

FILE COPY

GEOTECHNICAL REPORT

PROPOSED DAWSON CITY AIRPORT AND ACCESS ROAD

DAWSON CITY, YUKON

FOR

YUKON COMMUNITY AND TRANSPORTATION SERVICES

PA 2441

FEBRUARY 1988



KLOHN LEONOFF
CONSULTING ENGINEERS



KLOHN LEONOFF YUKON LTD.

CONSULTING ENGINEERS

OUR FILE: PA 2441.01.01

February 17, 1988

Yukon Community and Transportation Services
Box 2703
Whitehorse, Yukon
Y1A 2C6

Mr. R. Walsh, P.Eng.

Geotechnical Investigation
Proposed Dawson City Airport and Access Road
Dawson City, Yukon

Dear Sir:

Following is our report which describes bedrock and soil conditions and gives our recommendations for construction of the above captioned facility.

Should you have any questions, please contact us.

Yours very truly,

KLOHN LEONOFF LTD.

R.J. LORIMER, P. Eng.
Project Manager

KRG/RJL/sh
Enclosure

GEOTECHNICAL REPORT

PROPOSED DAWSON CITY AIRPORT AND ACCESS ROAD

DAWSON CITY, YUKON

for

YUKON COMMUNITY AND TRANSPORTATION SERVICES

PA 2441

February 1988

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1.0 INTRODUCTION

The Yukon Community and Transportation Services Department is planning to construct an access road to the proposed new Dawson City Airport. The new airport is located in the Klondike Hills about 18 km southwest of Dawson City. The new access road will start at the Callison subdivision and will be approximately 13 km in length.

Contour plans (2 m interval) showing the roadway alignment were provided along the route at a scale of 1:2000. The drawings showed the center lane chainage every 100 m. Most of the proposed centerline was located along or adjacent to an existing trail. Towards the north end, the alignment diverted away from the existing trail for a distance of approximately 1.3 km. In this section, an alternative alignment along the existing trail was also investigated at the request of the Department.

The purpose of this investigation was to conduct a field soils investigation, basic laboratory testing and engineering analyses to assess the feasibility of the proposed airport site and access road.

Authorization for this investigation and report was given in response to our proposal dated November 2, 1987.

2.0 FIELD INVESTIGATION

A track mounted CME 750 auger drill was mobilized to the site for the drilling investigation. Test hole locations were laid out in the field by a senior engineer. Because of heavy snow conditions and the fact that the alignment diverted away from the existing trail by up to 300 m, a bulldozer was retained on a part-time basis to provide access.

A series of 89 test holes were drilled along the alignment of the airstrip and access road. The spacing between the holes varied generally between 50 and 200 metres. Test hole locations were tied to the nearest centreline stations that could be found and identified along the alignment. In the alternative alignment along the existing trail, a compass and tape traverse was completed to locate the test holes. The field investigation covered a period of 7 days which included mobilization and demobilization from Whitehorse, layout of the test holes, and drilling.

Test holes were numbered from TH1 to TH89 inclusive, starting in the airport area proceeding northwesterly towards the Callison subdivision. TH1 to TH68 and TH75 to TH89 were located along the proposed alignment. TH69 to TH74 were located on the alternative alignment along the existing trail. The locations of all of the test holes drilled for this investigation are shown on Drawing D-2441-1. The locations of test holes drilled by EBA Engineering Consultants Ltd. in March 1987 (TH6-1 to TH6-8 inclusive) are also shown on the drawing. TH1 to TH89 inclusive are attached in Appendix I. Copies of the EBA test holes are attached in Appendix II.

All test holes were drilled with the auger drill to refusal in the underlying bedrock. The depth to refusal in the test holes varied between 0.5 and 6.5 m below ground surface. The thickness of peat was recorded in all test holes. Samples were taken at 1 m intervals in each test hole.

3.0

LABORATORY TESTING

All samples were taken to our laboratory for confirmation of classification and additional testing. The testing included calculation of moisture contents and Atterberg Limits on the fine grained silt and clay soils. Sieve analysis were done on samples of the gravel that were encountered in three of the test holes. The additional testing was restricted to the fine grained silt or clay or the gravel samples which were encountered in test holes (TH72 to TH74 and TH79 to TH84 inclusive) over a short section of the proposed and

the alternative alignment. A Standard Proctor test was done on a typical sample of the weathered bedrock. The results of the additional testing are attached in Appendix III.

4.0

SUBSOIL CONDITIONS

At the proposed airport location and along most of the access road alignment bedrock is exposed at the ground surface or under a very thin organic cover.

The underlying bedrock is predominately a quartz and mica schist with iron or chloride alterates or altered schist or quartzite. The quartz and mica schist is generally light brown to brown. The altered schist and quartzite is dark brown to black. The bedrock is weathered to variable depths below the surface and the degree of weathering decreased with depth. Based on the refusal depths encountered during the drilling, the depth of weathering is estimated to be between 0.5 and 7.0 m below the existing ground surface.

Overburden soils (silt over gravel) were encountered in one area of the proposed road and the alternative alignment. See TH79 to TH84 and TH72 to TH74 inclusive. The area where these soils were encountered is also delineated on the attached drawing. The overburden soil is predominately nonplastic silt with some fine sand and occasional pebbles. This stratum is between 1 and 6 metres in thickness. In some of the test holes, permafrost was encountered. The permafrost could not be classified in accordance with the NRC classification system because of the drilling method employed. The disturbed samples contained ice crystals and in some test holes the estimated volume of ice was in the 50% range. In other unfrozen test holes, the moisture content of the soil was generally in the 10 to 15% range and gradually increased with depth.

Gravel was encountered in three of the test holes TH73, TH80 and TH83 under the silt at depths between 1.0 and 3.0 m below the ground surface. In TH73, water was encountered at the 4.0 m depth. In TH80

and TH83 the gravel was frozen and ice crystals were observed in the voids. The gravel is well graded and appears to be dense. In TH85 and TH86 gravel up to 0.5 m thick overlies the quartz and mica schist bedrock.

5.0 CONCLUSIONS AND RECOMMENDATIONS

The gently rolling terrain along the well defined ridge suggests that the airstrip and access road can probably be constructed according to a balanced cut and fill design. The construction of this facility is feasible from the geotechnical point of view.

The major material type to be encountered is the local quartz and mica schist bedrock. This material is weathered near the ground surface and generally breaks down into a silty gravel like texture. This weathered bedrock makes excellent fill and can be compacted to a high density.

The depth of the weathering will be variable along the route. In some areas, auger refusal was encountered as shallow as at 0.5 m below ground surface. In other areas, refusal was encountered as deep as 6 m below ground. The weathered bedrock can generally be removed after ripping with conventional earth moving equipment. Depending on the final design grade, it is possible that the grade line will be located in unweathered rock in certain areas. In these areas, where excavations are into the unweathered rock, blasting will probably be required.

The unfrozen local silt soil can be used as general fill. However, the material is very frost susceptible and is subject to loss in strength when saturated. It should not be placed in low fills or remain in-place at shallow depths under the finished road surface. As stated previously, some of the silt is permanently frozen and high ice contents were encountered in some of the test holes. It is our recommendation that grades be designed to avoid excavations in this silt soil.

February 17, 1988

The gravel materials are up to 5 m thick in one of the test holes (TH73). The lateral extent and volumes of gravel that exist in this deposit are not known. The grain size completed for the TH73 sample shows it is well graded. If sufficient volumes are present, the gravel could be developed to provide crushed road gravel. Additional investigations are recommended to delineate the extent and quality of the material.

Should you have any questions about this report, please contact us.

Yours very truly,

KLOHN LEONOFF LTD.


KENNETH R. GILLESPIE, P. Eng.
Project Engineer

KRG/sh

APPENDIX I

Klohn Leonoff Test Hole Logs TH1 to TH89 inclusive

TEST HOLE LOG

SAMPLE DATA				SYMBOL	ELEV COLLAR	UNCONFINED COMPRESSION kPa			
WEIGHT HAMMER 63.5 Kg					ELEV GROUND	100 200 300 400			
HEIGHT DROP 0.76 m					CO-ORD. LOCATION	● FIELD VANE ▲ LAB VANE ■ UNCONF.			
DEPTH ELEV	O.D. T.D.	BLOWS 15m	NO.		DESCRIPTION OF MATERIAL	PLASTIC LIMIT	WATER CONTENT		LIQUID LIMIT
					X-----X				
					10 30 50 70 90%				
					0.05 m	PEAT, thin organics, roots			
1.0	B		1			BEDROCK - weathered - quartz and mica schist - iron and chlorite alterates - light brown to brown - hard drilling 2.0 - 2.5 m			
2.0	B		2						
					2.5 m				
3.0					REFUSAL AT 2.5 m				
4.0									
5.0									
6.0									
7.0									



KLOHN LEONOFF
CONSULTING ENGINEERS

JOB No.	PA 2441
PROJECT	AIRPORT AND ACCESS ROAD
LOCATION	DAWSON CITY, Y.T.
HOLE No.	TH - 01
DATE	NOV. 25-29/87 PLATE

TEST HOLE LOG

SAMPLE DATA				SYMBOL	ELEV COLLAR	UNCONFINED COMPRESSION kPa				
WEIGHT HAMMER 63.5 Kg					ELEV GROUND	100 200 300 400				
HEIGHT DROP 0.76 m					CO-ORD. LOCATION As per attached location	● FIELD VANE ▲ LAB VANE ■ UNCONF.				
DEPTH ELEV	O.D. I.D.	BLOWS 1.5m	NO.		DESCRIPTION OF MATERIAL	PLASTIC LIMIT	WATER CONTENT		LIQUID LIMIT	
					X-----X	10	30	60	70	90%
1.0	B		1	0.05 m PEAT, thin organics, roots						
2.0	B		2	BEDROCK - weathered - quartz and mica schist - iron and chlorite alterates - light brown to brown						
3.0										
4.0	B		3							
4.5				4.5 m						
5.0				REFUSAL AT 4.5 m						
6.0										
7.0										



KLOHN LEONOFF
CONSULTING ENGINEERS

JOB No.	PA 2441
PROJECT	AIRPORT AND ACCESS ROAD
LOCATION	DAWSON CITY, Y.T.
HOLE No.	TH - 02
DATE	NOV. 25-29/87 PLATE

TEST HOLE LOG

SAMPLE DATA				SYMBOL	ELEV COLLAR		UNCONFINED COMPRESSION kPa				
WEIGHT HAMMER 63.5 Kg					ELEV GROUND		100 200 300 400 ● FIELD VANE ▲ LAB VANE ■ UNCONF.				
HEIGHT DROP 0.76 m					CO-ORD LOCATION As per attached location		PLASTIC LIMIT WATER CONTENT LIQUID LIMIT X-----0-----X 10 30 50 70 90%				
DEPTH ELEV	O.D. I.D.	BLOWS .15m	NO.		DESCRIPTION OF MATERIAL						
1.0	B		1	0.04 m PEAT, thin organics, roots							
2.0	B		2	BEDROCK - weathered - quartz and mica schist - iron and chlorite alterates - light brown to brown							
3.0						2.5 m					
4.0				REFUSAL AT 2.5 m							
5.0											
6.0											
7.0											



KLOHN LEONOFF
CONSULTING ENGINEERS

JOB No.	PA 2441
PROJECT	AIRPORT AND ACCESS ROAD
LOCATION	DAWSON CITY, Y.T.
HOLE No.	TH - 03
DATE	NOV. 25-29/87 PLATE

TEST HOLE LOG

SAMPLE DATA				SYMBOL	ELEV COLLAR		UNCONFINED COMPRESSION kPa				
WEIGHT HAMMER 63.5 Kg					ELEV GROUND		100 200 300 400				
HEIGHT DROP 0.76 m					CO-ORD. LOCATION		● FIELD VANE ▲ LAB VANE ■ UNCONF.				
DEPTH ELEV	O.D. I.D.	BLOWS .15m	NO.		DESCRIPTION OF MATERIAL		PLASTIC LIMIT	WATER CONTENT		LIQUID LIMIT	
X				10			30	0	70	90	X
0.05				PEAT, thin organics, roots							
1.0	B		1	BEDROCK - weathered - quartzite - gravel like, 3-5 cm - angular							
2.0											
3.0	B		2	3.0 m							
4.0				REFUSAL AT 3.0 m							
5.0											
6.0											
7.0											



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JOB No.	PA 2441
PROJECT	AIRPORT AND ACCESS ROAD
LOCATION	DAWSON CITY, Y.T.
HOLE No.	TH - 04
DATE	NOV. 25-29/87 PLATE

TEST HOLE LOG

SAMPLE DATA				SYMBOL	ELEV COLLAR	UNCONFINED COMPRESSION kPa							
WEIGHT HAMMER 63.5 Kg					ELEV GROUND	100	200	300	400				
HEIGHT DROP 0.76 m					CO-ORD LOCATION	As per attached location							
DEPTH ELEV	O.D. T.O.	BLOWS 15m	NO.		DESCRIPTION OF MATERIAL					PLASTIC LIMT	WATER CONTENT	LIQUID LIMT	
									X-----X	0	X-----X		
									10	30	50	70	90%
1.0	B		1	BEDROCK - weathered - quartzite - gravel like, 3-5 cm - angular									
2.0	B		2						2.0 m				
3.0				REFUSAL AT 2.0 m									
4.0				Notes: Blocky surface 10 - 20 cm									
5.0													
6.0													
7.0													



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JOB No.	PA 2441
PROJECT	AIRPORT AND ACCESS ROAD
LOCATION	DAWSON CITY, Y.T.
HOLE No.	TH - 05
DATE	NOV. 25-29/87 PLATE

TEST HOLE LOG

SAMPLE DATA				SYMBOL	ELEV COLLAR		UNCONFINED COMPRESSION kPa					
WEIGHT HAMMER 63.5 Kg					ELEV GROUND		100 200 300 400					
HEIGHT DROP 0.76 m					CO-ORD. LOCATION As per attached location		● FIELD VANE		△ LAB VANE		■ UNCONF.	
DEPTH ELEV	O.D. I.D.	BLOWS 1.5m	NO.		DESCRIPTION OF MATERIAL		PLASTIC LMNT		WATER CONTENT		LIQUID LMNT	
						X	10	30	0	50	70	X
					0.05 m PEAT, thin organics, roots							
1.0	B		1		BEDROCK - weathered - quartz and mica schist - iron and chlorite alterates - light brown to brown							
2.0	B		2									
3.0					3.0 m							
4.0					REFUSAL AT 3.0 m							
5.0												
6.0												
7.0												



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JOB No.	PA 2441
PROJECT	AIRPORT AND ACCESS ROAD
LOCATION	DAWSON CITY, Y.T.
HOLE No.	TH - 06
DATE	NOV. 25-29/87 PLATE

TEST HOLE LOG

SAMPLE DATA				SYMBOL	ELEV COLLAR		UNCONFINED COMPRESSION kPa								
WEIGHT HAMMER 63.5 Kg					ELEV GROUND		100 200 300 400								
HEIGHT DROP 0.76 m					CO-ORD LOCATION As per attached location		● FIELD VANE		▲ LAB VANE		■ UNCONF.				
DEPTH ELEV	O.D. I.D.	BLOWS 15m	NO.		DESCRIPTION OF MATERIAL			PLASTIC LIMIT	WATER CONTENT	LIQUID LIMIT					
							X	0	X	10	30	50	70	90%	
					0.05 m	PEAT, thin organics, roots									
1.0	B		1		BEDROCK	- weathered - quartz and mica schist - iron and chlorite alterates - light brown to brown									
2.0	B		2		2.0 m										
					REFUSAL AT 2.0 m										
3.0															
4.0															
5.0															
6.0															
7.0															



