

ASSESSMENT REPORT

GEOCHEMICAL AND PROSPECTING REPORT

ON THE

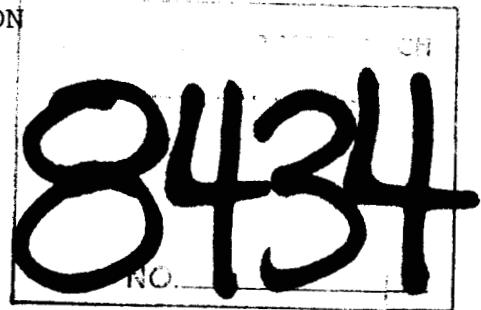
PERRY 1, PERRY 2,

MASON 1 AND MASON 2 CLAIMS (62 UNITS)

TOODOGGONE RIVER AREA

OMINECA MINING DIVISION

by



SHEILA A. CRAWFORD AND MOHAN R. VULIMIRI

LOCATION: N.T.S. 94E/6E  
57°15' to 57°17' N. Latitude  
127°08' to 127°12' W. Longitude

OWNER: SEREM Ltd.

OPERATOR: SEREM Ltd.

DATES WORK PERFORMED: June 3, 9, 1980  
July 11, 14, 22, 23 and 31, 1980  
August 1, 2, 6 and 20, 1980

DATE: October 31, 1980

## ABSTRACT

Geochemical silt and soil sampling, along with minor mapping and prospecting, were carried out on the Perry 1, Perry 2, Mason 1 and Mason 2 claims during the 1980 field season. The claims are located in the Toodoggone River area (N.T.S. 94E/6E), 280 kilometres north of Smithers, B.C. A total of 15 silt, 548 soil and 8 rock samples were analysed for gold, silver, copper, lead and zinc.

The area is underlain by mafic to intermediate volcanics and fault-bound marble, intruded by a multiple phase pluton. The intrusive contact is silicified and contains several large quartz veins. A skarn zone occurs along the intrusive marble contact.

Several anomalous areas, notably of silver values, are outlined by the samples. They are spatially related to fracture systems and alteration zones bordering the intrusion. Some lead-zinc-silver mineralization occurs in the skarn.

Alteration assemblages indicate that a hydrothermal system propitious for mineralization is present, and there are enough anomalous geochemical values to warrant further exploration. Detailed prospecting and mapping followed by trenching is recommended.

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## INTRODUCTION

The Perry and Mason claim groups are located between 57°15' N and 57°17' N latitude, and 127°08' W and 127°12' W longitude in the Toodoggone River map sheet N.T.S. 94E/6E, Omineca Mining Division (see Figures 1 and 2). Elevation ranges from approximately 1100 metres to 1850 metres above sea level.

The claims included in these groups are as follows:

<u>Claim Name</u>	<u>Number of Units</u>	<u>Tag Number</u>
Perry 1	20	53565
Perry 2	20	53566
Mason 1	6	53563
Mason 2	16	53564

They are owned and operated by Serem Ltd.

Access to the property is by fixed wing plane from Smithers to Sturdee Airstrip, a distance of about 280 kilometres; and from Sturdee Airstrip to the property by helicopter, a distance of about 3 kilometres.

The claims were staked on the basis of a highly anomalous sieve sample from Pau Creek. No previous work, other than that sampling, has been done in the area covered by the claims. The Baker gold-silver mine is about 1.5 kilometres east of Mason 1.

Work performed during the 1980 field season includes geochemical silt sampling of Pau Creek; soil sampling and prospecting along treeline (roughly constant elevation); soil sampling on two grids and preliminary mapping and prospecting in the north grid area of approximately 1.6 square kilometres. The number of samples taken in each area are as follows:

<u>Sample Type</u>	<u>Area</u>	<u>Claim Group</u>	<u>No. of Samples</u>
Silt	Pau Creek	Perry 1	5
		Perry 2	2
		Mason 2	<u>8</u>
	Total		15
<hr/>			
Soil	Treeline traverse	Perry 2	32
		Mason 2	5
	North soil grid	Perry 1	83
		Perry 2	84
		Mason 1	86
	South soil grid	Mason 2	62
		Perry 2	4
		Mason 2	<u>192</u>
Total		548	
<hr/>			
Rock	Prospecting	Perry 1	4
		Mason 1	3
		Mason 2	<u>1</u>
	Total		8

The purpose of the work performed this year was to narrow the geochemical target area indicated by the sieve sample and assess the geology for favourable mineralization conditions.

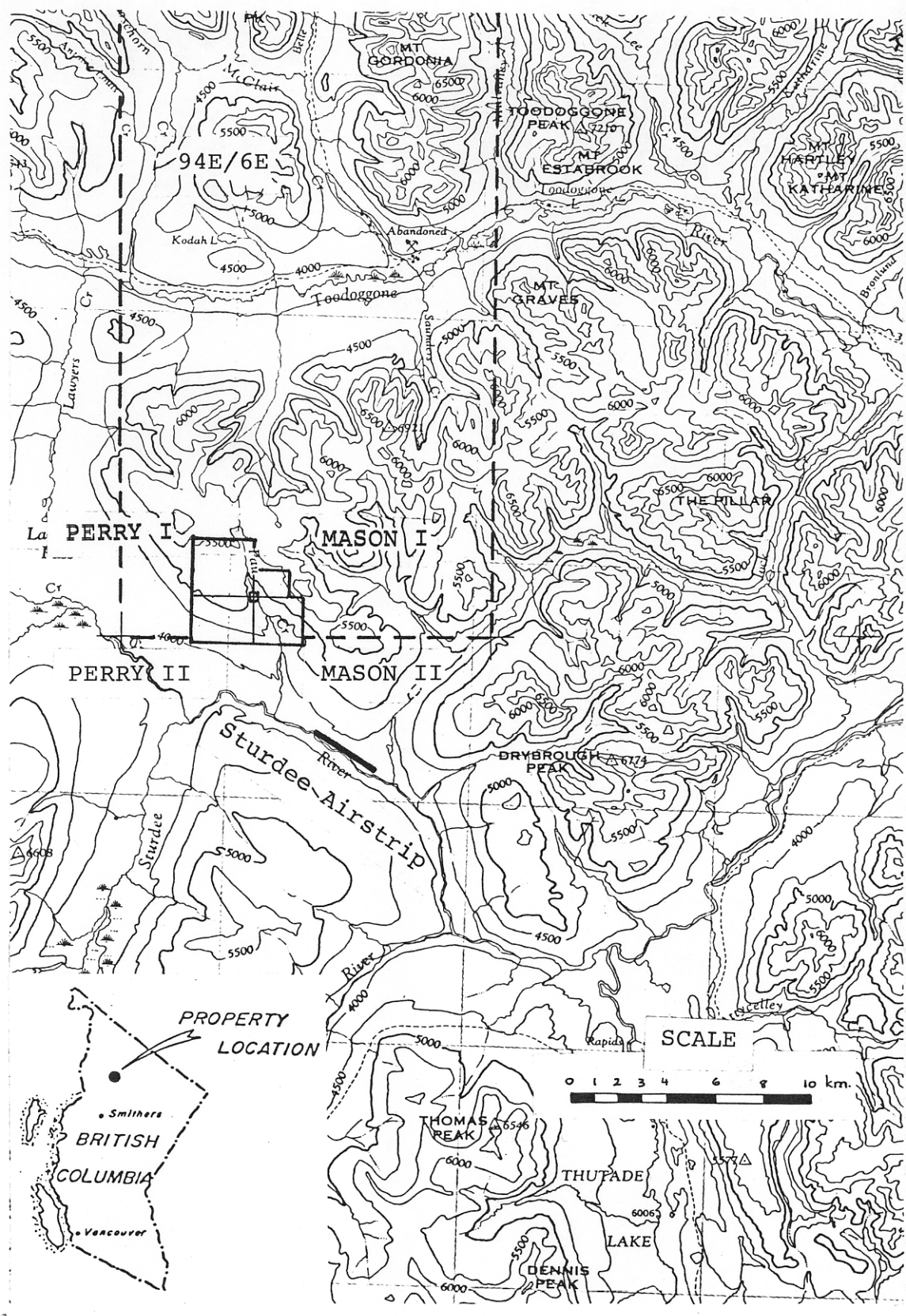


Fig. 1. Location of Perry 1, Perry 2, Mason 1 and Mason 2 Claim Groups.



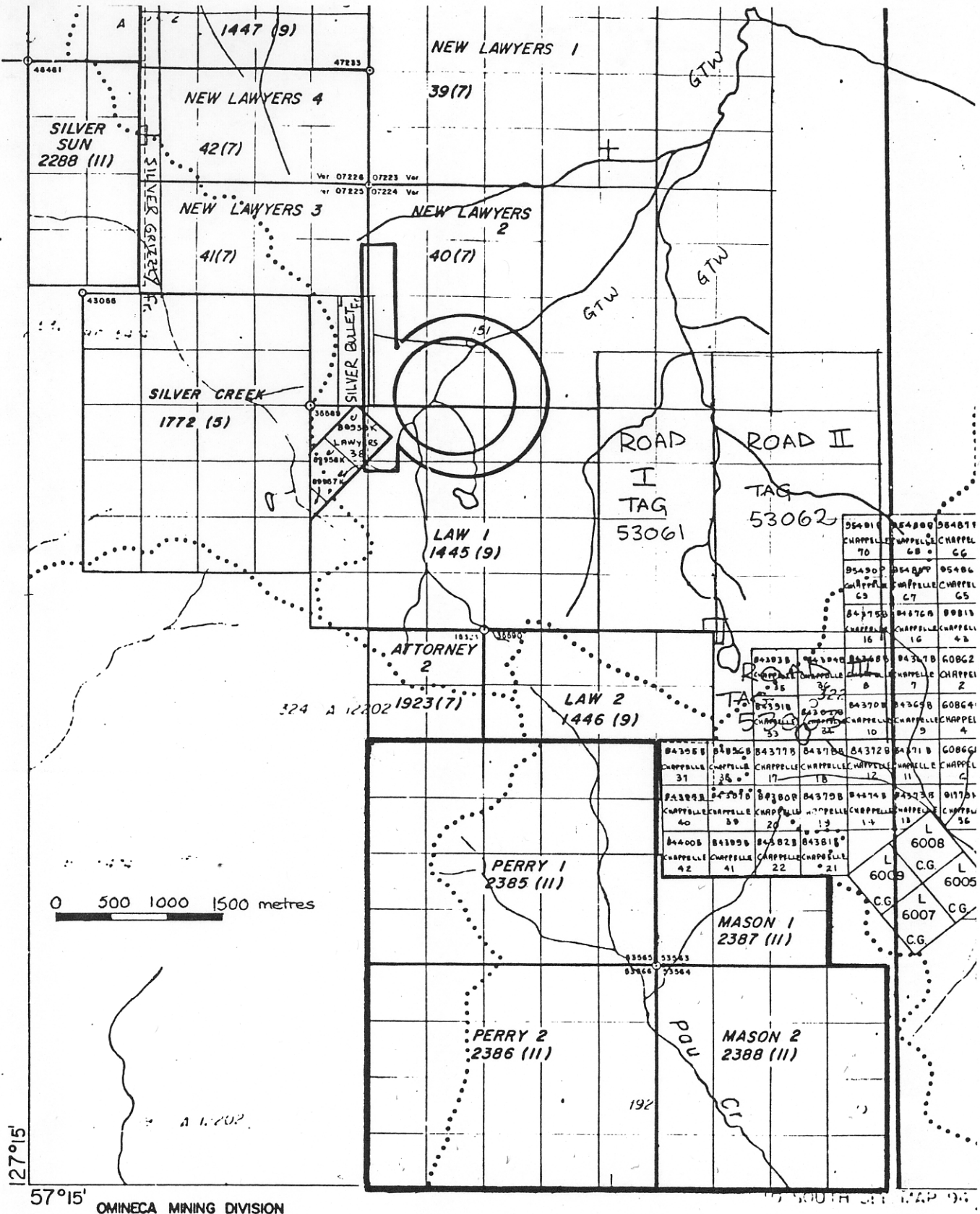


Fig. 2. Claims Map: Perry 1, Perry 2, Mason 1 and Mason 2 Claim Groups.

