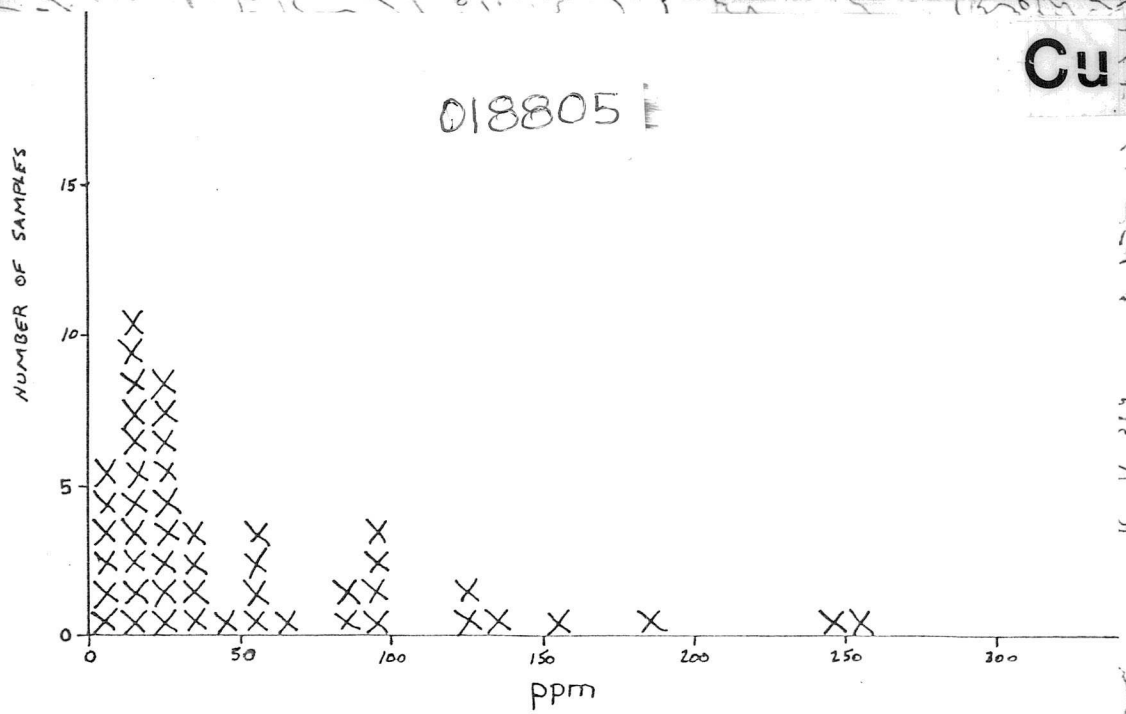
Cu

018805



Cu

-35+60 heavy para-magnetic fraction (HP)

Scale 1:250,000

TWOPETE MTN.

ROSE MTN.

MOUNT MYE

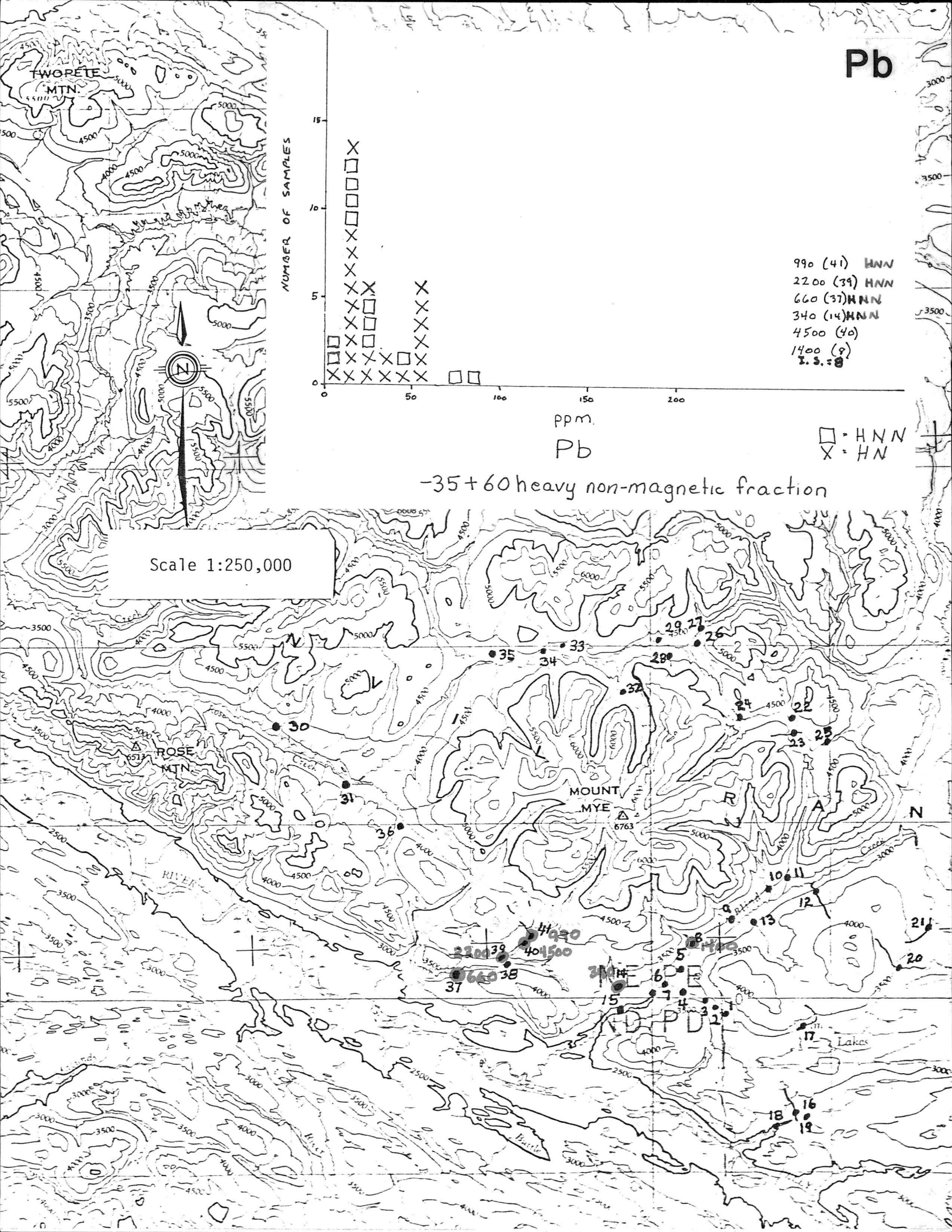
NEPE

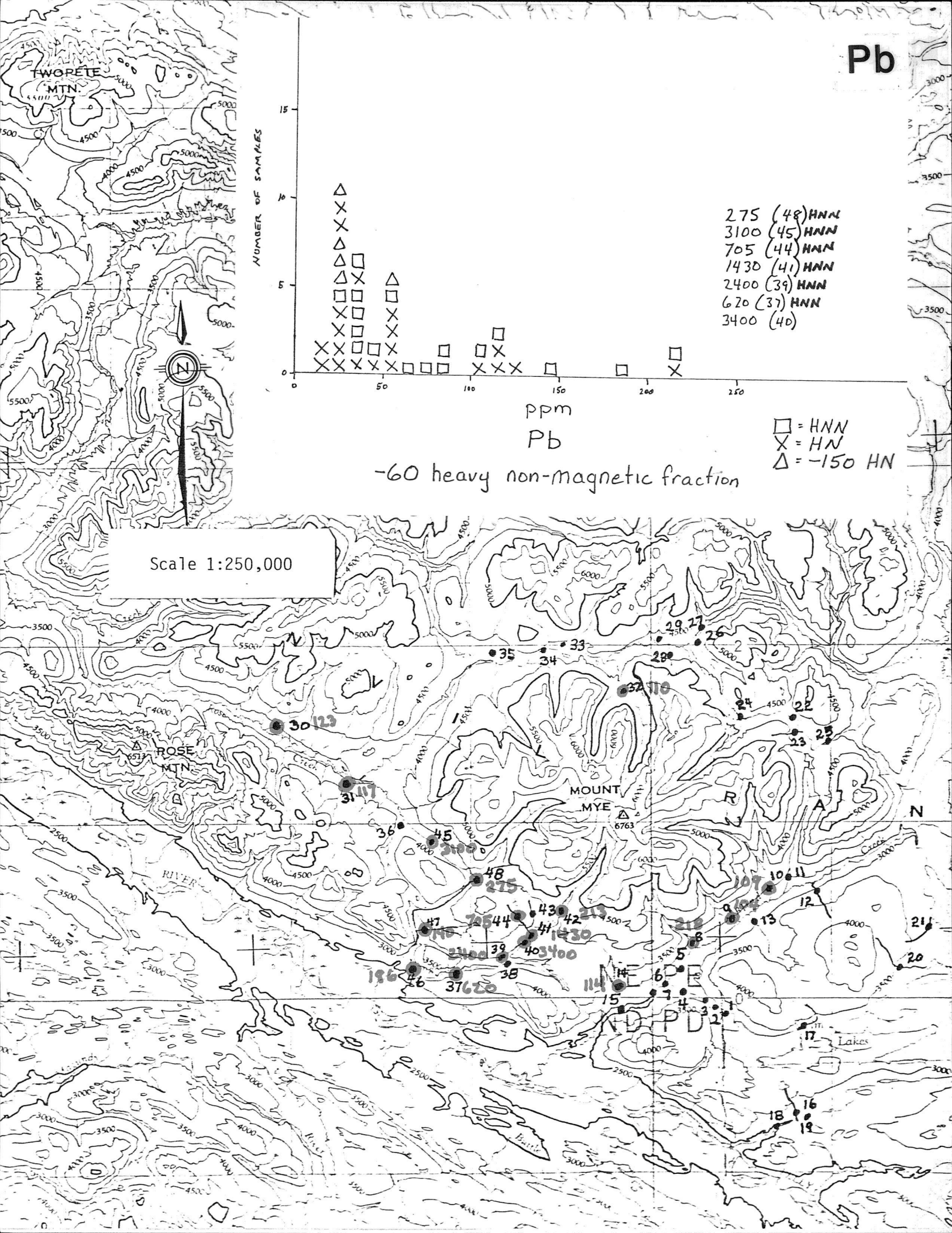
Lakes


Cu
NUMBER OF SAMPLES
I.S. = 1
ppm
Cu
X = HP
Δ = -150 HP
-60 heavy para-magnetic fraction (HP)
Scale 1:250,000
TWOPETE MTN.
ROSE MTN.
6513
MOUNT MYE
6763
NEPE
Lakes


Cu
NUMBER OF SAMPLES
15
10
5
0
50
100
150
200
250
300
ppm
Cu
1100 (39)
-35+60 heavy para-magnetic fraction (HPN)
TWOPEETE MTN.
ROSE MTN.
6513
MOUNT MYE
6763
6608
Scale 1:250,000
N
NE
NDPD
Lakes
RIVER
Creek

