



ASSESSMENT REPORT

ON

TEST PITTING PROGRAM

FOR



TS 1-29 (YA42414-442) CLAIMS

$63^{\circ}12'N$   $130^{\circ}11'W$



MAYO MINING DISTRICT -- 105-0-1

JULY - AUGUST, 1981

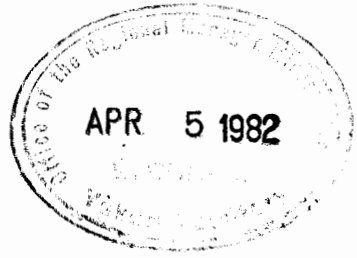
R. STROSHEIN

MARCH 1982

091004

FROM: Mining Recorder at Mayo .....

TO: Supervising Mining Recorder at Whitehorse, Y.T.



FOR ACTION ARE:

NEW APPL'N for PLACER LEASE to PROSPECT: Name:

Lease No. ....

RENEWAL APPL'N PLACER LEASE to PROSPECT: Name:

Lease No. ....

AFFIDAVIT of EXPENDITURE on PLACER LEASE. Name:

ASSIGNMENT of PLACER LEASE No. ....

From: \_\_\_\_\_ To: \_\_\_\_\_

GROUPING APPL'N UNDER SEC. 52(2) PLACER MINING ACT.

Owner: \_\_\_\_\_

DIAMOND DRILL LOGS:

Claims: \_\_\_\_\_ Claim sheet no: \_\_\_\_\_

QUARTZ ASSESSMENT REPORT:

Claims: TS 1-29 Claim sheet no. 105-0-1

Type of report: \_\_\_\_\_ Submitted by: \_\_\_\_\_

TEST PITTING HUD. BAY EXP. & DEV. Co.  
152

Cls. work performed on: \_\_\_\_\_ \$ Req. for ren. application \_\_\_\_\_

Signature

*COPY FOR YOUR FILES*

REPLY ACTION

Date Ret.

*CC GEOLOGY SECTION*

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1. INTRODUCTION:

The TS 1-29 Claims were staked during the summer of 1980 by Hudson Bay Exploration and Development Company Limited. The claims are located adjacent the Tom claims in an area of extensive overburden cover. The area was staked to ensure coverage of the possible extension of the ore horizon from the Tom claims and to test the area as a possible location for a future townsite.

It is essential to assess the mineral exploration potential of the area prior to developments involving construction of permanent buildings. To test the soil conditions a program of test pitting was carried out during July and August 1981. Depths of overburden and bedrock material are important geological consideration.

A total of thirty test pits were completed using a Cat 235 backhoe capable of excavations to a depth of 5 metres. The program was carried out under contract to Thompson Geotechnical Consultants Limited of 2668 Palmerston Avenue, West Vancouver, B. C. V7V 2W6.

Thompson Geotechnical provided the supervision of the program and a member of the engineering staff was on site to conduct detail logging of soil and bedrock conditions encountered in each pit.

2. LOCATION AND ACCESS:

The TS 1-29 claims are located in the Macmillan Pass area of the Yukon Territory. The claim group is approximately 148 miles north of Ross River along the North Canal Road. Figure 2.

The North Canal Road provides access to the eastern portion of the property. The claims boundard is within one kilometer of the Macmillan Pass airstrip north of the Macmillan River.

3. CLAIM OWNERSHIP: Figure 3

The claims are wholly owned by Hudson Bay Exploration and Development Company Limited. The group is comprised of 29 claims as follows:

TS 1-29                      YA 42414 - 42442

4. TEST PITTING PROGRAM RESULTS:

The locations of the test pits are indicated on Figure 1. Detail logs of test pits are included in Appendix I.

The results of the program indicates that the area is commonly covered with overburden depths greater than five meters. Bedrock encountered in Pits 81-2, 5 & 6 is carbonaceous argillite which is equivalent to the hanging wall unit 3b argillites on the Tom property. The sand banded

siltstone located in test pit 81-9 represents the footwall units of 3a or possibly unit 1 on the Tom property.

Permafrost has been encountered at shallow depths at higher elevations in the area.

5. CONCLUSIONS AND RECOMMENDATIONS:

The relative depths of overburden combined with the presence of marshy ground in the lower areas and permafrost in the upper areas makes the use of geochemical exploration techniques ineffective.

The bedrock encountered in the several test pits suggest that the favourable ore horizon from the Tom property is located on the property.

