

'80-#487-B 8262

1980 Assessment Report

Geochemical Survey

Title: MICK CLAIM GROUP

Claims: Mick 1-8

Location: Hamilton Creek, Nicola M.D.
92 I 2E
50° 08' N 120° 38' W

By: L. Sookochoff, P.Eng.
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2602-1055 West Georgia Street
Vancouver, B.C., V6E 3P3

For: American Energy Corp.
Vancouver, B.C.

Dates of Work: July 3-5, 1980

Date of Report: August 11, 1980

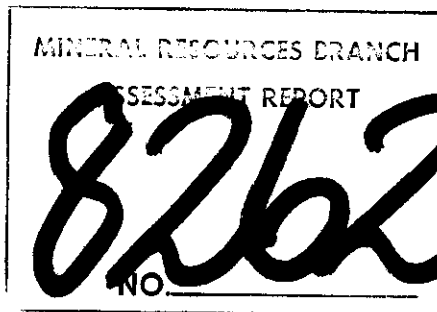


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Geochemical Report

on the

MICK CLAIM GROUP

for

AMERICAN ENERGY CORP.

INTRODUCTION

During July 1980, a geochemical survey was carried out on the Mick claim group. The purpose of the geochemical survey was to delineate areas of potential sub surface mineralization and to provide correlative information to geophysical and geological results prior to selecting prime target areas for testing by diamond drilling.

The report is based on information supplied to the writer as to the geochemical survey.

The field program was carried out during the period of July 3-5, 1980.

PROPERTY

The property is comprised of eight contiguous located mineral claims staked under the old two post system. Particulars are as follows:

<u>Claim Name</u>	<u>Record No.</u>	<u>Expiry Date</u>
Mick 1 - 8	881-888	May 5, 1981

Any legal aspects pertaining to the property are beyond the scope of this report.

LOCATION AND ACCESS

The claim group is located 16 km east of Merritt, approximately two and one-half km south of Nicola Lake and at the headwater of Hamilton Creek.

Access is south via the Merritt-Princeton Highway to a secondary road branching off to the east 12 km from Merritt. The claims are 11 km eastward from the junction via Hamilton Lake.

An alternate route is via the Lundom Lake road which branches off the Merritt-Princeton Highway, 15 km from Merritt. The secondary road to the claims is to Lundom Lake, five and one-half km from the Merritt Highway, thence a branch road northward to Hamilton Lake and eastward to the claims.

TRANSPORTATION AND SUPPLIES

Merritt is some 350 km from Vancouver and 95 km from Kamloops which is served daily by P.W.A. from Vancouver.

Most supplies for the exploration and development program would be available at Merritt.

PHYSIOGRAPHY

The property generally covers rounded slopes with low relief. Elevations on the property range up to 1,400 meters with a local relief of 100 meters.

WATER AND POWER

Sufficient water for the exploration program should be available from lake and/or water courses on or adjacent to the property.

A power line is within four km to the SE of the property.

HISTORY

The Nicola volcanic belt from the U.S. border south of Princeton to Kamloops Lake in the north has been the object of continued mineral exploration since the late 1800's. The original discovery which resulted in the intensive exploration, was of gold and platinum placer deposits along the Tulameen and Similkameen Rivers. Subsequent exploration of the Nicola belt led to the discovery of numerous copper and associated mineral occurrences which were explored by trenches, pits shafts and adits. As a result of continued exploration, the Copper Mountain deposits near Princeton, the Craigmont deposit near Merritt and the Afton deposit near Kamloops were developed to production.

One of the more active exploration areas was the Aspen Grove Camp where widespread copper showings occur. The Mick claims are to the north of the Aspen camp and east of Merritt.

In the Courtenay Lake area to the south, copper mineralization occurs within shear zones in the Nicola meta volcanics.

To the west in the Hamilton Creek area, similar copper occurrences are found accompanied with magnetite.

To the east in the Quilchena Creek area, copper-gold occurrences have been worked on since the early 1900's. Diamond drilling of these showings has recently been undertaken.

The property is located centrally within a north-south trending band of the Nicola Group of Upper Triassic sedimentary and volcanic rocks.

The Nicola rocks form an arcuate band stretching from Princeton in the south, through Merritt and beyond Kamloops Lake in the north. Peripheral rocks are predominantly Jurassic intrusives in addition to Cenozoic sedimentary and volcanic rocks. Stocks and plugs of intrusives also outcrop within the Nicola rocks.

