	0.4	80	12	5	8
S	2+ 950	14	0.2	52	12	5	12
S	2+1000	8	0.2	94	12	5	16
S	2+1050	6	0.4	52	8	5	8
S	2+1100	10	0.2	76	16	5	12
S	2+1200	14	0.2	64	12	5	10
S	2+1300	16	0.4	56	14	5	14
S	2+1450	8	0.2	52	10	5	16
	2+1550	8	0.2	54	14	5	6
	2+1750	12	0.4	62	10	5	10
S	FC-BL 2+1800	8	0.2	48	8	5	4

Palmar Bar Creek
Base line
Base line 2
Palmar Bar creek.
Base line 2:

40

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2225 S. SPRINGER AVENUE
BURNABY, B.C. V5B 3N1
TEL : (604) 299 - 6910

CERTIFICATE OF ANALYSIS

TO : CHAPLEAU RESOURCES LTD.
2100 N. 4TH ST.
CRANBROOK, B.C.

PROJECT:
TYPE OF ANALYSIS: GEOCHEMICAL

CERTIFICATE#: 87435
INVOICE#: 7924
DATE ENTERED: 87-08-24
FILE NAME: CHP87435
PAGE # : 3

PRE FIX	SAMPLE NAME	PPM Cu	PPM Ag	PPM Zn	PPM Pb	PPB Au	PPM As
S	C-BL B1 0+ 00	34	0.2	56	10	5	14
S	0+ 25	32	0.4	98	10	5	6
S	0+ 50	18	0.4	92	10	5	14
S	0+ 75	154	0.4	86	12	5	20
S	0+100	64	0.2	84	8	5	12
S	0+125	76	0.2	108	10	5	26
S	0+150	38	0.2	98	12	5	16
S	0+175	34	0.2	36	10	5	16
S	Gosson Hill 0+200	74	0.6	68	26	50	60
S	0+225	16	0.2	68	14	5	16
S	0+250	8	0.2	68	8	5	8
S	0+275	20	0.2	48	8	5	8
S	0+300	12	0.2	70	10	5	20
S	0+325	12	0.2	86	14	5	10
S	0+350	16	0.2	64	10	5	12
S	0+375	12	0.2	60	10	5	12
S	0+400	14	0.2	62	12	5	16
S	0+425	10	0.2	132	30	5	8
S	0+450	18	0.2	66	10	5	10
S	C-BL B1 0+475	10	0.2	48	6	5	6
S	C-BL B2 0+ 00	MISSING					
S	0+ 25	MISSING					
S	0+ 50	MISSING					
S	0+ 75	MISSING					
S	0+100	MISSING					
S	0+125	MISSING					
S	0+150	MISSING					
S	0+175	MISSING					
S	0+200	MISSING					
S	0+225	MISSING					
S	0+250	MISSING					
S	0+275	MISSING					
S	0+300	MISSING					
S	0+325	MISSING					
S	0+350	MISSING					
S	0+375	MISSING					
S	0+400	MISSING					
S	0+425	MISSING					
S	0+450	MISSING					

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OSSBACHER LABORATORY LTD.

2225 S. SPRINGER AVENUE
BURNABY, B.C. V5B 3N1
TEL : (604) 299 - 6910

CERTIFICATE OF ANALYSIS

TO : CHAPLEAU RESOURCES LTD.
2100 N. 4TH ST.
CRANBROOK, B.C.

PROJECT:
TYPE OF ANALYSIS: GEOCHEMICAL

CERTIFICATE#: 87435
INVOICE#: 7924
DATE ENTERED: 87-08-24
FILE NAME: CHP87435
PAGE # : 4

PRE FIX	SAMPLE NAME	PPM Cu	PPM Ag	PPM Zn	PPM Pb	PPB Au	PPM As
S	C-BL B2 0+475	MISSING					
S	C-BL B2 0+500	MISSING					
S	C-BL B1E 0+ 25	42	0.2	62	12	5	2
S	0+ 50	42	0.4	60	8	5	2
S	0+ 75	36	0.4	92	16	5	12
S	0+100	24	0.2	38	10	5	4
S	0+125	18	0.2	64	8	5	4
S	0+150	20	0.2	36	4	5	2
S	0+175	40	0.2	38	4	5	14
S	0+200	20	0.2	38	4	5	12
S	0+225	12	0.2	54	6	5	18
S	0+250	14	0.2	92	8	5	10
S	Gossan Hill 0+275	6	0.2	28	4	5	12
S	0+300	10	0.2	92	6	5	2
S	0+325	14	0.2	84	6	5	2
S	0+350	8	0.2	86	8	5	6
S	0+375	16	0.2	54	8	5	2
S	0+400	14	0.2	60	12	5	6
S	0+425	12	0.2	54	8	5	2
S	C-BL B1E 0+450	10	0.2	72	8	5	6
S	C-BL B2E 0+ 50	38	0.2	60	12	5	10
S	0+100	26	0.2	24	40	5	4
S	0+150	24	0.4	46	22	5	4
S	0+200	10	0.4	46	4	5	2
S	0+250	12	0.2	96	4	5	6
S	0+300	8	0.2	40	8	5	16
S	0+350	30	0.2	120	8	5	14
S	0+400	20	0.2	102	8	5	12
S	C-BL B2E 0+450	30	0.2	122	24	5	20
S	C-BL B3E 0+ 00	16	0.2	8	12	5	10
S	0+ 50	38	0.2	50	6	5	8
S	0+100	110	0.2	52	40	5	8
S	0+150	128	0.2	14	8	5	14
S	0+200	50	0.2	24	2	10	12
S	0+250	52	0.2	62	24	5	10
S	0+300	28	0.2	50	22	5	16
S	0+350	4	0.2	34	4	5	4
S	0+400	6	0.2	76	4	5	10
S	C-BL B3E 0+450	8	0.2	84	12	5	10

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CERTIFICATE OF ANALYSIS

TO : CHAPLEAU RESOURCES LTD.
2100 N. 4TH ST.
CRANBROOK, B.C.

PROJECT:
TYPE OF ANALYSIS: GEOCHEMICAL

CERTIFICATE#: 87435
INVOICE#: 7924
DATE ENTERED: 87-08-24
FILE NAME: CHP87435
PAGE # : 5

PRE FIX	SAMPLE NAME	PPM Cu	PPM Ag	PPM Zn	PPM Pb	PPB Au	PPM As
S	C-BL B3E 0+500	18	0.2	62	12	5	6
S	C-BL B4E 0+ 00	10	0.2	92	12	5	2
S	0+ 50	8	0.2	66	10	5	2
S	0+100	14	0.2	60	12	5	2
S	0+150	8	0.2	72	8	5	8
S	0+200	18	0.2	54	8	5	8
S	Gosson Hill 0+250	16	0.2	48	10	5	4
S	0+300	24	0.2	74	12	5	10
S	0+350	46	0.2	110	12	5	26
S	0+400	18	0.2	64	14	5	4
S	0+450	12	0.2	44	8	5	8
S	0+500	6	0.2	38	6	5	2
S	C-BL B4E 0+550.	10	0.2	62	6	5	6
S	C-BL B2W 0+100	20	0.2	104	6	5	2
S	0+150	147	0.2	120	8	10	2
S	0+200	16	0.2	64	6	5	2
S	0+250	10	0.2	62	10	5	4
S	0+300	6	0.2	80	8	5	6
S	0+350	12	0.2	76	20	5	8
S	0+400	8	0.2	98	26	5	10
S	C-BL B2W 0+450	12	0.4	74	14	5	6
S	BL-4 00+ 50E + 50S	4	0.2	40	4	5	4
S	Wuhun Creek + 00	6	0.2	58	4	5	6
S	Base line + 50N	10	0.2	54	10	5	8
S	+100N	6	0.2	44	8	5	12
S	+150N	10	0.4	46	14	5	12
S	+200N	6	0.4	42	10	5	6
S	+250N	4	0.2	40	6	5	6
S	BL-4 00+ 50E +300N	16	0.4	56	12	5	8
S	BL-4 00+100E + 50S	4	0.2	40	8	5	6
S	+ 00	6	0.4	44	6	5	12
S	+ 50N	16	0.6	54	12	5	12
S	+100N	8	0.2	36	12	5	16
S	+150N	8	0.2	40	12	5	16
S	+200N	16	0.4	54	10	5	56
S	BL-4 00+100E +250N	12	0.2	58	12	5	24
S	BL-4 00+150E +100S	12	0.2	56	8	5	18
S	+ 00	4	0.2	48	8	5	12
S	BL-4 00+150E + 50N	6	0.4	62	20	5	12

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CERTIFICATE OF ANALYSIS

TO : CHAPLEAU RESOURCES LTD.
2100 N. 4TH ST.
CRANBROOK, B.C.

PROJECT:
TYPE OF ANALYSIS: GEOCHEMICAL

CERTIFICATE#: 87435
INVOICE#: 7924
DATE ENTERED: 87-08-24
FILE NAME: CHP87435
PAGE # : 6

PRE FIX	SAMPLE NAME		PPM Cu	PPM Ag	PPM Zn	PPM Pb	PPB Au	PPM As
S	BL-4	00+150E +100N	12	0.4	50	14	5	64
S		+150N	30	0.4	44	20	5	106
S		+200N	14	0.2	40	14	5	30
S		+250N	6	0.2	68	16	5	12
S		+350N	8	0.2	50	14	5	24
S		+400N	14	0.2	36	10	5	8
S	BL-4	00+150E +450N	8	0.2	44	10	5	14
S	BL-4	00+200E + 50S	8	0.2	54	16	5	28
S		+ 50N	8	0.2	48	8	5	22
S		+100N	8	0.2	62	18	5	22
S		+150N	20	0.2	50	26	5	104
S		+200N	8	0.2	42	16	5	6
		+300N	6	0.2	68	14	5	8
	BL-4	00+200E +350N	8	0.2	80	14	5	8
S	BL-4	00+250E +150S	8	0.2	52	8	5	8
S		+100S	8	0.2	48	10	5	20
S		+ 50S	6	0.2	54	8	5	12
S		+ 00	6	0.2	60	12	5	14
S		+ 50N	8	0.2	38	8	5	36
S		+100N	18	0.2	46	8	50	26
S		+150N	20	0.2	46	20	5	134
S		+200N	8	0.2	38	14	5	24
S		+250N	6	0.2	66	8	5	16
S		+300N	6	0.2	86	26	5	24
S		+350N	6	0.2	38	34	5	18
S		+400N	6	0.2	46	6	5	14
S	BL-4	00+250E +450N	6	0.2	48	6	5	8
S	BL-4	00+00 +200S	14	0.2	54	8	5	16
S		+150S	12	0.2	44	8	5	16
S		+100S	8	0.2	40	6	5	6
S		+ 50S	8	0.2	42	8	5	8
S		+ 00	6	0.2	28	6	5	6
S		+ 50N	6	0.2	28	6	5	6
S		+100N	8	0.2	44	12	5	50
S		+150N	8	0.2	46	8	5	24
S	BL-4	00+00 +200N	20	0.2	48	16	5	50
S	BL-4	00+50W +150S	10	0.2	30	12	5	16
		+100S	10	0.2	40	8	5	6
	BL-4	00+50W + 50S	6	0.2	32	6	5	12

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2225 S. SPRINGER AVENUE
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TO : CHAPLEAU RESOURCES LTD.
2100 N. 4TH ST.
CRANBROOK, B.C.

PROJECT:
TYPE OF ANALYSIS: GEOCHEMICAL

CERTIFICATE#: 87435
INVOICE#: 7924
DATE ENTERED: 87-08-24
FILE NAME: CHP87435
PAGE # : 8

PRE FIX	SAMPLE NAME	PPM Cu	PPM Ag	PPM Zn	PPM Pb	PPB Au	PPM As
A	NWB 87-02 ✓	20	0.2	24	2	5	10

NWB 87

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TO : CHAPLEAU RESOURCES LTD.
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CRANBROOK, B.C.
PROJECT:
TYPE OF ANALYSIS: GEOCHEMICAL

CERTIFICATE#: 87435
INVOICE#: 7924
DATE ENTERED: 87-08-24
FILE NAME: CHP87435
PAGE # : 7

PRE FIX	SAMPLE NAME	PPM Cu	PPM Ag	PPM Zn	PPM Pb	PPB Au	PPM As
S	BL-4 00+50W + 00	10	0.2	36	12	5	2
S	+ 50N	6	0.2	40	10	5	8
S	+100N	14	0.2	54	16	5	10
S	BL-4 00+50W +150N	10	0.2	46	10	5	6
S	BL-4 00+100W +200S	20	0.2	48	10	5	10
S	Base Line 4 +150S	14	0.2	32	8	5	8
S	Wuhon Cr +100S	6	0.4	26	8	5	8
S	+ 50S	8	0.2	30	6	5	4
S	+ 00	22	0.4	18	4	5	8
S	BL-4 00+100W + 50N	8	0.2	38	10	5	2
S	BL-4 00+150E + 50S	6	0.2	38	10	5	8
S	BL-4 00+150E +300N	12	0.2	56	10	5	12
S	A 300+25E	22	0.2	48	12	5	6
S	B 300+25E	16	0.2	50	8	5	4
S	C 300+25E	6	0.2	30	4	5	4
S	D 300+25E	8	0.2	36	8	5	4
S	C-BL B1 2+ 500	10	0.2	48	4	5	6
S	C-BL 2 2+1150	8	0.2	54	6	5	8
S	C-BL 2 2+1250	18	0.2	58	8	5	12
S	C-BL 2 2+1350	18	0.2	62	12	5	10
S	C-BL 2 2+1400	14	0.2	54	10	5	12
S	C-BL 2 2+1500	10	0.2	38	4	5	2
S	C-BL 2 2+1600	12	0.2	60	8	5	6
S	C-BL 2 2+1650	10	0.2	42	8	5	2
S	C-BL 2 2+1700	14	0.2	46	8	5	4
S	C-BL B2 0+ 00	100	0.2	100	18	5	4
S	C-BL B2 0+ 50	54	0.2	66	6	5	16
A	37819	150	1.8	46	4	7800	44
A	37820	6	0.2	26	4	840	14
A	37821	6	0.2	14	2	60	22
A	37822	34	0.6	22	88	5	56
A	37823	8	1.4	30	118	30	22
A	N.BLK 37824	2	0.2	4	4	5	8
A	14526	4	0.2	6	6	5	16
A	+ NEG-B-01	18	0.2	12	22	10	124 → Negro Creek Quartz Stockwork
A	+ NEG-B-02	4	0.2	12	32	5	16
A	GMR-216	10	0.2	50	12	5	18
	WB 87-01	940	0.8	12	10	5	12
	SLDM 5	6000	0.6	10	2	50	6
A	W18-01	80	0.4	104	4	50	2240

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CERTIFICATE OF ANALYSIS

2225 S. SPRINGER AVENUE
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TO : CHAPLEAU RESOURCES LTD.
2100 N. 4TH ST.
CRANBROOK, B.C.

PROJECT:
TYPE OF ANALYSIS: GEOCHEMICAL

CERTIFICATE#: 87439
INVOICE#: 7923
DATE ENTERED: 87-08-21
FILE NAME: CHP87439
PAGE # : 1

PREFIX	SAMPLE NAME	PPM Cu	PPM Ag	PPM Pb	PPB Au	PPM As
S	BL-4 00+200E+100N	12	0.2	26	5	40
S	Base line 4 +200N	16	0.6	14	5	26
S	Wahun Creek. +250N	12	0.4	10	5	14
S	+400N	8	0.4	18	5	14
S	00+200E+450N	16	0.2	16	5	10
S	00+300E+200S	8	0.6	14	5	8
S	+150S	4	0.2	6	5	12
S	+100S	8	0.4	6	5	12
S	+ 50S	8	0.2	8	5	22
S	+ 00	6	0.2	10	5	10
S	+ 50N	8	0.2	14	5	16
S	+100N	22	0.2	20	5	32
S	+150N	8	0.2	4	5	12
S	+200N	8	0.4	10	5	22
S	+250N	8	0.6	10	5	26
S	+300N	26	0.2	14	5	12
S	+350N	8	0.4	16	5	16
S	+400N	10	0.2	30	5	20
S	00+300E+450N	18	0.2	4	5	8
S	00+350E+250S	8	0.2	8	5	14
S	+200S	6	0.2	6	5	6
S	+150S	4	0.2	4	5	4
S	+100S	4	0.2	6	5	12
S	+ 50S	6	0.2	6	5	6
S	+ 00	6	0.2	8	5	6
S	+ 50N	8	0.2	12	5	4
S	+100N	6	0.2	12	5	8
S	+150N	4	0.2	8	5	12
S	+200N	4	0.2	4	5	2
S	+250N	6	0.4	10	5	10
S	+300N	MISSING				
S	00+350E+350N	MISSING				
S	00+400E+150S	4	0.2	6	5	16
S	+100S	6	0.2	10	5	10
S	+ 50S	8	0.2	8	5	12
S	BL-4 00+400E+ 00	6	0.2	8	5	10
A	Base line 4 NEG 87-10 creek.	4	0.2	24	5	26
A	Wahun Cr NEG 87-20	4	0.2	18	5	14
	LDM9-SH wahun	4	0.2	4	5	20
	LDM9-SH DP wahun	6	0.2	2	5	22

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CERTIFICATE OF ANALYSIS

TO : CHAPLEAU RESOURCES LTD.
2100 N. 4TH ST.
CRANBROOK, B.C.
PROJECT:
TYPE OF ANALYSIS: GEOCHEMICAL

CERTIFICATE#: 87439
INVOICE#: 7923
DATE ENTERED: 87-08-21
FILE NAME: CHP87439
PAGE # : 2

PRE FIX	SAMPLE NAME	PPM Cu	PPM Ag	PPM Pb	PPB Au	PPM As
A	LDM9-200'AB DP Wuhun	4	0.2	2	5	16

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CERTIFICATE OF ANALYSIS

TO : CHAPLEAU RESOURCES INC.
2100 N. 4TH ST.
CRANBROOK, B.C.

PROJECT:
TYPE OF ANALYSIS: GEOCHEMICAL

CERTIFICATE#: 87497
INVOICE#: 70002
DATE ENTERED: 87-09-04
FILE NAME: CHP87497
PAGE # : 1

Base line 3 Liverpool Creek

PRE FIX	SAMPLE NAME	PPM Cu	PPM Ag	PPM Pb	PPB Au	PPM As
S	BL-3 00+150W+300S	10	0.2	12	5	12
S	+250S	10	0.2	4	5	18
S	+200S	18	0.2	4	5	26
S	+150S	8	0.2	8	5	8
S	+100S	6	0.2	8	5	10
S	+ 50S	12	0.2	10	5	10
S	+ 00	8	0.2	12	5	6
S	+ 50N	10	0.4	10	5	14
S	+100N	10	0.2	10	5	22
S	+150N	12	0.2	6	5	18
S	+200N	14	0.2	8	5	22
S	+250N	10	0.2	6	5	18
S	150W+300N	14	0.2	10	5	16
S	200W+300S	8	0.2	8	5	10
S	+250S	8	0.2	8	5	8
S	+200S	10	0.2	10	5	20
S	+150S	8	0.2	8	40	6
S	+100S	14	0.2	10	750	12
S	+ 50S	8	0.2	10	10	24
S	+ 00	6	0.2	12	5	20
S	+ 50N	10	0.4	6	5	26
S	+100N	20	0.2	10	5	32
S	+150N	14	0.2	8	5	22
S	+200N	10	0.2	6	5	26
S	+250N	20	0.2	10	5	44
S	200W+300N	14	0.2	6	5	20
S	250W+250S	8	0.2	6	100	10
S	+200S	10	0.2	8	5	14
S	+150S	10	0.2	6	5	8
S	+100S	16	0.2	10	5	16
S	+ 50S	10	0.2	4	5	12
S	+ 00	6	0.2	2	5	14
S	+ 50N	6	0.2	8	5	22
S	+100N	34	0.2	6	5	20
S	+150N	20	0.2	12	5	36
S	+200N	10	0.2	4	210	14
S	+250N	10	0.2	4	40	20
S	250W+300N	12	0.2	4	5	20
S	BL-3 00+ 50E+ 00	8	0.2	6	5	16

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CERTIFICATE OF ANALYSIS

TO : CHAPLEAU RESOURCES INC.
2100 N. 4TH ST.
CRANBROOK, B.C.

PROJECT:
TYPE OF ANALYSIS: GEOCHEMICAL

CERTIFICATE#: 87497
INVOICE#: 70002
DATE ENTERED: 87-09-04
FILE NAME: CHP87497
PAGE # : 2

Base Line 3
Liverpool Creek

PRE FIX	SAMPLE NAME	PPM Cu	PPM Ag	PPM Pb	PPB Au	PPM As
S	BL-3 00+ 50E+ 50N	10	0.2	4	5	16
S	+100N	14	0.2	4	5	20
S	+150N	38	0.4	18	5	36
S	+200N	12	0.4	8	5	14
S	+250N	4	0.2	2	5	2
S	50E+300N	6	0.4	8	5	2
S	100E+ 00	8	0.2	8	5	8
S	+ 50N	12	0.2	8	5	8
S	+100N	22	0.2	6	5	14
S	+150N	30	0.2	10	5	34
S	+200N	18	0.2	12	5	14
S	+250N	6	0.2	4	50	2
S	100E+300N	12	0.2	8	5	16
S	150E+ 00	8	0.2	2	5	8
S	+ 50N	8	0.2	4	5	8
S	+100N	14	0.2	4	130	14
S	+150N	26	0.2	6	5	20
S	+200N	6	0.2	6	5	2
S	+250N	2	0.2	2	5	4
S	+300N	6	0.2	8	5	6
S	200E+ 00	14	0.2	4	5	20
S	+ 50N	22	0.2	4	5	30
S	+100N	10	0.2	4	5	12
S	+150N	4	0.2	2	5	6
S	+200N	8	0.2	6	5	20
S	+250N	4	0.2	2	410	8
S	200E+300N	4	0.2	2	5	8
S	250E+ 00	14	0.2	2	5	10
S	+ 50N	12	0.2	4	5	12
S	+100N	16	0.2	4	5	10
S	+150N	4	0.2	2	5	8
S	+200N	4	0.2	2	5	2
S	+250N	6	0.2	4	5	2
S	+300N	6	0.2	6	2	8
S	250E+350N	8	0.2	2	170	10
S	300E+150N	4	0.2	2	5	6
S	+200N	10	0.4	4	5	6
S	+250N	6	0.2	4	240	4
S	BL-3 00+300E+300N	8	0.2	4	10	12

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BURNABY, B.C. V5B 3N1
TEL : (604) 299 - 6910

CERTIFICATE OF ANALYSIS

TO : CHAPLEAU RESOURCES INC.
2100 N. 4TH ST.
CRANBROOK, B.C.

