

LOG NO: DEC 04 1991	RD.
ACTION:	
FILE NO:	

EXPLORATION  
NTS 93A/14E-15W

COMINCO LTD.

WESTERN CANADA  
NOVEMBER 1991

SUB-RECORDER  
RECEIVED  
NOV 26 1991  
M.R. # ..... \$ .....  
VANCOUVER, B.C.

ASSESSMENT REPORT  
GEOLOGY, GEOCHEMISTRY  
MAE CLAIMS

CARIBOO MINING DISTRICT

LATITUDE 52 47'

LONGITUDE 121 00'

WORK PERFORMED:  
JUNE 15-AUGUST 19, 1991

OWNED BY:  
COMINCO LTD.  
\*700-409 Granville St.  
Vancouver, B.C.  
V6C 1T2

REPORT BY:  
DUNHAM L. CRAIG  
GEOLOGIST

GEOLOGICAL BRANCH  
ASSESSMENT REPORT

21,886

**MAE PROPERTY**  
**1991 ASSESSMENT REPORT**  
**TABLE OF CONTENTS**

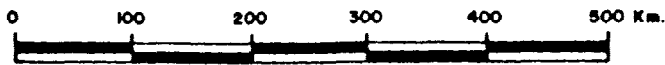
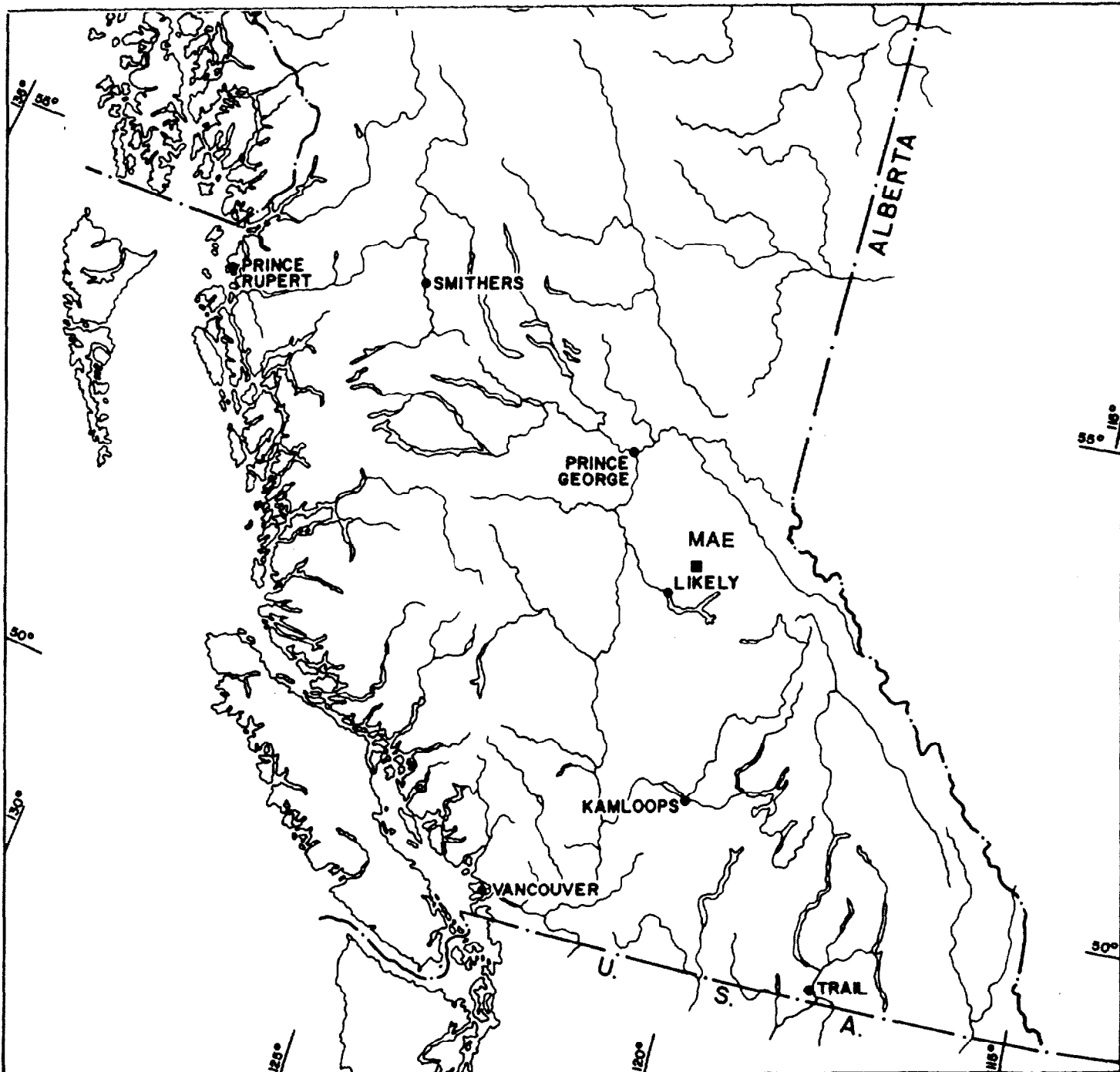
1.0 Introduction.....1  
2.0 Summary.....1  
3.0 Property & Ownership.....1  
4.0 Location, Access & Physiography.....2  
5.0 History & Development.....2  
6.0 Regional Geology.....2  
7.0 Property Geology.....3  
8.0 Geochemistry.....3  
9.0 Conclusions & Recommendations.....4

**ATTACHMENTS**

Appendix A	Statement of Expenditures
B	Affidavit
C	Rock & Soil Geochemistry

**LIST OF PLATES**

Plate 1	Geology	<u>Scale</u> 1:2500
2	Pb,Zn Soil Geochemistry	1:2500



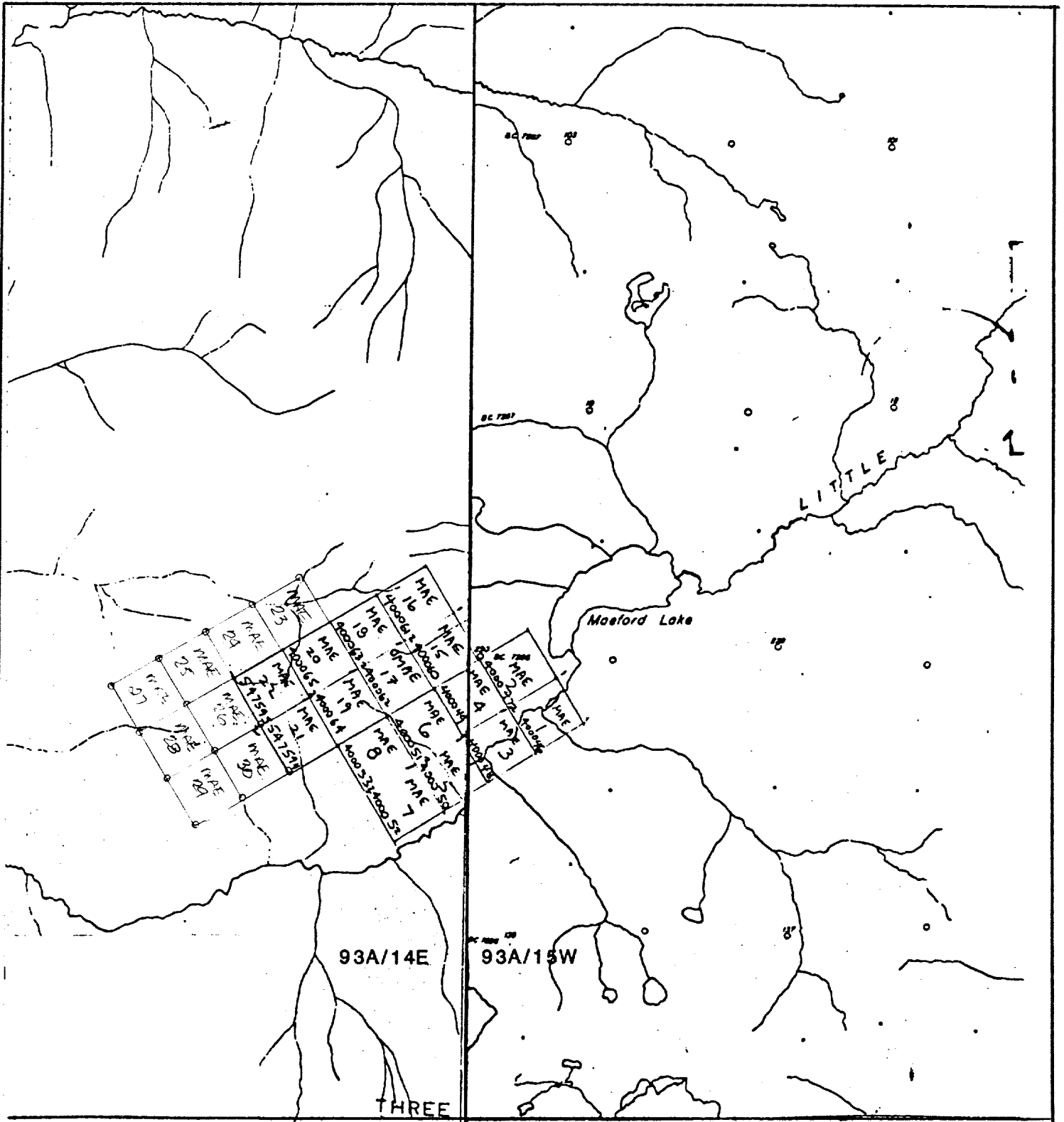
Drawn by:		Traced by: a. m. b.	
Revised By	Date	Revised by	Date