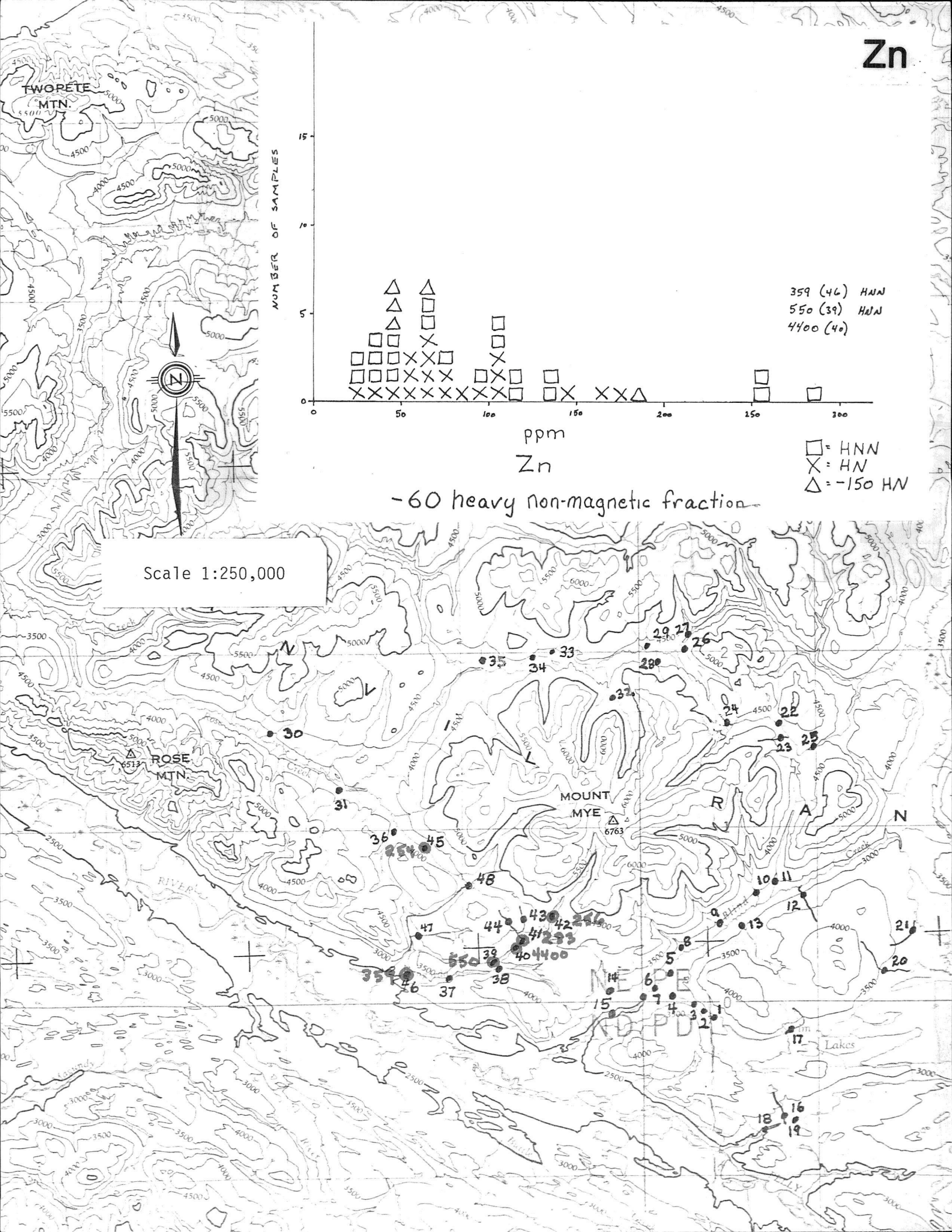

Cu
TWOPETE MTN
NUMBER OF SAMPLES
0
5
10
15
0
50
100
150
200
250
300
ppm
Cu
600 (46)
330 (41)
480 (37)
X = HPN
Δ = -150 HPN
-60 heavy para-magnetic fraction (HPN)
N
Scale 1:250,000
ROSE MTN
6513
MOUNT MYE
6763
RIVER
Creek
Lakes
NE
PD
600
330
480
285
238

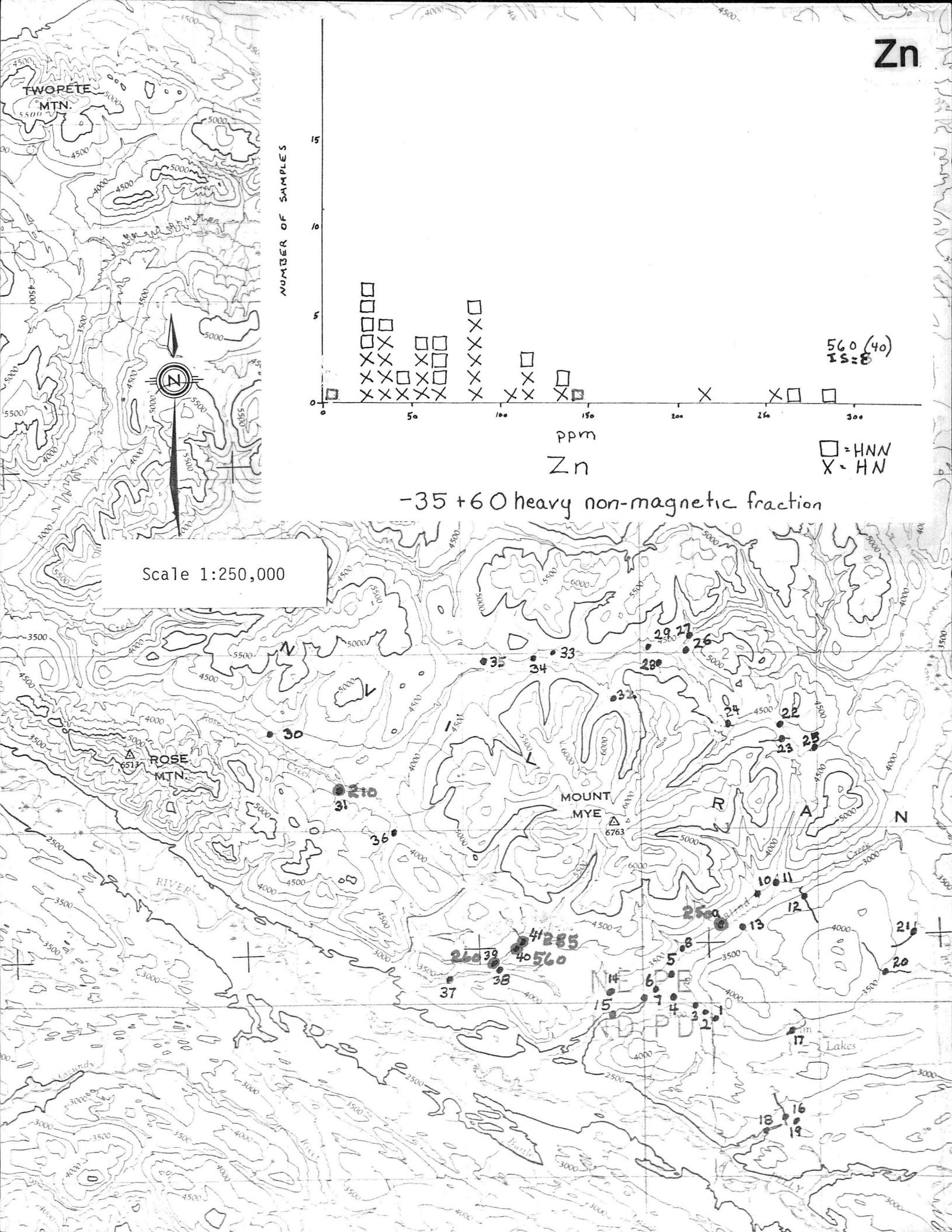

Pb
NUMBER OF SAMPLES
ppm.
Pb
□ : HNN
X : HN
990 (41) HNN
2200 (39) HNN
660 (37) HNN
340 (14) HNN
4500 (40)
1400 (8)
I. S. = 8
-35+60 heavy non-magnetic fraction
Scale 1:250,000
TWOREITE MTN.
ROSE MTN
MOUNT MYE
6763
RIVER
Lakes


Pb
NUMBER OF SAMPLES
ppm
Pb
-60 heavy non-magnetic fraction
275 (48) HNN
3100 (45) HNN
705 (44) HNN
1430 (41) HNN
2400 (39) HNN
620 (37) HNN
3400 (40)
□ = HNN
X = HN
△ = -150 HN
Scale 1:250,000
TWORETE MTN.
ROSE MTN
MOUNT MYE
6763
RIVER
Creek
Lakes


Pb
NUMBER OF SAMPLES
15
10
5
0
0
50
100
150
200
250
ppm
Pb
300 (49)
1460 (48)
420 (44)
400 (37)
640 (39)
480 (40)
I.S. = 1
X = H.P.
Δ = -150 H.P.
-60 heavy para-magnetic fraction (HP)
TWOREETE MTN.
ROSE MTN.
6513
MOUNT MYE
6763
6608
Scale 1:250,000
N
NEPPE
Lakes
RIVER


Pb
NUMBER OF SAMPLES
0
5
10
15
0
50
100
150
200
250
ppm
Pb
360 (49)
1400 (48)
580 (46)
420 (44)
520 (42)
540 (41)
450 (40)
660 (37)
810 (39)
-35+60 heavy para-magnetic fraction (HP)
Scale 1:250,000
TWOREETE MTN.
ROSE MTN.
MOUNT MYE
NEPEE
Lakes
N


Zn
TWOPETE MTN.
NUMBER OF SAMPLES
359 (46) HNN
550 (39) HNN
4400 (40)
ppm
Zn
□ = HNN
X = HN
△ = -150 HN
-60 heavy non-magnetic fraction
Scale 1:250,000
ROSE MTN.
6513
MOUNT MYE
6763
NEDEDNO PEAK
Lakes


Zn
NUMBER OF SAMPLES
15
10
5
0
0
50
100
150
200
250
300
ppm
Zn
560 (40)
IS=8
□ = HNN
X = HN
-35 +60 heavy non-magnetic fraction
TWOPETE MTN.
ROSE MTN.
6513
MOUNT MYE
6763
Scale 1:250,000
RIVER
Creek
Lakes
NE PEE KEE PEE
N
S
E
W
R A N
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41
210
260
285
560
250


Zn
NUMBER OF SAMPLES
0
5
10
15
0
50
100
150
200
250
300
ppm
Zn
392 (49)
860 (48)
540 (46)
720 (42)
390 (40)
600 (39)
320 (38)
400 (37)
1200 (3)
630 (2)
-35+60 heavy para-magnetic fraction (HP)
Scale 1:250,000
TWOPETE MTN.
ROSE MTN.
MOUNT MYE
6763
NE PEAK
6340
Lakes
Creek
River