PROJECT:
TYPE OF ANALYSIS: GEOCHEMICAL

CERTIFICATE#: 87497
INVOICE#: 70002
DATE ENTERED: 87-09-04
FILE NAME: CHP87497
PAGE # : 3

PRE FIX	SAMPLE NAME	PPM Cu	PPM Ag	PPM Pb	PPB Au	PPM As
S	BL-3 00+300E+350N	8	0.4	2	5	14
S	BL-5 00+500S+ 50E	10	0.2	10	5	8
S	+ 00	10	0.2	8	5	20
S	+ 50W	6	0.2	6	5	8
S	+100W	8	0.2	6	5	18
S	+150W	8	0.2	8	5	6
S	500S+200W	10	0.2	10	60	12
S	550S+ 50E	8	0.2	6	5	12
S	+ 00-A	6	0.4	6	5	20
S	+ 00-B	14	0.4	8	5	16
S	+ 50W	10	0.4	8	5	12
S	+100W	10	0.2	10	5	18
S	+150W	8	0.2	6	5	20
S	550S+200W	8	0.2	14	5	12
S	600S+100E	8	0.2	4	5	6
S	+ 50E	10	0.2	8	5	8
S	+ 00	8	0.2	8	5	2
S	+ 50W	6	0.2	4	10	12
S	600S+100W	6	0.4	6	5	14
S	650S+100E	6	0.2	6	5	14
S	+ 50E	12	0.2	8	5	20
S	+ 00	10	0.2	8	5	24
S	+ 50W	6	0.2	2	5	22
S	650S+100W	4	0.2	4	5	18
S	700S+100E	8	0.2	8	5	16
S	+ 50E	6	0.2	6	5	12
S	+ 00	10	0.2	6	5	4
S	+ 50W	10	0.2	6	5	8
S	700S+100W	8	0.2	6	5	10
S	750S+100E	6	0.2	4	5	12
S	+ 60E	6	0.4	4	5	8
S	+ 00	6	0.2	4	5	12
S	+ 50W	10	0.2	6	5	18
S	BL-5 00+750S+100W	8	0.2	6	5	18
A	L 87-100	10	0.2	44	20	4
A	L 87-101	8	0.4	56	100	30
A	1350-75W	1840	0.6	34	5	4
A	F-L25R	262	0.8	34	5	8

Base Line 5 London Creek

Rock chip ?

CERTIFIED BY : J. Rossbacher

(2) a

ROSSBACHER LABORATORY LTD.

2225 S. SPRINGER AVENUE
BURNABY, B.C. V5B 3N1
TEL : (604) 299 - 6910

CERTIFICATE OF ANALYSIS

TO : CHIBOUGAMAU RESOURCES INC.
1100 N. 4TH ST.
CRANBROOK, B.C.

PROJECT:

TYPE OF ANALYSIS: GEOCHEMICAL

CERTIFICATE#: 87513
INVOICE#: 70022
DATE ENTERED: 87-09-08
FILE NAME: CHP87513
PAGE # : 1

PRE FIX	SAMPLE NAME	PPM Cu	PPM Ag	PPM Pb	PPB Au	PPM As
S	BL 3N, 0+050N 300W	10	0.2	12	280	20
S	100	10	0.2	18	5	10
S	Base line 3 Liverpool Creek 150	24	0.2	10	5	12
S	200	16	0.2	4	5	6
S	250	6	0.2	2	40	2
S	BL 3N 0+300	12	0.2	2	5	10
S	BL 300W 0+000S	4	0.2	2	110	2
S	050S	6	0.2	6	90	2
S	100S	2	0.2	2	20	2
S	150S	8	0.2	8	5	2
S	200S	10	0.2	6	5	2
S	250S	6	0.2	6	5	2
S	BL 300W 0+300S	24	0.2	10	5	12
S	BL 350W 0+300N	14	0.2	6	5	2
S	250N	12	0.2	20	5	6
S	200N	10	0.2	6	5	14
S	150N	20	0.2	14	80	34
S	100N	16	0.2	8	5	12
S	050N	10	0.2	8	10	20
S	000	4	0.2	2	5	6
S	100S	14	0.2	8	5	14
S	150S	8	0.2	10	5	12
S	200S	8	0.2	12	90	12
S	250S	20	0.2	10	5	10
S	BL 350W 0+300S	48	0.2	10	5	6
S	BL 400W 0+300N	14	0.2	8	5	2
S	Base line 3 Liverpool Creek 250N	14	0.2	8	5	16
S	200N	18	0.2	16	5	20
S	150N	14	0.2	12	5	8
S	100N	36	0.2	14	5	12
S	BL 400W 0+050N	8	0.2	14	5	4
S	BL3 400E+000	8	0.2	8	5	4
S	050S	6	0.2	14	5	6
S	100S	14	0.2	10	5	10
S	150S	22	0.2	10	5	2
S	200S	6	0.2	10	540	4
S	250S	10	0.2	8	10	2
S	BL3 400W+300S	18	0.2	10	10	2
S	BL3 450W+300N	12	0.2	16	5	4
S	BL3 450E+250N	12	0.2	12	5	6

CERTIFIED BY : J. Rossbach

ROSSBACHER LABORATORY LTD.

2225 S. SPRINGER AVENUE
BURNABY, B.C. V5E 3N1
TEL : (604) 299 - 6910

CERTIFICATE OF ANALYSIS

TO : [illegible] RESOURCES INC.
[illegible] N. 4TH ST.
CRANBROOK , B.C.

PROJECT:
TYPE OF ANALYSIS: GEOCHEMICAL

CERTIFICATE#: 87513
INVOICE#: 70022
DATE ENTERED: 87-09-08
FILE NAME: CHF87513
PAGE # : 2

PRE FIX	SAMPLE NAME	PPM Cu	PPM Ag	PPM Pb	PPB Au	PPM As
S	BL3 450W+200N	18	0.2	16	5	20
S	150N	12	0.2	6	5	10
S	100N	14	0.2	10	5	6
S	50N	14	0.2	4	5	10
S	00	12	0.2	4	5	6
S	50S	8	0.2	6	5	8
S	100S	4	0.2	8	5	2
S	150S	12	0.2	6	5	12
S	250S	24	0.2	10	5	14
S	BL3 450W+300S	10	0.2	4	5	2
S	BL3 500W+300N	14	0.2	8	5	10
S	Baseline 3 250N	8	0.2	4	5	4
S	Liverpool Creek 200N	8	0.2	10	5	2
S	150N	10	0.2	6	5	12
S	100N	10	0.2	10	5	28
S	50N	8	0.2	6	5	2
S	00	10	0.2	8	5	10
S	50S	8	0.2	4	5	10
S	100S	6	0.2	6	5	4
S	150S	8	0.2	6	20	10
S	200S	18	0.2	4	5	6
S	250S	10	0.2	8	5	6
S	BL3 500W+300S	12	0.2	12	5	8
S	BL3 550W+300N	8	0.2	4	5	2
S	250N	8	0.2	6	5	4
S	200N	12	0.2	2	5	10
S	150N	8	0.2	6	5	8
S	100N	12	0.2	6	5	10
S	50N	10	0.2	6	30	14
S	00	6	0.2	4	5	12
S	50S	4	0.2	2	5	2
S	100S	14	0.2	24	5	2
S	150S	6	0.2	6	5	2
S	200S	12	0.2	4	5	2
S	250S	10	0.2	4	20	2
S	BL3 550W+300S	32	0.4	12	5	12
S	BL3 600W+300N	8	0.2	6	5	4
S	250N	8	0.2	4	5	4
S	BL3 600W+200N	12	0.2	6	5	4

CERTIFIED BY : J. Rossbach

c

ROSSBACHER LABORATORY LTD.

2225 S. SPRINGER AVENUE
BURNABY, B.C. V5B 3N1
TEL : (604) 299 - 6910

CERTIFICATE OF ANALYSIS

TO : CHATEAU RESOURCES INC.
2100 N. 4TH ST.
CRANBROOK , B.C.

PROJECT:
TYPE OF ANALYSIS: GEOCHEMICAL

CERTIFICATE#: 87513
INVOICE#: 70022
DATE ENTERED: 87-09-08
FILE NAME: CHR87513
PAGE # : 3

PRE FIX	SAMPLE NAME	PPM Cu	PPM Ag	PPM Pb	PPB Au	PPM As
S	BL3 600W+150N	8	0.2	24	5	2
S	100N	12	0.2	6	5	2
S	50N	6	0.2	4	5	6
S	00	8	0.2	4	5	4
S	50S	4	0.2	4	5	2
S	100S	6	0.4	28	5	8
S	150S	18	0.2	10	5	8
S	200S	6	0.2	8	5	2
S	250S	10	0.2	6	5	2
S	BL3 600W+300S	30	0.2	10	5	2
S	BL3 650W+300N	8	0.2	20	5	10
S	250N	12	0.2	12	5	6
S	200N	10	0.4	6	5	4
S	150N	16	0.4	8	5	12
S	100N	8	0.2	6	20	6
S	50N	6	0.2	6	5	10
S	00	10	0.4	10	50	10
S	50S	10	0.2	6	5	4
S	100S	6	0.2	10	5	2
S	150S	4	0.2	10	5	6
S	200S	6	0.2	8	5	8
S	250S	4	0.2	4	5	4
S	BL3 650W+300S	24	0.2	28	5	20
S	BL3 700W+300N	12	0.2	18	5	22
S	250N	10	0.2	16	5	20
S	200N	8	0.2	2	5	14
S	150N	8	0.2	4	5	6
S	100N	8	0.2	4	5	16
S	50N	8	0.2	4	5	14
S	00	10	0.2	10	5	10
S	50S	8	0.2	12	5	8
S	100S	8	0.2	12	60	8
S	150S	6	0.2	8	5	4
S	200S	20	0.4	22	5	18
S	250S	12	0.4	10	5	14
S	BL3 700W+300S	16	0.2	16	5	16
S	BL3 750W+300N	12	0.2	6	5	12
S	250N	12	0.2	8	5	16
S	BL3 750W+200N	12	0.2	4	5	14

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d

ROSSBACHER LABORATORY LTD.

2225 S. SPRINGER AVENUE
BURNABY, B.C. V5B 3N1
TEL : (604) 299 - 6910

CERTIFICATE OF ANALYSIS

TO : CHARLEAU RESOURCES INC.
2100 N. 4TH ST.
CRANBROOK , B.C.
PROJECT:
TYPE OF ANALYSIS: GEOCHEMICAL

CERTIFICATE#: 87513
INVOICE#: 70022
DATE ENTERED: 87-09-08
FILE NAME: CHP87513
PAGE # : 4

PRE FIX	SAMPLE NAME	PPM Cu	PPM Ag	PPM Pb	PPB Au	PPM As
S	BL3 750W+150N	12	0.2	30	5	24
S	100N	10	0.2	8	30	44
S	50N	6	0.2	6	5	14
S	00	10	0.4	10	5	22
S	50S	8	0.2	10	5	10
S	100S	8	0.2	4	5	6
S	150S	12	0.2	12	5	10
S	200S	8	0.2	4	300	2
S	250S	6	0.2	4	5	2
S	BL3 750W+300S	14	0.2	4	5	4
S	BL3 800W+300N	10	0.2	4	1040	2
S	Base line 3 250N	10	0.2	6	5	8
S	200N	8	0.2	2	5	6
S	Liverpool Creek 150N	10	0.2	4	5	16
	100N	12	0.2	4	5	10
S	50N	10	0.4	6	5	10
S	00	8	0.2	4	5	2
S	50S	6	0.2	4	5	6
S	100S	6	0.2	2	5	8
S	150S	8	0.2	12	5	12
S	200S	16	0.4	6	5	14
S	250S	4	0.2	6	5	10
S	BL3 800W+300S	8	0.2	8	5	16
S	BL3 850W+300N	6	0.2	4	5	8
S	250N	10	0.2	2	5	10
S	200N	10	0.2	2	5	16
S	150N	18	0.2	8	30	140
S	100N	10	0.2	2	5	8
S	50N	8	0.2	4	5	10
S	00	12	0.2	6	5	14
S	50S	8	0.2	6	5	10
S	100S	12	0.2	8	5	18
S	150S	8	0.2	6	5	12
S	200S	8	0.2	2	5	6
S	250S	16	0.4	30	5	12
S	BL3 850W+300S	8	0.4	6	5	20
S	BL3 900W+300N	16	0.2	2	5	10
S	250N	66	0.2	4	5	30
S	BL3 900W+200N	48	0.2	2	5	48

CERTIFIED BY : J. Rossbach

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ROSSBACHER LABORATORY LTD.

2225 S. SPRINGER AVENUE
BURNABY, B.C. V5B 3N1
TEL : (604) 299 - 6910

CERTIFICATE OF ANALYSIS

TO : CHAPLEAU RESOURCES INC.
2100 N. 4TH ST.
CRANBROOK , B.C.

PROJECT:
TYPE OF ANALYSIS: GEOCHEMICAL

CERTIFICATE#: 87513
INVOICE#: 70022
DATE ENTERED: 87-09-08
FILE NAME: CHP87513
PAGE # : 5

PRE FIX	SAMPLE NAME	PPM Cu	PPM Ag	PPM Pb	PPB Au	PPM As
S	BL3 900W+150N	12	0.2	2	5	14
S	100N	26	0.2	2	5	12
S	50N	14	0.2	2	5	14
S	00	6	0.2	2	5	10
S	50S	8	0.2	4	5	12
S	100S	12	0.2	4	5	10
S	150S	8	0.2	6	5	12
S	200S	12	0.2	10	5	28
S	BL3 900W+250S	6	0.2	10	40	5
S	BL3 950W+300N	6	0.2	4	5	6
S	250N	6	0.2	4	5	4
S	200N	6	0.2	8	5	8
S	150N	4	0.2	2	50	2
S	100N	4	0.2	4	5	2
S	50N	10	0.2	2	5	6
S	00	6	0.2	2	5	14
S	50S	6	0.2	4	5	4
S	100S	10	0.2	6	80	10
S	150S	8	0.2	4	5	12
S	BL3 950W+200S	6	0.2	8	5	8
S	BL3 1000W+300N	6	0.2	8	5	10
S	250N	6	0.2	4	5	4
S	200N	8	0.2	6	5	6
S	150N	6	0.2	2	5	2
S	100N	10	0.2	4	5	12
S	50N	10	0.2	8	5	10
S	00	10	0.2	4	5	8
S	50S	8	0.2	2	5	10
S	100S	10	0.2	2	5	8
S	150S	10	0.2	4	5	12
S	BL3 1000W+200S	10	0.2	10	5	32
S	BL3 1050W+300N	10	0.2	4	5	6
S	250N	6	0.2	2	10	8
S	200N	4	0.2	4	5	6
S	150N	6	0.2	2	5	2
S	100N	4	0.2	2	5	8
S	50N	4	0.2	2	5	6
S	00	8	0.2	2	5	48
S	BL3 1050W+100S	6	0.2	2	5	4

CERTIFIED BY : J. Rossbach

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ROSSBACHER LABORATORY LTD.

2225 S. SPRINGER AVENUE
BURNABY, B.C. V5B 3N1
TEL : (604) 299 - 6910

CERTIFICATE OF ANALYSIS

TO : CHAPLEAU RESOURCES INC.
2100 N. 4TH ST.
CRANBROOK, B.C.

PROJECT:
TYPE OF ANALYSIS: GEOCHEMICAL

CERTIFICATE#: 875[illegible]
INVOICE#: 7002[illegible]
DATE ENTERED: 87-09-08
FILE NAME: CHP875[illegible]
PAGE # : 6

PRE FIX	SAMPLE NAME	PPM Cu	PPM Ag	PPM Pb	PPB Au	PPM As
S	BL3 1050W+100S	6	0.2	4	5	12
S	BL3 1050W+150S	26	0.2	258	5	14
S	BL3 1100W+300N	8	0.2	8	5	10
S	250N	8	0.2	4	5	8
S	200N	10	0.2	4	30	2
S	150N	6	0.2	2	5	4
S	100N	4	0.2	2	5	2
S	50N	8	0.2	2	5	2
S	00	10	0.2	2	5	4
S	50S	18	0.2	2	5	14
S	BL3 1100W+150S	10	0.2	8	5	10
S	BL3 550W+200S-B	8	0.2	10	5	14
S	BL3 1000W+100S-B	10	0.2	8	350	12

CERTIFIED BY : J. Rossbacher

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ROSSBACHER LABORATORY LTD.

2225 S. SPRINGER AVENUE
BURNABY, B.C. V5B 3N1
TEL : (604) 299 - 6910

CERTIFICATE OF ANALYSIS

TO : CHAPLEAU RESOURCES INC.
2100 N. 4TH ST.
CRANBROOK, B.C.

PROJECT:
TYPE OF ANALYSIS: GEOCHEMICAL

CERTIFICATE#: 87327.A
INVOICE#: 7784
DATE ENTERED: 87-07-22
FILE NAME: CHA87327.A
PAGE # : 1

PRE FIX	SAMPLE NAME	PPM Cu	PPM Ag	PPM Zn	PPB Au	PPM As
A	HM 37808	298	0.4	36	400	62
A	Rock 37809	4	0.2	6	5	2
A	HM 37810	4	0.8	78	50	2
A	Price 37811	94	1.0	3720	4020	38
A	Price 37812	50	524.0	>10000	11800	2

CERTIFIED BY : J. Rossbacher

(10)a

ROSSBACHER LABORATORY LTD.

2225 S. SPRINGER AVENUE
BURNABY, B.C. V5B 3N1
TEL : (604) 299 - 6910

CERTIFICATE OF ANALYSIS

TO : CHAPLEAU RESOURCES LTD.
2100 N. 4TH ST.
CRANBROOK , B.C.

PROJECT:
TYPE OF ANALYSIS: GEOCHEMICAL

CERTIFICATE#: 87475
INVOICE#: 7959
DATE ENTERED: 87-08-27
FILE NAME: CHP87475
PAGE # : 1

PRE FIX	SAMPLE NAME	PPM Cu	PPM Ag	PPM Pb	PPB Au	PPM As
S	BL-1 00+250S+ 15E	10	0.2	30	5	4
S	00+250S+ 15W	8	0.2	30	5	6
S	Baseline 1 Shorty Cr 00+265S+ 30E	10	0.2	28	140	2
S	+ 15E	8	0.2	36	20	4
S	+ 00	10	0.2	24	20	6
S	00+265S+ 15W	6	0.2	34	5	8
S	00+280S+ 30E	22	0.2	36	5	10
S	+ 15E	16	0.2	24	30	8
S	+ 00	8	0.2	18	5	2
S	00+280S+ 15W	8	0.4	46	5	2
S	00+300S+ 15E	8	0.2	16	30	8
S	BL-1 00+300S+ 15W	16	0.2	30	5	8
	BL-2 00+135N+178W	10	0.4	14	5	4
	+193W	6	0.2	14	20	4
S	Base Line 2 Limerock Cr 00+135N+205W	8	0.4	14	160	6
S	00+150N+175W	4	0.2	12	5	10
S	00+150N+208W	6	0.2	10	30	8
S	00+165N+178W	2	0.2	6	10	6
S	193W	6	0.2	4	5	8
S	00+165N+208W	8	0.2	10	20	4
S	00+285N+115E	16	0.2	10	5	6
S	+100E	8	0.2	8	5	8
S	00+285N+ 85E	4	0.2	4	5	2
S	00+300N+115E	6	0.2	8	5	2
S	00+300N+ 85E	2	0.2	6	5	2
S	00+315N+115E	6	0.2	6	5	4
S	+100E	4	0.2	4	5	2
S	00+315N+ 85E	12	0.2	6	5	6
S	00+585N+ 65E	10	0.2	10	5	10
S	+ 50E	8	0.2	12	5	[illegible]
S	00+585N+ 35E	8	0.2	8	5	8
S	00+600N+ 65E	6	0.2	10	5	[illegible]
S	00+600N+ 35E	6	0.2	8	10	[illegible]
S	00+615N+ 65E	12	0.2	8	5	8
S	+ 50E	8	0.2	8	5	6
S	00+615N+ 35E	4	0.2	6	5	[illegible]
S	00+635N+170W	6	0.2	10	5	[illegible]
	+185W	8	0.2	12	10	[illegible]
	BL-2 00+635N+200W	8	0.2	16	30	[illegible]

CERTIFIED BY : J. Rossbach

ROSSBACHER LABORATORY LTD.

2225 S. SPRINGER AVENUE
BURNABY, B.C. V5B 3N1
TEL : (604) 299 - 6910

CERTIFICATE OF ANALYSIS

TO : CHAPLEAU RESOURCES LTD.
2100 N. 4TH ST.
CRANBROOK, B.C.

PROJECT:
TYPE OF ANALYSIS: GEOCHEMICAL

CERTIFICATE#: 87475
INVOICE#: 7959
DATE ENTERED: 87-08-27
FILE NAME: CHP87475
PAGE # : 2

Baseline 2 Shamrock Cr

PRE FIX	SAMPLE NAME	PPM Cu	PPM Ag	PPM Pb	PPB Au	PPM As
S	BL-2 00+650N+170W	6	0.2	16	20	16
S	00+650N+200W	14	0.2	16	10	8
S	00+665N+170W	6	0.2	14	10	14
S	+185W	8	0.2	12	100	8
S	00+665N+200W	8	0.2	18	5	10
S	00+935N+140W	18	0.2	10	10	6
S	+150W	10	0.2	8	10	8
S	00+935N+165W	18	0.2	6	10	10
S	00+950N+135W	16	0.2	4	5	8
S	00+950N+165W	14	0.2	8	5	6
S	00+965N+135W	8	0.2	4	70	2
S	+150W	14	0.2	6	5	4
S	00+965N+165W	14	0.2	18	5	20
S	01+1035N+ 00	12	0.2	12	5	2
S	+ 15W	6	0.2	6	5	2
S	01+1035N+ 30W	12	0.2	14	20	4
S	01+1050N+ 15E	10	0.2	12	5	6
S	+ 15W	26	0.2	12	5	10
S	01+1050N+ 30W	16	0.2	10	5	2
S	01+1065N+ 15E	8	0.2	16	50	4
S	+ 00	14	0.2	10	180	2
S	+ 15W	24	0.2	10	5	8
S	BL-2 01+1065N+ 30W	16	0.2	14	5	4

CERTIFIED BY : J. Rossbach

(11)

11 a

OSSBACHER LABORATORY LTD.