GEOLOGY

The claims are underlain by marble, volcanics of mafic to intermediate composition and associated conglomerate and chert. These rocks are intruded by a multiple phase pluton (Figures 3 and 4).

The marble is composed of pale grey to white, medium grained calcite with relict primary bioturbation textures and broken fossils. Bedding planes are poorly defined. The block appears to be fault bound. A skarn zone, marked by silicified limestone and patches of dark green amphibole, occurs along the intruded contact.

Mafic volcanic rocks consist of aphanitic to hornblende porphyritic massive flows, recrystallized to fine grained chlorite at the intrusive contact. Black to grey laminated cherts outcrop adjacent to the mafic volcanics. To the north are more felsic, pyroclastic volcanics, whose fragments are composed of porphyritic plagioclase in a hematitic groundmass. The pyroclastics grade to conglomerate of the same composition.

Medium grained, dark green gabbro outcrops in the northeast.

The pluton is composed of at least three phases. The oldest is a coarse grained quartz monzonite with pale pink

weathering plagioclase, white weathering orthoclase and dark green hornblende and chlorite. This is intruded by pink, fine- to medium-grained and rarely megacrystic granite and aplite. Orange weathering fine- to medium-grained syenite is peripheral to the main intrusive body and is probably a late phase.

Gabrielse et al (1975) assign marbles in the area to the Permian Asitka Group, mafic volcanics, sills and the cherts to the Upper Triassic Takla Group, similar pyroclastics and conglomerate to the Lower Jurassic Hazelton Group, and intrusions to the Lower to Middle Jurassic.

Several faults cut the stratigraphy and trend from northeast to northwest.

#### ALTERATION AND MINERALIZATION

The intrusive border is strongly silicified adjacent to the marble block. To the north, veins of iron and manganese-stained massive quartz up to three meters wide occur along the contact with the volcanics and cherts. Pyrite generally forms less than 5% of the silicified rock or quartz vein.

Galena, sphalerite and pyrite have been observed in silicified portions of the skarn zone.

The volcanics contain abundant epidote, potassic feldspar and vuggy quartz fracture fillings adjacent to the intrusion. Propylitic alteration and up to 20% disseminated pyrite envelope fault zones. Minor amounts of chalcopyrite occur in the gabbro next to the intrusive contact.

#### GEOCHEMICAL SILT SAMPLING

Silt samples were collected along Pau Creek at 250 metre intervals, depending on where suitable silt could be found (Figure 5). Samples were taken from active material, that is, under flowing water, and placed in brown paper envelopes. The sample site and number were plotted on a map with a scale of 1 centimetre to 500 metres. Stream gradient and flow rate were noted.

#### GEOCHEMICAL SOIL SAMPLING

Soil samples were taken at 100 metre intervals along treeline, controlling distance with Topofil and flagging each site (Figure 3).

Two soil grids were set up on areas where silt samples were anomalous. Samples were collected at 50 metre intervals on lines 50 metres apart (Figures 6a to 6e and 7a to 7e).

The baseline, common to both grids, trends  $160^{\circ}$ . Control was kept by compass and Topofil, and each station was marked by surveyor's flagging with the station locality written on it.

Samples were collected from the B horizon where developed, the top of the C horizon if a B horizon was not developed, and the A horizon in swampy areas. Most samples were from the C horizon and were taken from depths ranging from 10 to 35 centimetres. Soil was placed in brown paper bags and the grid location, depth of sampling, horizon, colour, grain size and amount of organic material were noted.

Soil is generally poorly developed. Parent materials include glacial till, stream sediments and outcrop. About half of the north grid and all of the south grid are below treeline.

#### GEOCHEMICAL ROCK SAMPLING

Grab samples were selected from outcrops of favourable geology (Figure 4, Table 1). Half of each sample was sent for geochemical analysis, and location and rock type were noted.

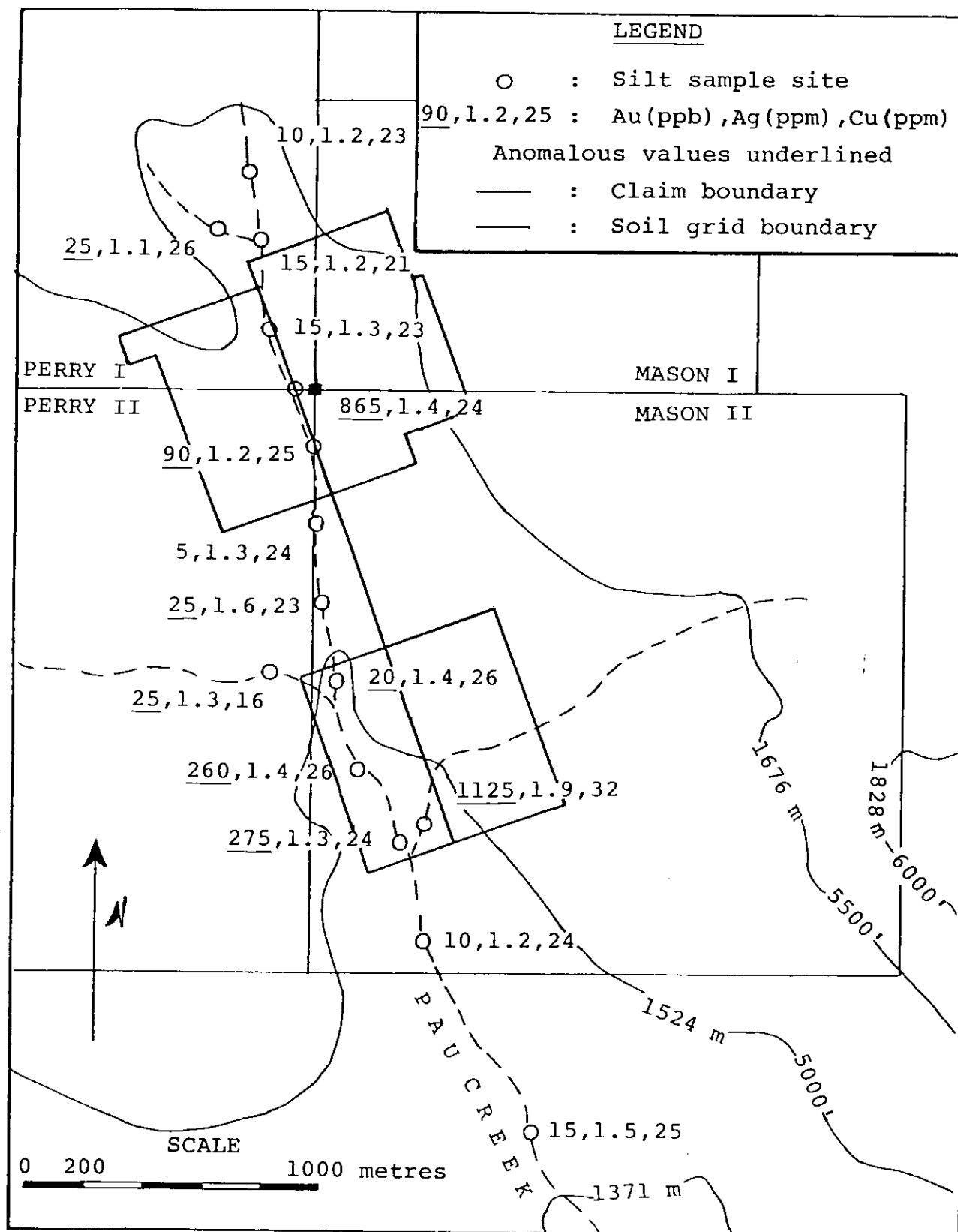


Fig. 5. Location of silt samples and corresponding gold, silver and copper values, and location of soil grids.

Table 1. Rock Geochemical Analyses.

Sample No.	Rock Type	Au (ppb)	Ag	Cu	Pb	Zn
			(ppm)			
SC-34-79-1	Quartz vein	< 5	0.4	4	13	13
3	Tuffaceous sediment with disseminated pyrite	5	1.2	28	17	92
4	"	10	2.2	10	25	75
5	Vuggy, limonite-stained quartz	25	2.6	14	52	3760
7	Quartz-veined chert	30	2.8	20	605	160
17	Gabbro near contact with granodiorite	60	1.6	310	180	36
20	Silicified intrusive	15	1.0	79	49	144
21	Skarn with galena and sphalerite	155	86.0	60	49000	2450

#### GEOCHEMICAL ANALYSIS

Samples were sent to Min-En Laboratories and were analysed for gold, silver, lead, zinc and copper. The analytical procedure for each element is briefly described below:

The samples are dried at 95° C. Soil and stream sediment samples are screened by 80 mesh sieve to obtain the minus 80 mesh fraction for analysis. The rock samples are crushed and pulverized by ceramic plated pulverizer.

For gold, a suitable sample, weight 5 or 10 grams, is pretreated with HNO<sub>3</sub> and HClO<sub>4</sub> mixture.

After pretreatment the samples are digested with Aqua Regia solution, and after digestion the samples are taken up with 25% HCl to suitable volume.

Sample solutions are prepared with Methyl Iso-Butyl Ketone for the extraction of gold.

With a set of suitable standard solutions, gold is analysed by Atomic Absorption instruments. The obtained detection limit is 5 ppb.

For silver, lead, zinc, and copper, samples weighing 1.0 gram are digested for 6 hours with HNO<sub>3</sub> and HClO<sub>4</sub> mixture.

After cooling, the samples are diluted to standard volume. The solutions are analysed by Atomic Absorption Spectrophotometers using the CH<sub>2</sub>H<sub>2</sub>-Air Flame combination.

#### INTERPRETATION

Silt sample results, with anomalous values underlined, are plotted on Figure 5. Out of 15 samples, nine are anomalous in gold, ranging up to 1125 ppb. Silver is in the high background range and copper is low in all samples. The two soil grids cover areas on and upstream of the highly anomalous gold results.

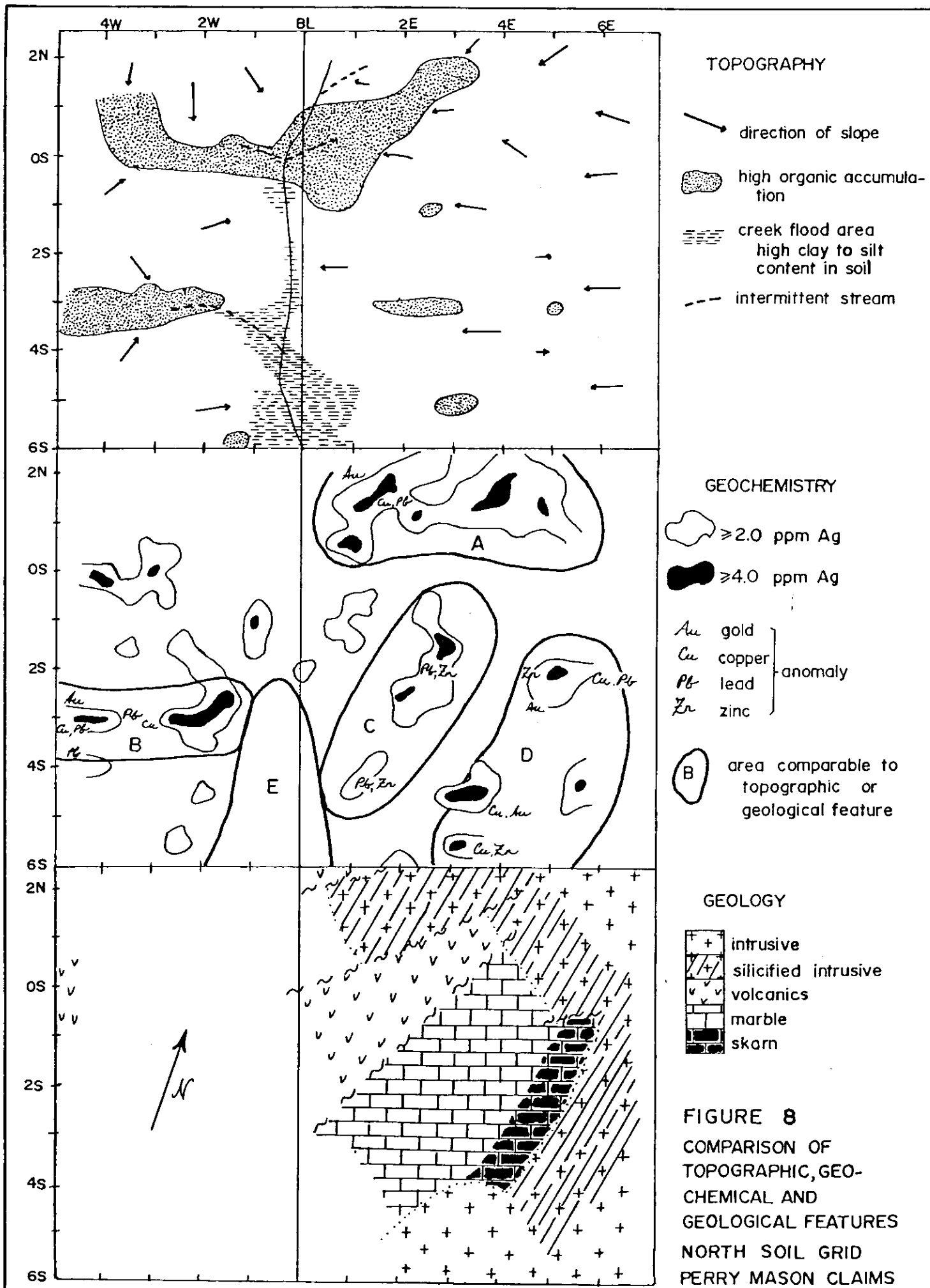
Results from the treeline contour soil traverse are plotted on Figure 3. Anomalous values are underlined. The main area of interest is the southwest corner of the Perry 2 claims where silver values up to 5.6 ppm and marginally anomalous gold, copper, lead and zinc were obtained. These samples are high in organic content