# MAE PROPERTY LOCATION MAP

Scale: 1 : 6,370,000

Date: NOVEMBER, 1989

Plate: 89-1



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

# CLAIM LOCATION MAP

Scale: 1:50,000

Date: NOVEMBER, 1989

Plate: 89-2

COMINCO LTD.

EXPLORATION  
NTS:93A/14E

WESTERN CANADA  
NOVEMBER, 1991

ASSESSMENT REPORT  
GEOLOGY, GEOCHEMISTRY  
MAE MINERAL CLAIMS

1. INTRODUCTION

This report describes the work performed on the Mae Claims from June 27 to August 19, 1991. During this period 1.2 km of access road was constructed from the logging road to the 5100' elevation in the center of the property. Subsequently 1:2500 scale mapping and grid geochemistry was conducted over a 1.8 x 1.0 km area above the 5000' contour level.

2.0 SUMMARY

The Mae Property is located on NTS map 93A/14E-15W approximately 60 km northeast from Likely, BC. The Mae Claims were staked during September 1988 after high Zn silt samples were received from sampling the stream in the center of the property. Further prospecting discovered float containing pyrite-chalcopyrite-spessartine garnet with anomalous Pb/Zn in some of the samples.

Property geology consists of two units as mapped by Struik (1988). The upper Paleozoic Snowshoe group consists of the Downey succession; a olive grey to black pelite locally metamorphosed to garnet/staurolite grade. Conformably overlying the pelite unit is the Bralco Marble; a medium to coarse grained white marble with micaceous pelitic interbeds adjacent to the contact.

During 1989, 25 km of grid soil sampling outlined three broad Pb/Zn anomalies of which the most northeasterly was trenched with a JD 450 bulldozer. The two southwesterly anomalies remained untested and were the target of 1991 work.

1991 1:2500 scale mapping revealed a well defined contact between the pelites and the marble which is representative of either a facies boundary or a geological contact striking northwest and dipping southwest. During 1991, 12 line km of 25 meter soil sampling took place above the 5000' contour level delineating an anomaly of >100-1130 ppm Pb, >500-13700 ppm Zn approximately 1.2 km x .2 km wide.

Excavator trenching of the anomaly is recommended to establish the style, grade and width of mineralization.

3.0 PROPERTY & OWNERSHIP

The property consists of 24 claims of 24 units 100% owned by Cominco Ltd. #700-409 Granville St. Vancouver, B.C. V6C 1T2. Upon acceptance of this report assessment work will be due in 2001.

<u>Claim Name</u>	<u>Units</u>	<u>Date recorded</u>	<u>Assessment work due</u>
Mae 1	1	Sept 21, 1988	Sept 21, 2001
2	1	"	"
3	1	"	"

<u>Claim Name</u>	<u>Units</u>	<u>Date recorded</u>	<u>Assessment work due</u>
4	1	Sept 21, 1988	Sept 21, 2001
5	1	"	"
6	1	"	"
7	1	"	"
8	1	"	"
15	1	"	"
16	1	"	"
17	1	"	"
18	1	"	"
19	1	"	"
20	1	"	"
21	1	"	"
22	1	"	"
23	1	"	"
24	1	May 23, 1990	May 23, 2001
25	1	"	"
26	1	May 24, 1990	May 24, 2001
27	1	"	"
28	1	"	"
29	1	"	"
30	1	"	"

#### 4.0 LOCATION, ACCESS & PHYSIOGRAPHY

The Mae property lies within the Cariboo Mining District and is located on NTS map sheets 93A/14E-15W at latitude 57 47' and longitude 121 00'. Access 60 km east of Likely, B.C. is provided via Weldwood's 8400 logging road which bisects the property. Elevation ranges from 3800' to 5200'. Below the 4000' level clearcut logging has taken place. Vegetation above the 4000' level consists of mature spruce and pine covering  $\pm$  30 slopes to the 5000' level. Above the 5000' level timbered regions are interspersed with open alpine areas.

#### 5.0 HISTORY AND DEVELOPMENT

In 1988, prospecting by Cominco Ltd. along the 8400 logging road near Maeford lake revealed gossanous float containing pyrite-chalcopyrite-spessartine garnet schist containing trace galena and sphalerite. Contour soils and stream geochemistry was performed in the area with the stream located at grid 10000 N. containing high Zn values. The Mae 1-8, 15-22 claims were staked to cover suspect stratigraphy and during 1989 25 km of grid soil samples were taken. Three broad anomalies (titled A, B & C) were defined and anomaly "C" was trenched without success. During 1991 grid geochemistry and 1:2500 scale geological mapping was conducted over anomalies "A" & "B".

#### 6.0 REGIONAL GEOLOGY

The Maeford Lake area was previously mapped by Campbell (1978) as Hadrynian and/or Paleozoic Snowshoe Formation and by Getsinger (1985) and Struik (1988) as late Proterozoic to Paleozoic Snowshoe Group; a high grade metamorphic sequence overlain by a limestone marble sequence (Bralco succession). 500

meters to the north of the property resides the Pleasant Valley Thrust separating Paleozoic rocks of the Barkerville Terrain to the south from Hadrynian to Cambrian rocks of the Cariboo Terrain to the north.

## 7.0 PROPERTY GEOLOGY

Property geology (Plate 1) consists of two primary units; the Paleozoic Downey succession garnet/staurolite metamorphic grade pelites and the conformably overlying Upper Paleozoic Bralco succession marble. The Downey succession consists of rusty brown weathering olive grey schist containing muscovite mica with biotite phenocrysts and minor secondary quartz lenses. Dark red/black shattered garnets are common with muscovite forming helicitic textures around the garnets. Staurolite is rare and present as isolated porphyroblastic euhedral crystals. Strong schistose foliation is present and some outcrops display 5-20 cm inflection point width folding. Chloritic schist with sericite alteration is located at 10900 N., 8825 E. and contains magnetite subhedral phenocrysts. Schist from 9100 N. to 9300 N. is black, has a high silica content, low mica and is without garnet. Thin (< 2m) impure siltite/quartzite beds are exposed on the 1991 excavator road at 10100 N. 9200 E. Property mapping correlates the schist with descriptions of the Downey succession as mapped by Struik (1988).

The Bralco marble is the cliff forming unit on the grid's NE portion and is generally massive with a weak foliation and prominent near vertical fracture. Foliation within the marble varies with no discernable pattern other than being strongest near the contact with the schist. Visually this is more apparent as the marble becomes laminated with impurities of mica and pelites adjacent to the gradational contact.

Mineralization consists of apple green to white sphalerite layer parallel with white to light purple fluorite hosted within the impure marble adjacent to the schist contact. Chip samples taken orthogonal to stratigraphy yield 8-8.7% Zn over .5 meters with negligible Pb (<670 ppm) from sites M2 to M12 located at grid 10100 N 8800 E.

