

82-#713



EQUITY
SILVER MINES
LIMITED

Assessment Report for the Soil and Till

Geochemistry Survey

on the

SG and T Claims

(Southern Comfort Group)

Omineca Mining Division

NTS 93 L/1

Latitude $54^{\circ} 10'$ N, Longitude $126^{\circ} 15'$ W

Owned by Equity Silver Mines Ltd.

Work by Equity Silver Mines Ltd.

By: R.B. Pease, B.Sc.

1982 October

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

10,727

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INTRODUCTION

(i) Location and Access

The claims are located 39 kilometers from Houston, B.C., along the Equity Silver Mine access road (Figure 1). Access to the claim group was by means of a 4 x 4 vehicle along an old logging road which branches off the Goosly Lake Equity mine road.

(ii) Claim Ownership and Status

All the claims worked on are wholly owned by Equity Silver Mines Ltd. Table 1 lists the claims on which the geochemical surveys were conducted. For the purpose of filing this assessment, forty claims have been grouped and named the Southern Comfort group. Table 2 lists the claims of the Southern Comfort group. All the claims are the 2-post type.

(iii) Geochemical Survey

Between May 26th and July 8th, 920 soil samples were collected. Between August 18th and September 2nd, 73 till samples were collected.

Table 1

<u>Name of Claim(s)</u>	<u>Record Number(s)</u>
Tan 1 - 7	99650 - 99656
SG 3	54776
SG 5	54778
SG 7	54780
SG 9	54782
SG 18 - 24	54787 - 54793
SG 29 - 32	54798 - 54801
SG 34	54803
SG 54	54807
SG 56	54809
T 38	65522
T 46 - 49	65530 - 65533
T 51	65535
T 170 - 173	65618 - 65621

Table 2

<u>Name of Claim(s)</u>	<u>Record Number(s)</u>
TAN 1	99650
SG 7 - 10	54780 - 54783
SG 19	54788
SG 21 - 24	54790 - 54793
T 1 - 12	65485 - 65496
T 17 - 20	65501 - 65504
T 25 - 31	65509 - 65515
T 33	65517
T 35	65519
T 37 - 41	65521 - 65525

LUCKY BEN 2
2794 (5)
(48 by 50)
(4336)

MINERAL RESERVE
OIC 3770 4-12-75
NO STAKING

JOHN 1
3269(9)
(48 by 50)

JOHN 2
3270(9)
(48 by 50)

SAM 1
3365(II)

SAM
2459 (2)

GLS
2330 (II)

RIN
2331 (II)

239(2)

DIANE
249(3)

ROK
2325 (II)

TRI
2329 (II)

LOYD 238(2)

TOW
2324 (II)

ALSO
BUC
3050(8)

MIN FR.
2334 (II)

LAN
2326 (II)

FOX
P.W.

ALSO
XL-1
872(II) THE OTHER

MINING
L.5056-67
LEASE
L.5087-90
NO. 1

MINING
LEASE
NO. 6
LOT
1439

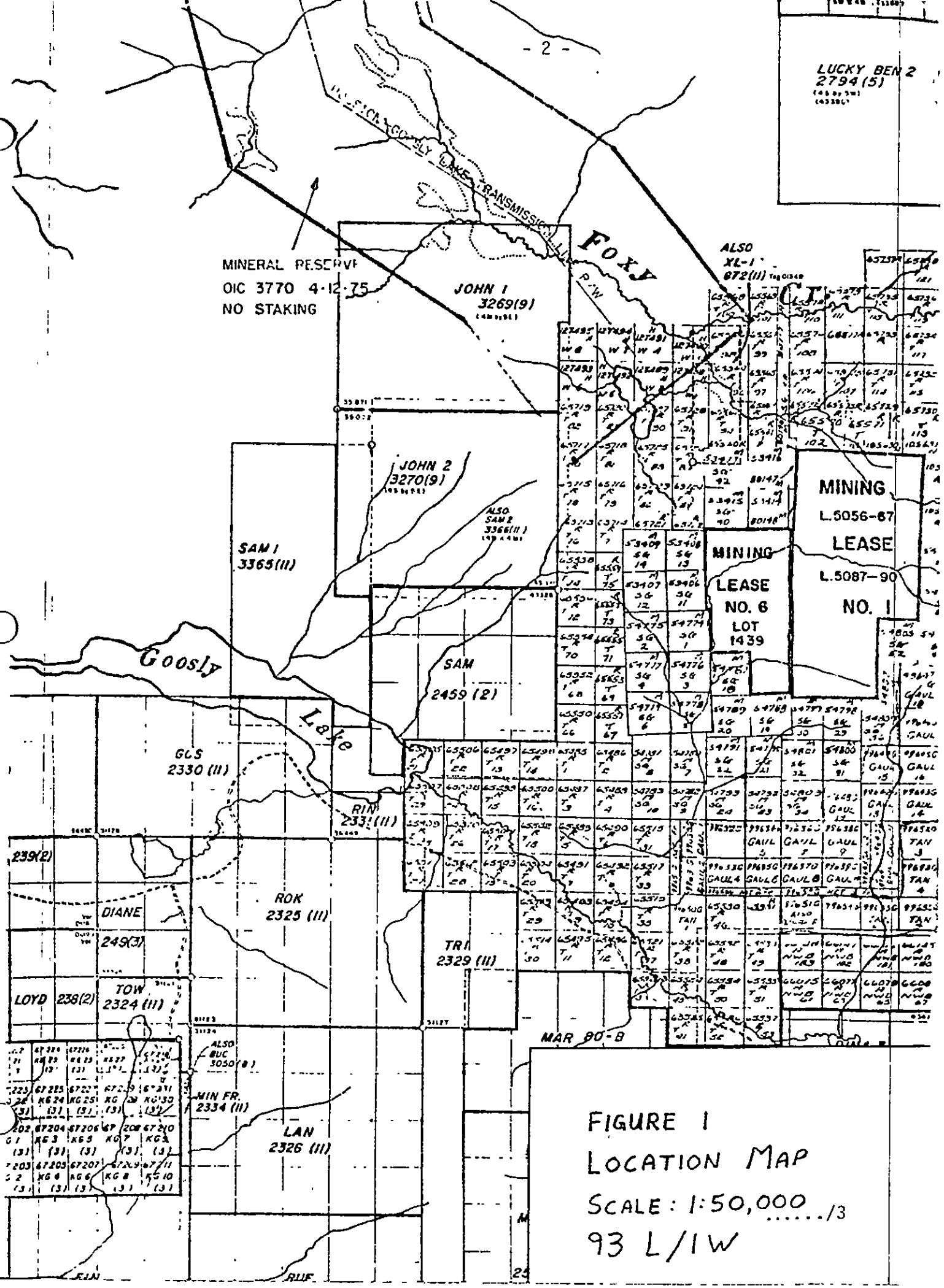
MAR 90-B

FIGURE 1
LOCATION MAP

SCALE: 1:50,000.../3

93 L/1W

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67306	67251	67252	67253	67254	67255
67307	67252	67253	67254	67255	67256
67308	67253	67254	67255	67256	67257
67309	67254	67255	67256	67257	67258
67310	67255	67256	67257	67258	67259
67311	67256	67257	67258	67259	67260