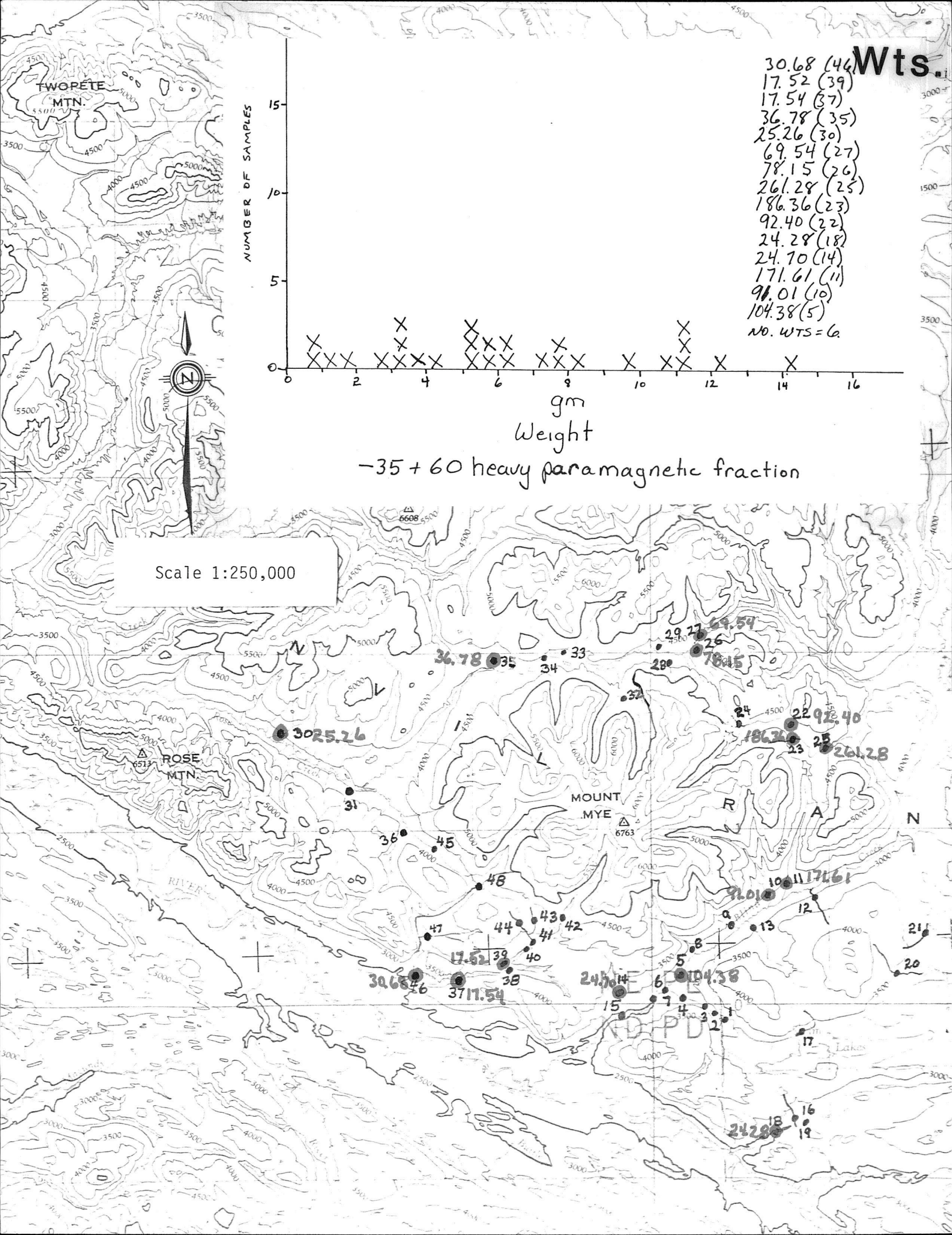

Zn
NUMBER OF SAMPLES
765 (48)
830 (46)
555 (42)
580 (40)
600 (39)
320 (37)
I.S.=1
ppm
Zn
X = HP
Δ = −150 HP
−60 heavy para-magnetic fraction (HP)
TWOREETE MTN.
ROSE MTN
MOUNT MYE
Scale 1:250,000

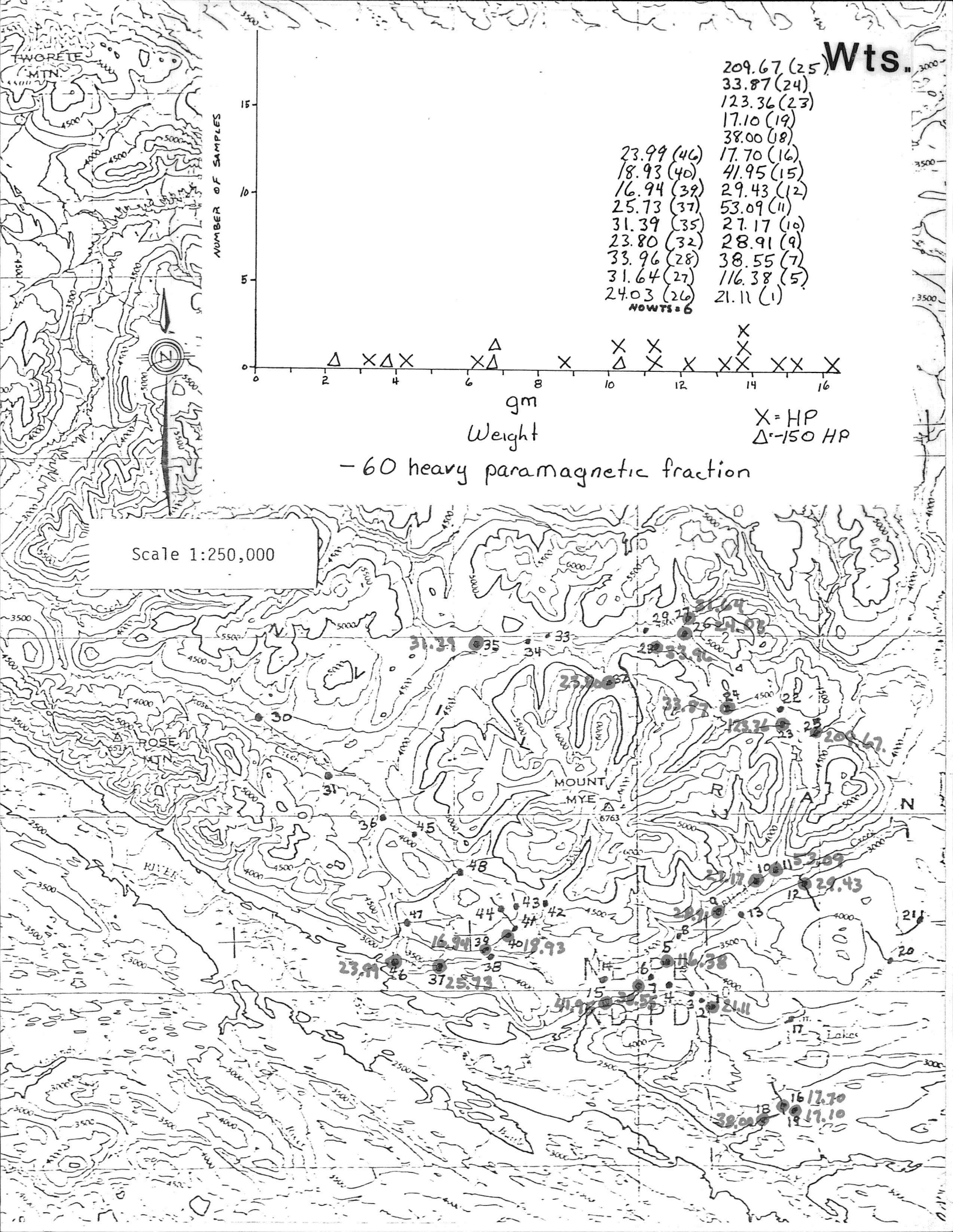

Zn
NUMBER OF SAMPLES
15
10
5
0
0
50
100
150
200
250
300
820 (46)
800 (45)
700 (42)
1040 (39)
ppm
Zn
X = HPN
Δ = −150 HPN
−60 heavy para-magnetic fraction (HPN)
TWOREETE MTN.
ROSE MTN
MOUNT MYE
Scale 1:250,000
N
RIVER
Lakes


Zn
NUMBER OF SAMPLES
0
5
10
15
0
50
100
150
200
250
30
ppm
Zn
460(39)
-35+60 heavy para-magnetic fraction (HPN)
TWOREETE MTN.
ROSE MTN
6513
MOUNT MYE
6763
Scale 1:250,000
N
NEPEE
Lakes
RIVER
Creek

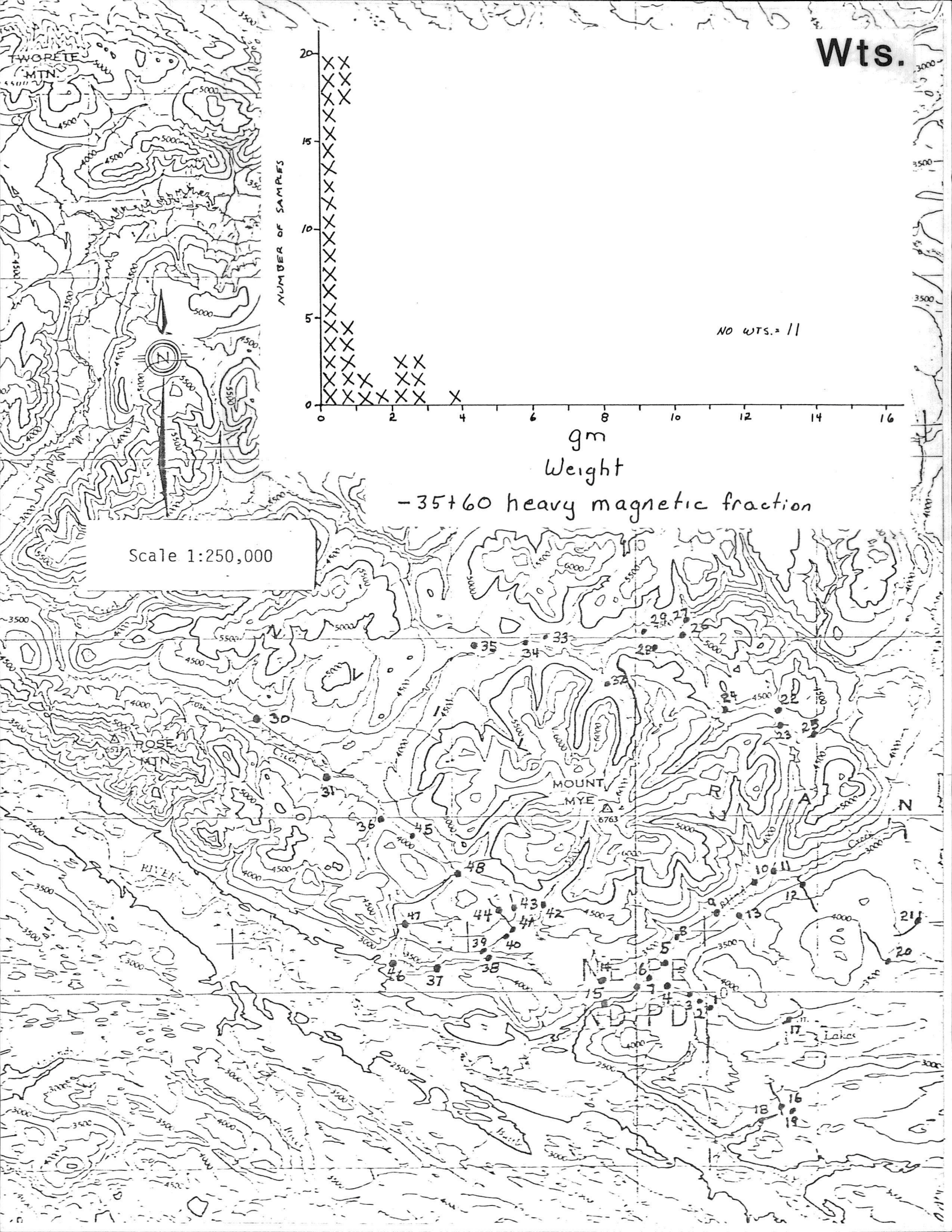

Wts.
NUMBER OF SAMPLES
0
5
10
15
0
2
4
6
8
10
12
14
16
gm
Weight
NO WTS = 6
X = HN
□ = HNN
-35+60 heavy non-magnetic fraction
TWOREITE MTN.
ROSE MTN.
MOUNT MYE
6763
Scale 1:250,000
N
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48


Wts.
NUMBER OF SAMPLES
NO WTS = 6
gm
Weight
X = HN
□ = HNN
△ = -150 HN
-60 heavy non-magnetic fraction
Scale 1:250,000
TWOREETE MTN.
ROSE MTN
MOUNT MYE
6763
6571
6608
NEPD
Lakes
River
Creek


TWOPETE MTN.
NUMBER OF SAMPLES
gm
Weight
Wts.
30.68 (46)
17.52 (39)
17.54 (37)
36.78 (35)
25.26 (30)
69.54 (27)
78.15 (26)
261.28 (25)
186.36 (23)
92.40 (22)
24.28 (18)
24.70 (14)
171.61 (11)
91.01 (10)
104.38 (5)
NO. WTS = 6
−35 + 60 heavy paramagnetic fraction
Scale 1:250,000
ROSE MTN.
MOUNT MYE
RIVER
Creek
Lakes

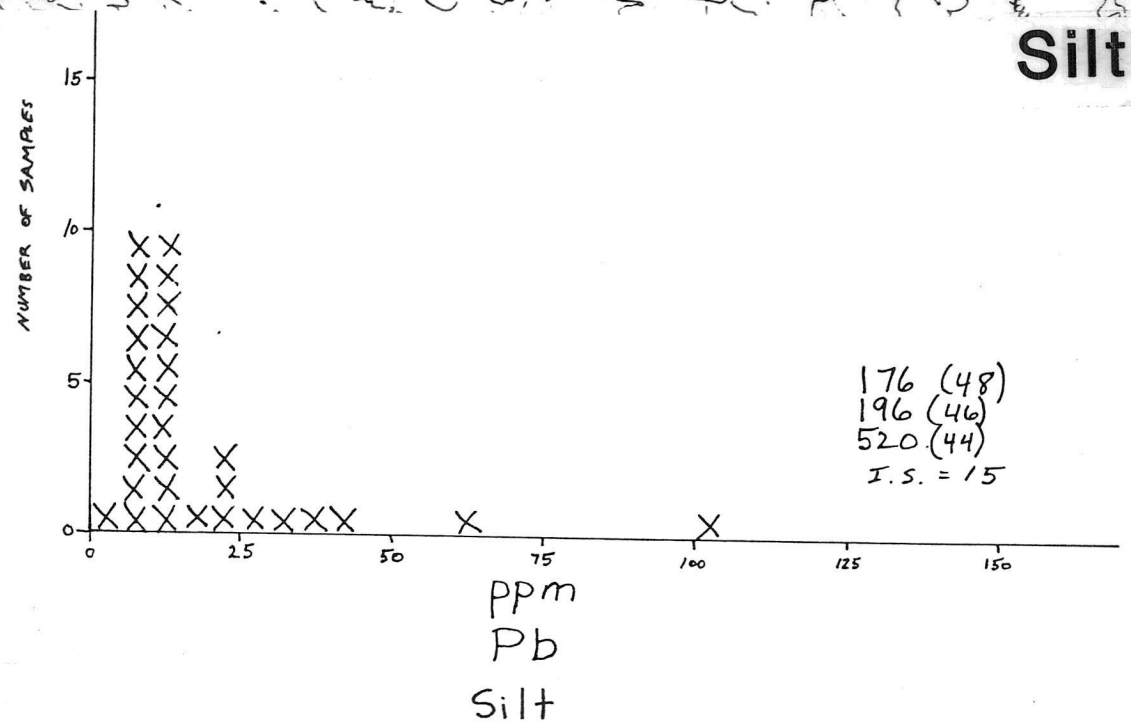

Wts.
209.67 (25)
33.87 (24)
123.36 (23)
17.10 (19)
38.00 (18)
23.99 (46)
17.70 (16)
18.93 (40)
41.95 (15)
16.94 (39)
29.43 (12)
25.73 (37)
53.09 (11)
31.39 (35)
27.17 (10)
23.80 (32)
28.91 (9)
33.96 (28)
38.55 (7)
31.64 (27)
116.38 (5)
24.03 (26)
21.11 (1)
NO WTS: 6
NUMBER OF SAMPLES
gm
Weight
X = HP
Δ = 150 HP
-60 heavy paramagnetic fraction
Scale 1:250,000
TWORETE MTN.
ROSE MTN.
MOUNT MYE
6763
RIVER
Lakes


Wts.
NUMBER OF SAMPLES
15
10
5
0
0
2
4
6
8
10
12
14
16
gm
Weight
20.68(28)
NO WTS. = 6
X = HM
Δ = −150 HM
-60 heavy magnetic fraction
TWORETE MTN.
Scale 1:250,000
ROSE MTN.
MOUNT MYE
6763
NEPEAN
Lakes
N

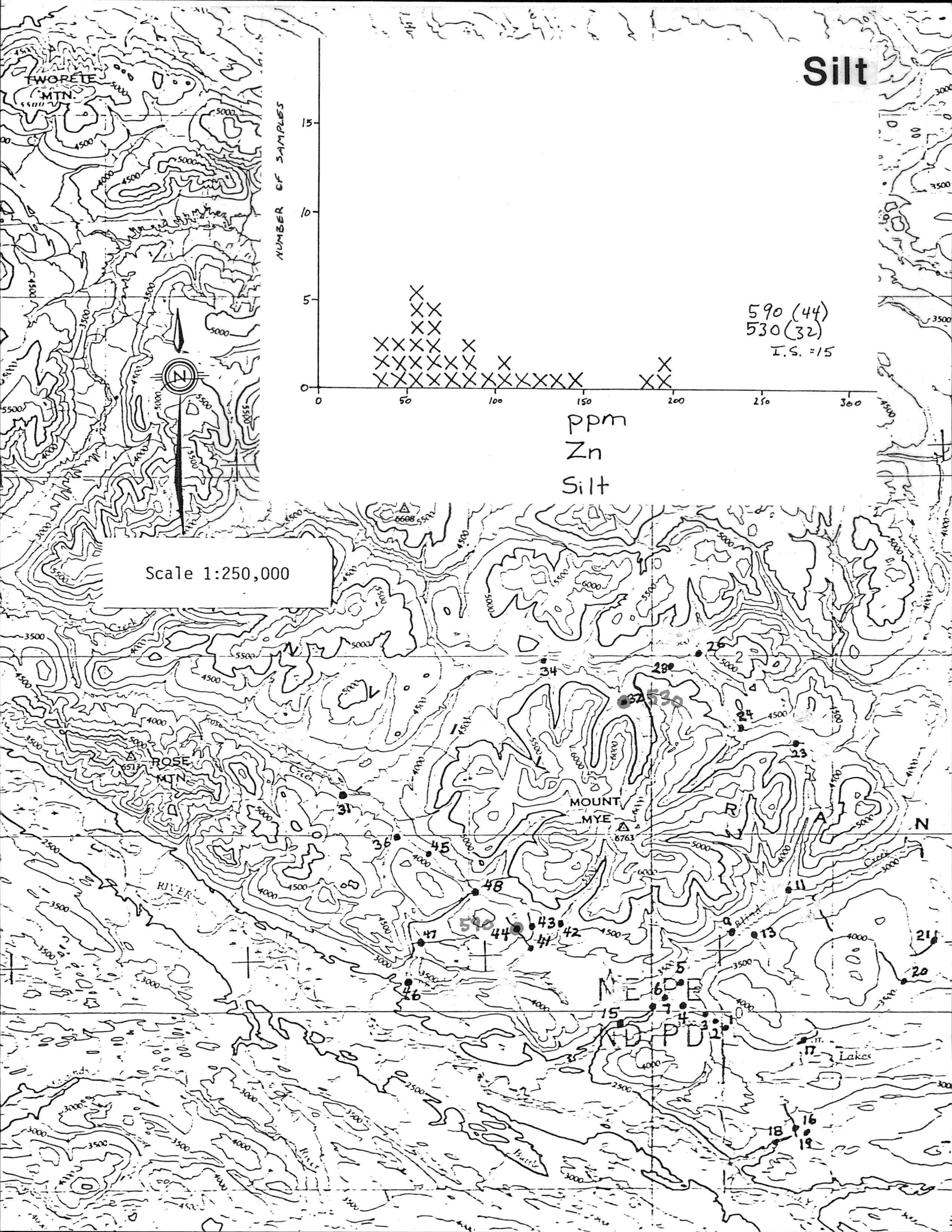

Wts.
NUMBER OF SAMPLES
NO WTS. = 11
gm
Weight
-35+60 heavy magnetic fraction
Scale 1:250,000
TWORETE MTN.
ROSE MTN.
MOUNT MYE
6763
NEED
Lakes


Silt
NUMBER OF SAMPLES
I.S. = 15
ppm
Cu
Silt
Scale 1:250,000
TWORETE MTN.
ROSE MTN
MOUNT MYE
NEPEE
RDPD
Lakes