## 8.0 GEOCHEMISTRY

The grid soil sampling program was conducted from the 23rd of July to August 20, 1991. A total of 272 soil samples and 42 rock samples were taken and sent to Cominco Exploration Research Laboratory, 1486 E. Pender St. Vancouver, B.C. for analysis. After drying, the soils were sieved to -80 mesh and digested with reverse Aqua Regia. They were analyzed for Pb/Zn/Ag using AAS methods. Barium was performed by pressed pellet XRF determination. Rock were crushed and treated with identical processes as the soil samples.

Plotting of results (Plate 2) indicated a >100 ppm Pb, >500 ppm Zn soil anomaly from 9560 N. to 11000 N. and 8800 E. to 9100 E. defining a broad area of 1.5 km x.2 km in size. Within this area values range up to 1130 ppm Pb and 13700 ppm Zn with the higher ranges located between 9560 N. and 11300 N.

Barium and silver geochemistry displayed no correlative relationship and is not plotted. Results are displayed in Appendix "C".

**9.0 CONCLUSIONS AND RECOMMENDATIONS**

Mineralization on the Mae property appears to be confined to the conformable contact between the Downey succession schist and the overlying Bralco succession marble. The grid soil geochemistry outlines a Zn/Pb anomaly 1.4 km x .2 km parallel to the schist/marble contact and rock samples indicate the mineralization is carbonate hosted. Further work in the form of trenching is recommended to establish the style, grade and width of mineralization.

Submitted by:

  
Dunham C. Craig  
Geologist

Approved for

release by:

  
W.J. Wolfe  
Manager, Exploration  
Western Canada



**Appendix "A"**  
**Assessment Report**  
**Mae Property**

**Statement of Expenditures**  
**June 15 to August 19, 1991**

**Staff:**

D.L. Craig (11d @ \$190.00/d)	\$ 2090.00	
D.Johannesson (27d @ \$150.00/d)	\$ 4050.00	
H.S. Parker (27d @ \$115.00/d)	\$ 3105.00	
M. Grant (11d @ \$115.00/d)	\$ 1265.00	
		\$ 10510.00
Geochemical analysis		\$ 5037.00
Communications		\$ 468.95
<b>Road construction:</b>		
Falling & slashing	\$ 1973.40	
Excavator	4162.50	
		\$ 6135.90
Helicopter		\$ 1173.00
Truck Rental & Fuel		\$ 1479.70
Reproduction and drafting		\$ 485.00
Geological Supplies		\$ 3838.00
Domicile (76d @ \$36.52/d)		\$ 2775.94
<hr/>		
<b>Total expenditure</b>		<b>\$ 31903.49</b>

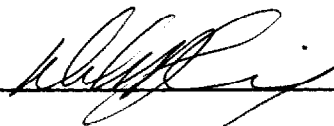
APPENDIX "B"

STATEMENT OF QUALIFICATION

I, Dunham L. Craig of the city of Burnaby, B.C. hereby certify:

- \* THAT I am employed in British Columbia with a business address at 3970 Edinburgh St. Burnaby, B.C. V5C 1R7.
- \* THAT I graduated with a B.Sc. in Geology from the University of British Columbia in 1988.
- \* THAT I am a member of the Association of Exploration Geochemists.
- \* THAT I have practised geology with Cominco Ltd. from 1988 to the present.

Dated this 27th day of November, 1991 at Vancouver, B.C.



---

Dunham L. Craig, B.Sc.

**APPENDIX "B"**

IN THE MATTER OF THE B.C. MINERAL ACT AND IN THE MATTER OF GEOCHEMICAL AND GEOLOGICAL MAPPING CARRIED OUT ON THE MAE MINERAL CLAIMS LOCATED IN THE CARIBOO MINING DISTRICT OF THE PROVINCE OF BRITISH COLUMBIA.

**AFFIDAVIT**

I, Dunham L. Craig, of the city of Burnaby, in the province of British Columbia make oath and say:

1. THAT I am employed as a Geologist by Cominco Ltd. and as such have personal knowledge of the facts to which I hereinafter depose.
2. THAT annexed hereto and marked as "Appendix A" to this report is a true copy of expenditure of a geological and geochemical program carried out on the MAE property.
3. THAT the said expenditures incurred between June 15 - August 19, 1991 for the purpose of mineral exploration on the above noted property.

  
\_\_\_\_\_  
Dunham L. Craig, B.Sc

**APPENDIX "C"**  
**ROCK & SOIL GEOCHEMISTRY**  
**ROCK DESCRIPTIONS**

D.L. Craig

MAE--WD

JOB V 91-0472R  
REPORT DATE 22 OCT 1991

LAB NO	FIELD NUMBER	Pb PPM	Zn PPM	Ag PPM	Ba(4) PPM
R9109400	91DR30	11	5890	<.4	314
R9109401	91DR31	18	E12100	<.4	188
R9109402	91DR32	52	E24700	<.4	54
R9109403	91DR33	4760	E51300	7.8	225
R9109404	91DR34	21	6460	<.4	59
R9109405	91DR35	11	1060	<.4	195
R9109406	91DR36	6	8630	<.4	129
R9109407	91DR37	6	E13800	<.4	110
R9109408	91DR38	11	6650	<.4	701
R9109409	91DR39	16	724	<.4	254
R9109410	91DR40	22	1070	<.4	534
R9109411	91DR41	9	1700	<.4	344
R9109412	91DR42	<4	26	<.4	5539
R9109413	91DR43	5	197	<.4	35
R9109414	91DR44	14	1870	<.4	62
R9109415	91DR45	15	8380	<.4	163
R9109416	91DR46	14	3360	<.4	322
R9109417	91DR47	55	E59700	<.4	211
R9109418	91DR48	5	5030	<.4	4371
R9109419	91DR49	10	334	<.4	122
R9109420	91DR50	10	1230	<.4	531
R9109421	91DR51	9	233	<.4	203
R9109422	91DR52	6	215	<.4	52
R9109423	91DR53	7	1630	<.4	127
R9109424	91DR54	11	4600	<.4	969
R9109425	91DR55	9	91	<.4	68
R9109426	91DR56	10	648	<.4	71
R9109427	91DR57	8	673	<.4	106
R9109428	91DR58	15	204	<.4	70
R9109429	91DR59	20	37	<.4	287
R9109430	91DR60	18	83	<.4	105
R9109431	91DR61	<4	E31600	<.4	212
R9109432	91DR62	4	299	<.4	86
R9109433	91DR63	9	4620	<.4	429
R9109434	91DR64	<4	1440	<.4	504
R9109435	91DR65	15	400	<.4	118
R9109436	91DR66	19	344	<.4	36
R9109437	91DR67	13	127	<.4	53
R9109438	91DR68	9	2310	<.4	46
R9109439	91DR69	10	1060	<.4	276
R9109440	91DR70	60	7100	<.4	1160
R9109441	91DR71	8	1110	<.4	135
R9109442	91DR72	1330	E67300	<.4	2345

I=INSUFFICIENT SAMPLE X=SMALL SAMPLE E=EXCEEDS CALIBRATION C=BEING CHECKED R=REVISED  
IF REQUESTED ANALYSES ARE NOT SHOWN ,RESULTS ARE TO FOLLOW

## ANALYTICAL METHODS

Pb AQUA REGIA DECOMPOSITION / AAS  
Zn AQUA REGIA DECOMPOSITION / AAS  
Ag AQUA REGIA DECOMPOSITION / AAS  
Ba(4) X-RAY FLUORESCENCE / PRESSED PELLET