The Nicola Group includes units of limestone which can be favourable host rocks for mineralization as at the Craigmont deposit.

The Mick claims are underlain by rocks of the Nicola Group with the northern edge of an intrusive stock proximally indicated according to Geological Map 886A.

The host rocks to mineralization on the claims are greenstones and augite porphyry flows with northeasterly and northwesterly steeply dipping fractures.

Two areas of mineralization are known to occur on the property. Mineralization is within a quartz (vein) flooded area with sulphides confined to local quartz veins. The quartz veins are mineralized with blebs of tetrahedrite, galena and chalcopyrite.

GEOCHEMICAL SURVEY

A base line was established along the north-south claim line with east-west cross lines established at 100 meter intervals from 4S mid way on the northernmost claims to 20S 100 meters to the south of the southern boundary. Samples were taken at 25 meter intervals along lines 12S to 20S, which cover the known showings and at 50 meter intervals on lines 4S, 6S, 7S, 8S, 9S, 10S and 11S. Lines 5S, 15S, 17S and 19S were not sampled.

The stations sampled were flagged and marked according to grid co-ordinates.

The soil samples were taken from a depth of 20 to 25 cm.

A shovel was utilized to penetrate the top humic layer of soil to a common well developed brown forest soil and the "B" horizon. The samples were placed in brown wet-strength bags which were marked according to grid. A total of 419 samples were collected.

TESTING METHOD

The samples were submitted to Acme Analytical Laboratories Ltd. for analysis. The procedure for testing was as follows:

1. Dried and sifted through an 80 mesh screen
2. Designated amount placed in test tube with an addition of a standard amount of perchloric and nitric acid.
3. Test tube with contents heated.
4. Measurement of metal content taken by atomic absorption method and recorded as ppm.

The samples were tested for copper, zinc, lead and silver.

TREATMENT METHOD

The background value, the subanomalous values and the anomalous values were determined for each set of results (Cu, Pb, Zn, Ag) by statistical analysis.

The results were determined as follows:

	ppm			
	<u>Cu</u>	<u>Pb</u>	<u>Zn</u>	<u>Ag</u>
Background value	24	20	72	.4
Sub-anomalous value	48	32	144	.6
Anomalous value	92	90	180	.7
	(Map 4)	(Map 3)	(Map 2)	(Map 5)

The geochemical results were plotted on a base map and contoured. In each case the minimum value contoured was the sub-anomalous value which although may not be a significant value could be a subtle indicator of mineralization.

RESULTS

In analyzing the geochemical results, the following were taken into consideration:

1. The predominant galena mineralization would reflect the more obscure areas of silver mineralization.
2. As local relief is moderate to limited and the area is within a relatively "dry belt" mineral extension within the soil may be minimal and thus local correlative anomalous areas could be significant.
3. Mineralization is contained within quartz veins which may be contained within unrestricted shear zones.

Considering the above, the results of the geochemical survey delineated the two known zones of mineralization 1 and 2 with more definitive correlation in the zinc geochem. The more significant correlative areas are as follows:

Zone 1

The results indicate a zone of increased mineralization to the northwest of the trenched area and centered by 11S and 10 + 75S on the baseline. The anomalous area is 200 meters by up to 100 meters.

Zone 2

The known zone trending northwesterly and centered at 12S 350W is covered by sub-anomalous lead and zinc values with more definitive anomalous silver values. Other anomalous silver zones are indicated to the east and west which correlate with anomalous lead and zinc values and sub-anomalous copper values.

Zone 3

A 600 meter north-south trending sub-anomalous zone with included anomalous areas extending over 100 meters occurs along the south east corner claim. Correlation with copper and lead sub-anomalous values is occasional.

Zone 4

Correlative anomalous lead and silver values and general sub-anomalous zinc and copper values occur along the eastern mid boundary.

CONCLUSIONS

Two known zones of mineralization (1 and 2) have been delineated in part by anomalous geochemical values with indicated extensions to the zones. Zone 3, although only anomalous in silver values is significant for the area covered.

Zone 4 with local anomalous values and general sub-anomalous values may be the expression of deeper seated mineralization.

RECOMMENDATIONS

It is recommended that geophysical surveys be carried out over the indicated anomalous zones to obtain additional correlative data for delineating mineral zones that would be tested by diamond drilling.