2225 S. SPRINGER AVENUE
BURNABY, B.C. V5B 3N1
TEL : (604) 299 - 6910

CERTIFICATE OF ANALYSIS

TO : CHAT RESOURCES INC.
210 N. 4TH ST.
CRESTBROOK, B.C.

PROJECT:
TYPE OF ANALYSIS: GEOCHEMICAL

CERTIFICATE#: 87462
INVOICE#: 7952
DATE ENTERED: 87-08-28
FILE NAME: CHR87462
PAGE # : 6

Base Line 4
Wahoo Creek

PRE FIX	SAMPLE NAME	PPM Cu	PPM Ag	PPM Pb	PPB Au	PPM As
S	BL-4 00+900E+100S	6	0.2	4	5	4
S	+150S	4	0.2	2	5	6
S	+200S	8	0.2	8	5	2
S	+250S	8	0.2	6	5	4
S	+300S	4	0.2	4	5	2
S	+350S	4	0.2	4	5	8
S	+400S	4	0.2	4	10	10
S	+450S	4	0.2	2	5	4
S	00+950E+150N	4	0.2	2	5	6
S	+100N	8	0.2	4	5	2
S	+ 50N	4	0.2	4	5	8
S	+ 00	6	0.2	4	5	8
S	+ 50S	2	0.2	4	5	2
S	+100S	6	0.2	6	5	4
S	+150S	2	0.2	4	5	2
S	+200S	8	0.2	6	5	2
S	+250S	4	0.2	4	5	2
S	+300S	4	0.2	4	5	2
S	+350S	2	0.2	4	5	2
S	+400S	4	0.2	6	5	2
S	BL-4 00+950E+450S	2	0.2	4	5	2
A	SH87- 1	402	10.2	6400	5	2
A	P87-211	6	1.8	900	5	6
A	P87- B2	46	0.4	262	5	24
A	P87- B4	4	0.2	74	5	2
A	P87-B21	20	4.2	1130	5	2

CERTIFIED BY : J. Ossbacher

OSSBACHER LABORATORY LTD.

2225 S. SPRINGER AVENUE
BURNABY, B.C. V5B 3N1
TEL : (604) 299 - 6910

CERTIFICATE OF ANALYSIS

TO : CHAPLEAU RESOURCES INC.
2100 N. 4TH ST.
CRANBROOK . B.C.

PROJECT:
TYPE OF ANALYSIS: GEOCHEMICAL

CERTIFICATE#: 87462
INVOICE#: 7962
DATE ENTERED: 87-08-28
FILE NAME: CHR87462
PAGE # : 5

PRE FIX	SAMPLE NAME	PPM Cu	PPM Ag	PPM Pb	PPB Au	PPM As
S	BL-4 00+750E+ 00	8	0.2	2	5	2
S	+ 50S	4	0.2	2	5	2
S	+100S	4	0.2	2	5	4
S	+150S	4	0.2	2	5	2
S	+200S	4	0.2	2	5	2
S	+250S	4	0.2	4	5	6
S	+300S	2	0.2	2	5	2
S	+350S	4	0.2	2	5	2
S	+400S	4	0.2	2	5	4
S	00+800E+150N	4	0.2	2	5	4
S	+100N	4	0.4	4	5	8
S	+ 50N	2	0.4	2	5	2
S	+ 00	4	0.2	2	5	2
S	+ 50S	4	0.2	2	5	2
S	+100S	6	0.2	6	5	10
S	+150S	4	0.2	2	5	8
S	+200S	4	0.2	2	5	8
S	+250S	2	0.2	4	5	4
S	+300S	4	0.2	4	5	2
S	+350S	2	0.2	2	5	2
S	+400S	2	0.2	2	5	4
S	00+850E+150N	6	0.2	2	5	12
S	+100N	4	0.2	2	10	6
S	+ 50N	4	0.2	4	10	2
S	+ 00	4	0.2	4	5	8
S	+ 50S	2	0.2	2	5	2
S	+100S	2	0.2	2	5	8
S	+150S	2	0.2	2	5	4
S	+200S	2	0.2	2	5	4
S	+250S	2	0.2	2	5	4
S	+300S	4	0.6	2	5	4
S	+350S	2	0.2	2	5	2
S	+400S	4	0.2	2	5	4
S	+450S	2	0.4	2	5	2
S	00+850E+150N	4	0.2	2	5	2
S	+100N	4	0.2	2	5	8
S	+ 50N	4	0.6	2	5	8
S	+ 00N	2	0.4	2	5	2
S	BL-4 00+850E+ 50S	2	0.2	2	5	2

Baseline 4 Wuhun Creek

CERTIFIED BY : J. Ossbach

c

OSSBACHER LABORATORY LTD.

2225 S. SPRINGER AVENUE
BURNABY, B.C. V5B 3N1
TEL : 604) 299 - 6910

CERTIFICATE OF ANALYSIS

TO : CHATEAU RESOURCES LTD.
2100 N. 4TH ST.
CRANBROOK, B.C.

PROJECT:
TYPE OF ANALYSIS: GEOCHEMICAL

CERTIFICATE#: 87462
INVOICE#: 7962
DATE ENTERED: 87-08-28
FILE NAME: CHR87462
PAGE # : 4

Base line 4 Wahoo Creek

PRE FIX	SAMPLE NAME	PPM Cu	PPM Ag	PPM Pb	PPB Au	PPM As
S	BL-4 00+600+150N	4	0.2	10	5	4
S	+100N	16	0.2	14	5	6
S	+ 50N	4	0.2	6	5	2
S	+ 00	6	0.2	6	5	6
S	+ 50S	26	0.2	8	5	8
S	+100S	4	0.2	4	5	2
S	+150S	6	0.2	6	5	10
S	+200S	4	0.2	6	5	4
S	+250S	4	0.2	6	5	4
S	+300S-A	4	0.2	4	5	2
S	+300S-B	4	0.2	6	5	2
S	+350S	2	0.2	10	5	2
S	00+650E+200N	2	0.2	8	5	4
S	+150N	2	0.2	8	5	8
S	+100N	6	0.2	4	5	4
S	+ 50N	4	0.2	8	5	4
S	+ 00	4	0.2	8	20	4
S	+ 50S	4	0.2	10	5	2
S	+100S	6	0.2	6	5	10
S	+150S	6	0.2	8	5	6
S	+200S	6	0.2	50	5	6
S	+250S	4	0.2	8	5	2
S	+300S	2	0.2	6	5	2
S	+350S	4	0.2	6	5	10
S	00+700E+200N	4	0.2	8	5	2
S	+150N	4	0.2	6	5	2
S	+100N	2	0.2	6	5	2
S	+ 50N	4	0.2	4	5	4
S	+ 00	6	0.2	4	5	2
S	+ 50S	4	0.2	10	5	6
S	+100S	6	0.2	8	5	6
S	+150S	4	0.2	10	5	4
S	+200S	4	0.2	8	5	2
S	+250S	2	0.2	10	10	2
S	+300S	4	0.2	6	5	4
S	+350S	6	0.2	8	5	8
S	00+750E+150N	2	0.2	8	5	12
S	+100N	6	0.2	6	5	6
S	BL-4 00+750E+50N	4	0.2	6	5	2

CERTIFIED BY : R. Ossbach

d

OSSBACHER LABORATORY LTD.

2225 S. SPRINGER AVENUE
BURNABY, B.C. V5B 3N1
TEL : (604) 299 - 6910

CERTIFICATE OF ANALYSIS

TO : CHAPLEAU RESOURCES INC.
2100 N. 4TH ST.
CRANBROOK, B.C.

PROJECT:
TYPE OF ANALYSIS: GEOCHEMICAL

CERTIFICATE#: 87462
INVOICE#: 7962
DATE ENTERED: 87-08-28
FILE NAME: CHR87462
PAGE # : 3

PRE FIX	SAMPLE NAME	PPM Cu	PPM Ag	PPM Pb	PPB Au	PPM As
S	BL-4 00+400E+150N	6	0.2	8	5	10
S	+100N	8	0.2	12	5	10
S	+ 50N	12	0.2	14	5	8
S	+200S	6	0.2	8	5	10
S	+250S	8	0.2	4	5	6
S	00+450E+200N	6	0.4	10	5	8
S	+150N	6	0.2	10	5	2
S	Baseline 4 +100N	12	0.2	12	5	10
S	+ 50N	20	0.2	20	5	6
S	Wuhun Creek + 00-A	16	0.2	14	5	2
S	+ 00-B	16	0.2	28	5	6
S	+ 50S	10	0.2	12	5	10
S	+100S	4	0.2	10	5	4
S	+150S	6	0.4	12	5	6
S	+200S	4	0.2	10	5	6
S	+250S	2	0.2	6	5	2
S	00+500E+200N	4	0.2	4	5	2
S	+150N	6	0.2	10	5	6
S	+100N	6	0.2	8	5	8
S	+ 50N	6	0.2	10	5	8
S	+ 00	12	0.2	10	5	8
S	+ 50S	6	0.2	8	10	8
S	+100S	6	0.2	12	5	6
S	+150S	6	0.2	10	5	8
S	+200S	4	0.2	8	5	6
S	+250S	6	0.2	8	5	6
S	+300S	6	0.2	6	5	4
S	00+550E+200N	6	0.2	6	5	6
S	+150N	6	0.2	8	5	4
S	+100N	6	0.2	6	5	2
S	+ 50N	8	0.2	10	5	10
S	+ 00	12	0.2	10	5	4
S	+ 50S	12	0.2	10	5	4
S	+100S	6	0.2	4	5	6
S	+150S	6	0.2	4	5	2
S	+200S	4	0.2	6	5	4
S	+250S	6	0.2	8	5	4
S	+300S	2	0.2	4	5	2
S	BL-4 00+600E+200N	8	0.2	8	5	10

CERTIFIED BY : J. Ossbach

e

OSSBACHER LABORATORY LTD.

2225 S. SPRINGER AVENUE
BURNABY, B.C. V5B 3N1
TEL : (604) 299 - 6514

CERTIFICATE OF ANALYSIS

TO : CHAPLEAU RESOURCES LTD.
2100 N. 4 TH ST.
CRANBROOK, B.C.

PROJECT:
TYPE OF ANALYSIS: GEOCHEMICAL

CERTIFICATE#: 87462
INVOICE#: 7962
DATE ENTERED: 87-08-28
FILE NAME: CHR87462
PAGE # : 2

PRE FIX	SAMPLE NAME	PPM Cu	PPM Ag	PPM Pb	PPB Au	PPM As
S	BL-3 00+300E+100N	6	0.2	10	5	4
S	+ 50N	16	0.2	12	30	8
S	+ 00	16	0.2	12	5	10
S	+ 50S	6	0.2	10	10	[illegible]
S	+100S	8	0.2	8	5	4
S	+150S	4	0.2	4	5	4
S	+200S	6	0.2	8	5	[illegible]
S	+250S	6	0.2	8	5	[illegible]
S	+300S	12	0.2	8	5	[illegible]
S	00+350E+350N	6	0.2	6	5	[illegible]
S	+300N	8	0.2	8	5	[illegible]
S	+250N	6	0.2	12	5	[illegible]
S	+200N	4	0.2	10	5	[illegible]
S	+150N	8	0.2	6	5	[illegible]
S	+100N	2	0.2	2	5	[illegible]
S	+ 50N	2	0.2	8	5	[illegible]
S	+ 00	10	0.2	8	5	[illegible]
S	+ 50S	6	0.2	8	5	4
S	+100S	6	0.2	4	5	[illegible]
S	+150S	8	0.2	16	5	[illegible]
S	+200S	12	0.2	14	5	[illegible]
S	+250S	12	0.2	8	5	8
S	+300S	10	0.2	10	5	[illegible]
S	+350S	MISSING				
S	00+400E+350N	12	0.2	10	5	8
S	+300N	4	0.2	8	5	[illegible]
S	+250N	6	0.2	8	5	4
S	+200N	12	0.2	8	5	[illegible]
S	+150N	12	0.2	10	5	[illegible]
S	+100N	6	0.2	10	5	[illegible]
S	+ 50N	6	0.2	8	5	6
S	+ 00	6	0.2	10	5	4
S	+ 50S	6	0.2	10	5	[illegible]
S	+100S	6	0.2	8	5	[illegible]
S	+150S	4	0.2	8	5	[illegible]
S	+200S	14	0.2	6	5	[illegible]
S	+250S	8	0.2	8	5	6
S	+300S	6	0.2	8	5	[illegible]
S	BL-4 00+400E+200N	6	0.2	6	5	[illegible]

Base Line 3 Liverpool Creek

Base line 4 Wolfin Creek

CERTIFIED BY : [signature]

f (11)

OSSBACHER LABORATORY LTD.

2225 S. SPRINGER AVENUE
BURNABY, B.C. V5B 3N1
TEL : (604) 299 - 6910

CERTIFICATE OF ANALYSIS

TO : CHAPLEAU RESOURCES INC.
1100 N. 4TH ST.
CRANBROOK, B.C.

P.C

CERTIFICATE#: 87462
INVOICE#: 7941
DATE ENTERED: 87-08-28
FILE NAME: CHR87462
PAGE # : 1

PROJECT:
TYPE OF ANALYSIS: GEOCHEMICAL

Base Line 3
Liverpool Creek

PRE FIX	SAMPLE NAME	PPM Cu	PPM Ag	PPM Pb	PPB Au	PPM As
S	BL-3 00+100W+300N	20	0.2	12	5	4
S	+250N	6	0.2	12	5	2
S	+200N	6	0.2	4	5	2
S	+150N	6	0.2	10	5	2
S	+100N	6	0.2	6	5	2
S	+ 50N	8	0.2	14	10	4
S	+ 00	6	0.2	4	5	2
S	+ 50S	4	0.2	4	5	2
S	+100S	14	0.2	4	5	2
S	+150S	60	0.4	14	5	12
S	+200S	10	0.2	4	5	10
S	+250S	8	0.2	6	5	2
S	+300S	10	0.2	10	50	16
S	00+ 50W+300N	6	0.2	14	30	6
S	+250N	8	0.2	14	5	4
S	+200N	8	0.2	12	5	6
S	+150N	6	0.2	8	5	6
S	+100N	8	0.2	6	10	4
S	+ 50N	4	0.2	5	4	2
S	+ 00	6	0.2	6	5	2
S	+ 50S	22	0.2	12	5	12
S	+100S	16	0.2	6	5	10
S	+150S	10	0.2	14	5	4
S	+200S	8	0.2	6	5	2
S	+250S	18	0.2	10	5	6
S	00+00 +300N	6	0.2	14	5	12
S	+250N	6	0.2	8	5	8
S	+200N	12	0.2	8	5	10
S	+150N	18	0.2	6	5	20
S	+100N	12	0.2	4	5	14
S	+ 50N	36	0.2	6	5	8
S	+ 00	6	0.2	10	5	8
S	+ 50S	4	0.2	8	5	8
S	+100S	12	0.2	6	5	8
S	+150S	18	0.4	8	5	10
S	+200S	16	0.2	20	5	8
S	+250S	6	0.2	10	5	2
S	BL-3 00+00 +300S	2	0.2	4	5	2

CERTIFIED BY : J. Ossbach

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ROSSBACHER LABORATORY LTD.

2225 S. SPRINGER AVENUE
BURNABY, B.C. V5B 3N1
TEL : (604) 299 - 6910

CERTIFICATE OF ANALYSIS

TO : CHAPLEAU RESOURCES INC.
2100 N. 4TH ST,
CRANBROOK, B.C.

PROJECT:
TYPE OF ANALYSIS: GEOCHEMICAL

CERTIFICATE#: 87550
INVOICE#: 70066
DATE ENTERED: 87-09-15
FILE NAME: CHP87550
PAGE # : 1

PRE FIX	SAMPLE NAME	PPM Cu	PPM Ag	PPM Pb	PPB Au	PPM As	
A	1	18	16.8	54	5	22	Trenches P.C.
A	2	14	4.6	38	5	10	Shorty Cr bog
A	3	12	2.0	6	5	2	N End B.L. #2
A	4	10	0.4	6	5	2	
A	5	12	0.6	8	5	4	S
A	6	4	0.4	6	5	2	
A	7	26	0.8	60	5	2	
A	8	8	0.2	12	5	2	B.L. #1
A	9	4	0.2	8	5	2	
A	10	6	0.2	26	5	2	Shorty W. End
A	11	4	0.2	16	5	6	
A	12	2	0.2	4	5	2	
A	13	4	0.2	2	5	6	
A	14	4	0.2	4	5	2	Shorty at Derry
A	15	4	0.2	2	5	4	
A	16	2	0.2	2	5	8	
A	17	10	0.2	6	5	8	
A	18	4	0.2	2	5	12	
A	19	6	0.2	2	5	10	
A	20	4	0.2	2	5	24	
A	21	4	0.2	2	5	4	
A	22	2	0.2	2	5	2	
A	23	4	0.8	2	5	44	
A	24	4	1.0	4	5	54	
A	25	2	0.4	4	5	20	Columbia Mine Adit Vicus
A	26	4	0.2	6	5	22	
A	27	4	0.6	22	5	72	
A	28	6	0.2	8	5	16	
A	29	4	0.2	2	5	4	
A	30	4	0.8	12	5	16	
A	31	6	0.4	6	5	54	
A	32	10	0.6	14	5	72	
A	33	4	0.4	4	5	50	
A	34	4	0.2	2	5	14	
A	35	4	0.2	10	5	10	
A	36	6	0.2	4	5	48	
A	37	8	0.4	4	5	32	
A	38	8	0.4	14	10	104	
A	39	4	0.4	16	5	70	
A	40	16	0.4	4	40	66	

CERTIFIED BY : A. Rossbach

(12b)

OSSBACHER LABORATORY LTD.

2225 S. SPRINGER AVENUE
BURNABY, B.C. V5B 3N1
TEL : (604) 299 - 6910

CERTIFICATE OF ANALYSIS

TO : CHAPLEAU RESOURCES INC.
2100 N. 4TH ST,
CRANBROOK, B.C.

PROJECT:
TYPE OF ANALYSIS: GEOCHEMICAL

CERTIFICATE#: 87550
INVOICE#: 70066
DATE ENTERED: 87-09-15
FILE NAME: CHP87550
PAGE # : 2

PREFIX	SAMPLE NAME	PPM Cu	PPM Ag	PPM Pb	PPB Au	PPM As	
A	41	6	1.4	820	5	22	} Columbia
A	42	6	0.2	18	5	14	
A	43	80	0.4	10	5	16	- Liverpool Cr. & Road
A	44	26	0.2	106	5	20	
A	45-A	6	0.2	10	5	96	}
A	45-B	10	0.2	4	5	128	
A	46	10	0.2	28	5	12	Liverpool Cr. Rd
A	47	28	0.6	102	5	20	Road below Columbia
A	48	4	0.2	12	5	10	
A	49	4	0.2	6	5	6	↓
A	50	30	0.2	12	5	12	
A	51	4	0.2	4	5	4	
A	52	2	0.2	2	5	6	
A	53	110	0.2	4	5	2	
A	54	2	0.2	4	5	28	
A	55	2	0.2	4	5	14	

CERTIFIED BY : H. Ossbach

- [illegible] in washed area
- lab screened to -80M
- 5gr. sample for assay (N.S. not enough fines)

13a

ROSSBACHER LABORATORY LTD.

2225 S. SPRINGER AVENUE
BURNABY, B.C. V5B 3N1
TEL : (604) 299 - 6910

CERTIFICATE OF ANALYSIS

TO : CHAPLEAU RESOURCES INC.
2100 N. 4TH ST.
CRANBROOK, B.C.

PROJECT:
TYPE OF ANALYSIS: GEOCHEMICAL

CERTIFICATE#: 87679
INVOICE#: 80051
DATE ENTERED: 87-10-16
FILE NAME: CHP87679
PAGE # : 1

PRE FIX	SAMPLE NAME	PPM Cu	PPM Ag	PPM Zn	PPM Pb	PPB Au	PPM As
L	WO-1A	24	0.2	146	60	5	8
L	1B	22	0.2	80	22	5	16
L	2A	30	0.2	102	24	5	22
L	2B	20	0.2	80	16	5	14
L	3A	34	0.2	86	24	5	18
L	3B	32	0.2	104	42	5	20
L	4A	20	0.2	98	28	5	18
L	4B	24	0.2	90	28	5	14
L	5A	24	0.2	86	38	5	12
L	5B	24	0.2	84	34	5	8
L	6A	198	>100.0	>10000	>10000	40	2560
L	6B	106	32.0	4800	>10000	20	1000
L	7A	44	0.4	104	100	5	44
L	7B	44	0.2	102	68	5	44
L	8A	30	11.6	434	2540	5	172
L	8B	52	13.4	1340	3460	20	376
L	20A	36	11.0	488	1020	5	98
L	20B	20	2.8	280	456	5	72
L	21A	20	2.2	154	276	5	34
L	21B	20	3.4	196	380	5	30
L	22A	18	0.2	74	20	5	18
L	22B	20	0.2	80	20	5	22
L	23A	18	3.2	174	436	5	42
L	23B	20	3.4	200	468	5	74
L	24A	18	3.0	152	344	5	34
L	24B	18	1.6	134	246	5	34
L	25A	18	0.2	52	14	5	20
L	25B	18	0.2	66	16	5	12
L	26A	14	0.2	56	16	5	4
L	WO-26B / 30	16	0.2	60	16	5	6
L	NKD 1	10	0.2	54	6	5	6
L	NKD11A	6	0.2	52	4	5	8
L	NKD-2	14	0.2	78	10	5	10
L	3	24	0.2	88	16	5	10
L	4	20	0.2	64	14	5	16
L	5	26	0.2	82	14	5	26
L	6	16	0.2	76	12	5	9
L	7	10	0.2	52	6	5	4
L	NKD-8	10	0.2	38	4	5	2

CERTIFIED BY : J. Rossbach

b

OSBACHER LABORATORY LTD.

2225 S. SPRINGER AVENUE
BURNABY, B.C. V5B 3N1
TEL : (604) 299 - 6910

CERTIFICATE OF ANALYSIS

TO : CHAPLEAU RESOURCES INC.
2100 N. 4TH ST.
CRANBROOK, B.C.
PROJECT:
TYPE OF ANALYSIS: GEOCHEMICAL

CERTIFICATE#: 87679
INVOICE#: 80051
DATE ENTERED: 87-10-16
FILE NAME: CHP87679
PAGE # : 2

PRE FIX	SAMPLE NAME	PPM Cu	PPM Ag	PPM Zn	PPM Pb	PPB Au	PPM As
L	NKD- 9	14	0.2	96	74	5	20
L	10A	14	0.4	74	34	5	22
L	10B	18	0.2	90	28	5	20
L	10C	10	0.2	56	26	5	18
L	11B	16	0.4	78	24	5	20
L	12A	10	0.2	124	22	5	26
L	12B	14	0.6	94	26	5	26
L	13A	20	0.2	94	24	5	18
L	13B	18	0.2	96	16	5	22
L	14A	14	0.2	108	40	5	10
L	14B	38	0.2	128	26	5	20
L	16A	20	0.2	118	22	5	18
L	16B	10	0.2	78	16	5	16
L	17A	12	0.2	70	20	5	14
L	17B	18	0.2	76	18	5	18
L	18A	20	0.2	54	4	5	22
L	18B	12	0.2	50	4	5	24
L	19A	12	0.2	72	2	5	16
L	19B	10	0.2	62	2	5	20
L	20A	30	0.2	58	12	5	26
L	20B	30	0.2	46	10	5	26
L	21A	24	0.2	84	6	5	32
L	NKD-21B	24	0.2	80	4	5	24
L	NG- 1A	22	0.2	80	18	5	32
L	1B	28	0.2	94	24	5	20
L	2A	28	0.2	96	32	5	24
L	2B	24	0.2	102	26	5	20
L	3A	24	0.2	86	22	5	22
L	3B	24	0.2	88	24	5	22
L	4A	70	0.4	76	28	5	26
L	4B	24	0.2	68	10	5	12
L	5A	20	0.2	82	12	5	14
L	5B	20	0.2	84	14	5	16
L	6A	18	0.2	86	14	5	18
L	6B	16	0.2	80	16	5	16
L	7A	18	0.2	82	10	5	16
L	7B	18	0.2	80	12	5	20
L	8A	18	0.2	76	12	5	18
L	NG- 8B	18	0.2	76	10	5	10

CERTIFIED BY : J. Osbach

C

OSSBACHER LABORATORY LTD.

2225 S. SPRINGER AVENUE
BURNABY, B.C. V5B 3N1
TEL : (604) 299 - 6910

CERTIFICATE OF ANALYSIS

TO : CHAPLEAU RESOURCES INC.
2100 N. 4TH ST.
CRANBROOK, B.C.

PROJECT:
TYPE OF ANALYSIS: GEOCHEMICAL

CERTIFICATE#: 87679
INVOICE#: 80051
DATE ENTERED: 87-10-16
FILE NAME: CHP87679
PAGE # : 3

PRE FIX	SAMPLE NAME	PPM Cu	PPM Ag	PPM Zn	PPM Pb	PPB Au	PPM As
L	NG- 9A	18	0.2	72	14	5	16
L	9B	16	0.2	92	10	5	16
L	10A	14	0.2	56	10	5	12
L	10B	12	0.2	64	8	5	10
L	11A	14	0.2	70	10	5	12
L	11B	20	0.2	78	18	5	12
L	12A	24	0.2	76	18	5	16
L	12B	12	0.2	56	10	5	10
L	13A	14	0.2	60	8	5	4
L	13B	16	0.2	60	12	5	2
L	14A	16	0.2	48	10	5	2
L	14B	14	0.2	56	10	5	2
L	20A	14	0.2	44	6	5	4
L	20B	18	0.2	50	8	5	8
L	21A	12	0.2	44	8	5	2
L	21B	14	0.2	72	10	5	6
L	22A	12	0.2	56	8	5	6
L	22B	12	0.2	52	10	5	2
L	23A	20	0.2	74	16	5	20
L	23B	20	0.2	70	14	5	14
L	24A	12	0.2	58	10	5	16
L	24B	12	0.2	60	12	5	22
L	25A	14	0.2	64	10	5	16
L	25B	14	0.2	72	10	5	12
L	26A	14	0.2	60	10	5	22
L	26B	12	0.2	72	14	5	16
L	27A	12	0.2	54	12	5	8
L	NG-27B	12	0.2	60	12	5	18

(J.K Buck) 80

110 total

CERTIFIED BY : J. Ossbach

Bar

(14) a

NT

ROSSBACHER LABORATORY LTD.

2225 S. SPRINGER AVENUE
BURNABY, B.C. V5B 3N1
TEL : (604) 299 - 6910

CERTIFICATE OF ANALYSIS

TO : CHAPLEAU RESOURCES INC.
2100 N. 4TH ST.
CRANBROOK, B.C.

PROJECT:
TYPE OF ANALYSIS: GEOCHEMICAL

CERTIFICATE#: 87600
INVOICE#: 70112
DATE ENTERED: 87-09-23
FILE NAME: CHP87600
PAGE # : 1

PRE FIX	SAMPLE NAME	PPM Cu	PPM Ag	PPM Pb	PPB Au	PPM As
S	QP 00 + 50S	20	0.4	34	10	16
S	00 +100S	54	0.4	30	5	20
S	00N+150W	16	0.2	18	5	10
S	00 + 00N	24	0.2	20	5	10
S	50N	36	0.2	38	5	14
S	Quarte Pit 100N	230	0.4	24	5	24
S	150N	352	0.4	24	5	20
S	200N	248	0.6	10	5	12
S	250N	58	0.6	14	5	12
S	300N	222	0.6	10	5	12
S	350N	36	0.4	26	5	32
S	QP 00+400N	62	0.8	8	5	10
S	QP 00+ 50W+ 00N	50	0.2	34	5	20
S	50N	32	0.2	24	5	12
S	100N	32	0.2	14	5	12
S	150N	30	0.2	8	5	8
S	200N	372	0.4	20	5	8
S	250N	68	0.2	20	5	12
S	300N	14	0.2	12	5	8
S	350N	30	0.2	14	5	6
S	50W+400N	12	0.4	8	5	12
S	50W+ 50S	38	0.6	80	10	24
S	50S+100W	104	0.2	22	5	16
S	50S+150W	40	0.2	10	5	6
S	50E+ 00N	22	0.8	34	5	8
S	50N	26	0.2	28	5	12
S	100N	78	3.8	22	5	8
S	150N	54	0.2	10	5	4
S	200N	58	0.4	8	5	14
S	250N	68	0.4	10	5	16
S	300N	80	0.2	6	5	14
S	350N	20	0.2	6	5	16
S	400N	36	0.2	6	5	10
S	50S	26	0.2	36	5	18
S	50E+100S	16	0.4	18	5	12
S	100W+ 00N	98	0.2	18	5	16
S	50N	34	0.4	28	5	20
S	100N	22	0.2	18	5	18
S	QP 00+100W+150N	14	0.2	10	5	6

CERTIFIED BY : A. Rossbach

b

ROSSBACHER LABORATORY LTD.

2225 S. SPRINGER AVENUE
BURNABY, B.C. V5B 3N1
TEL : (604) 299 - 6910

CERTIFICATE OF ANALYSIS

TO : CHAPLEAU RESOURCES INC.
2100 N. 4TH ST.
CRANBROOK, B.C.

PROJECT:
TYPE OF ANALYSIS: GEOCHEMICAL

CERTIFICATE#: 87600
INVOICE#: 70112
DATE ENTERED: 87-09-23
FILE NAME: CHP87600
PAGE # : 2

PRE FIX	SAMPLE NAME	PPM Cu	PPM Ag	PPM Pb	PPB Au	PPM As
S	OP 00+100W+200N	12	0.2	12	5	6
S	250N	20	0.2	12	5	8
S	Quartz Pit 300N	20	0.2	20	5	34
S	350N	20	0.2	14	5	16
S	100W+400N	38	0.4	22	5	28
S	100E+ 00N	16	1.0	32	5	14
S	50N	18	0.4	18	50	6
S	100N	72	0.4	22	5	14
S	150N	56	0.8	38	5	14
S	200N	66	0.6	20	5	12
S	250N	16	0.4	12	5	6
S	300N	16	0.6	26	10	8
S	350N	12	0.4	12	5	4
S	400N	14	0.2	8	5	2
S	50S	34	0.6	30	5	14
S	100E+100S	20	0.6	28	5	24
S	150E+ 00N	10	0.4	16	5	6
S	50N	20	0.8	68	5	36
S	100N	52	0.8	22	20	10
S	150N	54	0.6	16	5	14
S	200N	104	0.6	6	5	8
S	250N	36	0.6	14	5	8
S	300N	14	0.6	30	5	14
S	350N	10	0.6	14	5	4
S	400N	10	0.4	8	5	8
S	50S	22	0.8	24	5	16
S	150E+100S	18	0.4	22	5	12
S	200E+ 00N	30	0.6	50	5	10
S	50N	14	0.4	18	5	14
S	100N	56	0.4	30	5	12
S	150N	36	0.6	100	5	50
S	200N	28	0.2	18	5	8
S	250N	118	0.4	6	5	12
S	300N	94	0.6	58	5	30
S	350N	12	0.4	16	5	10
S	400N	24	0.2	8	5	12
S	50S	44	0.4	28	5	14
S	200E+100S	14	0.8	36	5	16
S	OP 00+250E+ 00N	28	0.8	20	5	14

CERTIFIED BY : J. Rossbacher

c

ROSSBACHER LABORATORY LTD.

2225 S. SPRINGER AVENUE
BURNABY, B.C. V5B 3N1
TEL : (604) 299 - 6910

CERTIFICATE OF ANALYSIS

TO : CHAPLEAU RESOURCES INC.
2100 N. 4TH ST.
CRANBROOK, B.C.

PROJECT:
TYPE OF ANALYSIS: GEOCHEMICAL

CERTIFICATE#: 87600
INVOICE#: 70112
DATE ENTERED: 87-09-23
FILE NAME: CHP87600
PAGE # : 3

PRE FIX	SAMPLE NAME	PPM Cu	PPM Ag	PPM Pb	PPB Au	PPM As
S	QP 00+250E+ 50N	24	1.0	50	5	16
S	100N	12	0.4	8	5	4
S	150N	14	0.2	6	5	6
S	200N	20	0.2	2	5	12
S	250N	12	0.2	8	5	14
S	300N	16	0.4	8	5	10
S	350N	14	0.4	16	5	12
S	400N	22	0.2	20	10	18
S	50S	24	0.4	24	5	12
S	250E+100S	30	0.6	22	5	6
S	300E+ 00N	22	0.6	12	5	10
S	50N	22	0.6	26	5	10
S	100N	16	0.2	12	5	8
S	150N	18	0.2	16	5	4
S	200N	14	0.2	12	5	10
S	250N	14	0.2	8	5	4
S	300N	12	0.6	14	5	12
S	350N	14	0.2	8	5	6
S	400N	18	0.2	16	5	12
S	50S	32	0.6	20	5	12
S	300E+100S	28	0.4	20	5	8
S	350E+ 00N	14	0.4	14	5	8
S	50N	20	0.2	18	5	2
S	100N	10	0.2	8	5	4
S	150N	32	0.2	20	5	12
S	200N	10	0.2	6	5	10
S	250N	30	0.2	10	5	6
S	300N	12	0.4	8	5	12
S	350N	38	1.0	8	130	8
S	400N	90	0.2	24	10	18
S	50S	26	0.4	14	5	8
S	QP 00+350E+100S	22	0.4	16	120	14
S	BL 00A 200N+100W	34	0.4	20	5	6
S	150W	20	0.6	24	5	8
S	200W	30	0.4	12	5	8
S	250W	28	0.4	22	5	8
S	300W	18	0.4	22	5	8
S	350W	30	0.2	14	5	10
S	BL 00A 200N+400W	34	0.6	20	5	4

Quartz Pit

CERTIFIED BY : J. Rossbach

d

ROSSBACHER LABORATORY LTD.

2225 S. SPRINGER AVENUE
BURNABY, B.C. V5B 3N1
TEL : (604) 299 - 6910

CERTIFICATE OF ANALYSIS

TO : CHAPLEAU RESOURCES INC.
2100 N. 4TH ST.
CRANBROOK, B.C.

PROJECT:
TYPE OF ANALYSIS: GEOCHEMICAL

CERTIFICATE#: 87600
INVOICE#: 70112
DATE ENTERED: 87-09-23
FILE NAME: CHP87600
PAGE # : 4

PRE FIX	SAMPLE NAME	PPM Cu	PPM Ag	PPM Pb	PPB Au	PPM As
S	BL 00A 200N+450W	24	0.2	18	5	10
S	500W	18	0.2	18	5	6
S	550W	24	0.2	14	5	8
S	600W	18	0.2	16	5	12
S	650W	14	0.2	10	5	4
S	200N+700W	16	0.2	14	5	8
S	250N+250W	26	0.2	22	5	16
S	300W	22	0.2	16	5	12
S	350W	26	0.2	38	5	14
S	400W	18	0.2	14	5	12
S	450W	16	0.2	14	5	12
S	500W	18	0.2	10	5	12
S	550W	28	0.2	14	5	8
S	600W	16	0.2	12	5	12
S	650W	14	0.2	14	5	8
S	BL 00A 250N+700W	14	0.2	12	5	4
S	BL5+ 00N	12	0.2	14	5	6
S	Base line 50N	18	0.2	12	5	10
S	100N	12	0.2	12	5	8
S	5 150N	18	0.2	12	5	6
S	Palmer Bar 200N	14	0.2	16	5	4
S	250N	16	0.2	10	5	10
S	300N	16	0.2	8	5	14
S	350N	18	0.2	10	10	10
S	400N	18	0.4	14	5	10
S	450N	14	0.2	14	5	2
S	500N	28	0.2	30	5	16
S	550N	10	0.2	12	5	6
S	600N	10	0.2	16	5	8
S	650N	24	0.2	26	5	16
S	700N	20	0.2	20	5	16
S	BL5+750N	18	0.2	12	5	8
S	BL5+800S	24	0.2	16	5	14
S	850S	10	0.2	12	5	12
S	900S	20	0.2	14	5	8
S	950S	14	0.2	18	5	10
S	1000S	8	0.2	14	5	10
S	1050S	10	0.2	10	5	10
S	BL5+1100S	38	0.2	10	5	16

CERTIFIED BY : F. Rossbach

e

ROSSBACHER LABORATORY LTD.

2225 S. SPRINGER AVENUE
BURNABY, B.C. V5B 3N1
TEL : (604) 299 - 6910

CERTIFICATE OF ANALYSIS

TO : CHAPLEAU RESOURCES INC.
2100 N. 4TH ST.
CRANBROOK, B.C.

PROJECT:
TYPE OF ANALYSIS: GEOCHEMICAL

CERTIFICATE#: 87600
INVOICE#: 70112
DATE ENTERED: 87-09-23
FILE NAME: CHP87600
PAGE # : 5

PRE FIX	SAMPLE NAME	PPM Cu	PPM Ag	PPM Pb	PPB Au	PPM As
S	BL5+1150S	14	0.2	16	5	10
S	Base Line 5 1200S	34	0.4	18	5	12
S	1250S	20	0.4	14	5	12
S	Palmer Bar 1300S	14	0.2	14	5	8
S	1350S	16	0.2	14	5	10
S	1400S	14	0.2	18	5	12
S	1450S	20	0.2	20	5	14
S	1500S	20	0.2	16	5	16
S	1550S	22	0.2	18	5	14
S	1600S	14	0.2	18	5	12
S	1650S	8	0.2	14	5	6
S	1700S	10	0.2	12	5	8
	1750S	12	0.2	14	5	6
	1800S	14	0.2	14	5	6
S	1850S	18	0.2	12	5	8
S	1900S	16	0.2	10	5	10
S	1950S	18	0.2	10	5	8
S	2000S	14	0.2	18	5	12
S	2050S	24	0.2	20	5	16
S	BL5+2100S	30	0.2	18	5	16
S	BL6+ 00N	10	1.6	14	5	6
S	Base Line 6 50N	20	0.2	16	5	10
S	100N	12	0.2	8	5	8
S	Palmer Bar 150N	14	0.2	10	5	4
S	200N	12	0.2	16	5	12
S	250N	10	0.2	10	5	4
S	300N	14	0.2	10	5	12
S	350N	10	0.2	12	5	4
S	400N	10	0.2	30	5	6
S	450N	12	0.2	10	5	10
S	500N	14	0.2	10	5	4
S	550N	18	0.2	20	5	14
S	600N	14	0.2	18	5	10
S	650N	6	0.2	8	5	8
S	700N	12	0.2	14	5	6
S	BL6+ 750N	4	0.2	4	5	6
S	BL6+ 850S	28	0.2	32	5	18
	900S	50	2.0	56	5	22
	BL6+ 950S	10	0.2	10	5	8

CERTIFIED BY : J. Rossbach

f

ROSSBACHER LABORATORY LTD.

2225 S. SPRINGER AVENUE
BURNABY, B.C. V5B 3N1
TEL : (604) 299 - 6910

CERTIFICATE OF ANALYSIS

TO : CHAPLEAU RESOURCES INC.
2100 N. 4TH ST.
CRANBROOK, B.C.

PROJECT:
TYPE OF ANALYSIS: GEOCHEMICAL

CERTIFICATE#: 87600
INVOICE#: 70112
DATE ENTERED: 87-09-23
FILE NAME: CHP87600
PAGE # : 6

Baseline 6
Palmer Bar

PRE FIX	SAMPLE NAME	PPM Cu	PPM Ag	PPM Pb	PPB Au	PPM As
S	BL6+1000S	30	0.2	34	5	12
S	1050S	18	0.2	18	5	12
S	1100S	14	0.4	16	5	6
S	1150S	16	0.2	12	5	10
S	1200S	12	0.2	18	5	4
S	1250S	8	0.2	12	5	4
S	1300S	10	0.2	30	5	10
S	1350S	22	0.2	38	5	24
S	1400S	16	0.4	16	5	8
S	1450S	22	0.4	22	5	10
S	1500S	14	0.2	16	5	12
S	1550S	14	0.2	10	5	10
S	1600S	18	0.2	18	5	20
	1650S	26	0.4	30	5	54
	1700S	12	0.2	8	5	12
S	1750S	16	0.2	18	5	8
S	1800S	10	0.2	8	5	6
S	1850S	30	0.2	4	5	24
S	1900S	14	0.2	8	5	8
S	1950S	22	0.4	24	5	10
S	2000S	12	0.2	6	5	8
S	2050S	12	0.2	6	5	8
S	2100S	22	0.2	116	5	8
S	2150S	26	0.2	16	5	10
S	BL6+2200S	34	0.2	16	5	14

CERTIFIED BY : J. Rossbach

Bar (15)

ROSSBACHER LABORATORY LTD.

2225-S. SPRINGER AVENUE
BURNABY, B.C. V5B 3N1
TEL : (604) 299 - 6910

CERTIFICATE OF ANALYSIS

TO : CHAPLEAU RESOURCES LTD.
2100 N. 4th ST.
CRANBROOK, B.C.

PROJECT:
TYPE OF ANALYSIS: GEOCHEMICAL

CERTIFICATE#: 87600.A
INVOICE#: 70170
DATE ENTERED: 87-09-30
FILE NAME: CHP87600.A
PAGE # : 1

PREFIX	SAMPLE NAME	PPM Zn
S	BL5 00N	94
S	50N	50
S	100N	52
S	150N	62
S	200N	70
S	250N	66
S	300N	64
S	350N	90
S	400N	86
S	450N	82
S	500N	68
S	550N	104
S	600N	136
S	650N	74
S	700N	102
S	750N	88
S	800N	78
S	850N	62
S	900N	114
S	BL5 950N	96
S	1000N	62
S	1050N	54
S	1100N	98
S	1150N	182
S	1200N	150
S	1250N	132
S	1300N	116
S	1350N	80
S	1400N	110
S	1450N	78
S	1500N	138
S	1550N	166
S	1600N	134
S	1650N	42
S	1700N	54
S	1750N	54
S	1800N	78
S	1850N	70
S	1900N	126
S	BL5 1950N	126

Base Line 5
Palmer Bar

CERTIFIED BY : J. Rossbach

ROSSBACHER LABORATORY LTD.

2225 S. SPRINGER AVENUE
BURNABY, B.C. V5B 3N1
TEL : (604) 299 - 6910

CERTIFICATE OF ANALYSIS

TO : CHAPLEAU RESOURCES LTD.
2100 N. 4th ST.
CRANBROOK, B.C.

PROJECT:
TYPE OF ANALYSIS: GEOCHEMICAL

CERTIFICATE#: 87600.A
INVOICE#: 70170
DATE ENTERED: 87-09-30
FILE NAME: CHP87600.A
PAGE # : 2

PRE FIX	SAMPLE NAME		PPM Zn
S	Base line 5	BL5 2000N	170
S		2050N	120
S		BL5 2100N	104
S		BL6 00N	60
S		50N	74
S		100N	74
S	Base line 6	150N	46
S	Palmar Bar	200N	72
S		250N	64
S		300N	92
S		350N	136
S		400N	170
S		450N	108
S		500N	50
S		550N	124
S		600N	86
S		650N	58
S		700N	64
S		750N	28
S		BL6 850N	56
S		900N	NSS
S		950N	70
S		1000N	58
S		1050N	116
S		1100N	74
S		1150N	82
S		1200N	62
S		1250N	76
S		1300N	92
S		1350N	96
S		1400N	152
S		1450N	138
S		1500N	88
S		1550N	60
S		1600N	104
S		1650N	118
S		1700N	68
S		1750N	96
S		1800N	84
S		BL6 1850N	80

CERTIFIED BY : A. Rossbach

C

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CERTIFICATE OF ANALYSIS

2225 S. SPRINGER AVENUE
BURNABY, B.C. V5B 3N1
TEL : (604) 299 - 6910

TO : CHAPLEAU RESOURCES LTD.
2100 N. 4th ST.
CRANBROOK, B.C.