Project: MAE

NTS: 93A/MAE-15N Date: AUGUST 1991

Field#	Location	Type	Description
91DR30	10300N 8800E	O/C	1.2 m CHIP LAMINATED MARBLE W/ STRINGERS OF SP < 5% OF SAMPLE
91DR31	10300N 8800E	OC	0.8 m CHIP OF LAMINATED MARBLE W/ SP < 3%
91DR32	10425N 8800E	OC	0.4 m CHIP WHITE MARBLE W 5-10% SP
91DR33	10425N 8800E	OG	GRAB FINE GRAINED WHT MARBLE N/TRACE SP
91DR34	10650N 8800E	OC	1.8 m CHIP COARSE GRAINED WHT. MARBLE
91DR35	10650N 8800E	OC	1.5 m CHIP " " " "
91DR36	10650N 8800E	OC	1.1 m CHIP " " " "
91DR37	10650N 8800E	OC	.9 m CHIP " " " " W FLOURITE
91DR38	10700N 8800E	OC	1.35 m CHIP LAMINATED MARBLE W/ SP < 3%
91DR39	10700N 8800E	OC	1.8 m CHIP COARSE GRAINED MARBLE/LAMINATED MARBLE
91DR40	10700N 8850E	OC	1.1 m CHIP " " " " " "
			SOME GRN SP MOSTLY RED/BRN SP
91DR41	10700N 8850E	OC	1.1 m CHIP AS ABOVE - NO GREEN SP
91DR42	10900N 8825E	OG	GREEN SHIST; CHLORITIC, MAGNETITE TO 4%
91DR43	10850N 8825E	OC	1.0 m MARBLE; LAMINATED, < 1% SP
91DR44	10850N 8825E	OC	1.0 m " " " "
91DR45	10400N 8660E	OG	3 SMALL LOCALIZED SAMPLES CONTAINING 5% SP
91DR46	10400N 8630E	OG	CHERT, FLOURITE? WITH 5 SP RED BROWN GRAINS OF SP
91DR47	10400N 8630E	OG	LAMINATED MARBLE; SP STRINGERS RED BRN < 5% FLOURITE; CHERT PRESENT
91DR48	10500N 8600E	OC	1.2 m CHIP MARBLE; LAMINATED W < 1% SP
91DR49	10500N 8550E	OC	0.8 m LAMINATED MARBLE
91DR50	10500N 8550E	OC	2.0 m LAMINATED MARBLE W FLOURITE IN BANDS 2cm THICK & TR SP.
91DR51	10500N 8550E	OC	1.5 m MARBLE; LAMINATED; TR. SP.
91DR52	9960N 8800E	OC	.95 m " " " "
91DR53	9960N 8800E	OC	.7 m " " " "
91DR54	9868N 8800E	OC	.7 m " " " "
91DR55	10070N 8825E	OC	1.7 " " " "
91DR56	10070N 8825E	OC	1.7 " " " "
91DR57	10100N 8825E	OC	2.6 " " " "
91DR58	10100N 8825E	OC	2.2 " " " "
91DR59	10100N 8830E	OC	1.9 " " " "
91DR60	10100N 8835E	OC	0.85 " " " "
91DR61	10100N 8830E	OC	0.5 " " " " MICACEOUS; AZULIC LAMINATIONS; SP = $\leq$ 3%
91DR62	10100N 8860E	OC	1.3 m MARBLE; LAMINATED TR. SP.
91DR63	10100N 8875E	OC	0.7 m " " " "
91DR64	10100N 8875E	OC	1.6 m " " " "
91DR65	10250N 8835E	OC	1.2 m " " " "
91DR66	10250N 8835E	OC	1.3 m " " " "
91DR67	10250N 8835E	OC	1.5 " " " "
91DR68	10300N 8865E	OC	1.5 " " " "
91DR69	9500N 8830E	OC	0.5 " " " "

Type: O=outcrop F=Float C=Chip G=Grab F=Fossil D=Drill Core



B. C. CLASTICS RECCE-WD

JOB V 90-0545R  
 REPORT DATE 1 NOV 1990

MAE

LAB NO	FIELD NUMBER	Pb PPM	Zn PPM	Ag PPM	Au PPB	Ht Au GRAM	Ba(4) PPM	F PPM
R9013177	MAE1	5	E11100	<.4	<10	5		
R9013178	M2	4	9080	<.4	<10	5		
R9013179	M3A	18	E238000	<.4	<10	5		
R9013180	M3B	14	E158000	<.4	<10	5		
R9013181	M5A	5	E67100	<.4	<10	5		
R9013182	M11A	686	E335000	<.4	<10	5		
R9013183	M11B	12	E91000	<.4	<10	5		
R9013184	M11C	766	E278000	<.4	<10	5		
R9013185	M15	12	E92000	<.4	<10	5		
R9013186	M16	16	E77300	<.4	<10	5		
R9013187	M5	19	E62000	<.4	<10	5		
R9013188	M6	20	E23500	<.4	<10	5		
R9013189	M7	13	1270	<.4	<10	5		
R9013190	M8	326	E83400	<.4	<10	5		
R9013191	M9	18	E80000	<.4	<10	5		
R9013192	M10	29	E81000	<.4	<10	5		
R9013193	M11	115	E67800	<.4	<10	5		
R9013194	M12	131	E283000	<.4	<10	5		

I=INSUFFICIENT SAMPLE X=SMALL SAMPLE E=EXCEEDS CALIBRATION C=BEING CHECKED R=REVISED  
 IF REQUESTED ANALYSES ARE NOT SHOWN, RESULTS ARE TO FOLLOW

ANALYTICAL METHODS

- Pb AQUA REGIA DECOMPOSITION / AAS
- Zn AQUA REGIA DECOMPOSITION / AAS
- Ag AQUA REGIA DECOMPOSITION / AAS
- Au AQUA REGIA DECOMPOSITION / SOLVENT EXTRACTION / AAS
- Ht Au THE WEIGHT OF SAMPLE TAKEN TO ANALYSE FOR GOLD (GEOCHEM)
- Ba(4) X-RAY FLUORESCENCE / PRESSED PELLET
- F SPECIFIC ION ELECTRODE







## MAE 1991 GRID SOIL SAMPLES

EXP LAB NUMBER	FIELD NO	EAST	NORTH	MAT'L	Pb ppm	Zn ppm	Ag ppm	Ba ppm
S9122078	172761	+8525	+10060	Soil	<4	39	<.4	844
S9122077	172760	+8550	+10060	Soil	4	58	<.4	885
S9122076	172759	+8575	+10060	Soil	11	61	.5	631
S9122075	172758	+8600	+10060	Soil	8	296	.4	1298
S9122074	172757	+8625	+10060	Soil	13	125	<.4	1374
S9122073	172756	+8650	+10060	Soil	21	150	<.4	1224
S9122072	172755	+8675	+10060	Soil	14	286	<.4	1511
S9122071	172754	+8700	+10060	Soil	7	201	<.4	1362
S9122070	172753	+8725	+10060	Soil	21	577	1.2	1434
S9122069	172752	+8750	+10060	Soil	18	317	<.4	2412
S9122068	172751	+8775	+10060	Soil	19	400	<.4	1690
S9122090	172773	+8525	+10100	Soil	<4	21	<.4	1239
S9122089	172772	+8550	+10100	Soil	9	78	<.4	1480
S9122088	172771	+8575	+10100	Soil	27	78	<.4	892
S9122087	172770	+8600	+10100	Soil	15	137	<.4	1062
S9122086	172769	+8625	+10100	Soil	7	159	<.4	1546
S9122085	172768	+8650	+10100	Soil	8	59	<.4	803
S9122084	172767	+8675	+10100	Soil	20	199	<.4	1292
S9122083	172766	+8700	+10100	Soil	26	396	.8	1562
S9122082	172765	+8725	+10100	Soil	18	391	1	1340
S9122081	172764	+8750	+10100	Soil	21	237	<.4	2237
S9122080	172763	+8775	+10100	Soil	66	1870	<.4	2572
S9122079	172762	+8800	+10100	Soil	209	2730	.6	1577
S9122107	172790	+8400	+10200	Soil	10	268	<.4	1336
S9122106	172789	+8425	+10200	Soil	9	45	<.4	899
S9122105	172788	+8450	+10200	Soil	8	414	<.4	1304
S9122104	172787	+8475	+10200	Soil	5	117	<.4	711
S9122103	172786	+8500	+10200	Soil	<4	227	<.4	1482
S9122102	172785	+8525	+10200	Soil	9	120	<.4	1028
S9122101	172784	+8550	+10200	Soil	9	188	<.4	1150
S9122100	172783	+8575	+10200	Soil	15	41	<.4	625
S9122099	172782	+8600	+10200	Soil	6	73	.5	1427
S9122098	172781	+8625	+10200	Soil	13	85	.6	819
S9122097	172780	+8650	+10200	Soil	4	33	.4	1248
S9122096	172779	+8675	+10200	Soil	<4	80	<.4	1155
S9122095	172778	+8700	+10200	Soil	<4	40	<.4	1192
S9122094	172777	+8725	+10200	Soil	8	105	<.4	1282
S9122093	172776	+8750	+10200	Soil	12	103	<.4	766
S9122092	172775	+8775	+10200	Soil	19	231	<.4	1937
S9122091	172774	+8800	+10200	Soil	173	1860	<.4	1611
S9122123	172806	+8425	+10300	Soil	7	88	<.4	1709
S9122122	172805	+8450	+10300	Soil	<4	51	<.4	1214
S9122121	172804	+8475	+10300	Soil	9	36	<.4	1249
S9122120	172803	+8500	+10300	Soil	10	121	<.4	1138
S9122119	172802	+8525	+10300	Soil	9	369	<.4	1344
S9122118	172801	+8550	+10300	Soil	6	41	<.4	1107
S9122117	172800	+8575	+10300	Soil	13	482	<.4	1436
S9122116	172799	+8600	+10300	Soil	68	1230	<.4	862
S9122115	172798	+8625	+10300	Soil	23	1890	<.4	2721