GEOCHEMISTRY DISCUSSION

(i) Sampling Procedure

Soil Samples were collected from the reddish-brown B horizon, where available, at depths of 15 to 40 centimetres using a mattock. A total of 920 soil samples were collected every 50 metres on east-west grid lines located either 100 or 200 metres apart. Lines were controlled by compass and hip-chain. The portion of the survey conducted on the Gaul claims is not included in this report.

Till samples were collected from light brown C horizon, at depths from 0.5 to 4.0 metres. The till samples were collected by driving a hollow tube sample bit vertically into the ground with a portable gasoline-powered Atlas-Cobra drill. The sample tube retrieves a 15 cm long by 1.5 cm diameter core of till.

The maximum sample depth was 4.0 metres. Attempts were made to drill as deep as possible. If the first attempt at a station was considered unsatisfactory, another try was made. Therefore, in some instances, more than one sample was collected per station. Drilling problems were caused by the bit's inability to penetrate boulders in the till. Most of the samples collected from depths of 3.0 to 4.0 metres are believed to be on or close to the bedrock surface.

A total of 73 till samples were collected every 100 metres on east-west grid lines located 100 metres apart. The same stations as the soil survey were used, however only one section of the soil grid had till samples drilled.

Notes were taken for each soil and till sample regarding line and station; soil composition and colour; stream, road and claim post locations; sample depth; percentage residual and ground slope. Samples were collected in brown kraft paper bags and sent to the Placer Development Ltd. Geochemistry Laboratory in Vancouver for analysis.

(ii) Analytical Procedure

Both the soil and till samples were dried in a hot air sample drying unit at 50°C and then the -80 mesh fraction was sieved out for analyses. The soil samples were analyzed for Cu, Pb, Zn, Ag, and Hg. The till samples were analyzed for Cu, Pb, Zn, Ag, As, and Sb. Table 3 summarizes the analytical procedure used for each element.

Table 3

Element	Units	Wt. (grams)	Attack Used	Digestion Time	Detection Range	Method
Cu	ppm	0.5	Concentrated HClO ₄ /HNO ₃	4 hrs	2-4000	Atomic Absorption
Pb	ppm	0.5	Concentrated HClO ₄ /HNO ₃	4 hrs	2-3000	Atomic Absorption Background Correction
Zn	ppm	0.5	Concentrated HClO ₄ /HNO ₃	4 hrs	2-3000	Atomic Absorption
Ag	ppm	0.5	Concentrated HClO ₄ /HNO ₃	4 hrs	0.2-20	Atomic Absorption Background Correction
As	ppm	0.5	Concentrated HClO ₄ /HNO ₃	4 hrs	2-1000	Atomic Absorption Hydride Generator
Sb	ppm	0.5	Concentrated HClO ₄ /HNO ₃	4 hrs	2-1000	Atomic Absorption Hydride Generator
Hg	ppb	0.5	Dilute HNO ₃	2 hrs	5-2000	Atomic Absorption Cold Vapour Generator

(iii) Evaluation of Results

a) Soil - The soil geochemistry results are plotted on separate plan maps at a scale of 1:5000, see Figures 2 - 6 inclusive in the pocket at the back of the report. Several anomalous soil samples were determined in copper, zinc and silver. Very few anomalous results were found in lead or mercury. The anomalous areas are in the north-western and central portions of the soil sample grid.

b) Till - The till geochemistry results are plotted on separate plan maps at a scale of 1:5000, see Figures 7 - 12 inclusive in the pocket at the back of the report. The till sampling was intended to be an orientation survey to determine; one, if the drilling technique would be suitable in this area and, two, to test the central soil anomaly at depth. Several samples were anomalous in copper and silver, however few in lead and zinc, and none in arsenic and antimony. A north-easterly trending zone of anomalous copper values was outlined in the western portion of the till survey grid.

CONCLUSIONS AND RECOMMENDATIONS

The soil and till geochemistry surveys have outlined areas that warrant sub-surface exploration. The area surveyed is south of the two known Equity orebodies. Outcrop is poor in the area, but it is believed geology similar to the host rocks of the orebodies underlie the anomalous zones. It would appear till sampling is a useful technique in exploring glaciated, till-covered terrain.

STATEMENT OF EXPENDITURES

1.	<u>Salaries, Compensation, Supervision</u>		
	a) <u>Soil Geochemistry</u>		
	R. Pease	May 26, 27	2 @ \$136.70 \$273.40
	D. Hanson	May 26, 27, 31	3 @ \$134.25 402.75
	J. McClintock	June 3, 14, 15, 17, 22, 23, 24	7 @ \$100.00 700.00
	K. Donner	June 4, 7, 10, 15, 16, 21, 22, 23, 24, 25, 30, July 7, 8	13 @ \$ 92.50 1,202.50
	P. Bryan	May 26, 27, 28, June 1, 3, 4, 9, 10, 28, 29, July 5, 7	12 @ \$ 92.50 1,110.00
	A. Smith	May 26, 27, 28, 31, June 1, 7, 9, 14, 16, 17, 21, 25, 28, 29, 30, July 5, 8	17 @ \$ 92.50 1,572.50
	b) <u>Till Geochemistry</u>		
	R. Pease	Aug. 18, 24, 25, 26, 27, Sept. 2	6 @ \$136.70 820.20
	D. Hanson	Aug. 18, 24, 25, 26, 31, Sept. 2	6 @ \$134.25 805.50
	J. McClintock	Aug. 27, 31, Sept. 2	3 @ \$100.00 300.00
	K. Donner	Aug. 18, 24, 25, 26, 27, 31, Sept. 2	7 @ \$ 92.50 647.50
	P. Bryan	Aug. 24, 25, 26, 27, 31, Sept. 2	6 @ \$ 92.50 555.00
			Sub Total \$8,389.35
2.	<u>Transportation</u>		
	3/4 ton Chev 4 x 4 - 34 days at \$40.00/day		\$1,360.00
3.	<u>Analysis of Samples</u>		
	a) Soil samples - 920 @ \$8.30		\$7,636.00
	b) Till Samples - 73 @ \$8.60		\$ 627.80
			Sub Total \$8,263.80
4.	<u>Plotting and Drafting</u>		
	15 days @ \$200.00/day		\$3,000.00
5.	<u>Report Preparation</u>		
	15 days @ \$250.00/day		\$3,750.00

