

574

STATEMENT OF QUALIFICATIONS

The following report covers field work carried out in the Tommy Jack Creek area of B. C. under my direction by Mr. W. D. Tompson, and laboratory analyses were made under the direction of Mr. R. E. Cribbs in the Canadian Exploration laboratory, Vancouver.

Mr. Tompson holds a Master of Science degree from Montana State College from which he graduated in 1959. Between June and October 1959 he carried out geochemical exploration for the Northern Pacific Railroad. Between December 1959 and May 1962 he held the position of Mine Geologist for the East Pacific Company, Helena, Montana. In May 1962 he went to work for Canadian Exploration Limited, and during his period of employment has conducted numerous geochemical surveys. It is therefore felt that the work entailed in the preparation of this report is of a standard acceptable for recording as assessment work.

Lawrence Adie, P. Eng.

L. ADIE
P. Eng.

/ja

9 November 1964
Vancouver, B. C.

CANEX AERIAL EXPLORATION LTD.

DIVISION OF CANADIAN EXPLORATION LIMITED.

700 BURRARD BUILDING

VANCOUVER 5, B. C. CANADA

22 September 1964

File: 11-2-27

GEOCHEMICAL REPORT

KAY GROUP, TRUDY GROUP, SANDY GROUP AND

NONIE GROUP

TOMMY JACK CREEK, B. C.

OMINECA MINING DIVISION

W. D. TOMPSON

94D/4E

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Department of
Mines and Petroleum Resources
ASSESSMENT REPORT

NO. 574 MAP

PLATES

Plate I - Map showing arsenic in soil, 1963 sampling

Plate II - Map showing lead in soil, 1963 sampling

Plate III - Map showing silver in soil, 1963 sampling

Plate IV - Map showing arsenic in soil, 1964 sampling

Plate V - Map showing lead in soil, 1964 sampling

Plate VI - Map showing silver in soil, 1964 sampling

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Mines and Petroleum Resources
ASSESSMENT REPORT
NO. 574 MAP

General Statement

The mineral claim Groups Nonie, Trudy, Kay, and Sandy are underlain by argillite and greywacke of the Hazelton Series. No intrusive rocks are known to occur within the boundaries of the claims. However, Hazelton Series rocks are intruded by acid plutonic rocks ten miles to the south, near the north end of the Atna Range.

The area was glaciated, but the Sicintine River and Tommy Jack Creek have cut below the glacial surface and only small remnants of glacial debris occur within the claim area.

Heavy forest and vegetation mantle the entire claim area and less than one percent outcrops occur. Overburden is about two to four feet thick.

Property

The mineral claims which are the subject of this report lie approximately one mile southwest from the confluence of Tommy Jack Creek and the Sicintine River, and are about 40 miles north of Hazelton, B. C.

The claims records are as follows:

Sandy Group

<u>Claim Name</u>	<u>Record Numbers</u>
Nonie 13	21755
Nonie 14	21756
Trudy 5	21806
Trudy 6	21807
Diane 7	21830
Diane 8	21831
Sandy 2	21793
Sandy 3	21794
Sandy 4	21795
Sandy 5	21796
Sandy 6	21797
Sandy 7	21798
Sandy 8	21799

Sandy Group

<u>Claim Name</u>	<u>Record Numbers</u>
Jean 1	21772
Jean 2	21773
Jean 3	21774
Jean 4	21775
Goat 5	21762
Frances 7	21786
Frances 8	21787

Trudy Group

Nonie 15	21757
Nonie 16	
Trudy 7	21808
Trudy 8	21809
Trudy 9	21810
Trudy 10	21811
Diane 9	21832
Diane 10	21833
Diane 11	21834
Diane 12	21835
Frances 9	21788
Frances 10	21789
Frances 11	21790
Frances 12	21791
Sandy 9	21800
Sandy 10	21801
Jean 5	21776
Jean 6	21777
Jean 7	21778
Jean 8	21779

Kay Group

Kay 1	21812
Kay 2	21813
Kay 3	21814
Kay 4	21815
Kay 5	21816
Kay 6	21817
Kay 7	21818
Kay 8	21819
Kay 9	21920
Kay 10	21821
Kay 11	21922
Kay 12	21923