MAE 1991 GRID SOIL SAMPLES

EXP LAB NUMBER	FIELD NO	EAST	NORTH	MAT'L	Pb ppm	Zn ppm	Ag ppm	Ba ppm
S9122114	172797	+8650	+10300	Soil	14	99	1.4	1321
S9122113	172796	+8675	+10300	Soil	5	62	<.4	979
S9122112	172795	+8700	+10300	Soil	7	39	<.4	1182
S9122111	172794	+8725	+10300	Soil	<4	48	<.4	2213
S9122110	172793	+8750	+10300	Soil	28	242	.5	1039
S9122109	172792	+8775	+10300	Soil	14	190	<.4	1439
S9122108	172791	+8800	+10300	Soil	157	1440	<.4	1899
S9124485	172577	+8825	+10300	Soil	100	577	<.4	1485
S9124486	172578	+8850	+10300	Soil	188	472	<.4	500
S9124487	172579	+8875	+10300	Soil	126	3290	<.4	1405
S9124488	172580	+8900	+10300	Soil	32	188	<.4	1791
S9122139	172822	+8400	+10400	Soil	15	67	<.4	802
S9122138	172821	+8425	+10400	Soil	13	101	.6	1343
S9122137	172820	+8450	+10400	Soil	29	239	<.4	1841
S9122136	172819	+8475	+10400	Soil	<4	129	<.4	1303
S9122135	172818	+8500	+10400	Soil	<4	65	<.4	1527
S9122134	172817	+8525	+10400	Soil	8	103	<.4	1340
S9122133	172816	+8550	+10400	Soil	11	62	<.4	1075
S9122132	172815	+8575	+10400	Soil	9	112	<.4	1381
S9122131	172814	+8600	+10400	Soil	11	164	<.4	1285
S9122130	172813	+8625	+10400	Soil	24	990	<.4	1627
S9122129	172812	+8650	+10400	Soil	32	445	<.4	2142
S9122128	172811	+8675	+10400	Soil	46	339	<.4	2143
S9122127	172810	+8725	+10400	Soil	15	60	<.4	1401
S9122126	172809	+8750	+10400	Soil	31	81	.4	1360
S9122125	172808	+8775	+10400	Soil	8	136	.4	1637
S9122124	172807	+8800	+10400	Soil	58	217	<.4	1518
S9124465	172557	+8825	+10400	Soil	419	811	1.3	1056
S9124466	172558	+8850	+10400	Soil	203	766	<.4	1437
S9124467	172559	+8872	+10400	Soil	322	254	.9	842
S9124468	172560	+8900	+10400	Soil	112	1300	<.4	1333
S9124469	172561	+8925	+10400	Soil	79	408	<.4	1234
S9124470	172562	+8950	+10400	Soil	150	227	<.4	1455
S9124471	172563	+8975	+10400	Soil	70	219	<.4	1306
S9124472	172564	+9000	+10400	Soil	44	88	<.4	1332
S9124473	172565	+9025	+10400	Soil	36	68	<.4	1115
S9124474	172566	+9050	+10400	Soil	36	55	<.4	1359
S9124475	172567	+9075	+10400	Soil	45	86	<.4	991
S9124476	172568	+9100	+10400	Soil	43	81	<.4	1303
S9124477	172569	+9125	+10400	Soil	75	177	<.4	985
S9124478	172570	+9150	+10400	Soil	32	65	<.4	1582
S9124479	172571	+9175	+10400	Soil	47	92	<.4	697
S9124480	172572	+9200	+10400	Soil	70	153	<.4	1166
S9124481	172573	+9225	+10400	Soil	68	94	<.4	1141
S9124482	172574	+9250	+10400	Soil	181	153	<.4	939
S9124483	172575	+9275	+10400	Soil	132	257	<.4	1033
S9124484	172576	+9300	+10400	Soil	265	398	<.4	465
S9122203	172823	+8400	+10500	Soil	10	92	<.4	727
S9122204	172824	+8425	+10500	Soil	23	168	<.4	1018

MAE 1991 GRID SOIL SAMPLES

EXP LAB NUMBER	FIELD NO	EAST	NORTH	MAT'L	Pb ppm	Zn ppm	Ag ppm	Ba ppm
S9122205	172825	+8450	+10500	Soil	71	220	<.4	3484
S9122206	172826	+8475	+10500	Soil	73	285	.5	4502
S9122207	172827	+8500	+10500	Soil	9	22	<.4	2344
S9122208	172828	+8575	+10500	Soil	44	212	<.4	1449
S9122209	172829	+8600	+10500	Soil	21	190	<.4	1355
S9122210	172830	+8625	+10500	Soil	18	95	<.4	4525
S9122211	172831	+8650	+10500	Soil	76	343	<.4	6571
S9122212	172832	+8675	+10500	Soil	47	83	<.4	3441
S9122213	172833	+8700	+10500	Soil	10	52	<.4	1103
S9122214	172834	+8750	+10500	Soil	14	33	<.4	1107
S9122215	172835	+8775	+10500	Soil	26	50	<.4	1803
S9122216	172836	+8800	+10500	Soil	23	63	<.4	975
S9124444	172536	+8825	+10500	Soil	20	101	<.4	657
S9124445	172537	+8850	+10500	Soil	355	495	<.4	1222
S9124446	172538	+8875	+10500	Soil	235	443	<.4	2370
S9124447	172539	+8900	+10500	Soil	354	461	<.4	836
S9124448	172540	+8925	+10500	Soil	51	280	<.4	1809
S9124449	172541	+8950	+10500	Soil	104	205	<.4	1595
S9124450	172542	+8975	+10500	Soil	119	176	<.4	926
S9124451	172543	+9000	+10500	Soil	57	161	<.4	964
S9124452	172544	+9025	+10500	Soil	78	263	<.4	1661
S9124453	172545	+9050	+10500	Soil	97	147	<.4	737
S9124454	172546	+9075	+10500	Soil	60	160	<.4	961
S9124455	172547	+9100	+10500	Soil	20	63	<.4	1024
S9124456	172548	+9125	+10500	Soil	43	135	<.4	901
S9124457	172549	+9150	+10500	Soil	43	95	<.4	1184
S9124458	172550	+9175	+10500	Soil	71	140	<.4	1769
S9124459	172551	+9200	+10500	Soil	46	84	<.4	1513
S9124460	172552	+9225	+10500	Soil	37	82	<.4	1418
S9124461	172553	+9250	+10500	Soil	50	66	<.4	1268
S9124462	172554	+9275	+10500	Soil	32	98	<.4	976
S9124463	172555	+9300	+10500	Soil	62	127	<.4	925
S9124464	172556	+9325	+10500	Soil	79	561	<.4	898
S9122232	172852	+8400	+10600	Soil	47	233	<.4	584
S9122231	172851	+8425	+10600	Soil	37	426	<.4	E9684
S9122230	172850	+8450	+10600	Soil	<4	32	<.4	1757
S9122229	172849	+8475	+10600	Soil	19	88	<.4	899
S9122228	172848	+8500	+10600	Soil	11	68	<.4	680
S9122227	172847	+8525	+10600	Soil	21	231	<.4	1326
S9122226	172846	+8550	+10600	Soil	11	65	<.4	2657
S9122225	172845	+8575	+10600	Soil	37	113	<.4	1955
S9122224	172844	+8600	+10600	Soil	76	128	<.4	E13133
S9122223	172843	+8625	+10600	Soil	26	224	<.4	1299
S9122222	172842	+8650	+10600	Soil	20	109	<.4	1773
S9122221	172841	+8675	+10600	Soil	53	384	<.4	2902
S9122220	172840	+8700	+10600	Soil	32	892	<.4	2620
S9122219	172839	+8750	+10600	Soil	23	85	<.4	1424
S9122218	172838	+8775	+10600	Soil	37	156	<.4	1467
S9122217	172837	+8800	+10600	Soil	5	49	<.4	1244