Respectfully submitted,



Laurence Sookchoff, P.Eng.
Consulting Geologist

August 11, 1980
Vancouver, B.C.

REFERENCES

- COCKFIELD, W.E. - Geology and Mineral Deposits of
Nicola Map Area, British Columbia, geological
Survey of Canada Memoir 249, 1961
- RICK, H.M.A. - Geology and Mineral Deposits of the
Princeton Map-Area, British Columbia, Geological
Survey of Canada Memoir 243, 1960
- - Geological Fieldwork 1978, Ministry of
Energy, Mines and Petroleum Resources,
Paper 1979-1, p.p. 41-46.
- SOOKOCHOFF, L. - Geological Report on the Mick claim
Group for American Energy Corp. July 16, 1980

CERTIFICATE

I, Laurence Sookochoff, of the City of Vancouver, in the Province of British Columbia, do hereby certify:

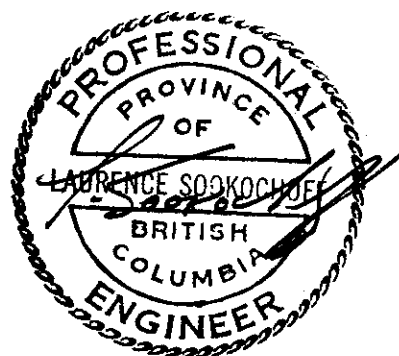