Kay Group

<u>Claim Name</u>	<u>Record Numbers</u>
Nonie 1	21743
Nonie 2	21744
Nonie 3	21745
Nonie 4	21746
Nonie 5	21747
Nonie 6	21748
Nonie 8	21750

Nonie Group

Nonie 10	21752
Nonie 11	21753
Nonie 12	21754
Trudy 1	21802
Trudy 2	21803
Trudy 3	21804
Trudy 4	21805
Diane 1	21824
Diane 2	21825
Diane 3	21826
Diane 4	21827
Diane 5	21828
Diane 6	21829
Frances 1	21780
Frances 2	21781
Frances 3	21782
Frances 4	21783
Frances 5	21784
Frances 6	21785
Sandy 1	21792

Topography

Relief is moderate to steep: slopes have a vertical elevation change of about 1,000 feet per mile on the Tommy Jack Creek drainage, and about 2,000 feet per mile on the Sicintine River drainage.

The crest of the Atna Range lies about ten miles to the south and is largely covered by ice and snow.

Survey Control

A base line was established by use of tripod-mounted Brunton and chain. Horizontal distance was calculated from slope distance and vertical angle. The base line was plotted on a map which was enlarged from Interim Planimetric Map 94-D, W $\frac{1}{2}$. Control of geochemical sampling lines was by hand-held compass and chain.

Geochemical Prospecting

Sampling

Geochemical sample lines were run on a bearing of N 50° E. Lines were placed 600 feet apart; a sample interval of 100 feet was maintained. Plates Nos. I, II, and III present sampling conducted in September, 1963. Plates Nos. IV, V, and VI present sampling conducted in July, 1964. Soil samples were collected on the geochemical grid. Humus was removed from the sample site with the aid of a garden mattock, and three to four tablespoons of soil were taken from the top of the "B" soil horizon.

Analysis

Samples were screened to minus 80 mesh and were analyzed for arsenic and lead by fluoroscope x-ray. Samples were also analyzed for silver by spectroscopy.

Results

Distinct trends were established as a result of the geochemical sampling. Anomalies which were indicated as a result of the 1963 sampling were trenched in 1964 and mineralization was discovered in the bedrock. Geochemical sampling conducted in 1964 indicated probable continuation of anomalies which were indicated in the 1963 work.

Statement of Expenses

Geochemical sampling was supervised by W. D. Tompson and was conducted by those shown below. P. Sparkes was employed as camp cook.

Name	Dates Employed	Expenditure		
G. Huck	September 11-20 incl, 1963	\$ 150		
R. Anderson	" " "	150		
T. Heise	" " "	<u>113</u>		
	TOTAL - 30 man days		\$ 433.00	
L. Bennett	July 1 - 31, 1964	350		
D. Howard	" " "	350		
Glen Huck	" " "	313		
Gene Huck	" " "	313		
R. Purvis	" " "	221		
B. Radcliffe	" " "	265		
P. Sparkes	" " "	<u>495</u>		
	TOTAL - 182 man days		<u>2,307.00</u>	
	TOTAL			\$2,740.00
Compensation & Benefits @ 15%		411.00		
Camp Operation		1,373.19		
Geochemical Assays - X-Ray Assay Lab		<u>1,521.00</u>		
			3,305.19	3,305.19
Head Office Supervision & Overhead @ 20%				548.00
Aircraft - 1964				
Okanagan Helicopter - June 25		1,204.51		
" " - July 2, 9, 10, 11		<u>1,270.00</u>		
			<u>2,474.51</u>	
	TOTAL			<u>\$9,067.70</u>


W. D. TOMPSON

WDT:ja

DOMINION OF CANADA:
 PROVINCE OF BRITISH COLUMBIA:
 To Wit:

In the Matter of

I, Lawrence Adie

of 700 Burrard Building, Vancouver 5, B. C.

in the Province of British Columbia, do solemnly declare that the following expenditures have been incurred by Canex Aerial Exploration Ltd. in carrying out assessment work on the following contiguous claim groups in the Uminca Mining Division: Eandy, Trudy, Kay and Nonie Groups.