## MAE 1991 GRID SOIL SAMPLES

EXP LAB NUMBER	FIELD NO	EAST	NORTH	MAT'L	Pb ppm	Zn ppm	Ag ppm	Ba ppm
S9124422	172514	+8825	+10600	Soil	23	4620	<.4	1389
S9124423	172515	+8850	+10600	Soil	537	1430	<.4	1372
S9124424	172516	+8875	+10600	Soil	165	1140	<.4	1015
S9124425	172517	+8900	+10600	Soil	70	489	<.4	1316
S9124426	172518	+8925	+10600	Soil	17	94	<.4	1135
S9124427	172519	+8950	+10600	Soil	27	121	<.4	1063
S9124428	172520	+8975	+10600	Soil	221	740	<.4	2967
S9124429	172521	+9000	+10600	Soil	231	268	<.4	952
S9124430	172522	+9025	+10600	Soil	36	105	<.4	1363
S9124431	172523	+9050	+10600	Soil	26	74	<.4	1005
S9124432	172524	+9075	+10600	Soil	29	145	<.4	1327
S9124433	172525	+9100	+10600	Soil	24	116	<.4	1179
S9124434	172526	+9125	+10600	Soil	22	92	<.4	1066
S9124435	172527	+9150	+10600	Soil	29	76	<.4	1075
S9124436	172528	+9175	+10600	Soil	39	109	<.4	1102
S9124437	172529	+9200	+10600	Soil	30	91	<.4	1105
S9124438	172530	+9225	+10600	Soil	31	98	<.4	1522
S9124439	172531	+9250	+10600	Soil	32	63	<.4	903
S9124440	172532	+9275	+10600	Soil	48	83	<.4	1345
S9124441	172533	+9300	+10600	Soil	48	76	<.4	1319
S9124442	172534	+9325	+10600	Soil	40	65	<.4	923
S9124443	172535	+9350	+10600	Soil	54	79	<.4	983
S9122249	172869	+8400	+10700	Soil	18	73	<.4	658
S9122248	172868	+8425	+10700	Soil	29	69	<.4	644
S9122247	172867	+8450	+10700	Soil	14	34	<.4	551
S9122246	172866	+8475	+10700	Soil	12	53	<.4	565
S9122245	172865	+8500	+10700	Soil	13	42	<.4	694
S9122244	172864	+8525	+10700	Soil	37	84	<.4	811
S9122243	172863	+8550	+10700	Soil	98	185	<.4	566
S9122242	172862	+8575	+10700	Soil	37	95	<.4	1941
S9122241	172861	+8600	+10700	Soil	41	199	<.4	1739
S9122240	172860	+8625	+10700	Soil	51	226	<.4	1261
S9122239	172859	+8650	+10700	Soil	23	117	<.4	1479
S9122238	172858	+8675	+10700	Soil	9	101	<.4	800
S9122237	172857	+8700	+10700	Soil	13	113	<.4	979
S9122236	172856	+8725	+10700	Soil	15	62	<.4	823
S9122235	172855	+8750	+10700	Soil	20	91	<.4	1026
S9122234	172854	+8775	+10700	Soil	32	75	<.4	4672
S9122233	172853	+8800	+10700	Soil	130	680	.8	1596
S9122163	172909	+8825	+10700	Soil	91	647	<.4	1361
S9122164	172910	+8850	+10700	Soil	299	4300	<.4	1038
S9122165	172911	+8875	+10700	Soil	51	456	<.4	1238
S9122166	172912	+8900	+10700	Soil	122	278	.7	513
S9122167	172913	+8925	+10700	Soil	84	203	<.4	1447
S9122168	172914	+8950	+10700	Soil	177	371	<.4	775
S9122169	172915	+8975	+10700	Soil	25	95	<.4	926
S9122170	172916	+9000	+10700	Soil	18	96	<.4	958
S9122171	172917	+9025	+10700	Soil	25	81	<.4	1166
S9122172	172918	+9050	+10700	Soil	21	86	<.4	993

## MAE 1991 GRID SOIL SAMPLES

EXP LAB NUMBER	FIELD NO	EAST	NORTH	MAT'L	Pb ppm	Zn ppm	Ag ppm	Ba ppm
S9122173	172919	+9075	+10700	Soil	23	161	<.4	1227
S9122174	172920	+9100	+10700	Soil	33	391	<.4	1525
S9122175	172921	+9125	+10700	Soil	22	117	<.4	1329
S9122176	172922	+9150	+10700	Soil	20	210	<.4	1355
S9122177	172923	+9175	+10700	Soil	19	70	<.4	946
S9122178	172924	+9200	+10700	Soil	15	44	<.4	839
S9122179	172925	+9225	+10700	Soil	26	82	<.4	1059
S9122180	172926	+9250	+10700	Soil	34	78	<.4	870
S9122181	172927	+9275	+10700	Soil	32	77	<.4	934
S9122182	172928	+9300	+10700	Soil	18	71	<.4	778
S9122183	172929	+9325	+10700	Soil	32	67	<.4	1064
S9122184	172930	+9350	+10700	Soil	26	71	<.4	955
S9122185	172931	+9375	+10700	Soil	33	105	<.4	878
S9122250	172870	+8400	+10800	Soil	44	66	<.4	441
S9122251	172871	+8425	+10800	Soil	43	47	<.4	395
S9122252	172872	+8450	+10800	Soil	67	109	<.4	591
S9122253	172873	+8475	+10800	Soil	37	73	<.4	595
S9122254	172874	+8500	+10800	Soil	32	45	<.4	469
S9122255	172875	+8525	+10800	Soil	72	133	<.4	494
S9122256	172876	+8550	+10800	Soil	186	117	<.4	372
S9122257	172877	+8575	+10800	Soil	69	87	<.4	655
S9122258	172878	+8600	+10800	Soil	47	76	<.4	654
S9122259	172879	+8625	+10800	Soil	72	117	<.4	528
S9122260	172880	+8650	+10800	Soil	360	132	<.4	307
S9122261	172881	+8675	+10800	Soil	94	308	<.4	653
S9122262	172882	+8700	+10800	Soil	66	351	<.4	1295
S9122263	172883	+8725	+10800	Soil	36	126	<.4	2009
S9122264	172884	+8775	+10800	Soil	4	36	<.4	907
S9122265	172885	+8800	+10800	Soil	18	58	<.4	875
S9122140	172886	+8825	+10800	Soil	82	235	<.4	3931
S9122141	172887	+8850	+10800	Soil	222	411	.9	2989
S9122142	172888	+8875	+10800	Soil	170	1230	.4	687
S9122143	172889	+8900	+10800	Soil	42	5200	<.4	1805
S9122144	172890	+8925	+10800	Soil	151	498	<.4	1098
S9122145	172891	+8950	+10800	Soil	126	219	<.4	1146
S9122146	172892	+8975	+10800	Soil	150	273	<.4	1447
S9122147	172893	+9000	+10800	Soil	26	77	<.4	1306
S9122148	172894	+9025	+10800	Soil	18	80	<.4	1269
S9122149	172895	+9050	+10800	Soil	17	71	<.4	1105
S9122150	172896	+9075	+10800	Soil	19	76	<.4	1626
S9122151	172897	+9100	+10800	Soil	15	98	.4	1207
S9122152	172898	+9125	+10800	Soil	22	116	<.4	1475
S9122153	172899	+9150	+10800	Soil	36	133	<.4	1165
S9122154	172900	+9175	+10800	Soil	26	140	<.4	1055
S9122155	172901	+9200	+10800	Soil	17	77	<.4	870
S9122156	172902	+9225	+10800	Soil	27	127	<.4	1350
S9122157	172903	+9250	+10800	Soil	27	137	<.4	1463
S9122158	172904	+9275	+10800	Soil	25	75	<.4	744
S9122159	172905	+9300	+10800	Soil	22	249	<.4	730