Silt

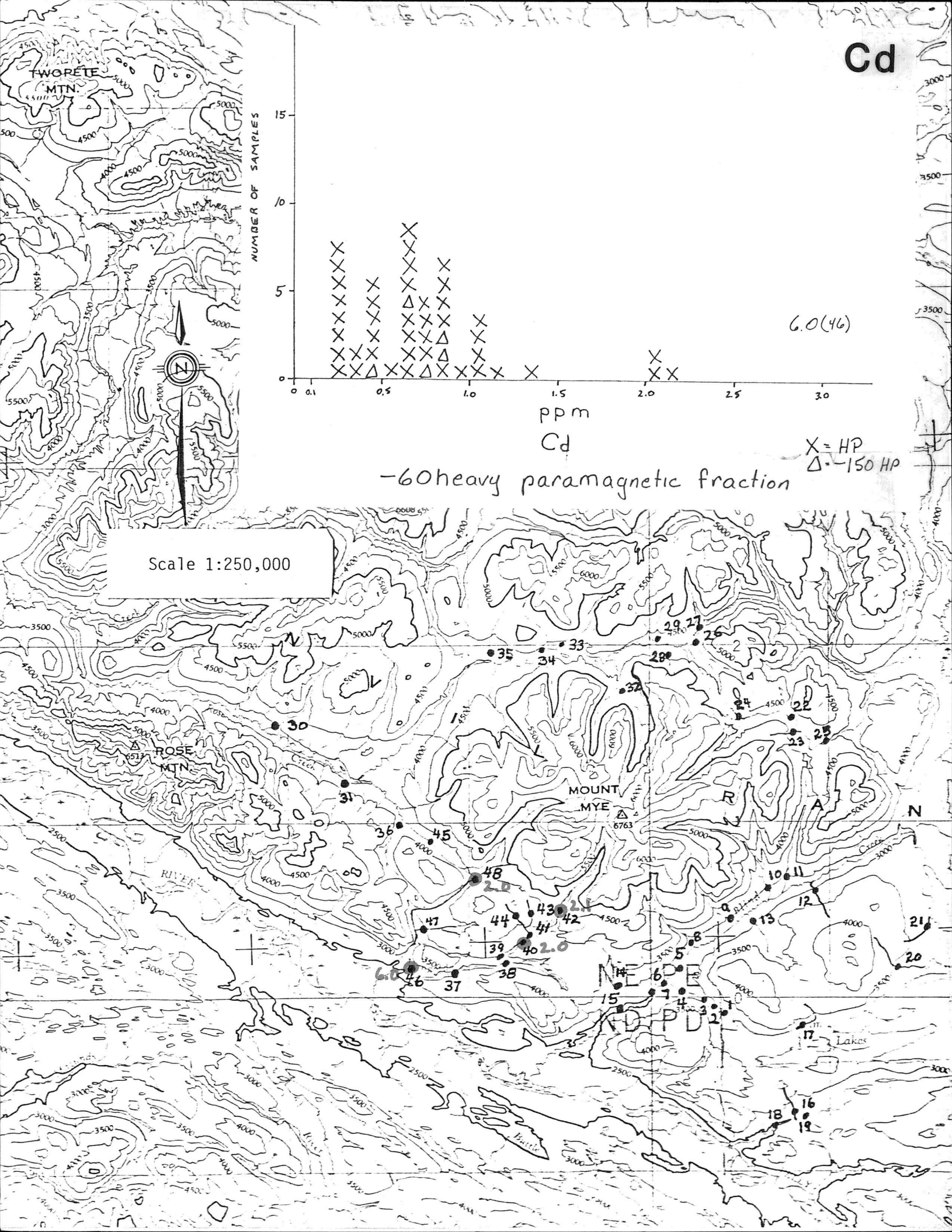


Scale 1:250,000

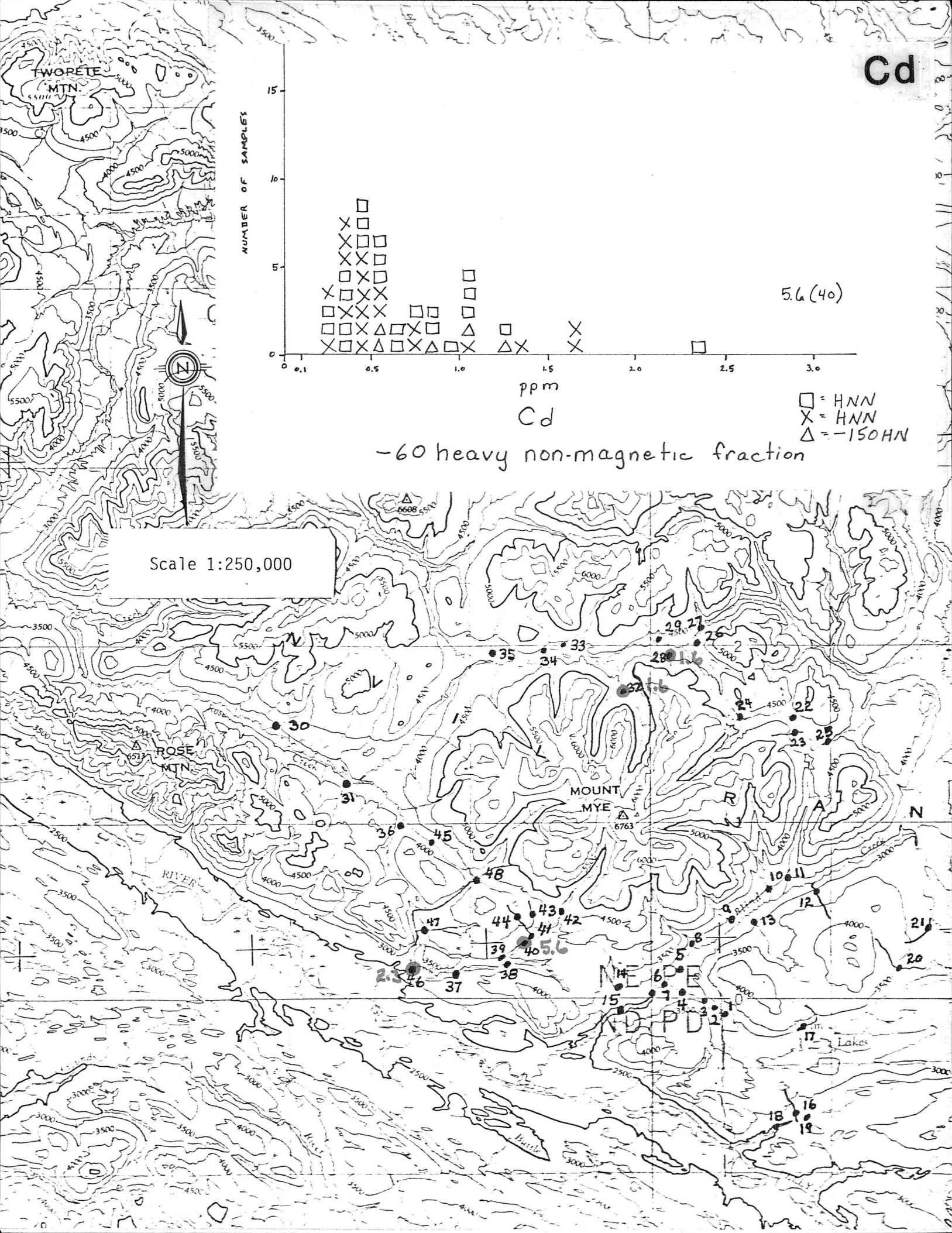

Silt
NUMBER OF SAMPLES
0
5
10
15
0
50
100
150
200
250
300
590 (44)
530 (32)
I.S. = 15
ppm
Zn
Silt
TWORETE
MTN
ROSE
MTN
MOUNT
MYE
6763
6608
6513
Scale 1:250,000
N
Creek
RIVER
Lakes


Silt
NUMBER OF SAMPLES
I.S. = 15
ppm
Cd
Silt
Scale 1:250,000
TWORETE MTN.
ROSE MTN.
MOUNT MYE
6763
6608
6513
N
Creek
River
Lakes


Silt
NUMBER OF SAMPLES
15
10
5
0
I.S. = 14
0
500
1000
1500
2000
2500
3000
ppm
Ba
Silt
TWORETE MTN.
ROSE MTN.
MOUNT MYE
Scale 1:250,000
N
1400
1480
1980
2470
1400


Cd
NUMBER OF SAMPLES
15
10
5
0
0 0.1 0.5 1.0 1.5 2.0 2.5 3.0
ppm
Cd
6.0(46)
X = HP
Δ = -150 HP
-60 heavy paramagnetic fraction
Scale 1:250,000
TWOPETE MTN.
ROSE MTN
6513
MOUNT MYE
6763
NEPE
Lakes
RIVER
Creek

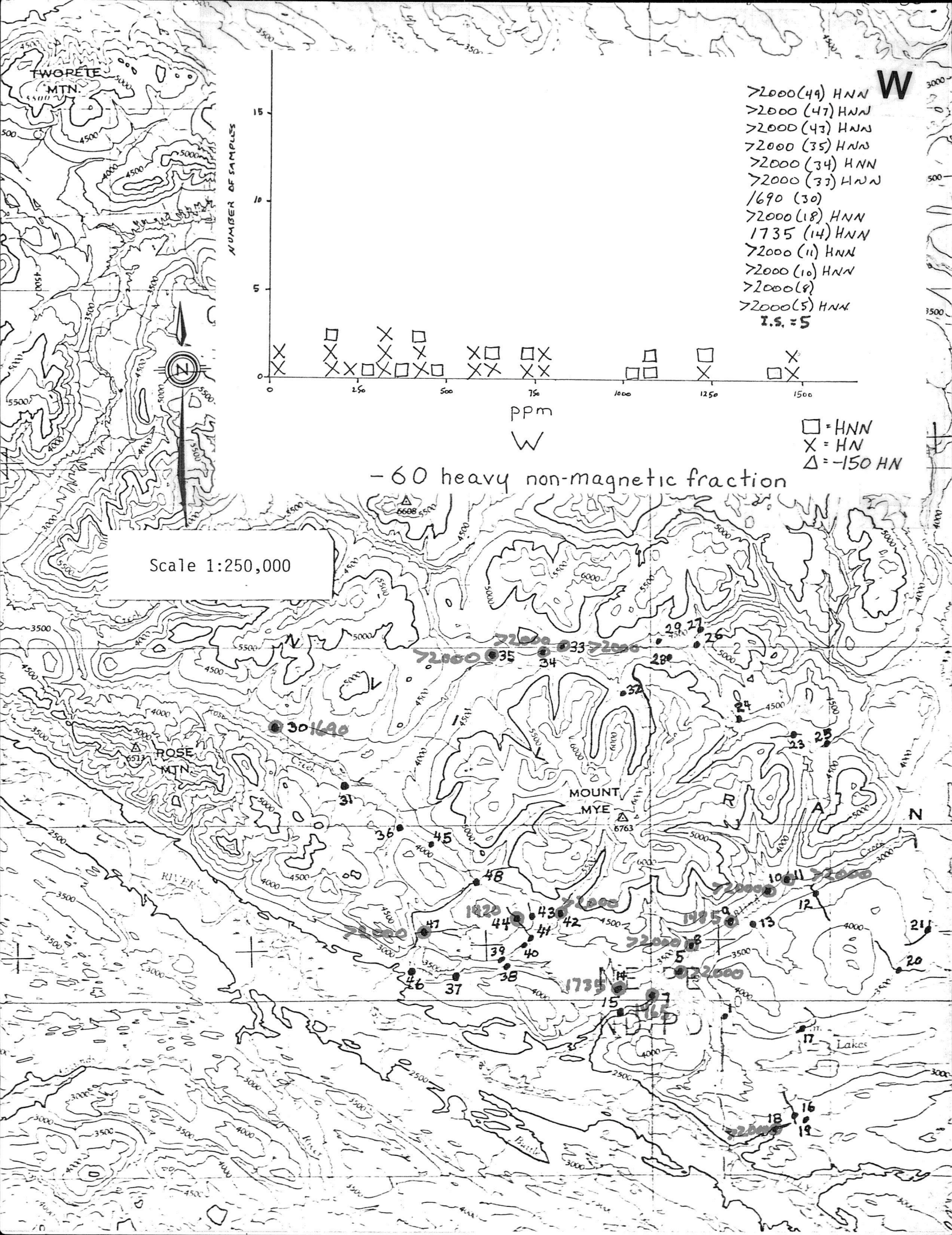

Cd
NUMBER OF SAMPLES
15
10
5
0
0 0.1 0.5 1.0 1.5 2.0 2.5 3.0
ppm
Cd
6.5 (3)
I.S. = 8
□ = HNN
X = HN
-35+60 heavy non-magnetic fraction
TWOPETE MTN.
ROSE MTN
6513
MOUNT MYE
6763
6608
Scale 1:250,000
N
NEPD
Lakes