Summary of Expenditures

1. Salaries	\$8,389.35
2. Transportation	1,360.00
3. Analysis of Samples	8,263.80
4. Plotting & Drafting	3,000.00
5. Report Preparation	<u>3,750.00</u>

TOTAL EXPENDITURES

\$24,763.15

AUTHOR'S QUALIFICATIONS

I graduated from the University of Waterloo in the spring of 1981 with an Honours Bachelor of Science degree in Earth Sciences. As a student, I spent some 20 months employed in the mineral exploration field. After graduation I was employed as an exploration geologist with Duval International Corporation, Vancouver. Since February of 1982 I have been employed as an exploration geologist with Equity Silver Mines Ltd., Houston, British Columbia.



Robert B. Pease, B.Sc.

RBP:cab

STATEMENT OF EXPENDITURES

to form part of

ASSESSMENT REPORT FOR THE SOIL AND

TILL GEOCHEMISTRY SURVEY

on the

SG and T Group Claims

Omineca Mining Division

NTS 93 L/1

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By: R. B. Pease, B.Sc.
1982 September

STATEMENT OF EXPENDITURES

1. Salaries, Compensation, Supervison

A. Soil Geochemistry

R. Pease	May 26, 27	2 @	136.70	273.40
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K. Donner	June 4, 7, 10, 15, 16, 21, 22, 23, 24, 25, 30, July 7, 8,	13 @	92.50	1,202.50
P. Bryan	May 26, 27, 28, June 1, 3, 4, 9, 10, 28, 29, July 5, 7	12 @	92.50	1,110.00
A. Smith	May 26, 27, 28, 31 June 1, 7, 9, 14, 16, 17, 21, 25, 28, 29, 30 July 5, 8,	17 @	92.50	1,572.50

B. Till Geochemistry

R. Pease	Aug 18, 24, 25, 26, 27, Sept 2	6 @	136.70	820.20
D. Hanson	Aug 18, 24, 25, 26, 31 Sept 2	6 @	134.25	805.50
J. McClintock	Aug 27, 31, Sept 2	3 @	100.00	300.00
K. Donner	Aug 18, 24, 25, 26, 27 31, Sept 2	7 @	92.50	647.50
P. Bryan	Aug 24, 25, 26, 27, 31 Sept 2	6 @	92.50	<u>555.00</u>

Sub Total 8,389.35

2. Transportation

3/4 ton Chev 4 x 4 - 34 days at 40.00/day 1,360.00

3. Analysis of Samples

A. Soil samples - 920 @ 8.30 7,636.00

B. Till samples - 73 @ 8.60 627.80

Sub Total 8,263.80

- 4. Plotting and Drafting
15 days @ 200.00/day 3,000.00

- 5. Report Preparation
15 days @ 250.00/day 3,750.00

Summary of Expenditures

- 1. Salaries 8,389.35
- 2. Transportation 1,360.00
- 3. Analysis of Samples 8,263.80
- 4. Plotting and Drafting 3,000.00
- 5. Report Preparation 3,750.00

TOTAL EXPENDITURES \$ 24,763.15



R. B. Pease, B. Sc.



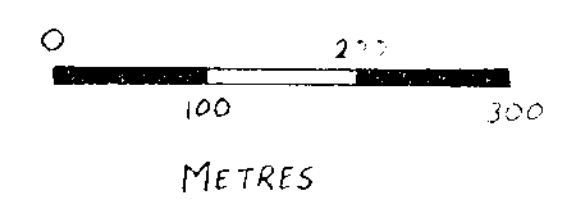
6007000 N



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**GEOLOGICAL BRANCH
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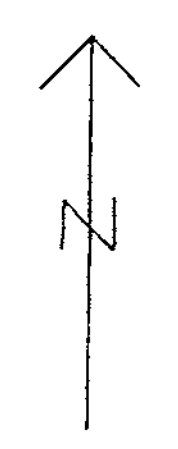


6003000 N

DRAWN FJB	SCALE 1:5000	EQUITY SILVER MINES LTD.	FIGURE 2
TRACED	DATE AUG' 82	SOUTHERN COMFORT GRID	Copper in Soil (ppm)
APPROVED Rp	REVISED	SOIL SAMPLE LOCATIONS	FILE REF NO