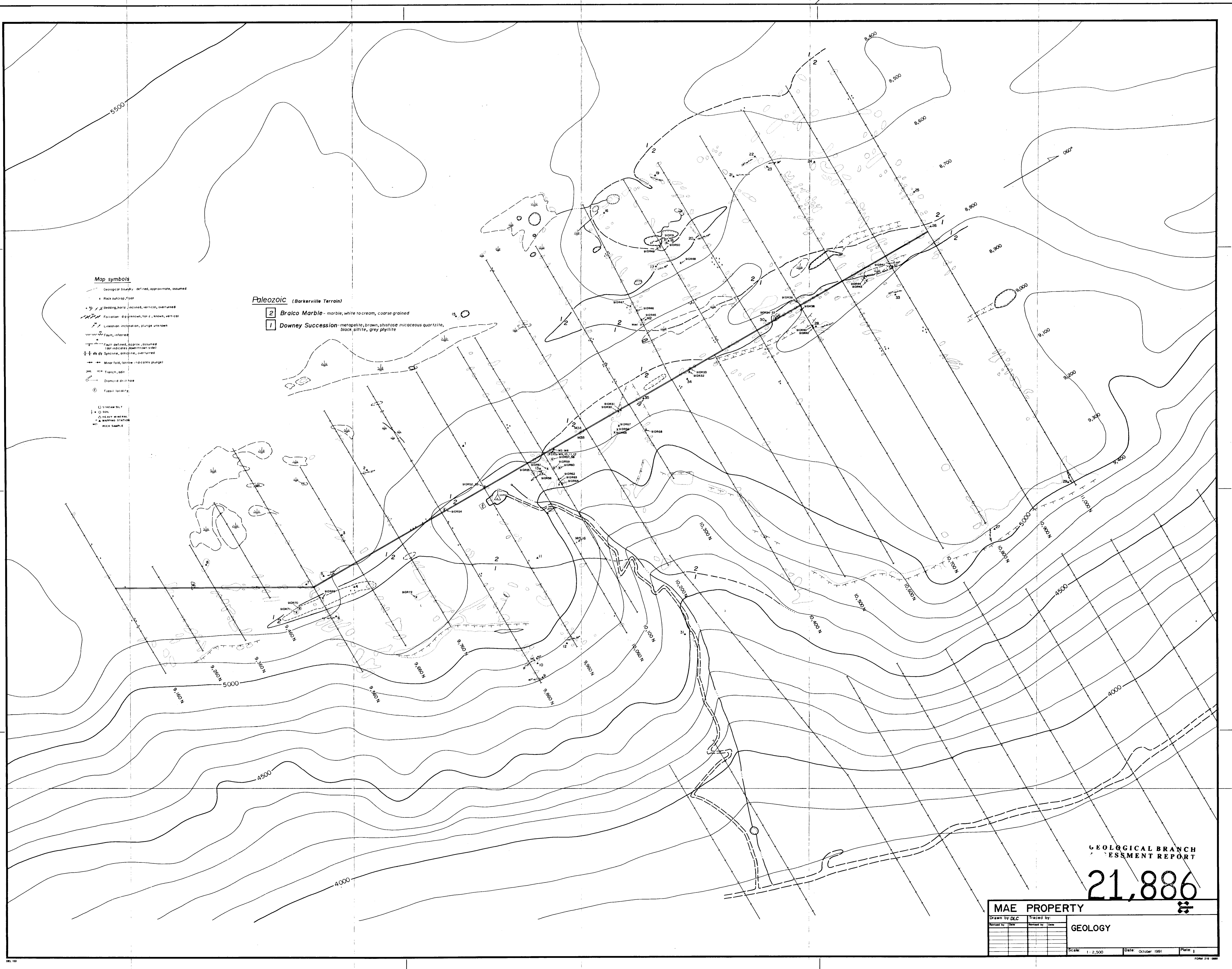
## MAE 1991 GRID SOIL SAMPLES

EXP LAB NUMBER	FIELD NO	EAST	NORTH	MAT'L	Pb ppm	Zn ppm	Ag ppm	Ba ppm
S9122160	172906	+9325	+10800	Soil	71	150	<.4	721
S9122161	172907	+9350	+10800	Soil	55	158	<.4	983
S9122162	172908	+9375	+10800	Soil	43	128	<.4	521
S9122202	172948	+8400	+10900	Soil	45	45	<.4	536
S9122201	172947	+8425	+10900	Soil	12	53	<.4	464
S9122200	172946	+8450	+10900	Soil	45	56	.5	780
S9122199	172945	+8475	+10900	Soil	46	67	<.4	593
S9122198	172944	+8500	+10900	Soil	37	46	<.4	530
S9122197	172943	+8525	+10900	Soil	33	63	<.4	688
S9122196	172942	+8550	+10900	Soil	53	52	<.4	712
S9122195	172941	+8575	+10900	Soil	56	118	<.4	389
S9122194	172940	+8600	+10900	Soil	381	126	<.4	565
S9122193	172939	+8625	+10900	Soil	226	165	<.4	493
S9122192	172938	+8650	+10900	Soil	70	213	<.4	500
S9122191	172937	+8675	+10900	Soil	120	152	<.4	381
S9122190	172936	+8700	+10900	Soil	79	104	<.4	2379
S9122189	172935	+8725	+10900	Soil	49	130	.4	1151
S9122188	172934	+8750	+10900	Soil	18	68	<.4	1148
S9122187	172933	+8775	+10900	Soil	13	76	<.4	1140
S9122186	172932	+8800	+10900	Soil	10	49	<.4	1109
S9124530	172990	+8825	+10900	Soil	13	77	<.4	3626
S9124531	172991	+8850	+10900	Soil	11	17	<.4	508
S9124532	172992	+8875	+10900	Soil	111	215	.4	1174
S9124533	172993	+8900	+10900	Soil	36	608	<.4	1973
S9124534	172994	+8925	+10900	Soil	136	2450	<.4	1211
S9124535	172995	+8950	+10900	Soil	81	308	<.4	2333
S9124536	172996	+8975	+10900	Soil	87	123	<.4	2562
S9124537	172997	+9000	+10900	Soil	91	231	<.4	1359
S9124538	172998	+9025	+10900	Soil	72	273	<.4	1606
S9124539	172999	+9050	+10900	Soil	35	122	<.4	585
S9124540	173000	+9075	+10900	Soil	28	91	<.4	971
S9124541	172501	+9100	+10900	Soil	34	89	<.4	1085
S9124542	172502	+9125	+10900	Soil	19	93	<.4	1075
S9124543	172503	+9150	+10900	Soil	24	121	<.4	1186
S9124544	172504	+9175	+10900	Soil	20	71	<.4	768
S9124545	172505	+9200	+10900	Soil	23	110	<.4	1416
S9124546	172506	+9225	+10900	Soil	20	88	<.4	903
S9124547	172507	+9250	+10900	Soil	20	57	<.4	822
S9124548	172508	+9275	+10900	Soil	21	65	<.4	1032
S9124549	172509	+9300	+10900	Soil	17	54	<.4	859
S9124550	172510	+9325	+10900	Soil	28	98	<.4	807
S9124551	172511	+9350	+10900	Soil	24	89	<.4	801
S9124552	172512	+9375	+10900	Soil	25	66	<.4	836
S9124553	172513	+9400	+10900	Soil	68	111	<.4	402
S9124505	172965	+8400	+11000	Soil	35	61	<.4	556
S9124504	172964	+8425	+11000	Soil	64	82	<.4	487
S9124503	172963	+8450	+11000	Soil	19	49	<.4	649
S9124502	172962	+8475	+11000	Soil	16	56	<.4	707
S9124501	172961	+8500	+11000	Soil	14	49	<.4	710