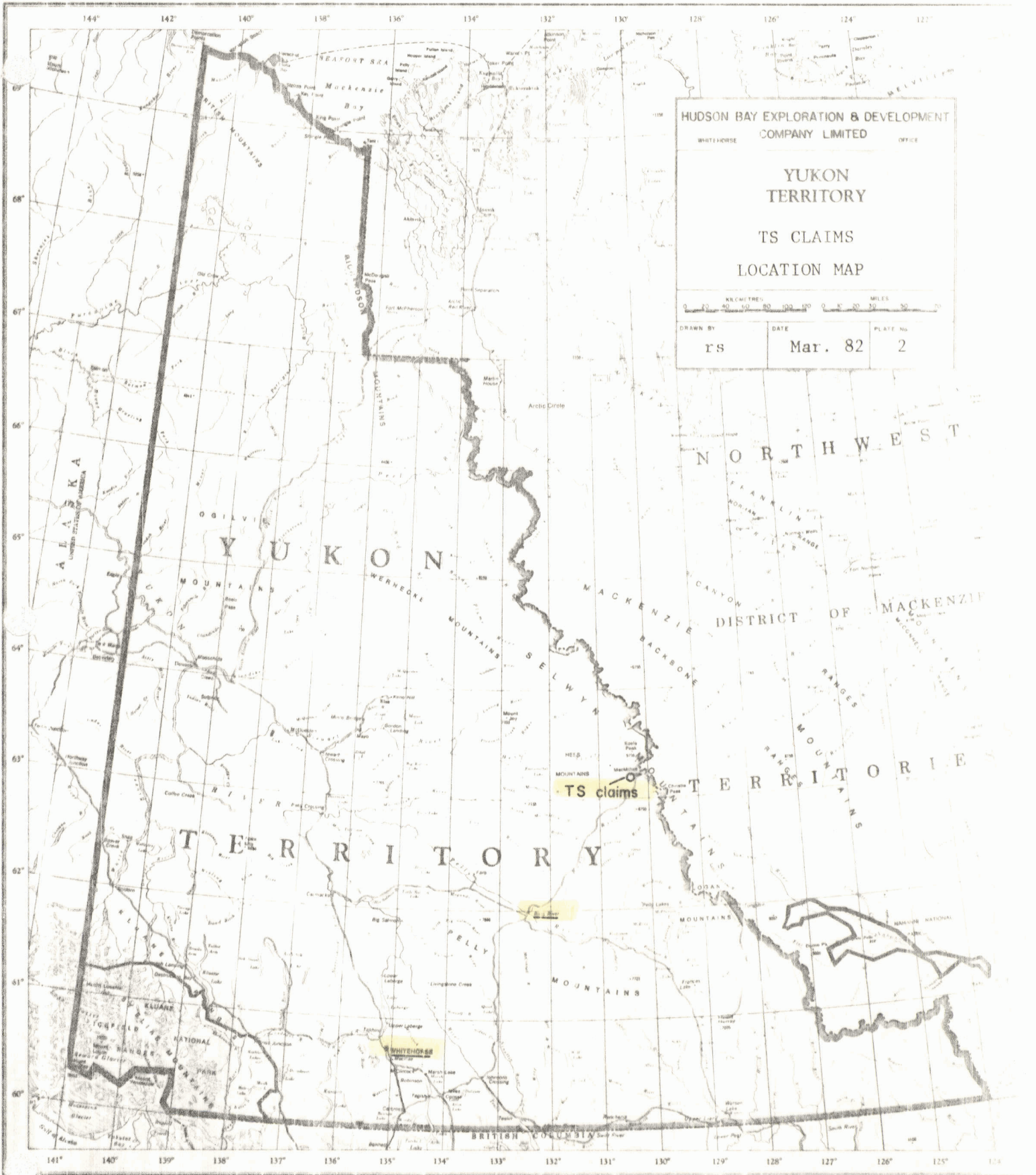
It is recommended to test various geophysical techniques in order to further explore the property. Surveys including magnetic and electromagnetic techniques could be useful exploration tools.

A magnetic survey could provide aid in structural interpretations and possibly locate high grade "feeder zones" if pyrrhotite is present.

It has also been suggested that a pulse EM survey may discriminate sulphide conductors in areas of generally carbonaceous surrounding rocks.



R. Stroshein,  
Senior Exploration  
Geologist.



HUDSON BAY EXPLORATION & DEVELOPMENT  
 COMPANY LIMITED

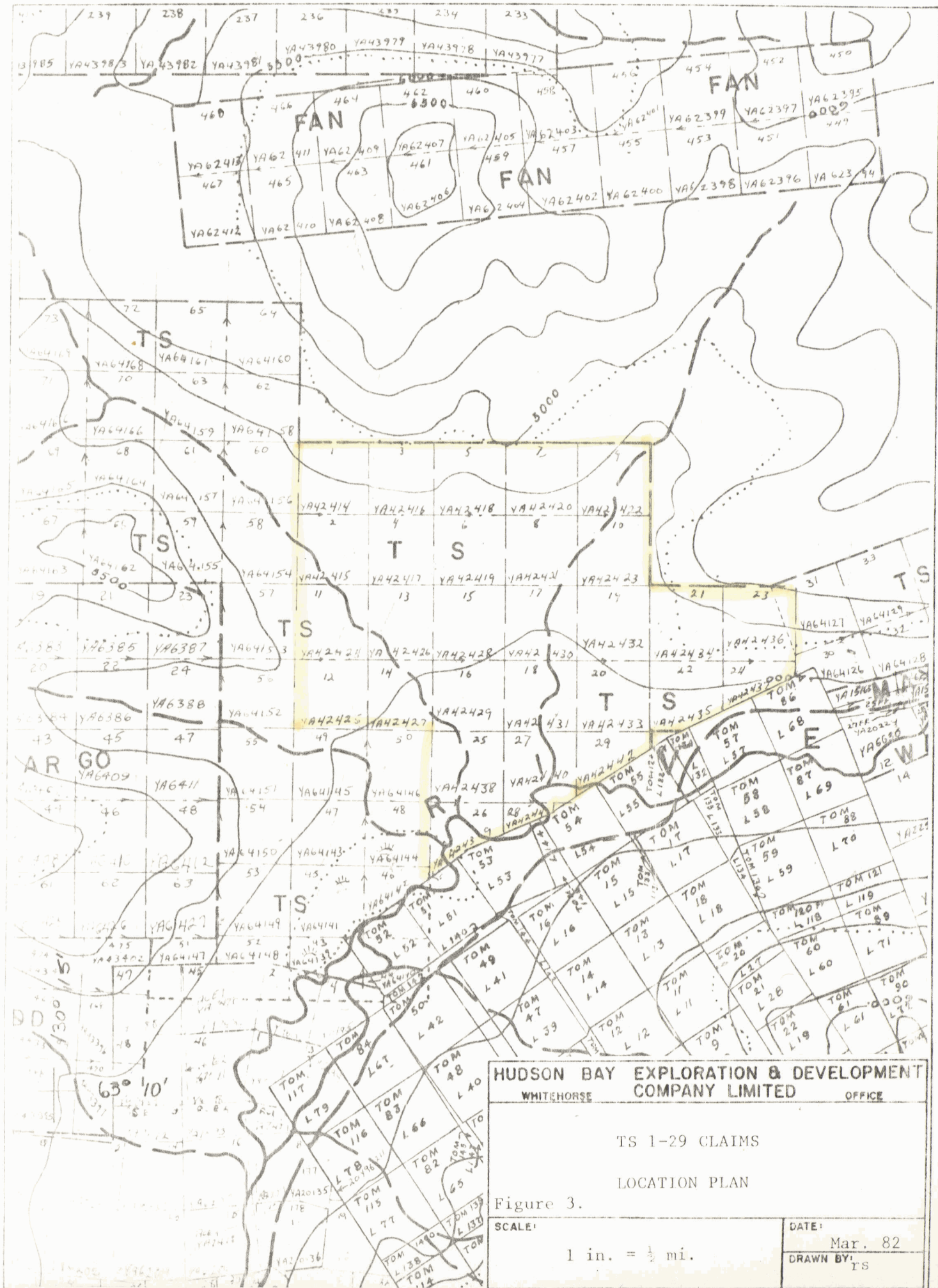
WHITEHORSE OFFICE

**YUKON  
 TERRITORY**

TS CLAIMS  
 LOCATION MAP

KILOMETRES 0 20 40 60 80 100 120  
 MILES 0 10 20 30 40

DRAWN BY	DATE	PLATE No.
rs	Mar. 82	2



**HUDSON BAY EXPLORATION & DEVELOPMENT COMPANY LIMITED**  
 WHITEHORSE OFFICE

TS 1-29 CLAIMS  
 LOCATION PLAN

Figure 3.

SCALE:

1 in. = 1/2 mi.

DATE:

Mar. 82

DRAWN BY:

rs

APPENDIX I

DETAIL LOGS

TEST PITS 81-1 - 81-30

# RECORD OF TEST PIT NO.81-1

**LOCATION:** See Figure

**DATE OF EXCAVATION:** August 15, 1981

**COORDINATES:** 5+00 N , 20+00 E

**METHOD OF EXCAVATION:** Cat 235 Backhoe

**GRID SYSTEM/DATUM:** Local (Townsite) / Geodetic

SOIL PROFILE				IN SITU TESTS			SAMPLES			
ELEV. DEPTH (m)	DESCRIPTION	STRAT. PLOT	GROUND WATER	SCALE	LOCATION	TEST	TEST RESULTS	NO. & LOC.	TYPE	LAB TESTING
	<b>GROUND SURFACE</b>			0.0						
0.0	Moss cover.									
0.2	Loose to compact, brown, SILT, SAND AND GRAVEL with some cobbles. Larger particles are rounded and hard. Smaller particles are more angular and flaky.									
1.5										
	Loose to compact, black, weathered, med. to crs. SAND AND GRAVEL WITH COBBLES and occ. small bldrs. Some silty zones.									
4.6										
	END OF TEST PIT.									

**VERTICAL SCALE:** 1:40  
**PROJ. NO.** 80008    **DATE:** Mar/82

NOTES

- 1) No apparent sorting. No distinct stratification (ablation deposits).









## RECORD OF TEST PIT NO.81-5

LOCATION: See Figure

DATE OF EXCAVATION: August 15, 1981

COORDINATES: 5+00 N , 15+00 E

METHOD OF EXCAVATION: Cat 235 Backhoe

GRID SYSTEM/DATUM: Local (Townsite) / Geodetic

SOIL PROFILE				IN SITU TESTS			SAMPLES			
ELEV. DEPTH (m)	DESCRIPTION	STRAT. PLOT	GROUND WATER	SCALE	LOCATION	TEST	TEST RESULTS	NO. & LOC.	TYPE	LAB TESTING
	<b>GROUND SURFACE</b>			0.0						
0.0	Moss and topsoil									
0.2	Firm, tan SILT with occ. large boulders			-						
0.7	<p style="text-align: center;">North Side</p> Loose to compact, brown, SILT SAND GRAVEL COBBLES AND BOULDERS. Unsorted.			-1.0						
	<p style="text-align: center;">South Side</p> Loose to compact, black, fine SAND with occ. silt lens. Stratified.			-2.0						
2.5	BEDROCK. Very hard, unweathered.		▼	-						
				-3.0						
				-						
				-4.0						
				-						
				-5.0						
				-						
				-6.0						

VERTICAL SCALE: 1:40

PROJ. NO. 80008 DATE: Mar/82

NOTES

- 1) Moderate seepage at 2.5 m.
- 2) North side of pit (toe of slope) appears to lie in ablation deposits. South side lies in Macmillan River alluvium.











# RECORD OF TEST PIT NO.81-11

**LOCATION:** See Figure

**DATE OF EXCAVATION:** August 16, 1981

**COORDINATES:** 15+00 N , 10+00 E

**METHOD OF EXCAVATION:** Cat 235 Backhoe

**GRID SYSTEM/DATUM:** Local (Townsite) / Geodetic

SOIL PROFILE					IN SITU TESTS			SAMPLES		
ELEV. DEPTH (m)	DESCRIPTION	STRAT. PLOT	GROUND WATER	SCALE	LOCATION	TEST	TEST RESULTS	NO. & LOC.	TYPE	LAB TESTING
	GROUND SURFACE			0.0						
0.1	Moss cover			-						
	PERMAFROST. Frozen, grey silt with gravel. High ice content.			-1.0						
				-						
				-2.0						
				-						
				-3.0						
				-						
				-4.0						
				-						
				-5.0						
				-						
				-6.0						

**VERTICAL SCALE:** 1:40

**PROJ. NO.** 80008 **DATE:** Mar/82

**NOTES**

# RECORD OF TEST PIT NO.81-12

LOCATION: See Figure

DATE OF EXCAVATION: August 17, 1981

COORDINATES: 12+50 N , 10+00 E

METHOD OF EXCAVATION: Cat 235 Backhoe

GRID SYSTEM/DATUM: Local (Townsite) / Geodetic

SOIL PROFILE				IN SITU TESTS			SAMPLES				
ELEV. DEPTH (m)	DESCRIPTION	STRAT. PLOT	GROUND WATER	SCALE	LOCATION	TEST	TEST RESULTS	NO. & LOC.	TYPE	LAB TESTING	
	GROUND SURFACE			0.0							
0.0	Moss and topsoil										
0.3	Compact, grey, SILT SAND GRAVEL and occ. cobbles. Particles are very angular, argillites. Larger particles are very weak and break down with handling.			1							
				1.0							
				2.0					1	Bg	Gr. Size
				3.0							
3.2	BEDROCK. Hard intact, grey black argillite.			1							
3.5	END OF TEST PIT			4.0							
				5.0							
				6.0							

VERTICAL SCALE: 1:40

PROJ. NO. 80008 DATE: Mar/82

**NOTES**

- 1) No apparent sorting (Ablation deposits).
- 2) Low to medium frost susceptibility.