compared to most on the traverse and are adjacent to a small drainage - factors which may enhance the anomaly. Marginally anomalous gold values occur near the volcanic-granite contact.

Gold, silver, copper, lead, and zinc values are plotted individually for the soil grids on Figures 6a to 6e respectively for the north grid and Figures 7a to 7e for the south grid. Results are contoured.

The highest values obtained in the north grid are 600 ppb gold, 9.2 ppm silver, 610 ppm copper, 880 ppm lead and 2120 ppm zinc. Several silver anomalies are outlined; these are compared with topographic and geological features in Figure 8. The anomalies, in particular Area B, appear to be enhanced in areas of high organic accumulation (areas where only black, organic-rich soil is available for sampling). In contrast, the portion of the grid covered by stream clay and silt is notable for its lack of anomalous values. Geologically, there is a strong correlation between the Area C silver-lead-zinc anomalies and the marble. Areas A and D appear to be related to the silicified intrusive border and adjacent skarn zone. Linears defined by the geochemical anomalies trend about  $035^{\circ}$ ,  $070^{\circ}$  and  $120^{\circ}$ . These reflect faults and related fracture systems observed in the geology. The  $120^{\circ}$  trend is probably emphasized by downslope dispersion.



Only gold and silver are anomalous in the south grid - copper, lead and zinc are in the background range. Except for one isolated high of 1800 ppb gold, gold values are all below 90 ppb. The maximum silver value obtained is 3.5 ppm. Most of the soil grid area is high in stream silt and clay, which may have a masking effect similar to that noted for the north grid area. The anomalies do not define any pronounced linear patterns.

Rock samples are listed in Table 1 with their corresponding geochemical analyses. The skarn sample (21) is the only one of interest, running 86 grams/tonne or 2.5 ounces per ton silver and 4.9% lead. The silver-to-lead ratio suggests that argentiferous galena is the source of the silver.

#### CONCLUSIONS AND RECOMMENDATIONS

Soil and silt analyses have returned enough anomalous values to warrant further exploration. Rock alteration observed in the north grid area, especially along the intrusive contact, indicates that a hydrothermal system was active and may have produced vein type mineralization in the country rocks. In addition, the marble may contain significant quantities of lead, zinc and silver mineralization.

Detailed prospecting and mapping, followed by trenching, should be carried out. Further soil contour traverses or grids may be necessary in areas where prospecting is difficult.

REFERENCE

Gabrielse, H.; Dodds, C.J.; Mansy, J.L. and Eisbacher, G.H.  
1975: Geology of Toodoggone River (94 E) and Ware West-half; G.S.C. Open File 483, Geological Survey of Canada.

STATEMENT OF EXPENDITURESAnalyses:

## Soils and silts:

488 analysed for Au, Ag, Cu, Pb, Zn @ \$8.85	\$4,318.80
19 " " Au, Ag, Cu or Zn @ \$7.35	139.65
52 " " Au, Ag @ \$5.60	291.20
4 " " Ag, Cu, Pb, Zn @ \$4.60	18.40
Rocks: 8 " " Au, Ag, Cu, Pb, Zn @ \$10.25	82.00

## Shipping cost from Smithers to Vancouver laboratory:

571 samples @ \$0.30	<u>171.30</u>
	\$5,021.35

Wages:

## Geochemical sampling:

June 3, 9; July 11, 14, 22, 23, 31;  
August 6, 20.

R. MacRae	4 days @ \$40	\$160.00
J. Rushton	2½ days @ \$50	125.00
R. Stowe	3½ days @ \$40	140.00
J. Sweeney	3 days @ \$40	120.00

## Geology: June 9; August 1, 2.

M. Carr	1 day @ \$70	70.00
S. Crawford	1½ days @ \$70	105.00

## Report writing:

S. Crawford	3 days @ \$70	210.00
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## Drafting:

S. Crawford	5 days @ \$70	<u>350.00</u>
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\$1,280.00

(Continued)

STATEMENT OF EXPENDITURES (Continued)

<u>Board, Lodging and Field Expenses</u>	<u>Per Man Day</u>	
Food	\$10.80	
Expediting	3.00	
Equipment (lumber, hardware, generator, radio telephone)	10.43	
Fixed wing support (does not include mobilization or JP-4 fuel hauls)	13.19	
Helicopter support "	5.50	
Fuel (propane, oil stoves)	<u>4.12</u>	
	\$47.04	
15½ man days @ \$47.04		\$ 729.12
<u>Transportation</u>		
Helicopter		
3:40 hours @ \$310 + \$102 fuel		<u>1,510.39</u>
Total		<u><u>\$8,540.86</u></u>

CERTIFICATE OF QUALIFICATIONS

I, Sheila A. Crawford, certify that:

1. I am a geologist, employed by SEREM Ltd.
2. I have an Honours Bachelor of Science (First Class) in Geology from Carleton University in Ottawa, Ontario.
3. I have worked in mineral exploration or geological mapping since 1975 and have acted in responsible positions since 1979.
4. I personally examined the property and directed the geochemical survey.
5. I have no financial interest, either direct or indirect, in the property.

Vancouver, B.C.

Sheila A. Crawford.

CERTIFICATE OF QUALIFICATIONS

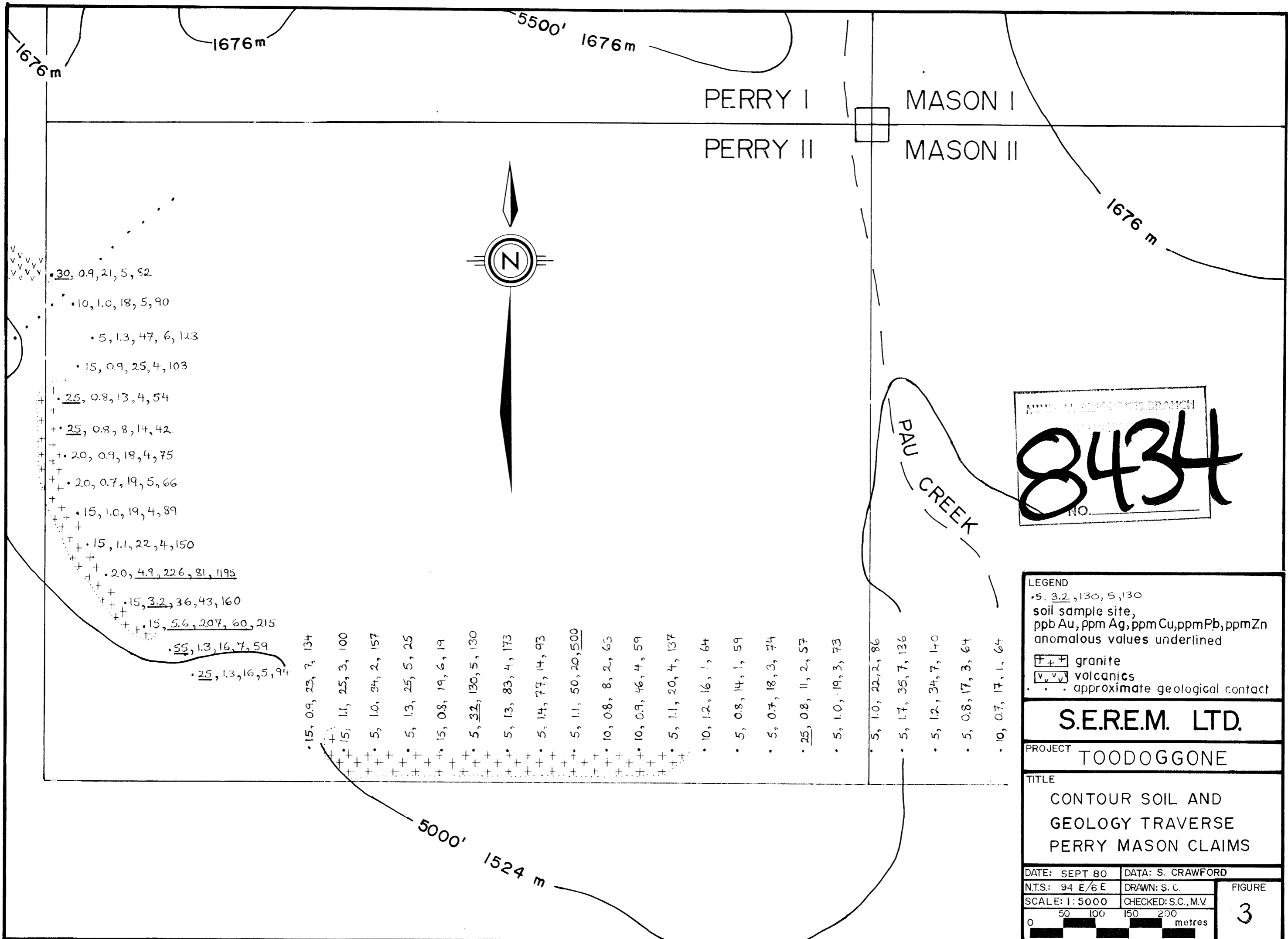
I, Mohan R. Vulimiri, certify that:

1. I am a geologist, employed by SEREM Ltd.
2. I am a graduate with a Master of Science degree in Economic Geology from the University of Washington.
3. I am involved in mineral exploration in British Columbia since 1970 and have acted in responsible positions since 1974.
4. I have no financial interest, either direct or indirect, in the property.
5. The information contained in this report was obtained under my supervision.

Vancouver, B.C.

Mohan R. Vulimiri.