680000 E (UTM Coordinates)

676000 E



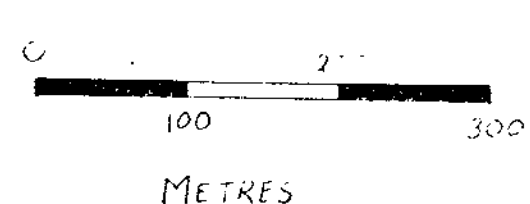
6007000 N



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997	998	999	1000

GEOLOGICAL BRANCH ASSESSMENT REPORT

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6003000 N

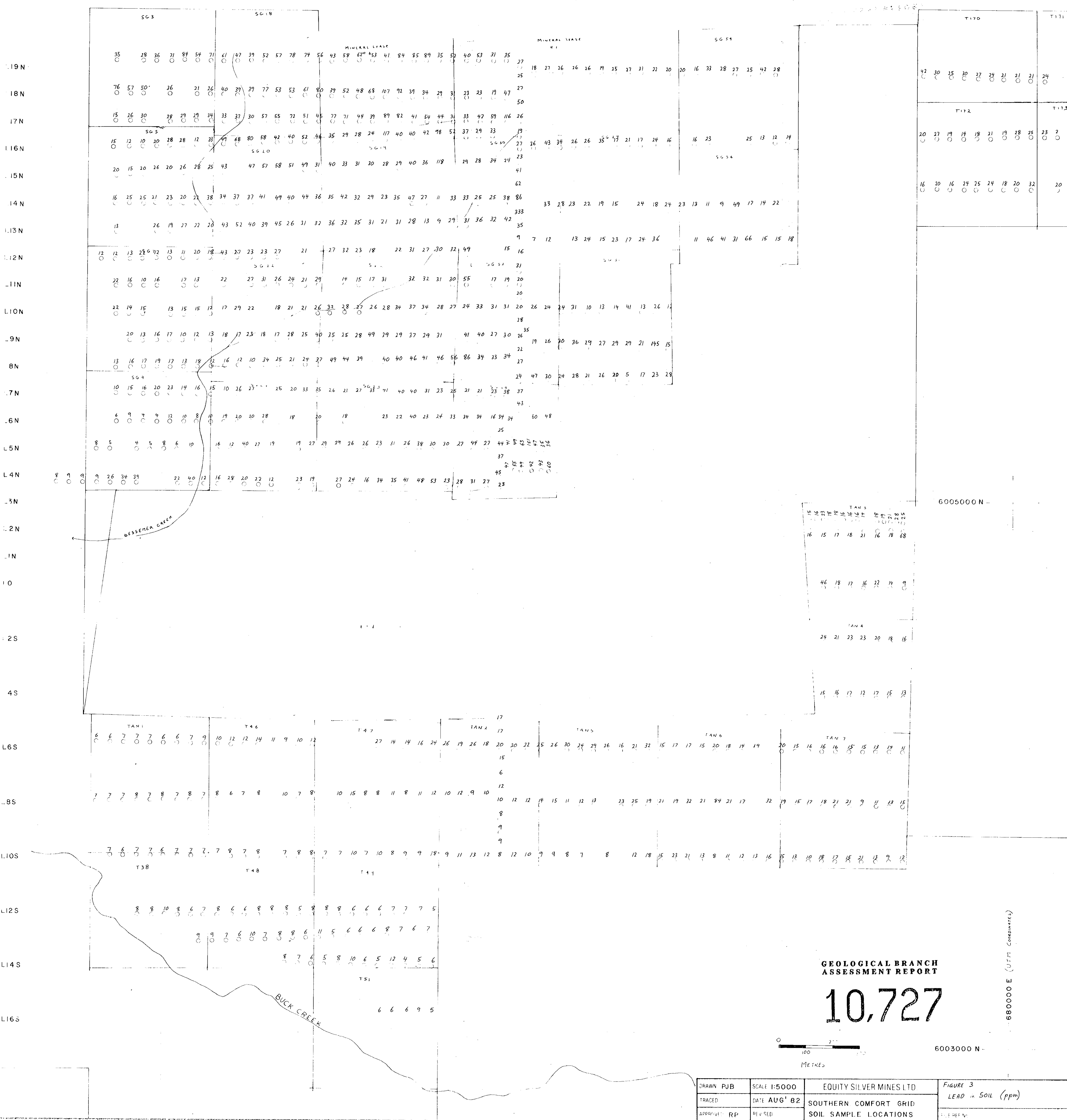
DRAWN PJB	SCALE 1:5000	EQUITY SILVER MINES LTD	FIGURE 4
TRACED	DATE AUG '82	SOUTHERN COMFORT GRID	MERCURY in SOIL (ppb)
APPROVED RP	REVISED	SOIL SAMPLE LOCATIONS	FILE REF.:

675000 E

800000 E



6007000 N



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6003000 N

DRAWN: PJB	SCALE: 1:5000	EQUITY SILVER MINES LTD	FIGURE 3
TRACED:	DATE: AUG '82	SOUTHERN COMFORT GRID	LEAD IN SOIL (ppm)
APPROVED: RP	REVISED:	SOIL SAMPLE LOCATIONS	FILE REF: N

680000 E (UTM Coordinates)

-675000 E

75911



6007000 N

19N
18N
17N
16N
15N
14N
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12N
11N
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9N
8N
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5N
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3N
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10
12S
14S
L6S
L8S
L10S
L12S
L14S
L16S



6005000 N

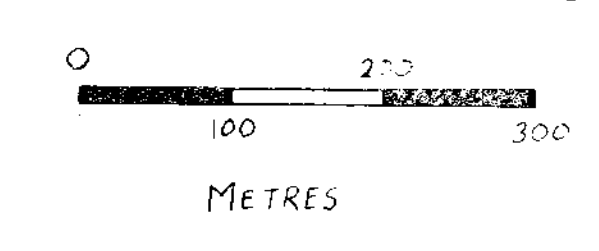
6003000 N

676000 E

680000 E (UTM Coordinates)

GEOLOGICAL BRANCH
ASSESSMENT REPORT

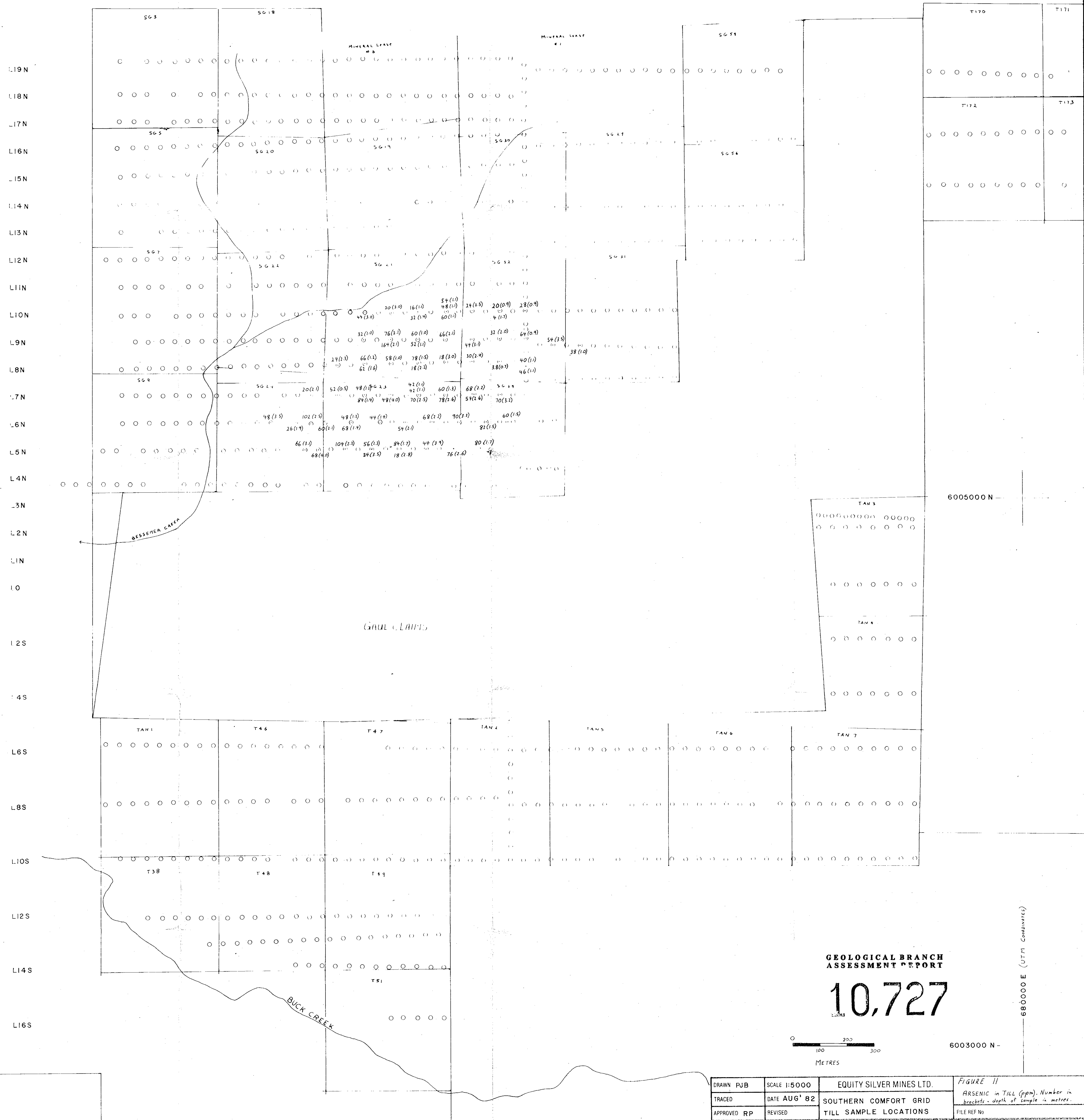
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DRAWN PJB	SCALE 1:5000	EQUITY SILVER MINES LTD	FIGURE 12 ANTIMONY in Till (ppm). Number in brackets - depth of sample in metres.
TRACED	DATE AUG '82	SOUTHERN COMFORT GRID	
APPROVED RP	REVISED	TILL SAMPLE LOCATIONS	

