

COMINCO LTD.

EXPLORATION  
NTS 92H/10,15

WESTERN DISTRICT  
August 25, 1980

ASSESSMENT REPORT  
ON A GROUND MAGNETIC  
AND A SOIL GEOCHEMICAL SURVEY  
OVER PART OF THE RUM PROPERTY

(Rum Mineral Claims 3-7, 49 Units)

MISSEZULA LAKE AREA, SIMILKAMEEN M.D., B.C.

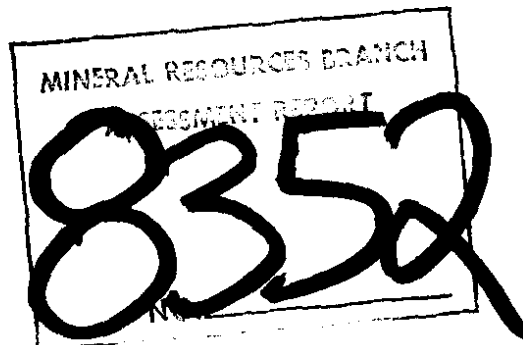
(work performed between July 6 and August 1, 1980)

LATITUDE:  $49^{\circ}44'49''$ N

LONGITUDE:  $120^{\circ}32'56''$ W

REPORT BY:

D.T. MEHNER



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SUMMARY

The Rum property is comprised of 49 units covering an alkaline porphyry copper prospect in the Aspen Grove copper belt of south central B.C. A soil geochemical survey was conducted over part of the property with 224 samples being collected and analyzed for Cu, Pb and Zn. In addition a ground magnetic survey was conducted along 20 grid lines that covered parts of the property. Results of the work indicate a number of small, partially coincident Cu, Pb and Zn soil anomalies that are not related to strong magnetic highs.

It is recommended that a VLF and IP survey be conducted over the property, particularly over the soil anomalies.

INTRODUCTION

The Rum property is an alkaline porphyry copper prospect located in the Aspen Grove copper belt of south central B.C. Work on the property consisted of resurrection of an old grid and a soil geochemical and ground magnetics survey over part of the property.

The work was carried out intermittently from July 6 to August 1, 1980 by M. Fawcett and D. Mehner.

LOCATION AND ACCESS

The Rum mineral claims are located about 32 km north of Princeton B.C. and 21 km south-southeast of Aspen Grove, B.C. Access to the property is obtained by heading east along 7 km of gravel road that leads from Highway 5 to a B.C. Telephone Company microwave station (Plate 1). Access is also obtained by taking the gravel road that goes from Highway 5 to the north end of Missezula Lake (Dillard Main logging road) for 5½ km and then turning right towards Ketchan Lake.

### TOPOGRAPHY AND VEGETATION

The Rum property is situated on the eastern slope and crest of a northerly trending ridge that parallels Summers Creek. Elevations vary from 4000 ft to 5200 ft.

Vegetation is dense with alder, poplar and coniferous trees on the ridge and upper slope and thick underbrush along the slope at lower elevations. Small swamps occur along the ridge crest.

### PROPERTY AND OWNERSHIP

The Rum property is located in the Similkameen Mining Division and is 100% owned by Cominco Ltd. It comprises the following claims:

<u>CLAIM</u>	<u>NUMBER</u>	<u>UNITS</u>	<u>DATE RECORDED</u>	<u>DATE DUE</u>
Rum 3	703	20	Aug. 23/79	Aug.23/80
Rum 4	704	20	Aug. 23/79	Aug.23/80
Rum 5	860	1	Nov. 20/79	Nov.20/80
Rum 6	861	1	Nov. 20/79	Nov.20/80
Rum 7	862	1	Nov. 20/79	Nov.20/80
Rum 7	994	6	Apr. 23/80	Apr.23/81

NOTE: The property was originally staked by Cominco Ltd. as the Rum 1 mineral claims (20 units) on March 20, 1979. It was abandoned in August 1979 and restaked in part as the Rum 3 mineral claim.

### PREVIOUS WORK

In 1962 the property was staked as the 40 unit, K.R. claim group by Plateau Metals Ltd. Bulldozer trenching, a ground magnetics survey and an unknown amount of diamond drilling were carried out on the property. Then in 1966 Adera Mining Ltd. optioned the ground and conducted a soil geochemical and ground magnetics survey followed by diamond drilling before they terminated their option. In 1970 Amax staked the Rum claims and carried out geological mapping, a soil geochemical, ground magnetics and induced polarization survey program. They also percussion drilled 9 holes totalling 1879 ft. before dropping the ground. Kalco Valley Mines Ltd. then optioned the property in 1972 and did some mapping and trench sampling before terminating the option. Ruskin Developments Ltd. acquired the property in 1974 and carried out a copper soil geochemical survey. They have subsequently let claims lapse as they come due.

## GRID PREPARATION

Prior to conducting the soil geochemical and ground magnetics surveys on the property, old grid lines were resurrected by remeasuring and reflagging the lines. The baseline used was the same as the one used by Amax. It was relabeled "00". Stations were established along picket lines at 50 meter intervals with metal tags attached to trees giving the grid co-ordinates. Red and blue flagging was used to readily identify the station locations.

## GEOPHYSICS

A ground magnetics survey was conducted over parts of the property (lines 1200N, 825N, 40S, 45S, 50S, 55S, 60S, 70S, 75S, 80S, 85S, 90S, 95S, 100S, 105S, 110S, 115S, 120S, 125S, 130S) with emphasis put on areas not covered by previous surveys. Readings were taken at 25 meter intervals, All values are listed in Appendix "B" with station locations and contours shown on Plate 2.

The Survey was conducted with a Sintrex MP-2 proton precession magnetometer that measures the earth's total magnetic field to the nearest gamma. Diurnal variation was checked for by establishing three base stations and taking readings at these stations, usually twice a day. Little change in value was observed at the base stations and no corrections were made. The results of the survey indicate a fairly strong, N-S magnetic fabric to the property that does not appear related solely to rock type. However, the linear arrangement of the magnetic highs and lows is parallel to bedding of the volcanoclastic rocks and to major structures on the property that are related to the Summers Creek fault. It is likely that some of these structures and some of the more permeable rock units have acted as aquifers for fluids that have either precipitated magnetite or removed it (altered to hematite) from the country rocks.

In the southern part of the property a fairly large magnetic high is present on the west side of the baseline and a magnetic low on the east side (see Plate 2). This correlates well with the geology which shows a small monzonite plug underlying the magnetic high and andesite flows and volcanoclastics underlying the low.

## GEOCHEMISTRY

A soil geochemical survey was conducted over parts of the Rum property (lines 1200N, 825N, 40S, 45S, 70S, 75S, 80S, 85S, 90S, 95S, 100S, 105S, 110S, 115S, 120S, 125S, 130S) in an attempt to verify anomalies produced by old surveys (Amax, 1971; Ruskin Development, 1976) and to evaluate areas not covered by previous workers.

A total of 224 soil samples were collected at either 50 or 100 meter intervals. All samples were analyzed for Cu, Pb and Zn by Cominco's laboratory in Vancouver. Results are listed in Appendix "C". Sample locations along with contoured maps for individual elements (Cu, Pb, Zn) are shown on Plates 3 to 5. Samples were collected from the "B"

soil horizon whenever it was present, however for the most part soils were very poorly developed and consisted largely of brown wooded earths or rocky clays. The samples were air dried then sieved through 80 mesh screens. Cu, Pb and Zn analysis were made using a hot nitric acid (20%  $\text{NH}_4\text{OH}$ ) digestion followed by atomic absorption. Coefficients of variation are 10-15%.