1676m

1676m

5500' 1676m

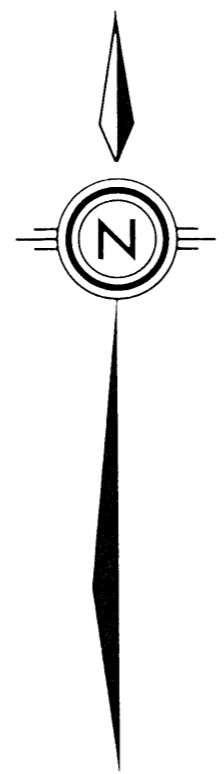
PERRY I

MASON I

PERRY II

MASON II

1676m



- 30, 0.9, 21, 5, 52
- 10, 1.0, 18, 5, 90
- 5, 1.3, 47, 6, 123
- 15, 0.9, 25, 4, 103
- + 25, 0.8, 13, 4, 54
- + 25, 0.8, 8, 14, 42
- + 20, 0.9, 18, 4, 75
- + 20, 0.7, 19, 5, 66
- + 15, 1.0, 19, 4, 89
- + 15, 1.1, 22, 4, 150
- + 20, 4.9, 226, 81, 1195
- + 15, 3.2, 36, 43, 160
- + 15, 5.6, 207, 60, 215
- 55, 1.3, 16, 7, 59
- 25, 1.3, 16, 5, 94

- 15, 0.9, 23, 7, 134
- 15, 1.1, 25, 3, 100
- 5, 1.0, 34, 2, 157
- 5, 1.3, 25, 5, 25
- 15, 0.8, 19, 6, 19
- 5, 3.2, 130, 5, 130
- 5, 1.3, 83, 4, 173
- 5, 1.4, 77, 14, 93
- 5, 1.1, 50, 20, 500
- 10, 0.8, 8, 2, 65
- 10, 0.9, 46, 4, 59
- 5, 1.1, 20, 4, 137
- 10, 1.2, 16, 1, 64
- 5, 0.8, 14, 1, 59
- 5, 0.7, 18, 3, 74
- 25, 0.8, 11, 2, 57
- 5, 1.0, 19, 3, 73
- 5, 1.0, 22, 2, 86
- 5, 1.7, 35, 7, 136
- 5, 1.2, 34, 7, 140
- 5, 0.8, 17, 3, 64
- 10, 0.7, 17, 1, 64

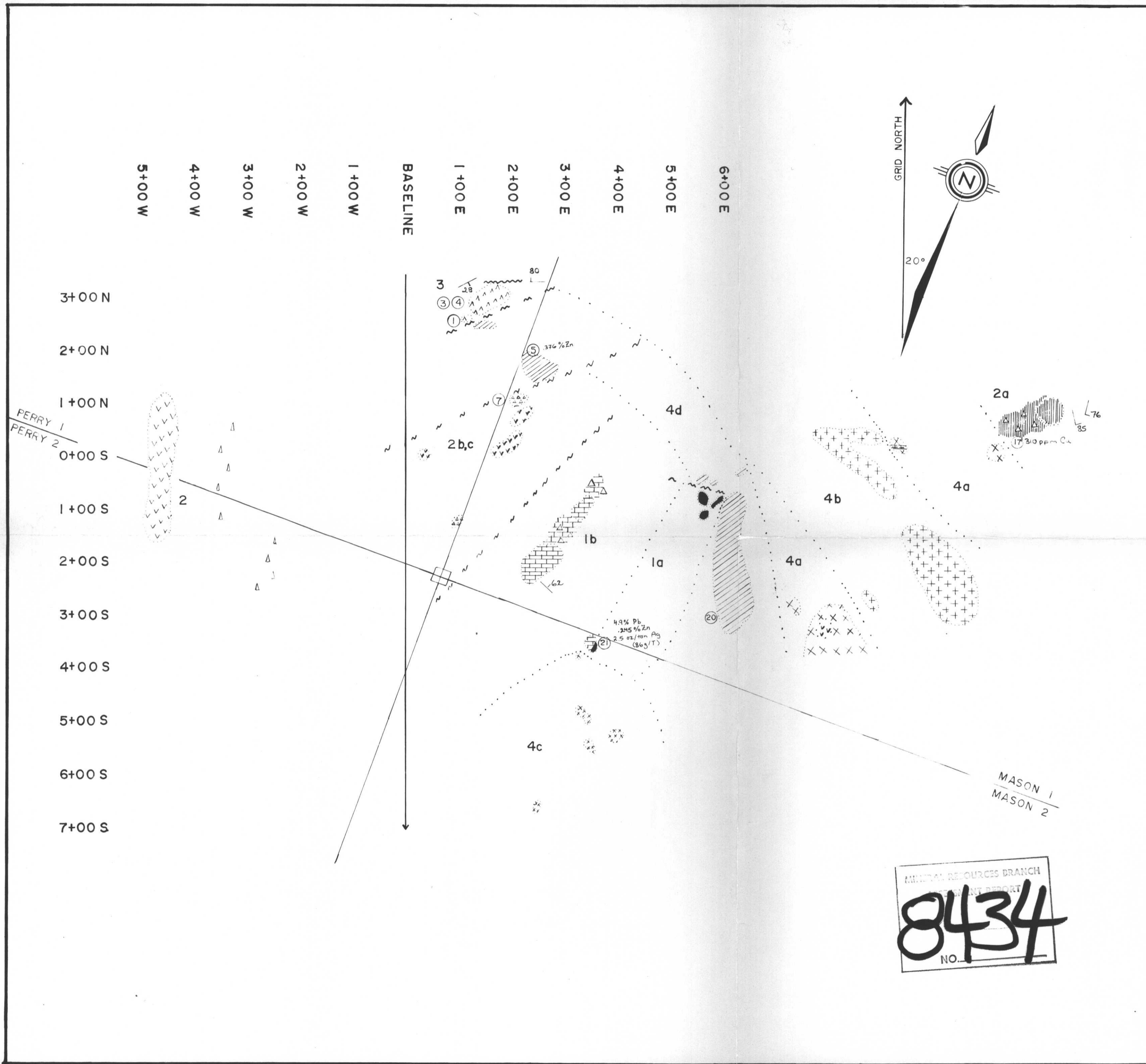
PAU CREEK

MINERAL DEVELOPMENT BRANCH  
**8434**  
 NO.

LEGEND  
 • 5, 3.2, 130, 5, 130  
 soil sample site,  
 ppb Au, ppm Ag, ppm Cu, ppm Pb, ppm Zn  
 anomalous values underlined  
 + granite  
 v volcanics  
 - approximate geological contact

**S.E.R.E.M. LTD.**  
 PROJECT TOODOGGONE  
 TITLE  
 CONTOUR SOIL AND  
 GEOLOGY TRAVERSE  
 PERRY MASON CLAIMS

DATE: SEPT 80	DATA: S. CRAWFORD	FIGURE <b>3</b>
N.T.S.: 94 E/6 E	DRAWN: S. C.	
SCALE: 1: 5000	CHECKED: S.C., M.V.	
0 50 100 150 200 metres		



LEGEND

LOWER TO MIDDLE JURASSIC

- 4d silicified intrusive, quartz veins
- 4c syenite
- 4b granite, aplite
- 4a quartz monzonite
- 3 intermediate pyroclastics, conglomerate

UPPER TRIASSIC TO LOWER JURASSIC

- v2 undifferentiated mafic to intermediate volcanics
- v2c mafic volcanic flows
- 2b chert
- 2a gabbro

PERMIAN

- lb marble
- la skarn

- outcrop or area of outcrops
- frost heave
- granite, quartz monzonite boulder pile
- geological contact approximate, assumed
- fault observed, approximate, assumed
- bedding plane and dip
- fracture plane and dip
- rock geochemical sample see Table I for data

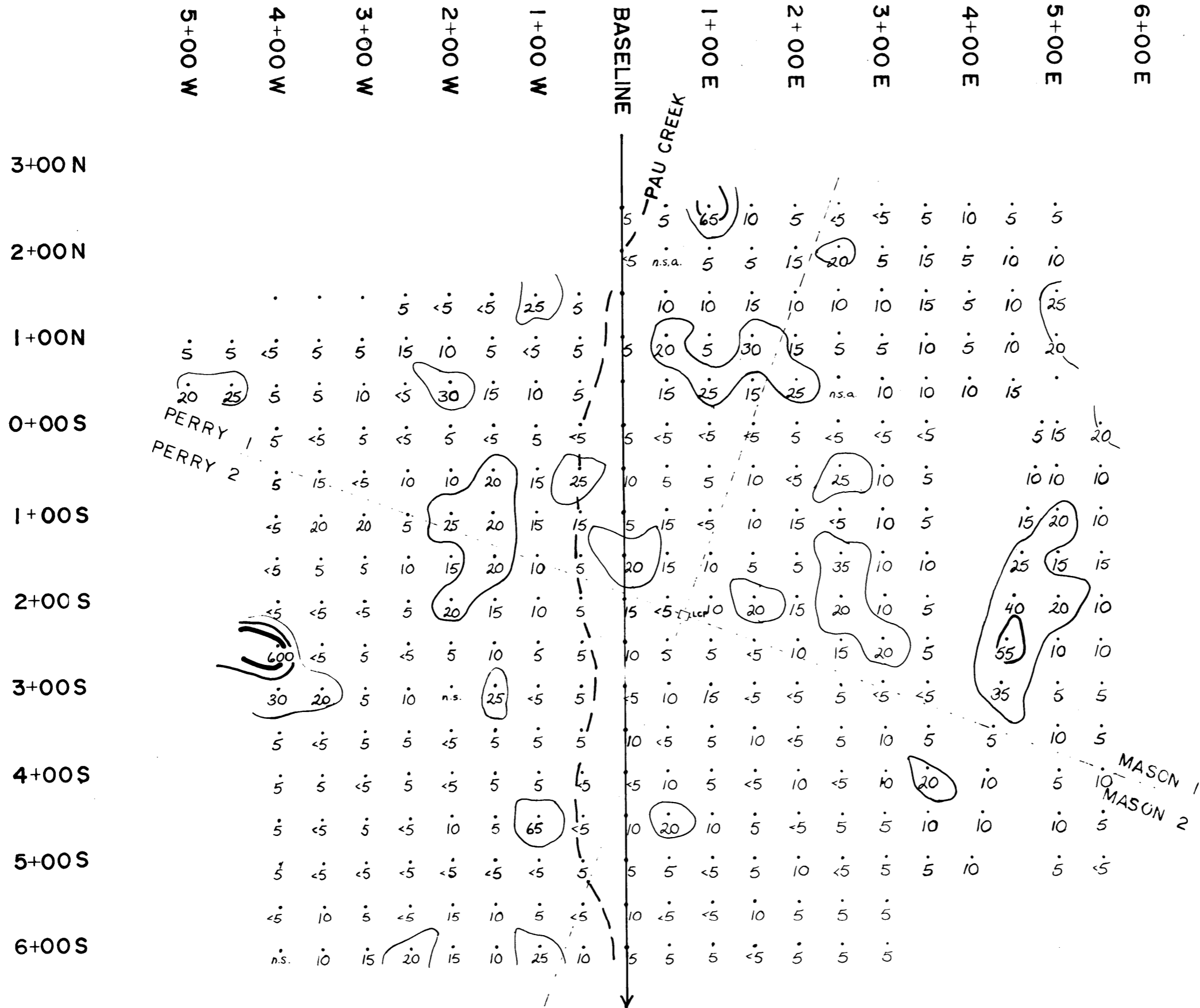
**S.E.R.E.M. LTD.**

PROJECT TOODOGGONE

TITLE GEOLOGY OF NORTH SOIL GRID AREA PERRY MASON CLAIMS

DATE SEPT. 1980	DATA S. CRAWFORD	FIGURE 4
N.T.S. 94E/6E	DRAWN S. CRAWFORD.	
SCALE 1:5000	CHECKED S.C., M.V.	
0 50 100 150 200 250 metres 500		

MINERAL RESOURCES BRANCH  
 REPORT NO. 8434



GRID NORTH

20°

MINERAL RESOURCES BRANCH  
ASSESSMENT REPORT

# 8434

FIG. NO.