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JOB No.	PA 2441
PROJECT	AIRPORT AND ACCESS ROAD
LOCATION	DAWSON CITY, Y.T.
HOLE No.	TH - 07
DATE	NOV. 25-29/87 PLATE

TEST HOLE LOG

SAMPLE DATA				SYMBOL	ELEV COLLAR		UNCONFINED COMPRESSION kPa									
WEIGHT HAMMER 63.5 Kg					ELEV GROUND		100 200 300 400									
HEIGHT DROP 0.76 m					CO-ORD. LOCATION As per attached location		● FIELD VANE		△ LAB VANE		■ UNCONF.					
DEPTH ELEV	O.D. I.D.	BLOWS 15m	NO.		DESCRIPTION OF MATERIAL			PLASTIC LIMIT	WATER CONTENT		LIQUID LIMIT					
							X	10	30	0	50	70	90	X		
	B		1	BEDROCK - weathered - quartz and mica schist - iron and chlorite alterates - light brown to brown												
1.0	B		2													
2.0	B		3				2.5 m									
3.0				REFUSAL AT 2.5 m												
4.0																
5.0																
6.0																
7.0																



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JOB No.	PA 2441
PROJECT	AIRPORT AND ACCESS ROAD
LOCATION	DAWSON CITY, Y.T.
HOLE No.	TH - 08
DATE	NOV. 25-29/87 PLATE

TEST HOLE LOG

SAMPLE DATA				SYMBOL	ELEV COLLAR		UNCONFINED COMPRESSION kPa														
WEIGHT HAMMER 63.5 Kg					ELEV GROUND		100 200 300 400														
HEIGHT DROP 0.76 m					CO-ORD. LOCATION As per attached location		● FIELD VANE		▲ LAB VANE		■ UNCONF.										
DEPTH ELEV	O.D. I.D.	BLOWS .15m	NO.		DESCRIPTION OF MATERIAL		PLASTIC LMNT	WATER CONTENT		LIQUID LMNT											
				X			0	X		10	30	60	70	90%							
					0.05 m	PEAT, thin organics, roots															
1.0	B		1		1.0 m	BEDROCK - weathered - quartz and mica schist - iron and chlorite alterates - light brown to brown															
2.0						REFUSAL AT 1.0 m															
3.0																					
4.0																					
5.0																					
6.0																					
7.0																					



KLOHN LEONOFF
CONSULTING ENGINEERS

JOB No.	PA 2441
PROJECT	AIRPORT AND ACCESS ROAD
LOCATION	DAWSON CITY, Y.T.
HOLE No.	TH - 09
DATE	NOV. 25-29/87 PLATE

TEST HOLE LOG

SAMPLE DATA				SYMBOL	ELEV COLLAR		UNCONFINED COMPRESSION kPa				
WEIGHT HAMMER 63.5 Kg					ELEV GROUND		100 200 300 400				
HEIGHT DROP 0.76 m					CO-ORD. LOCATION As per attached location		● FIELD VANE ▲ LAB VANE ■ UNCONF.				
DEPTH ELEV	O.D. I.D.	BLOWS .15m	NO.		DESCRIPTION OF MATERIAL		PLASTIC LIMIT	WATER CONTENT		LIQUID LIMIT	
X				X			0	X			
						10	30	60	70	90%	
				0.04 m	PEAT, thin organics, roots						
1.0	B		1		BEDROCK - weathered - quartz and mica schist - iron and chlorite alterates - light brown to brown						
2.0	B		2	2.0 m							
3.0				REFUSAL AT 2.0 m							
4.0											
5.0											
6.0											
7.0											



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JOB No.	PA 2441
PROJECT	AIRPORT AND ACCESS ROAD
LOCATION	DAWSON CITY, Y.T.
HOLE No.	TH - 10
DATE	NOV. 25-29/87 PLATE

TEST HOLE LOG

SAMPLE DATA				SYMBOL	ELEV COLLAR	UNCONFINED COMPRESSION kPa												
WEIGHT HAMMER 63.5 Kg					ELEV GROUND	100 200 300 400												
HEIGHT DROP 0.76 m					CO-ORD LOCATION	● FIELD VANE Δ LAB VANE ■ UNCONF.												
DEPTH ELEV	O.D I.D.	BLOWS .15m	NO.		DESCRIPTION OF MATERIAL					PLASTIC LIMIT	WATER CONTENT	LIQUID LIMIT						
										X-----X	0	X						
										10	30	50	70	90%				
					0.05 m	PEAT, thin organics, roots												
1.0	B		1		BEDROCK - weathered - quartz and mica schist - iron and chlorite alterates - light brown to brown													
2.0	B		2	2.0 m														
3.0					REFUSAL AT 2.0 m													
4.0																		
5.0																		
6.0																		
7.0																		



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JOB No.	PA 2441
PROJECT	AIRPORT AND ACCESS ROAD
LOCATION	DAWSON CITY, Y.T.
HOLE No.	TH - 11
DATE	NOV. 25-29/87 PLATE

TEST HOLE LOG

SAMPLE DATA				SYMBOL	ELEV COLLAR	UNCONFINED COMPRESSION kPa												
WEIGHT HAMMER 63.5 Kg					ELEV GROUND	100 200 300 400												
HEIGHT DROP 0.76 m					CO-ORD. LOCATION	● FIELD VANE ▲ LAB VANE ■ UNCONF.												
DEPTH ELEV	O.D. I.D.	BLOWS 15m	NO.		DESCRIPTION OF MATERIAL					PLASTIC LIMIT	WATER CONTENT	LIQUID LIMIT						
										X-----X	0	---						
										10	30	60	70	80%				
					0.05 m	PEAT, thin organics, roots												
1.0	B		1			BEDROCK - weathered - quartz and mica schist - iron and chlorite alterates - light brown to brown - hard drilling 1.5 - 2.0 m												
2.0	B		2	2.0 m														
3.0					REFUSAL AT 2.0 m													
4.0																		
5.0																		
6.0																		
7.0																		



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JOB No.	PA 2441
PROJECT	AIRPORT AND ACCESS ROAD
LOCATION	DAWSON CITY, Y.T.
HOLE No.	TH - 12
DATE	NOV. 25-29/87 PLATE

TEST HOLE LOG

SAMPLE DATA				SYMBOL	ELEV COLLAR		UNCONFINED COMPRESSION kPa					
WEIGHT HAMMER 63.5 Kg					ELEV GROUND		100 200 300 400 ● FIELD VANE ▲ LAB VANE ■ UNCONF.					
HEIGHT DROP 0.76 m					CO-ORD. LOCATION As per attached location		PLASTIC LIMIT		WATER CONTENT		LIQUID LIMIT	
DEPTH ELEV.	O.D. I.D.	BLOWS 15m	NO.		DESCRIPTION OF MATERIAL			X	0	0	X	
							10	30	60	70	90%	
				0.05 m	PEAT, thin organics, roots							
1.0	B		1	3.5 m	BEDROCK - weathered - quartz and mica schist - iron and chlorite alterates - light brown to brown - alteration decreases with increasing depth							
2.0			2									
3.0	B		3									
4.0	B				REFUSAL AT 3.5 m							
5.0												
6.0												
7.0												



KLOHN LEONOFF
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JOB No.	PA 2441
PROJECT	AIRPORT AND ACCESS ROAD
LOCATION	DAWSON CITY, Y.T.
HOLE No.	TH - 13
DATE	NOV. 25-29/87 PLATE

TEST HOLE LOG

SAMPLE DATA				SYMBOL	ELEV COLLAR	UNCONFINED COMPRESSION kPa				
WEIGHT HAMMER 63.5 Kg					ELEV GROUND	100 200 300 400 ● FIELD VANE Δ LAB VANE ■ UNCONF.				
HEIGHT DROP 0.76 m					CO-ORD. LOCATION	PLASTIC LIMIT WATER CONTENT LIQUID LIMIT X-----0-----X 10 30 50 70 90%				
DEPTH ELEV.	O.D. I.D.	BLOWS 15m	NO.		CO-ORD. LOCATION	As per attached location				
					DESCRIPTION OF MATERIAL					
1.0	B		1	0.05m	PEAT, thin organics, roots					
2.0	B		2	1.75 m	BEDROCK - weathered - quartz and mica schist - iron and chlorite alterates - light brown to brown - hard drilling 1.25 - 1.75 m					
3.0					REFUSAL AT 1.75 m					
4.0										
5.0										
6.0										
7.0										



KLOHN LEONOFF
CONSULTING ENGINEERS

JOB No.	PA 2441
PROJECT	AIRPORT AND ACCESS ROAD
LOCATION	DAWSON CITY, Y.T.
HOLE No.	TH - 14
DATE	NOV. 25-29/87 PLATE

TEST HOLE LOG

SAMPLE DATA				SYMBOL	ELEV COLLAR		UNCONFINED COMPRESSION kPa																	
WEIGHT HAMMER 63.5 Kg					ELEV GROUND		100 200 300 400																	
HEIGHT DROP 0.76 m					CO-ORD. LOCATION As per attached location		● FIELD VANE ▲ LAB VANE ■ UNCONF.																	
DEPTH ELEV	O.D. I.D.	BLOWS 15m	NO.		DESCRIPTION OF MATERIAL		PLASTIC LIMIT	WATER CONTENT		LIQUID LIMIT														
X	X	X	X	10			30	0	70	80	90%													
0.05					0.05 m	PEAT, thin organics, roots																		
1.0	B		1			BEDROCK - weathered - quartz and mica schist - iron and chlorite alterates - light brown to brown																		
2.0	B		2		1.9 m																			
3.0						REFUSAL AT 1.9 m																		
4.0																								
5.0																								
6.0																								
7.0																								



KLOHN LEONOFF
CONSULTING ENGINEERS

JOB No.	PA 2441
PROJECT	AIRPORT AND ACCESS ROAD
LOCATION	DAWSON CITY, Y.T.
HOLE No.	TH - 15
DATE	NOV. 25-29/87 PLATE

TEST HOLE LOG

SAMPLE DATA				SYMBOL	ELEV COLLAR		UNCONFINED COMPRESSION kPa				
WEIGHT HAMMER 63.5 Kg					ELEV GROUND		100 200 300 400				
HEIGHT DROP 0.76 m					CO-ORD. LOCATION As per attached location		<input type="checkbox"/> FIELD VANE <input type="checkbox"/> LAB VANE <input type="checkbox"/> UNCONF.				
DEPTH ELEV	O.D. I.D.	BLOWS 15m	NO.		DESCRIPTION OF MATERIAL		PLASTIC LMNT	WATER CONTENT		LIQUID LIMIT	
X				X							X
0.05				0.05 m PEAT, thin organics, roots							
1.0	B		1	BEDROCK - weathered - quartz and mica schist - iron and chlorite alterates - light brown to brown							
2.0	B		2			2.0 m					
3.0				REFUSAL AT 2.0 m							
4.0											
5.0											
6.0											
7.0											



KLOHN LEONOFF
CONSULTING ENGINEERS

JOB No.	PA 2441
PROJECT	AIRPORT AND ACCESS ROAD
LOCATION	DAWSON CITY, Y.T.
HOLE No.	TH - 16
DATE	NOV. 25-29/87 PLATE

TEST HOLE LOG

SAMPLE DATA				SYMBOL	ELEV COLLAR	UNCONFINED COMPRESSION kPa														
WEIGHT HAMMER 63.5 Kg					ELEV GROUND	100 200 300 400														
HEIGHT DROP 0.76 m					CO-ORD. LOCATION	● FIELD VANE ▲ LAB VANE ■ UNCONF.														
DEPTH ELEV	O.D. I.D.	BLOWS 15m	NO.		DESCRIPTION OF MATERIAL				PLASTIC LIMIT	WATER CONTENT	LIQUID LIMIT									
						X	0	X												
						10	30	50	70	90%										
0.05					0.05 m	PEAT, thin organics, roots														
1.0	B		1			BEDROCK - weathered - quartz and mica schist - iron and chlorite alterates - light brown to brown														
2.0																				
3.0	B		2		3.0 m	REFUSAL AT 3.0 m														
4.0																				
5.0																				
6.0																				
7.0																				



KLOHN LEONOFF
CONSULTING ENGINEERS

JOB No. PA 2441
 PROJECT AIRPORT AND ACCESS ROAD
 LOCATION DAWSON CITY, Y.T.
 HOLE No. TH - 17
 DATE NOV. 25-29/87 PLATE

TEST HOLE LOG

SAMPLE DATA				SYMBOL	ELEV COLLAR	UNCONFINED COMPRESSION kPa										
WEIGHT HAMMER 63.5 Kg					ELEV GROUND	100 200 300 400										
HEIGHT DROP 0.76 m					CO-ORD. LOCATION	● FIELD VANE ▲ LAB VANE ■ UNCONF.										
DEPTH ELEV	O.D. I.D.	BLOWS 15m	NO.		DESCRIPTION OF MATERIAL					PLASTIC LIMIT	WATER CONTENT	LIQUID LIMIT				
										X-----X	0	-----X				
										10	30	70	90%			
					0.05 m	PEAT, thin organics, roots										
1.0	B		1		BEDROCK - weathered - quartz and mica schist - iron and chlorite alterates - light brown to brown											
2.0																
3.0	B		2													
	B		3		3.2 m											
4.0					REFUSAL AT 3.2 m											
5.0																
6.0																
7.0																



KLOHN LEONOFF
CONSULTING ENGINEERS

JOB No. PA 2441
 PROJECT AIRPORT AND ACCESS ROAD
 LOCATION DAWSON CITY, Y.T.
 HOLE No. TH - 18
 DATE NOV. 25-29/87 PLATE

TEST HOLE LOG

SAMPLE DATA				SYMBOL	ELEV COLLAR		UNCONFINED COMPRESSION kPa				
WEIGHT HAMMER 63.5 Kg					ELEV GROUND		100 200 300 400 ● FIELD VANE Δ LAB VANE ■ UNCONF.				
HEIGHT DROP 0.76 m					CO-ORD. LOCATION		PLASTIC LIMIT WATER CONTENT LIQUID LIMIT X-----0-----X 10 30 50 70 90%				
DEPTH ELEV	O.D. I.D.	BLOWS 15m	NO.		DESCRIPTION OF MATERIAL						
1.0	B		1	0.05 m	PEAT, thin organics, roots						
2.0	B		2	1.8 m	BEDROCK - weathered - quartz and mica schist - iron and chlorite alterates - light brown to brown - hard drilling last 0.3 m						
3.0					REFUSAL AT 1.8 m						
4.0											
5.0											
6.0											
7.0											



KLOHN LEONOFF
CONSULTING ENGINEERS

JOB No.	PA 2441
PROJECT	AIRPORT AND ACCESS ROAD
LOCATION	DAWSON CITY, Y.T.
HOLE No.	TH - 19
DATE	NOV. 25-29/87 PLATE

TEST HOLE LOG

SAMPLE DATA				SYMBOL	ELEV. COLLAR		UNCONFINED COMPRESSION kPa				
WEIGHT HAMMER 63.5 Kg					ELEV. GROUND		100 200 300 400				
WEIGHT DROP 0.76 m					CO-ORD. LOCATION		● FIELD VANE ▲ LAB VANE ■ UNCONF.				
DEPTH ELEV	O.D. I.D.	BLOWS 15m	NO.		DESCRIPTION OF MATERIAL		PLASTIC LIMIT	WATER CONTENT		LIQUID LIMIT	
						X-----X	0	0	70	90%	
0.05 m					0.05 m	PEAT, thin organics, roots					
1.0	B		1			BEDROCK - weathered - quartzite - gravel like, 3-5 cm - angular					
2.0	B		2		1.7 m	REFUSAL AT 1.7 m					
3.0											
4.0											
5.0											
6.0											
7.0											