## RECORD OF TEST PIT NO.81-13

**LOCATION:** See Figure                      **DATE OF EXCAVATION:** August 17, 1981  
**COORDINATES:** 10+00 N , 10+00 E                      **METHOD OF EXCAVATION:** Cat 235 Backhoe  
**GRID SYSTEM/DATUM:** Local (Townsite) / Geodetic

SOIL PROFILE					IN SITU TESTS			SAMPLES		
ELEV. DEPTH (m)	DESCRIPTION	STRAT. PLOT	GROUND WATER	SCALE	LOCATION	TEST	TEST RESULTS	NO. & LOC.	TYPE	LAB TESTING
	<b>GROUND SURFACE</b>			0.0						
0.0	Moss and topsoil									
0.2	Compact, brown, med. and crs. SAND AND FINE GRAVEL. Unsorted, clay coated particles. Cohesive.			1						
				1.0						
1.8				2.0						
	Compact, black, clean fine SAND with occ. tan silt lenses. Oblique stratification.			3.0						
3.5				4.0						
	Compact, brown, SAND AND GRAVEL with occ. cobbles.			5.0						
4.7				6.0						
	END OF TEST PIT									

VERTICAL SCALE: 1:40

PROJ. NO. 80008    DATE: Mar/82

**NOTES**

- 1) Local sorting and stratification (Ablation deposits).

# RECORD OF TEST PIT NO.81-14

LOCATION: See Figure

DATE OF EXCAVATION: August 17, 1981

COORDINATES: 17+50 N , 10+00 E

METHOD OF EXCAVATION: Cat 235 Backhoe

GRID SYSTEM/DATUM: Local (Townsite) / Geodetic

SOIL PROFILE			IN SITU TESTS			SAMPLES			
ELEV. DEPTH (m)	DESCRIPTION	STRAT. PLOT	GROUND WATER	SCALE	LOCATION	TEST RESULTS	NO. & LOC.	TYPE	LAB TESTING
	<b>GROUND SURFACE</b>			0.0					
0.0	Moss Cover			-					
0.3	Compact, brown, SILT SAND GRAVEL with occ. cobbles. Highly weathered, frost susceptible.			-1.0					
				-					
					-2.0				
					-				
2.7	Grey, silty, med. and crs. SAND AND GRAVEL. Cold, wet. Becoming siltier with depth.			-3.0					
				-					
					-4.0				
					-				
4.7	END OF TEST PIT			-5.0					
				-					
				-6.0					

VERTICAL SCALE: 1:40

PROJ. NO. 80008 DATE: Mar/82

**NOTES**

- 1) Seepage at 2.6 m depth.
- 2) Faint stratification parallel to slope (Colluvium or slopewash deposits).



# RECORD OF TEST PIT NO.81-16

LOCATION: See Figure

DATE OF EXCAVATION: August 17, 1981

COORDINATES: 5+00 N , 7+50 E

METHOD OF EXCAVATION: Cat 235 Backhoe

GRID SYSTEM/DATUM: Local (Townsite) / Geodetic

SOIL PROFILE				IN SITU TESTS			SAMPLES			
ELEV. DEPTH (m)	DESCRIPTION	STRAT. PLOT	GROUND WATER	SCALE	LOCATION	TEST RESULTS	NO. & LOC.	TYPE	LAB TESTING	
	<b>GROUND SURFACE</b>			0.0						
0.0	Moss and topsoil									
0.2	Clean, black, crs. SAND AND GRAVEL Stratified. Rounded particles.			-1.0						
					-2.0					
2.2	Compact, black SAND GRAVEL AND COBBLES with trace silt.			-3.0						
					-4.0					
4.8	END OF TEST PIT		▼	-5.0						
				-6.0						

VERTICAL SCALE: 1:40

PROJ. NO. 80008 DATE: Mar/82

- NOTES**
- 1) Seepage at 4.8 m.
  - 2) Distinct sorting and stratification (Outwash or alluvial deposits)



## RECORD OF TEST PIT NO.81-18

LOCATION: See Figure

DATE OF EXCAVATION: August 17, 1981

COORDINATES: 10+00 N , 7+50 E

METHOD OF EXCAVATION: Cat 235 Backhoe

GRID SYSTEM/DATUM: Local (Townsite) / Geodetic

SOIL PROFILE				IN SITU TESTS			SAMPLES			
ELEV. DEPTH (m)	DESCRIPTION	STRAT. PLOT	GROUND WATER	SCALE	LOCATION	TEST	TEST RESULTS	NO. & LOC.	TYPE	LAB TESTING
	<b>GROUND SURFACE</b>			0.0						
0.0	Moss cover			-						
0.3	Loose to compact, brown and black, clean SAND AND FINE GRAVEL. Minor stratification evident.			-1.0						
1.3	Compact, grey brown, SAND GRAVEL AND COBBLES. Rounded granitic particles.			-						
				-2.0						
				-	-3.0					
				-	-4.0					
4.2	END OF TEST PIT			-						
				-5.0						
				-						
				-6.0						

VERTICAL SCALE: 1:40

PROJ. NO. 80008 DATE: Mar/82

**NOTES**

- 1) Deposit comprised primarily of clean, hard granitic particles. Distinct sorting and stratification (outwash deposits).

# RECORD OF TEST PIT NO. 81-19

LOCATION: See Figure

DATE OF EXCAVATION: August 17, 1981

COORDINATES: 12+50 N , 7+50 E

METHOD OF EXCAVATION: Cat 235 Backhoe

GRID SYSTEM/DATUM: Local (Townsite) / Geodetic

SOIL PROFILE				IN SITU TESTS			SAMPLES			
ELEV. DEPTH (m)	DESCRIPTION	STRAT. PLOT	GROUND WATER	SCALE	LOCATION	TEST	TEST RESULTS	NO. & LOC.	TYPE	LAB TESTING
	<b>GROUND SURFACE</b>									
0.0	Moss cover			0.0						
0.2	Compact, brown. med. and crs. SAND, GRAVEL and some cobbles. Weathered particles. Tr. silt.			-						
				-1.0						
1.2	Compact, red brown, clean, med. and crs. SAND, GRAVEL and some cobbles.			-						
				-2.0						
2.3	Black clean med. SAND.			-						
				-3.0						
				-						
				-4.0						
4.2	END OF TEST PIT			-						
				-5.0						
				-						
				-6.0						

VERTICAL SCALE: 1:40

PROJ. NO. 80008 DATE: Mar/82

**NOTES**

1) Distinct sorting and stratification (outwash deposits).





# RECORD OF TEST PIT NO. 81-22

LOCATION: See Figure

DATE OF EXCAVATION: August 17, 1981

COORDINATES: 12+50 N , 5+00 E

METHOD OF EXCAVATION: Cat 235 Backhoe

GRID SYSTEM/DATUM: Local (Townsite) / Geodetic

SOIL PROFILE				IN SITU TESTS			SAMPLES			
ELEV. DEPTH (m)	DESCRIPTION	STRAT. PLOT	GROUND WATER	SCALE	LOCATION	TEST	TEST RESULTS	NO. & LOC.	TYPE	LAB TESTING
	GROUND SURFACE			0.0						
0.0	Moss cover.									
0.3	Soft, grey brown, SILT. Moist to wet.			-						
0.4	PERMAFROST. Frozen grey SILT with gravel. High ice content.			-						
				1.0						
				-						
				2.0						
				-						
				3.0						
				-						
				4.0						
				-						
				5.0						
				-						
				6.0						

VERTICAL SCALE: 1:40

PROJ. NO. 80008 DATE: Mar/82

**THOMPSON GEOTECHNICAL**

NOTES



# RECORD OF TEST PIT NO.81-24

LOCATION: See Figure

DATE OF EXCAVATION: August 18, 1981

COORDINATES: 6+25 N , 6+25 E

METHOD OF EXCAVATION: Cat 235 Backhoe

GRID SYSTEM/DATUM: Local (Townsite) / Geodetic

SOIL PROFILE				IN SITU TESTS			SAMPLES			
ELEV. DEPTH (m)	DESCRIPTION	STRAT. PLOT	GROUND WATER	SCALE	LOCATION	TEST	TEST RESULTS	NO. & LOC.	TYPE	LAB TESTING
	GROUND SURFACE			0.0						
0.0	Moss and topsoil.			-						
0.6	Grey, med. and crs. SAND with some fine gravel. Med. clean. Sorted and stratified parallel to slope.			-1.0						
				-						
2.2	Black, fine and med., SAND with gravel and occ. cobbles. Oxidized lens at 2.4 to 2.5 m.		▼ }	-						
				-3.0						
				-						
3.6	Brown SAND. Oxidized and partly cemented.			-						
3.8	Compact, black, SILT and GRAVEL. Gravel particles are angular and argillitic.			-4.0						
				-						
				-5.0						
5.4	END OF TEST PIT			-						
				-6.0						

VERTICAL SCALE: 1:40  
 PROJ. NO. 80008 DATE: Mar/82

NOTES

- 1) Moderate seepage from perched water table at 2.4 m depth.
- 2) Distinct sorting and stratification parallel to slope (outwash deposits).

# RECORD OF TEST PIT NO.81-25

LOCATION: See Figure

DATE OF EXCAVATION: August 18, 1981

COORDINATES: 7+50 N , 5+00 E

METHOD OF EXCAVATION: Cat 235 Backhoe

GRID SYSTEM/DATUM: Local (Townsite) / Geodetic

SOIL PROFILE				IN SITU TESTS			SAMPLES		
ELEV. DEPTH (m)	DESCRIPTION	STRAT. PLOT	GROUND WATER	SCALE	LOCATION	TEST RESULTS	NO. & LOC.	TYPE	LAB TESTING
	GROUND SURFACE			0.0					
0.0	Brown silty TOPSOIL								
0.45	Very loose, grey and brown, SILT SAND AND GRAVEL. Occ. pockets of black, fine sand. Particles are weathered, angular and sub-angular.								
				-1.0					
					-2.0				
2.2	Loose, grey, silty GRAVEL with sand. Angular particles.								
3.0	END OF TEST PIT			-3.0					
					-4.0				
					-5.0				
					-6.0				

VERTICAL SCALE: 1:40  
 PROJ. NO. 80008 DATE: Mar/82

NOTES  
 1) Heavy seepage at 1.6 depth.





# RECORD OF TEST PIT NO.81-28

LOCATION: See Figure

DATE OF EXCAVATION: August 18, 1981

COORDINATES: 6+25 N , 3+75 E

METHOD OF EXCAVATION: Cat 235 Backhoe

GRID SYSTEM/DATUM: Local (Townsite) / Geodetic

SOIL PROFILE				IN SITU TESTS			SAMPLES		
ELEV. DEPTH (m)	DESCRIPTION	STRAT. PLOT	GROUND WATER	SCALE	LOCATION	TEST RESULTS	NO. & LOC.	TYPE	LAB TESTING
	<b>GROUND SURFACE</b>			0.0					
0.0	Moss cover.								
0.2	Clean, grown, fine, med. and crs. SAND AND FINE GRAVEL. Interlayered. Horizontal stratification.			-					
				-1.0					
1.1	PERMAFROST. Frozen, tan silt with gravel. Till like. High ice content.			-					
				-2.0					
1.8	END OF TEST PIT.			-					
				-3.0					
				-					
				-4.0					
				-					
				-5.0					
				-					
				-6.0					

VERTICAL SCALE: 1:40

PROJ. NO. 80008 DATE: Mar/82

**NOTES**

- 1) Surficial materials may be related to surficial materials encountered in T.P. 81-27.





## APPENDIX II

The expenditures to conduct the test pitting program prior to August 25, 1981, totalled \$12,125.09.

This figure was provided by Mr. Brian Thompson of Thompson Geotechnical Consultants Limited in the attached letter dated September 29, 1981.

September 29, 1981

Hudson Bay Exploration and Development Co. Ltd.  
100 - 10 Burns Road  
Whitehorse, Yukon

ATTENTION: Mr. Robert Stroshein  
Senior Geologist

RE: CLAIMS ASSESSMENT WORK  
T.S. CLAIM GROUP  
MACMILLAN PASS, YUKON

Dear Sir:

Further to our discussion of Sept. 8, 1981, we have prepared a summary of the costs involved in engineering studies on the T. S. Claim Group in Macmillan Pass. It is understood that these costs will be considered for a claims assessment report for the period August 25, 1980 to August 25, 1981.

STUDY PROGRAM

The work to date on the T.S. Claims has involved an engineering study to evaluate the feasibility of development of the area for a townsite for the Tom Project. The work has included detailed ground reconnaissance and mapping of surficial conditions, topographic mapping from aerial photography and an extensive test pitting program to evaluate soil and bedrock conditions. The detailed reconnaissance and topographic mapping was carried out in the fall of 1980 and the test pitting program and additional surface mapping was carried out in the summer of 1981.

The test pitting program included machine excavation of some 30 test pits to depths of up to 6 meters. The soil and bedrock conditions encountered in each test pit were logged in detail by a member of our engineering staff and representative samples were obtained for laboratory classification and testing purposes. Where bedrock was encountered, additional samples were obtained for further evaluation by Hudson Bay geologists.

A final report on the work in the proposed townsite will be submitted in early 1982 as part of a comprehensive engineering report on various geotechnical aspects of the Tom Project.

STUDY COSTS

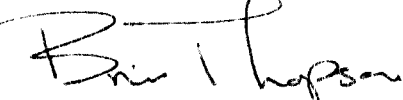
The costs of the above work, for the 1980-81 period are summarized following. The subtotals shown for the engineering reconnaissance and test pit programs include all of the costs incurred in mobilization to and from the site and the costs of work on the site itself. The subtotal shown for the topographic mapping program includes the costs for mapping only. The costs incurred in the provision of ground control and obtaining aerial photos are not included, as this work was carried out prior to August 25, 1980.

. Preliminary Engineering Reconnaissance and Surface Mapping	\$ 840.00
. Topographic Mapping	\$ 1838.33
. Test Pitting and Detailed Surface Mapping	<u>\$12,125.09</u>
TOTAL	\$14,803.42

We trust the above provides the information you require at this time. Should you have any questions or require further details, please do not hesitate to contact us.

Sincerely.

THOMPSON GEOTECHNICAL CONSULTANTS LTD.



Brian E. Thompson, P. Eng.

BET/cs

80008

APPENDIX III

ROBERT W. STROSHEIN

ADDRESS           181 Alsek,  
Whitehorse, Yukon Territory.  
Y1A 4L8

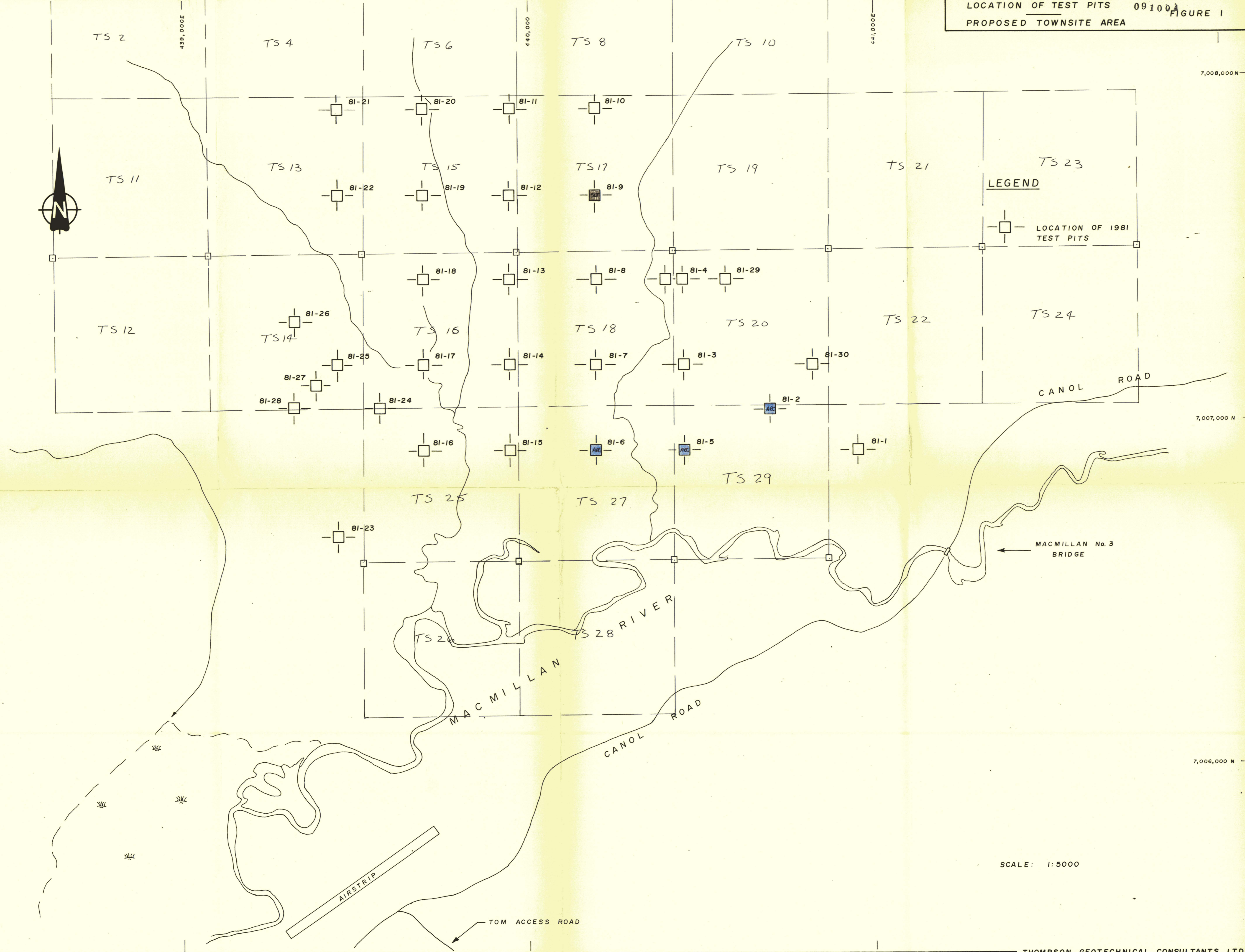
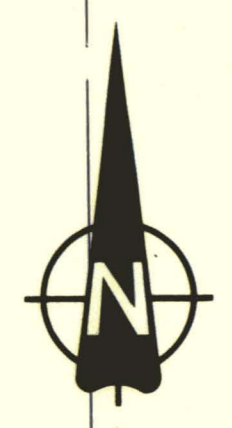
EDUCATION:       B. Sc. (Geological Engineering) from  
University of Saskatchewan  
Graduated in 1973

EMPLOYMENT:      1973 - 1982 Hudson Bay Exploration & Development Co. Ltd.

                  Flin Flon Office 1973 - 1975  
                  Drill Geologist - field supervisor of diamond  
                  drill projects Northern Manitoba and Saskatchewan.

                  Whitehorse Office  
                  Project Geologist 1975-1980 - field supervisor of  
                  geological mapping, geophysical, geochemical and  
                  prospecting programs in the Yukon Territory.  
                  Included report preparation and assessment.

Senior Exploration Geologist - 1981 - planning,  
                  monitoring and assessing exploration projects  
                  conducted in the Yukon Territory.



SCALE: 1:5000