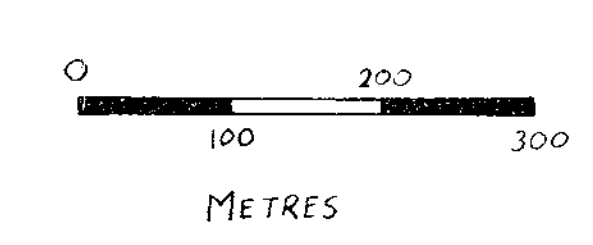


6007000 N



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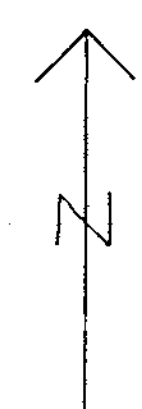


6003000 N

DRAWN PJB	SCALE 1:5000	EQUITY SILVER MINES LTD.	FIGURE 11 ARSENIC in TILL (ppm). Number in brackets - depth of sample in metres. FILE REF No
TRACED	DATE AUG '82	SOUTHERN COMFORT GRID	
APPROVED RP	REVISED	TILL SAMPLE LOCATIONS	

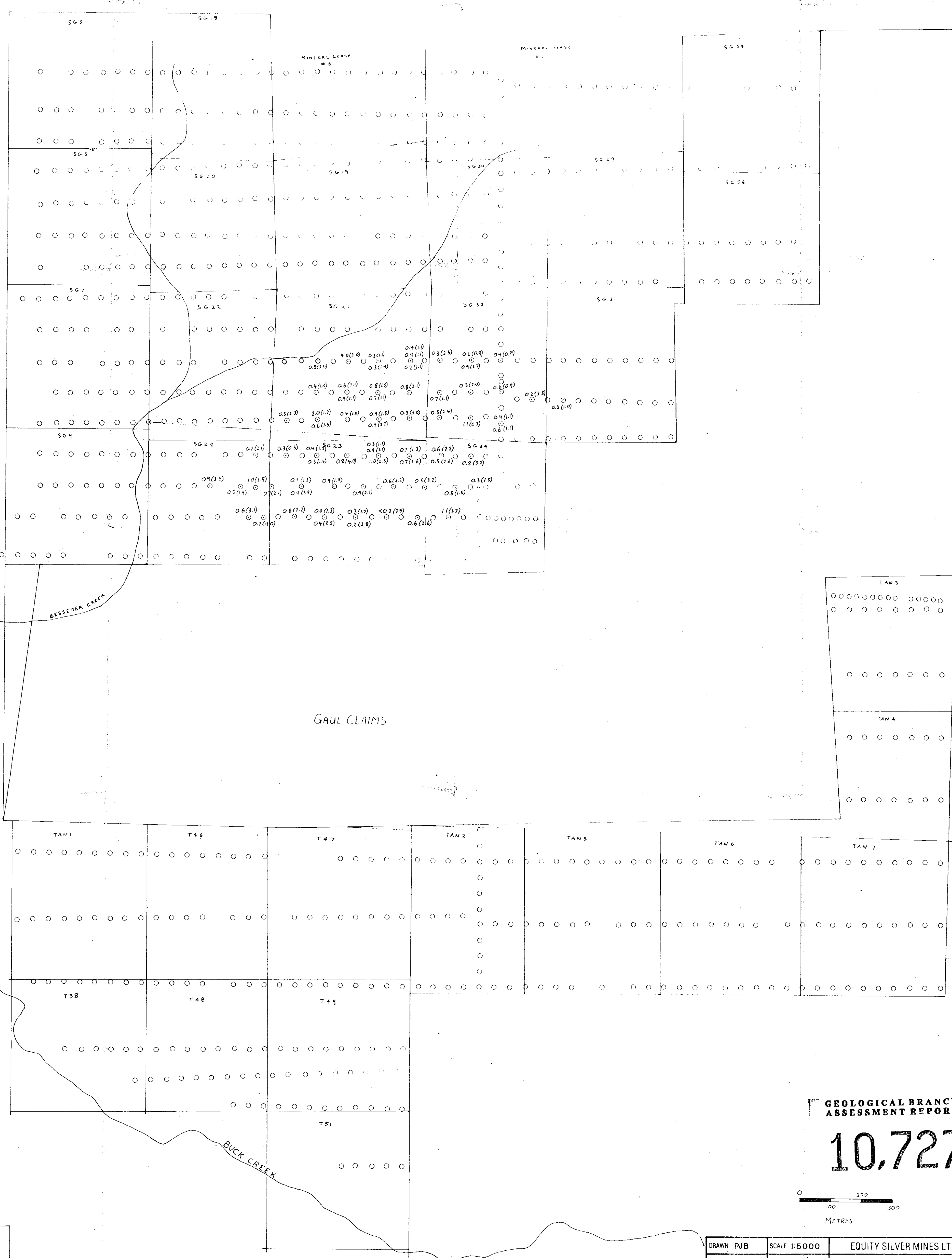
680000 E (UTM COORDINATES)