That I am a Consulting Geologist with the firm of Pan-American Consultants Ltd. of 2602-1055 West Georgia Street, Vancouver, B.C.

I further certify that:

1. I am a graduate of the University of British Columbia (1966) and hold a B.Sc. degree in Geology.
2. I have been practising my profession for the past fourteen years.
3. I am registered with the Association of Professional Engineers of British Columbia.
4. The information for this report was obtained from information supplied to the writer on the geochemical survey carried out during July 1980.

Laurence Sookochoff, P.Eng.
Consulting Geologist

August 11, 1980
Vancouver, B.C.



AMERICAN ENERGY CORP.

Geochemical Survey - Mick Claim

Statement of Costs

Field

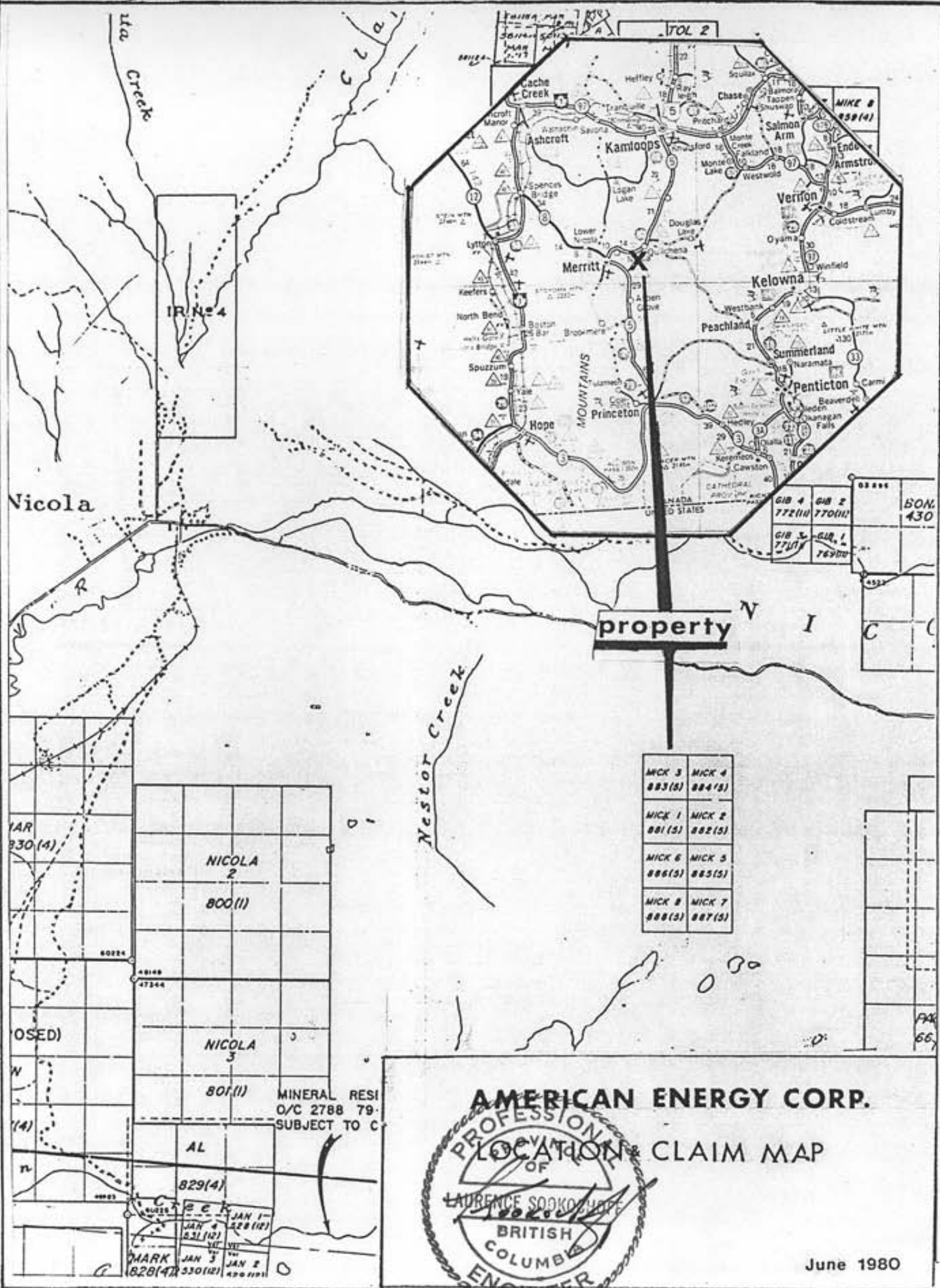
Sample pick-up 419 samples	
@ \$3.50/sample	\$1,466.50
(including labor and field costs)	