KLOHN LEONOFF
CONSULTING ENGINEERS

JOB No.	PA 2441
PROJECT	AIRPORT AND ACCESS ROAD
LOCATION	DAWSON CITY, Y.T.
HOLE No.	TH - 20
DATE	NOV. 25-29/87 PLATE

TEST HOLE LOG

SAMPLE DATA				SYMBOL	ELEV COLLAR	UNCONFINED COMPRESSION kPa									
WEIGHT HAMMER 63.5 Kg					ELEV GROUND	100 200 300 400									
HEIGHT DROP 0.76 m					CO-ORD. LOCATION	● FIELD VANE ▲ LAB VANE ■ UNCONF.									
DEPTH ELEV	O.D. I.D.	BLOWS 15m	NO.		DESCRIPTION OF MATERIAL					PLASTIC LIMIT	WATER CONTENT	LIQUID LIMIT			
										X-----X	-----0-----X	-----X			
										10	30	60	70	90%	
					0.05 m	PEAT, thin organics, roots									
1.0	B		1			BEDROCK - weathered - quartz and mica schist - iron and chlorite alterates - light brown to brown - more iron oxide in 1st meter									
2.0	B		2												
2.5 m						REFUSAL AT 2.5 m									
3.0															
4.0															
5.0															
6.0															
7.0															



KLOHN LEONOFF
CONSULTING ENGINEERS

JOB No.	PA 2441
PROJECT	AIRPORT AND ACCESS ROAD
LOCATION	DAWSON CITY, Y.T.
HOLE No.	TH - 21
DATE	NOV. 25-29/87 PLATE

TEST HOLE LOG

SAMPLE DATA				SYMBOL	ELEV COLLAR	UNCONFINED COMPRESSION kPa									
WEIGHT HAMMER 63.5 Kg					ELEV GROUND	100 200 300 400									
HEIGHT DROP 0.76 m					CO-ORD. LOCATION	● FIELD VANE ▲ LAB VANE ■ UNCONF									
DEPTH ELEV	O.D. I.D.	BLOWS 15m	NO.		DESCRIPTION OF MATERIAL					PLASTIC LIMIT	WATER CONTENT	LIQUID LIMIT			
										X-----X	0	X			
										10	30	50	70	90%	
					0.05 m	PEAT, thin organics, roots									
1.0	B		1			BEDROCK - weathered - quartz and mica schist - iron and chlorite alterates - light brown to brown									
2.0	B		2	2.0 m											
					REFUSAL AT 2.0 m										
3.0															
4.0															
5.0															
6.0															
7.0															



KLOHN LEONOFF
CONSULTING ENGINEERS

JOB No.	PA 2441
PROJECT	AIRPORT AND ACCESS ROAD
LOCATION	DAWSON CITY, Y.T.
HOLE No.	TH - 22
DATE	NOV. 25-29/87 PLATE

TEST HOLE LOG

SAMPLE DATA				SYMBOL	ELEV COLLAR	UNCONFINED COMPRESSION kPa				
WEIGHT HAMMER 63.5 Kg					ELEV GROUND	100 200 300 400 ● FIELD VANE Δ LAB VANE ■ UNCONF.				
HEIGHT DROP 0.76 m					CO-ORD. LOCATION	PLASTIC WATER LIQUID LIMIT CONTENT LIMIT X-----X 10 30 60 70 90%				
DEPTH	O.D.	BLOWS	NO.		DESCRIPTION OF MATERIAL					
ELEV	I.D.	/15m								
					0.05 m PEAT, thin organics, roots					
1.0	B		1		BEDROCK - weathered - quartz and mica schist - iron and chlorite alterates - light brown to brown - coarse fragments, angular up to 4 cm					
2.0	B		2	1.6 m						
					REFUSAL AT 1.6 m					
3.0										
4.0										
5.0										
6.0										
7.0										



KLOHN LEONOFF
CONSULTING ENGINEERS

JOB No.	PA 2441
PROJECT	AIRPORT AND ACCESS ROAD
LOCATION	DAWSON CITY, Y.T.
HOLE No.	TH - 23
DATE	NOV. 25-29/87 PLATE

TEST HOLE LOG

SAMPLE DATA				SYMBOL	ELEV COLLAR	UNCONFINED COMPRESSION kPa												
WEIGHT HAMMER 63.5 Kg					ELEV GROUND	100 200 300 400												
HEIGHT DROP 0.76 m					CO-ORD. LOCATION	● FIELD VANE ▲ LAB VANE ■ UNCONF												
DEPTH ELEV.	O.D. I.D.	BLOWS 15m	NO.		DESCRIPTION OF MATERIAL					PLASTIC LIMIT	WATER CONTENT	LIQUID LIMIT						
										X	0	X						
										10	30	50	70	90%				
0.1					0.1 m	PEAT, thin organics, roots												
1.0	B		1			BEDROCK - weathered - quartz and mica schist - iron and chlorite alterates - light brown to brown												
2.0					1.5 m													
3.0						REFUSAL AT 1.5 m												
4.0																		
5.0																		
6.0																		
7.0																		



KLOHN LEONOFF
CONSULTING ENGINEERS

JOB No.	PA 2441
PROJECT	AIRPORT AND ACCESS ROAD
LOCATION	DAWSON CITY, Y.T.
HOLE No.	TH - 24
DATE	NOV. 25-29/87 PLATE

TEST HOLE LOG

SAMPLE DATA				SYMBOL	ELEV COLLAR		UNCONFINED COMPRESSION kPa						
WEIGHT HAMMER 63.5 Kg					ELEV GROUND		100 200 300 400 ● FIELD VANE ▲ LAB VANE ■ UNCONF.						
HEIGHT DROP 0.76 m					CO-ORD. LOCATION As per attached location		PLASTIC LIMIT		WATER CONTENT		LIQUID LIMIT		
DEPTH ELEV.	O.D. I.D.	BLOWS 15m	NO.		DESCRIPTION OF MATERIAL			X	0	X			
							10	30	50	70	90%		
				0.05 m	PEAT, thin organics, roots								
1.0	B		1	BEDROCK - weathered - quartz and mica schist - iron and chlorite alterates - light brown to brown - harder drilling from 3.0 - 6.5 m									
2.0													
	B		2										
3.0													
4.0	B		3										
5.0	B		4										
6.0													
7.0	B		5	6.5 m	REFUSAL AT 6.5 m								



KLOHN LEONOFF
CONSULTING ENGINEERS

JOB No.	PA 2441
PROJECT	AIRPORT AND ACCESS ROAD
LOCATION	DAWSON CITY, Y.T.
HOLE No.	TH - 25
DATE	NOV. 25-29/87 PLATE

TEST HOLE LOG

SAMPLE DATA				SYMBOL	ELEV COLLAR	UNCONFINED COMPRESSION kPa				
WEIGHT HAMMER 63.5 Kg					ELEV GROUND	100 200 300 400 ● FIELD VANE ▲ LAB VANE ■ UNCONF.				
HEIGHT DROP 0.76 m					CO-ORD LOCATION As per attached location	PLASTIC LIMIT	WATER CONTENT			LIQUID LIMIT
DEPTH ELEV	O.D. I.D.	BLOWS 15m	NO.		DESCRIPTION OF MATERIAL	X	0			X
					10 30 50 70 90%					
				0.05 m	PEAT, thin organics, roots					
1.0	B		1	BEDROCK - weathered - quartz and mica schist - iron and chlorite alterates - light brown to brown - soft - highly weathered zone at 4.5 m - easy drilling						
2.0	B		2							
3.0										
4.0	B		3							
5.0										
6.0	B		4	6.0 m	- stopped drill					
7.0					END OF HOLE					



KLOHN LEONOFF
CONSULTING ENGINEERS

JOB No.	PA 2441
PROJECT	AIRPORT AND ACCESS ROAD
LOCATION	DAWSON CITY, Y.T.
HOLE No.	TH -26
DATE	NOV. 25-29/87 PLATE

TEST HOLE LOG

SAMPLE DATA				SYMBOL	ELEV COLLAR	UNCONFINED COMPRESSION kPa												
WEIGHT HAMMER 63.5 Kg					ELEV GROUND	100 200 300 400												
HEIGHT DROP 0.76 m					CO-ORD. LOCATION	● FIELD VANE ▲ LAB VANE ■ UNCONF.												
DEPTH	O.D.	BLOWS	NO.		DESCRIPTION OF MATERIAL					PLASTIC LIMIT	WATER CONTENT	LIQUID LIMIT						
ELEV	I.D.	/ 15m							X-----X	0	0-----X							
									10	30	50	70	90%					
					0.05 m	PEAT, thin organics, roots												
1.0	B		1		2.5 m	BEDROCK - weathered - quartz and mica schist - iron and chlorite alterates - light brown to brown - hard drilling from 1.5-2.5 m - rock more competent												
2.0	B		2															
3.0																		
4.0						REFUSAL AT 2.5 m												
5.0																		
6.0																		
7.0																		



KLOHN LEONOFF
CONSULTING ENGINEERS

JOB No.	PA 2441
PROJECT	AIRPORT AND ACCESS ROAD
LOCATION	DAWSON CITY, Y.T.
HOLE No.	TH - 27
DATE	NOV. 25-29/87 PLATE

TEST HOLE LOG

SAMPLE DATA				SYMBOL	ELEV COLLAR		UNCONFINED COMPRESSION kPa					
WEIGHT HAMMER 63.5 Kg					ELEV GROUND		100 200 300 400 ● FIELD VANE Δ LAB VANE ■ UNCONF.					
HEIGHT DROP 0.76 m					CO-ORD. LOCATION As per attached location		PLASTIC LMNT		WATER CONTENT		LIQUID LMNT	
DEPTH ELEV	O.D. I.D.	BLOWS .15m	NO.		DESCRIPTION OF MATERIAL		X-----0-----X		10 30 50 70 90%			
1.0	B		1	0.04 m PEAT, thin organics, roots								
2.0	B		2	2.0 m BEDROCK - weathered - quartz and mica schist - iron and chlorite alterates - light brown to brown								
3.0				REFUSAL AT 2.0 m								
4.0												
5.0												
6.0												
7.0												



KLOHN LEONOFF
CONSULTING ENGINEERS

JOB No.	PA 2441
PROJECT	AIRPORT AND ACCESS ROAD
LOCATION	DAWSON CITY, Y.T.
HOLE No.	TH - 28
DATE	NOV. 25-29/87 PLATE

TEST HOLE LOG

SAMPLE DATA				SYMBOL	ELEV COLLAR		UNCONFINED COMPRESSION kPa																
WEIGHT HAMMER 63.5 Kg					ELEV GROUND		100 200 300 400																
HEIGHT DROP 0.76 m					CO-ORD. LOCATION As per attached location		● FIELD VANE		△ LAB VANE		■ UNCONF.												
DEPTH ELEV	O.D. I.D.	BLOWS 1.5m	NO.		DESCRIPTION OF MATERIAL		PLASTIC LIMIT	WATER CONTENT		LIQUID LIMIT													
				X			10	30	0	50	70	90	X										
					0.03 m	PEAT, thin organics, roots																	
1.0	B		1			BEDROCK - weathered - quartz and mica schist - iron and chlorite alterates - light brown to brown																	
2.0	B		2	1.9 m																			
						REFUSAL AT 1.9 m																	
3.0																							
4.0																							
5.0																							
6.0																							
7.0																							



KLOHN LEONOFF
CONSULTING ENGINEERS

JOB No.	PA 2441
PROJECT	AIRPORT AND ACCESS ROAD
LOCATION	DAWSON CITY, Y.T.
HOLE No.	TH - 29
DATE	NOV. 25-29/87 PLATE

TEST HOLE LOG

SAMPLE DATA				SYMBOL	ELEV COLLAR	UNCONFINED COMPRESSION kPa									
WEIGHT HAMMER 63.5 Kg					ELEV GROUND	100 200 300 400 ● FIELD VANE ▲ LAB VANE ■ UNCONF.									
HEIGHT DROP 0.76 m					CO-ORD. LOCATION	As per attached location									
DEPTH ELEV	O.D. I.D.	BLOWS 15m	NO.		DESCRIPTION OF MATERIAL					PLASTIC LIMIT	WATER CONTENT	LIQUID LIMIT			
									X-----X	0	0	X-----X			
									10	30	50	70	90%		
					0.05 m	PEAT, thin organics, roots									
1.0	B		1		BEDROCK - weathered - quartz and mica schist - iron and chlorite alterates - light brown to brown										
2.0	B		2												
					2.3 m										
3.0					REFUSAL AT 2.3 m										
4.0															
5.0															
6.0															
7.0															



KLOHN LEONOFF
CONSULTING ENGINEERS

JOB No.	PA 2441
PROJECT	AIRPORT AND ACCESS ROAD
LOCATION	DAWSON CITY, Y.T.
HOLE No.	TH - 30
DATE	NOV. 25-29/87 PLATE

TEST HOLE LOG

SAMPLE DATA				SYMBOL	ELEV COLLAR		UNCONFINED COMPRESSION kPa														
WEIGHT HAMMER 63.5 Kg					ELEV GROUND		100 200 300 400														
HEIGHT DROP 0.76 m					CO-ORD. LOCATION As per attached location		● FIELD VANE ▲ LAB VANE ■ UNCONF.														
DEPTH ELEV	O.D. I.D.	BLOWS 15m	NO.		DESCRIPTION OF MATERIAL		PLASTIC LMT	WATER CONTENT	LIQUID LIMIT												
						X-----X	0	-----X													
						10	30	60	70	80%											
					0.1 m	PEAT, thin organics, roots															
1.0	B		1		2.0 m	BEDROCK - weathered - quartz and mica schist - iron and chlorite alterates - light brown to brown															
2.0	B		2																		
3.0					REFUSAL AT 2.0 m																
4.0																					
5.0																					
6.0																					
7.0																					



KLOHN LEONOFF
CONSULTING ENGINEERS

JOB No.	PA 2441
PROJECT	AIRPORT AND ACCESS ROAD
LOCATION	DAWSON CITY, Y.T.
HOLE No.	TH - 31
DATE	NOV. 25-29/87 PLATE

TEST HOLE LOG

SAMPLE DATA				SYMBOL	ELEV COLLAR		UNCONFINED COMPRESSION kPa				
WEIGHT HAMMER 63.5 Kg					ELEV GROUND		100 200 300 400				
HEIGHT DROP 0.76 m					CO-ORD. LOCATION As per attached location		● FIELD VANE ▲ LAB VANE ■ UNCONF.				
DEPTH ELEV	O.D. I.D.	BLOWS .15m	NO.		DESCRIPTION OF MATERIAL		PLASTIC LIMIT	WATER CONTENT	LIQUID LIMIT		
						X-----X	0	-----X			
						10	30	50	70	90%	
0.05 m				PEAT, thin organics, roots							
1.0	B		1	BEDROCK - weathered - quartz and mica schist - iron and chlorite alterates - light brown to brown - easy drilling							
2.0	B		2								
3.0											
4.0	B		3								
5.0				6.0 m STOPPED DRILL							
6.0	B		4								
7.0				END OF HOLE							



KLOHN LEONOFF
CONSULTING ENGINEERS

JOB No. PA 2441
 PROJECT AIRPORT AND ACCESS ROAD
 LOCATION DAWSON CITY, Y.T.
 HOLE No. TH - 32
 DATE NOV. 25-29/87 PLATE

TEST HOLE LOG

SAMPLE DATA				SYMBOL	ELEV COLLAR	UNCONFINED COMPRESSION kPa			
WEIGHT HAMMER 63.5 Kg					ELEV GROUND	100 200 300 400			
HEIGHT DROP 0.76 m					CO-ORD. LOCATION	● FIELD VANE ▲ LAB VANE ■ UNCONF.			
DEPTH ELEV	O.D. I.D.	BLOWS .15m	NO.		DESCRIPTION OF MATERIAL	PLASTIC LIMIT	WATER CONTENT	LIQUID LIMIT	
					X-----X	0	-----	X	
					10 30 50 70 90%				
1.0	B		1	0.05 m PEAT, thin organics, roots					
2.0	B		2	BEDROCK - weathered - quartz and mica schist - iron and chlorite alterates - light brown to brown - iron oxide alterations more frequent in 1st meter - easy drilling to 4.0 m					
3.0	B		3						
4.0	B								
4.3				4.3 m					
5.0				REFUSAL AT 4.3 m					
6.0									
7.0									



KLOHN LEONOFF
CONSULTING ENGINEERS

JOB No.	PA 2441
PROJECT	AIRPORT AND ACCESS ROAD
LOCATION	DAWSON CITY, Y.T.
HOLE No.	TH - 33
DATE	NOV. 25-29/87 PLATE

TEST HOLE LOG

SAMPLE DATA				SYMBOL	ELEV COLLAR		UNCONFINED COMPRESSION kPa												
WEIGHT HAMMER 63.5 Kg					ELEV GROUND		100 200 300 400 ● FIELD VANE Δ LAB VANE ■ UNCONF.												
HEIGHT DROP 0.76 m					CO-ORD. LOCATION As per attached location		PLASTIC LIMIT WATER CONTENT LIQUID LIMIT X ----- 0 ----- X 10 30 50 70 90%												
DEPTH ELEV	O.D. I.D.	BLOWS 1.5m	NO.		DESCRIPTION OF MATERIAL														
1.0	B		1	0.05 m PEAT, thin organics, roots															
2.0	B		2	2.0 m BEDROCK - weathered - quartz and mica schist - iron and chlorite alterates - light brown to brown															
3.0				REFUSAL AT 2.0 m															
4.0																			
5.0																			
6.0																			
7.0																			



KLOHN LEONOFF
CONSULTING ENGINEERS

JOB No.	PA 2441
PROJECT	AIRPORT AND ACCESS ROAD
LOCATION	DAWSON CITY, Y.T.
HOLE No.	TH - 34
DATE	NOV. 25-29/87 PLATE

TEST HOLE LOG

SAMPLE DATA				SYMBOL	ELEV COLLAR		UNCONFINED COMPRESSION kPa						
WEIGHT HAMMER 63.5 Kg					ELEV GROUND		100 200 300 400						
HEIGHT DROP 0.76 m					CO-ORD. LOCATION As per attached location		● FIELD VANE ▲ LAB VANE ■ UNCONF.						
DEPTH ELEV	O.D. I.D.	BLOWS 1.5m	NO.		DESCRIPTION OF MATERIAL		PLASTIC LMNT	WATER CONTENT	LIQUID LMNT				
						X	0	X	10	30	50	70	90%
1.0	B		1	0.05 m PEAT, thin organics, roots									
2.0	B		2	BEDROCK - weathered - quartz and mica schist - iron and chlorite alterates - light brown to brown									
3.0													
4.0	B		3										
5.0				4.5 m REFUSAL AT 4.5 m									
6.0													
7.0													



KLOHN LEONOFF
CONSULTING ENGINEERS

JOB No.	PA 2441
PROJECT	AIRPORT AND ACCESS ROAD
LOCATION	DAWSON CITY, Y.T.
HOLE No.	TH - 35
DATE	NOV. 25-29/87 PLATE

TEST HOLE LOG

SAMPLE DATA				SYMBOL	ELEV COLLAR	UNCONFINED COMPRESSION kPa				
WEIGHT HAMMER 63.5 Kg					ELEV GROUND	100 200 300 400				
HEIGHT DROP 0.76 m					CO-ORD. LOCATION As per attached location	● FIELD VANE ▲ LAB VANE ■ UNCONF.				
DEPTH ELEV	O.D. I.D.	BLOWS 15m	NO.		DESCRIPTION OF MATERIAL	PLASTIC LIMIT	WATER CONTENT		LIQUID LIMIT	
					X	10	30	0	70	X
				0.05 m PEAT, thin organics, roots						
1.0	B		1	BEDROCK - weathered - quartz and mica schist - iron and chlorite alterates - light brown to brown						
2.0	B		2							
				2.5 m						
3.0				REFUSAL AT 2.5 m						
4.0										
5.0										
6.0										
7.0										



KLOHN LEONOFF
CONSULTING ENGINEERS

JOB No.	PA 2441
PROJECT	AIRPORT AND ACCESS ROAD
LOCATION	DAWSON CITY, Y.T.
HOLE No.	TH - 36
DATE	NOV. 25-29/87 PLATE

TEST HOLE LOG

SAMPLE DATA				SYMBOL	ELEV COLLAR		UNCONFINED COMPRESSION kPa													
WEIGHT HAMMER 63.5 Kg					ELEV GROUND		100 200 300 400													
HEIGHT DROP 0.76 m					CO-ORD. LOCATION As per attached location		● FIELD VANE		△ LAB VANE		■ UNCONF.									
DEPTH ELEV	O.D I.D.	BLOWS .15m	NO.		DESCRIPTION OF MATERIAL		PLASTIC LIMIT	WATER CONTENT		LIQUID LIMIT										
				X			0		X											
						10	30	50	70	90%										
	B		1	0.05 m	PEAT, thin organics, roots															
1.0	B		2	1.0 m	SANDY SILT - some rock fragments - highly altered schist															
2.0	B		3	3.0 m	BEDROCK - weathered - quartz and mica schist - iron and chlorite alterates - light brown to brown															
3.0					REFUSAL AT 3.0 m															
4.0																				
5.0																				
6.0																				
7.0																				



KLOHN LEONOFF
CONSULTING ENGINEERS

JOB No.	PA 2441
PROJECT	AIRPORT AND ACCESS ROAD
LOCATION	DAWSON CITY, Y.T.
HOLE No.	TH - 37
DATE	NOV. 25-29/87 PLATE

TEST HOLE LOG

SAMPLE DATA				SYMBOL	ELEV. COLLAR	UNCONFINED COMPRESSION kPa					
WEIGHT HAMMER 63.5 Kg					ELEV. GROUND	100	200	300	400		
HEIGHT DROP 0.76 m					CO-ORD. LOCATION As per attached location	● FIELD VANE ▲ LAB VANE ■ UNCONF.					
DEPTH ELEV	O.D. I.D.	BLOWS .15m	NO.		DESCRIPTION OF MATERIAL					PLASTIC LIMIT	WATER CONTENT

DEPTH ELEV	O.D. I.D.	BLOWS .15m	NO.	DESCRIPTION OF MATERIAL	PLASTIC LIMIT	WATER CONTENT	LIQUID LIMIT
				0.03 m PEAT, thin organics, roots			
1.0	B		1	BEDROCK - weathered - quartz and mica schist - iron and chlorite alterates - light brown to brown - first 0.5 m highly altered and soft			
2.0	B		2				
3.0				2.7 m			
4.0				REFUSAL AT 2.7 m			
5.0							
6.0							
7.0							



KLOHN LEONOFF
CONSULTING ENGINEERS

JOB No.	PA 2441
PROJECT	AIRPORT AND ACCESS ROAD
LOCATION	DAWSON CITY, Y.T.
HOLE No.	TH - 38
DATE	NOV. 25-29/87 PLATE

TEST HOLE LOG

SAMPLE DATA				SYMBOL	ELEV COLLAR		UNCONFINED COMPRESSION kPa					
WEIGHT HAMMER 63.5 Kg					ELEV GROUND		100 200 300 400					
HEIGHT DROP 0.76 m					CO-ORD. LOCATION As per attached location		● FIELD VANE ▲ LAB VANE ■ UNCONF.					
DEPTH ELEV	O.D. I.D.	BLOWS .15m	NO.		DESCRIPTION OF MATERIAL		PLASTIC LIMIT	WATER CONTENT		LIQUID LIMIT		
						X-----X	10	30	0	70	100%	
				0.02 m	PEAT, thin organics, roots							
1.0	B		1		BEDROCK - weathered - quartz and mica schist - iron and chlorite alterates - light brown to brown - 30% angular fragments up 7 cm							
2.0												
3.0	B		2									
4.0	B		3	4.0 m	REFUSAL AT 4.0 m							
5.0					REFUSAL AT 4.0 m							
6.0												
7.0												



KLOHN LEONOFF
CONSULTING ENGINEERS

JOB No.	PA 2441
PROJECT	AIRPORT AND ACCESS ROAD
LOCATION	DAWSON CITY, Y.T.
HOLE No.	TH - 39
DATE	NOV. 25-29/87 PLATE

TEST HOLE LOG

SAMPLE DATA				SYMBOL	ELEV COLLAR	UNCONFINED COMPRESSION kPa			
WEIGHT HAMMER 63.5 Kg					ELEV GROUND	100	200	300	400
HEIGHT DROP 0.76 m					CO-ORD. LOCATION As per attached location	● FIELD VANE	△ LAB VANE	■ UNCONF.	
DEPTH ELEV	O.D. T.D.	BLOWS	NO.		DESCRIPTION OF MATERIAL	PLASTIC LMNT	WATER CONTENT	LIQUID LMNT	
		15m			X	0	X	X	
					10	30	50	70	90%
					0.05 m PEAT, thin organics, roots				
1.0	B		1		BEDROCK - weathered - quartz and mica schist - iron and chlorite alterates				
					1.5 m - light brown to brown				
2.0					REFUSAL AT 1.5 m				
3.0									
4.0									
5.0									
6.0									
7.0									



KLOHN LEONOFF
CONSULTING ENGINEERS

JOB No.	PA 2441
PROJECT	AIRPORT AND ACCESS ROAD
LOCATION	DAWSON CITY, Y.T.
HOLE No.	TH - 40
DATE	NOV. 25-29/87 PLATE

TEST HOLE LOG

SAMPLE DATA				SYMBOL	ELEV COLLAR	UNCONFINED COMPRESSION kPa							
WEIGHT HAMMER 63.5 Kg					ELEV GROUND	100 200 300 400							
HEIGHT DROP 0.76 m					CO-ORD. LOCATION As per attached location	● FIELD VANE ▲ LAB VANE ■ UNCONF.							
DEPTH ELEV	O.D. I.D.	BLOWS	NO.	DESCRIPTION OF MATERIAL				PLASTIC LIMIT	WATER CONTENT	LIQUID LIMIT			
		15m						X - - - - X	0	- - - - X			
								10	30	70	90%		
1.0	B		1	0.05 m PEAT, thin organics, roots									
2.0	B		2	BEDROCK - weathered - quartz and mica schist - iron and chlorite alterates - light brown to brown - 30% fragments between 1-3 cm									
3.0													
4.0	B		3					4.2 m					
5.0				REFUSAL AT 4.2 m									
6.0													
7.0													



KLOHN LEONOFF
CONSULTING ENGINEERS

JOB No.	PA 2441
PROJECT	AIRPORT AND ACCESS ROAD
LOCATION	DAWSON CITY, Y.T.
HOLE No.	TH - 41
DATE	NOV. 25-29/87 PLATE

TEST HOLE LOG

SAMPLE DATA				SYMBOL	ELEV COLLAR		UNCONFINED COMPRESSION kPa				
WEIGHT HAMMER 63.5 Kg					ELEV GROUND		100 200 300 400				
HEIGHT DROP 0.76 m					CO-ORD LOCATION As per attached location		● FIELD VANE ▲ LAB VANE ■ UNCONF.				
DEPTH ELEV	O.D. I.D.	BLOWS .15m	NO.		DESCRIPTION OF MATERIAL		PLASTIC LIMIT	WATER CONTENT	LIQUID LIMIT		X
						X	0	X			
						10	30	50	70	90%	
1.0	B		1	0.02 m	PEAT, thin organics, roots						
2.0	B		2	2.8 m	BEDROCK - weathered - quartz and mica schist - iron and chlorite alterates - light brown to brown - blocky - 25% angular fragments 1-3 cm						
3.0						REFUSAL AT 2.8 m					
4.0											
5.0											
6.0											
7.0											



KLOHN LEONOFF
CONSULTING ENGINEERS

JOB No.	PA 2441
PROJECT	AIRPORT AND ACCESS ROAD
LOCATION	DAWSON CITY, Y.T.
HOLE No.	TH - 42
DATE	NOV. 25-29/87 PLATE

TEST HOLE LOG

SAMPLE DATA				SYMBOL	ELEV COLLAR	UNCONFINED COMPRESSION kPa								
WEIGHT HAMMER 63.5 Kg					ELEV GROUND	100 200 300 400								
HEIGHT DROP 0.76 m					CO-ORD LOCATION	● FIELD VANE ▲ LAB VANE ■ UNCONF.								
DEPTH ELEV	O.D. I.D.	BLOWS 15m	NO.		DESCRIPTION OF MATERIAL					PLASTIC LIMIT	WATER CONTENT	LIQUID LIMIT		
										X	0	X		
										10	30	50	70	90%
					0.05 m PEAT, thin organics, roots									
1.0	B		1		BEDROCK - weathered - quartz and mica schist - iron and chlorite alterates - light brown to brown - 20% angular fragments 1-3 cm									
2.0														
3.0	B		2		3.0 m									
4.0					REFUSAL AT 3.0 m									
5.0														
6.0														
7.0														



KLOHN LEONOFF
CONSULTING ENGINEERS

JOB No.	PA 2441
PROJECT	AIRPORT AND ACCESS ROAD
LOCATION	DAWSON CITY, Y.T.
HOLE No.	TH - 43
DATE	NOV. 25-29/87 PLATE

TEST HOLE LOG

SAMPLE DATA				SYMBOL	ELEV COLLAR	UNCONFINED COMPRESSION kPa					
WEIGHT HAMMER 63.5 Kg					ELEV GROUND	100	200	300	400		
HEIGHT DROP 0.76 m					CO-ORD. LOCATION	● FIELD VANE ▲ LAB VANE ■ UNCONF.					
DEPTH ELEV	O.D. I.D.	BLOWS 15m	NO.		DESCRIPTION OF MATERIAL	PLASTIC LIMIT	WATER CONTENT		LIQUID LIMIT		
					X-----X						
					10 30 50 70 90%						
					0.05 m PEAT, thin organics, roots						
1.0	B		1		BEDROCK - weathered - quartz and mica schist - iron and chlorite alterates - light brown to brown - more blocky - 40% angular fragments 0.5 cm to 4 cm						
2.0	B		2								
3.0					- auger broke down, so no sample at bottom of hole						
4.0					3.8 m						
5.0					REFUSAL AT 3.8 m						
6.0											
7.0											



KLOHN LEONOFF
CONSULTING ENGINEERS

JOB No.	PA 2441
PROJECT	AIRPORT AND ACCESS ROAD
LOCATION	DAWSON CITY, Y.T.
HOLE No.	TH - 44
DATE	NOV. 25-29/87 PLATE

TEST HOLE LOG

SAMPLE DATA				SYMBOL	ELEV COLLAR		UNCONFINED COMPRESSION kPa				
WEIGHT HAMMER 63.5 Kg					ELEV GROUND		100 200 300 400				
HEIGHT DROP 0.76 m					CO-ORD. LOCATION As per attached location		● FIELD VANE ▲ LAB VANE ■ UNCONF.				
DEPTH ELEV	O.D. I.D.	BLOWS 15m	NO.		DESCRIPTION OF MATERIAL		PLASTIC LIMIT	WATER CONTENT	LIQUID LIMIT		
						X-----X	0	-----X			
						10	30	50	70	90%	
1.0	B		1	0.05 m PEAT, thin organics, roots							
2.0				BEDROCK - weathered - quartz and mica schist - iron and chlorite alterates - light brown to brown							
3.0	B		2								
4.0				REFUSAL AT 3.0 m							
5.0				Notes: Organics stripped by bulldozer. Proctor sample #1 taken from the hole. Rock sample RS-02-87 collected from surface.							
6.0											
7.0											