Cd
NUMBER OF SAMPLES
ppm
Cd
5.6 (40)
□ = HNN
X = HNN
△ = -150HN
-60 heavy non-magnetic fraction
Scale 1:250,000
TWORETE MTN.
ROSE MTN.
MOUNT MYE
NEPEAN RIVER
Lakes
5.6
2.3


Cd
NUMBER OF SAMPLES
0
5
10
15
0
0.1
0.5
1.0
1.5
2.0
2.5
3.0
ppm
Cd
-35+60 heavy paramagnetic fraction
TWOREETE MTN.
ROSE MTN.
MOUNT MYE
6763
NEPEE
Scale 1:250,000
N

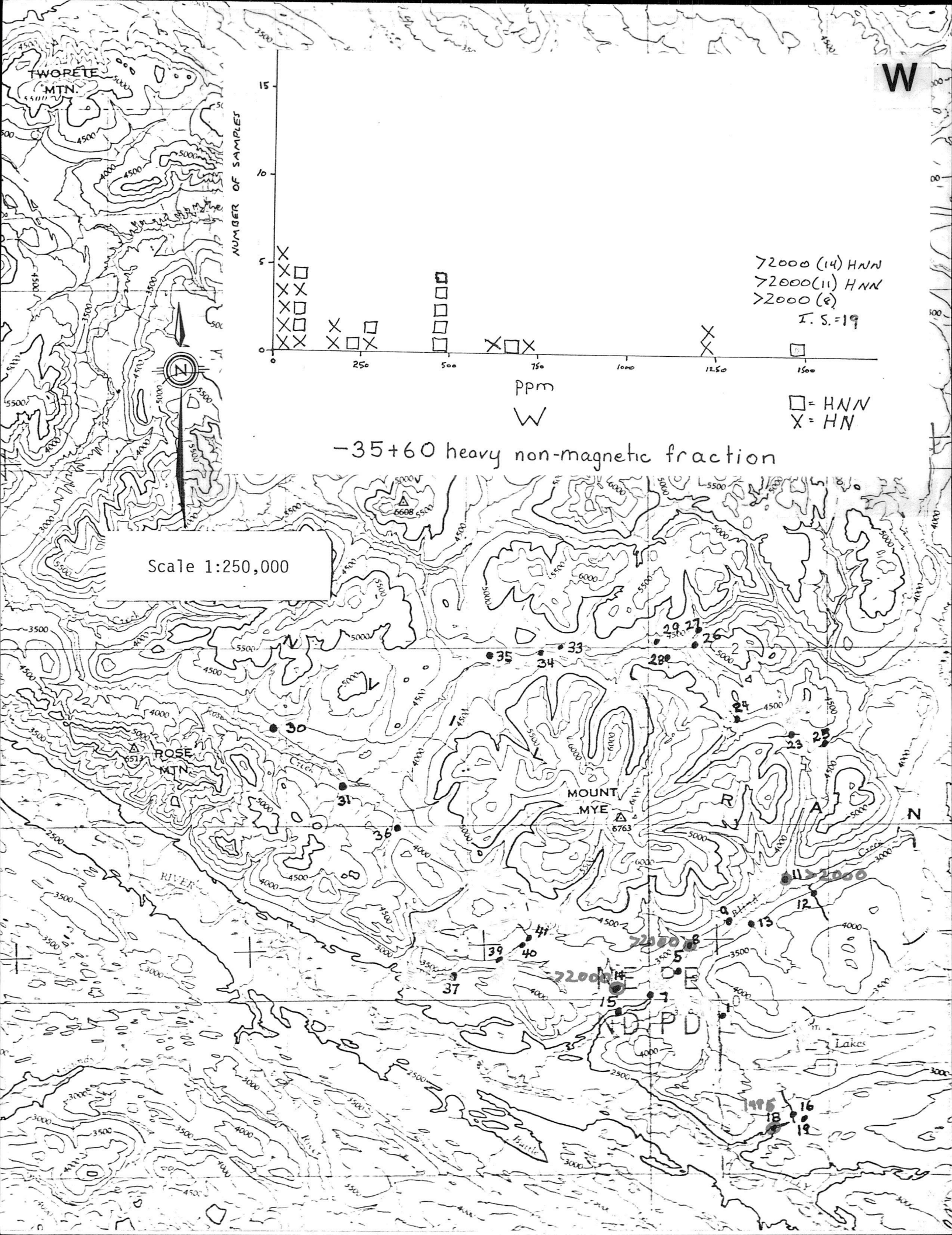

Mo
NUMBER OF SAMPLES
ppm
Mo
-60 heavy non-magnetic fraction
□ = HNN
X = HN
△ = -150 HN
Scale 1:250,000
TWORETE MTN.
ROSE MTN
6513
MOUNT MYE
6763
NEPPEE
Lakes
RIVER
Creek

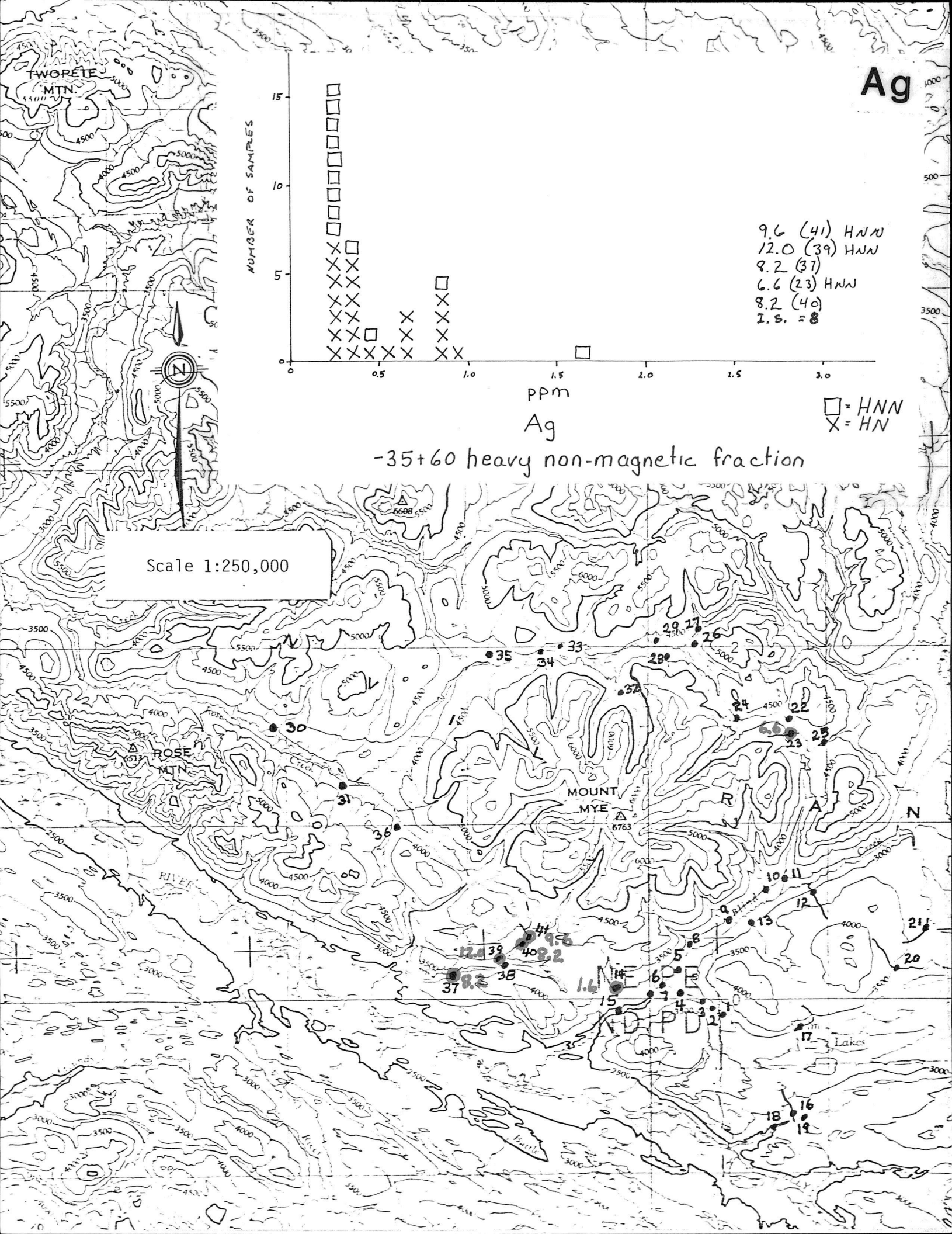

Mo
NUMBER OF SAMPLES
0
5
10
15
0 1
5
10
15
20
25
ppm.
57 (19)
I.S = 8
□ = HNN
X = HN
Mo
-35+60 heavy non-magnetic fraction
Scale 1:250,000
TWOPETE MTN.
ROSE MTN.
6513
MOUNT MYE
6763
6608
NEPPEE
Lakes
RIVER
Creek


TWORETE MTN.
ROSE MTN.
MOUNT MYE
6763
6608
6513
NUMBER OF SAMPLES
0
5
10
15
0
250
500
750
1000
1250
1500
ppm
W
>2000(49) HNN
>2000 (47) HNN
>2000 (43) HNN
>2000 (35) HNN
>2000 (34) HNN
>2000 (33) HNN
1690 (30)
>2000 (18) HNN
1735 (14) HNN
>2000 (11) HNN
>2000 (10) HNN
>2000(8)
>2000(5) HNN
I.S. = 5
□ = HNN
X = HN
Δ = -150 HN
-60 heavy non-magnetic fraction
Scale 1:250,000
Lakes