Results of the survey indicate a number of small, scattered anomalies throughout the property. The values, particularly copper, tend to be low, but this may be largely a reflection of poor soil development.

#### CONCLUSIONS


Work on the property to date has confirmed the presence of a number of small, scattered, copper soil geochemical anomalies. Ground magnetic surveys indicate a strongly developed N-S magnetic fabric for the property that for the most part is not correlatable to rock type. Ground Magnetic values for copper soil anomalies are 100-200 gammas above background indicating the copper minerals are not associated with a strong magnetic high.


#### RECOMMENDATIONS

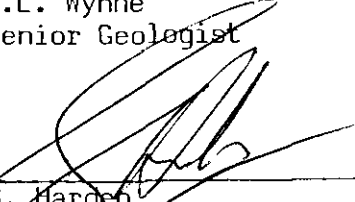
1. An IP survey should be conducted over areas of known mineralization and copper soil anomalies with special emphasis on obtaining depth information.
2. A VLF survey should be conducted over the entire property in an attempt to pick out areas of intense fracturing that hopefully are related to mineralization.

#### REFERENCES

- Christoffersen, J.E., De Paoli, G.M., and Hodgson, C.J., 1971, 1971 Geological, Geochemical and Geophysical Report, Ketchikan Creek Property (Rum Mineral Claims); B.C. Dept. of Mines and Petroleum Resources Assessment Report number 3365.
- Mark, D.G., 1976, Geochemical Report on a Soil Sample Survey, Rum Claim Group, Missezula Lake Area, Similkameen M.D., B.C.; B.C. Dept. of Mines and Petroleum Resources Assessment Report number 6036.
- Sookchohoff, L., 1974, Geological Report on the Rum Claims of Ruskin Development Ltd. (N.P.L.), Similkameen, M.D., B.C., T.R. Tough and Associates Ltd. February 25, 1974.

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DTM/sf

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APPENDIX "A"

STATEMENT OF EXPENDITURES FOR WORK ON THE RUM MINERAL CLAIMS

SALARIES

D. Mehner	- 10 days field @ \$132/day	\$ 1,320.00
	soil sampling: July 6,7,8,13,29,30( $\frac{1}{2}$ day)	
	31, Aug. 2( $\frac{1}{2}$ day)	
	establishing grid: July 4,16,28	
	4 days office @ \$125/day, Aug. 11-14	500.00
M. Fawcett	- 10 days field @ \$93/day	930.00
	soil sampling: July 6,7,8,13	
	establishing grid: July 4	
	Magnetometer survey: July 16,28,29,30( $\frac{1}{2}$ day),	
	31, Aug. 1( $\frac{1}{2}$ day)	
<u>ASSAYS</u>	- Cu, Pb, Zn geochem: 224 soil samples @ \$2.80/ea	627.20
	sample preparation: 224 samples @ 45¢/ea	100.80
<u>MAGNETOMETER RENTAL</u>	- 13 days @ \$10/day	130.00
<u>TRANSPORTATION</u>	- Truck rental plus gas 12 days @ \$37/day	444.00
<u>MISCELLANEOUS</u>	- Sample shipping, sample bags, phone, flagging, base map blow-up etc.	200.00
<u>DOMICILE</u>	- 22 man days @ \$30/man day	660.00
	TOTAL	\$ <u>4,912.00</u>



APPENDIX "B"

RUM PROPERTY, GROUND MAGNETOMETER SURVEY RESULTS

(Readings are of earth's total magnetic field in gammas)

<u>LINE</u>	<u>STATION</u>	<u>READING</u>	<u>LINE</u>	<u>STATION</u>	<u>READING</u>
12N	800W	57313	12N	325E	57250
	775W	57028		350E	57275
	750W	57046		375E	57214
	725W	57037		400E	57139
	700W	57060		425E	57029
	675W	56978		450E	57188
	650W	57062		475E	57270
	625W	56952		500E	57225
	600W	56551			
	575W	57677	825N	1025W	56692
	550W	57883		1000W	56772
	525W	57530		975W	56774
	500W	56717		950W	56817
	475W	56936		925W	56865
	450W	56982		900W	57162
	425W	57051		875W	57096
	400W	57075		850W	56874
	375W	57032		825W	57053
	350W	57184		800W	57508
	325W	57218		775W	57315
	300W	57155		750W	57673
	275W	57069		725W	57482
	250W	57159		700W	57542
	225W	57058		675W	57167
	200W	57128		650W	57126
	175W	56939		625W	56899
	150W	56869		600W	57021
	125W	56566		575W	57008
	100W	56757		550W	57056
	75W	57028		525W	57079
	50W	56920		500W	57075
	25W	57003		475W	57182
	00W	57196		450W	56942
	25E	57206		425W	57004
	50E	57193		400W	57246
	75E	57175		375W	57229
	100E	57089		350W	57034
	125E	57070		325W	57256
	150E	57084		300W	57421
	175E	57151		275W	57191
	200E	57218		250W	57071
	225E	57209		225W	57110
	250E	57224		200W	57094
	275E	57146		175W	57115
	300E	57083		150W	57229

<u>LINE</u>	<u>STATION</u>	<u>READING</u>	<u>LINE</u>	<u>STATION</u>	<u>READING</u>
825N	125W	57172	175W	56917	
(con't)	100W	57123	150W	56946	
	75W	57142	125W	57043	
	50W	57190	100W	57084	
	25W	57115	75W	57183	
	00	57053	50W	57237	
	25E	57215	25W	57136	
	50E	57325	00	57536	
	75E	57052	25E	57543	
	100E	56984	50E	57171	
	125E	57022	75E	57114	
	150E	57087	100E	57198	
	175E	57063			
	200E	57058	45S	950W	56746
	225E	57003		925W	56646
	250E	57077		900W	57937
	275E	57047		875W	56566
	300E	57035		850W	56244
				825W	56871
40S	950W	57400		800W	56831
	925W	57259		775W	57091
	900W	57460		750W	57096
	875W	57269		725W	57144
	850W	57291		700W	57167
	825W	57282		675W	57346
	800W	56996		650W	57221
	775W	57117		625W	57134
	750W	57248		600W	57452
	725W	57379		575W	57092
	700W	56988		550W	57590
	675W	56377		525W	57169
	650W	56630		500W	57755
	625W	56446		475W	57853
	600W	57732		450W	57165
	575W	57825		425W	57138
	550W	57387		400W	57216
	525W	57679		375W	57199
	500W	57695		350W	57090
	475W	57119		325W	57716
	450W	57526		300W	57723
	425W	57538		275W	56931
	400W	57384		250W	57494
	375W	57535		225W	56939
	350W	57725		200W	57322
	325W	57816		175W	57167
	300W	58179		150W	57146
	275W	57838		125W	57289
	250W	57343		100W	57123
	225W	57215		75W	57126
	200W	57121		50W	57194