676000 E



6007000 N

L19N
L18N
L17N
L16N
L15N
L14N
L13N
L12N
L11N
L10N
L9N
L8N
L7N
L6N
L5N
L4N
L3N
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L12S
L14S
L16S



6005000 N

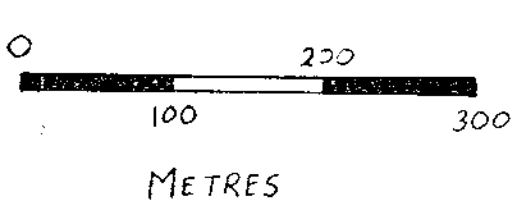
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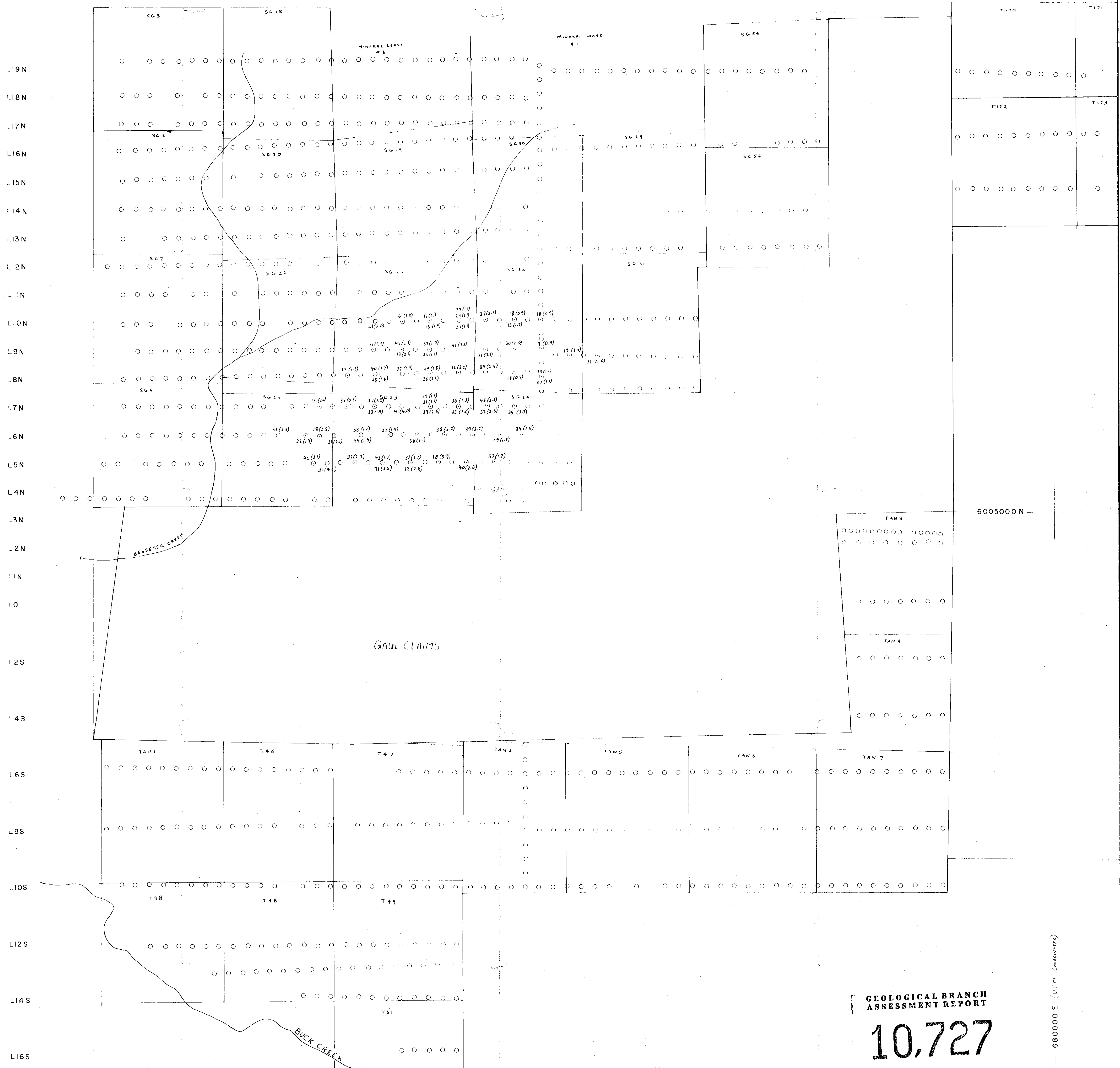
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DRAWN PJB	SCALE 1:5000	EQUITY SILVER MINES LTD.	FIGURE 10
TRACED	DATE AUG 82	SOUTHERN COMFORT GRID	SILVER in Till (ppm) Number in brackets - depth of sample in metres.
APPROVED RP	REVISED	TILL SAMPLE LOCATIONS	FILE REF NO