KLOHN LEONOFF
CONSULTING ENGINEERS

JOB No.	PA 2441
PROJECT	AIRPORT AND ACCESS ROAD
LOCATION	DAWSON CITY, Y.T.
HOLE No.	TH - 45
DATE	NOV. 25-29/87 PLATE

TEST HOLE LOG

SAMPLE DATA				SYMBOL	ELEV COLLAR		UNCONFINED COMPRESSION kPa														
WEIGHT HAMMER 63.5 Kg					ELEV GROUND		100 200 300 400														
HEIGHT DROP 0.76 m					CO-ORD. LOCATION As per attached location		● FIELD VANE ▲ LAB VANE ■ UNCONF.														
DEPTH ELEV	O.D. T.D.	BLOWS 15m	NO.		DESCRIPTION OF MATERIAL		PLASTIC LIMIT	WATER CONTENT	LIQUID LIMIT												
X	10	30	0	70	80%	X															
1.0	B		1	0.05 m PEAT, thin organics, roots																	
2.0	B		2	BEDROCK - weathered - quartz and mica schist - iron and chlorite alterates - light brown to brown																	
3.0																					
4.0	B		3			4.2 m															
5.0				REFUSAL AT 4.2 m																	
6.0																					
7.0																					



KLOHN LEONOFF
CONSULTING ENGINEERS

JOB No.	PA 2441
PROJECT	AIRPORT AND ACCESS ROAD
LOCATION	DAWSON CITY, Y.T.
HOLE No.	TH - 46
DATE	NOV. 25-29/87 PLATE

TEST HOLE LOG

SAMPLE DATA				SYMBOL	ELEV COLLAR	UNCONFINED COMPRESSION kPa									
WEIGHT HAMMER 63.5 Kg					ELEV GROUND	100 200 300 400 ● FIELD VANE ▲ LAB VANE ■ UNCONF.									
HEIGHT DROP 0.76 m					CO-ORD. LOCATION	As per attached location									
DEPTH ELEV	O.D. T.D.	BLOWS 1.5m	NO.		DESCRIPTION OF MATERIAL	PLASTIC LIMIT	WATER CONTENT		LIQUID LIMIT						
					X	10	30	0	50	70	90	X			
				0.5 m	PEAT, thin organics, roots										
1.0	B		1		BEDROCK - weathered - quartz and mica schist - iron and chlorite alterates - light brown to brown - 40% angular fragments										
2.0			2												
3.0	B		3												
4.0	B			4.2 m	REFUSAL AT 4.2 m										
5.0															
6.0															
7.0															



KLOHN LEONOFF
CONSULTING ENGINEERS

JOB No.	PA 2441
PROJECT	AIRPORT AND ACCESS ROAD
LOCATION	DAWSON CITY, Y.T.
HOLE No.	TH - 47
DATE	NOV. 25-29/87 PLATE

TEST HOLE LOG

SAMPLE DATA				SYMBOL	ELEV COLLAR	UNCONFINED COMPRESSION kPa								
WEIGHT HAMMER 63.5 Kg					ELEV GROUND	100	200	300	400					
HEIGHT DROP 0.76 m					CO-ORD. LOCATION As per attached location	● FIELD VANE		Δ LAB VANE	■ UNCONF					
DEPTH ELEV	O.D. I.D.	BLOWS 15m	NO.		DESCRIPTION OF MATERIAL	PLASTIC LIMIT	WATER CONTENT		LIQUID LIMIT					
				X		0	X		10	30	60	70	90%	
1.0	B		1	0.05 m PEAT, thin organics, roots BEDROCK - weathered - quartz and mica schist - iron and chlorite alterates - light brown to brown										
2.0														
3.0	B		2											
4.0	B		3											
5.0	B		4	4.9 m										
6.0				REFUSAL AT 4.9 m										
7.0														



KLOHN LEONOFF
CONSULTING ENGINEERS

JOB No.	PA 2441
PROJECT	AIRPORT AND ACCESS ROAD
LOCATION	DAWSON CITY, Y.T.
HOLE No.	TH - 48
DATE	NOV. 25-29/87 PLATE

TEST HOLE LOG

SAMPLE DATA				SYMBOL	ELEV COLLAR	UNCONFINED COMPRESSION kPa									
WEIGHT HAMMER 63.5 Kg					ELEV GROUND	100 200 300 400									
HEIGHT DROP 0.76 m					CO-ORD LOCATION	● FIELD VANE ▲ LAB VANE ■ UNCONF									
DEPTH ELEV	O.D. I.D.	BLOWS 15m	NO.		DESCRIPTION OF MATERIAL					PLASTIC LIMIT	WATER CONTENT	LIQUID LIMIT			
										X-----X	0	X-----X			
										10	30	50	70	90%	
					0.02 m	PEAT, thin organics, roots									
1.0	B		1		BEDROCK - weathered - quartz and mica schist - iron and chlorite alterates - light brown to brown - hard drilling from 3.0 - 3.5 m - easy drilling from 3.5 - 6.0 m										
2.0															
3.0	B		2												
4.0															
5.0	B		3												
6.0															
	B		4		6.0 m										
7.0					END OF HOLE										



KLOHN LEONOFF
CONSULTING ENGINEERS

JOB No.	PA 2441
PROJECT	AIRPORT AND ACCESS ROAD
LOCATION	DAWSON CITY, Y.T.
HOLE No.	TH - 49
DATE	NOV. 25-29/87 PLATE

TEST HOLE LOG

SAMPLE DATA				SYMBOL	ELEV COLLAR	UNCONFINED COMPRESSION kPa					
WEIGHT HAMMER 63.5 Kg					ELEV GROUND	100	200	300	400		
HEIGHT DROP 0.76 m					CO-ORD. LOCATION As per attached location	● FIELD VANE Δ LAB VANE ■ UNCONF.					
DEPTH ELEV	O.D. I.D.	BLOWS 15m	NO.		DESCRIPTION OF MATERIAL	PLASTIC LIMIT	WATER CONTENT		LIQUID LIMIT		
					X-----X	0-----0		-----X			
					10	30	60	70	90%		
					0.05 m PEAT, thin organics, roots						
1.0	B		1	BEDROCK - weathered - quartz and mica schist - iron and chlorite alterates - light brown to brown - first 0.5m mixed with organics							
2.0											
3.0	B		2								
4.0	B		3		- hard drilling 4.1 to 4.4 m						
5.0	B		4	5.0 m							
6.0				REFUSAL AT 5.0 m							
7.0											



KLOHN LEONOFF
CONSULTING ENGINEERS

JOB No.	PA 2441
PROJECT	AIRPORT AND ACCESS ROAD
LOCATION	DAWSON CITY, Y.T.
HOLE No.	TH - 50
DATE	NOV. 25-29/87 PLATE

TEST HOLE LOG

SAMPLE DATA				SYMBOL	ELEV COLLAR		UNCONFINED COMPRESSION kPa			
WEIGHT HAMMER 63.5 Kg					ELEV GROUND		100	200	300	400
HEIGHT DROP 0.76 m					CO-ORD. LOCATION As per attached location		● FIELD VANE ▲ LAB VANE ■ UNCONF.			
DEPTH ELEV	O.D. I.D.	BLOWS 15m	NO.		DESCRIPTION OF MATERIAL		PLASTIC LIMIT	WATER CONTENT	LIQUID LIMIT	
				X			0	X	X	
						10	30	60	70	90%
1.0	B		1	0.5 m BEDROCK - weathered - quartz and mica schist - iron and chlorite alterates - light brown to brown - hard drilling						
2.0				REFUSAL AT 0.5 m						
3.0										
4.0										
5.0										
6.0										
7.0										



KLOHN LEONOFF
CONSULTING ENGINEERS

JOB No.	PA 2441
PROJECT	AIRPORT AND ACCESS ROAD
LOCATION	DAWSON CITY, Y.T.
HOLE No.	TH - 51
DATE	NOV. 25-29/87 PLATE

TEST HOLE LOG

SAMPLE DATA				SYMBOL	ELEV COLLAR	UNCONFINED COMPRESSION kPa							
WEIGHT HAMMER 63.5 Kg					ELEV GROUND	100	200	300	400				
HEIGHT DROP 0.76 m					CO-ORD LOCATION	● FIELD VANE	△ LAB VANE	■ UNCONF.					
DEPTH ELEV	O.D. I.D.	BLOWS .15m	NO.	DESCRIPTION OF MATERIAL					PLASTIC LIMIT	WATER CONTENT	LIQUID LIMIT		
									x	0	x		
									10	30	50	70	90%
1.0	B		1	0.05 m PEAT, thin organics, roots									
2.0	B		2	BEDROCK - weathered - quartz and mica schist - iron and chlorite alterates - light brown to brown									
3.0													
4.0	B		3										
5.0	B		4						4.8 m				
6.0				REFUSAL AT 4.8 m									
7.0													



KLOHN LEONOFF
CONSULTING ENGINEERS

JOB No. PA 2441
 PROJECT AIRPORT AND ACCESS ROAD
 LOCATION DAWSON CITY, Y.T.
 HOLE No. TH - 52
 DATE NOV. 25-29/87 PLATE

TEST HOLE LOG

SAMPLE DATA				SYMBOL	ELEV. COLLAR	UNCONFINED COMPRESSION kPa							
WEIGHT HAMMER 63.5 Kg					ELEV. GROUND	100 200 300 400							
HEIGHT DROP 0.76 m					CO-ORD. LOCATION	● FIELD VANE ▲ LAB VANE ■ UNCONF.							
DEPTH ELEV	O.D. I.D.	BLOWS 15m	NO.		DESCRIPTION OF MATERIAL					PLASTIC LIMIT	WATER CONTENT	LIQUID LIMIT	
									X	0	X		
									10	30	50	70	90%
1.0	B		1	0.05 m PEAT, thin organics, roots									
2.0	B		2	BEDROCK - weathered - quartz and mica schist - iron and chlorite alterates - light brown to brown									
3.0	B		3										
4.0	B		3	- hard drilling from 3.5 to 4.5 m									
5.0				4.5 m									
6.0				REFUSAL AT 4.5 m									
7.0													



KLOHN LEONOFF
CONSULTING ENGINEERS

JOB No.	PA 2441
PROJECT	AIRPORT AND ACCESS ROAD
LOCATION	DAWSON CITY, Y.T.
HOLE No.	TH - 53
DATE	NOV. 25-29/87 PLATE

TEST HOLE LOG

SAMPLE DATA				SYMBOL	ELEV COLLAR	UNCONFINED COMPRESSION kPa				
WEIGHT HAMMER 63.5 Kg					ELEV GROUND	100 200 300 400				
HEIGHT DROP 0.76 m					CO-ORD. LOCATION	● FIELD VANE ▲ LAB VANE ■ UNCONF.				
DEPTH ELEV	O.D. I.D.	BLOWS 15m	NO.		DESCRIPTION OF MATERIAL	PLASTIC LIMIT	WATER CONTENT		LIQUID LIMIT	
					X-----X 10 30 60 70 90%					
					0.05 m PEAT, thin organics, roots					
1.0	B		1		BEDROCK - weathered - quartz and mica schist - iron and chlorite alterates - light brown to brown					
2.0										
	B		2		- hard drilling from 2.5 to 3.0 m					
3.0				3.0 m						
					REFUSAL AT 3.0 m					
4.0										
5.0										
6.0										
7.0										



KLOHN LEONOFF
CONSULTING ENGINEERS

JOB No.	PA 2441
PROJECT	AIRPORT AND ACCESS ROAD
LOCATION	DAWSON CITY, Y.T.
HOLE No.	TH - 54
DATE	NOV. 25-29/87 PLATE

TEST HOLE LOG

SAMPLE DATA				SYMBOL	ELEV COLLAR	UNCONFINED COMPRESSION kPa			
WEIGHT HAMMER 63.5 Kg					ELEV GROUND	100 200 300 400			
HEIGHT DROP 0.76 m					CO-ORD. LOCATION As per attached location	● FIELD VANE ▲ LAB VANE ■ UNCONF.			
DEPTH ELEV	O.D. I.D.	BLOWS 15m	NO.		DESCRIPTION OF MATERIAL	PLASTIC LIMIT	WATER CONTENT		LIQUID LIMIT
					X-----X 10 30 50 70 90%				
					0.05 m PEAT, thin organics, roots				
1.0	B		1	2.0 m	BEDROCK - weathered - quartz and mica schist - iron and chlorite alterates - light brown to brown - 30% angular fragments up to 4 cm - hard drilling 1.5 - 2.0 m				
2.0	B		2						
3.0					REFUSAL AT 2.0 m				
4.0									
5.0									
6.0									
7.0									



KLOHN LEONOFF
CONSULTING ENGINEERS

JOB No.	PA 2441
PROJECT	AIRPORT AND ACCESS ROAD
LOCATION	DAWSON CITY, Y.T.
HOLE No.	TH - 55
DATE	NOV. 25-29/87 PLATE

TEST HOLE LOG

SAMPLE DATA				SYMBOL	ELEV COLLAR	UNCONFINED COMPRESSION kPa				
WEIGHT HAMMER 63.5 Kg					ELEV GROUND	100 200 300 400				
HEIGHT DROP 0.76 m					CO-ORD. LOCATION	● FIELD VANE ▲ LAB VANE ■ UNCONF.				
DEPTH ELEV	O.D. I.D.	BLOWS 1.5m	NO.		DESCRIPTION OF MATERIAL	PLASTIC LIMIT	WATER CONTENT		LIQUID LIMIT	
					X-----X	0	0	0	X	
						10	30	50	70	90%
					0.05 m PEAT, thin organics, roots					
1.0	B		1	BEDROCK - weathered - quartz and mica schist - iron and chlorite alterates - light brown to brown						
2.0	B		2							
3.0	B		3							
4.0	B			4.0 m						
5.0				REFUSAL AT 4.0 m						
6.0										
7.0										



KLOHN LEONOFF
CONSULTING ENGINEERS

JOB No.	PA 2441
PROJECT	AIRPORT AND ACCESS ROAD
LOCATION	DAWSON CITY, Y.T.
HOLE No.	TH - 56
DATE	NOV. 25-29/87 PLATE

TEST HOLE LOG

SAMPLE DATA				SYMBOL	ELEV COLLAR	UNCONFINED COMPRESSION kPa						
WEIGHT HAMMER 63.5 Kg					ELEV GROUND	100 200 300 400						
HEIGHT DROP 0.76 m					CO-ORD. LOCATION As per attached location	<input type="checkbox"/> FIELD VANE <input type="checkbox"/> LAB VANE <input type="checkbox"/> UNCONF.						
DEPTH ELEV	O.D. I.D.	BLOWS 15m	NO.	DESCRIPTION OF MATERIAL					PLASTIC LIMIT	WATER CONTENT	LIQUID LIMIT	
									X	0	X	
									10	30	70	90%
1.0	B		1	0.05 m PEAT, thin organics, roots								
2.0	B		2	BEDROCK - weathered - quartz and mica schist - iron and chlorite alterates - light brown to brown								
3.0												
4.0	B		3									
5.0				4.5 m								
6.0				REFUSAL AT 4.5 m.								
7.0												