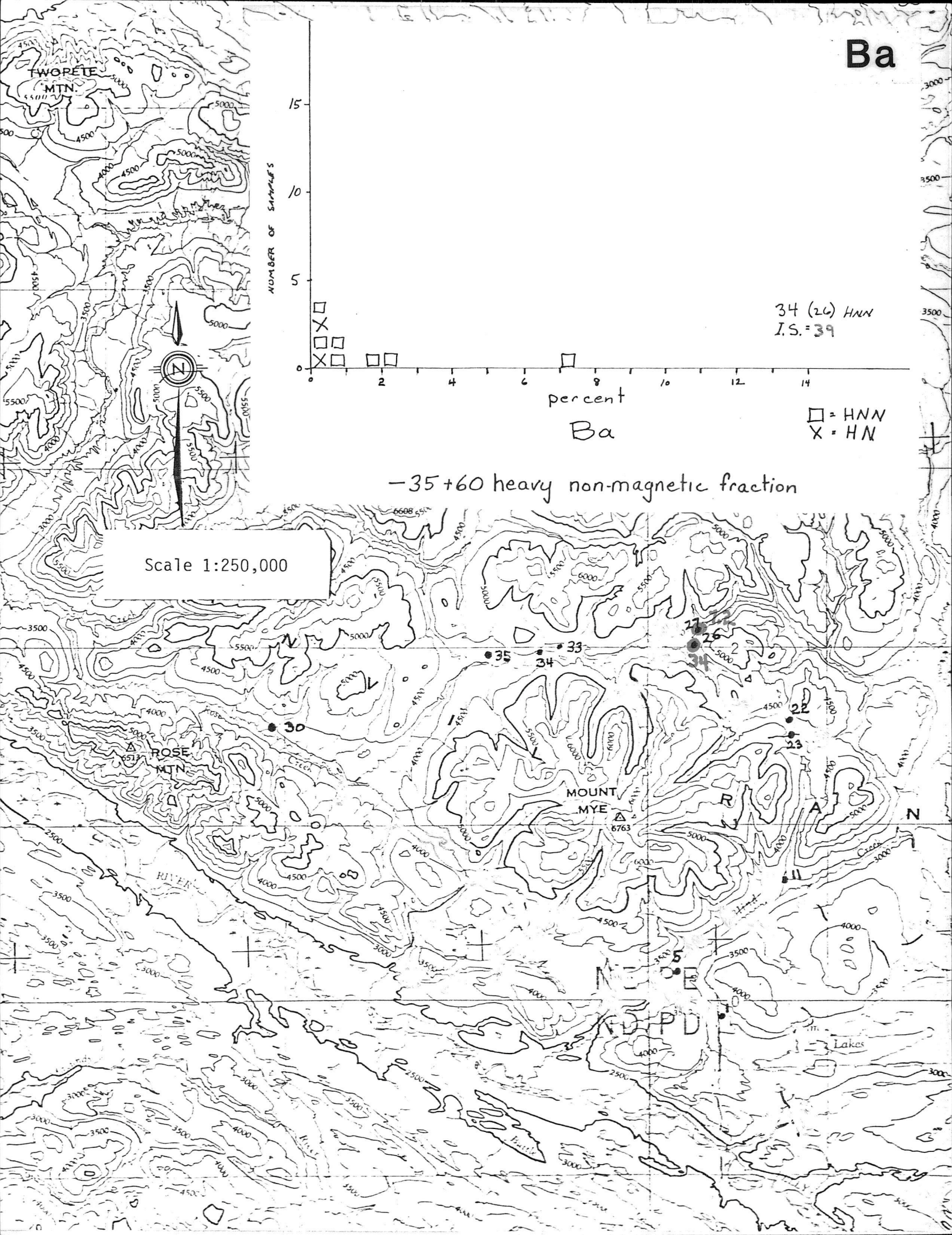

Cu
NUMBER OF SAMPLES
15
10
5
0
0
50
100
150
200
250
ppm
Cu
338 (41) HNN
620 (40)
526 (9)
I.S. = 8
□ = HNN
X = HN
-35 + 60 heavy non-magnetic fraction
Scale 1:250,000
TWOREE MTN.
ROSE MTN.
6513
MOUNT MYE
6763
RIVER
Creek
Lakes
N
NEPE
RD PD
338
620
526
268
252
211

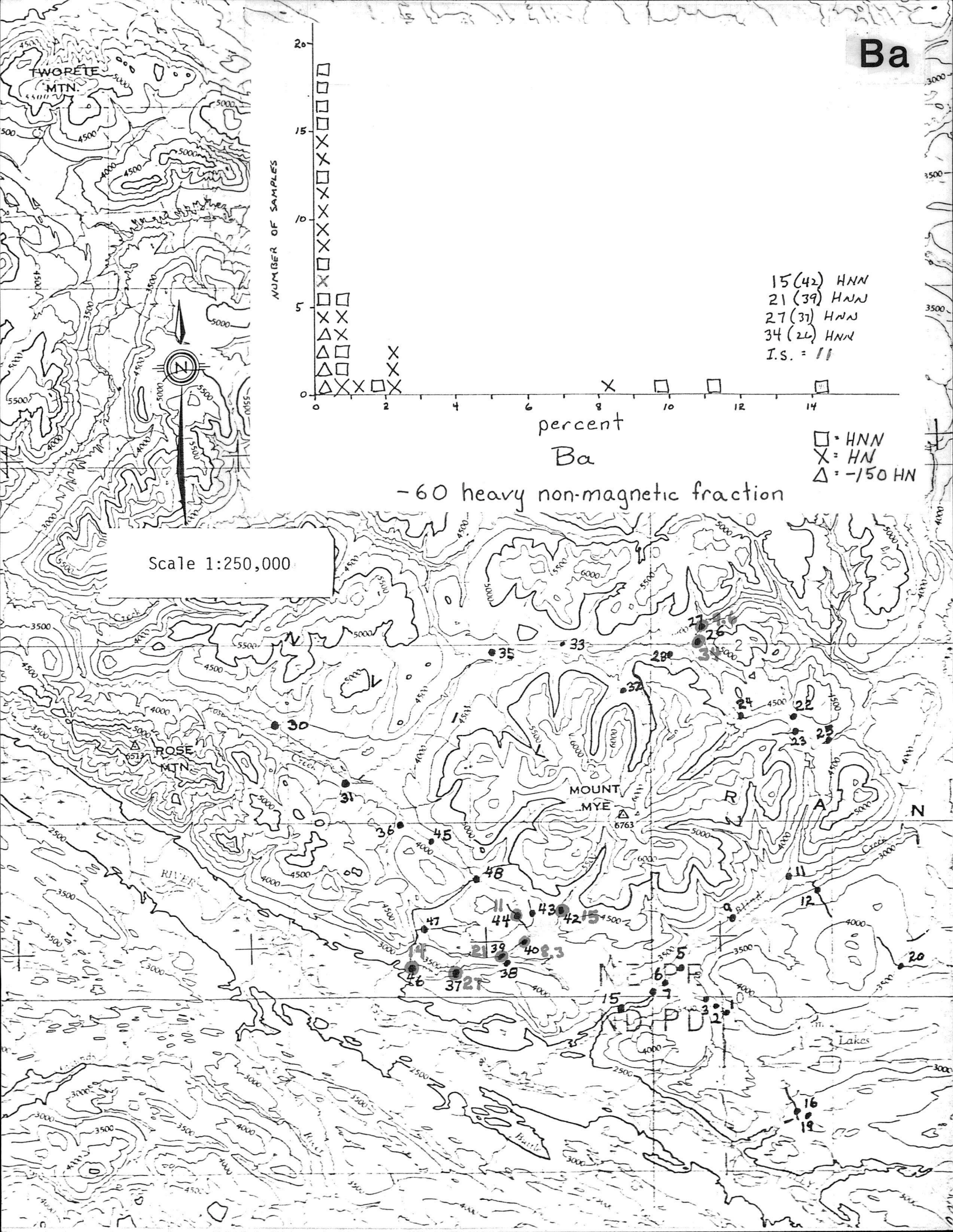

Cu
NUMBER OF SAMPLES
0
5
10
15
0
50
100
150
200
250
300
ppm
Cu
364 (47) HNN
405 (40)
□ = HNN
X = HN
△ = -150 HN
-60 heavy non-magnetic fraction
TWOREITE MTN.
ROSE MTN
MOUNT MYE
6763
6513
6608
Scale 1:250,000
N
RIVER
Creek
Lakes
364
405
221
236
229

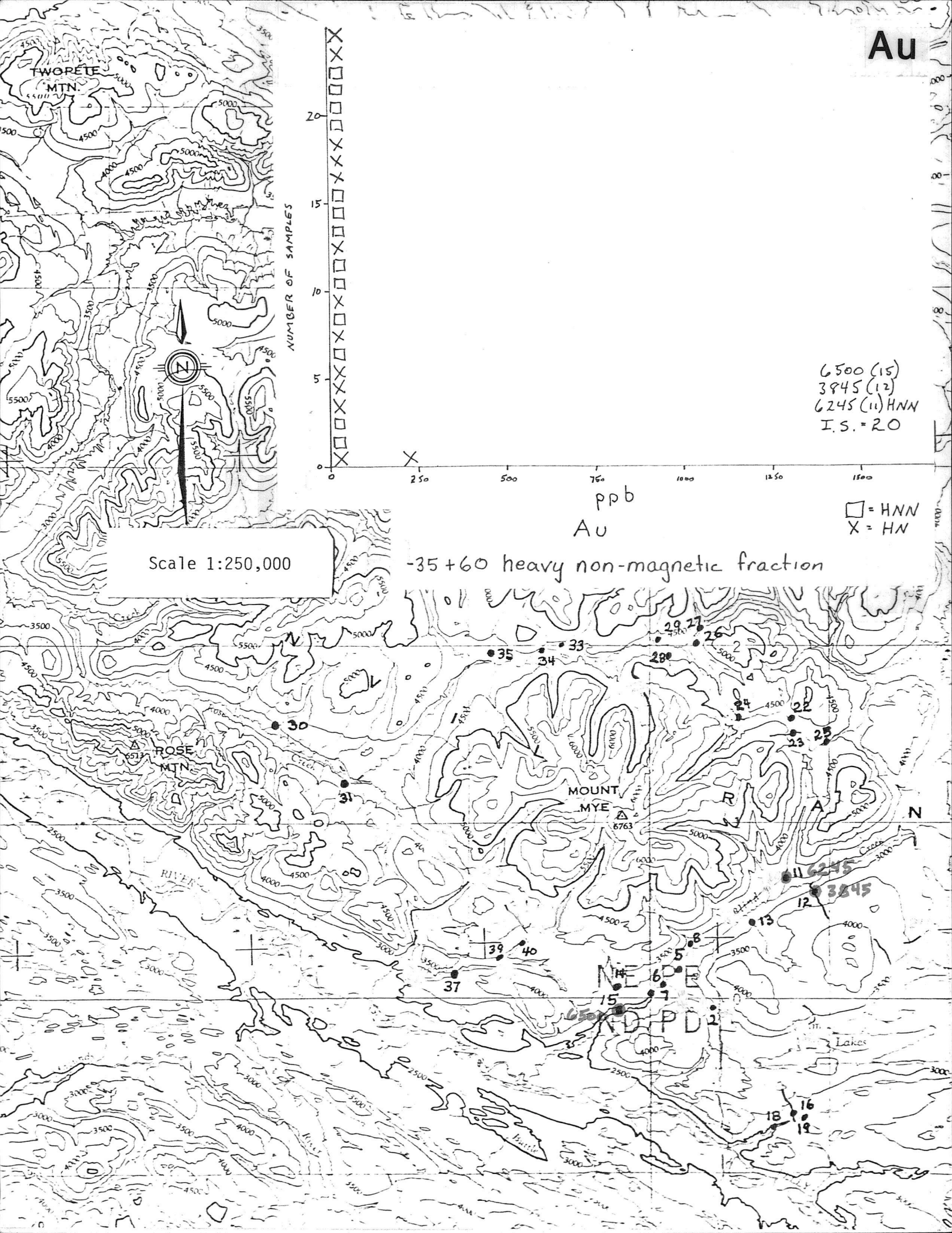

W
NUMBER OF SAMPLES
15
10
5
0
250
500
750
1000
1250
1500
ppm
W
>2000 (14) HNN
>2000 (11) HNN
>2000 (8)
I. S. = 19
□ = HNN
X = HN
−35+60 heavy non-magnetic fraction
TWOREATE MTN.
ROSE MTN.
6513
MOUNT MYE
6763
6608
N
Scale 1:250,000
>2000
>2000
>2000
1495
Lakes
RIVER