Lab

Soil Testing, 419 samples	
@ \$3.05/sample	1,298.90

Report

Geochemical report	800.00
Compilation and rough draft	250.00
Drafting and printing	275.00
Typing and Xerox	<u>100.00</u>
	<u>\$4,190.40</u>



IRN #4

Nicola

property

IRN 330(4)

NICOLA
2
800(1)

NICOLA
3
801(1)

MINERAL RESI
O/C 2788 79
SUBJECT TO C

AL

829(4)
JAN 1- 828(12)
JAN 4 831(12)
JAN 3 828(4)
JAN 2 830(12)

MICK 3 883(5)	MICK 4 884(5)
MICK 1 881(5)	MICK 2 882(5)
MICK 6 886(5)	MICK 5 885(5)
MICK 8 888(5)	MICK 7 887(5)

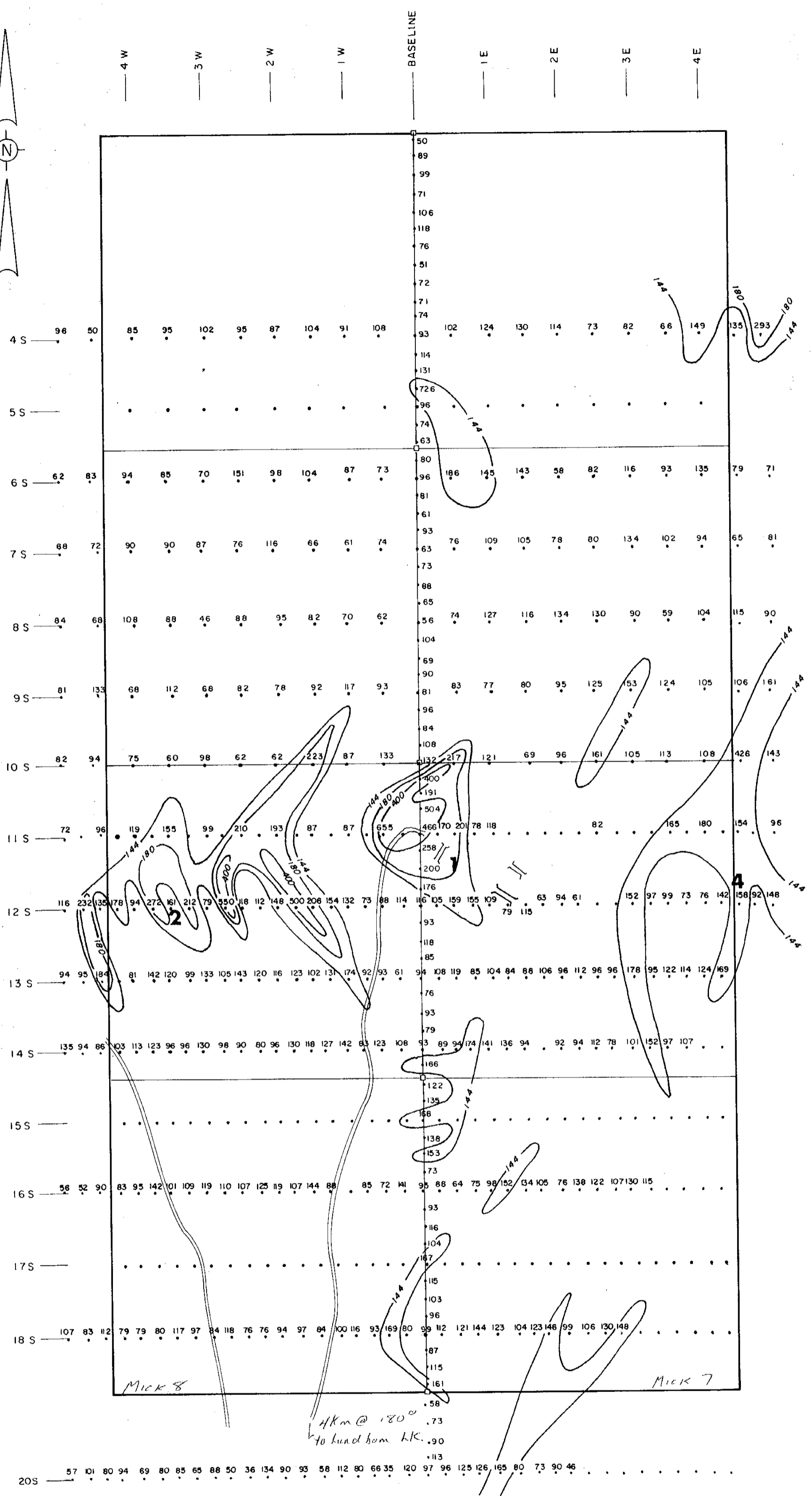
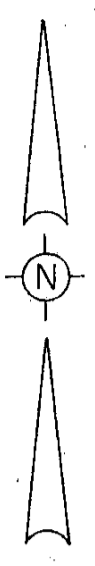
GIB 4 772(11)	GIB 2 770(11)	BON 430
GIB 5 773(11)	GIB 1 769(11)	



AMERICAN ENERGY CORP.

LOCATION & CLAIM MAP

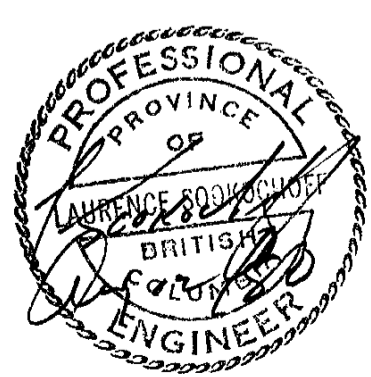
June 1980



LEGEND

- == Road
- Station
- 80 Zinc in ppm
- Background 72 ppm
- Sub-anomalous 144 ppm
- Anomalous 180 ppm

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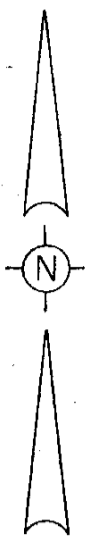