LINE	STATION	READING
45S	25W	57015
	00	57000
	25E	57029
	50E	57208
	75E	57030
	100E	56997
	125E	56978
	150E	56984
	175E	56988
	200E	57028
	225E	57038
	250E	57282
	275E	57083
	300E	57054
	325E	57110
	350E	57036
	375E	57037
	400E	57040
	425E	57026
	450E	57046
475E	57059	
500E	57079	
50S	950W	56997
	925W	57681
	900W	57692
	875W	57241
	850W	57240
	825W	57136
	800W	57541
	775W	57017
	750W	57573
	725W	56670
	700W	57111
	675W	57874
	650W	57145
	625W	56651
	600W	56874
	575W	57443
	550W	56962
	525W	56790
	500W	57307
	475W	57348
450W	57593	
425W	57438	
400W	57580	
375W	57840	
350W	57239	
325W	58125	
300W	57829	
275W	57497	
250W	57122	
225W	57063	
200W	56892	

LINE	STATION	READING
	175W	56889
	150W	56868
	125W	56878
	100W	57652
	75W	57705
	50W	58213
	25W	57683
	00	56980
	25E	57175
	50E	56892
	75E	57062
	100E	56986
	125E	57032
	150E	57064
	175E	57004
	200E	57100
	225E	57038
	250E	57086
	275E	57084
	300E	57075
325E	57076	
350E	57054	
375E	57070	
400E	57057	
425E	57079	
450E	57066	
475E	57064	
500E	57058	
55S	950W	57408
	925W	57357
	900W	57427
	875W	57197
	850W	57472
	825W	58352
	800W	59036
	775W	58333
	750W	57148
	725W	57010
	700W	57045
	675W	56886
	650W	56887
	625W	57327
	600W	57220
	575W	57388
	550W	57288
	525W	57137
	500W	57502
	475W	57214
450W	57557	
425W	58323	
400W	58682	
375W	58342	
350W	58327	

LINE	STATION	READING
55S	325W	57991
	300W	57058
	275W	57396
	250W	57305
	225W	57248
	200W	56538
	175W	56614
	150W	56741
	125W	56784
	100W	57085
	75W	57773
	50W	57417
	25W	57533
	00	56991
	25E	57055
	50E	57048
	75E	57014
	100E	57013
	125E	57075
	150E	57021
	175E	57076
	200E	57097
	225E	57030
	250E	57077
	275E	57042
	300E	57025
	325E	57049
	350E	57298
	375E	57040
	400E	57003
	425E	57038
	450E	57033
	475E	57010
500E	57023	
60S	125W	56901
	100W	56813
	75W	57543
	50W	57393
	25W	56963
	00	56931
	25E	57018
	50E	57079
	75E	56998
	100E	56949
	125E	57186
	150E	57005
	175E	57017
	200E	56994
	225E	57004
	250E	57051
	275E	57056
300E	57010	

LINE	STATION	READING	
	325E	57043	
	350E	57095	
	375E	57090	
	400E	57004	
	425E	57000	
	450E	57024	
	475E	57103	
	500E	57077	
	70S	200W	57175
		175W	57113
		150W	57254
		125W	57158
		100W	57306
		75W	57201
		50W	57163
		25W	57182
		00	57115
25E		57101	
50E		57192	
75E		57095	
100E		57146	
125E		57030	
150E		57070	
175E		57032	
200E		57030	
225E	57069		
250E	57086		
275E	57009		
300E	57029		
325E	57047		
350E	57041		
375E	57009		
400E	57023		
425E	57050		
450E	57033		

<u>LINE</u>	<u>STATION</u>	<u>READING</u>
75S	150W	57347
	125W	57316
	100W	57238
	75W	57185
	50W	57234
	25W	57166
	00	57182
	25E	57084
	50E	57038
	75E	57056
	100E	57097
	125E	57115
	150E	57129
	175E	57122
	200E	57094
	225E	57061
	250E	57162
	275E	57235
	300E	57031
	325E	57056
	350E	57086
	375E	57012
	400E	57032
	425E	57055
	450E	57102
	80S	50W
25W		57113
00		57204
25E		57144
50E		57151
75E		57137
100E		57114
125E		57120
150E		57101
175E		57097
200E		57092
225E		57082
250E		57097
275E		57092
300E		57074
325E		57087
350E	57089	
375E	57047	
400E	57081	
425E	57054	
450E	57117	

<u>LINE</u>	<u>STATION</u>	<u>READING</u>
85S	00	57959
	25E	57726
	50E	57333
	75E	57193
	100E	57073
	125E	57209
	150E	57218
	175E	57198
	200E	57178
	225E	57164
	250E	57126
	275E	57115
	300E	57150
	325E	57127
	350E	57113
	375E	57128
	400E	57086
	425E	57066
	450E	57100
	475E	57089
500E	57086	
90S	00	57189
	25E	57262
	50E	57206
	75E	57141
	100E	57188
	125E	57192
	150E	57182
	175E	57222
	200E	57261
	225E	57205
	250E	57136
	275E	57159
	300E	57153
	325E	57143
350E	57201	
375E	57113	
400E	57085	
425E	57045	
450E	57055	
475E	57085	
500E	57156	

LINE	STATION	READING
95S	00	57234
	25E	57224
	50E	57397
	75E	57170
	100E	57217
	125E	57229
	150E	57211
	175E	57238
	200E	57214
	225E	57193
	250E	57193
	275E	57194
	300E	57186
	325E	57134
	350E	57154
	375E	57104
	400E	57128
	425E	57070
	450E	57064
	475E	57109
500E	57071	
100S	150W	57037
	125W	57050
	100W	57103
	75W	57187
	50W	57062
	25W	57128
	00	57127
	25E	57109
	50E	57210
	75E	57579
	100E	57393
	125E	57340
	150E	57227
	175E	57170
	200E	57111
	225E	57185
	250E	57184
275E	57117	
300E	57131	
105S	500W	58090
	475W	57975
	450W	57738
	425W	57743
	400W	57221
	375W	57120
	350W	57464
	325W	56922
300W	57266	

LINE	STATION	READING
	275W	57572
	250W	57662
	225W	58049
	200W	58121
	175W	58230
	150W	57354
	125W	57254
	100W	57301
	75W	57159
	50W	57003
	25W	56980
	00	56950
	25E	----
	50E	56918
	75E	57027
	100E	56984
	125E	56979
	150E	57015
	175E	57024
	200E	57113
	225E	57063
	250E	57060
	275E	57038
	300E	57002
	325E	57050
	350E	57106
	375E	57105
	400E	57038
	425E	57137
	450E	57176
	475E	57031
	500E	57037

LINE	STATION	READING
110S	500W	57939
	475W	57390
	450W	57365
	425W	57337
	400W	57346
	375W	57540
	350W	57473
	325W	57640
	300W	57317
	275W	57344
	250W	57386
	225W	57278
	200W	57250
	175W	57287
	150W	57695
	125W	57275
	100W	57456
	75W	57106
	50W	56963
	25W	57419
	00	57387
	25E	57243
	50E	57113
	75E	57130
	100E	57136
	125E	56666
	150E	56746
	175E	56861
	200E	56866
	225E	56926
	250E	56960
	275E	56944
	300E	56926
	325E	56921
	350E	56945
	375E	57008
	400E	56975
	425E	56998
	450E	57090
	475E	57090
	500E	57098
	525E	57093
	550E	57290
	575E	57442
	600E	57303

LINE	STATION	READING
115S	00	57173
	25E	57123
	50E	57365
	75E	57677
	100E	57275
	125E	57084
	150E	57826
	175E	57522
	200E	56899
	225E	57623
	250E	57126
	275E	56982
	300E	57132
	325E	56990
	350E	56998
	375E	56946
	400E	56968
	425E	56966
	450E	57038
	475E	57073
	500E	57171
	525E	57134
	550E	57356
	575E	57171
	600E	57299