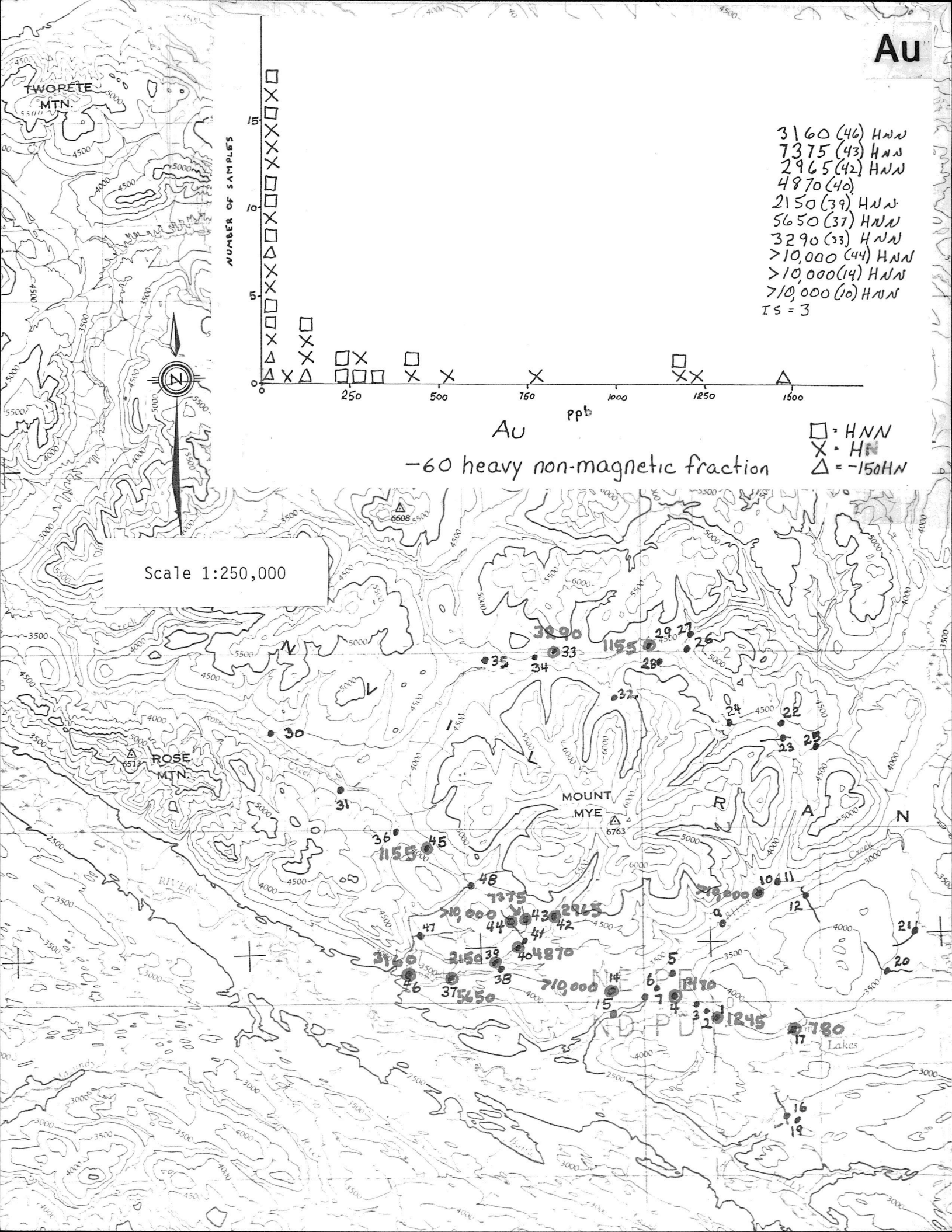

Ag
NUMBER OF SAMPLES
ppm
9.6 (41) HNN
12.0 (39) HNN
8.2 (37)
6.6 (23) HNN
8.2 (40)
I.S. = 8
□ = HNN
X = HN
Ag
-35+60 heavy non-magnetic fraction
Scale 1:250,000
TWOPETE MTN.
ROSE MTN
MOUNT MYE
RIVER
Lakes


Ag
7.2 (45) HNN
6.5 (22) -150 HN
8.0 (46) HNN
6.4 (44) HNN
10 (43) HNN
8.8 (41) HNN
4.8 (39) HNN
6.0 (37) HNN
6.6 (10) HNN
3.9 (32)
7.6 (29)
14 (8)
4.8 (40)
NUMBER OF SAMPLES
ppm
□ = HNN
X = HN
Δ = -150 HN
Ag
-60 heavy non-magnetic fraction
Scale 1:250,000
TWORETE MTN.
ROSE MTN.
MOUNT MYE
NEPEAN
Lakes


Ba
NUMBER OF SAMPLES
15
10
5
0
0
2
4
6
8
10
12
14
percent
Ba
34 (24) HNN
I.S. = 39
□ = HNN
X = HN
−35 +60 heavy non-magnetic fraction
Scale 1:250,000
TWOPETE MTN
ROSE MTN
6513
MOUNT MYE
6763
RIVER
Creek
Lakes
N
35
34
33
30
26
22
23
11
5


Ba
NUMBER OF SAMPLES
percent
Ba
-60 heavy non-magnetic fraction
15 (42) HNN
21 (39) HNN
27 (31) HNN
34 (26) HNN
I.S. = 11
□ = HNN
X = HN
△ = -150 HN
Scale 1:250,000
TWOPETE MTN.
ROSE MTN.
MOUNT MYE
6763
N


Au
TWOREETE MTN.
NUMBER OF SAMPLES
0
5
10
15
20
250
500
750
1000
1250
1500
ppb
Au
6500 (15)
3845 (12)
6245 (11) HNN
I.S. = 20
□ = HNN
X = HN
Scale 1:250,000
-35 +60 heavy non-magnetic fraction
ROSE MTN
6513
MOUNT MYE
6763
NEPE
6500
3845
6245
Lakes


Au
3160 (46) HNN
7375 (43) HNN
2965 (42) HNN
4870 (40)
2150 (39) HNN
5650 (37) HNN
3290 (33) HNN
>10,000 (44) HNN
>10,000 (14) HNN
>10,000 (10) HNN
IS = 3
NUMBER OF SAMPLES
0
5
10
15
250
500
750
1000
1250
1500
ppb
Au
-60 heavy non-magnetic fraction
□ = HNN
X = HN
△ = -150HN
TWORETE MTN.
ROSE MTN.
6517
MOUNT MYE
6763
6608
N
Scale 1:250,000

Lab setup.

- 81-G-0413 -35+60 IP
- 81-G-(0389 -60 HN) re sieved

all mixed with ↓ all -60 mixed with ↑

IP IN IM
HP HN HM

Tupper
Cathy Simp AG 50

BARIUM (ppm)

81-G-	Fine			Coarse	
	-150	-60 +150	-35 +60	-20 +35	
56 A	25,000	120,000	~~110,000~~ 68,000	20,000	
B	NSS	130,000	~~120 000~~ 60,000	13,000	
E	NSS	110,000	~~68,000~~ NSS	20,000	6km
~~E~~	NSS	70,000	~~60,000~~ NSS	8,000	
H	42,000	120,000	~~NSS~~ 50,000	15,000	
63 A	NSS	29,000	NSS	25,000	
B	NSS	50,000	58,000	37,000	2km
C	NSS	NSS	NSS	87,000	
55 A	NSS	90,000	110,000	62,000	
B	NSS	95,000	120,000	90,000	4km
44 A	NSS	NSS	NSS	NSS	
B	NSS	2000	NSS	400	

where there is sufficient data the response seems to be best in the intermediate sizes with a definite fall off in fines. Fairly good reproducibility

GOLD (ppb)

81-G-	FINE			COARSE	
	-150	-60+150	-35+60	-20 +35	
56A	27800	1450	<10	—	
B	4530	20	100	—	
E	8070	10	<30	—	6 km
G	5500	20	20	—	
H	4140	850	<10	—	
63A	1570	180	60	—	
B	2830	3600	20	—	2 km
C	110	10	30	—	
55A	4330	270	40	—	
55B	60	700	60	—	4 km
44A	<20	10	<30	—	
44B	420	10	10	—	

response definitely best in fines probably due to nugget effect! Reproducibility not good but best sites are anomalous in each case. Reproducibility seems to increase as grain size decreases.

Copper

81-G-

		Fine			Coarse	
		-150	-60 +150	-35 +60	-20 +35	
56	A	220	260	280	300	
	B	NSS	260	310	172	
	E	NSS	290	NSS	128	6km
	G	400	230	132	60	
	H	250	230	230	120	
63	A	NSS	400	NSS	190	
	B	375	300	250	100	2km
	C	330	NSS	295	370	
55	A	460	560	540	340	
	B	NSS	470	480	320	4km
44	A	NSS	NSS	NSS	9	~~4km~~
	B	NSS	32	48	18	

ARSENIC

81-G-	FINE- −150	−60 +150	−35 +60	COARSE −20 +35	
56 A	75	44	102	206	
B	NSS	86	138	162	
E	NSS	92	NSS	202	6km
G	248	58	119	138	
H	63	40	106	126	
63 A	NSS	400	~~184~~ NSS	194	
B	900	390	~~270~~ 300	118	2km
C	1000	271	243	70	
55 A	520	360	184	198	
B	NSS	500	270	226	4km
44 A	NSS	NS	NSS	13	
B	NSS	38	12	114	

LEAD

81-G-	Fine			Coarse	
	-150	-60 +150	-35 +60	-20 +35	
56 A	380	390	700	1340	
B	NSS	320	740	1260	
E	NSS	260	NSS	2300	6km
G	600	320	720	1420	
H	360	400	680	1100	
63 A	NSS	540	NSS	780	
B	970	840	540	1300	2km
C	1230	NSS	2100	2600	
55 A	900	80	110	1160	4km
B	NSS	126	84	1280	
44 A	NSS	NSS	NSS	180	
B	NSS	86	56	118	

general tendency is for drop off of response with grainsize with slight recovery in finest sizes. Good reproducibility

ZINC

81-G	Fine			Coarse	
	-150	-60 +150	-35 +60	-20 +35	
56 A	268	200	224	230	
B	NSS	240	220	234	6 km
E	NSS	216	NSS	640	
G	500	255	252	276	
H	324	240	216	230	
63 A	NSS	3600	NSS	510	
B	3500	2000	644	336	2 km
C	3000	NSS	715	505	
55 A	1600	530	445	424	
B	NSS	500	345	440	4 km
44 A	NSS	NSS	NSS	62	
B	NSS	140	160	68	

generally value of anomaly increases with finer grain sizes - good reproducibility

SILVER

81-G		Fine			Coarse	
		-150	-60 +150	-35 +60	-20 +35	
56	A	2.2	3.8	5.8	3.6	
	B	NSS	2.4	3.4	3.4	
	E	NSS	1.8	NSS	2.6	6km
	G	6.4	1.4	1.0	2.6	
	A	2.0	4.4	2.8	2.0	
63	A	NSS	2.8	NSS	3.6	
	B	5.3	3.2	5.6	4.4	2km
	C	6.3	NSS	4.6	9.0	
55	A	7.2	3.0	7.6	10.0	
	B	NSS	5.0	8.2	9.8	4km
44	A	NSS	NSS	NSS	0.3	
	B	NSS	0.2	0.4	0.2	

reproducibility not bad but variation is great enough to obscure grain size trends.