Geochemical Survey

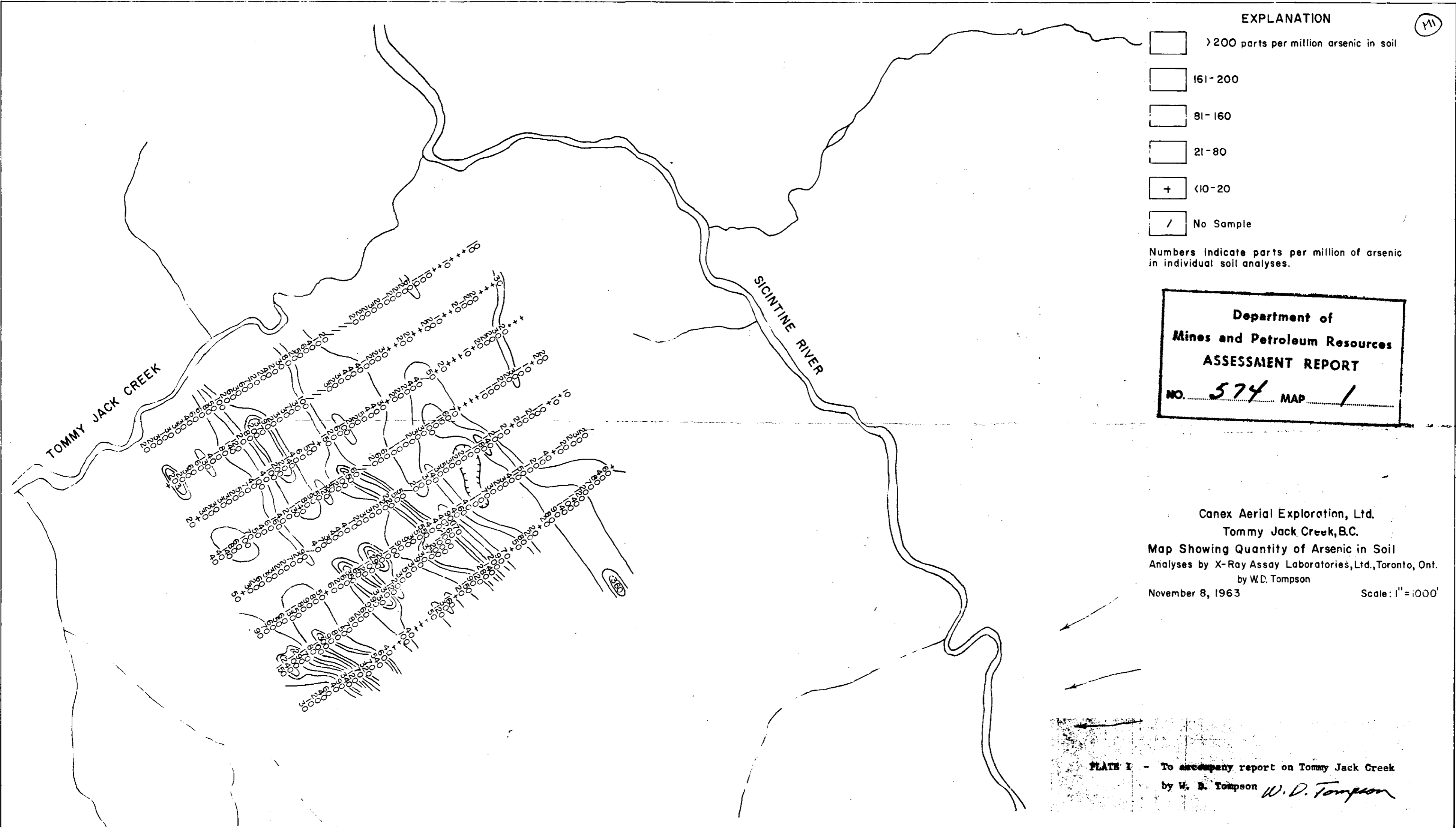
Name	Dates Employed		
G. Huck	September 11 - 20 incl, 1963	\$ 150	
R. Anderson	" " " "	150	
T. Heide	" " " "	<u>113</u>	
	TOTAL - 30 man days		\$ 433
L. Bennett	July 1 - 31, 1964	350	
D. Howard	" " " "	350	
Glen Huck	" " " "	313	
Glen Huck	" " " "	313	
R. Purvis	" " " "	221	
B. Radcliffe	" " " "	265	
S. Spacks	" " " "	<u>495</u>	
	TOTAL - 132 man days		<u>2,307</u>
	TOTAL		\$2,740.00
Compensation & Benefits @ 15%		411.00	
Camp Operation		1,373.19	
Geochemical Assays - X-ray Assay Lab		<u>1,521.00</u>	
			3,205.19 3,305.19
Head Office Supervision & Overhead @ 20%			548.00
Aircraft - 1964 <i>Not allowed</i>			
Changgen Helicopter - June 25		1,204.51	
" " July 2, 9, 10, 11		1,204.51	
			<u>2,474.51</u> <i>6573.19</i>
			69,067.70

And I make this solemn declaration conscientiously believing it to be true, and knowing that it is of the same force and effect as if made under oath and by virtue of the "Canada Evidence Act."

Declared before me at the
 of _____, in the
 Province of British Columbia, this
 day of _____, A.D.

SHO - MINING RECORDS
 RECEIVED
 SEP 3 1964
 M.R. # _____ S
 VANCOUVER, B.C.

A Commissioner for taking Affidavits within British Columbia or
 A Notary Public in and for the Province of British Columbia.



EXPLANATION

- >200 parts per million arsenic in soil
- 161-200
- 81-160
- 21-80
- + <10-20
- / No Sample

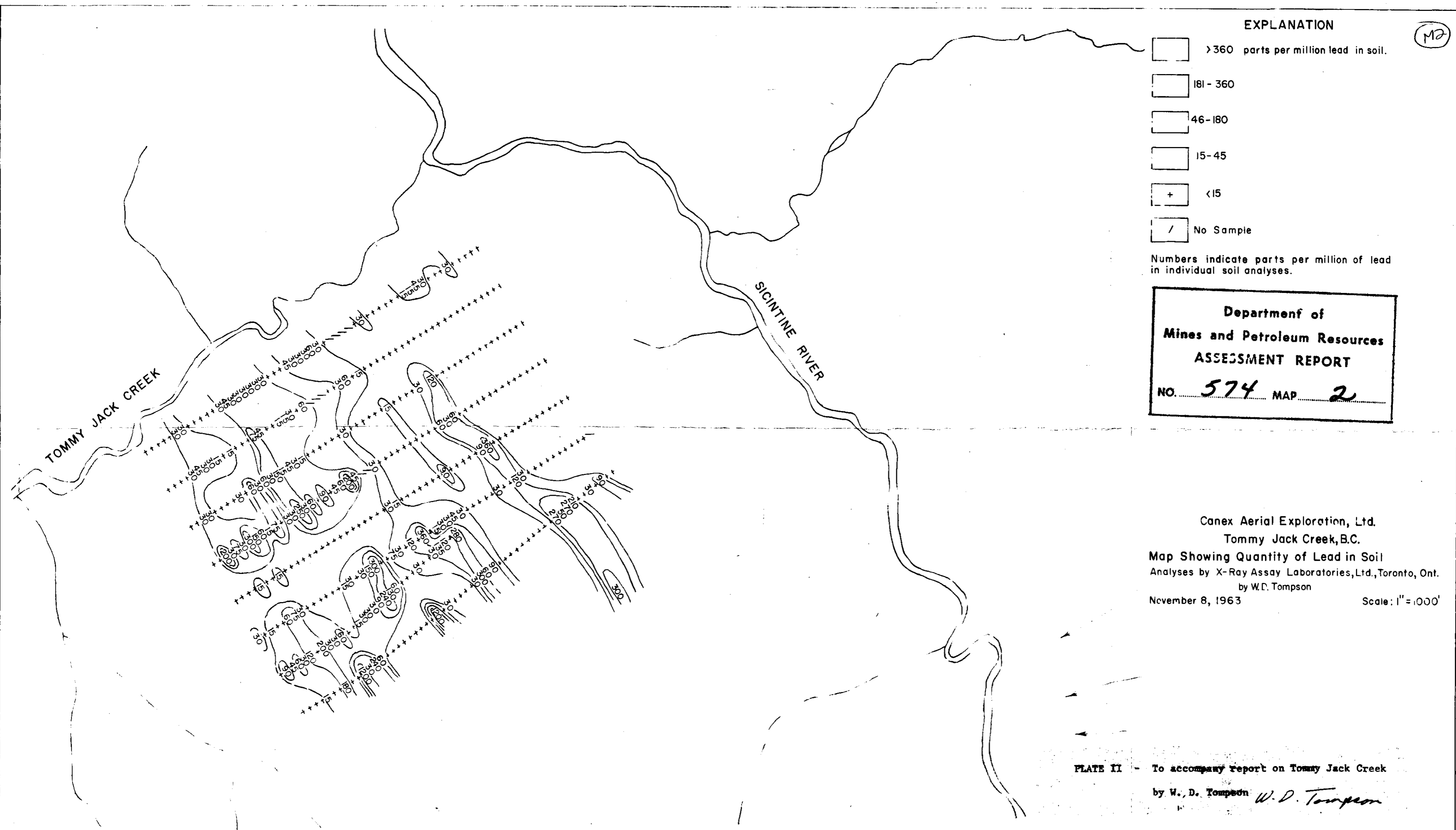
Numbers indicate parts per million of arsenic in individual soil analyses.

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT

NO. 574 MAP 1

Canex Aerial Exploration, Ltd.
Tommy Jack Creek, B.C.
Map Showing Quantity of Arsenic in Soil
Analyses by X-Ray Assay Laboratories, Ltd., Toronto, Ont.
by W.D. Tompson
November 8, 1963 Scale: 1" = 1000'

PLATE I - To accompany report on Tommy Jack Creek
by W. B. Tompson *W.D. Tompson*



EXPLANATION

(12)

- > 360 parts per million lead in soil.
- 181 - 360
- 46 - 180
- 15 - 45
- + < 15
- / No Sample

Numbers indicate parts per million of lead in individual soil analyses.

Department of
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 NO. 574 MAP 2

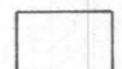
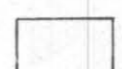
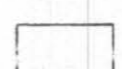
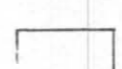

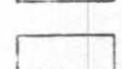
Canex Aerial Exploration, Ltd.
 Tommy Jack Creek, B.C.
 Map Showing Quantity of Lead in Soil
 Analyses by X-Ray Assay Laboratories, Ltd., Toronto, Ont.
 by W.D. Tompson
 November 8, 1963 Scale: 1" = 1,000'

PLATE II - To accompany report on Tommy Jack Creek
 by W. D. Tompson *W.D. Tompson*

Department of
 Mines and Petroleum Resources
 ASSESSMENT REPORT
 NO. **574** MAP **3**

EXPLANATION

M3

-  > 10 parts per million
-  3-10
-  > 1-3
-  0-1
- 
- 

Numbers indicate parts per million of
 in individual soil analyses.



Canex Aerial Exploration, Ltd.
 Tommy Jack Creek, B.C.
 Map Showing Quantity of Silver
 Analyses by X-Ray Assay Laboratories, Ltd., Toronto, Ont.
 by W.D. Tompson
 November 8, 1963
 Scale: 1" = 1000'

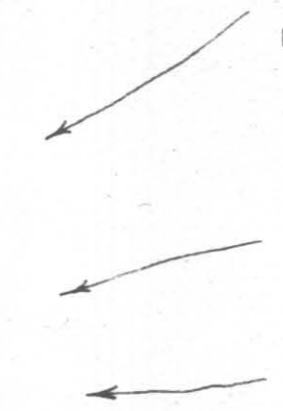


PLATE III - To accompany report on Tommy Jack Creek
 by W. D. Tompson *W. D. Tompson*