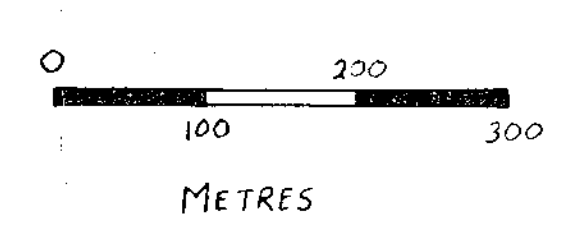
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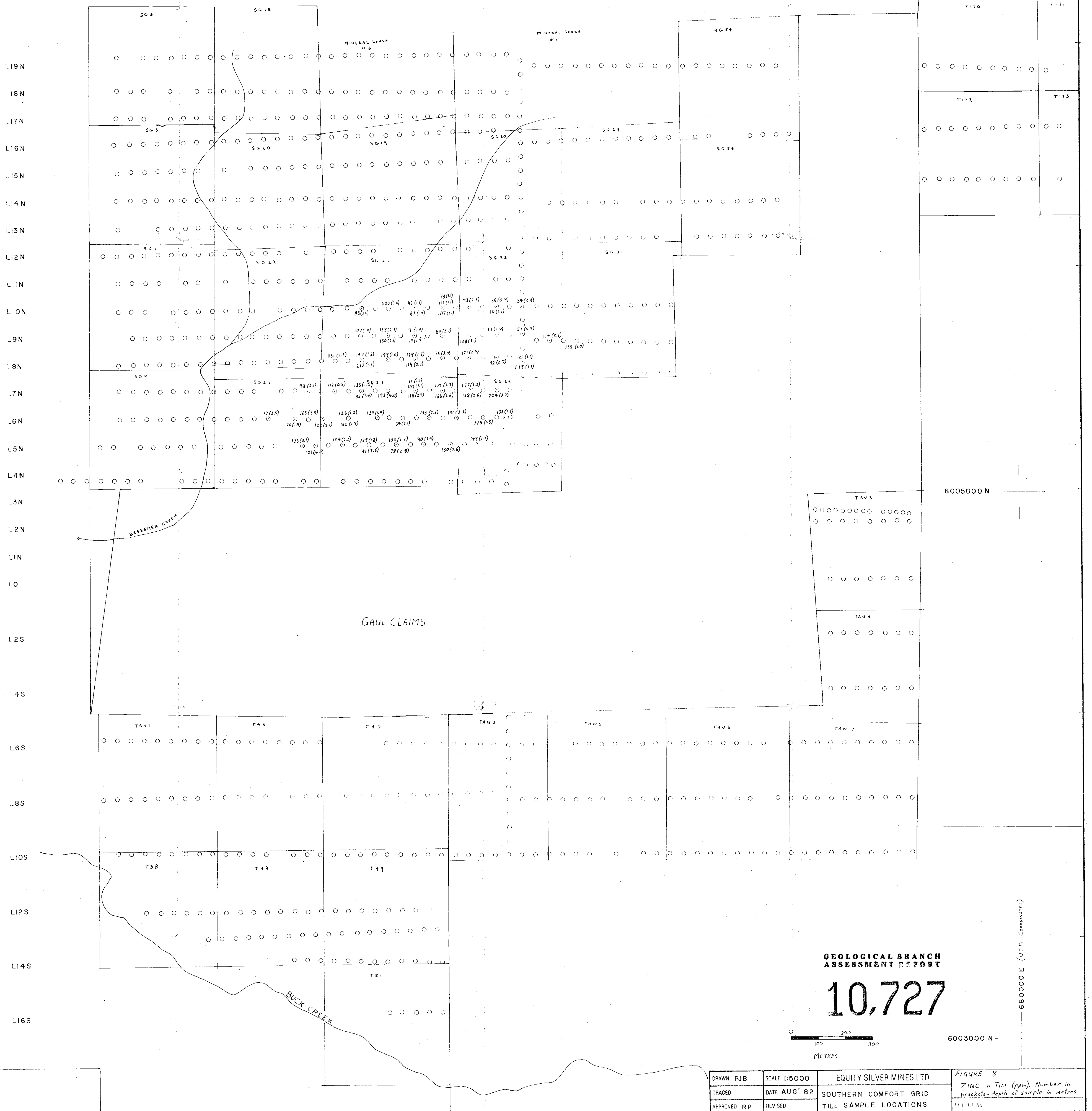
DRAWN PJB	SCALE 1:5000	EQUITY SILVER MINES LTD.	FIGURE 9 LEAD in Till (ppm): Number in brackets - depth of sample in metres. FILE REF NO:
TRACED	DATE AUG '82	SOUTHERN COMFORT GRID	
APPROVED RP	REVISED	TILL SAMPLE LOCATIONS	

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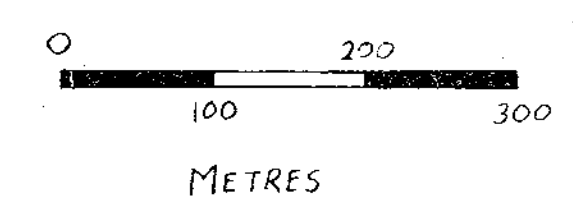


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6003000 N

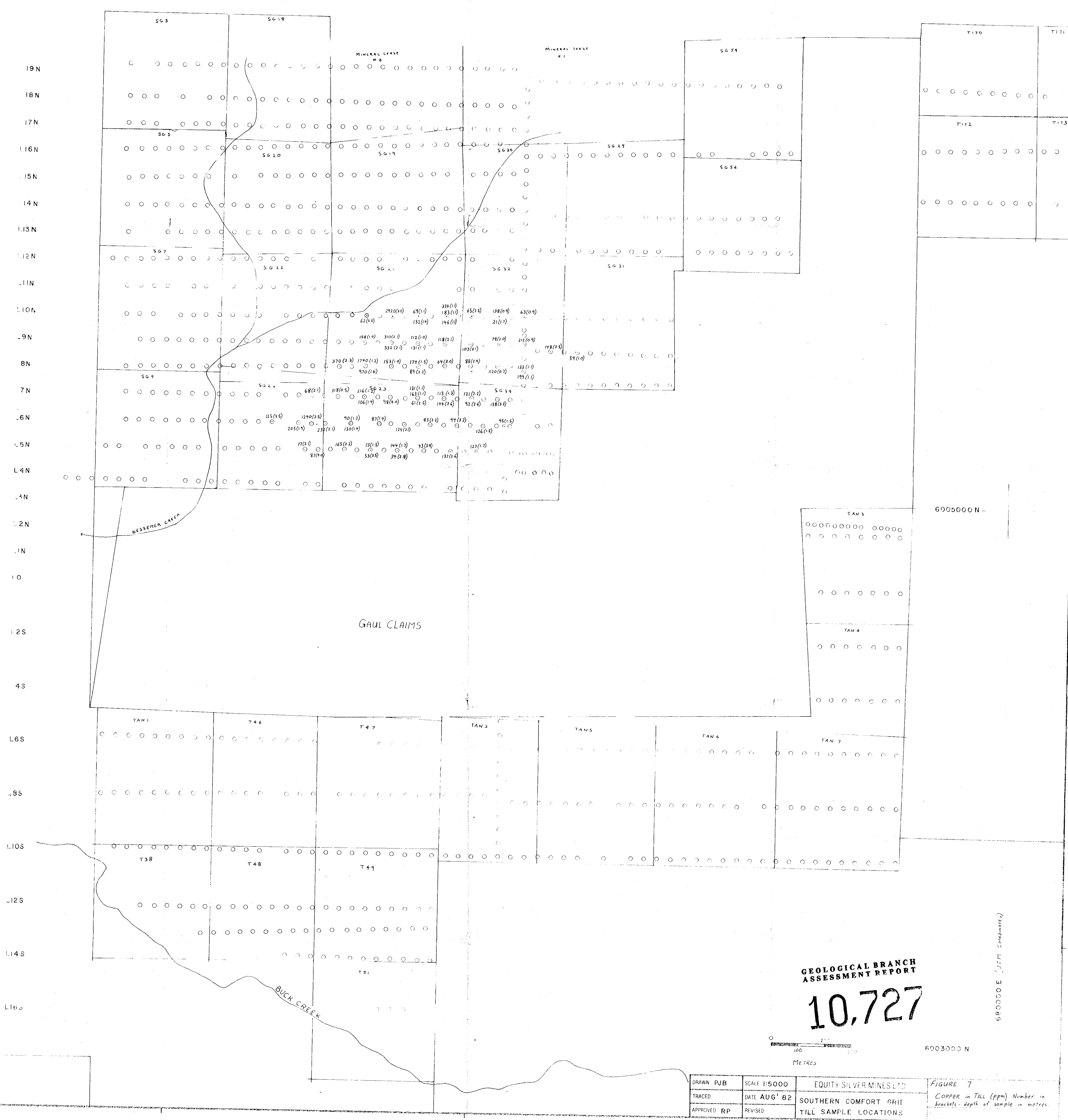
DRAWN PJB	SCALE 1:5000	EQUITY SILVER MINES LTD.	FIGURE 8
TRACED	DATE AUG '82	SOUTHERN COMFORT GRID	ZINC in Till (ppm). Number in brackets - depth of sample in metres.
APPROVED RP	REVISED	TILL SAMPLE LOCATIONS	FILE REF NO.