## MAE 1991 GRID SOIL SAMPLES

EXP LAB NUMBER	FIELD NO	EAST	NORTH	MAT'L	Pb ppm	Zn ppm	Ag ppm	Ba ppm
S9124500	172960	+8525	+11000	Soil	84	141	<.4	579
S9124499	172959	+8550	+11000	Soil	27	70	<.4	670
S9124498	172958	+8575	+11000	Soil	20	51	<.4	729
S9124497	172957	+8600	+11000	Soil	59	70	<.4	E6821
S9124496	172956	+8625	+11000	Soil	37	55	<.4	709
S9124495	172955	+8650	+11000	Soil	199	219	<.4	410
S9124494	172954	+8675	+11000	Soil	110	165	<.4	619
S9124493	172953	+8700	+11000	Soil	57	212	<.4	570
S9124492	172952	+8725	+11000	Soil	73	126	<.4	836
S9124491	172951	+8750	+11000	Soil	90	208	<.4	650
S9124490	172950	+8775	+11000	Soil	53	122	<.4	935
S9124489	172949	+8800	+11000	Soil	11	47	<.4	787
S9124508	172968	+8825	+11000	Soil	195	205	<.4	1483
S9124506	172966	+8825	+11000	Soil	15	63	<.4	938
S9124507	172967	+8850	+11000	Soil	9	66	<.4	548
S9124509	172969	+8900	+11000	Soil	96	125	<.4	817
S9124510	172970	+8925	+11000	Soil	216	148	<.4	2968
S9124511	172971	+8950	+11000	Soil	75	201	<.4	2093
S9124512	172972	+8975	+11000	Soil	61	1420	<.4	2000
S9124513	172973	+9000	+11000	Soil	70	326	<.4	1308
S9124514	172974	+9025	+11000	Soil	44	387	<.4	1457
S9124515	172975	+9050	+11000	Soil	36	171	<.4	1239
S9124516	172976	+9075	+11000	Soil	22	128	<.4	793
S9124517	172977	+9100	+11000	Soil	14	103	<.4	888
S9124518	172978	+9125	+11000	Soil	66	115	<.4	1103
S9124519	172979	+9150	+11000	Soil	48	91	<.4	1496
S9124520	172980	+9175	+11000	Soil	115	171	<.4	926
S9124521	172981	+9200	+11000	Soil	739	137	<.4	939
S9124522	172982	+9225	+11000	Soil	43	75	<.4	967
S9124523	172983	+9250	+11000	Soil	31	55	<.4	780
S9124524	172984	+9275	+11000	Soil	24	86	<.4	1008
S9124525	172985	+9300	+11000	Soil	22	85	<.4	1085
S9124526	172986	+9325	+11000	Soil	20	71	<.4	948
S9124527	172987	+9350	+11000	Soil	99	79	<.4	437
S9124528	172988	+9375	+11000	Soil	46	136	<.4	550
S9124529	172989	+9400	+11000	Soil	124	499	<.4	738





**Map symbols**

- Geological boundary: defined, approximate, assumed
- Rock outcrop: float
- Bedding: horizontal, inclined, vertical, overturned
- Foliation: dip unknown, horizontal, known, vertical
- Lamination: inclination, plunge unknown
- Fault: inferred
- Fault: defined, dip, strike, assumed (indicates position, side)
- Syncline: anticline, overturned
- Minor fold: (arrow indicates plunge)
- Trench, gull
- Diamond: drainage
- Fixed locality
- Stream silt
- Shrub
- Waterfall
- Mapping station
- Rock sample

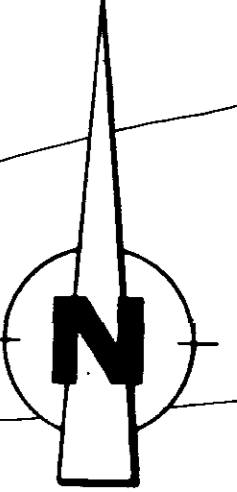
**Paleozoic (Barkerville Terrain)**

- 2 Bralco Marble** - marble, white to cream, coarse grained
- 1 Downey Succession** - metapelite, brown, shistose micaceous quartzite, black siltite, grey phyllite

GEOLOGICAL BRANCH  
ASSESSMENT REPORT

**21,886**

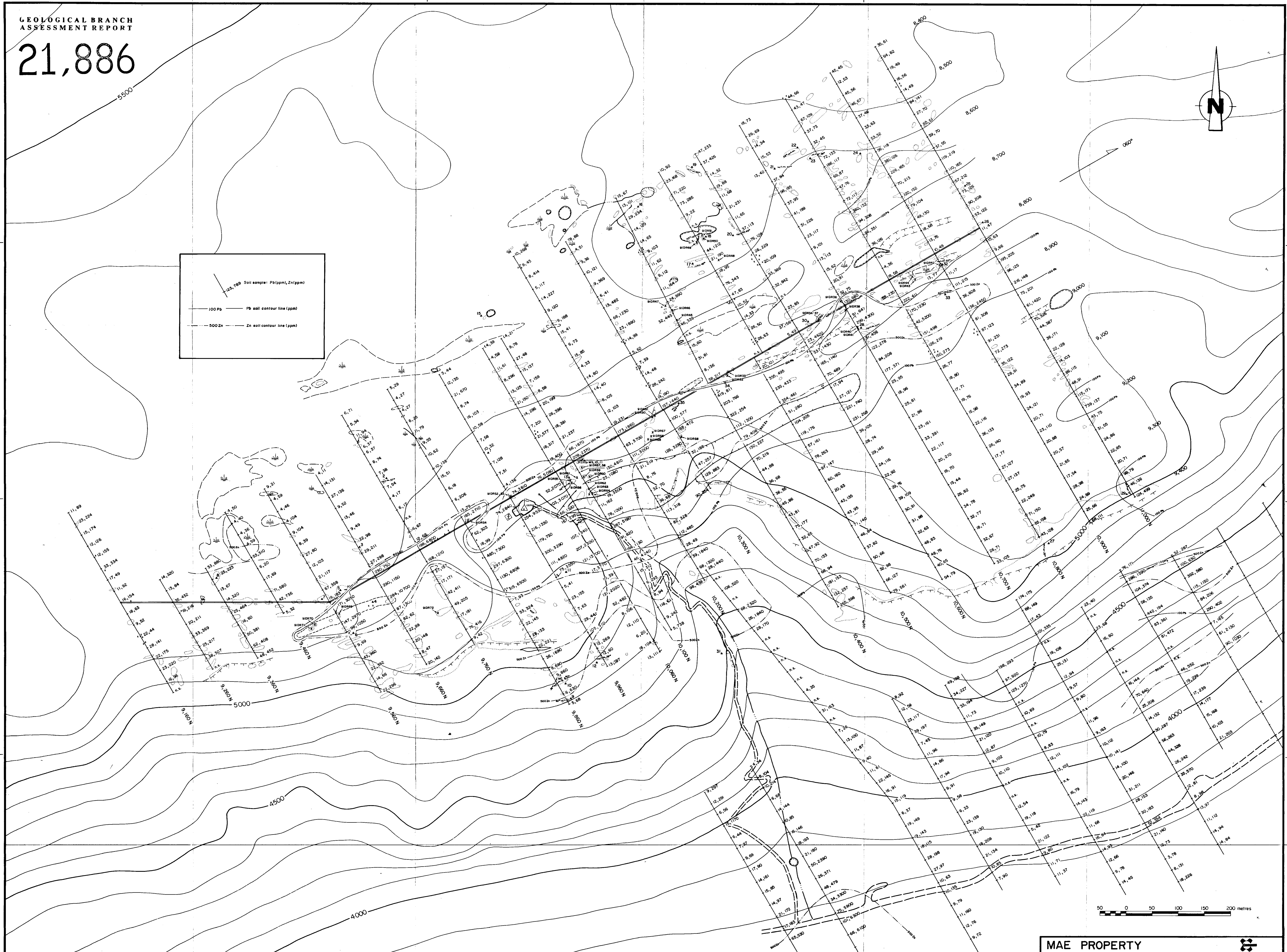
<b>MAE PROPERTY</b>	
Drawn by: DLG	Traced by:
Revised by:	Revised by:
Date:	Date:
Scale: 1:2,500	Date: October 1991
Plate: 1	FORM 218 (88)



103,789 Soil sampler: Pb(ppm), Zn(ppm)

— 100 Pb — Pb soil contour line (ppm)

— 500 Zn — Zn soil contour line (ppm)



**MAE PROPERTY**

Drawn by: DLC	Traced by:
Checked by:	Reviewed by:
Date:	Date:

SOIL GEOCHEMISTRY  
Pb(ppm) & Zn(ppm)

Scale: 1:2,500 Date: October 1991 Plate: