ASSESSMENT REPORT

GEOCHEMICAL SURVEY

SNOW GROUP

ATLIN MINING DIVISION

TATSAMENIE LAKE AREA, B. C.

N.T.S. 104K/Tulsequah Sheet

58° 15' N

132° 24' W GEOLOGICAL BRANCH ASSESSMENT REPOR

OWNER:

CHEVRON CANADA LIMITED

OPERATOR:

CHEVRON CANADA RESOURCES LIMITED

Authors: Mike Thicke

Ken Shannon

November, 1983

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LOCATION AND ACCESS

The SNOW 1 to 6 claim group is situated approximately 161 km southeast of Atlin, B.C. and 83 km northwest of Telegraph Creek, B.C. A helicopter provided access to the claims from a base camp at Bearskin Lake, about 7 km southeast.

CLAIMS

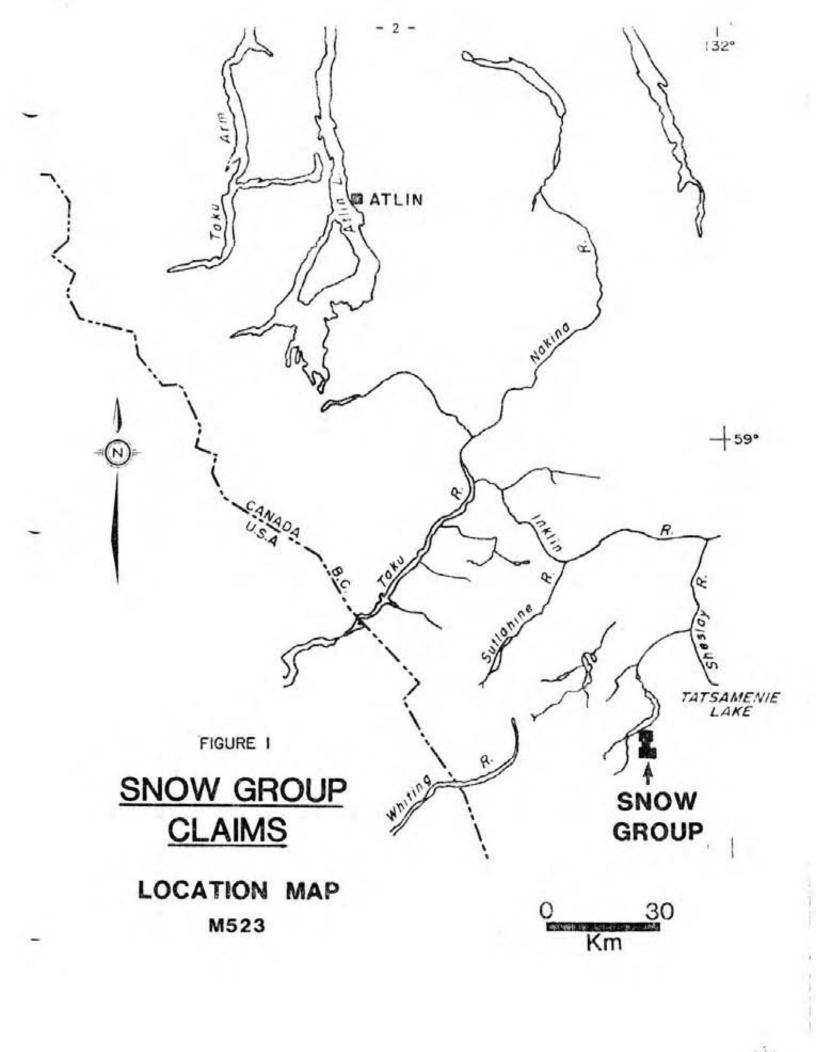
The SNOW claims were staked in September of 1982.

Claims	Record No.	Record Date	No. of Units
SNOW 1	1748	September 22, 1982	1.5
SNOW 2	1749	0	20
SNOW 3	1750		16
SNOW 4	1751		4
SNOW 5	1752		20
SNOW 6	1753		1.5

The SNOW claims cover previously unstaked ground. Chevron Canada Limited owns the claim group while Chevron Canada Resources Limited is the operator.

REGIONAL GEOLOGY

According to Souther (1971) the SNOW Group is underlain by Pre-Upper Triassic phyllites and greenstones. Pre-Upper Triassic rocks are intruded by post Middle Jurassic diorite in the northern part of the claims. South and west of the SNOW Group lie Tertiary Sloko Group rhyolite and a related north-northwest trending dyke swarm (Souther, 1972). East and west of the claims lie Permian limestone as well as Pre-Upper Triassic phyllites and greenstones. To the north of the SNOW Group is an extensive area of hydrothermally altered Pre-Upper Triassic sedimentary and volcanic rocks.



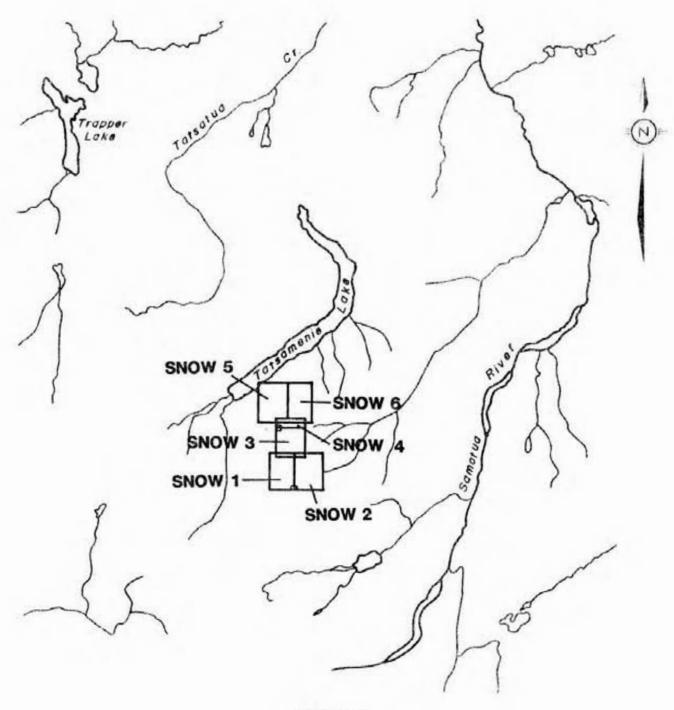
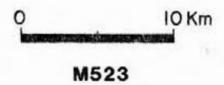


FIGURE 2

SNOW GROUP CLAIMS



GEOCHEMICAL SURVEY OF CLAIMS

Twenty-four rock samples and 207 soil and talus fine samples were collected from the SNOW Group (Figure 3). Soil development on the claims is poor and in such instances talus fines were sampled. Much of the sampling was done on SNOW 1 and 2 and SNOW 5 and 6 due to the rugged nature of the remainder of the claim group.

Rock samples were placed in heavy duty plastic rock sample bags. Soil and talus fine samples were placed in kraft wet-strength soil bags and dried.

Rock and soil samples were then sent to Chemex Labs Limited of North

Vancouver.

Soil samples were further dried and then sieved, with the -80 mesh fraction retained for analysis. Rock samples were crushed, dried and pulverized to -100 mesh. For Au determination, a fire assay - atomic absorption technique is used with the fire assay bead being dissolved in HCl and HNO₃ then analyzed by conventional atomic absorption techniques. For Ag, a mixture of HClO₄ and HNO₃ is used to digest the sample, which is followed by atomic absorption spectrophotometry. For arsenic a 1.0 gram sample is digested with a mixture of perchloric and nitric acid to strong fumes of perchloric acid. The digested solution is diluted to volume and mixed. An aliquot of the digest is acidified, reduced with Kl and mixed. A portion of the reduced solution is converted to arsine with NaBH₄ and the arsenic content determined using flameless atomic absorption. For Sb a 2.0 gm sample is digested with conc. HCl in hot water bath. The iron is reduced to Fe +2 state and the Sb complexed with 1 The complex is extracted with TOPO-MIBK and analyzed via A.A.

GEOCHEMICAL RESULTS

Gold, silver, arsenic and antimony geochemical values are plotted on Figures 4 to 7 respectively. Rock samples from the SNOW Group generally contained little Au, Ag or As mineralization. Anomalous Sb mineralization (>15.0 ppm) occurs in talus from SNOW 2 claim. Silver mineralization in soil or talus fine samples is absent, while one talus fine sample contains 410 ppb Au. Anomalous Sb mineralization (>15.0 ppm) in soil and talusfine samples is confined to the northern area of SNOW 1 claim. Sporadic Sb mineralization occurs in SNOW 2 and SNOW 5. Anomalous As mineralization (>300 ppm) occurs mostly within SNOW 1 and sporadically within SNOW 2.