Map 2

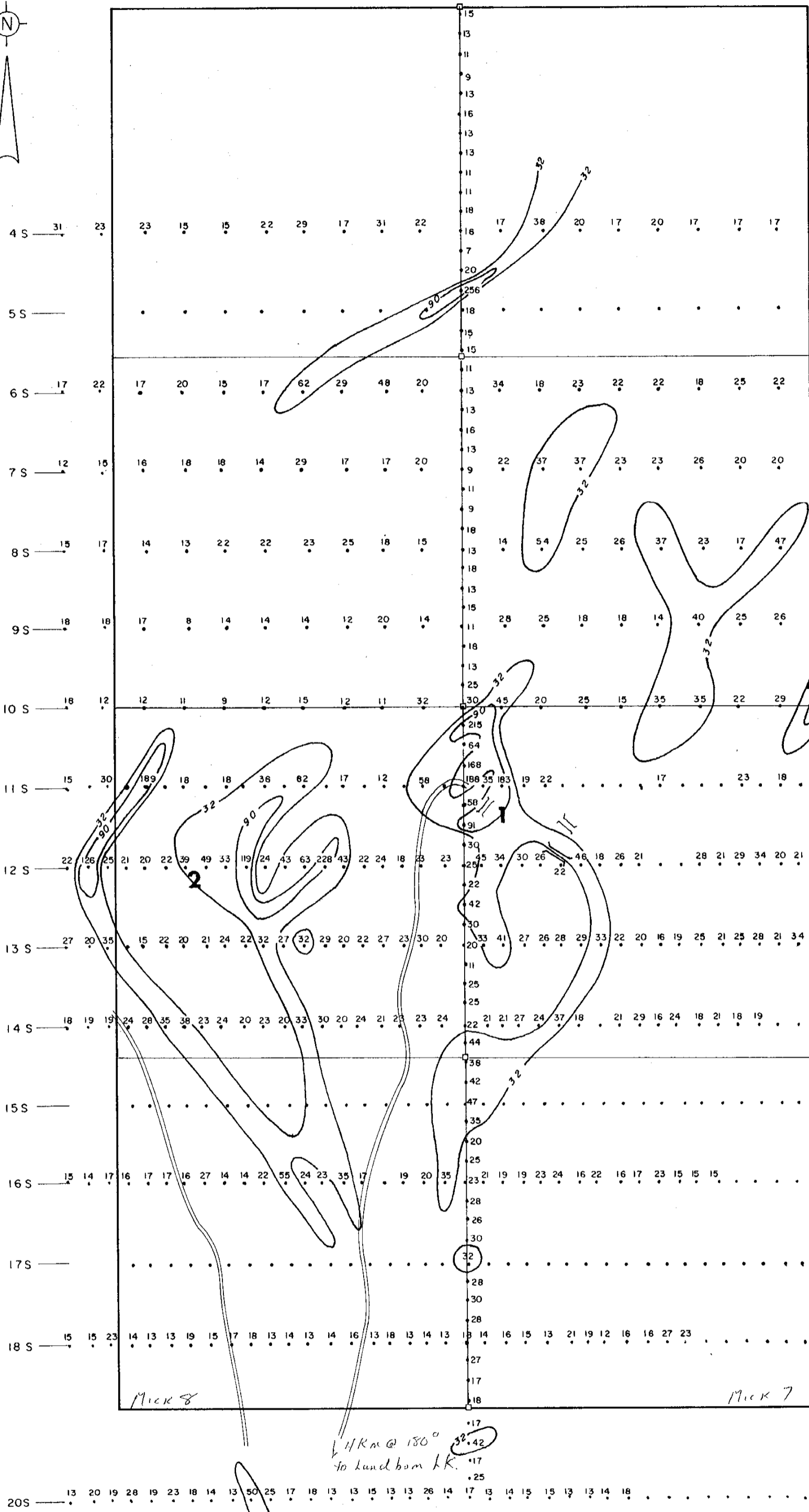
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MICK CLAIMS NICOLA M.D., B.C.
ZINC GEOCHEMISTRY

0 100 200 300 METRES
SCALE 1:5000 JULY 1980

To accompany Geochemical Report on the Mick Claim Group dated August 11, 1980 by L. Sooschoy P. Eng.