KLOHN LEONOFF
CONSULTING ENGINEERS

JOB No.	PA 2441
PROJECT	AIRPORT AND ACCESS ROAD
LOCATION	DAWSON CITY, Y.T.
HOLE No.	TH - 57
DATE	NOV. 25-29/87 PLATE

TEST HOLE LOG

SAMPLE DATA				SYMBOL	ELEV COLLAR	UNCONFINED COMPRESSION kPa				
WEIGHT HAMMER 63.5 Kg					ELEV GROUND	100 200 300 400				
HEIGHT DROP 0.76 m					CO-ORD. LOCATION	● FIELD VANE ▲ LAB VANE ■ UNCONF.				
DEPTH ELEV	O.D. I.D.	BLOWS 15m	NO.		DESCRIPTION OF MATERIAL	PLASTIC LMT	WATER CONTENT		LIQUID LIMIT	
					X-----X					
					10 30 60 70 90%					
					0.05 m	PEAT, thin organics, roots				
1.0	B		1							
2.0	B		2							
3.0	B		3							
4.0	B		4							
5.0	B		4	5.0 m	REFUSAL AT 5.0 m					
6.0										
7.0										



KLOHN LEONOFF
CONSULTING ENGINEERS

JOB No.	PA 2441
PROJECT	AIRPORT AND ACCESS ROAD
LOCATION	DAWSON CITY, Y.T.
HOLE No.	TH - 58
DATE	NOV. 25-29/87 PLATE

TEST HOLE LOG

SAMPLE DATA				SYMBOL	ELEV COLLAR		UNCONFINED COMPRESSION kPa															
WEIGHT HAMMER 63.5 Kg					ELEV GROUND		100 200 300 400															
HEIGHT DROP 0.76 m					CO-ORD. LOCATION As per attached location		● FIELD VANE ▲ LAB VANE ■ UNCONF.															
DEPTH ELEV	O.D. T.D.	BLOWS .15m	NO.		DESCRIPTION OF MATERIAL		PLASTIC LIMIT	WATER CONTENT		LIQUID LIMIT												
				X			0	X		10	30	50	70	90 %								
					0.05 m	PEAT, thin organics, roots																
1.0	B		1			BEDROCK - weathered - quartz and mica schist - iron and chlorite alterates - light brown to brown																
2.0																						
3.0	B		2																			
4.0	B		3		4.0 m	REFUSAL AT 4.0 m																
5.0																						
6.0																						
7.0																						



KLOHN LEONOFF
CONSULTING ENGINEERS

JOB No.	PA 2441
PROJECT	AIRPORT AND ACCESS ROAD
LOCATION	DAWSON CITY, Y.T.
HOLE No.	TH - 59
DATE	NOV. 25-29/87 PLATE

TEST HOLE LOG

SAMPLE DATA				SYMBOL	ELEV COLLAR		UNCONFINED COMPRESSION kPa				
WEIGHT HAMMER 63.5 Kg					ELEV GROUND		100 200 300 400				
HEIGHT DROP 0.76 m					CO-ORD. LOCATION As per attached location		● FIELD VANE ▲ LAB VANE ■ UNCONF.				
DEPTH ELEV.	O.D. I.D.	BLOWS .15m	NO.		DESCRIPTION OF MATERIAL		PLASTIC LIMIT	WATER CONTENT	LIQUID LIMIT		
						X-----X	0	-----X			
						10	30	50	70	90%	
1.0	B		1	0.03 m	PEAT, thin organics, roots						
2.0					BEDROCK - weathered - quartz and mica schist - iron and chlorite alterates - light brown to brown						
3.0	B		2	3.0 m							
4.0					REFUSAL AT 3.0 m						
5.0											
6.0											
7.0											



KLOHN LEONOFF
CONSULTING ENGINEERS

JOB No.	PA 2441
PROJECT	AIRPORT AND ACCESS ROAD
LOCATION	DAWSON CITY, Y.T.
HOLE No.	TH - 60
DATE	NOV. 25-29/87 PLATE

TEST HOLE LOG

SAMPLE DATA				SYMBOL	ELEV COLLAR		UNCONFINED COMPRESSION kPa						
WEIGHT HAMMER 63.5 kg					ELEV GROUND		100 200 300 400						
HEIGHT DROP 0.76 m					CO-ORD. LOCATION		● FIELD VANE ▲ LAB VANE ■ UNCONF.						
DEPTH ELEV	O.D. I.D.	BLOWS 15m	NO.		DESCRIPTION OF MATERIAL		PLASTIC LIMIT	WATER CONTENT	LIQUID LIMIT				
						X-----X	-----0-----	10	30	60	70	90%	
				0.05 m	PEAT, thin organics, roots								
1.0	B		1		BEDROCK - weathered - quartz and mica schist - iron and chlorite alterates - light brown to brown - more iron oxidation evident through increased reddish-brown color								
2.0													
	B		2										
3.0				3.0 m	REFUSAL AT 3.0 m								
4.0													
5.0													
6.0													
7.0													



KLOHN LEONOFF
CONSULTING ENGINEERS

JOB No.	PA 2441
PROJECT	AIRPORT AND ACCESS ROAD
LOCATION	DAWSON CITY, Y.T.
HOLE No.	TH - 61
DATE	NOV. 25-29/87 PLATE

TEST HOLE LOG

SAMPLE DATA				SYMBOL	ELEV COLLAR	UNCONFINED COMPRESSION kPa					
WEIGHT HAMMER 63.5 Kg					ELEV GROUND	100	200	300	400		
HEIGHT DROP 0.76 m					CO-ORD. LOCATION	● FIELD VANE ▲ LAB VANE ■ UNCONF.					
DEPTH ELEV	O.D. I.D.	BLOWS 15m	NO.		DESCRIPTION OF MATERIAL	PLASTIC LIMIT	WATER CONTENT	LIQUID LIMIT			
					X-----X	0	-----X				
					10	30	60	70	90%		
				0.03 m	PEAT, thin organics, roots						
1.0	B		1	BEDROCK - weathered - quartz and mica schist - iron and chlorite alterates - light brown to brown - turning to reddish brown							
2.0	B		2								
				2.5 m	REFUSAL AT 2.5 m						
3.0											
4.0											
5.0											
6.0											
7.0											



KLOHN LEONOFF
CONSULTING ENGINEERS

JOB No.	PA 2441
PROJECT	AIRPORT AND ACCESS ROAD
LOCATION	DAWSON CITY, Y.T.
HOLE No.	TH - 62
DATE	NOV. 25-29/87 PLATE

TEST HOLE LOG

SAMPLE DATA				SYMBOL	ELEV COLLAR	UNCONFINED COMPRESSION kPa												
WEIGHT HAMMER 63.5 Kg					ELEV GROUND	100 200 300 400												
HEIGHT DROP 0.76 m					CO-ORD. LOCATION	● FIELD VANE ▲ LAB VANE ■ UNCONF.												
DEPTH ELEV.	O.D. I.D.	BLOWS 15m	NO.		DESCRIPTION OF MATERIAL					PLASTIC LIMIT	WATER CONTENT	LIQUID LIMIT						
										X-----X	0	X						
										10	30	50	70	90%				
					0.05 m	PEAT, thin organics, roots												
1.0	B		1			BEDROCK - weathered - quartz and mica schist - iron and chlorite alterates - light brown to brown												
2.0	B		2															
					2.3 m													
3.0					REFUSAL AT 2.3 m													
4.0																		
5.0																		
6.0																		
7.0																		



KLOHN LEONOFF
CONSULTING ENGINEERS

JOB No.	PA 2441
PROJECT	AIRPORT AND ACCESS ROAD
LOCATION	DAWSON CITY, Y.T.
HOLE No.	TH - 63
DATE	NOV. 25-29/87 PLATE

TEST HOLE LOG

SAMPLE DATA				SYMBOL	ELEV COLLAR	UNCONFINED COMPRESSION kPa				
WEIGHT HAMMER 63.5 Kg					ELEV GROUND	100 200 300 400 ● FIELD VANE ▲ LAB VANE ■ UNCONF.				
HEIGHT DROP 0.76 m					CO-ORD. LOCATION	PLASTIC LIMIT WATER CONTENT LIQUID LIMIT X-----X 10 30 50 70 90%				
DEPTH ELEV	O.D. I.D.	BLOWS .15m	NO.		DESCRIPTION OF MATERIAL					
					0.05 m	PEAT, thin organics, roots				
1.0	B		1			BEDROCK - weathered - quartz and mica schist - iron and chlorite alterates - light brown to brown - hard drilling from 2.0 to 3.0m - more moisture than usual in material				
2.0	B		2							
3.0	B		3							
4.0	B		4							
5.0	B		4		5.0 m	REFUSAL AT 5.0 m				
6.0										
7.0										



KLOHN LEONOFF
CONSULTING ENGINEERS

JOB No. PA 2441
 PROJECT AIRPORT AND ACCESS ROAD
 LOCATION DAWSON CITY, Y.T.
 HOLE No. TH - 64
 DATE NOV. 25-29/87-PLATE

TEST HOLE LOG

SAMPLE DATA				SYMBOL	ELEV COLLAR	UNCONFINED COMPRESSION kPa														
WEIGHT HAMMER 63.5 Kg					ELEV GROUND	100 200 300 400 ● FIELD VANE ▲ LAB VANE ■ UNCONF.														
HEIGHT DROP 0.76 m					CO-ORD. LOCATION	PLASTIC WATER LIQUID LIMIT CONTENT LIMIT X-----X 10 30 50 70 90%														
DEPTH ELEV	O.D. I.D.	BLOWS 1.5m	NO.		DESCRIPTION OF MATERIAL															
				0.05 m	PEAT, thin organics, roots															
1.0	B		1	BEDROCK - weathered - altered schist and quartzite - dark brown to black - easy drilling throughout																
2.0	B		2																	
3.0	B		3																	
4.0	B		4																	
5.0	B																			
6.0				6.0 m																
7.0					END OF HOLE															



KLOHN LEONOFF
CONSULTING ENGINEERS

JOB No.	PA 2441
PROJECT	AIRPORT AND ACCESS ROAD
LOCATION	DAWSON CITY, Y.T.
HOLE No.	TH - 65
DATE	NOV. 25-29/87 PLATE

TEST HOLE LOG

SAMPLE DATA				SYMBOL	ELEV COLLAR	UNCONFINED COMPRESSION kPa								
WEIGHT HAMMER 63.5 Kg					ELEV GROUND	100 200 300 400								
HEIGHT DROP 0.76 m					CO-ORD LOCATION As per attached location	● FIELD VANE △ LAB VANE ■ UNCONF.								
DEPTH ELEV	O.D. I.D.	BLOWS .15m	NO.		DESCRIPTION OF MATERIAL					PLASTIC LIMIT	WATER CONTENT	LIQUID LIMIT		
										X	0	X		
										10	30	50	70	90%
1.0	B		1	0.05 m PEAT, thin organics, roots										
2.0	B		2	BEDROCK - weathered - altered schist and quartzite - dark brown to black - easy drilling throughout										
3.0														
4.0														
5.0														
6.0	B		4	6.0 m										
7.0				END OF HOLE										



KLOHN LEONOFF
CONSULTING ENGINEERS

JOB No.	PA 2441
PROJECT	AIRPORT AND ACCESS ROAD
LOCATION	DAWSON CITY, Y.T.
HOLE No.	TH - 66
DATE	NOV. 25-29/87 PLATE

TEST HOLE LOG

SAMPLE DATA				SYMBOL	ELEV COLLAR		UNCONFINED COMPRESSION kPa				
WEIGHT HAMMER 63.5 Kg					ELEV GROUND		100 200 300 400 ● FIELD VANE ▲ LAB VANE ■ UNCONF.				
HEIGHT DROP 0.76 m					CO-ORD. LOCATION		PLASTIC LIMIT		WATER CONTENT		LIQUID LIMIT
DEPTH ELEV	O.D. I.D.	BLOWS 15m	NO.		DESCRIPTION OF MATERIAL		X-----X	0	0	-----X	
				10			30	60	70	90%	
					0.05 m	PEAT, thin organics, roots					
1.0	B		1		6.0 m	BEDROCK - weathered - altered schist and quartzite - dark brown to black - easy drilling to 3.5 m - hard drilling to end of hole at 6.0 m					
2.0	B		2								
3.0											
4.0	B		3								
5.0											
6.0	B		4								
7.0						END OF HOLE					



KLOHN LEONOFF
CONSULTING ENGINEERS

JOB No.	PA 2441
PROJECT	AIRPORT AND ACCESS ROAD
LOCATION	DAWSON CITY, Y.T.
HOLE No.	TH - 67
DATE	NOV. 25-29/87 PLATE

TEST HOLE LOG

SAMPLE DATA				SYMBOL	ELEV COLLAR	UNCONFINED COMPRESSION kPa					
WEIGHT HAMMER 63.5 Kg					ELEV GROUND	100	200	300	400		
HEIGHT DROP 0.76 m					CO-ORD. LOCATION	● FIELD VANE ▲ LAB VANE ■ UNCONF.					
DEPTH ELEV	O.D. I.D.	BLOWS 1.5m	NO.		DESCRIPTION OF MATERIAL	PLASTIC LIMIT	WATER CONTENT		LIQUID LIMIT		
					X-----X 10 30 60 70 90%						
					0.05 m	PEAT, thin organics, roots					
1.0	B		1		6.0 m	BEDROCK - weathered - altered schist and quartzite - dark brown to black - easy drilling to 5.5 m					
2.0	B		2								
3.0	B		3								
4.0	B		4								
5.0	B										
6.0					6.0 m						
7.0						END OF HOLE					



KLOHN LEONOFF
CONSULTING ENGINEERS

JOB No.	PA 2441
PROJECT	AIRPORT AND ACCESS ROAD
LOCATION	DAWSON CITY, Y.T.
HOLE No.	TH - 68
DATE	NOV. 25-29/87 PLATE

TEST HOLE LOG

SAMPLE DATA				SYMBOL	ELEV COLLAR	UNCONFINED COMPRESSION kPa									
WEIGHT HAMMER 63.5 kg					ELEV GROUND	100	200	300	400						
HEIGHT DROP 0.76 m					CO-ORD LOCATION	● FIELD VANE ▲ LAB VANE ■ UNCONF.									
DEPTH ELEV	O.D. T.D.	BLOWS 15m	NO.		DESCRIPTION OF MATERIAL					PLASTIC LIMIT	WATER CONTENT	LIQUID LIMIT			
										X	0	X			
										10	30	50	70	90%	
					0.05 m	PEAT, thin organics, roots									
1.0	B		1			BEDROCK - weathered - altered schist and quartzite - dark brown to black - easy drilling throughout									
2.0	B		2												
3.0	B		3												
4.0	B		4												
5.0															
6.0	B		4		6.0 m										
7.0						END OF HOLE									



KLOHN LEONOFF
CONSULTING ENGINEERS

JOB No.	PA 2441
PROJECT	AIRPORT AND ACCESS ROAD
LOCATION	DAWSON CITY, Y.T.
HOLE No.	TH - 69
DATE	NOV. 25-29/87 PLATE

TEST HOLE LOG

SAMPLE DATA				SYMBOL	ELEV COLLAR		UNCONFINED COMPRESSION kPa				
WEIGHT HAMMER 63.5 Kg					ELEV GROUND		100 200 300 400				
HEIGHT DROP 0.76 m					CO-ORD. LOCATION As per attached location		● FIELD VANE		△ LAB VANE		■ UNCONF.
DEPTH ELEV	O.D. I.D.	BLOWS .15m	NO.		DESCRIPTION OF MATERIAL		PLASTIC LIMIT	WATER CONTENT		LIQUID LIMIT	
				X-----X			0	0	X		
						10	30	60	70	90%	
					0.05 m	PEAT, thin organics, roots					
1.0	B		1			BEDROCK - weathered - altered schist and quartzite - dark brown to black					
2.0	B		2								
3.0											
4.0					4.3 m						
5.0					END OF HOLE						
6.0					Notes: Auger and bit lost in hole therefore no sample recovered from 3.0 m to 4.3 m.						
7.0											



KLOHN LEONOFF
CONSULTING ENGINEERS

JOB No.	PA 2441
PROJECT	AIRPORT AND ACCESS ROAD
LOCATION	DAWSON CITY, Y.T.
HOLE No.	TH - 70
DATE	NOV. 25-29/87 PLATE

TEST HOLE LOG

SAMPLE DATA				SYMBOL	ELEV COLLAR		UNCONFINED COMPRESSION kPa													
WEIGHT HAMMER 63.5 Kg					ELEV GROUND		100 200 300 400 ● FIELD VANE ▲ LAB VANE ■ UNCONF.													
HEIGHT DROP 0.76 m					CO-ORD. LOCATION As per attached location		PLASTIC LIMIT		WATER CONTENT		LIQUID LIMIT									
DEPTH ELEV	O.D. I.D.	BLOWS 15m	NO.		DESCRIPTION OF MATERIAL		X-----X		0-----0		-----X									
				10			30	50	70	90%										
				0.05 m	PEAT, thin organics, roots															
1.0	B		1		BEDROCK - weathered - quartz and mica schist - iron and chlorite alterates - light brown to brown - angular fragments 0.5 to 1.0 m															
2.0	B		2																	
3.0																				
4.0	B		3																	
5.0	B		4		- easy drilling to 5.0 m - hard drilling from 5.0 to 6.0 m															
6.0				6.0 m																
7.0					END OF HOLE															



KLOHN LEONOFF
CONSULTING ENGINEERS

JOB No.	PA 2441
PROJECT	AIRPORT AND ACCESS ROAD
LOCATION	DAWSON CITY, Y.T.
HOLE No.	TH - 71
DATE	NOV. 25-29/87 PLATE

TEST HOLE LOG

SAMPLE DATA				SYMBOL	ELEV COLLAR	UNCONFINED COMPRESSION kPa					
WEIGHT HAMMER 63.5 Kg					ELEV GROUND	100	200	300	400		
HEIGHT DROP 0.76 m					CO-ORD LOCATION	● FIELD VANE ▲ LAB VANE ■ UNCONF.					
DEPTH ELEV	O.D. I.D.	BLOWS .15m	NO.		CO-ORD LOCATION	DESCRIPTION OF MATERIAL	PLASTIC LIMIT	WATER CONTENT	LIQUID LIMIT		
						X	0	X			
						10	30	50	70	90%	
1.0	B		1		<p>SILT</p> <ul style="list-style-type: none"> - trace clay and sand - non to low plastic - grey <p style="text-align: center;">- turning to brownish grey</p> <ul style="list-style-type: none"> - more dense past 4.5 m - more clay - still low plastic 						○
2.0											
3.0	B		2								○
4.0	B		3								○
5.0											
6.0	B		4							○	
6.0				6.0 m							
7.0					END OF HOLE						



KLOHN LEONOFF
CONSULTING ENGINEERS

JOB No.	PA 2441
PROJECT	AIRPORT AND ACCESS ROAD
LOCATION	DAWSON CITY, Y.T.
HOLE No.	TH - 72
DATE	NOV. 25-29/87 PLATE

TEST HOLE LOG

SAMPLE DATA				SYMBOL	ELEV COLLAR	UNCONFINED COMPRESSION kPa				
WEIGHT HAMMER 63.5 Kg					ELEV GROUND	100 200 300 400				
HEIGHT DROP 0.76 m					CO-ORD LOCATION	● FIELD VANE ▲ LAB VANE ■ UNCONF.				
DEPTH ELEV	O.D T.D.	BLOWS 15m	NO.		DESCRIPTION OF MATERIAL	PLASTIC LIMIT X	WATER CONTENT 0			LIQUID LIMIT X
					10	30	60	70	90%	
1.0	B		1	1.0 m	SILT - trace to little clay and sand - trace gravel - non to low plastic - greyish brown					
2.0	B		2		GRAVEL - to 50 mm - well graded - rounded to subrounded - little sand - well graded - trace silt - brown					
3.0										
4.0	B		3							
5.0										
6.0	B		4	6.0 m	- sample taken below water table					
7.0					END OF HOLE					



KLOHN LEONOFF
CONSULTING ENGINEERS

JOB No.	PA 2441
PROJECT	AIRPORT AND ACCESS ROAD
LOCATION	DAWSON CITY, Y.T.
HOLE No.	TH - 73
DATE	NOV. 25-29/87 PLATE

TEST HOLE LOG

SAMPLE DATA				SYMBOL	ELEV COLLAR		UNCONFINED COMPRESSION kPa								
WEIGHT HAMMER 63.5 Kg					ELEV GROUND		100 200 300 400								
HEIGHT DROP 0.76 m					CO-ORD. LOCATION As per attached location		● FIELD VANE		△ LAB VANE		■ UNCONF.				
DEPTH ELEV	O.D. I.D.	BLOWS 15m	NO.		DESCRIPTION OF MATERIAL			PLASTIC LMNT	WATER CONTENT	LIQUID LIMIT					
							X	0	X	10	30	60	70	90 %	
1.0	B		1	FILL - wood chips - trace silt - brown 1.5 m					○						
2.0	B		2	SILT - organics - trace sand - black - frozen below 1.5 m											
3.0				- no ice visible before 3.5 m											
4.0	B		3	- visible ice crystals from 4.0 to 5.0 m					○						
5.0	B		4	- 50% (estimated) ice from 5.0 to 7.0 m											
6.0				- little sand at 6.0 m - pieces of wood											
7.0	B		5	7.0 m											
				END OF HOLE											
				Notes: Stopped drilling to avoid freezing of auger.											



KLOHN LEONOFF
CONSULTING ENGINEERS

JOB No.	PA 2441
PROJECT	AIRPORT AND ACCESS ROAD
LOCATION	DAWSON CITY, Y.T.
HOLE No.	TH - 74
DATE	NOV. 25-29/87 PLATE

TEST HOLE LOG

SAMPLE DATA				SYMBOL	ELEV COLLAR	UNCONFINED COMPRESSION kPa					
WEIGHT HAMMER 63.5 Kg					ELEV GROUND	100 200 300 400 ● FIELD VANE Δ LAB VANE ■ UNCONF.					
HEIGHT DROP 0.76 m					CO-ORD. LOCATION	PLASTIC WATER LIQUID LMNT CONTENT LMNT X-----0-----X 10 30 50 70 90%					
DEPTH	O.D.	BLOWS	NO.		DESCRIPTION OF MATERIAL						
ELEV	I.D.	/15m									
				0.05 m	PEAT, thin organics, roots						
1.0	B		1		BEDROCK - weathered - altered schist and quartzite - dark brown to black						
2.0											
3.0	B		2								
4.0											
5.0	B		3								
6.0	B		4								
				6.0 m							
7.0					END OF HOLE						



KLOHN LEONOFF
CONSULTING ENGINEERS

JOB No.	PA 2441
PROJECT	AIRPORT AND ACCESS ROAD
LOCATION	DAWSON CITY, Y.T.
HOLE No.	TH - 75
DATE	NOV. 25-29/87 PLATE

TEST HOLE LOG

SAMPLE DATA				SYMBOL	ELEV COLLAR	UNCONFINED COMPRESSION kPa								
WEIGHT HAMMER 63.5 Kg					ELEV GROUND	100 200 300 400								
HEIGHT DROP 0.76 m					CO-ORD. LOCATION	● FIELD VANE ▲ LAB VANE ■ UNCONF.								
DEPTH ELEV	O.D. I.D.	BLOWS 15m	NO.		DESCRIPTION OF MATERIAL				PLASTIC LIMIT	WATER CONTENT	LIQUID LIMIT			
								X-----X	0	0	X			
								10	30	60	70	90%		
1.0	B		1	0.05 m PEAT, thin organics, roots										
2.0	B		2	BEDROCK - weathered - altered schist and quartzite - grey to light brown - easy drilling to 6.0 m										
3.0														
4.0	B		3											
5.0														
6.0	B		4	6.0 m										
7.0				END OF HOLE										



KLOHN LEONOFF
CONSULTING ENGINEERS

JOB No.	PA 2441
PROJECT	AIRPORT AND ACCESS ROAD
LOCATION	DAWSON CITY, Y.T.
HOLE No.	TH - 76
DATE	NOV. 25-29/87 PLATE

TEST HOLE LOG

SAMPLE DATA				SYMBOL	ELEV COLLAR		UNCONFINED COMPRESSION kPa					
WEIGHT HAMMER 63.5 Kg					ELEV GROUND		100 200 300 400					
HEIGHT DROP 0.76 m					CO-ORD. LOCATION As per attached location		● FIELD VANE		△ LAB VANE		■ UNCONF.	
DEPTH ELEV	O.D. I.D.	BLOWS 15m	NO.		DESCRIPTION OF MATERIAL			PLASTIC LIMIT	WATER CONTENT	LIQUID LIMIT		
				X				0	0	70	90	X
				0.05 m PEAT, thin organics, roots								
1.0	B		1	BEDROCK - weathered - altered schist and quartzite - grey to light brown - easy drilling throughout								
2.0	B		2									
3.0	B		3									
4.0	B		4									
5.0	B			6.0 m								
6.0												
7.0				END OF HOLE								



KLOHN LEONOFF
CONSULTING ENGINEERS

JOB No.	PA 2441
PROJECT	AIRPORT AND ACCESS ROAD
LOCATION	DAWSON CITY, Y.T.
HOLE No.	TH - 77
DATE	NOV. 25-29/87 PLATE

TEST HOLE LOG

SAMPLE DATA				SYMBOL	ELEV COLLAR		UNCONFINED COMPRESSION kPa					
WEIGHT HAMMER 63.5 kg					ELEV GROUND		100 200 300 400					
HEIGHT DROP 0.76 m					CO-ORD. LOCATION As per attached location		● FIELD VANE ▲ LAB VANE ■ UNCONF.					
DEPTH ELEV.	O.D. I.D.	BLOWS 15m	NO.		DESCRIPTION OF MATERIAL		PLASTIC LIMIT	WATER CONTENT	LIQUID LIMIT		X	
						X-----X	-----0-----X	-----X		X		
						10	30	50	70	90%	X	
1.0	B		1	0.05 m	PEAT, thin organics, roots							
2.0	B		2	3.0 m	BEDROCK - weathered - altered schist and quartzite - grey to light brown - hard drilling from 2.0 m to 3.0 m - color change to light brown at 2.2 m							
3.0												
4.0				REFUSAL AT 3.0 m								
5.0												
6.0												
7.0												



KLOHN LEONOFF

CONSULTING ENGINEERS

JOB No.	PA 2441
PROJECT	AIRPORT AND ACCESS ROAD
LOCATION	DAWSON CITY, Y.T.
HOLE No.	TH - 78
DATE	NOV. 25-29/87 PLATE

TEST HOLE LOG

SAMPLE DATA				SYMBOL	ELEV COLLAR	UNCONFINED COMPRESSION kPa						
WEIGHT HAMMER 63.5 Kg					ELEV GROUND	100 200 300 400						
HEIGHT DROP 0.76 m					CO-ORD. LOCATION As per attached location	● FIELD VANE		△ LAB VANE		■ UNCONF.		
DEPTH ELEV	O.D. I.D.	BLOWS 15m	NO.		DESCRIPTION OF MATERIAL	PLASTIC LIMIT	WATER CONTENT		LIQUID LIMIT			
					X	10	30	0	50	70	90%	X
1.0	B		1	SILT - trace to little fine sand - slightly plastic - light grey								
2.0												
	B		2	- trace clay - low plastic								
3.0												
				- still unfrozen at 3.0 m								
4.0	B		3	- very wet from 3.5 - 6.0 m								
5.0												
	B		4	- little to some clay - low to medium plastic - medium grey								
6.0												
				6.0 m								
7.0				END OF HOLE								



KLOHN LEONOFF
CONSULTING ENGINEERS

JOB No.	PA 2441
PROJECT	AIRPORT AND ACCESS ROAD
LOCATION	DAWSON CITY, Y.T.
HOLE No.	TH - 79
DATE	NOV. 25-29/87 PLATE

TEST HOLE LOG

SAMPLE DATA				SYMBOL	ELEV COLLAR	UNCONFINED COMPRESSION kPa					
WEIGHT HAMMER 63.5 Kg					ELEV GROUND	100	200	300	400		
HEIGHT DROP 0.76 m					CO-ORD. LOCATION	● FIELD VANE ▲ LAB VANE ■ UNCONF.					
DEPTH ELEV	O.D. I.D.	BLOWS 15m	NO.		DESCRIPTION OF MATERIAL	PLASTIC LIMIT	WATER CONTENT		LIQUID LIMIT		
					X	10	30	0	70	90	X
1.0	B		1	SILT - little to some clay - little sand to trace sand - little gravel - low to medium plastic - brown to dark brown - pockets of fine organics - frozen with visible ice crystals below 2.0 m							
2.0	B		2								
3.0				3.0 m							
4.0	B		3	GRAVEL - to 50 mm - well graded - rounded turning angular by 4.5 m - trace clay - trace to little silt - some sand, well graded - brown - hard, frozen							
5.0	B		4								
5.5				5.5 m							
6.0				REFUSAL AT 5.5 m							
7.0											



KLOHN LEONOFF
CONSULTING ENGINEERS

JOB No.	PA 2441
PROJECT	AIRPORT AND ACCESS ROAD
LOCATION	DAWSON CITY, Y.T.
HOLE No.	TH - 80
DATE	NOV. 25-29/87 PLATE

TEST HOLE LOG

SAMPLE DATA				SYMBOL	ELEV COLLAR		UNCONFINED COMPRESSION kPa													
WEIGHT HAMMER 63.5 Kg					ELEV GROUND		100 200 300 400 ● FIELD VANE ▲ LAB VANE ■ UNCONF.													
HEIGHT DROP 0.76 m					CO-ORD LOCATION As per attached location		PLASTIC LMNT		WATER CONTENT		LIQUID LMNT									
DEPTH ELEV.	O.D. I.D.	BLOWS 15m	NO.		DESCRIPTION OF MATERIAL						X	30	0	70	X					
												10		50		90%				
1.0	B		1	SILT - some to little clay - trace to little sand - some gravel, subangular - low to medium plastic - brown - very wet, oxidized, unfrozen - turns brownish grey @ 4.5 m																
2.0																				
3.0	B		2																	
4.0	B		3																	
5.0				6.0 m																
6.0	B		4																	
7.0				END OF HOLE																



KLOHN LEONOFF
CONSULTING ENGINEERS

JOB No.	PA 2441
PROJECT	AIRPORT AND ACCESS ROAD
LOCATION	DAWSON CITY, Y.T.
HOLE No.	TH - 81
DATE	NOV. 25-29/87 PLATE

TEST HOLE LOG

SAMPLE DATA				SYMBOL	ELEV COLLAR	UNCONFINED COMPRESSION kPa				
WEIGHT HAMMER 63.5 Kg					ELEV GROUND	100 200 300 400				
HEIGHT DROP 0.76 m					CO-ORD LOCATION	● FIELD VANE Δ LAB VANE ■ UNCONF				
DEPTH ELEV	O.D. I.D.	BLOWS 15m	NO.		DESCRIPTION OF MATERIAL	PLASTIC LMIT	WATER CONTENT		LIQUID LIMIT	
					X	10	30	0	70	X
1.0	B		1	CLAY - some silt - trace sand - medium plastic - brown						
2.0										
	B		2							
3.0				3.0 m						
4.0	B		3	SILT - little clay - trace to little sand - low plastic - brown						
					4.5 m					
5.0										
	B		4	CLAY - some silt - little sand - some gravel to 75 mm - medium plastic - brown						
6.0					6.0 m					
7.0				END OF HOLE						