LEGEND

- soil sample site, ppb Au
- ≥ 20 ppb Au
- ◊ ≥ 40 ppb Au
- ⊙ ≥ 100 ppb Au

**S.E.R.E.M. LTD.**

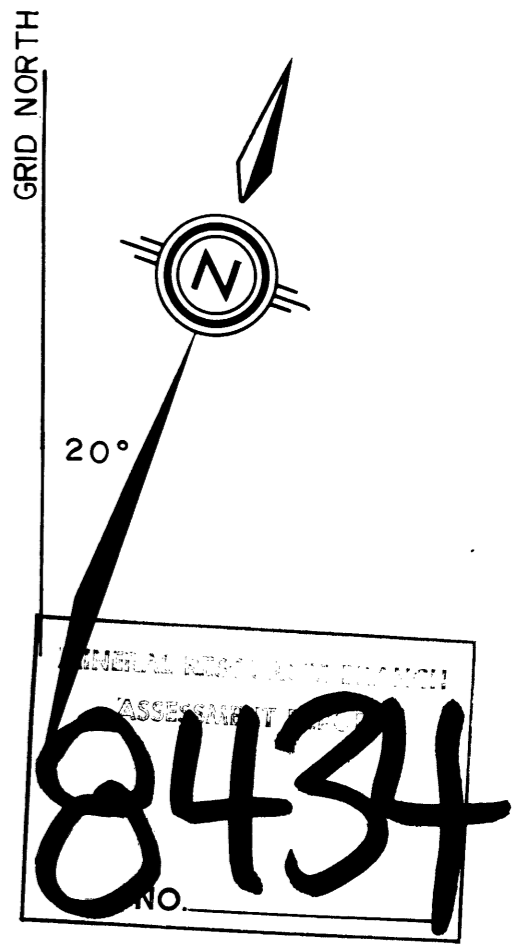
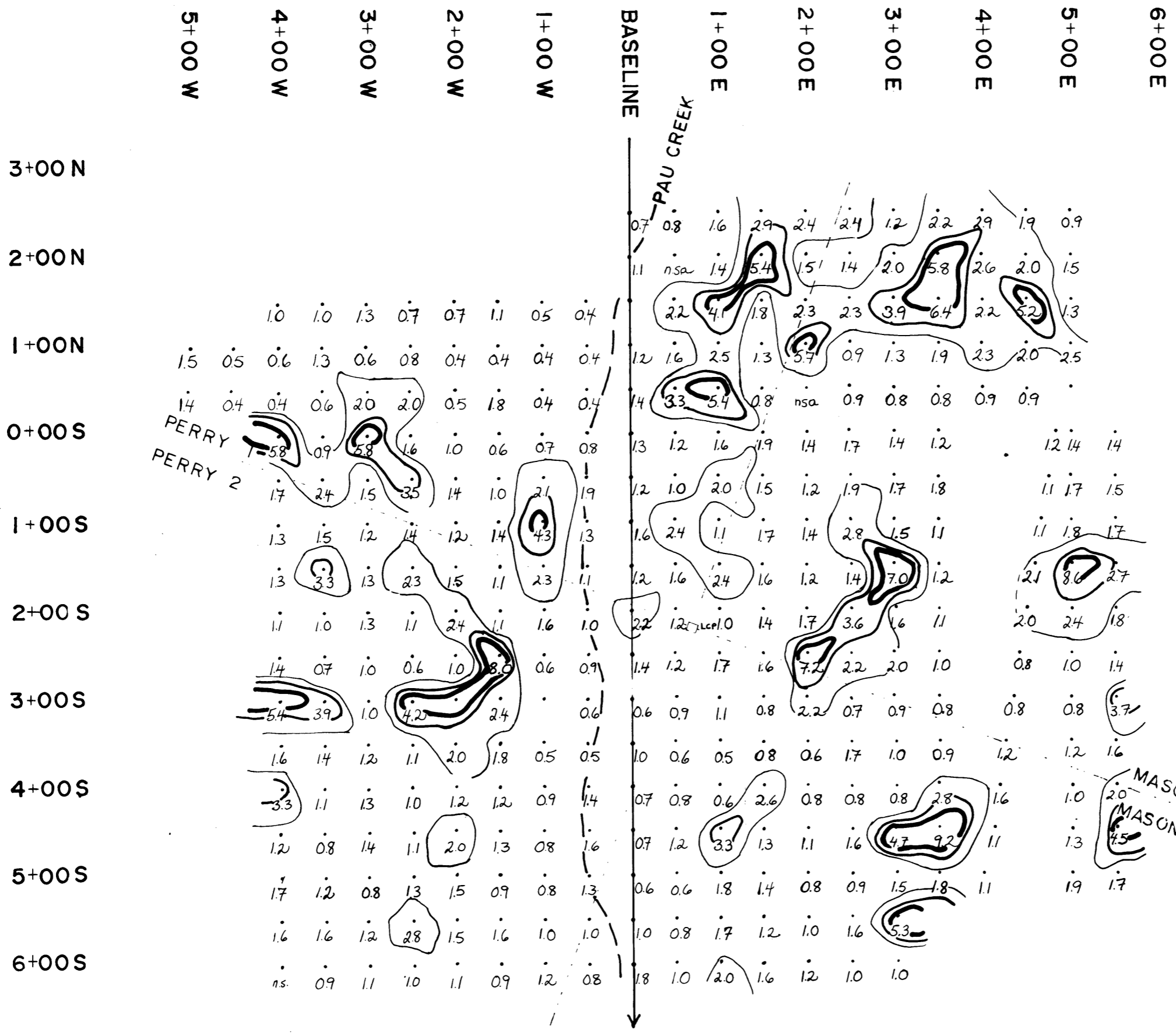
PROJECT TOODOGGONE

TITLE  
GOLD IN SOIL  
NORTH SOIL GRID  
PERRY MASON CLAIMS

DATE: SEPT 1980	DATA: S. CRAWFORD
N.T.S.: 94 E/6 E	DRAWN: S. C.
SCALE: 1: 5000	CHECKED: S.C., M.V.

0 50 100 150 200 metres

FIGURE 6a



LEGEND	
2.0	soil sample site, ppm Ag
○	≥ 2.0 ppm Ag
○	≥ 3.0 ppm Ag
○	≥ 4.0 ppm Ag
<b>S.E.R.E.M. LTD.</b>	
PROJECT	TOODOGGONE
TITLE	SILVER IN SOIL NORTH SOIL GRID PERRY MASON CLAIMS
DATE: SEPT 1980	DATA: S.CRAWFORD
N.T.S.: 94 E/6 E	DRAWN: S. C.
SCALE: 1:5000	CHECKED: S.C., M.V.
FIGURE <b>6b</b>	

	5+00 W	4+00 W	3+00 W	2+00 W	1+00 W	BASELINE	PAU CREEK	1+00 E	2+00 E	3+00 E	4+00 E	5+00 E	6+00 E								
3+00 N						14	11	48	68	48	59	24	29	26	12	14					
2+00 N						24	nsa	24	122	25	31	39	62	38	33	31					
1+00 N		17	31	23	11	17	19	21	23	59	31	28	38	37	67	77	47	26	16		
0+00 S	57	14	19	35	19	21	16	18	27	13	21	26	17	16	17	13	18	23	25	40	22
1+00 S	33	17	18	32	46	32	11	37	16	17	30	38	89	25	nsa	15	23	27	15	18	
2+00 S	PERRY 1	101	17	60	45	28	15	20	25	26	17	31	145	39	36	22	26		32	26	23
3+00 S	PERRY 2	38	49	40	51	34	18	67	17	27	19	22	19	17	15	19	34		28	21	29
4+00 S		34	33	24	37	21	29	65	20	19	46	20	25	18	33	13	22		30	24	73
5+00 S		23	72	28	52	45	18	39	20	34	18	37	19	15	24	57	41		44	189	70
6+00 S		17	18	26	15	63	22	25	20	38	34	15	21	26	43	25	33		64	75	92
7+00 S	76	25	136	17	28	92	30	28	22	15	22	17	36	29	24	17			16	12	166
8+00 S	610	335	26	104	38			23	17	19	20	35	27	17	16	21			24	17	39
9+00 S	51	64	26	28	35	72	17	21	20	16	11	77	18	19	22	17			19	16	56
10+00 S	54	44	44	25	20	19	21	17	29	12	20	22	17	33	21	156			13	16	
11+00 S	31	16	34	30	38	21	25	31	25	19	37	23	16	31	64	117			16	21	55
12+00 S	29	17	18	30	17	17	23	31	17	11	40	44	25	31	29	220			15	34	77
13+00 S	39	33	21	38	24	39	15	28	24	22	27	28	26	51	140						
14+00 S	ns	22	22	16	22	13	18	21	33	14	30	26	16	33	28						

PERRY 1  
PERRY 2

MASON 1  
MASON 2

GRID NORTH

20°

MINERAL RESOURCES BRANCH

**8434**

NO.

LEGEND

- 101 soil sample site, ppm Cu
- ≥ 100 ppm Cu
- ≥ 200 ppm Cu
- ≥ 300 ppm Cu

**S.E.R.E.M. LTD.**

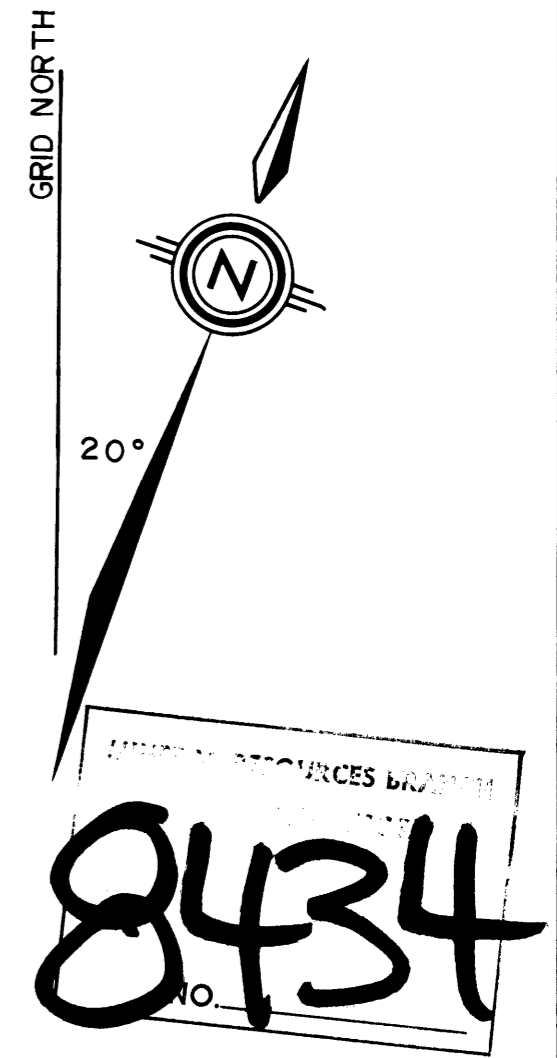
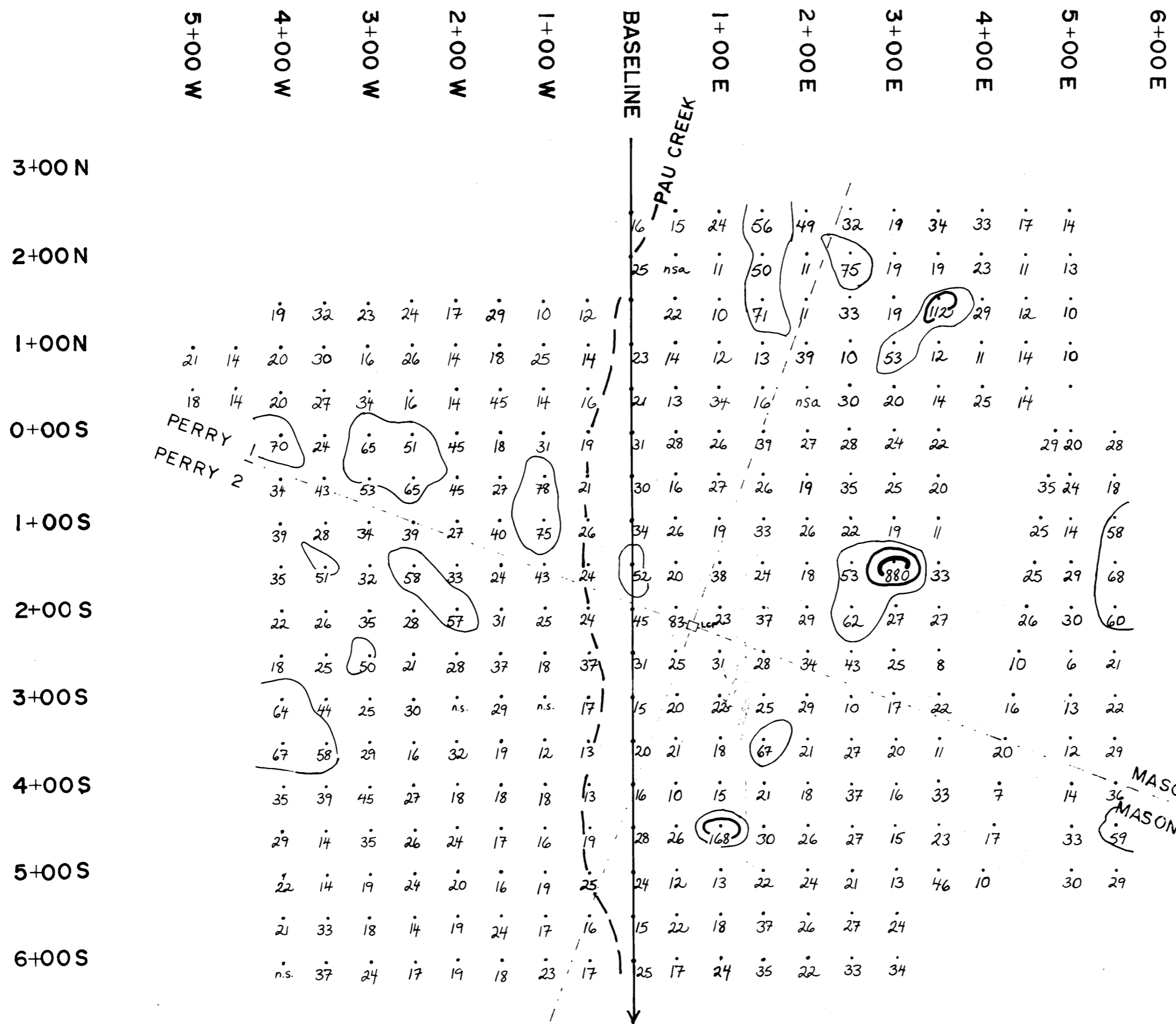
PROJECT TOODOGGONE