Department of
 Mines and Petroleum Resources
 ASSESSMENT REPORT
 NO. 574 MAP 4

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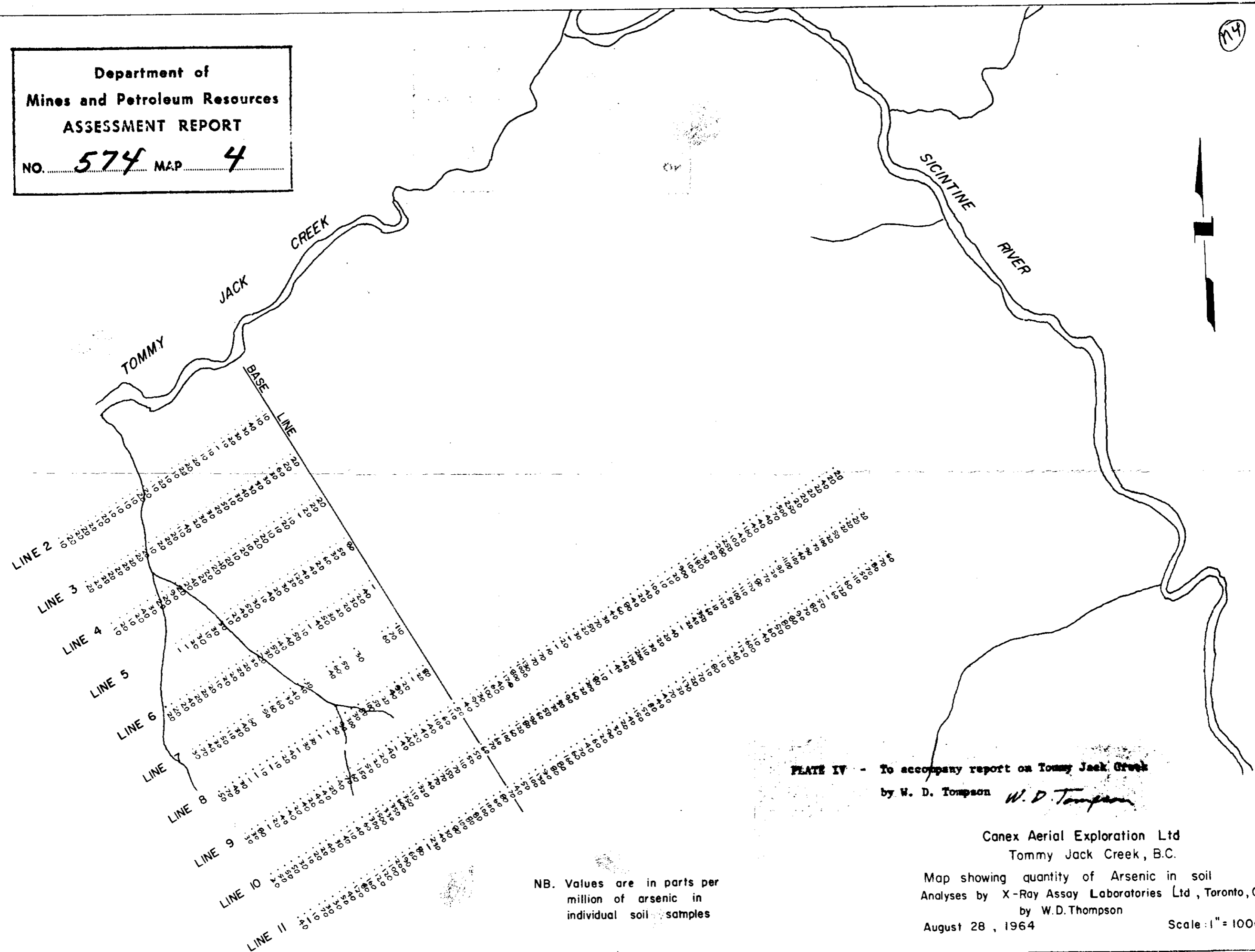


PLATE IV - To accompany report on Tommy Jack Creek
 by W. D. Thompson *W. D. Thompson*

NB. Values are in parts per million of arsenic in individual soil samples

Canex Aerial Exploration Ltd
 Tommy Jack Creek, B.C.
 Map showing quantity of Arsenic in soil
 Analyses by X-Ray Assay Laboratories Ltd, Toronto, Ont.
 by W.D. Thompson
 August 28, 1964
 Scale: 1" = 1000'

MS

Department of
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 ASSESSMENT REPORT
 NO. **574** MAP **5**

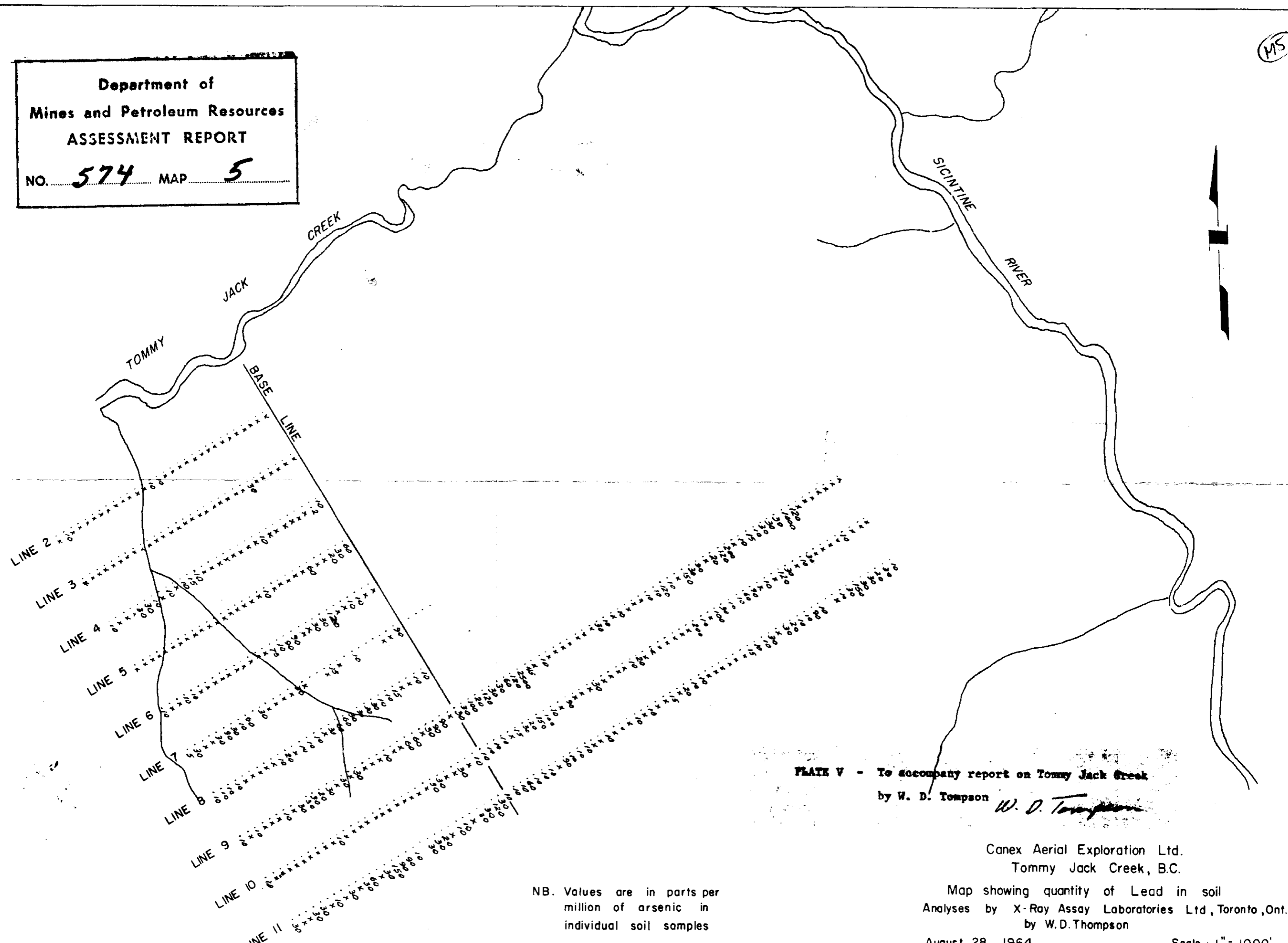


PLATE V - To accompany report on Tommy Jack Creek
 by W. D. Tompson *W. D. Tompson*

Canex Aerial Exploration Ltd.
 Tommy Jack Creek, B.C.

Map showing quantity of Lead in soil
 Analyses by X-Ray Assay Laboratories Ltd, Toronto, Ont.
 by W.D. Thompson

August 28, 1964

Scale: 1" = 1000'

NB. Values are in parts per million of arsenic in individual soil samples

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Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. 574 MAP 6