LINE	STATION	READING
120S	500W	57545
	475W	57364
	450W	57247
	425W	57208
	400W	57794
	375W	57813
	350W	57460
	325W	58787
	300W	58263
	275W	58071
	250W	57953
	225W	57558
	200W	58028
	175W	57896
	150W	58078
	125W	57558
	100W	58158
	75W	58157
	50W	58091
	25W	57835
	00	57361
	25E	58092
	50E	57685
	75E	57733
	100E	57893
	125E	57093
	150E	56591
	175E	56775
	200E	56791
	225E	56777
	250E	56812
	275E	56773
	300E	57277
325E	56990	
350E	57164	
375E	57122	
400E	57010	
425E	56961	
450E	57052	
475E	57052	
500E	57081	
525E	57099	
550E	57141	
575E	57214	
600E	57201	

125S	500W	57942
	475W	58082
	450W	57405
	425W	57605
	400W	57571
	387W	57913
	375W	58819
	350W	58860

LINE	STATION	READING
	325W	57985
	300W	58121
	275W	57858
	250W	57964
	225W	58279
	200W	57786
	187W	58115
	175W	59052
	150W	58525
	125W	58284
	100W	58322
	75W	58005
	50W	58079
	25W	57966
	00	58130
	25E	58127
	50E	57145
	75E	56910
	100E	57071
	125E	56922
	150E	56886
	175E	56878
	200E	56940
	225E	56905
	250E	57022
	275E	56932
	300E	57039
	325E	56947
	350E	56888
	375E	56992
	400E	56966
	425E	56993
	450E	57041
475E	57069	
500E	57160	
525E	57162	
550E	57179	
575E	57209	
600E	57277	



<u>LINE</u>	<u>STATION</u>	<u>READING</u>
130S	00	57337
	25E	57934
	50E	57466
	75E	57376
	100E	57090
	125E	57264
	150E	57222
	175E	57368
	200E	57506
	225E	57271
	250E	56867
	275E	56967
	300E	57016
	325E	57005
	350E	56966
	375E	56977
	400E	56904
	425E	56955
	450E	56970
	475E	57013
	500E	57012
	525E	57050
	550E	57046
	575E	57082
	600E	57201

1. Survey was done with a Scintrex MP-2 precession magnetometer that measures the earths total magnetic field in gammas.

NOTE: See Plate 2 for contoured map of ground magnetic survey

RUM PROPERTY, SOIL GEOCHEMICAL SURVEY RESULTS

(all Values are in ppm)

<u>GRID LOCATION</u>	<u>Cu</u>	<u>Pb</u>	<u>Zn</u>	<u>GRID LOCATION</u>	<u>Cu</u>	<u>Pb</u>	<u>Zn</u>
1200N/800W	17	<4	46	70S/200W	71	10	117
700W	34	<4	69	150W	39	6	103
600W	53	<4	53	100W	132	8	144
500W	15	<4	34	50W	70	14	222
400W	17	<4	53	00	169	9	145
300W	38	<4	29	50E	139	8	116
150W	43	<4	72	100E	54	<4	97
00	24	<4	70	150E	48	5	110
100E	17	<4	36	200E	67	7	100
166E	15	<4	51	250E	45	6	97
300E	22	<4	41	300E	30	10	157
400E	16	<4	44	350E	48	61	216
				450E	23	4	109
825N/1000W	24	<4	26	75S/200W	29	4	52
900W	23	<4	37	150W	46	10	117
800W	25	<4	35	100W	55	5	65
710W	29	<4	37	50W	172	4	73
600W	26	<4	46	00	69	12	149
500W	37	<4	58	50E	153	9	108
400W	78	<4	38	150E	50	5	91
300W	21	<4	47	200E	50	6	110
200W	21	<4	62	250E	63	7	125
100W	30	<4	41	300E	39	7	125
50W	23	<4	38	350E	42	45	217
50E	22	6	54	400E	25	5	134
150E	15	<4	48				
250E	25	<4	40	80S/250W	51	5	41
40S/200W	67	4	82	200W	34	6	64
150W	39	4	47	150W	125	8	134
100W	33	4	112	100W	171	10	133
50W	72	14	125	50W	53	5	122
00	64	6	142	00	49	9	98
50E	25	5	76	100E	47	7	99
100E	54	7	119	150E	43	6	89
150E	46	6	96	200E	17	6	189
200E	52	6	114	250E	67	5	112
250E	65	4	89	300E	65	8	174
300E	38	5	71	350E	46	7	145
				400E	30	7	108
				450E	37	7	133
45S/200W	41	9	125	85S/100W	39	5	107
150W	78	13	119	50W	46	6	115
110W	44	5	53	00	86	8	157
40W	112	11	141	50E	137	8	88
00	207	8	114	150E	35	8	111
50E	497	7	277	200E	44	7	302
190E	58	4	80	250E	35	5	124
250E	32	4	93	300E	40	5	126
285E	28	4	98	350E	42	5	127
				400E	71	8	144

	<u>Cu</u>	<u>Pb</u>	<u>Zn</u>		<u>Cu</u>	<u>Pb</u>	<u>Zn</u>
85S/450E	28	6	93	110S/500W	17	<4	37
500E	21	7	112	400W	20	<4	48
				250W	21	<4	53
90S/100W	31	<4	72	200W	19	<4	58
50W	33	<4	58	100W	22	5	59
00	77	5	75	00	22	4	49
50E	59	5	76	50E	27	<4	85
100E	18	5	103	100E	46	6	77
150E	79	5	77	200E	24	<4	38
200E	54	10	111	250E	32	5	78
250E	46	6	120	300E	72	<4	51
300E	52	5	109	400E	47	6	131
350E	57	8	116	450E	34	4	150
400E	68	6	118	500E	45	4	92
450E	77	8	180	550E	36	<4	72
500E	28	4	71				
				115S/ 00	28	<4	74
95S/ 00	56	6	100	50E	64	11	147
50E	46	4	57	100E	76	5	57
100E	27	4	39	150E	84	6	96
150E	167	<4	70	200E	107	<4	48
200E	42	4	76	250E	30	<4	46
250E	30	7	77	300E	32	4	79
300E	38	7	127	350E	31	<4	100
350E	42	5	121	400E	35	6	133
400E	42	5	127	450E	22	4	85
450E	43	8	166				
500E	60	7	109	120S/500W	24	<4	49
				400W	24	<4	59
100S/150W	49	5	62	300W	15	<4	40
100W	73	6	97	200W	28	<4	44
50W	38	4	66	100W	29	<4	58
00	26	<4	58	50W	40	<4	60
50E	49	4	60	00	30	4	65
100E	45	4	54	50E	33	<4	45
150E	347	<4	39	100E	33	<4	78
200E	80	<4	50	150E	23	<4	93
250E	30	6	147	200E	53	5	80
300E	42	7	138	250E	67	<4	44
				300E	26	<4	60
105S/500W	26	<4	43	350E	27	<4	51
400W	23	<4	49	400E	22	<4	71
300W	28	<4	59	450E	38	5	99
200W	45	<4	60	500E	23	<4	95
100W	30	4	70	550E	22	<4	109
50W	100	8	97	600E	32	<4	76
00	141	4	95				
50E	37	<4	56	125S/500W	22	<4	39
100E	30	4	50	400W	21	<4	55
150E	46	<4	54	300W	15	<4	34
200E	28	<4	76	200W	29	<4	65
250E	27	5	100	100W	34	<4	54
300E	56	<4	61	50W	14	<4	46
350E	34	4	105	00	25	<4	47
400E	37	4	119				
450E	35	<4	70				