TITLE COPPER IN SOIL  
NORTH SOIL GRID  
PERRY MASON CLAIMS

DATE: SEPT 1980	DATA: S.CRAWFORD
N.T.S: 94 E/6 E	DRAWN: S. C.
SCALE: 1: 5000	CHECKED: S.C., M.V.

0 50 100 150 200 metres

FIGURE 6c



LEGEND	
si	soil sample site, ppm Pb
○	≥ 50 ppm Pb
○	≥ 100 ppm Pb
○	≥ 200 ppm Pb
<b>S.E.R.E.M. LTD.</b>	
PROJECT TOODOGGONE	
TITLE LEAD IN SOIL NORTH SOIL GRID PERRY MASON CLAIMS	
DATE: SEPT 1980	DATA: S.CRAWFORD
N.T.S.: 94 E / 6 E	DRAWN: S. C.
SCALE: 1:5000	CHECKED: S.C., M.V.
0 50 100 150 200 metres	
FIGURE 6d	

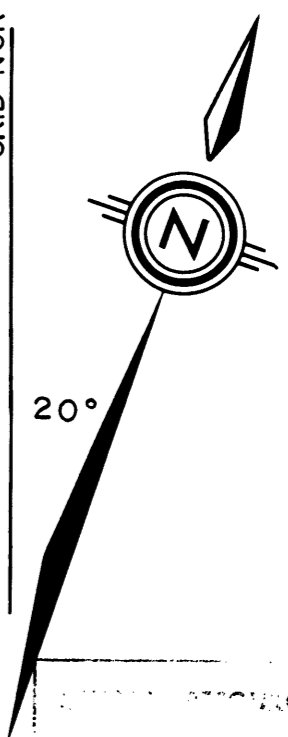
	5+00 W	4+00 W	3+00 W	2+00 W	1+00 W	BASELINE	1+00 E	2+00 E	3+00 E	4+00 E	5+00 E	6+00 E									
3+00 N						39	36	58	140	130	142	54	105	95	60	48					
2+00 N						93	nsa	74	187	45	170	100	75	106	80	82					
1+00 N		48	49	87	58	56	74	64	60	175	24	96	166	123	70	209	96	103	38		
0+00 S	61	23	48	89	40	46	41	37	52	57	46	107	27	51	130	45	240	77	76	54	82
1+00 S	42	38	39	102	84	69	45	85	51	80	105	99	93	85	nsa	93	88	89	43	35	
2+00 S																					
3+00 S																					
4+00 S																					
5+00 S																					
6+00 S																					

PERRY 1  
PERRY 2

PAU CREEK

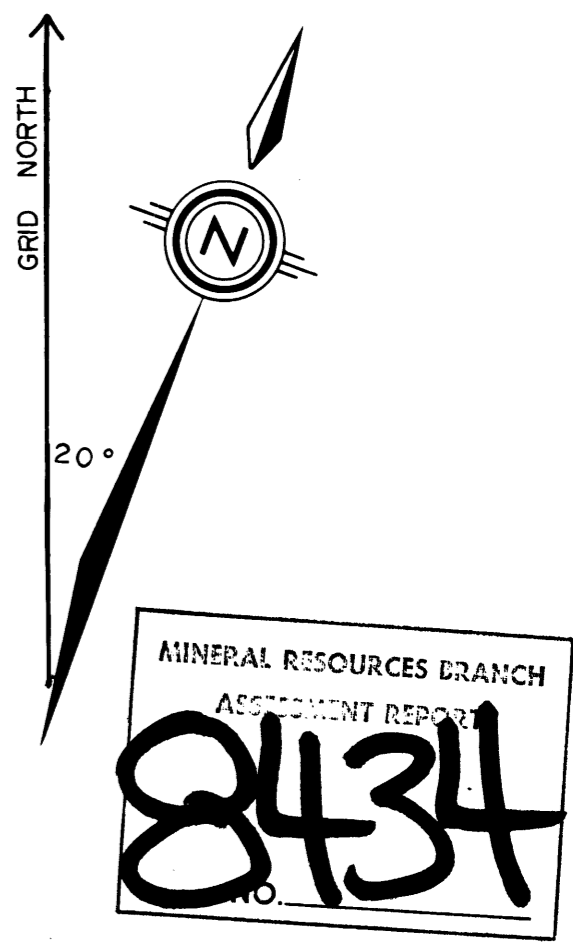
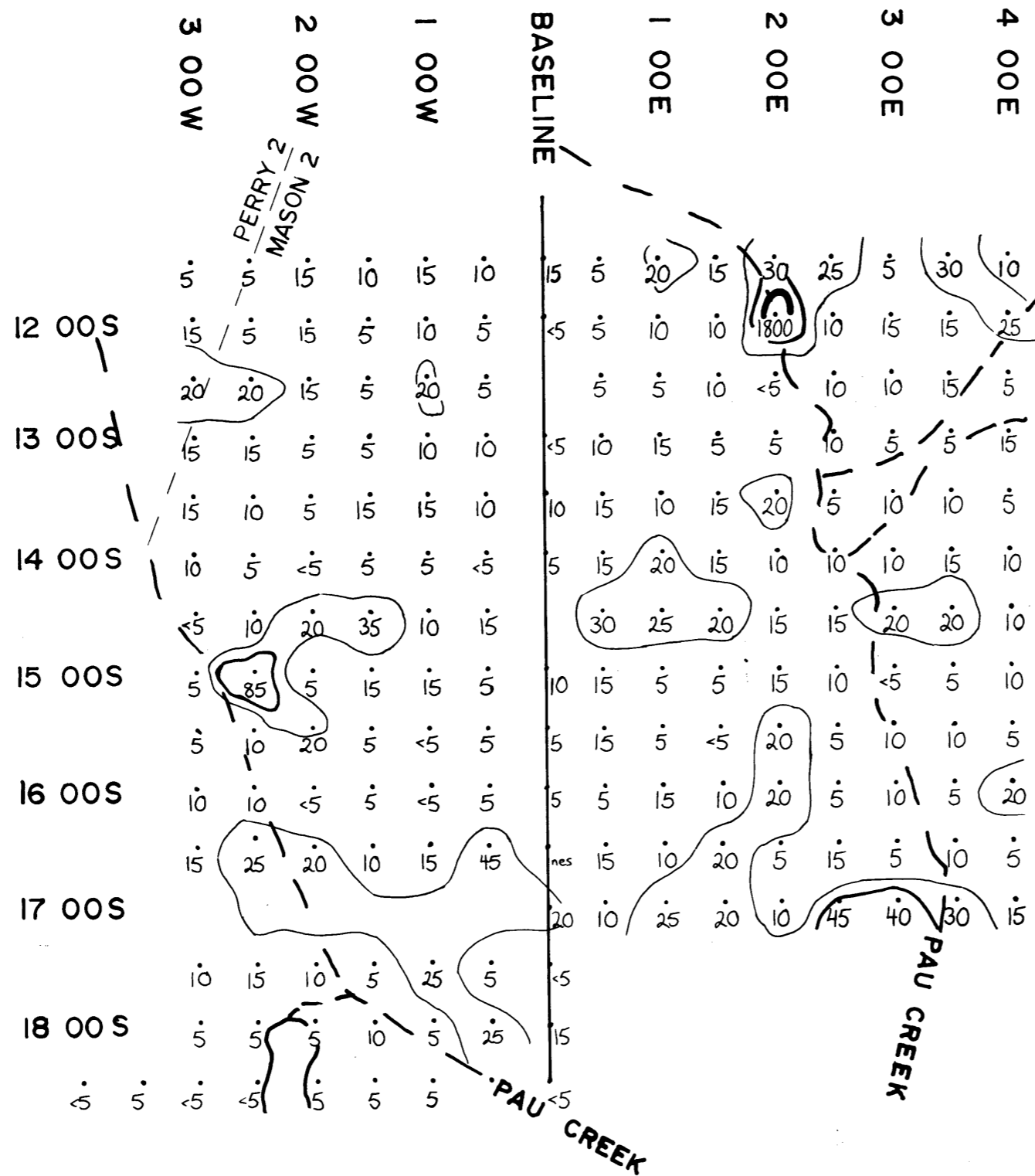
MASON 1  
MASON 2