PROJECT:
TYPE OF ANALYSIS: GEOCHEMICAL

CERTIFICATE#: 87600.A
INVOICE#: 70170
DATE ENTERED: 87-09-30
FILE NAME: CHP87600.A
PAGE # : 3

PREFIX	SAMPLE NAME	PPM Zn
S	BL6 1900N	112
S	1950N	106
S	2000N	80
S	2050N	56
S	2100N	144
S	2150N	112
S	BL6 2200N	116

Base Line 6
@ Palmer Bar

CERTIFIED BY : P. Rossbach

Bar

(16)

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CERTIFICATE OF ANALYSIS

TO : CHAPLEAU RESOURCES INC.
2100 N. 4TH ST.
CRANBROOK, B.C.
TYPE OF ANALYSIS: Au METALLICS

CERTIFICATE#: 87566
PROJECT :
INVOICE# : 70094
PAGE# : 1

ELCR SAMPLE NAME	Oz/t -100M	Oz/t +100M	mg.Au +100M	Wt.gm -100M	Wt.gm +100M	Oz/t FINAL
CUT #1:87-UB-04	0.019	0.114	0.032	224	8.17	0.022
ELCR 87-UB-05	0.094	0.089	0.027	234	8.80	0.094
87-UB-09	0.018	1.186	0.120	190	2.95	0.036
87-UB-10	0.001	0.001	0.001	284	6.79	0.001
87-UB-11	0.001	0.001	0.001	202	9.33	0.001
87-UB-12	0.001	0.001	0.001	269	5.65	0.001
87-UB-14	0.044	0.064	0.018	205	8.14	0.045
CUT #1: W-01	0.009	0.001	0.001	224	5.34	0.009
CUT #2:UB-87-09	0.005	0.340	0.042	229	3.60	0.010
87-UB-10	0.001	0.001	0.001	198	1.41	0.001
87-UB-11	0.004	0.133	0.008	217	1.75	0.005
CUT #2:UB-87-12	0.101	0.001	0.001	237	4.07	0.099

CERTIFIED BY : J. Rossbach

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CERTIFICATE OF ANALYSIS

TO : CHAPLEAU RESOURCES LTD.
2100 N. 4TH ST.
CRANBROOK, B.C.

PROJECT:
TYPE OF ANALYSIS: GEOCHEMICAL

CERTIFICATE#: 87607
INVOICE#: 70117
DATE ENTERED: 87-10-05
FILE NAME: CHP87607
PAGE # : 1

PREFIX	SAMPLE NAME	PPM Cu	PPM Ag	PPM Pb	PPB Au	PPM As
A	ELCR- 1	740	1.0	190	2220	98
A	2	194	0.2	18	250	18
A	3	210	0.2	18	7200	8
A	ELCR- 4	228	0.2	28	2380	6
A	LB 87-01	2840	1.6	2	20	2
A	LB 87-02	94	0.2	2	30	92
A	ELCR-10	110	5.4	36	4020	8
S	ELCR-10	82	0.2	32	4180	8

CERTIFIED BY : V. Rossbach

Bar

(17)

ROSSBACHER LABORATORY LTD.

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TEL : (604) 299 - 6910

CERTIFICATE OF ANALYSIS

TO : CHAPLEAU RESOURCES LTD.
2100 N. 4th STREET
CRANBROOK, B.C.

TYPE OF ANALYSIS: Au METALLICS

CERTIFICATE#: 87607.A
PROJECT :
INVOICE# : 70117
PAGE# : 1

SAMPLE NAME	Oz/t -100M	Oz/t +100M	mg.Au +100M	Wt.gm -100M	Wt.gm +100M	Oz/t FINAL
ELCR -01	0.090	0.001	0.001	242	3.74	0.089
ELCR -02	0.007	0.001	0.001	193	1.48	0.007
ELCR -03	0.076	1.488	0.050	185	0.98	0.083
ELCR -04	0.082	0.455	0.054	209	3.46	0.088
LB87 -01	0.001	0.001	0.001	228	5.82	0.001
LB87 -02	0.001	0.001	0.001	230	9.05	0.001
-80M.ELCR-10C	0.101	16.812	1.124	224	1.95	0.245

CERTIFIED BY : C. Rossbach

Bay (18)

ROSSBACHER LABORATORY LTD.

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BURNABY, B.C. V5B 3N1
TEL : (604) 299 - 6910

CERTIFICATE OF ANALYSIS

TO : CHAPLEAU RESOURCES LTD.
2100 N. 4th STREET
VANCOUVER, B.C.

TYPE OF ANALYSIS: Au METALLICS

CERTIFICATE#: 27633
PROJECT :
INVOICE# : 70171
PAGE# : 1

SAMPLE NAME	Oz/t -100M	Oz/t +100M	mg.Au +100M	Wt.gm -100M	Wt.gm +100M	Oz/t FINAL
ELCR 5-A	1.890	43.609	9.240	228	6.18	2.991
ELCR 5-B	2.940	31.005	10.290	235	9.68	4.050
ELCR 5-C	1.890	45.235	7.770	236	5.01	2.791
ELCR 6-A	0.063	2.781	0.082	195	0.86	0.075
ELCR 6-B	0.017	1.209	0.080	216	1.93	0.028
ELCR 6-C	0.013	0.001	0.001	248	3.96	0.013
ELCR 7-A	0.630	109.376	1.575	184	0.42	0.878
ELCR 7-B	0.578	148.187	1.575	166	0.31	0.853

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(19)a

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CERTIFICATE OF ANALYSIS

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TO : CHAPLEAU RESOURCES INC.
2100 N. 4TH ST.
CRANBROOK, B.C.

PROJECT:
TYPE OF ANALYSIS: GEOCHEMICAL

CERTIFICATE#: 87562.A
INVOICE#: 70073
DATE ENTERED: 87-09-17
FILE NAME: CHP87562.A
PAGE # : 1

PRE FIX	SAMPLE NAME	PPM Cu	PPM Ag	PPM Pb	PPB Au	PPM As	
A	56	16	0.2	30	160	44	
A	57	10	5.8	90	30	24	
A	58	8	0.2	12	5	6	
A	59	14	0.2	42	2120	56	
A	60	8	0.2	4	- 20	20	
A	61	28	0.6	78	50	26	
A	62	4	0.4	10	20	8	Homestake Veins
A	63	22	0.6	36	40	16	
A	64	40	1.4	600	12600	68	
A	65	8	0.6	64	60	8	
A	66	4	0.4	10	40	14	
A	67	16	0.6	132	6000	74	
A	68	6	0.4	46	70	16	
A	70	8	0.2	6	5	12	Wuhun Spring Fault
A	71	6	0.2	2	5	6	
A	72	48	0.4	336	5	6	
A	73	12	0.4	72	5	4	
A	74	4	0.2	24	5	6	
A	75	6	0.2	8	5	4	
A	76	6	0.2	4	5	6	Wuhun Cr. Road South
A	77	4	0.2	8	5	2	
A	78	10	0.2	6	5	2	
A	79	2	0.2	2	5	4	
A	80	10	0.2	2	5	10	
A	81	4	0.2	2	5	4	
A	82	6	0.2	2	5	6	
A	83	2	0.2	2	5	14	
A	84	2	0.2	2	5	12	
A	85	28	0.2	2	5	12	Wuhun Cr. Road North
A	86	12	0.2	2	5	8	
A	87	38	0.2	2	5	14	
A	88	42	0.2	4	5	14	
A	89	26	0.2	18	5	14	
A	90	14	0.2	18	5	14	

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(20) a

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CERTIFICATE OF ANALYSIS

TO: CHAPMAN RESOURCES LTD.,
2100 E. 11TH ST.,
CRANBROOK, B.C.

PROJECT:
TYPE OF ANALYSIS: GEOCHEMICAL

CERTIFICATE#: 87707
INVOICE#: 86090
DATE ENTERED: 07-10-22
FILE NAME: CHR87707
PAGE # : 1

Noke Creek

PRE FIX	SAMPLE NAME	PPM Cu	PPM Ag	PPM Zn	PPM Pb	PPB Au	PPM As
S	NOKE BL 14+00N+100W	54	0.2	54	28	5	22
S	75W	14	0.2	28	4	5	8
S	50W	14	0.2	40	4	5	14
S	25W	12	0.2	46	2	5	10
S	00	14	0.2	90	6	5	10
S	25E	22	0.2	54	14	5	14
S	50E	10	0.2	36	6	5	10
S	75E	10	0.2	58	4	5	10
S	NOKE BL 14+00N+100E	10	0.2	40	1	5	4
S	NOKE BL 13+50N+100W	128	0.2	48	14	5	10
S	75W	22	0.2	64	2	5	14
S	50W	10	0.2	42	6	5	6
S	25W	10	0.2	54	4	5	8
S	00	8	0.2	46	2	5	4
S	25E	8	0.2	26	2	5	6
S	50E	8	0.2	90	2	5	10
S	75E	4	0.2	58	4	5	8
S	NOKE BL 13+50N+100E	4	0.2	34	6	5	6
S	NOKE BL 13+00N+100W	4	0.2	50	4	5	4
S	75W	4	0.2	34	4	5	6
S	50W	6	0.2	52	8	5	10
S	25W	10	0.2	50	6	5	6
S	00	8	0.2	58	4	5	6
S	25E	6	0.2	82	4	5	4
S	50E	4	0.2	42	4	5	10
S	75E	8	0.2	81	10	5	8
S	NOKE BL 13+00N+100E	8	0.2	24	4	5	4
S	NOKE BL 12+50N+100W	8	0.2	36	4	5	4
S	75W	10	0.2	64	8	5	6
S	50W	6	0.2	42	4	5	10
S	25W	6	0.2	50	2	5	10
S	00	4	0.2	70	2	5	4
S	25E	6	0.2	48	4	5	8
S	50E	10	0.2	62	4	5	10
S	75E	8	0.2	50	6	5	8
S	NOKE BL 12+50N+100E	4	0.2	38	6	5	8
S	NOKE BL 12+00N+100W	4	0.2	26	2	5	4
S	75W	4	0.2	34	2	5	4
S	50W	12	0.2	56	10	5	8
S	NOKE BL 12+00N+ 25W	24	0.2	52	10	5	20

CERTIFIED BY : J. Rossbach

ROSSBACHER LABORATORY LTD.

2225 S. SPRINGER AVENUE
BURNABY, B.C. V5B 3N1
TEL : (604) 299 - 6910

CERTIFICATE OF ANALYSIS

TO: CHAPLEAU RESOURCES LTD.,
2100 N 4TH ST.,
CRANBROOK . B.C.

PROJECT:
TYPE OF ANALYSIS: GEOCHEMICAL

CERTIFICATE#: 87707
INVOICE#: 80090
DATE ENTERED: 87-10-22
FILE NAME: CHP87707
PAGE # : 2

PREFIX	SAMPLE NAME	PPM Cu	PPM Ag	PPM Zn	PPM Pb	PPB Au	PPM As
S	NOKE BL 1+200N+ 00	10	0.2	64	6	5	6
S	25E	12	0.2	72	6	5	6
S	50E	4	0.2	30	2	5	2
S	75E	10	0.2	60	6	5	6
S	NOKE BL 1+200N+100E	12	0.2	46	10	5	12
S	NOKE BL1+250N+100W	12	0.2	46	8	5	2
S	75W	10	0.2	40	8	5	4
S	50W	10	0.2	50	4	5	2
S	25W	12	0.2	40	4	5	2
S	00	8	0.2	50	12	5	2
S	25E	8	0.2	38	4	5	4
S	50E	8	0.2	32	4	5	2
S	75E	8	0.2	36	2	5	2
S	NOKE BL1+250N+100E	14	0.2	50	8	5	2
S	NOKE BL1+300N+100W	8	0.2	48	4	5	2
S	75W	8	0.2	36	6	5	2
S	50W	6	0.2	38	2	5	2
S	25W	4	0.2	30	2	5	2
S	25E	6	0.2	30	2	5	2
S	NOKE BL1+300N+ 50E	4	0.2	30	2	5	6
S	75E	4	0.2	22	4	5	8
S	NOKE BL1+300N+100E	6	0.2	24	4	5	4
S	NOKE BL1+350N+100W	8	0.2	40	6	5	4
S	75W	6	0.2	40	4	5	4
S	50W	6	0.2	36	8	5	10
S	25W	8	0.2	50	4	5	4
S	00	6	0.2	28	4	5	2
S	25E	12	0.2	42	10	5	2
S	50E	10	0.2	38	8	5	8
S	75E	10	0.2	40	8	5	4
S	NOKE BL1+350N+100E	12	0.2	38	16	5	6
S	NOKE BL1+400N+100W	4	0.2	26	2	5	4
S	75W	8	0.2	50	2	5	10
S	50W	10	0.2	32	8	5	4
S	25W	8	0.2	48	4	5	20
S	00	6	0.2	26	4	5	2
S	25E	12	0.2	40	6	5	8
S	50E	18	0.2	46	10	5	8
S	75E	4	0.2	28	10	5	2
S	NOKE BL1+400N+100E	6	0.2	24	2	5	2

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Silts

(21) a

ROSSBACHER LABORATORY LTD.

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BURNABY, B.C. V5B 3N1
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CERTIFICATE OF ANALYSIS

Morgan

TO : CHAPLEAU RESOURCES LTD.,
2100 N 4TH ST.,
CRANBROOK , B.C.

PROJECT:

TYPE OF ANALYSIS: GEOCHEMICAL

CERTIFICATE#: 87698
INVOICE#: 80089
DATE ENTERED: 87-10-22
FILE NAME: CHP87698
PAGE # : 1

PRE FIX	SAMPLE NAME	PPM Cu	PPM Ag	PPM Zn	PPM Pb	PPB Au	PPM As
S	Strong CK-1A	16	0.2	54	16	5	10
S	1B	14	0.2	56	14	5	4
S	2A	8	0.2	48	12	5	2
S	2Bi	6	0.2	66	12	5	4
S	2Bii	6	0.2	44	6	5	2
S	3A	8	0.2	72	10	5	2
S	4A	4	0.2	38	2	5	12
S	4B	4	0.2	36	2	5	10
S	5A	4	0.2	52	2	5	4
S	CK-5B	4	0.2	34	2	5	6
S	6A	4	0.2	66	2	5	6
S	6B	4	0.2	40	2	5	2
S	7A	4	0.2	32	2	5	2
S	7B	2	0.2	26	2	5	2
S	8A	4	0.2	46	2	5	2
S	8B	6	0.2	40	2	70	4
S	9A	6	0.2	42	4	5	4
S	9B	6	0.2	30	2	5	2
S	10A	6	0.2	40	4	5	2
S	CK-10B	6	0.2	42	6	5	2
S	LD-1A	16	0.2	78	14	5	10
S	London 1B	14	0.2	52	18	5	10
S	2A	26	0.2	92	28	5	16
S	2B	26	0.2	72	24	5	12
S	3A	30	0.2	64	72	5	8
S	3B	32	0.2	50	28	5	14
S	4A	30	0.2	72	40	5	10
S	4B	24	0.2	58	22	5	8
S	5A	22	0.2	66	18	5	12
S	5B	20	0.2	58	18	5	10
S	6A	14	0.2	58	12	5	6
S	LD-6B	18	0.2	140	18	5	14
S	London Branch MB-1A	4	0.2	28	4	5	2
S	1B	4	0.2	34	4	5	10
S	2A	10	0.2	36	8	5	8
S	MB-2B	10	0.2	36	10	5	8
S	Wahum WH-1A	12	0.2	54	10	5	10
S	1B	10	0.2	56	6	5	4
S	2A	10	0.2	50	6	5	6
S	WH-2B	16	0.2	50	14	20	2

CERTIFIED BY : F. Rossbach

ROSSBACHER LABORATORY LTD.

2225 S. SPRINGER AVENUE
BURNABY, B.C. V5B 3N1
TEL : (604) 299 - 6910

CERTIFICATE OF ANALYSIS

TO : CHAPLEAU RESOURCES LTD.,
2100 N 4TH ST.,
CRANBROOK, B.C.

PROJECT:

TYPE OF ANALYSIS: GEOCHEMICAL

CERTIFICATE#: 87698
INVOICE#: 80089
DATE ENTERED: 87-10-22
FILE NAME: CHP87698
PAGE # : 2

PRE FIX	SAMPLE NAME	PPM Cu	PPM Ag	PPM Zn	PPM Pb	PPB Au	PPM As
S	WH-3A	12	0.2	44	12	5	2
S	3B	8	0.2	42	6	5	2
S	4A	12	0.2	44	10	5	2
S	4B	18	0.2	56	12	5	4
S	5A	12	0.2	44	8	5	4
S	5B	10	0.2	40	10	5	8
S	6A	12	0.2	44	10	5	4
S	6B	10	0.2	38	8	5	2
S	7A	16	0.2	42	10	5	8
S	WH-7B	12	0.2	38	8	5	4
S	8A	8	0.2	48	8	5	2
S	W 8B	8	0.2	48	10	20	6
S	9A	14	0.2	44	10	5	4
S	WH-9B	14	0.2	44	10	5	6
S	WL-1A	16	0.2	52	8	5	4
S	Waverly 1B	14	0.2	48	8	5	2
S	2A	14	0.2	54	8	5	6
S	2B	10	0.2	46	6	5	4
S	3A	14	0.2	64	6	5	6
S	WL-3B	12	0.2	78	12	5	2
S	4A	12	0.2	42	6	5	6
S	4B	8	0.2	38	10	5	10
S	5A	12	0.2	48	8	5	6
S	5B	12	0.2	68	10	5	10
S	6A	16	0.2	56	8	5	4
S	WL-6B	12	0.2	50	8	5	8

CERTIFIED BY : A. Rossbach

Bar

a

ROSSBACHER LABORATORY LTD.

2225 S. SPRINGER AVENUE
BURNABY, B.C. V5B 3N1
TEL : (604) 299 - 6910

CERTIFICATE OF ANALYSIS

TO : CHAPLEAU RESOURCES INC
2100 N. 4TH ST.
CRANBROOK, B.C.

PROJECT:
TYPE OF ANALYSIS: GEOCHEMICAL

CERTIFICATE#: 87562
INVOICE#: 70054
DATE ENTERED: 87-09-14
FILE NAME: CHP87562
PAGE # : 1

PRE FIX	SAMPLE NAME	PPM Cu	PPM Ag	PPM Zn	PPM Pb	PPB Au	PPM As
S	BL 00+ 00N+ 00W	28	0.2	86	8	5	6
S	50W	26	0.2	104	10	5	6
S	Palmer Bar 100W	18	0.2	72	12	5	10
S	150W	16	0.2	198	28	5	8
S	200W	14	0.2	100	8	5	6
S	250W	16	0.2	120	20	5	6
S	300W	10	0.2	98	10	5	6
S	350W	18	0.2	106	16	5	8
S	400W	14	0.2	74	12	5	8
S	450W	18	0.2	120	18	5	4
S	500W	12	0.2	94	10	5	4
S	550W	12	0.2	128	22	5	10
S	600W	12	0.2	130	14	5	8
S	650W	10	0.2	50	6	5	4
S	700W	14	0.2	112	14	5	6
S	750W	16	0.2	90	14	5	14
S	800W	10	0.2	72	8	5	8
S	00N+850W	12	0.4	100	8	5	6
S	50N+ 00W	18	0.2	88	12	5	18
S	50W	18	0.4	98	10	5	4
S	100W	18	0.4	120	26	5	6
S	150W	16	0.4	140	16	5	8
S	200W	14	0.2	168	6	5	8
S	250W	16	0.2	108	8	5	8
S	300W	16	0.2	142	14	5	10
S	350W	20	0.2	102	14	5	8
S	400W	14	0.2	68	12	5	10
S	450W	18	0.2	84	8	5	6
S	500W	18	0.2	64	10	5	6
S	550W	14	0.2	68	14	5	10
S	600W	12	0.2	92	14	5	6
S	650W	14	0.2	128	10	5	14
S	700W	14	0.2	60	8	5	6
S	50N+750W	14	0.4	118	8	5	10
S	100N+ 00W	28	0.2	112	18	5	10
S	50W	22	0.2	128	16	5	12
S	100W	16	0.2	58	8	5	10
S	150W	22	0.4	130	24	5	12
S	BL 00+100N+200W	24	0.2	120	14	5	8

CERTIFIED BY : F. Rossbach

ROSSBACHER LABORATORY LTD.

2225 S. SPRINGER AVENUE
BURNABY, B.C. V5B 3N1
TEL : (604) 299 - 6910

CERTIFICATE OF ANALYSIS

TO : CHAPLEAU RESOURCES INC
2100 N. 4TH ST.
CRANBROOK, B.C.

PROJECT:
TYPE OF ANALYSIS: GEOCHEMICAL

CERTIFICATE#: 87562
INVOICE#: 70054
DATE ENTERED: 87-09-14
FILE NAME: CHP87562
PAGE # : 2

PRE FIX	SAMPLE NAME	PPM Cu	PPM Ag	PPM Zn	PPM Pb	PPB Au	PPM As
S	BL 00+100N+250W	20	0.2	100	10	5	8
S	300W	12	0.4	100	16	5	10
S	350W	16	0.2	98	16	5	4
S	400W	18	0.2	102	10	5	2
S	Palmer Bar 450W	10	0.2	102	8	5	6
S	500W	18	0.2	70	16	5	10
S	550W	20	0.2	56	16	5	4
S	600W	14	0.2	68	14	5	6
S	650W	18	0.2	98	26	5	12
S	700W	14	0.2	80	6	5	6
S	100N+750W	10	0.2	122	12	5	4
S	200N+ 00W	14	0.4	128	12	5	10
S	50W	24	0.2	110	14	5	10
S	100W	22	0.2	78	14	5	6
S	150W	24	0.2	114	16	5	8
S	200W	24	0.4	102	16	5	8
S	250W	18	0.4	94	18	5	10
S	300W	22	0.2	150	12	5	8
S	350W	28	0.4	108	12	5	8
S	400W	44	0.2	72	10	5	8
S	450W	40	0.2	102	16	5	12
S	500W	20	0.2	138	14	5	12
S	550W	16	0.2	146	14	5	14
S	600W	16	0.2	102	12	5	14
S	650W	20	0.2	62	10	5	8
S	200N+700W	22	0.4	88	10	5	20
S	250N+ 00W	18	0.2	98	20	5	10
S	50W	20	0.2	150	12	5	6
S	100W	36	0.2	100	12	5	4
S	150W	18	0.2	138	12	5	4
S	200W	32	0.4	60	14	5	18
S	250W	24	0.2	90	18	5	12
S	300W	26	0.2	176	14	5	10
S	350W	20	0.2	118	16	5	10
S	400W	26	0.4	192	14	5	10
S	450W	34	0.4	82	26	5	12
S	500W	24	0.2	78	8	5	10
S	550W	22	0.4	134	8	5	12
S	BL 00+250N+600W	20	0.2	128	10	5	8

CERTIFIED BY : J. Rossbach

ROSSBACHER LABORATORY LTD.