4 W 3 W 2 W 1 W BASELINE 1 E 2 E 3 E 4 E



LEGEND

- == Road
- Station
- 50 Lead in ppm

Background 20 ppm
 Sub-anomalous 32 ppm
 Anomalous 90 ppm

Map 3

MINERAL RESOURCES BRANCH
ASSESSMENT REPORT

8262

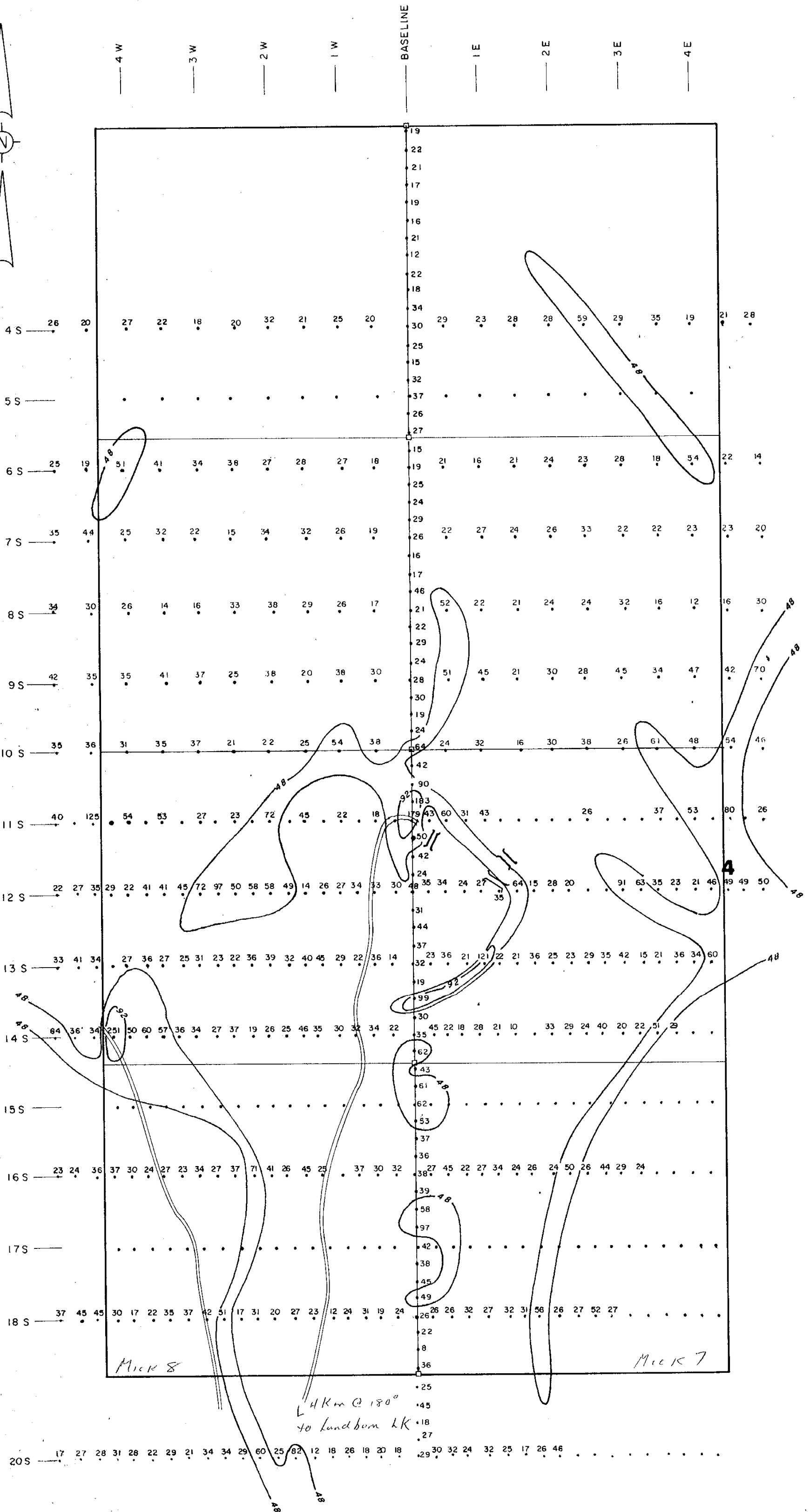


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 MICK CLAIMS NICOLA M.D., B.C.
LEAD GEOCHEMISTRY

0 100 200 300 METRES

SCALE 1 : 5000 JULY 1980

To accompany Geochemical Report on the Mick claim Group dated August 14, 1980 - by L. Sooker H. King



Map 4

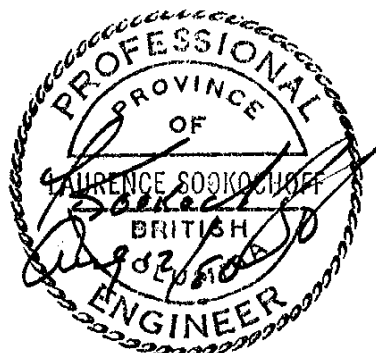
LEGEND

- == Road
- Station
- 26 Copper in ppm

Background 24 ppm
 Sub-anomalous 48 ppm
 Anomalous 92 ppm

M.R. RESOURCES
 ASSESSMENT REPORT

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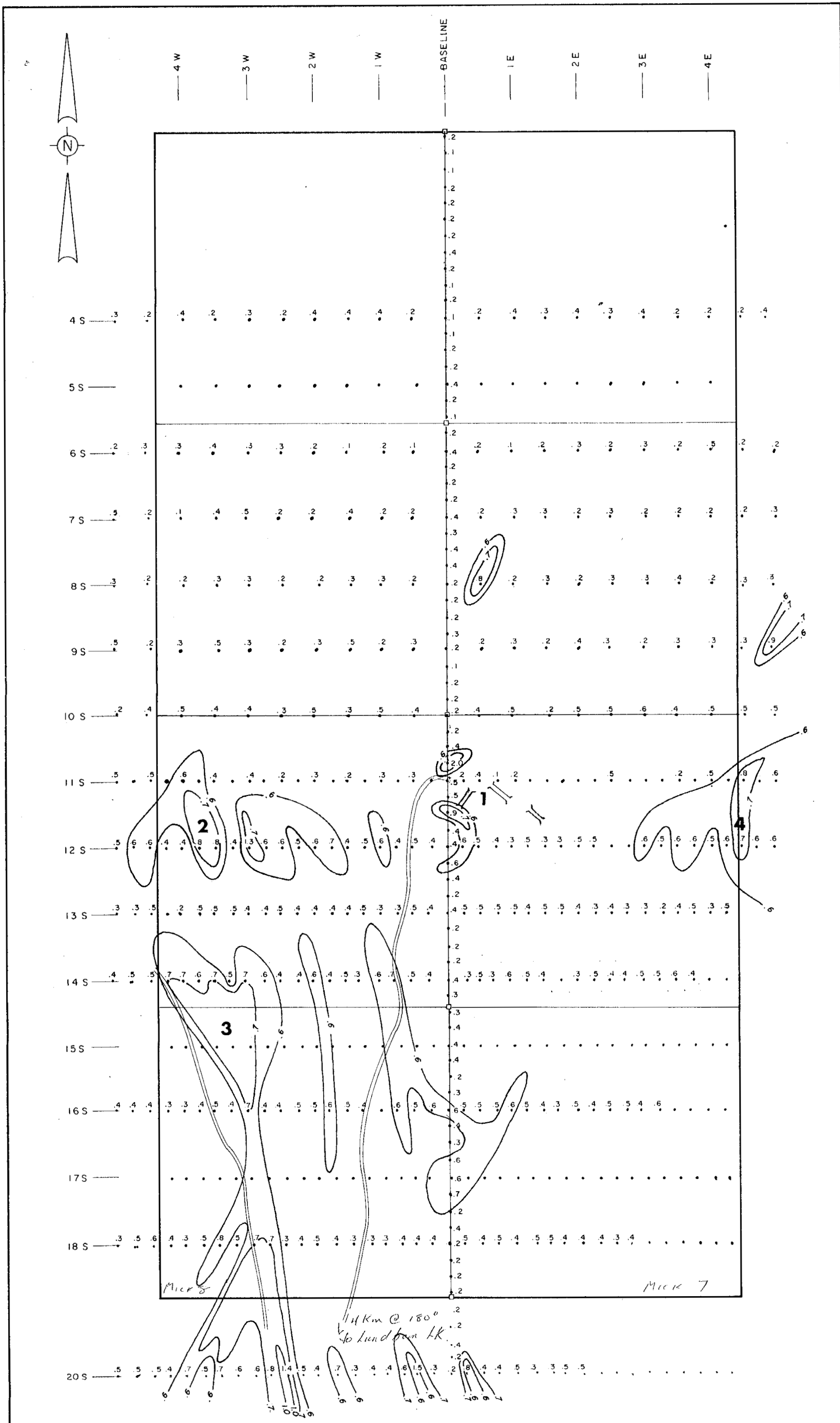


AMERICAN ENERGY CORP.
 MICK CLAIMS NICOLA M.D.,B.C.
COPPER GEOCHEMISTRY

0 100 200 300 METRES

SCALE 1:5000 JULY 1980

To accompany Geochemical Report on the Mick Claim Group dated August 11, 1980 by L. Sookochoff P.E.



Map 5

LEGEND
 = Road
 • Station
 7 Silver in ppm
 Background .4 ppm
 6 anomalous .6 ppm
 7 anomalous .7 ppm



AMERICAN ENERGY CORP.
 MICK CLAIMS NICOLA M.D., B.C.
SILVER GEOCHEMISTRY

0 100 200 300 METRES
 SCALE 1:5000 JULY 1980

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To accompany Geochemical Report on the Mick Claim Group dated August 14, 1980 by L. Sookchoote P. Eng.