GRID NORTH



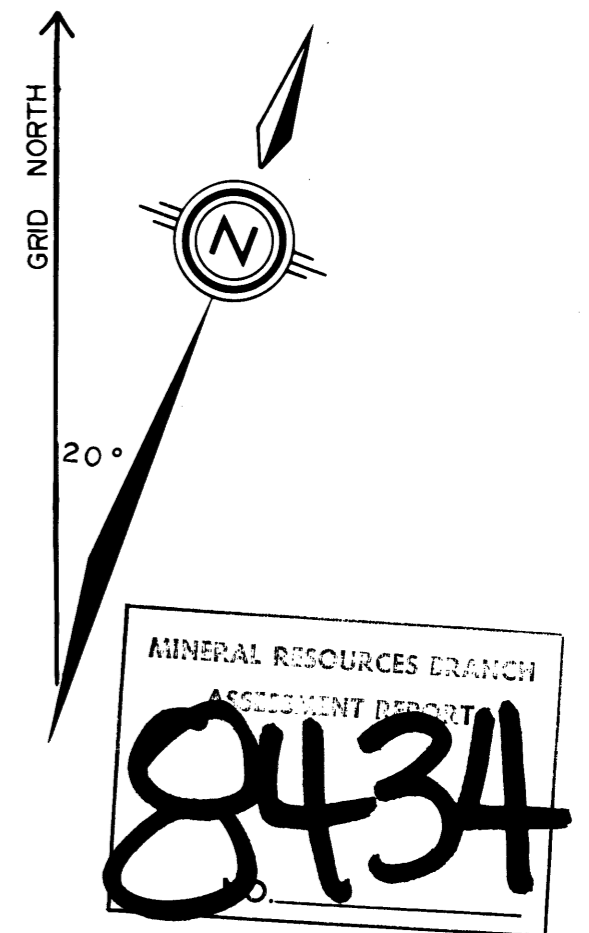
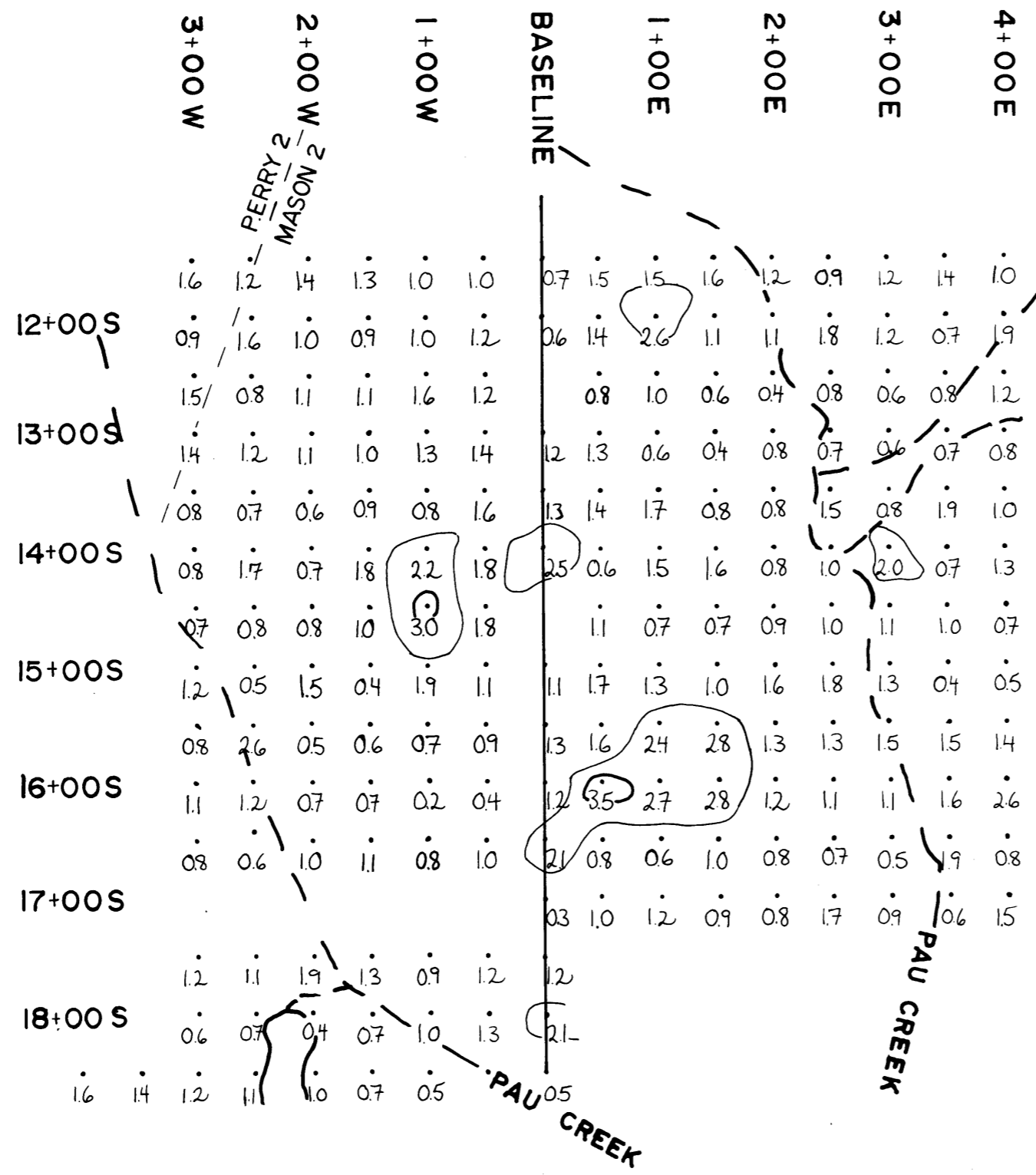
8434

LEGEND	
168	soil sample site, ppm Zn
○	≥ 250 ppm Zn
○	≥ 500 ppm Zn
○	≥ 750 ppm Zn
<b>S.E.R.E.M. LTD.</b>	
PROJECT	TOODOGGONE
TITLE	ZINC IN SOIL NORTH SOIL GRID PERRY MASON CLAIMS
DATE: SEPT 1980	DATA: S. CRAWFORD
N.T.S: 94 E/6 E	DRAWN: S. C.
SCALE: 1: 5000	CHECKED: S.C., M.V.
FIGURE <b>6e</b>	

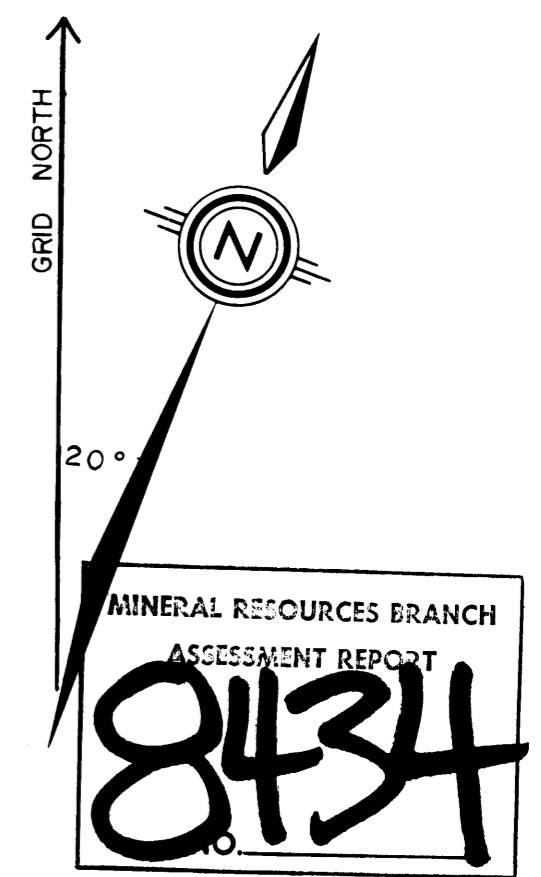
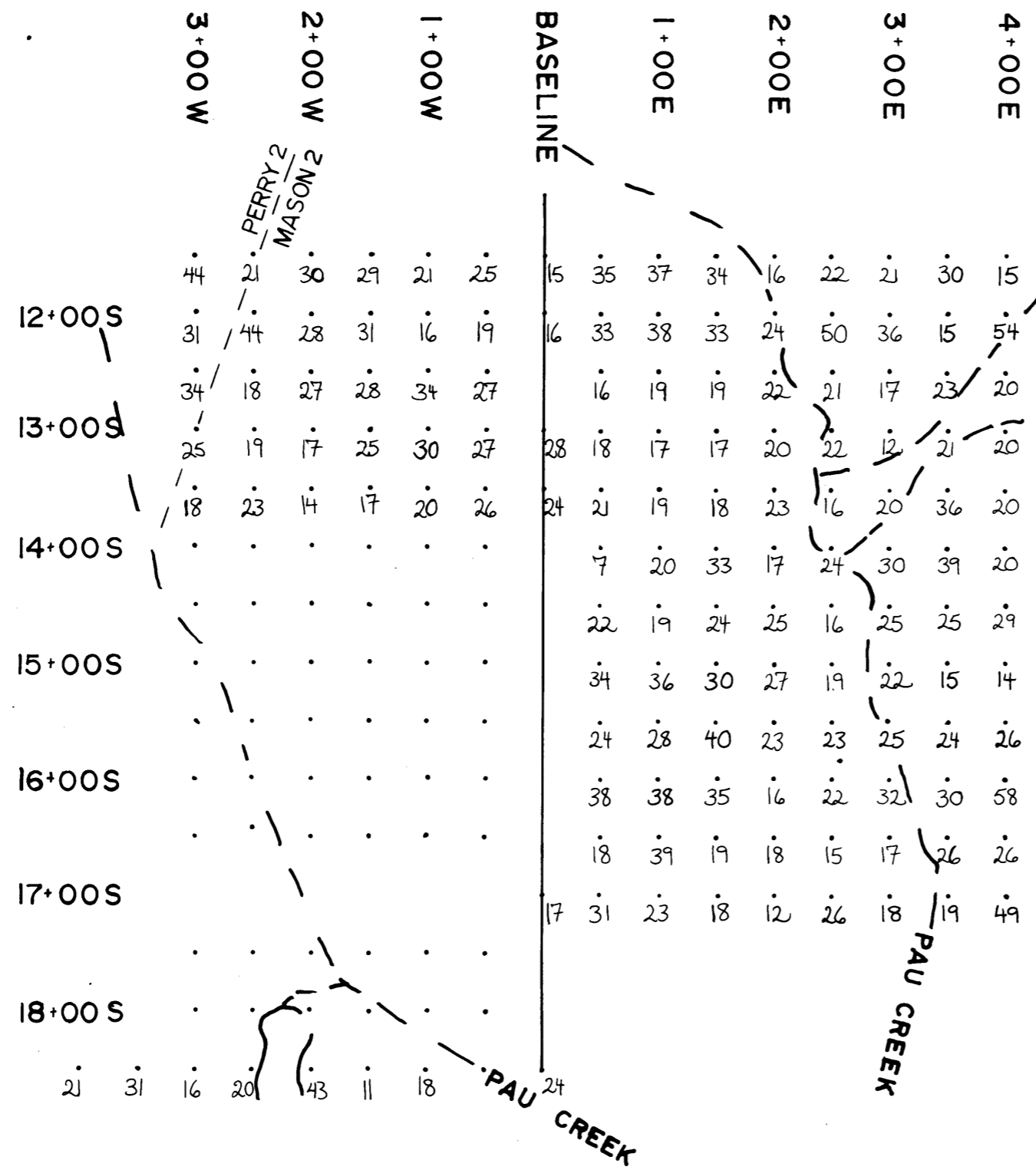


LEGEND	
15	soil sample site
	≥ 20 ppb Au
	≥ 40 ppb Au
	≥ 100 ppb Au
<b>S.E.R.E.M. LTD.</b>	
PROJECT TOODOGGONE	
TITLE GOLD IN SOIL SOUTH SOIL GRID PERRY MASON CLAIMS	
DATE: SEPT 1980	DATA: S. CRAWFORD
N.T.S.: 94 E/6E	DRAWN: S. C.
SCALE: 1:5000	CHECKED: S.C./M.V.
0 50 100 150 200 metres	
FIGURE <b>7a</b>	