2225 S. SPRINGER AVENUE
BURNABY, B.C. V5B 3N1
TEL : (604) 299 - 6910

CERTIFICATE OF ANALYSIS

TO : CHAPLEAU RESOURCES INC
2100 N. 4TH ST.
CRANBROOK, B.C.

PROJECT:
TYPE OF ANALYSIS: GEOCHEMICAL

CERTIFICATE#: 87562
INVOICE#: 70054
DATE ENTERED: 87-09-14
FILE NAME: CHP87562
PAGE # : 3

PREFIX	SAMPLE NAME	PPM Cu	PPM Ag	PPM Zn	PPM Pb	PPB Au	PPM As
S	BL 00+25ON+65OW	14	0.2	104	6	5	6
S	25ON+70OW	14	0.2	110	12	5	6
S	10OS+ 00W	10	0.2	92	12	5	12
S	50W	18	0.4	94	4	5	12
S	100W	16	0.2	102	8	5	6
S	150W	22	0.2	96	14	5	12
S	200W	18	0.2	64	8	5	10
S	250W	18	0.2	48	4	5	10
S	300W	14	0.2	66	10	5	8
S	350W	10	0.2	62	6	5	6
S	400W	10	0.2	66	6	5	10
S	450W	8	0.2	68	10	5	8
S	500W	16	0.2	100	18	5	12
	550W	10	0.2	72	6	5	12
S	600W	14	0.2	64	24	5	8
S	650W	12	0.2	72	10	5	12
S	700W	20	0.2	84	12	5	12
S	750W	8	0.2	78	8	5	10
S	800W	12	0.2	138	12	5	8
S	850W	8	0.2	82	4	5	4
S	900W	10	0.2	56	6	5	12
S	950W	10	0.2	68	10	5	14
S	10OS+100OW	8	0.2	40	2	5	14
S	15OS+ 00W	12	0.4	78	12	5	10
S	50W	18	0.2	88	8	5	10
S	100W	10	0.2	86	4	5	8
S	150W	14	0.2	94	12	5	10
S	200W	8	0.2	84	8	5	10
S	250W	20	0.4	94	14	5	10
S	300W	18	0.2	94	8	5	12
S	350W	10	0.2	52	6	5	6
S	400W	8	0.2	56	10	5	14
S	450W	8	0.2	68	6	5	16
S	500W	6	0.2	102	12	5	14
S	550W	10	0.2	80	10	5	12
S	600W	8	0.2	80	12	5	10
S	650W	10	0.2	66	10	5	6
S	700W	10	0.2	92	6	5	10
	BL 00+150S+750W	8	0.2	66	8	5	10

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ROSSBACHER LABORATORY LTD.

2225 S. SPRINGER AVENUE
BURNABY, B.C. V5B 3N1
TEL : (604) 299 - 6910

CERTIFICATE OF ANALYSIS

TO : CHAPLEAU RESOURCES INC
2100 N. 4TH ST.
CRANBROOK, B.C.

PROJECT:
TYPE OF ANALYSIS: GEOCHEMICAL

CERTIFICATE#: 87562
INVOICE#: 70054
DATE ENTERED: 87-09-14
FILE NAME: CHF87562
PAGE # : 4

PRE FIX	SAMPLE NAME	PPM Cu	PPM Ag	PPM Zn	PPM Pb	PPB Au	PPM As
S	BL 00+150S+ 800W	18	0.2	74	12	5	14
S	850W	8	0.2	52	6	5	12
S	900W	14	0.2	60	8	5	8
S	950W	10	0.2	50	6	5	6
S	150S+1000W	8	0.2	46	6	5	8
S	200S+ 00W	16	0.2	114	8	5	10
S	50W	14	0.2	66	6	5	10
S	100W	14	0.2	74	6	5	8
S	150W	18	0.2	58	8	5	4
S	200W	16	0.2	46	4	5	4
S	250W	10	0.2	72	8	5	12
S	300W	12	0.2	50	6	5	12
S	350W	10	0.2	52	8	5	8
S	400W	12	0.2	60	8	5	10
S	450W	16	0.2	60	8	5	6
S	500W	26	0.4	114	30	5	20
S	200S+ 550W	16	0.2	98	8	5	14
S	300S+ 00W	16	0.4	90	16	5	14
S	50W	16	0.2	108	8	5	12
S	100W	14	0.4	76	8	5	8
S	150W	6	0.2	74	16	5	12
S	200W	14	0.2	92	8	5	12
S	250W	16	0.2	74	10	5	6
S	300W	18	0.2	92	15	5	8
S	350W	10	0.2	52	8	5	8
S	400W	10	0.2	64	8	5	4
S	450W	10	0.2	60	6	5	6
S	500W	14	0.2	68	10	5	10
S	300S+ 550W	16	0.2	54	18	5	8
S	350S+ 00W	14	0.2	56	8	5	8
S	50W	14	0.2	76	4	5	12
S	100W	10	0.2	86	4	5	10
S	150W	16	0.2	88	4	5	10
S	200W	10	0.2	72	12	5	10
S	250W	10	0.2	66	8	5	4
S	300W	10	0.2	46	8	5	6
S	350W	6	0.2	56	4	5	4
S	400W	14	0.2	88	10	5	8
S	BL 00+350S+ 450W	14	0.2	50	8	5	6

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2225 S. SPRINGER AVENUE
BURNABY, B.C. V5B 3N1
TEL : (604) 299 - 6910

CERTIFICATE OF ANALYSIS

TO : CHAPLEAU RESOURCES INC
2100 N. 4TH ST.
CRANBROOK, B.C.

PROJECT:

TYPE OF ANALYSIS: GEOCHEMICAL

CERTIFICATE#: 87562
INVOICE#: 70054
DATE ENTERED: 87-09-14
FILE NAME: CHP87562
PAGE # : 5

PREFIX	SAMPLE NAME	PPM Cu	PPM Ag	PPM Zn	PPM Pb	PPB Au	PPM As
S	BL 00+350S+500W	26	0.2	48	8	5	6
S	350S+550W	18	0.2	52	14	5	8
S	400S+ 00W	22	0.2	54	10	5	6
S	50W	14	0.2	88	8	5	10
S	100W	16	0.2	76	10	5	8
S	150W	14	0.2	76	10	5	12
S	200W	16	0.2	96	10	5	10
S	250W	14	0.2	86	22	5	10
S	300W	12	0.2	60	10	5	4
S	350W	12	0.2	44	8	5	8
S	400W	8	0.2	48	8	5	4
S	450W	14	0.2	84	8	5	8
S	500W	16	0.2	56	12	5	4
S	BL 00+400S+550W	18	0.4	62	14	5	12

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BURNABY, B.C. V5B 3N1
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CERTIFICATE OF ANALYSIS

TO : CHAPLEAU RESOURCES LTD.
2100 N. 4th ST.
CRANBROOK, B.C.

PROJECT:
TYPE OF ANALYSIS: GEOCHEMICAL

CERTIFICATE#: 87566
INVOICE#: 80006
DATE ENTERED: 87-10-07
FILE NAME: CHP87566
PAGE # : 1

PRE FIX	SAMPLE NAME	PPM Cu	PPM Ag	PPM Pb	PPB Au	PPM As
A	UB87-01	6	0.2	[illegible]	5	8
A	02	6	0.2	[illegible]	5	6
A	03	6	0.2	[illegible]	5	[illegible]
A	04	14	0.2	[illegible]	1040	[illegible]
A	ELCR 05	36	0.4	[illegible]	3660	[illegible]
A	vein 06	18	0.2	[illegible]	10	[illegible]
A	07	4	0.2	[illegible]	5	4
A	08	4	0.2	[illegible]	5	[illegible]
A	09	18	0.2	[illegible]	440	[illegible]
A	10	28	0.2	[illegible]	5	10
A	11	18	0.2	[illegible]	5	2
A	12	14	0.2	[illegible]	5	2
A	13	22	0.2	[illegible]	5	2
A	14	6	0.2	14	1820	2
A	UB87-15	18	0.2	[illegible]	5	2
A	H-01	4	0.4	[illegible]	5	26
A	H-02	4	0.2	[illegible]	5	26
A	B-01	40	0.4	[illegible]	5	[illegible]
A	W-01	42	0.4	2	250	80

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ROSSBACHER LABORATORY LTD.

2225 S. SPRINGER AVENUE
BURNABY, B.C. V5B 3N1
TEL : (604) 299 - 6910

CERTIFICATE OF ANALYSIS

TO : CHAPLEAU RESOURCES LTD.
2100 N. 4th STREET N.
CRANBROOK, B.C.

TYPE OF ANALYSIS: Au METALLICS

CERTIFICATE#: 87654
PROJECT :
INVOICE# : 80012
PAGE# : 1

SAMPLE NAME	Oz/t -100M	Oz/t +100M	mg.Au +100M	Wt.gm -100M	Wt.gm +100M	Oz/t FINAL
ELCR8-01	0.093	0.058	0.020	230	10.04	0.092
ELCR8-02	0.134	0.278	0.149	238	15.64	0.147
ELCR8-03	0.137	0.150	0.014	191	2.73	0.137
ELCR8-04	0.120	0.076	0.025	225	9.63	0.118
ELCR9-01	0.128	1.230	0.116	201	2.75	0.143
ELCR9-02	0.090	0.349	0.086	212	7.18	0.098
ELCR9-03	0.110	0.136	0.037	228	7.94	0.111
ELCR9-04	0.120	0.052	0.006	193	3.38	0.119
NM87-100-1	0.001	0.001	0.001	137	0.16	0.001
NM87-100-2	0.001	0.001	0.001	129	0.66	0.001
NM87-101-1	0.001	0.001	0.001	124	0.11	0.001
NM87-101-2	0.001	0.001	0.001	110	0.12	0.001
NM87-101-3	0.001	0.001	0.001	82	0.09	0.001
NM87-102-1	0.012	0.001	0.001	178	1.64	0.012
NM87-102-2	0.015	0.001	0.001	139	0.10	0.015
NM87-102-3	0.019	0.001	0.001	103	0.06	0.019

CERTIFIED BY : F. Rossbach

(25)

ROSSBACHER LABORATORY LTD.

2225 S. SPRINGER AVENUE
BURNABY, B.C. V5B 3N1
TEL : (604) 299 - 6910

CERTIFICATE OF ANALYSIS

TO : CHAPLEAU RESOURCES INC.
2100 N. 4TH ST
CRANBROOK, B.C.

PROJECT:
TYPE OF ANALYSIS: GEOCHEMICAL

CERTIFICATE#: 87654.A
INVOICE#: 80050
DATE ENTERED: 87-10-16
FILE NAME: CHP87654.A
PAGE # : 1

PRE FIX	SAMPLE NAME	PPM Cu	PPM Ag	PPM Zn	PPM Pb	PPB Au	PPM As	
S	# 1	4	0.2	44	2	5	16	Palmer Bar Fault
S	# 2	10	0.2	54	4	4700	10	
S	# 3	10	0.2	44	6	40	8	
S	# 4	6	0.2	28	10	5	6	
A	NM 87-100-1	8	0.2	14	8		2	
A	NM 87-101-1	1120	16.4	270	3100		152	
A	NM 87-102-1	1160	100.0	118	>10000		200	

Nat M

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(26)

ROSSBACHER LABORATORY LTD.

2225 S. SPRINGER AVENUE
BURNABY, B.C. V5B 3N1
TEL : (604) 299 - 6910

CERTIFICATE OF ANALYSIS

TO : CHAPLEAU RESOURCES INC.
2100 N. 4TH ST.
CRANBROOK, B.C.

PROJECT:
TYPE OF ANALYSIS: GEOCHEMICAL

CERTIFICATE#: 87312
INVOICE#: 7757
DATE ENTERED: 87-09-15
FILE NAME: CHA87312
PAGE # : 1

PRE FIX	SAMPLE NAME	PPM Cu	PPM Ag	PPM Pb	PPB Au	
A	R 87-01	34	0.2	34	5	
A	R 87-02	18	0.2	20	5	
A	L.F. 87-01	12000	2.0	2	5	
A	L.J. 87-01	80	4.2	36	50	— West Kootenay Cream Creek

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(27)a

ROSSBACHER LABORATORY LTD.

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BURNABY, B.C. V5B 3N1
TEL : (604) 299 - 6910

CERTIFICATE OF ANALYSIS

TO: CHAPLEAU RESOURCES LTD.,
2100 N 4TH ST.,
CRANBROOK , B.C.

PROJECT:
TYPE OF ANALYSIS: GEOCHEMICAL

CERTIFICATE#: 87733 .A
INVOICE#: 80125
DATE ENTERED: 87-10-29
FILE NAME: CHP87733 .A
PAGE # : 1

PRE FIX	SAMPLE NAME	PPM Cu	PPM Ag	PPM Zn	PPM Pb	PPB Au	PPM As	
A	Nike adit DUMP A	4	0.2	24	6		6	
A	DUMP B	4	0.2	6	2		4	
A	DUMP C	18	0.2	2	4		116	*
A	DUMP D	4	0.2	8	2		2	
A	BUCK AD87-01	4	0.2	8	2		2	
A	BUCK AD87-02	16	0.2	10	2		2	
A	BUCK AD87-03	2	0.2	28	2		6	
A	Nike adit 91	2	0.2	10	2		2	
A	96	2	0.2	8	2		4	
A	98	4	0.2	22	4		10	
A	99	6	0.2	8	12		4	
A	101	16	0.2	10	16		16	
A	102	12	0.2	12	14		12	
A	104	30	0.2	18	26		10	
A	105	60	0.2	40	6		10	
A	106	18	0.2	16	36		22	
A	Palmer Bar BL6-10	2	0.2	4	4		2	
A	Baseline 6 BL6-11	22	0.2	26	4		12	
A	LDM-5	>10000	3.0	30	16		2	
A	NEG-100	24	0.2	36	94		12	
A	NEG-101	34	1.4	28	2200		2	
A	NEG-102	10	0.2	38	70		2	
A	NEG-103	14	0.2	60	74		2	
A	NEG-104	30	0.2	28	184		2	
A	RA-3	60	0.2	50	4		2	
A	RA-3A	16	0.2	6	2		2	
A	W-01	40	0.2	70	2		600	
A	W-02	510	0.2	54	2		250	
A	W-03	10	0.2	16	80		12	
A	BSW 3 W-04	8	0.2	38	38		12	
A	Wuhe Creek BL3 201S	12	0.2	62	70	5	2	
A	ADIT ENTRANCE	4	0.2	8	2		2	

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ROSSBACHER LABORATORY LTD.

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CERTIFICATE OF ANALYSIS

TO : CHAPLEAU RESOURCES LTD.,
2100 N 4TH ST.,
CRANBROOK, B.C.

PROJECT:
TYPE OF ANALYSIS: GEOCHEMICAL

CERTIFICATE#: 87736
INVOICE#: 80127
DATE ENTERED: 87-10-29
FILE NAME: CHP87736
PAGE # : 1

PRE FIX	SAMPLE NAME	PPM Cu	PPM Ag	PPM Zn	PPM Pb	PPB Au	PPM As
S	BL2+ 00 + 50E	16	0.2	56	10	5	6
S	Wuho Creek 50W	26	0.2	102	32	5	4
S	100W	14	0.2	54	14	5	2
S	BL2+ 00 +150W	10	0.2	30	10	5	8
S	BL2+100N+100E	14	0.2	200	20	5	8
S	BL2+100N+ 50E	14	0.2	110	66	5	8
S	BSW BL2+100N+ 50W	10	0.2	128	24	5	2
S	100W	14	0.2	90	16	5	2
S	150W	12	0.2	96	16	5	4
S	BSW BL2+100N+200W	12	0.2	74	14	5	8
S	BL2+100S+100E	6	0.2	40	12	5	2
S	50E	10	0.2	62	12	5	6
S	50W	12	0.2	90	22	5	4
S	100W	16	0.2	66	26	5	6
S	BL2+100S+150W	20	0.2	86	42	5	8
S	BL2+150S+ 00	10	0.2	68	14	5	6
S	BL2+200N+100E	14	0.2	104	22	5	4
S	50E	14	0.2	114	18	5	2
S	50W	12	0.2	162	22	5	8
S	100W	6	0.2	104	12	5	6
S	150W	8	0.2	118	14	5	6
S	BL2+200N+200W	8	0.2	68	10	5	4
S	BL2+200S+100E	8	0.2	72	20	5	10
S	50E	10	0.2	70	14	5	4
S	00	14	0.2	78	24	5	8
S	50W	8	0.2	70	18	5	2
S	100W	10	0.2	82	26	5	4
S	BL2+200S+150W	20	0.2	142	36	5	12
S	BL2+300N+100E	14	0.2	112	22	5	6
S	50E	14	0.2	94	12	5	4
S	Wuho Creek 50W	8	0.2	84	10	5	2
S	100W	10	0.2	108	12	5	2
S	150W	8	0.2	160	20	5	2
S	BL2+300N+200W	8	0.2	80	12	5	2
S	BL2+400N+100E	12	0.2	100	14	5	4
S	50E	10	0.2	130	12	5	2
S	50W	8	0.2	80	8	5	2
S	100W	8	0.2	54	2	5	6
S	150W	18	0.2	144	20	5	6
S	BL2+400N+200W	16	0.2	76	8	5	6

CERTIFIED BY : J. Rossbach

ROSSBACHER LABORATORY LTD.

2235 S. SPRINGER AVENUE
BURNABY, B.C. V5B 3N1
TEL : (604) 299 - 6910

CERTIFICATE OF ANALYSIS

: CHAPLEAU RESOURCES LTD.,
2100 N 4TH ST.,
CRANBROOK, B.C.

PROJECT:
TYPE OF ANALYSIS: GEOCHEMICAL

CERTIFICATE#: 87736
INVOICE#: 80127
DATE ENTERED: 87-10-29
FILE NAME: CHP87736
PAGE # : 2

PRE FIX	SAMPLE NAME	PPM Cu	PPM Ag	PPM Zn	PPM Pb	PPB Au	PPM As
S	BL2+500N+ 50W	12	0.2	118	10	5	4
S	Wuho Creek 100W	10	0.2	92	28	5	2
S	150W	12	0.2	86	6	5	4
S	BL2+500N+200W	14	0.2	78	6	5	10

CERTIFIED BY : J. Rossbach

(29)a

ROSSBACHER LABORATORY LTD.

2225 S. SPRINGER AVENUE
BURNABY, B.C. V5B 3N1
TEL : (604) 299 - 6910

CERTIFICATE OF ANALYSIS

TO : CHAPLEAU RESOURCES LTD.,
2100 N 4TH ST.,
CRANBROOK, B.C.

TYPE OF ANALYSIS: Au METALLICS

CERTIFICATE#: 87733.A
PROJECT :
INVOICE# : 80126
PAGE# : 1

SAMPLE NAME	Oz/t -100M	Oz/t +100M	mg.Au +100M	Wt.gm -100M	Wt.gm +100M	Oz/t FINAL
No Read DUMP A	0.001	0.001	0.001	196	16.95	0.001
DUMP B	0.001	0.001	0.001	192	2.86	0.001
DUMP C	0.001	0.001	0.001	238	2.41	0.001
DUMP D	0.001	0.001	0.001	241	4.34	0.001
BUCK AD87-01	0.001	0.029	0.004	238	4.00	0.001
BUCK AD87-02	0.001	0.001	0.001	209	1.37	0.001
BUCK AD87-03	0.001	0.001	0.001	92	0.91	0.001
Noke 91	0.001	0.001	0.001	198	0.88	0.001
adit 96	0.001	0.001	0.001	237	13.10	0.001
98	0.001	0.001	0.001	211	2.86	0.001
99	0.001	0.001	0.001	214	1.67	0.001
101	0.014	0.001	0.001	213	0.83	0.014
102	0.001	0.001	0.001	250	2.43	0.001
104	0.005	0.001	0.001	228	2.24	0.005
105	0.001	0.001	0.001	224	8.97	0.001
106	0.022	0.001	0.001	241	2.01	0.022
Base Line 6 BL6-10	0.001	0.001	0.001	189	0.54	0.001
almon Bar BL6-11	0.001	0.001	0.001	229	3.69	0.001
LDM-5	0.001	0.001	0.001	222	1.79	0.001
NEG-100	0.001	0.001	0.001	222	0.94	0.001
NEG-101	0.001	0.001	0.001	206	1.21	0.001
NEG-102	0.001	0.001	0.001	195	1.02	0.001
NEG-103	0.001	0.001	0.001	207	1.43	0.001
NEG-104	0.001	0.001	0.001	248	2.26	0.001
Rocky RA-3	0.001	0.001	0.001	249	5.95	0.001
RA-3A	0.001	0.001	0.001	198	0.77	0.001
DIORITE W-01	0.008	0.001	0.001	222	1.87	0.008
Sill W-02	0.032	2.709	0.183	232	1.97	0.055
W-03	0.001	0.001	0.001	209	1.26	0.001
W-04 country	0.001	0.001	0.001	197	0.67	0.001
ADIT ENTRANCE	0.001	0.001	0.001	227	1.80	0.001

.01

N.E

CERTIFIED BY : C. Rossbacher

(30)a

ROSSBACHER LABORATORY LTD.

2225 S. SPRINGER AVENUE
BURNABY, B.C. V5B 3N1
TEL : (604) 299 - 6910

CERTIFICATE OF ANALYSIS

TO : CHAPLEAU RESOURCES LTD.,
2100 N 4TH ST.,
CRANBROOK, B.C.