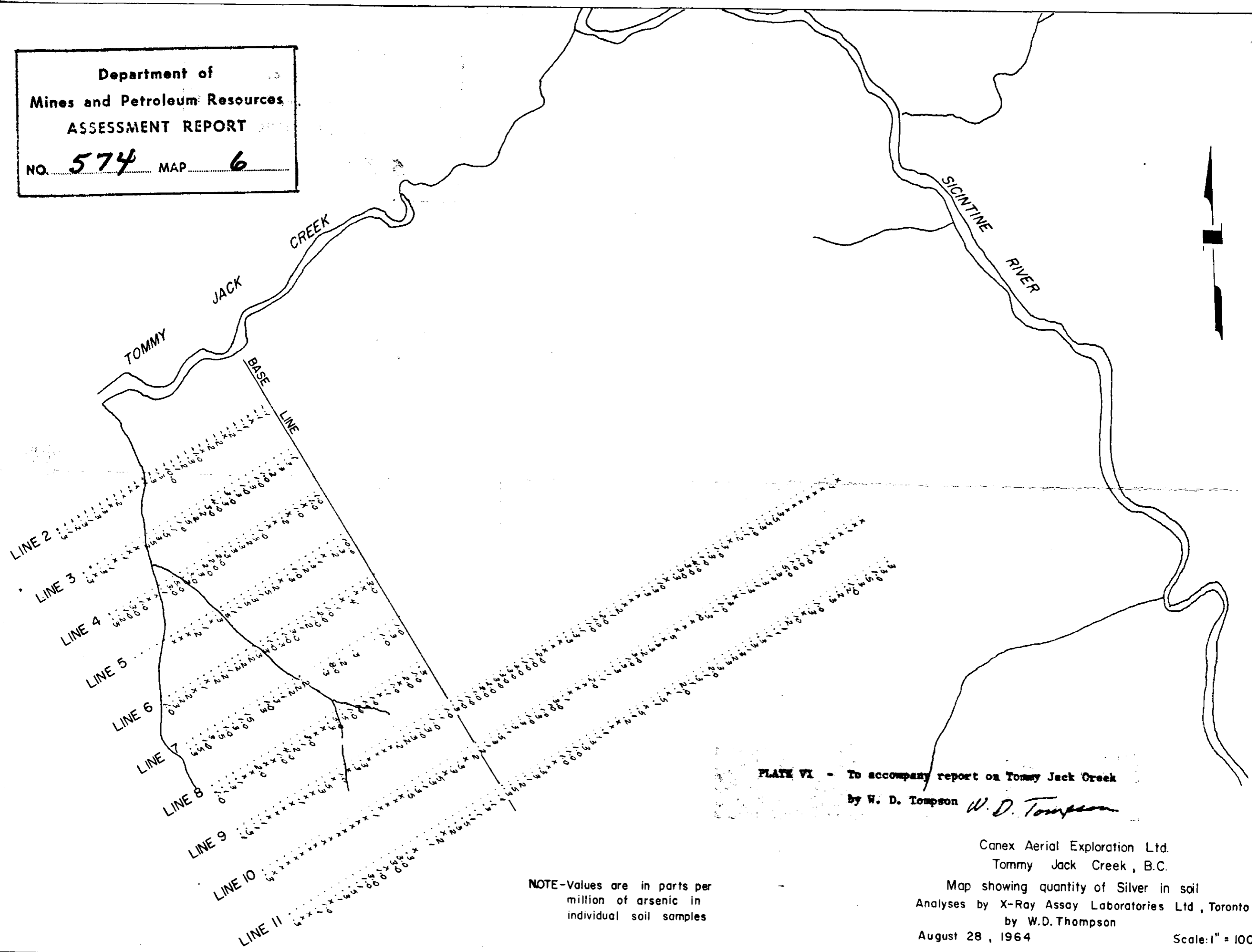


PLATE VI - To accompany report on Tommy Jack Creek
by W. D. Tompson *W. D. Tompson*

NOTE - Values are in parts per million of arsenic in individual soil samples

Canex Aerial Exploration Ltd.
Tommy Jack Creek, B.C.
Map showing quantity of Silver in soil
Analyses by X-Ray Assay Laboratories Ltd, Toronto, Ont.
by W.D. Tompson
August 28, 1964
Scale: 1" = 1000'

Department of
 Mines and Petroleum Resources
 ASSESSMENT REPORT
 NO. **574** MAP **7**

PLATE VII

Canex Aerial Exploration Ltd
 Tommy Jack Cr., B.C.
 Map Showing Claims Covered by Soil
 Sampling in Geochemical Survey.
 by W.D. Tompson
 Sept. 17, 1964 Scale: 1"=1000'

To accompany report on Tommy Jack Cr.
 by W.D. Tompson
 W.D. Tompson

Claim boundaries, solid lines
 Boundary of sample grid,
 dashed line.