CONCLUSIONS AND RECOMMENDATIONS

Fourteen man-days were spent geochemically sampling the SNOW Group.

Approximately 230 rock, soil and talus fine samples were collected mostly from SNOW 1 and 2 and SNOW 5 and 6. Gold and silver geochemical values are low whereas a zone of antimony and arsenic mineralization can be defined on the SNOW 1 claim.

It is recommended that detailed prospecting, sampling and mapping be done in the area of anomalous arsenic and antimony mineralization on SNOW 1.

REFERENCE

Souther, J.G. (1971). Geology and mineral deposits of Tulsequah
map-area, British Columbia. Geological Survey of Canada
Memoir 362, 84 p.

1983 EXPLORATION PROGRAM

SNOW GROUP

COST STATEMENT

PERIOD: August 21 to September 8.

LABOUR:

	Position		Field Days	Office Days
M. Thicke	Geologist		4	2
D. Brown	Geologist		2	
G. Walton	Geologist		1	-
F. Wohlgemuth	Assistant		1	-
R. Daniel	Assistant		2	_
M. Gray	Assistant		2	_
R. Brown	Assistant		1	-
D. Hodge	Assistant		2	
		Total	14	2
Cost per field man day	\$100.	=		\$1,400.00
Cost per office man day		=		300.00
DRAFTING:				
1 day @\$100. per day		=		100.00
CAMP COSTS:				
14 days @\$60. per day		=		840.00
GEOCHEMISTRY:				
207 soils @\$16.15 each		m		3,343.00
24 rocks @\$17.65 each		n		423.00
HELICOPTER:				
3 hrs. @\$500. per hr. i	ncluding fu	ie1		1,500.00
			TOTAL	\$7,906.00

STATEMENT OF QUALIFICATIONS

I, Mike Thicke, graduated from the University of British Columbia in May, 1980 with a B.Sc. degree in geology. Six seasons have been spent working in exploration geology in B.C., including four since graduation. I am presently employed as a geologist by Chevron Canada Resources Limited of Vancouver, B. C.

Mike Thicke

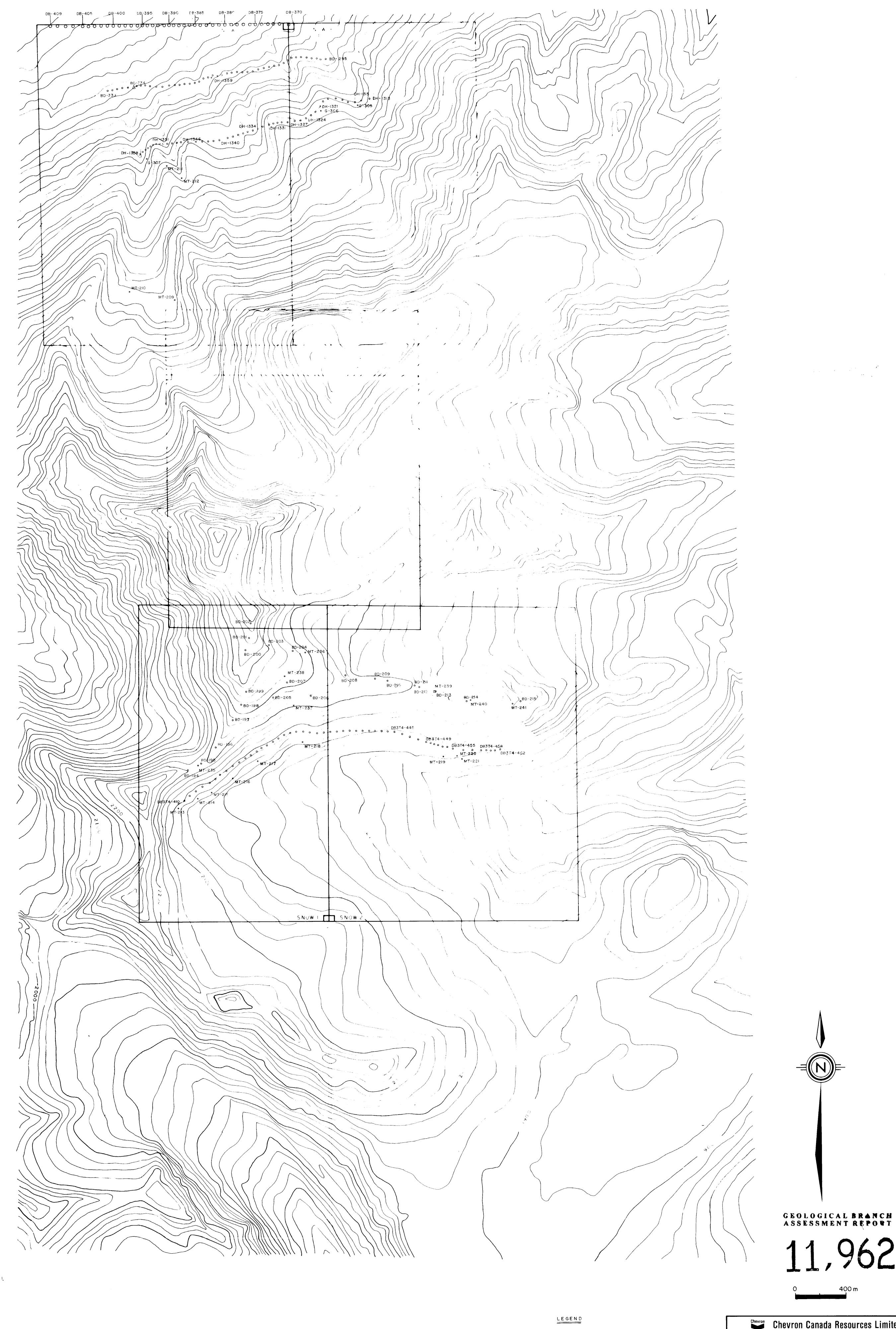
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STATEMENT OF QUALIFICATIONS

I, Ken Shannon, have worked as a geologist in B. C. on a seasonal basis since graduation from the University of British Columbia with a B.Sc. (Hons. Geology) in 1975. A M.Sc. degree was awarded from the Department of Geology at U.B.C. in May, 1982. I am employed as a geologist by Chevron Canada Resources Limited of Vancouver, B. C. Work on the SNOW claims was done under my supervision.

KEN SHANNON

Ken Shannan



Chevron Canada Resources Limited
Minerals Staff

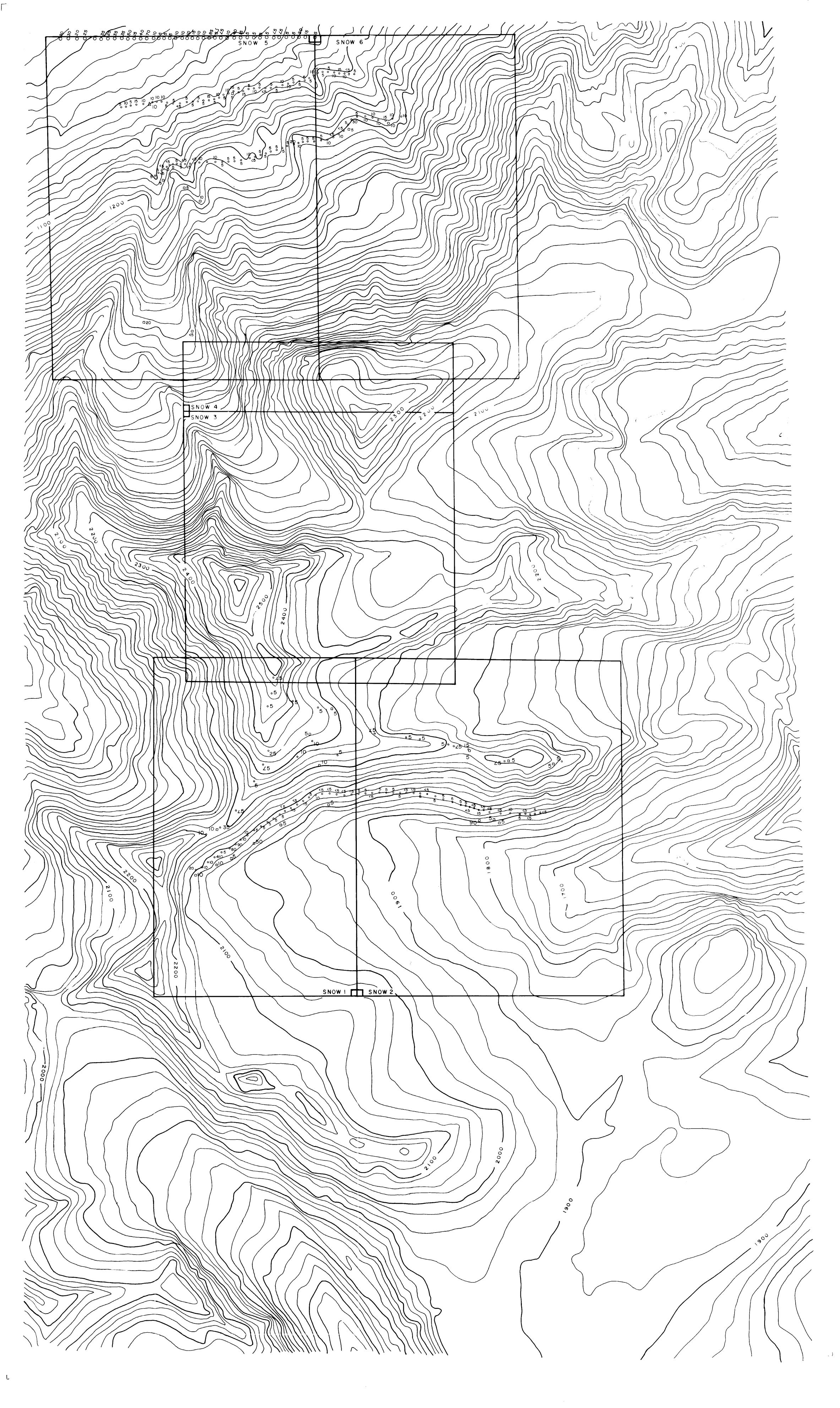
ROCKS

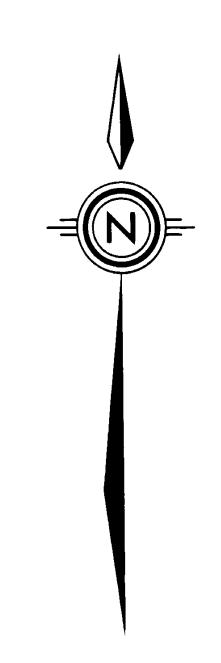
SILT SOIL

SNOW GROUP

ROCK, SOIL & SILT SAMPLE LOCATIONS

FIGURE No. 3		PROJECT No.	M523
DATE 0CT.1983	REVISIONS		SCALE 1:10,000
NTS No. I 04K			FILE No.
COMPILED BY M.T.			





GEOLOGICAL BRANCH ASSESSMENT REPORT

LEGEND ROCKS SILT SOIL Au ppb



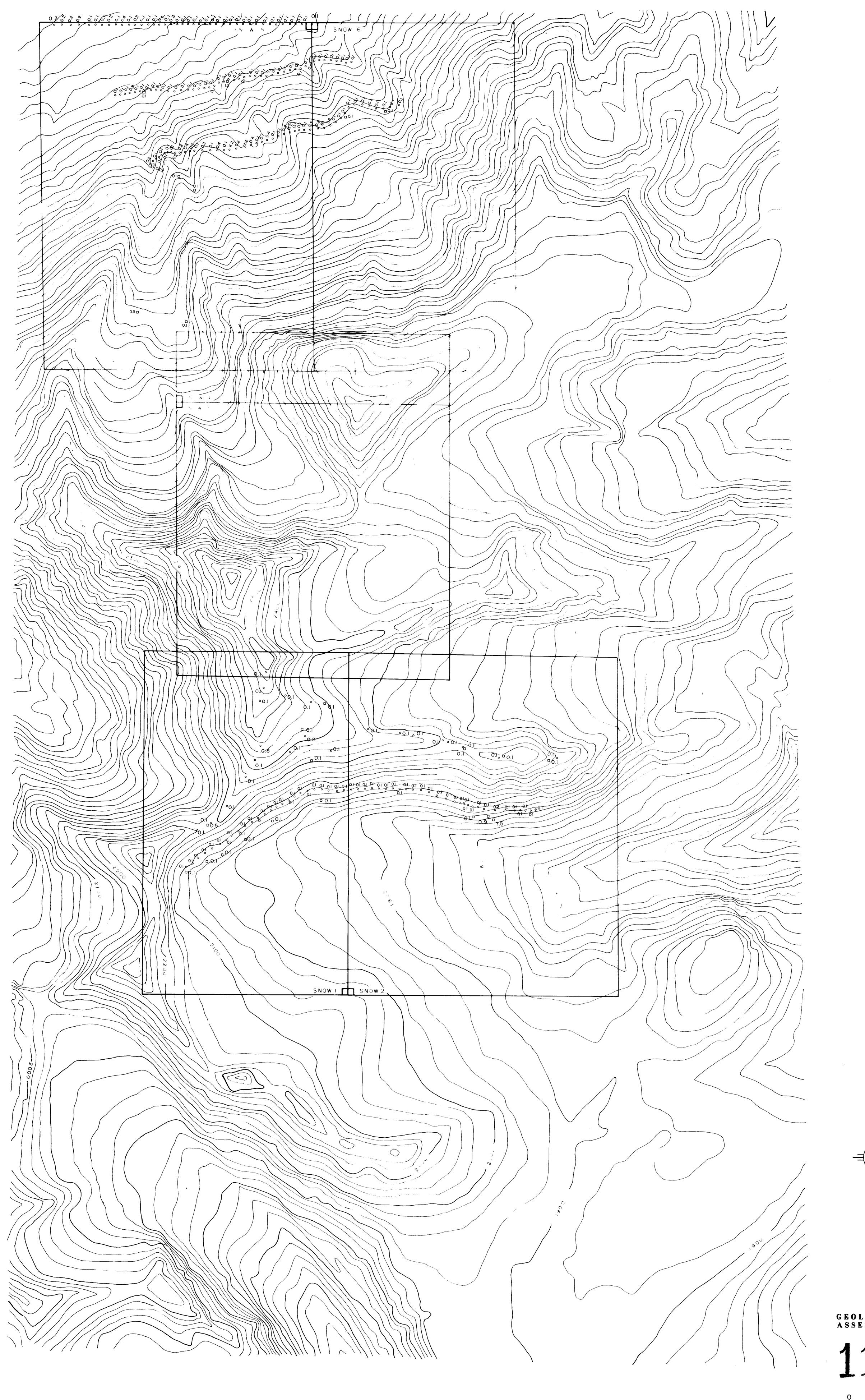
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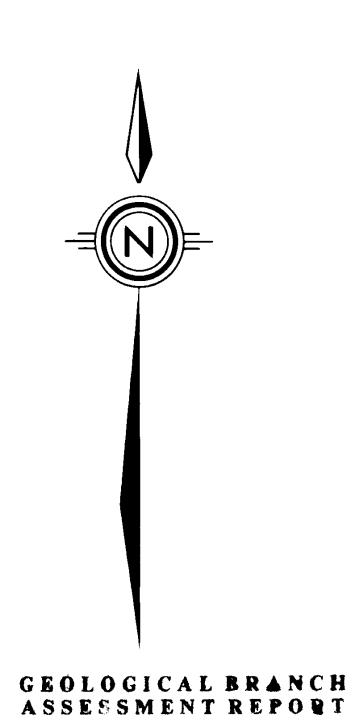
SNOW GROUP

GEOCHEMISTRY

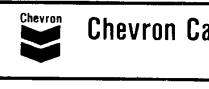
Au - ppb

FIGURE No. 4		PROJECT No.	M523
DATE 007.1983	REVISIONS		SCALE 1:10,000
NTS No. 104K			FILE No.
COMPILED BY M.T.			







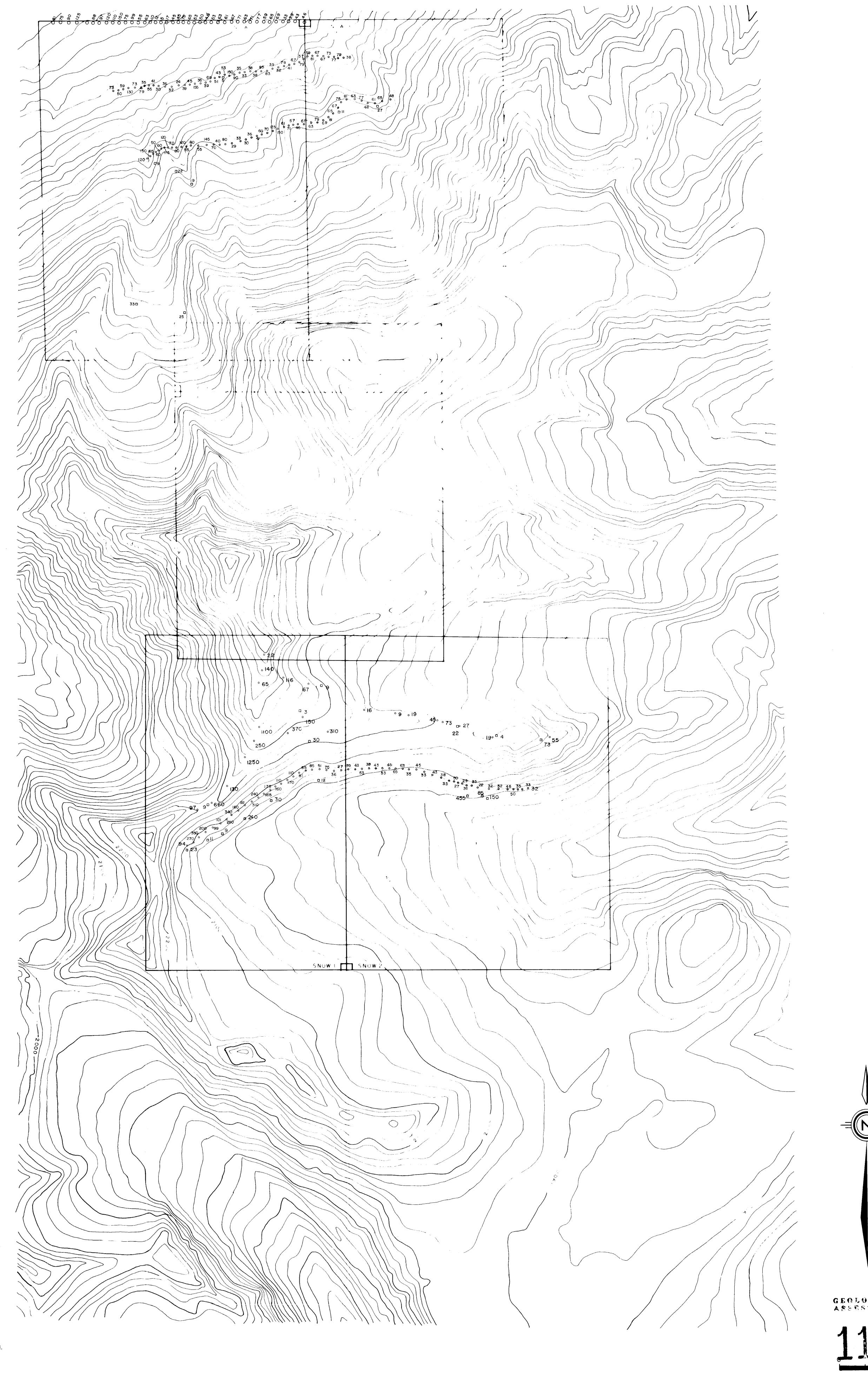


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GEOCHEMISTRY

Ag - ppm FIGURE No. 5 PROJECT No. M523 DATE **007.1983** SCALE 1:10,000 REVISIONS NTS No. 104K FILE No. COMPILED BY M.T



GEOLOGICAL BRANCH ASSESSMENT REPORT

LEGEND ROCKS SILT SOIL As ppm

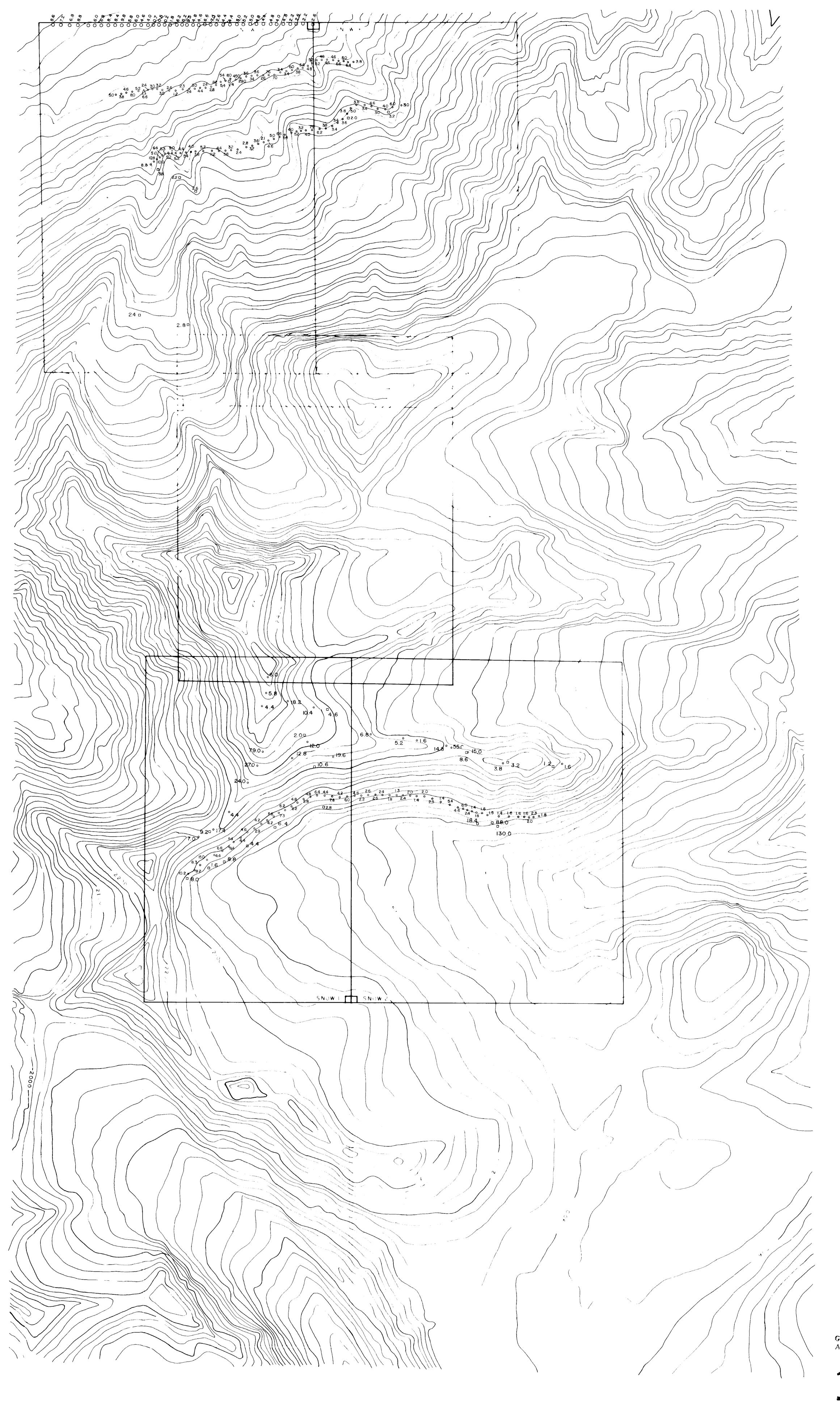


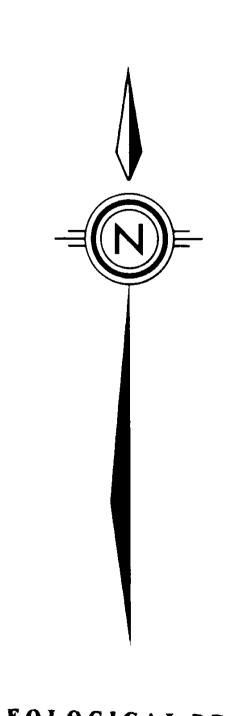
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GEOCHEMISTRY

As - ppm			
FIGURE No. 6		PROJECT No.	M523
DATE ØGT.1983	REVISIONS		SCALE 1:10,000
NTS No. 104K			FILE No.
COMPILED BY M.T			





GEOLOGICAL BRANCH ASSESSMENT REPORT

LEGEND SILT SOIL Sb ppm

ROCKS



SNOW GROUP

GEOCHEMISTRY

Sb - ppm FIGURE No. 7 PROJECT No. M523 DATE **ØGT.1983** REVISIONS SCALE 1:10,000 NTS No. 104K FILE No. COMPILED BY M.T.