680000 E (UTM Coordinates)

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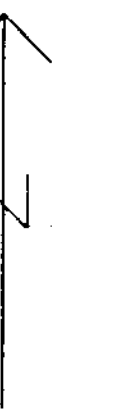
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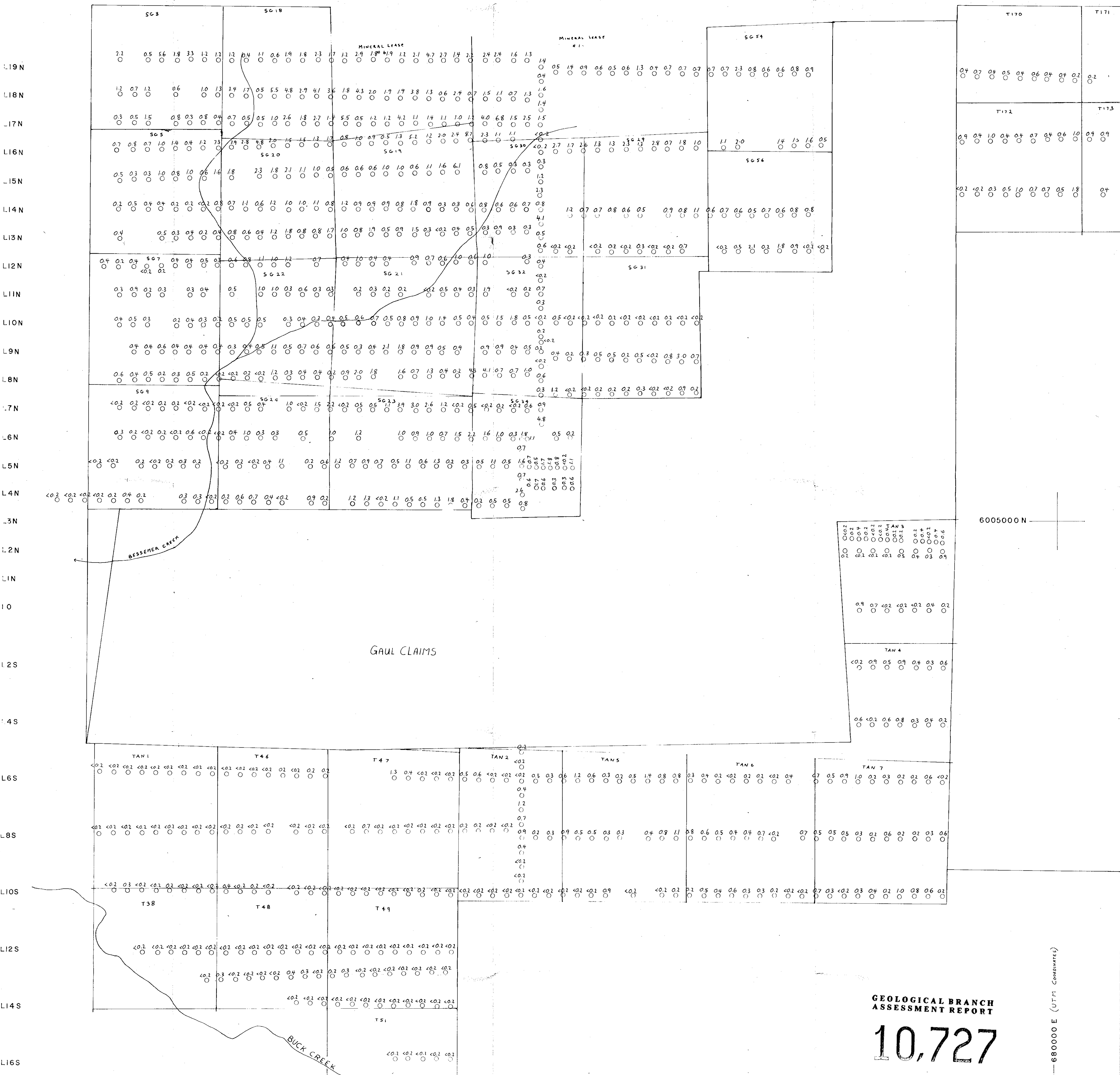
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DRAWN PJB	SCALE 1:5000	EQUITY SILVER MINES LTD	FIGURE 7
TRACED	DATE AUG '82	SOUTHERN COMFORT GRIT	COPPER in TILL (ppm) Number in brackets - depth of sample in metres
APPROVED RP	REVISED	TILL SAMPLE LOCATIONS	



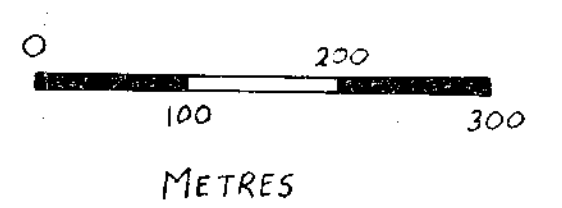
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DRAWN PJB	SCALE 1:5000	EQUITY SILVER MINES LTD.	FIGURE 6
TRACED	DATE AUG' 82	SOUTHERN COMFORT GRID	SILVER in Soils (ppm)
APPROVED RP	REVISED	SOIL SAMPLE LOCATIONS	FILE REF No

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DRAWN PJB	SCALE 1:5000	EQUITY SILVER MINES LTD.	FIGURE 5
TRACED	DATE AUG '82	SOUTHERN COMFORT GRID	ZINC in SOIL (ppm)
APPROVED RP	REVISED	SOIL SAMPLE LOCATIONS	FILE REF N

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680000E (UTM Coordinate)