	<u>Cu</u>	<u>Pb</u>	<u>Zn</u>
125S/ 50E	23	44	61
100E	31	44	67
150E	198	5	66
200E	52	4	88
250E	54	44	62
300E	28	44	64
450E	14	44	70
500E	22	44	79
550E	29	44	56
600E	21	44	90
130S/ 00	19	44	56
50E	26	44	45
100E	39	5	56
150E	39	4	81
200E	137	6	75
250E	46	44	102
300E	46	5	56
350E	47	44	88
400E	50	4	76
450E	45	44	78
500E	43	44	65
550E	37	44	75
600E	23	44	67
-----			
Averages	49		87

Note: All geochem analysis were conducted at Cominco's laboratory in Vancouver, B.C. The procedure used to determine Cu, Pb and Zn involves sample digestion by hot, 20% HNO<sub>3</sub> followed by atomic absorption. Coefficients of variation are 10 - 15%.

APPENDIX "D"

COMINCO LTD.

EXPLORATION

WESTERN DISTRICT

STATEMENT OF QUALIFICATIONS

I, DAVID T. MEHNER, OF THE CITY OF VERNON, BRITISH COLUMBIA, HEREBY CERTIFY:

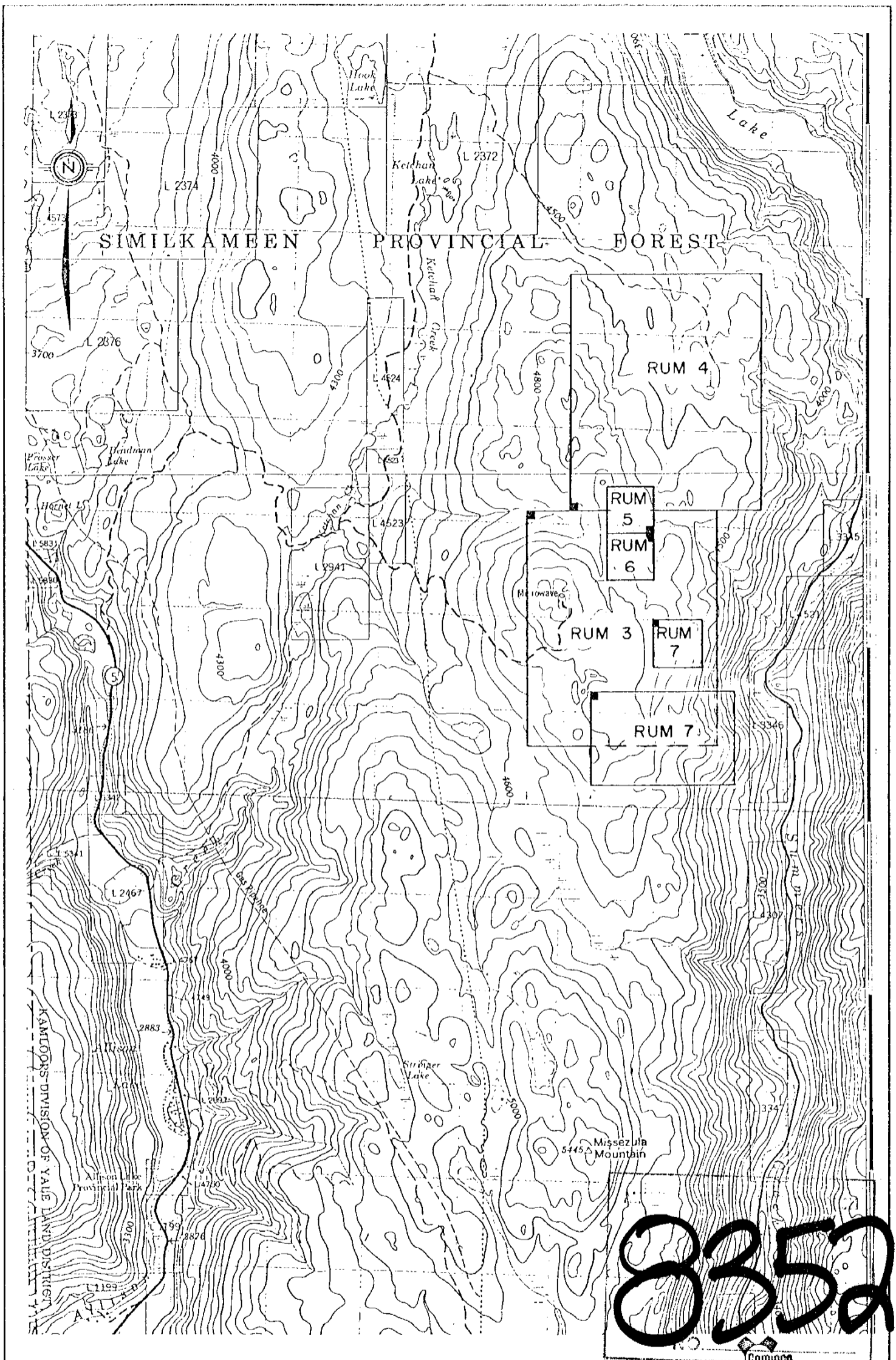
1. THAT I AM A GEOLOGIST RESIDING AT 206 - 4100 ALEXIS PARK DRIVE, VERNON, BRITISH COLUMBIA, WITH A BUSINESS ADDRESS AT 4405 - 28 STREET, VERNON, BRITISH COLUMBIA.
2. THAT I GRADUATED WITH A B.Sc. HON. DEGREE IN GEOLOGY FROM THE UNIVERSITY OF MANITOBA, 1976.
3. THAT I HAVE PRACTISED GEOLOGY WITH COMINCO LTD. FROM OCTOBER 1979 TO PRESENT AND AS SUCH HAVE A PERSONAL KNOWLEDGE OF THE FACTS WHICH I HEREINAFTER DEPOSE.

DATED THIS 19th day of August, 1980 at Vernon, British Columbia.