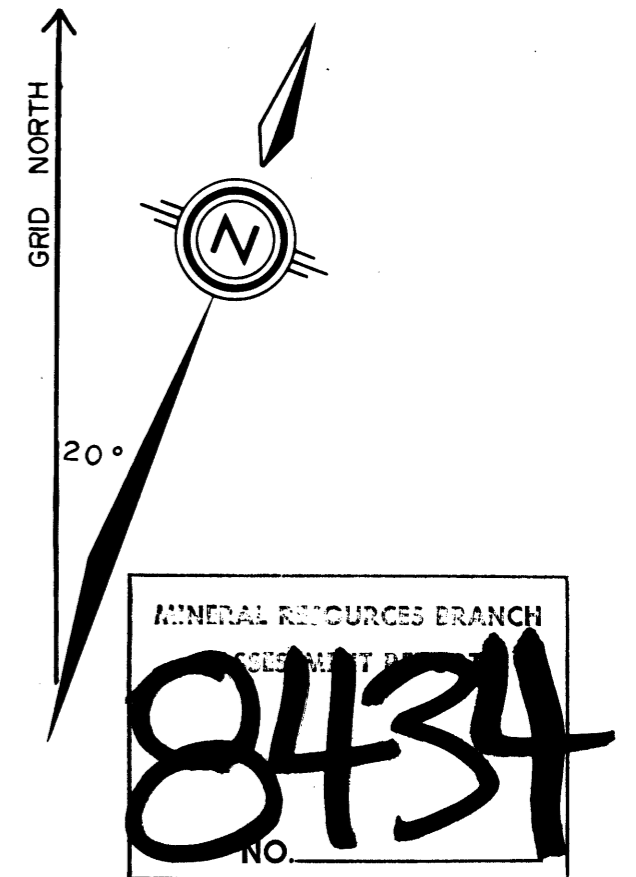
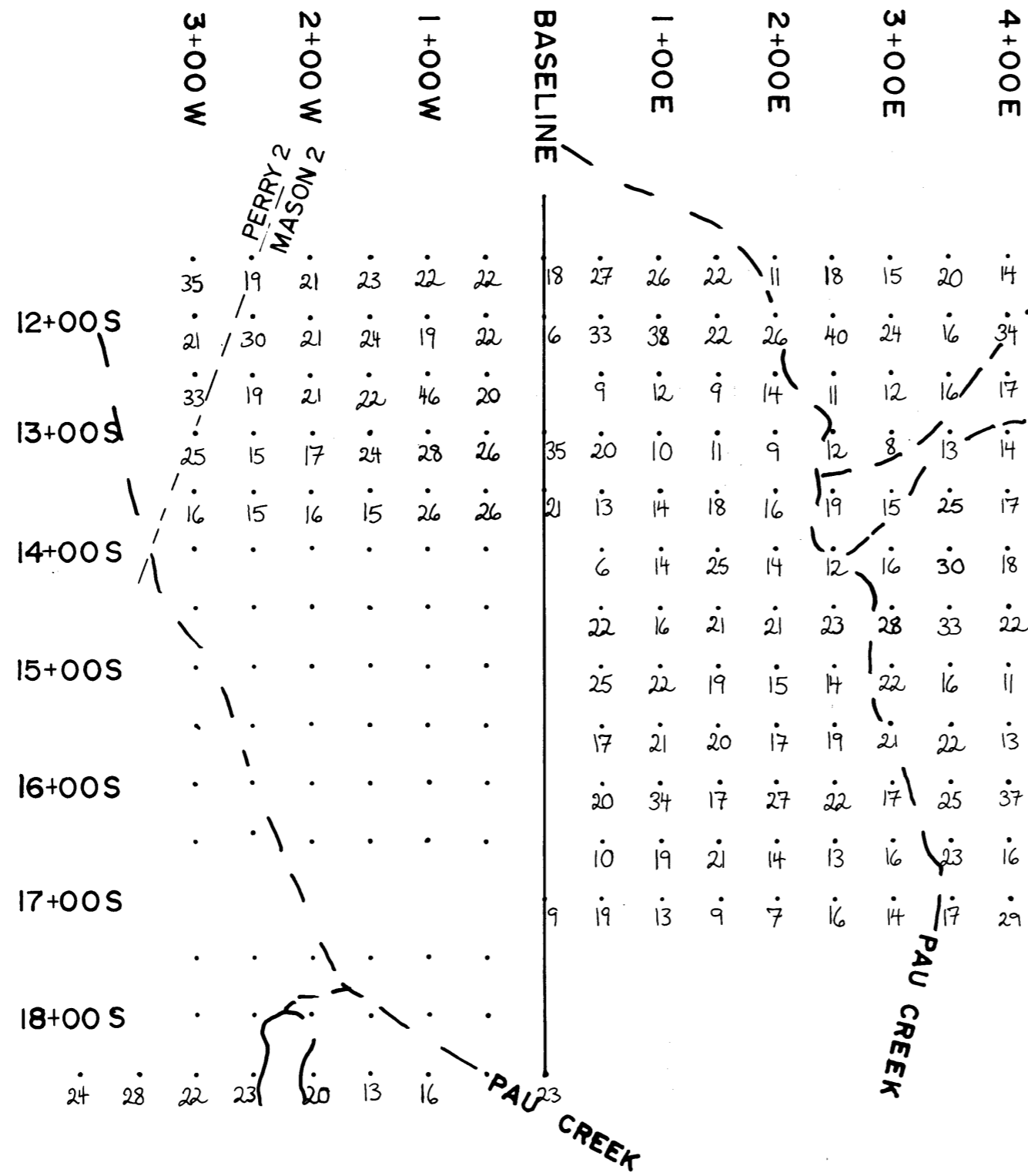




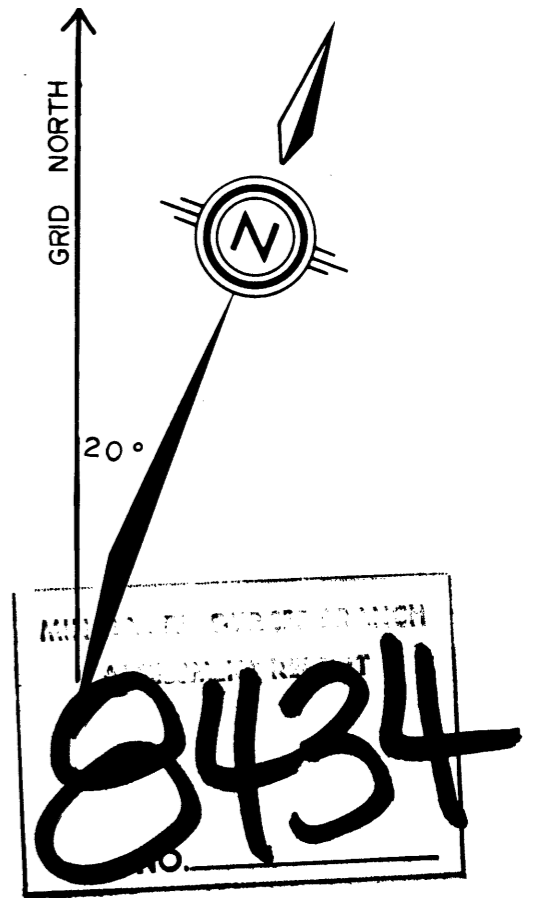
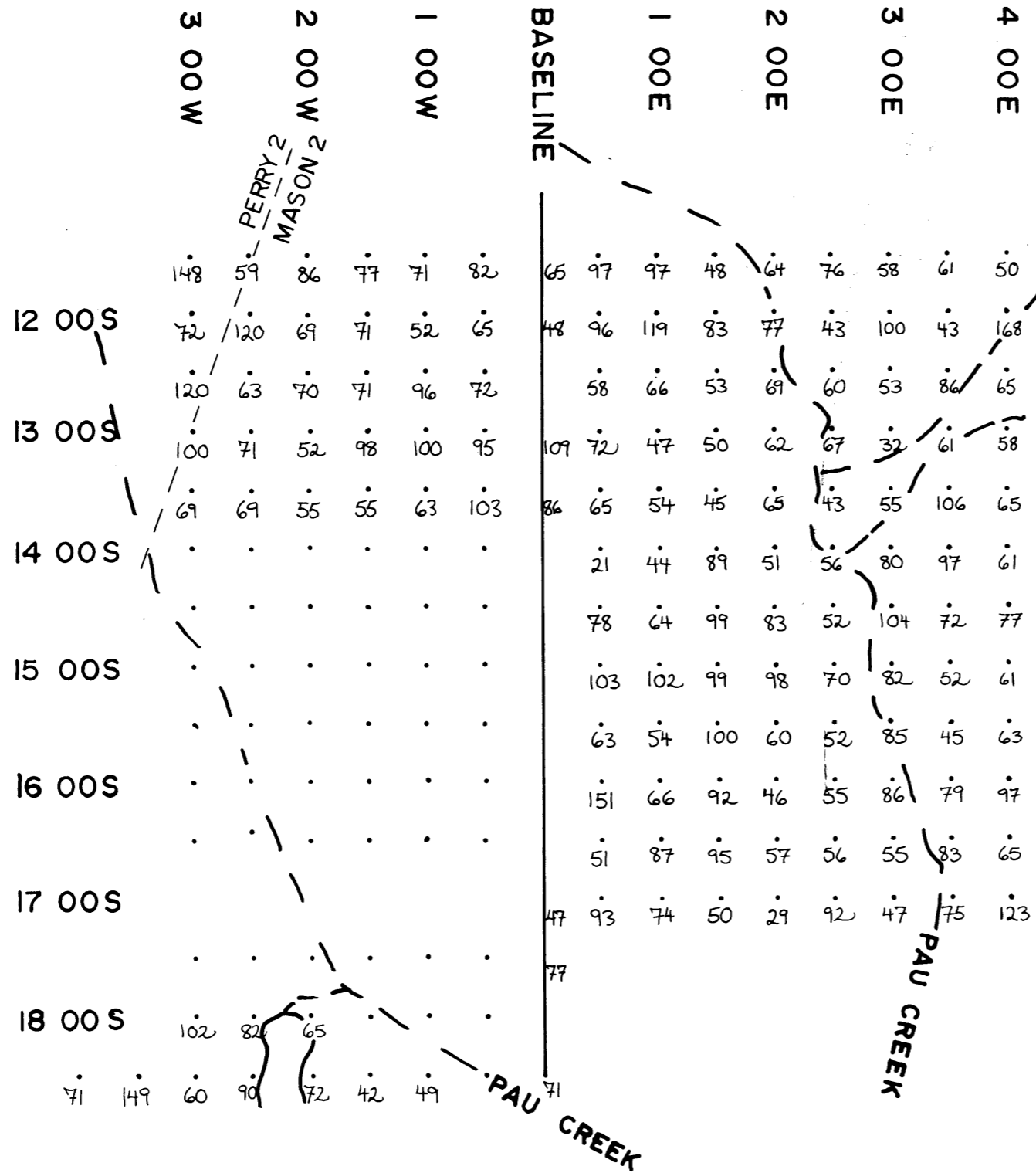
LEGEND	
1.6	soil sample site
○	≥ 2.0 ppm Ag
○	≥ 3.0 ppm Ag
○	≥ 4.0 ppm Ag
<b>S.E.R.E.M. LTD.</b>	
PROJECT TOODOGGONE	
TITLE SILVER IN SOIL SOUTH SOIL GRID PERRY MASON CLAIMS	
DATE: SEPT 1980	DATA: S. CRAWFORD
N.T.S: 94 E/6E	DRAWN: S. C.
SCALE: 1:5000	CHECKED: S.C./M.V.
0 50 100 150 200 metres	
FIGURE <b>7b</b>	



LEGEND	
15	soil sample site
○	≥ 100 ppm Cu
○	≥ 200 ppm Cu
○	≥ 300 ppm Cu
<b>S.E.R.E.M. LTD.</b>	
PROJECT TOODOGGONE	
TITLE COPPER IN SOIL SOUTH SOIL GRID PERRY MASON CLAIMS	
DATE: SEPT 1980	DATA: S. CRAWFORD
N.T.S.: 94 E/6E	DRAWN: S. C.
SCALE: 1:5000	CHECKED: SC./M.V.
0 50 100 150 200 metres	
FIGURE <b>7c</b>	



LEGEND	
•	soil sample site
○	≥ 50 ppm Pb
○	≥ 100 ppm Pb
○	≥ 200 ppm Pb
<b>S.E.R.E.M. LTD.</b>	
PROJECT TOODOGGONE	
TITLE	
LEAD IN SOIL SOUTH SOIL GRID PERRY MASON CLAIMS	
DATE: SEPT 1980	DATA: S. CRAWFORD
N.T.S.: 94 E/6E	DRAWN: S. C.
SCALE: 1:5000	CHECKED: S.C./M.V.
0 50 100 150 200 metres	
FIGURE <b>Fd</b>	



LEGEND	
soil sample site	
○	≥ 250 ppm Zn
○	≥ 500 ppm Zn
○	≥ 750 ppm Zn
<b>S.E.R.E.M. LTD.</b>	
PROJECT	TOODOGGONE
TITLE	ZINC IN SOIL SOUTH SOIL GRID PERRY MASON CLAIMS
DATE: SEPT 1980	DATA: S. CRAWFORD
N.T.S.: 94 E/6E	DRAWN: S. C.
SCALE: 1:5000	CHECKED: S.C./M.V.
FIGURE <b>7e</b>	