PROJECT:
TYPE OF ANALYSIS: GEOCHEMICAL

CERTIFICATE#: 87728
INVOICE#: 80122
DATE ENTERED: 87 10-29
FILE NAME: CHP87728
PAGE # : 1

PRE FIX	SAMPLE NAME	PPM Cu	PPM Ag	PPM Zn	PPM Pb	PPB Au	PPM As
S	Wk. BSW+100N+200E	16	0.2	108	18	5	10
S	Baseline 3 150E	14	0.2	74	16	5	12
S	BSW 3 100E	10	0.2	80	8	5	10
S	50E	14	0.2	64	6	5	6
S	50W	14	0.2	82	14	5	8
S	100W	8	0.2	64	22	5	4
S	150W	10	0.2	56	30	5	8
S	200W	12	0.2	58	16	5	6
S	BSW+100N+250W	8	0.2	48	6	5	2
S	BSW+200N+ 50E	10	0.2	92	8	5	4
S	100E	10	0.2	74	10	5	6
S	150E	8	0.2	34	8	5	6
S	BSW+200N+200E	8	0.2	98	10	5	4
S	BSW+ 00 +200E	12	0.2	50	8	5	6
S	150E	12	0.2	90	12	5	6
S	100E	14	0.2	60	12	5	4
S	50E	12	0.2	72	8	5	4
S	50W	10	0.2	40	12	5	2
S	100W	20	0.2	38	20	5	8
S	150W	12	0.2	62	26	5	12
S	200W	10	0.2	60	8	5	4
S	BSW+ 00 +250W	8	0.2	38	10	5	4
S	BSW+100S+200E	8	0.2	54	12	5	6
S	150E	8	0.2	50	6	5	6
S	100E	12	0.2	76	12	5	6
S	50E	10	0.2	52	8	5	2
S	00	10	0.2	54	26	5	2
S	50W	4	0.2	30	2	5	4
S	100W	10	0.2	72	12	5	8
S	150W	10	0.2	60	10	5	6
S	200W	10	0.2	62	12	5	2
S	BSW+100S+250W	8	0.2	36	6	5	6
S	BSW+200S+200E	14	0.2	62	12	5	4
S	150E	12	0.2	54	8	5	2
S	100E	4	0.2	74	4	5	8
S	50E	8	0.2	58	12	5	6
S	00	6	0.2	32	6	5	6
S	50W	10	0.2	66	10	5	2
S	BSW+200S+100W	10	0.2	56	14	5	4
S	BSW+200S+200E	18	0.2	90	20	5	6

CERTIFIED BY : A. Rossbach

ROSSBACHER LABORATORY LTD.

2225 S. SPRINGER AVENUE
BURNABY, B.C. V5B 3N1
TEL : (604) 299 - 6910

CERTIFICATE OF ANALYSIS

TO : CHAPLEAU RESOURCES LTD.,
2100 N 4TH ST.,
CRANBROOK, B.C.

PROJECT:
TYPE OF ANALYSIS: GEOCHEMICAL

CERTIFICATE#: 87728
INVOICE#: 8012?
DATE ENTERED: 87-10-29
FILE NAME: CHP87728
PAGE # : 2

PRE FIX	SAMPLE NAME	PPM Cu	PPM Ag	PPM Zn	PPM Pb	PPB Au	PPM As
S	BSW+300S+150E	12	0.2	60	10	5	4
S	100E	10	0.2	54	10	5	?
S	50E	18	0.2	60	10	5	6
S	00	14	0.2	58	10	5	?
S	50W	16	0.2	56	12	5	2
S	BSW+300S+100W	20	0.2	64	14	5	8

CERTIFIED BY : F. Rossbach

ROSSBACHER LABORATORY LTD.

2225 S. SPRINGER AVENUE
BURNABY, B.C. V5B 3N1
TEL : (604) 299 - 6910

CERTIFICATE OF ANALYSIS

TO: CHAPLEAU RESOURCES LTD.,
2100 N 4TH ST.,
CRANBROOK, B.C.

PROJECT:
TYPE OF ANALYSIS: GEOCHEMICAL

CERTIFICATE#: 87732
INVOICE#: 80124
DATE ENTERED: 87-10-29
FILE NAME: CHP87732
PAGE # : 1

PRE FIX	SAMPLE NAME	PPM Cu	PPM Ag	PPM Zn	PPM Pb	PPB Au	PPM As
S	BSW BL1+ 50N	14	0.2	96	10	5	14
S	BSW BL2+100S	16	0.2	64	10	5	8
S	BSW BL2+ 50S	22	0.2	152	22	5	17
S	00	16	0.2	88	16	5	12
S	50N	MISSING					
S	100N	14	0.2	114	16	5	10
S	150N	22	0.2	98	6	5	8
S	Wuho Creek. 200N	12	0.2	88	6	5	18
S	250N *	16	0.2	160	78	5	26
S	300N	20	0.2	82	8	5	8
S	350N	6	0.2	88	6	5	6
S	400N	8	0.2	68	4	5	8
S	450N	10	0.2	94	10	5	10
S	BSW BL0+500N	8	0.2	116	6	5	8
S	BSW +5N+ 50E	12	0.2	88	8	5	6
S	BSW +5N+100E	12	0.2	76	4	5	10

CERTIFIED BY : R. Rossbacher

3-7a

ROSSBACHER LABORATORY LTD.

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TEL : (604) 299 - 6910

CERTIFICATE OF ANALYSIS

TO : CHAPLEAU RESOURCES LTD.,
2100 N 4TH ST.,
CRANBROOK, B.C.

PROJECT: BUCK PROP
TYPE OF ANALYSIS: GEOCHEMICAL

CERTIFICATE#: 87720
INVOICE#: 80105
DATE ENTERED: 87-10-28
FILE NAME: CHP87720
PAGE # : 1

PREFIX	SAMPLE NAME	PPM Cu	PPM Ag	PPM Zn	PPM Pb	PPB Au	PPM As
S	NOKE BL1+50S+75W	22	0.2	30	4	5	10
S	50W	12	0.2	40	8	5	10
S	25W	14	0.2	46	4	5	14
S	00	12	0.2	66	6	5	10
S	25E	14	0.2	114	14	5	10
S	50E	12	0.2	86	14	5	10
S	NOKE BL1+50S+75E	8	0.2	54	4	5	8
S	NOKE BL1+100S+75W	34	0.2	42	18	5	8
S	50W	16	0.2	40	10	5	12
S	25W	10	0.2	54	8	5	8
S	00	6	0.2	38	6	30	6
S	25E	8	0.2	36	6	5	6
S	50E	16	0.2	66	10	5	12
S	NOKE BL1+100S+75E	8	0.2	44	8	5	10
S	NOKE BL1+150S+75WA	18	0.2	40	4	5	10
S	75WB	10	0.2	46	6	5	8
S	50W	10	0.2	24	2	5	2
S	25W	6	0.2	28	2	5	4
S	00	8	0.2	32	8	5	2
S	25E	10	0.2	34	4	5	10
S	NOKE BL1+150S+50E	20	0.2	48	10	5	8
S	BSW BL1+300N	18	0.2	58	8	5	8
S	250N	14	0.2	78	10	5	6
S	200N	10	0.2	60	8	5	6
S	150N	14	0.2	76	10	5	4
S	100N	16	0.2	84	16	5	8
S	50N	12	0.2	62	8	5	2
S	00A	42	0.2	80	40	5	14
S	BSW BL1+ 00B	44	0.2	112	64	5	18
S	BSW BL1+400N	18	0.2	56	16	5	10
S	350N	26	0.2	82	18	5	10
S	300N	30	0.2	76	22	5	16
S	250N	12	0.2	30	12	5	6
S	200N	20	0.2	82	14	5	6
S	150N	16	0.2	44	10	5	8
S	100N	10	0.2	62	12	5	6
S	BSW BL3+ 50N	14	0.2	56	20	5	4
S	BSW3 200N+100W	14	0.2	74	12	5	2
S	BSW 200N+ 50W	16	0.2	100	20	5	6
S	BSW 300N+100W	16	0.2	82	18	5	8

Woko Creek

BSW 3
Woko Creek

CERTIFIED BY : A. Rossbach

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ROSSBACHER LABORATORY LTD.

2225 S. SPRINGER AVENUE
BURNABY, B.C. V5B 3N1
TEL : (604) 299 - 6910

CERTIFICATE OF ANALYSIS

TO : CHAPLEAU RESOURCES LTD.,
2100 N 4TH ST.,
CRANBROOK, B.C.

PROJECT: BUCK PROP
TYPE OF ANALYSIS: GEOCHEMICAL

CERTIFICATE#: 87720
INVOICE#: 80105
DATE ENTERED: 87-10-28
FILE NAME: CHP87720
PAGE # : 2

PRE FIX	SAMPLE NAME	PPM Cu	PPM Ag	PPM Zn	PPM Pb	PPB Au	PPM As
S	BSW3 300N+ 50W	10	0.2	66	8	5	6
S	50E	10	0.2	108	16	5	8
S	100E	10	0.2	80	12	5	4
S	150E	12	0.2	62	8	5	4
S	BSW3 300N+200E	12	0.2	98	8	5	6
S	BSW3 400N+100W	10	0.2	68	8	5	8
S	50W	12	0.2	46	6	5	6
S	50E	8	0.2	58	4	5	4
S	100E	12	0.2	52	4	5	2
S	150E	12	0.2	104	14	5	2
S	BSW3 400N+200E	14	0.2	70	18	5	4

BSW 3
Woho Cr

CERTIFIED BY : J. Rossbacher

ROSSBACHER LABORATORY LTD.

2225 S. SPRINGER AVENUE
BURNABY, B.C. V5B 3N1
TEL : (604) 299 - 6910

CERTIFICATE OF ANALYSIS

TO: CHAPLEAU RESOURCES LTD.,
2100 N 4TH ST.,
CRANBROOK, B.C.

CERTIFICATE#: 87747
PROJECT :
INVOICE# : 80153
PAGE# : 1

TYPE OF ANALYSIS: Au METALLICS

SAMPLE NAME	Oz/t -100M	Oz/t +100M	mg.Au +100M	Wt.gm -100M	Wt.gm +100M	Oz/t FINAL
WU-S-1	0.001	0.001	0.001	198	5.71	0.001
WU-S-2	0.006	0.001	0.001	207	1.47	0.006
WU-S-3	0.001	0.001	0.001	222	2.08	0.001
WU-S-4	0.001	0.001	0.001	242	10.07	0.001
WU-S-5	0.001	0.001	0.001	233	3.21	0.001
WU-S-6	0.001	0.001	0.001	229	11.15	0.001
WU-S-7	0.001	0.001	0.001	240	2.90	0.001
WU-S-8	0.001	0.001	0.001	218	1.61	0.001

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(34)

ROSSBACHER LABORATORY LTD.

2035 E. SPRINGER AVENUE
BURNABY, B.C. V5B 3N1
TEL : (604) 299 - 6910

CERTIFICATE OF ANALYSIS

TO: CHAPLEAU RESOURCES LTD.,
2100 N 4TH ST.,
CRANBROOK, B.C.

PROJECT:
TYPE OF ANALYSIS: GEOCHEMICAL

CERTIFICATE#: 87747.A
INVOICE#: 80152
DATE ENTERED: 87-11-02
FILE NAME: CHP87747.A
PAGE # : 1

PRE FIX	SAMPLE NAME	PPM Cu	PPM Ag	PPM Zn	PPM Pb	PPM As
A	WU-S-1	2	0.2	44	2	2
A	WU-S-2	2	0.2	42	10	2
A	WU-S-3	2	0.2	18	2	2
A	WU-S-4	2	0.2	30	4	4
A	WU-S-5	2	0.2	28	2	2
A	WU-S-6	2	0.2	32	2	6
A	WU-S-7	2	0.2	32	2	4
A	WU-S-8	2	0.2	34	2	6

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ROSSBACHER LABORATORY LTD.

2225 S. SPRINGER AVENUE
BURNABY, B.C.   V5B 3N1
TEL : (604) 299 - 6910

CERTIFICATE OF ANALYSIS

TO : CHAPLEAU RESOURCES LTD.,
2100 N 4TH ST.,
CRANBROOK, B.C.

CERTIFICATE#: 87754
INVOICE#: 80157
DATE ENTERED: 87-11-03
FILE NAME: CHP87754
PAGE # : 1

PROJECT:
TYPE OF ANALYSIS: GEOCHEMICAL

PRE FIX	SAMPLE NAME	PPM Cu	PPM Ag	PPM Zn	PPM Pb	PPB Au	PPM As
A	L-87-01	6	0.2	29	2	5	6
A	L-87-02	34	0.2	172	[illegible]	5	89
A	L-87-03	6	0.2	6	2	7	8
A	L-87-04	6	0.2	10	4	5	6
A	L-87-05	8	0.2	24	2	5	28
A	L-87-06	6	0.2	6	2	5	35
A	L-87-07	12	0.2	40	[illegible]	5	30
A	L-87-08	16	0.2	266	238	5	10
A	L-87-09	36	0.2	500	2	5	4
A	L-87-10	24	0.2	36	20	5	62

CERTIFIED BY : J. Rossbacher

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ROSSBACHER LABORATORY LTD.

2225 S. SPRINGER AVENUE
BURNABY, B.C. V5B 3N1
TEL : (604) 299 - 6910

CERTIFICATE OF ANALYSIS

TO : CHAMPION RESOURCES LTD.
2100 N 4TH ST.
CRANBROOK B.C.

TYPE OF ANALYSIS: Au METALLICS

CERTIFICATE#: 37[illegible]9
PROJECT :
INVOICE# : [illegible]
PAGE# : 1

SAMPLE NAME	Oz/t -100M	Oz/t +100M	mg.Au +100M	Wt.gm -100M	Wt.gm +100M	Oz/t FINAL
11-4EL-1A	0.022	0.001	0.001	291	1.40	0.022
1B	0.018	0.001	0.001	188	0.47	0.018
1C	0.020	0.001	0.001	165	0.41	0.020
11-4EL-1D	0.029	1.800	0.029	186	2.47	0.033
11-4EL-2A	0.001	0.001	0.001	279	14.17	0.001
2B	0.001	0.001	0.001	271	14.13	0.001
2C	0.001	0.001	0.001	272	14.82	0.001
11-4EL-2D	0.001	0.001	0.001	760	1.84	0.001
11-4EL-3A	0.452	40.186	1.240	259	8.90	0.575
3B	0.536	29.569	0.588	284	3.58	0.595
3C	0.630	3.757	0.389	291	3.02	0.642
11-4EL-3D	0.515	3.893	1.240	251	9.29	0.636
11-4EL-4A	0.179	6.303	0.389	274	1.80	0.219
4B	0.174	0.841	0.225	302	7.80	0.191
4C	0.206	0.712	0.273	248	11.19	0.228
11-4EL-4D	0.164	2.137	0.126	258	1.72	0.177
11-4EL-5A	0.001	0.001	0.001	251	13.16	0.001
5B	0.001	0.001	0.001	297	1.22	0.001
5C	0.001	0.001	0.001	260	10.54	0.001
11-4EL-5D	0.002	0.001	0.001	703	2.49	0.002
11-4EL-6A	0.001	0.001	0.001	255	9.07	0.001
6B	0.001	0.001	0.001	269	9.79	0.001
6C	0.001	0.001	0.001	259	12.27	0.001
11-4EL-6D	0.001	0.001	0.001	590	0.96	0.001
11-4EL-7A	0.001	0.001	0.001	243	7.44	0.001
7B	0.001	0.001	0.001	257	10.55	0.001
7C	0.001	0.001	0.001	251	7.76	0.001
11-4EL-7D	0.001	0.001	0.001	262	12.03	0.001
11-4EL-8A	0.001	0.001	0.001	260	10.93	0.001
8B	0.001	0.001	0.001	260	13.17	0.001
8C	0.001	0.001	0.001	242	7.46	0.001
11-4EL-8D	0.001	0.001	0.001	254	13.28	0.001
11-4EL-9A	0.001	0.001	0.001	264	13.04	0.001
9B	0.001	0.001	0.001	267	12.09	0.001
9C	0.001	0.001	0.001	280	5.33	0.001
11-4EL-9D	0.001	0.001	0.001	267	13.15	0.001
11-4EL-10A	0.001	0.001	0.001	277	8.12	0.001
10B	0.001	0.001	0.001	279	12.63	0.001
10C	0.001	0.001	0.001	263	12.77	0.001
11-4EL-10D	0.001	0.001	0.001	257	4.39	0.001

CERTIFIED BY : F. Rossbach

(36)

ROSSBACHER LABORATORY LTD.

2225 S SPRINGER AVENUE
BURNABY, B.C. V5B 3N1
TEL : (604) 299 - 6910

CERTIFICATE OF ANALYSIS

O: [illegible] RESOURCES LTD.
[illegible] N. 4TH ST.
[illegible] B.C.

CERTIFICATE#: [illegible]
PROJECT : [illegible]
INVOICE# : [illegible]
PAGE# : [illegible]

TYPE OF ANALYSIS: Au METALLICS

SAMPLE NAME	Oz/t -100M	Oz/t +100M	mg.Au +100M	[illegible]	Wt.gm +100M	Oz/t FINAL
[illegible]-1A	0.001	0.001	0.001	[illegible]	4.17	[illegible]
1B	0.001	0.001	0.001	[illegible]	[illegible]	[illegible]
1C	0.001	0.001	0.001	[illegible]	[illegible]	[illegible]
[illegible]-1D	0.001	0.001	0.001	[illegible]	[illegible]	[illegible]
[illegible]-2A	0.001	0.001	0.001	[illegible]	[illegible]	[illegible]
2B	0.001	0.001	0.001	[illegible]	[illegible]	[illegible]
2C	0.001	0.001	0.001	[illegible]	6.18	[illegible]
[illegible] 2D	0.001	0.001	0.001	[illegible]	[illegible]	[illegible]
[illegible] 3A	0.001	0.001	0.001	[illegible]	3.62	0.001
3B	0.001	0.001	0.001	[illegible]	2.18	[illegible]
3C	0.001	0.001	0.001	[illegible]	2.47	[illegible]
[illegible]-3D	0.001	0.001	0.001	[illegible]	1.92	0.001
[illegible]-4A	0.001	0.001	0.001	[illegible]	2.75	[illegible]
4B	0.002	0.001	0.001	[illegible]	3.54	0.002
4C	0.001	0.001	0.001	[illegible]	[illegible]	[illegible]
[illegible]-4D	0.002	0.001	0.001	[illegible]	4.14	[illegible]
[illegible]-5A	0.006	0.001	0.001	[illegible]	7.92	[illegible]
5B	0.009	0.001	0.001	[illegible]	1.80	[illegible]
5C	0.004	0.001	0.001	[illegible]	5.31	0.004
[illegible]-5D	0.004	0.001	0.001	[illegible]	[illegible]	[illegible]
[illegible] 87-01A	0.001	0.001	0.001	[illegible]	1.10	[illegible]
01B	0.001	0.001	0.001	[illegible]	1.46	0.001
[illegible]	0.001	0.001	[illegible]	[illegible]	0.16	[illegible]
[illegible]	0.001	0.001	0.001	[illegible]	0.32	[illegible]
[illegible]	0.001	0.001	0.001	[illegible]	0.53	[illegible]
02B	0.002	0.001	0.001	[illegible]	[illegible]	[illegible]
02C	0.001	0.001	0.001	[illegible]	1.26	0.001
[illegible] 87-02D	0.001	0.001	0.001	[illegible]	[illegible]	[illegible]
[illegible] 87-03A	0.002	0.001	0.001	[illegible]	1.03	0.002
03B	0.002	0.001	0.001	[illegible]	[illegible]	[illegible]
03C	0.002	0.001	0.001	[illegible]	0.81	[illegible]
[illegible] 87-03D	0.005	0.001	0.001	[illegible]	[illegible]	[illegible]
ELLIMA	0.001	0.001	0.001	[illegible]	1.02	0.001
ELLIMB	0.001	0.001	0.001	[illegible]	1.17	0.001
ELLIMC	0.001	0.001	0.001	[illegible]	1.58	0.001
ELLIMD	0.001	0.001	0.001	[illegible]	0.44	0.001

Hanging Pit

Quartz Pit

CERTIFIED BY : J. Rossbach

(37)

ROSSBACHER LABORATORY LTD.

2225 S. SPRINGER AVENUE
BURNABY, B.C. V5B 3N1
TEL : (604) 299 - 6910

CERTIFICATE OF ANALYSIS

TO : CHAPLEAU RESOURCES LTD.
2100 N 4TH ST.
CRANBROOK B.C.

PROJECT:
TYPE OF ANALYSIS: GEOCHEMICAL

CERTIFICATE#: 87837.A
INVOICE#: 80258
DATE ENTERED: 87-12-02
FILE NAME: CHP87837.A
PAGE # : 1

PRE FIX	SAMPLE NAME	PPM Cu	PPM Ag	PPM Zn	PPM Pb	PPM As	
A	711-10-6A	40	0.2	48	2	2	Lim. Quartz
A	711-10-6B	16	0.2	14	2	2	
A	711-11-1	26	0.2	56	14	6	Soil
A	711-11-2	20	0.2	54	12	4	Soil
A	711-11-3	16	0.2	48	10	8	Soil
A	711-11-4	24	0.2	174	2	8	Diorite float
A	711-18-1	14	0.2	48	8	4	Soil
A	711-18-2	8	0.2	36	4	10	Soil
A	711-18-3	16	0.2	50	6	14	Soil
A	711-19-3	6	0.2	40	4	10	Quartz vein.
A	BK VEIN A	6	0.2	12	2	14	
A	BK VEIN B	4	0.2	10	2	6	
A	ELCR COUNTRY	38	0.2	24	2	6	
A	RA-A	4	0.2	8	2	2	

11-5
11-6

CERTIFIED BY : A. Rossbach

370

ROSSBACHER LABORATORY LTD.

[illegible] SPRINGER AVENUE
BURNABY, B.C. V5B 3N1
TEL : (604) 299 - 6910

CERTIFICATE OF ANALYSIS

TO : [illegible]

PROJECT:
TYPE OF ANALYSIS: GEOCHEMICAL

CERTIFICATE#: [illegible]
INVOICE#: [illegible]
DATE ENTERED: [illegible]
FILE NAME: [illegible]
PAGE # : [illegible]

PRE FIX	SAMPLE NAME	PPM Cu	PPM Ag	PPM Zn	PPM Pb	PPB Au	PPM As
R	[illegible]	1	[illegible]			[illegible]	1
		14	[illegible]			[illegible]	
		13	[illegible]			[illegible]	
		16	[illegible]				
		[illegible]	[illegible]				
		10	[illegible]				
		12	[illegible]				

CERTIFIED BY : [illegible]

(39)

ROSSBACHER LABORATORY LTD.

2225 S. SPRINGER AVENUE
BURNABY, B.C. V5B 3N1
TEL : (604) 299 - 6910

CERTIFICATE OF ANALYSIS

TO : CHAPLEAU RESOURCES LTD.
2100 N 4TH ST.
CRANBROOK B.C.

PROJECT:
TYPE OF ANALYSIS: GEOCHEMICAL

CERTIFICATE#: 87809.A
INVOICE#: 80240
DATE ENTERED: 87-11-26
FILE NAME: CHP87809.A
PAGE # : 1

PRE FIX	SAMPLE NAME	PPM Cu	PPM Zn	PPM Pb	PPM Bi	PPM As
A	11-4EL-1A	66	22	16	2	2
A	1B	58	14	18	2	2
A	1C	58	14	10	2	2
A	11-4EL-1D	60	12	10	2	2
A	11-4EL-2A	36	6	4	2	2
A	2B	44	6	4	2	2
A	2C	32	4	2	2	2
A	11-4EL-2D	34	4	18	2	2
A	11-4EL-3A	434	24	166	142	2
A	3B	466	26	172	168	2
A	3C	418	24	162	134	2
A	11-4EL-3D	414	24	150	154	2
A	11-4EL-4A	328	20	40	20	2
A	4B	350	22	34	20	2
A	4C	314	20	24	20	2
A	11-4EL-4D	318	20	30	20	2
A	11-4EL-5A	26	8	2	4	2
A	5B	28	8	4	2	2
A	5C	26	8	2	2	2
A	11-4EL-5D	26	8	2	2	2
A	11-4EL-6A	34	6	2	2	2
A	6B	34	8	2	2	2
A	6C	32	8	2	2	2
A	11-4EL-6D	32	6	4	2	2
A	11-4EL-7A	32	12	2	2	2
A	7B	36	10	2	2	2
A	7C	34	10	2	2	2
A	11-4EL-7D	32	10	2	2	2
A	11-4EL-8A	20	10	2	2	2
A	8B	20	10	2	2	2
A	8C	16	8	2	2	2
A	11-4EL-8D	20	10	2	2	2
A	11-4EL-9A	10	6	2	2	2
A	9B	10	6	2	2	2
A	9C	10	8	6	2	2
A	11-4EL-9D	10	8	2	2	2
A	11-4EL-10A	14	6	2	2	2
A	10B	14	6	2	2	2
A	10C	12	6	2	2	2
A	11-4EL-10D	16	8	2	2	2

CERTIFIED BY : J. Rossbach

ROSSBACHER LABORATORY LTD.

2225 S. SPRINGER AVENUE
BURNABY, B.C. V5B 3N1
TEL : (604) 299 - 6910

CERTIFICATE OF ANALYSIS

TO : CHAPLEAU RESOURCES LTD.
2100 N. 4TH STREET
CRANBROOK, B.C.

TYPE OF ANALYSIS: Au METALLICS

CERTIFICATE#: 87837.B
PROJECT :
INVOICE# : 80351
PAGE# : 1

SAMPLE NAME		Oz/t -100M	Oz/t +100M	mg.Au +100M	Wt.gm -100M	Wt.gm +100M	Oz/t FINAL	
TRCH 16 711-10-6A		0.001	0.001	0.001	152	5.23	0.001	
711-10-6B		0.001	0.001	0.001	183	7.25	0.001	
TRCH 20 711-11-01		0.001	0.001	0.001	198	2.35	0.001	
21 711-11-02		0.001	0.001	0.001	176	4.32	0.001	
22 711-11-03		0.001	0.001	0.001	186	12.68	0.001	
23 711-11-04	5,6	0.001	0.001	0.001	209	2.56	0.001	
Buck TR. 1 711-18-01		0.001	0.001	0.001	176	4.65	0.001	
1 711-18-02	9,10	0.001	0.001	0.001	201	8.23	0.001	
1 711-18-03	C, 4,5,6,7,8	0.001	0.001	0.001	216	16.20	0.001	
Pit 2 711-19-03	1, 2, 4	0.001	0.001	0.001	195	9.25	0.001	
? BK VEIN A		0.001	0.001	0.001	210	6.32	0.001	?
? BK VEIN B		0.001	0.001	0.001	198	5.36	0.001	?
ELCR COUNTRY		0.001	0.001	0.001	203	4.23	0.001	?
RA - A		0.001	0.001	0.001	189	14.20	0.001	?

CERTIFIED BY : J. Rossbach

ROSSBACHER LABORATORY LTD.

2225 S. SPRINGER AVENUE
BURNABY, B.C. V5B 3N1
TEL : (604) 299 - 6910

CERTIFICATE OF ANALYSIS

TO : CHAPLEAU RESOURCES LTD.,
2100 N 4TH ST.,
CRANBROOK, B.C.
PROJECT:
TYPE OF ANALYSIS: GEOCHEMICAL

CERTIFICATE#: 87896.A
INVOICE#: 80345
DATE ENTERED: 88-01-06
FILE NAME: CHP87896.A
PAGE # : 1

PRE FIX	SAMPLE NAME	PPM Cu	PPM Zn	PPM Bi	PPM As	
A	Buckpits 26655	2	4	2	8	limonite quartz
A	26656	2	4	2	10	
A	26657	2	2	2	14	
A	26658	2	2	2	10	

CERTIFIED BY : [signature]

ROSSBACHER LABORATORY LTD.

2225 S. SPRINGER AVENUE
BURNABY, B.C. V5B 3N1
TEL : (604) 299 - 6910

CERTIFICATE OF ANALYSIS

TO : CHAPLEAU RESOURCES LTD.,
2100 4TH ST.,
CRANBROOK, B.C.

TYPE OF ANALYSIS: Au METALLICS

CERTIFICATE# : 87896
PROJECT : FY
INVOICE# : 80344
PAGE# : 1

SAMPLE NAME	Oz/t -100M	Oz/t +100M	mg.Au +100M	Wt.gm -100M	Wt.gm +100M	Oz/t FINAL	
26651	0.001	0.001	0.001	209	18.25	0.001	
26651A	0.001	0.001	0.001	205	4.19	0.001	
26652	0.013	0.001	0.001	234	7.38	0.013	
26652A	0.018	0.001	0.001	227	3.51	0.018	
26653	0.008	0.001	0.001	229	2.87	0.008	
26653A	0.007	0.001	0.001	218	3.03	0.007	
26654	0.016	0.001	0.001	210	1.83	0.016	
26654A	0.014	0.001	0.001	222	2.68	0.014	
26655	0.001	0.001	0.001	208	1.27	0.001	
26655A	0.001	0.001	0.001	195	1.55	0.001	
26656	0.001	0.001	0.001	229	5.66	0.001	Limonite.
26656A	0.001	0.001	0.001	209	3.68	0.001	Quartz +
26657	0.001	0.001	0.001	209	4.16	0.001	Country.
26657A	0.001	0.001	0.001	189	1.00	0.001	
26658	0.001	0.001	0.001	224	7.60	0.001	
26658A	0.001	0.001	0.001	210	6.30	0.001	
3	0.001	0.001	0.001	216	3.34	0.001	
3A	0.001	0.001	0.001	194	1.99	0.001	

Buck pits

CERTIFIED BY : J. Rossbach

ROSSBACHER LABORATORY LTD.

2225 S. SPRINGER AVENUE
BURNABY, B.C. V5B 3N1
TEL : (604) 299 - 6910

CERTIFICATE OF ANALYSIS

: CHAPLEAU RESOURCES LTD.,
2100 N 4TH ST.,
CRANBROOK, B.C.

TYPE OF ANALYSIS: Au METALLICS

CERTIFICATE# : 87895
PROJECT : KENNELLY CON
INVOICE# : 80346
PAGE# : 1

SAMPLE NAME	Oz/t -100M	Oz/t +100M	mg.Au +100M	Wt.gm -100M	Wt.gm +100M	Oz/t FINAL	
Bantrel 23 711-11-5	0.001	0.001	0.001	196	11.94	0.001	Quartz
24 711-11-6	0.001	0.001	0.001	241	0.57	0.001	

CERTIFIED BY : J. Rossbach

(Rocks) Gossan Hill

44

ROSSBACHER LABORATORY LTD.

2225 S. SPRINGER AVENUE
BURNABY, B.C. V5B 3N1
TEL : (604) 299 - 6910

CERTIFICATE OF ANALYSIS

TO : A&M EXPLORATION LTD.
214-850 W. HASTINGS ST.
VANCOUVER, B.C.
PROJECT No.: 242

CERTIFICATE No.: 84499 - 6
INVOICE No.: 5087
DATE ANALYSED: NOV.19.1984
FILE NAME: A&M499

PREFIX	SAMPLE NAME	PPM Mo	PPM Cu	PPM Ag	PPM Zn	PPM Pb	PPB Au	PPM As	MESH SIZE
S	B 84 11-26	1	14	0.4	58	12	10	14	
S	11-27	1	18	0.4	86	20	10	16	
S	11-28	1	16	0.2	62	16	10	16	
S	11-51	1	20	0.2	58	16	10	14	
S	11-52	1	14	0.2	40	14	10	10	
S	G 84 20-02	1	14	0.2	42	8	10	8	
S	20-03	1	18	0.2	72	8	10	10	
S	20-04	1	14	0.2	48	8	10	10	
S	20-05	1	14	0.2	38	8	10	12	
S	20-06	1	12	0.2	54	12	10	12	
S	G 84 20-07	1	18	0.2	76	10	10	10	
S	20-08	1	16	0.2	52	8	10	10	
S	20-09	1	18	0.2	64	8	10	12	
S	20-10	1	20	0.2	66	8	10	16	
S	20-11	1	16	0.2	66	6	10	12	
S	20-12	1	16	0.2	64	8	10	10	
S	20-13	1	12	0.2	72	10	10	10	
S	20-14	1	10	0.2	48	10	10	8	
S	20-15	1	10	0.2	46	6	10	4	
S	20-16	1	8	0.2	38	6	10	4	
S	G 84 20-17	1	14	0.2	72	12	10	8	
S	20-18	1	16	1.0	124	22	10	14	
L	[redacted]1	1	58	0.2	146	54	10	26	
L	W-01	1	18	0.2	70	40	10	14	-40
L	P 84 /S-01	1	26	0.2	88	44	10	14	-40
L	R-S 1-01	1	28	0.2	68	30	10	20	
L	2-01	1	12	0.2	42	14	10	10	
L	3A-01	1	24	0.2	74	32	26000	20	-40
A	GR 1	4	134	2.8	74	2400	170	200	
A	2	4	146	1.4	70	2930	210	228	
A	3	3	136	3.4	64	1520	370	136	
A	5	2	104	0.8	176	1180	120	22	
A	6	2	172	3.0	354	1880	50	24	
A	7	3	14	0.4	28	54	10	20	
A	8	4	266	0.2	48	74	10	70	
A	9	3	62	0.2	62	14	10	26	
A	GR 10	2	84	0.2	60	12	10	20	
A	84 18-01	4	64	0.2	54	16	10	22	
A	02	1	54	0.4	38	16	10	8	
A	03	1	12	0.2	12	4	10	2	

CERTIFIED BY : J. Rossbach

(Rocks) Gossan Hill

ROSSBACHER LABORATORY LTD.

2225 S. SPRINGER AVENUE
BURNABY. B.C. V5B 3N1
TEL : (604) 299 - 6910

CERTIFICATE OF ANALYSIS

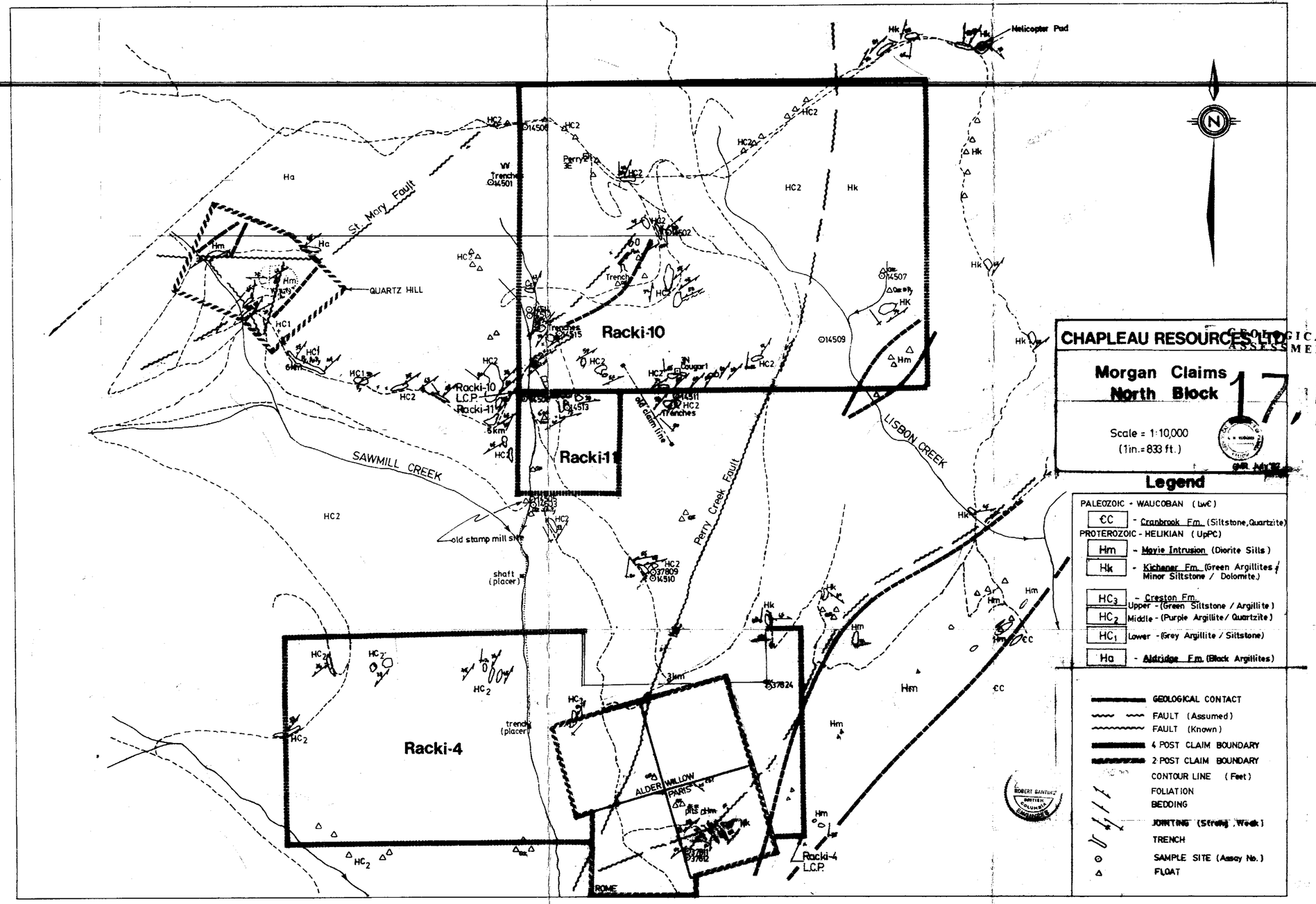
TO : A&M EXPLORATION LTD.
214-850 W. HASTINGS ST.
VANCOUVER.B.C.

PROJECT No.: 242

CERTIFICATE No.: 84499 - 7
INVOICE No.: 5087
DATE ANALYSED: NOV.19.1984
FILE NAME: A&M499

PREFIX	SAMPLE NAME	PPM Mo	PPM Cu	PPM Ag	PPM Zn	PPM Pb	PPB Au	PPM As	MESH SIZE
A	84 18-04	2	72	0.2	60	6	10	20	
A	05	1	42	0.2	24	4	10	42	
A	06	1	204	0.4	16	16	10	202	
A	07	1	164	0.4	10	4	10	52	
A	08	2	730	0.6	12	20	10	80	
A	09	1	76	0.4	12	4	10	20	
A	10	1	304	0.4	14	16	10	162	
A	84 20-01	2	90	0.4	52	2	10	40	
A	02	2	88	0.4	44	4	10	36	
A	03	4	236	0.8	72	4	10	50	
A	04	1	18	0.2	14	4	10	10	
A	05	2	2060	1.4	22	70	220	462	
A	06	2	166	0.6	22	28	10	60	
A	G 84 R1	1	58	0.4	42	74	10	18	
A	G 84 R2	1	44	0.2	196	50	10	12	
A	OP 1	2	418	130.0	390	900	10800	210	
A	LAKE 1	2	6	0.4	16	4	10	10	

CERTIFIED BY : J. Rossbach



CHAPLEAU RESOURCES LTD.

GEOLOGICAL BRANCH
ASSESSMENT REPORT

17,514

Morgan Claims
North Block

Scale = 1:10,000
(1in.= 833 ft.)

Legend

PALEOZOIC - WAUCOBAN (LwC)

- €C - Cranbrook Fm. (Siltstone, Quartzite)

PROTEROZOIC - HELIKIAN (UpPC)

- Hm - Moyie Intrusion (Diorite Sills)
- Hk - Kitchener Fm. (Green Argillites / Minor Siltstone / Dolomite.)
- HC_3 - Creston Fm. Upper - (Green Siltstone / Argillite)
- HC_2 Middle - (Purple Argillite / Quartzite)
- HC_1 Lower - (Grey Argillite / Siltstone)
- Ha - Aldridge Fm. (Black Argillites)

- GEOLOGICAL CONTACT
- FAULT (Assumed)
- FAULT (Known)
- 4 POST CLAIM BOUNDARY
- 2 POST CLAIM BOUNDARY
- CONTOUR LINE (Feet)
- FOLIATION
- BEDDING
- JOINTING (Strong, Weak)
- TRENCH
- SAMPLE SITE (Assay No.)
- FLOAT

GEOLOGICAL BRANCH
ASSESSMENT REPORT
17,514
ROBERT BANTING
LEGEND
MESOZOIC
CRETACEOUS
Kgr
Granite, Pegmatite, Quartz Monzonite
PALEOZOIC
CAMBRIAN - Eager
Ee
Argillite, Siltstone, Limestone
HELIKIAN - Purcell Supergroup
PROTEROZOIC
Moyie Intrusion
HM
Dykes & sills of diorite gabbro
Kitchener
HK
Argillite, Siltstone, Dolomite
Creston (Upper)
HC3
Siltstone, Argillite
(Middle)
HC2
Siltstone, Quartzite, Mudchip breccias
(Lower)
HC1
Argillite, Siltstone
Aldridge (Upper)
HA3
Rusty Argillite, Siltstone
(Middle)
HA2
Quartzite, Siltstone
(Lower)
HA1
Quartzite, Argillite
Syncline Overturned
Anticline Overturned
Faults
Defined
Approximate
Assumed
Airborne Magnetic Survey (IsoMagnetic lines 100, 500 gammas)
Quartz veins
Float: Quartz, Diorite, Syenite
Shaft
Adit
Claim Boundaries
Geological Boundary
Roads
Chapleau Resources Ltd
Designed by
N.T. Banting P.Eng
Drawn by
R.A. Durell
Date January 15, 1988
Revised
N
SCALE 1:20000
HM
HA1
HA3
HK
Ee
Kg
Hellroaring Intrusive
ST MARYS FAULT
Sawmill
Lisbon
Quartz Hill
HC2
ANDERSON
BIRDIE LODGE
Creek
Rome
ROME
HA3
Creek
Angus
Paris
Dublin
Cr
Glasgow
Kg
Grassy Mtn Intrusive
A
A'
C
C'
B
B'
RUNNING WOLF
Palmer
Bar
Cr
HC1
London
Gessen Hill
CRANBROOK FAULT
Kiakho Lake Intrusive
Kiakho
Wabo
PALMER BAR FAULT
Syenite
Walsh Cr
DUBLIN FAULT
GRASSY MTN FAULT
GRASSY MTN
Manchester
WUHUN
Wuhun
HOMESTAKE
COLUMBIA
Liverpool
PERRY FAULT
OLD BALDY 1 FAULT
OLD BALDY 2 FAULT
MT BIGATTINI
BUCK FAULT
Negro
Shortt
SHAKESPEARE
Perry
HC3
Limerick
OLD BALDY
OLD BALDY MTN
NOKE
EXCESS
YELLOW METAL
HC1
HM
HA2
Negro Lake
MOYIE FAULT
Moyie
River
Structural - Geology - Regional
LEGEND
LOCATION MAP
MAP AREA
ST MARYS FAULT
CRANBROOK FAULT

CHAPLEAU RESOURCES LTD.

Morgan Claims South Block

Scale = 1:10,000
(1 in. = 833 ft.)

GMR. July '87

GEOLOGICAL BRANCH ASSESSMENT REPORT

17,514

Legend

PALEOZOIC - WAUCOBAN (Lw€)

€C - Cranbrook Fm. (Siltstone, Quartzite)

PROTEROZOIC - HELIKIAN (UpPC)

Hm - Moyie Intrusion (Diorite Sills)

Hk - Kichener Fm. (Green Argillites & Minor Siltstone / Dolomite)

HC_3 - Creston Fm. Upper - (Green Siltstone / Argillite)

HC_2 - Middle - (Purple Argillite / Quartzite)

HC_1 - Lower - (Grey Argillite / Siltstone)

Ha - Aldridge Fm. (Black Argillites)

- GEOLOGICAL CONTACT (Approximate)
- GEOLOGICAL CONTACT (Defined)
- MAJOR FAULT
- MINOR FAULT (Assumed)
- MINOR FAULT (Known)
- PERIMETER OF CHAPLEAU CLAIMS
- 2 POST CLAIM BOUNDARY
- CONTOUR LINE (Feet)
- LOGGING ROAD

- OUTCROP
- FOLIATION (Inclined, Vertical)
- BEDDING (Inclined, Vertical)
- JOINTING (Strong, Weak)
- TRENCH
- SAMPLE SITE (Assay No.)
- FLOAT
- SHAFT
- ADIT

PROFESSIONAL ENGINEERS PROVINCE OF BRITISH COLUMBIA ROBERT BANTING ENGINEER