Signed



David T. Mehner



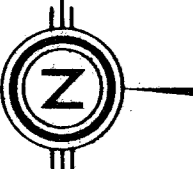
TULAMEEN & ASPEN GROVE MAP SHEETS 92 H/10, 15

Drawn by:		Traced by: RAR	
Revised by	Date	Revised by	Date

## RUM PROPERTY Claim Location Map

Scale: 1:50,000      Date: April 10, 1980      Plate: /

835A

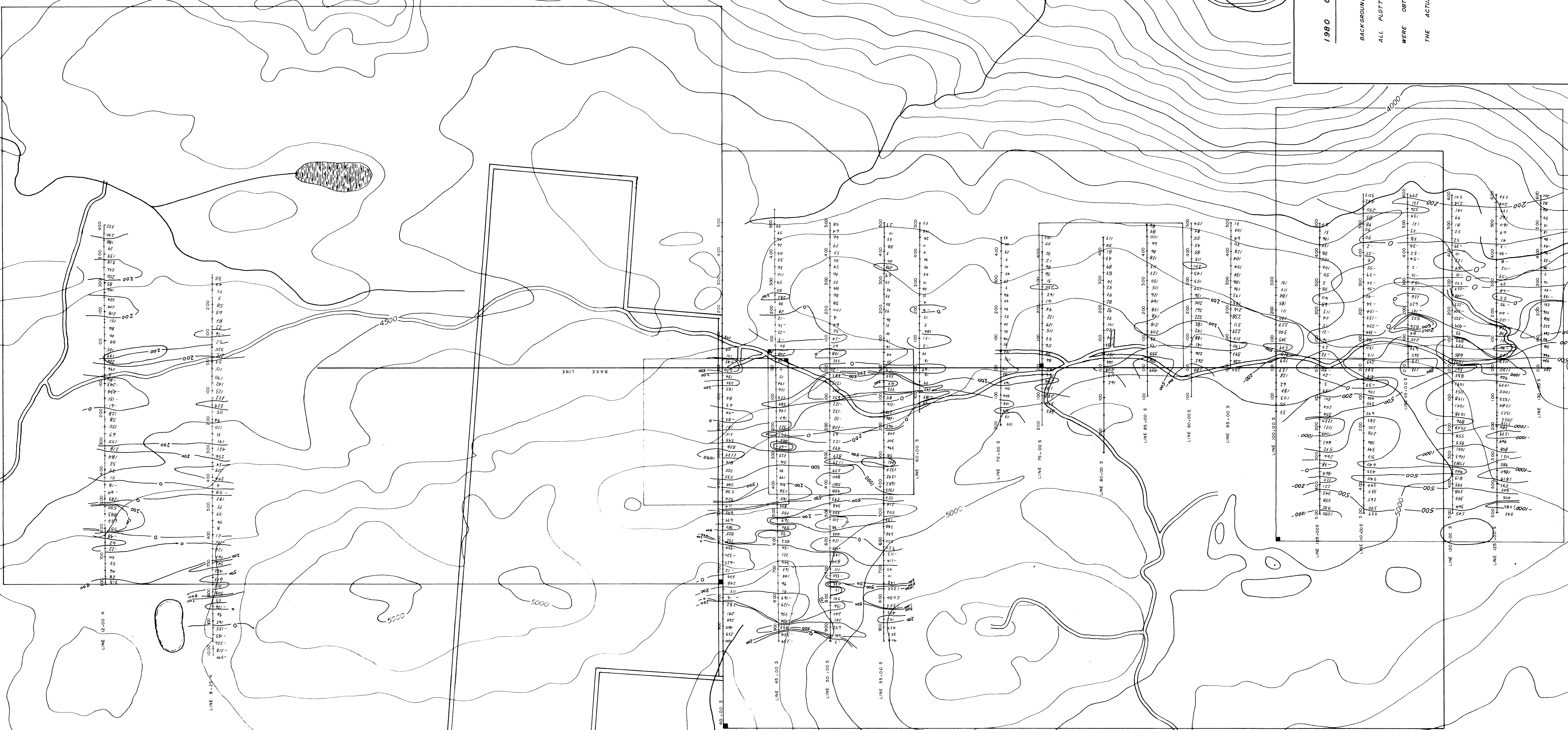
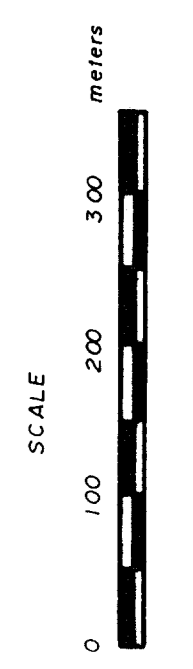


1980 GROUND MAGNETOMETER SURVEY

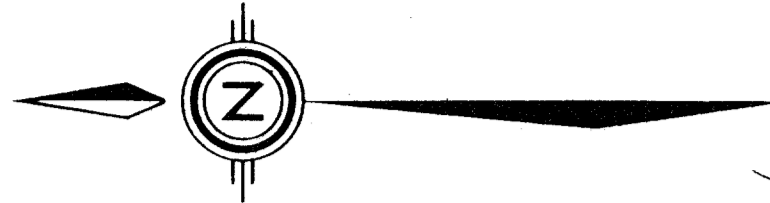
BACKGROUND WAS 57,000 GAMMAS

ALL PLOTTED AND CONTOURED VALUES (in gammas)

WERE OBTAINED BY SUBTRACTING 57,000 FROM THE ACTUAL FIELD READING.



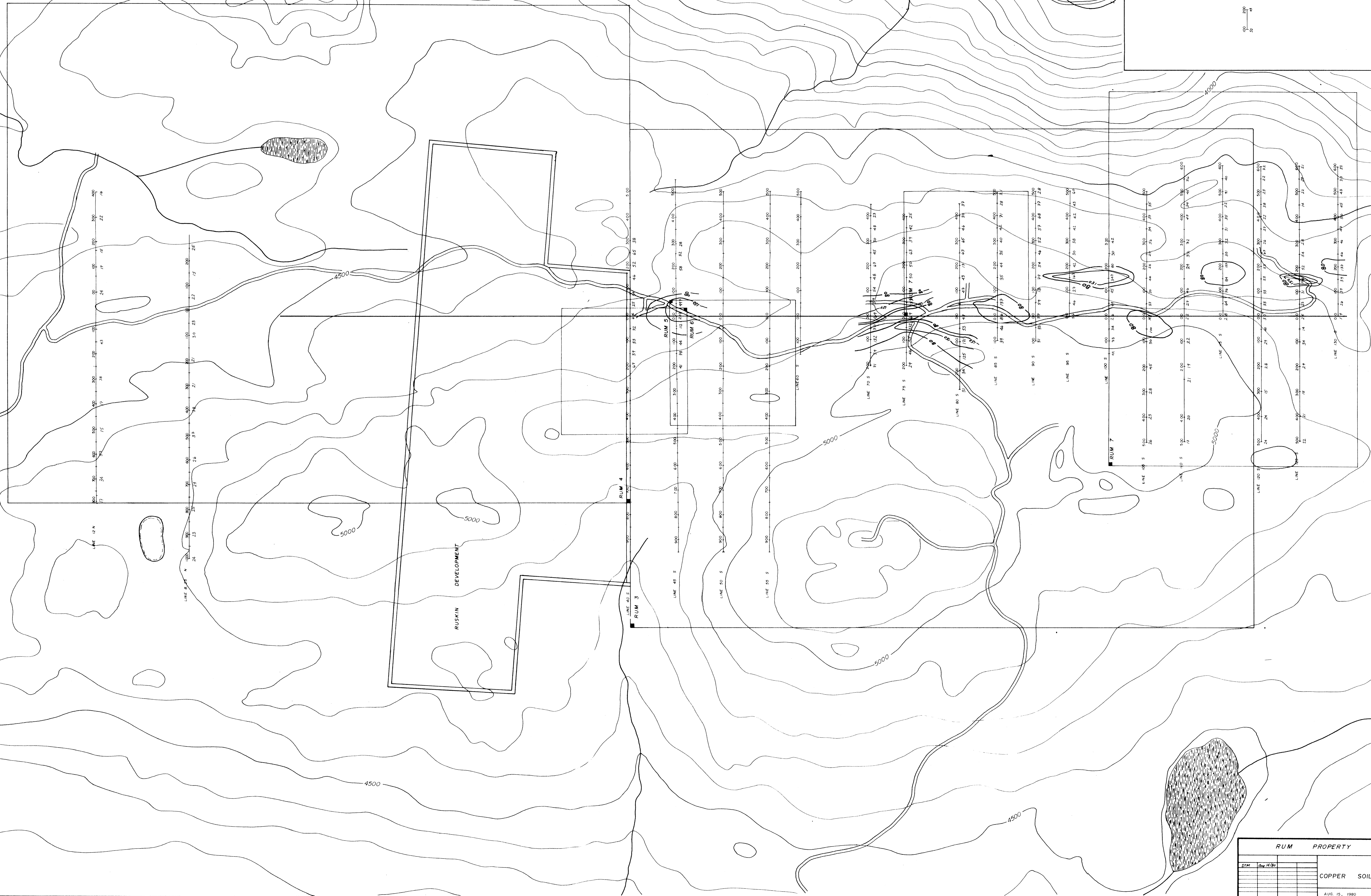
RUM PROPERTY		92H/1015
DATE	BY	
GROUND MAGNETICS SURVEY		
AUG 13, 1980	1:5000	PLATE 2



8358

SCALE (in meters)  
0 50 100 200

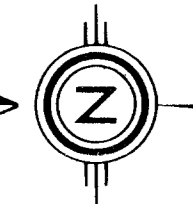
SAMPLE LOCATION (see column)  
COPPER SOIL VALUE (in ppm/l)



RUM PROPERTY		92H/10 8/15
DIST	CH/MS	
COPPER SOIL GEOCHEMISTRY		
AUG 15, 1980		1:5000
		PLATE 3

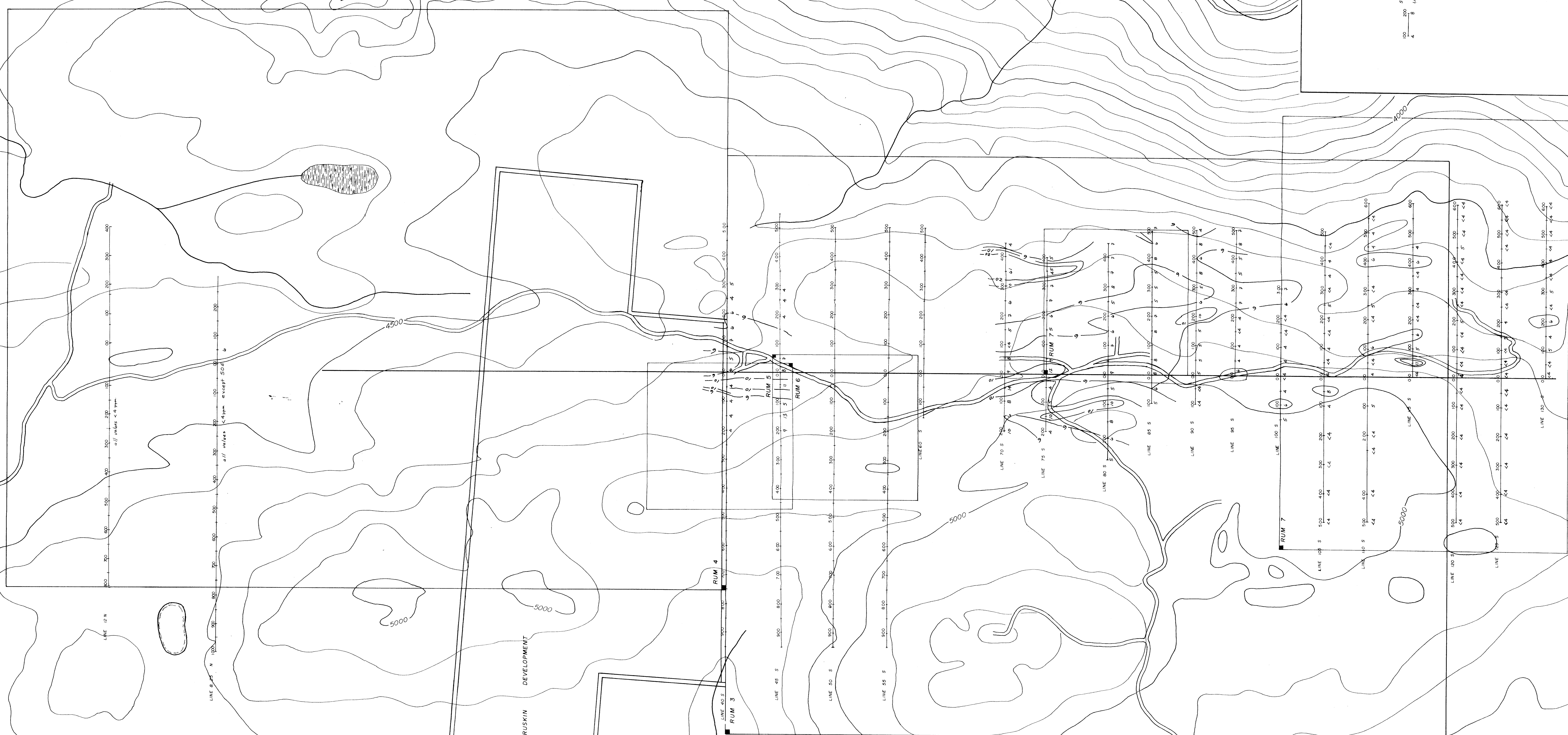


8352a



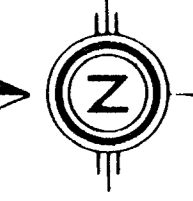
SAMPLE LOCATION (from reference)  
LEAD SOIL VALUE (in ppm)

SCALE (in feet)  
0 100 200 300



RUM PROPERTY		LEAD SOIL GEOCHEMISTRY	
LINE	Sample #/ft	Value	Unit
LINE 45 S	1	0.00	ppm
LINE 45 S	2	0.00	ppm
LINE 45 S	3	0.00	ppm
LINE 45 S	4	0.00	ppm
LINE 45 S	5	0.00	ppm
LINE 45 S	6	0.00	ppm
LINE 45 S	7	0.00	ppm
LINE 45 S	8	0.00	ppm
LINE 45 S	9	0.00	ppm
LINE 45 S	10	0.00	ppm
LINE 45 S	11	0.00	ppm
LINE 45 S	12	0.00	ppm
LINE 45 S	13	0.00	ppm
LINE 45 S	14	0.00	ppm
LINE 45 S	15	0.00	ppm
LINE 45 S	16	0.00	ppm
LINE 45 S	17	0.00	ppm
LINE 45 S	18	0.00	ppm
LINE 45 S	19	0.00	ppm
LINE 45 S	20	0.00	ppm
LINE 45 S	21	0.00	ppm
LINE 45 S	22	0.00	ppm
LINE 45 S	23	0.00	ppm
LINE 45 S	24	0.00	ppm
LINE 45 S	25	0.00	ppm
LINE 45 S	26	0.00	ppm
LINE 45 S	27	0.00	ppm
LINE 45 S	28	0.00	ppm
LINE 45 S	29	0.00	ppm
LINE 45 S	30	0.00	ppm
LINE 45 S	31	0.00	ppm
LINE 45 S	32	0.00	ppm
LINE 45 S	33	0.00	ppm
LINE 45 S	34	0.00	ppm
LINE 45 S	35	0.00	ppm
LINE 45 S	36	0.00	ppm
LINE 45 S	37	0.00	ppm
LINE 45 S	38	0.00	ppm
LINE 45 S	39	0.00	ppm
LINE 45 S	40	0.00	ppm
LINE 45 S	41	0.00	ppm
LINE 45 S	42	0.00	ppm
LINE 45 S	43	0.00	ppm
LINE 45 S	44	0.00	ppm
LINE 45 S	45	0.00	ppm
LINE 45 S	46	0.00	ppm
LINE 45 S	47	0.00	ppm
LINE 45 S	48	0.00	ppm
LINE 45 S	49	0.00	ppm
LINE 45 S	50	0.00	ppm
LINE 45 S	51	0.00	ppm
LINE 45 S	52	0.00	ppm
LINE 45 S	53	0.00	ppm
LINE 45 S	54	0.00	ppm
LINE 45 S	55	0.00	ppm
LINE 45 S	56	0.00	ppm
LINE 45 S	57	0.00	ppm
LINE 45 S	58	0.00	ppm
LINE 45 S	59	0.00	ppm
LINE 45 S	60	0.00	ppm
LINE 45 S	61	0.00	ppm
LINE 45 S	62	0.00	ppm
LINE 45 S	63	0.00	ppm
LINE 45 S	64	0.00	ppm
LINE 45 S	65	0.00	ppm
LINE 45 S	66	0.00	ppm
LINE 45 S	67	0.00	ppm
LINE 45 S	68	0.00	ppm
LINE 45 S	69	0.00	ppm
LINE 45 S	70	0.00	ppm
LINE 45 S	71	0.00	ppm
LINE 45 S	72	0.00	ppm
LINE 45 S	73	0.00	ppm
LINE 45 S	74	0.00	ppm
LINE 45 S	75	0.00	ppm
LINE 45 S	76	0.00	ppm
LINE 45 S	77	0.00	ppm
LINE 45 S	78	0.00	ppm
LINE 45 S	79	0.00	ppm
LINE 45 S	80	0.00	ppm
LINE 45 S	81	0.00	ppm
LINE 45 S	82	0.00	ppm
LINE 45 S	83	0.00	ppm
LINE 45 S	84	0.00	ppm
LINE 45 S	85	0.00	ppm
LINE 45 S	86	0.00	ppm
LINE 45 S	87	0.00	ppm
LINE 45 S	88	0.00	ppm
LINE 45 S	89	0.00	ppm
LINE 45 S	90	0.00	ppm
LINE 45 S	91	0.00	ppm
LINE 45 S	92	0.00	ppm
LINE 45 S	93	0.00	ppm
LINE 45 S	94	0.00	ppm
LINE 45 S	95	0.00	ppm
LINE 45 S	96	0.00	ppm
LINE 45 S	97	0.00	ppm
LINE 45 S	98	0.00	ppm
LINE 45 S	99	0.00	ppm
LINE 45 S	100	0.00	ppm

8352



SAMPLE LOCATION (per contour)  
ZINC SOIL VALUE (in ppm.)

SCALE (in feet)  
0 100 200 300



RUM PROPERTY 92H/10  
8/13

ZINC SOIL GEOCHEMISTRY

AUG 15, 1980 1:5000 PLATE 5

LINE	POINT	ZINC VALUE (ppm)
LINE 45 S	45	120
LINE 45 S	46	110
LINE 45 S	47	100
LINE 45 S	48	90
LINE 45 S	49	80
LINE 45 S	50	70
LINE 45 S	51	60
LINE 45 S	52	50
LINE 45 S	53	40
LINE 45 S	54	30
LINE 45 S	55	20
LINE 45 S	56	10
LINE 45 S	57	5
LINE 45 S	58	2
LINE 45 S	59	1
LINE 45 S	60	0
LINE 45 S	61	0
LINE 45 S	62	0
LINE 45 S	63	0
LINE 45 S	64	0
LINE 45 S	65	0
LINE 45 S	66	0
LINE 45 S	67	0
LINE 45 S	68	0
LINE 45 S	69	0
LINE 45 S	70	0
LINE 45 S	71	0
LINE 45 S	72	0
LINE 45 S	73	0
LINE 45 S	74	0
LINE 45 S	75	0
LINE 45 S	76	0
LINE 45 S	77	0
LINE 45 S	78	0
LINE 45 S	79	0
LINE 45 S	80	0
LINE 45 S	81	0
LINE 45 S	82	0
LINE 45 S	83	0
LINE 45 S	84	0
LINE 45 S	85	0
LINE 45 S	86	0
LINE 45 S	87	0
LINE 45 S	88	0
LINE 45 S	89	0
LINE 45 S	90	0
LINE 45 S	91	0
LINE 45 S	92	0
LINE 45 S	93	0
LINE 45 S	94	0
LINE 45 S	95	0
LINE 45 S	96	0
LINE 45 S	97	0
LINE 45 S	98	0
LINE 45 S	99	0
LINE 45 S	100	0
LINE 45 S	101	0
LINE 45 S	102	0
LINE 45 S	103	0
LINE 45 S	104	0
LINE 45 S	105	0
LINE 45 S	106	0
LINE 45 S	107	0
LINE 45 S	108	0
LINE 45 S	109	0
LINE 45 S	110	0
LINE 45 S	111	0
LINE 45 S	112	0
LINE 45 S	113	0
LINE 45 S	114	0
LINE 45 S	115	0
LINE 45 S	116	0
LINE 45 S	117	0
LINE 45 S	118	0
LINE 45 S	119	0
LINE 45 S	120	0
RUM 3	3	120
RUM 3	4	110
RUM 3	5	100
RUM 3	6	90
RUM 3	7	80
RUM 3	8	70
RUM 3	9	60
RUM 3	10	50
RUM 3	11	40
RUM 3	12	30
RUM 3	13	20
RUM 3	14	10
RUM 3	15	5
RUM 3	16	2
RUM 3	17	1
RUM 3	18	0
RUM 3	19	0
RUM 3	20	0
RUM 3	21	0
RUM 3	22	0
RUM 3	23	0
RUM 3	24	0
RUM 3	25	0
RUM 3	26	0
RUM 3	27	0
RUM 3	28	0
RUM 3	29	0
RUM 3	30	0
RUM 3	31	0
RUM 3	32	0
RUM 3	33	0
RUM 3	34	0
RUM 3	35	0
RUM 3	36	0
RUM 3	37	0
RUM 3	38	0
RUM 3	39	0
RUM 3	40	0
RUM 3	41	0
RUM 3	42	0
RUM 3	43	0
RUM 3	44	0
RUM 3	45	0
RUM 3	46	0
RUM 3	47	0
RUM 3	48	0
RUM 3	49	0
RUM 3	50	0
RUM 3	51	0
RUM 3	52	0
RUM 3	53	0
RUM 3	54	0
RUM 3	55	0
RUM 3	56	0
RUM 3	57	0
RUM 3	58	0
RUM 3	59	0
RUM 3	60	0
RUM 3	61	0
RUM 3	62	0
RUM 3	63	0
RUM 3	64	0
RUM 3	65	0
RUM 3	66	0
RUM 3	67	0
RUM 3	68	0
RUM 3	69	0
RUM 3	70	0
RUM 3	71	0
RUM 3	72	0
RUM 3	73	0
RUM 3	74	0
RUM 3	75	0
RUM 3	76	0
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