KLOHN LEONOFF
CONSULTING ENGINEERS

JOB No.	PA 2441
PROJECT	AIRPORT AND ACCESS ROAD
LOCATION	DAWSON CITY, Y.T.
HOLE No.	TH - 82
DATE	NOV. 25-29/87 PLATE

TEST HOLE LOG

SAMPLE DATA				SYMBOL	ELEV COLLAR	UNCONFINED COMPRESSION kPa			
WEIGHT HAMMER 63.5 Kg					ELEV GROUND	100	200	300	400
HEIGHT DROP 0.76 m					CO-ORD. LOCATION As per attached location	● FIELD VANE	△ LAB VANE	■ UNCONF.	
DEPTH ELEV	O.D. I.D.	BLOWS 1.5m	NO.		DESCRIPTION OF MATERIAL	PLASTIC LMIT	WATER CONTENT		LIQUID LIMIT
					X	0	X	X	
					10	30	50	70	90%
1.0	B		1	SILT - little clay and sand - little to some gravel to 25 mm - low plastic - brown 1.5 m	○				
2.0	B		2	GRAVEL - to 22 mm - rounded to subrounded - some to little sand - some to trace clay - silty to little silt - low to medium plastic - brown	○				
3.0	B		3	- gravel is frozen between 2.5 and 3.2 m 3.2 m	○				
4.0				REFUSAL AT 3.2 m					
5.0									
6.0									
7.0									



KLOHN LEONOFF
CONSULTING ENGINEERS

JOB No.	PA 2441
PROJECT	AIRPORT AND ACCESS ROAD
LOCATION	DAWSON CITY, Y.T.
HOLE No.	TH - 83
DATE	NOV. 25-29/87 PLATE

TEST HOLE LOG

SAMPLE DATA				SYMBOL	ELEV COLLAR	UNCONFINED COMPRESSION kPa				
WEIGHT HAMMER 63.5 Kg					ELEV GROUND	100 200 300 400				
HEIGHT DROP 0.76 m					CO-ORD. LOCATION	● FIELD VANE ▲ LAB VANE ■ UNCONF.				
DEPTH ELEV	O.D. I.D.	BLOWS 15m	NO.		DESCRIPTION OF MATERIAL	PLASTIC LIMIT	WATER CONTENT		LIQUID LIMIT	
					X	0	X			
					10	30	60	70	90%	
				0.4 m	ORGANICS, with wood chips					
1.0	B		1	SILT - slightly organic near surface - trace sand - trace clay - slightly plastic - dark brown to brown - frozen below 2.0 m						
2.0	B		2							
3.0				2.8 m						
					REFUSAL AT 2.8 m					
4.0										
5.0										
6.0										
7.0										



KLOHN LEONOFF
CONSULTING ENGINEERS

JOB No.	PA 2441
PROJECT	AIRPORT AND ACCESS ROAD
LOCATION	DAWSON CITY, Y.T.
HOLE No.	TH - 84
DATE	NOV. 25-29/87 PLATE

TEST HOLE LOG

SAMPLE DATA				SYMBOL	ELEV COLLAR	UNCONFINED COMPRESSION kPa							
WEIGHT HAMMER 63.5 Kg					ELEV GROUND	100 200 300 400 ● FIELD VANE ▲ LAB VANE ■ UNCONF.							
HEIGHT DROP 0.76 m					CO-ORD. LOCATION	As per attached location							
DEPTH ELEV	O.D. I.D.	BLOWS 1.5m	NO.		DESCRIPTION OF MATERIAL					PLASTIC LIMIT	WATER CONTENT	LIQUID LIMIT	
									X-----X	0	X-----X		
									10	30	50	70	90%
	B		1	0.5 m	SANDY GRAVEL								
1.0	B		2		BEDROCK - weathered - quartz and mica schist - iron and chlorite alterates - light brown to brown								
2.0													
3.0	B		3										
4.0	B		4										
5.0													
6.0	B		5		- hard drilling from 5.5 to 6.0 m								
				6.0 m									
7.0					END OF HOLE								



KLOHN LEONOFF
CONSULTING ENGINEERS

JOB No.	PA 2441
PROJECT	AIRPORT AND ACCESS ROAD
LOCATION	DAWSON CITY, Y.T.
HOLE No.	TH - 85
DATE	NOV. 25-29/87 PLATE

TEST HOLE LOG

SAMPLE DATA				SYMBOL	ELEV COLLAR		UNCONFINED COMPRESSION kPa							
WEIGHT HAMMER 63.5 Kg					ELEV GROUND		100	200	300	400				
HEIGHT DROP 0.76 m					CO-ORD. LOCATION As per attached location		● FIELD VANE		△ LAB VANE		■ UNCONF.			
DEPTH ELEV	O.D. I.D.	BLOWS 1.5m	NO.		DESCRIPTION OF MATERIAL			PLASTIC LIMIT	WATER CONTENT		LIQUID LIMIT			
							X-----X	0	-----X	10	30	50	70	90%
0.3					0.3 m	GRAVEL								
1.0	B		1			BEDROCK								
						- weathered								
						- quartz and mica schist								
						- iron and chlorite alterates								
						- light brown to brown								
2.0						- hard drilling from 2.0 - 4.0 m								
	B		2			- very wet from 3.0 to 4.0 m								
3.0														
4.0	B		3		4.0 m									
5.0						REFUSAL AT 4.0 m								
6.0														
7.0														



KLOHN LEONOFF
CONSULTING ENGINEERS

JOB No.	PA 2441
PROJECT	AIRPORT AND ACCESS ROAD
LOCATION	DAWSON CITY, Y.T.
HOLE No.	TH - 86
DATE	NOV. 25-29/87 PLATE

TEST HOLE LOG

SAMPLE DATA				SYMBOL	ELEV COLLAR	UNCONFINED COMPRESSION kPa				
WEIGHT HAMMER 63.5 Kg					ELEV GROUND	100	200	300	400	
HEIGHT DROP 0.76 m					CO-ORD. LOCATION As per attached location	● FIELD VANE ▲ LAB VANE ■ UNCONF.				
DEPTH ELEV	O.D I.D	BLOWS	NO.		DESCRIPTION OF MATERIAL	PLASTIC LIMIT	WATER CONTENT		LIQUID LIMIT	
		15m			X	0	X			
					10	30	50	70	90%	
					0.05m PEAT, thin organics, roots					
1.0	B		1		BEDROCK - weathered - mica schist and quartzite - thin quartz veins - light brown					
2.0										
3.0	B		2							
					- hard drilling from 3.0 - 3.5 m					
	B		3		3.5 m					
4.0					REFUSAL AT 3.5 m					
5.0										
6.0										
7.0										



KLOHN LEONOFF
CONSULTING ENGINEERS

JOB No.	PA 2441
PROJECT	AIRPORT AND ACCESS ROAD
LOCATION	DAWSON CITY, Y.T.
HOLE No.	TH - 87
DATE	NOV. 25-29/87 PLATE

TEST HOLE LOG

SAMPLE DATA				SYMBOL	ELEV COLLAR		UNCONFINED COMPRESSION kPa												
WEIGHT HAMMER 63.5 Kg					ELEV GROUND		100 200 300 400 ● FIELD VANE ▲ LAB VANE ■ UNCONF.												
HEIGHT DROP 0.76 m					CO-ORD. LOCATION As per attached location		PLASTIC LIMIT		WATER CONTENT		LIQUID LIMIT								
DEPTH ELEV	O.D T.O.	BLOWS .15m	NO.		DESCRIPTION OF MATERIAL						X	0	X						
										10	30	50	70	90%					
				0.05 m	PEAT, thin organics, roots														
1.0	B		1	4.3 m	BEDROCK - weathered - quartz and mica schist - iron and chlorite alterates - light brown to brown - hard drilling from 2.0 to 2.5 m														
2.0																			
3.0	B		2																
4.0	B		3		- hard drilling from 3.5 to 4.3 m														
5.0					REFUSAL AT 4.3 m														
6.0																			
7.0																			



KLOHN LEONOFF
CONSULTING ENGINEERS

JOB No.	PA 2441
PROJECT	AIRPORT AND ACCESS ROAD
LOCATION	DAWSON CITY, Y.T.
HOLE No.	TH - 88
DATE	NOV. 25-29/87 PLATE

TEST HOLE LOG

SAMPLE DATA				SYMBOL	ELEV COLLAR		UNCONFINED COMPRESSION kPa								
WEIGHT HAMMER 63.5 Kg					ELEV GROUND		100 200 300 400 ● FIELD VANE Δ LAB VANE ■ UNCONF.								
HEIGHT DROP 0.76 m					CO-ORD. LOCATION As per attached location		PLASTIC LIMIT		WATER CONTENT		LIQUID LIMIT				
DEPTH ELEV.	O.D. I.D.	BLOWS 15m	NO.		DESCRIPTION OF MATERIAL							X	0	X	
							10	30	50	70	90%				
1.0	B		1	3.3 m	BEDROCK - disturbed (by bulldozer) - weathered - quartz, mica schist - light brown										
2.0	B		2												
3.0															
4.0	B		3	6.0 m	BEDROCK - weathered - quartz, mica schist - light brown										
5.0	B		4												
6.0					END OF HOLE										
7.0															



KLOHN LEONOFF
CONSULTING ENGINEERS

JOB No.	PA 2441
PROJECT	AIRPORT AND ACCESS ROAD
LOCATION	DAWSON CITY, Y.T.
HOLE No.	TH - 89
DATE	NOV. 25-29/87 PLATE

APPENDIX II
EBA Test Hole Logs TH6-1 to TH6-8 inclusive

PROPOSED DAWSON AIRPORT SITES

SITE 6 KLONDIKE HILLS
DAWSON CITY, YUKON

BOREHOLE NO. SPEC-1 10201-4653

RELATIVE ELEVATION 0 (m)
DRILLING RIG: CME 75 (ROD WELL MOUNTED)

SAMPLE TYPE GRAB CORREL CORE

DEPTH (m)	SOIL DESCRIPTION	SAMPLE DEPTH (m)	COMPRESSION STRENGTH		
			WET UNIT WEIGHT (kN/m ³)	WATER CONTENT (%)	UNSATURATED UNIT WEIGHT (kN/m ³)
0	PEAT (Pt) - moss and organic root mat		20	10	80
0.5	GRAVEL (Gm) - some silt to silty, trace sand (Colluvium) coarse-grained, angular, rough grey; up-graded; dry; grey				
1	BEDROCK - chlorite mica schist with quartzite; weathered; drilling action causes rock to fragment -harder drilling				
2	END OF BOREHOLE 2.0 m AUGER REFUSAL				
2.5					
3					
3.5					
4					
4.5					
5					
5.5					
6					

CLIENT: GOVERNMENT OF YUKON

16 18 20 22 20 40 60 80
WET UNIT WEIGHT (kN/m³)

EBA ENGINEERING CONSULTANTS LTD.
WHITEHORSE YUKON

COMPLETION DEPTH 2 m
LOGGED BY: HAV

COMPLETE 12:00 87-03-10
DWG No. 4653-10

PROPOSED DAWSON AIRPORT SITES

SITE 5 KLONDIKE HILLS
DAWSON CITY, YUKON

BOREHOLE No. S106-2 10201-4653

RELATIVE ELEVATION 3 (m)

DRILLING RIG: GMD 75 (NODWELL MOUNTED)

SAMPLE TYPE GRAB CRREL CORE

DEPTH (m)	SOIL DESCRIPTION	SAMPLE DEPTH (m)	COMPRESSIVE STRENGTH		
			PLASTIC LIMIT (%)	WATER CONTENT (w) (%)	LIQUID LIMIT (%)
0	PEAT (Pt) - moss and organic root mat				
0.5	GRAVEL (GM) - some silt, trace sand (Colluvium) coarse-grained, angular, rough gravel gap - graded; dry; grey				
1.9	BEDROCK - chlorite mica schist with quartz veins; weathered - auger refusal, move rig 2.0 m and attempt to drill				
2.0	END OF BOREHOLE 1.9 m VERY SLOW PROGRESS DUE TO AUGERS GRINDING ON BEDROCK				
2.5					
3					
3.5					
4					
4.5					
5					
5.5					
6					

CLIENT: GOVERNMENT OF YUKON

EBA ENGINEERING CONSULTANTS LTD.
WHITEHORSE YUKON

COMPLETION DEPTH 1.9 m
LOGGED BY: MAV

COMPLETE 11:25 87-03-10
DWG No. 4653-11

16 18 20 22 20 40 60 80
WET UNIT WEIGHT kN/m³

PROPOSED DAWSON AIRPORT SITES

BOREHOLE No. S1E6-3 | 0201-4653

SITE 6 KLONDIKE HILLS
DAWSON CITY, YUKON

RELATIVE ELEVATION 0 (m)
DRILLING RIG: CME 75 (NOB WELL MOUNTED)

SAMPLE TYPE

CRAB CRREL CORE

DEPTH (m)

SOIL DESCRIPTION

0 PEAT(Pt)-moss and organic root mat
BEDROCK-chlorite mica schist with quartzite; buff weathered; easy drilling

0.5 -harder drilling

1

1.5 -harder drilling noted at 1.4 m

2 -easier drilling noted between 1.8 m and 2.4 m

2.5 -harder drilling noted at 2.4 m
-schist

3 END OF BOREHOLE 3.0 m

COMPRESSION STRENGTH

DEPTH (m)	WATER CONTENT (%)				COMPRESSION STRENGTH
	20	40	60	80	
0					
0.2					
0.4					
0.6					
0.8					
1.0					
1.2					
1.4					
1.6					
1.8					
2.0					
2.2					
2.4					
2.6					
2.8					
3.0					
3.2					
3.4					
3.6					
3.8					
4.0					
4.2					
4.4					
4.6					
4.8					
5.0					
5.2					
5.4					
5.6					
5.8					
6.0					

CLIENT: GOVERNMENT OF YUKON

16 18 20 22 20 40 60 80
WET UNIT WEIGHT kN/m³

EBA ENGINEERING CONSULTANTS LTD.
WHITEHORSE YUKON

COMPLETION DEPTH 3 m COMPLETE 10:30 87-03-10
LOGGED BY MAV DMC No. 4653-12

PROJECT: DAWSON AIRPORT SITES

BOREHOLE NO. SHEG-1 0201-4653

LOT 6 KLONDIKE HILLS

RELATIVE ELEVATION 0 (m)

DAWSON CITY, YUKON

DRILLING RIG: CME 75 (NODWELL MOUNTED)

SAMPLE TYPE GRAB CORREL CORE

DEPTH (E) (m)	SOIL DESCRIPTION	DEPTH (F) (m)	COMPRESSIVE STRENGTH			
			PLASTIC LIMIT	WATER CONTENT (%)		LIQUID LIMIT
			20	40	60	80
0	PFAT (P) - moss and organic root mat	0				
0	BEDROCK - biotite schist; highly buff weathered; soft and friable - smooth, easy drilling	0				
0.5		0.5				
1		1				
1.5		1.5				
2		2				
2.5		2.5				
3		3				
3.5	- rock becoming more competent, drilling becomes harder	3.5				
4	END OF BOREHOLE 3.7 m AUGER REFUSAL	4				
4.5		4.5				
5		5				
5.5		5.5				
6		6				

CLIENT: GOVERNMENT OF YUKON

16 18 20 22 20 40 60 80
WET UNIT WEIGHT KN/m³

EBA ENGINEERING CONSULTANTS LTD.
WHITEHORSE YUKON

COMPLETION DEPTH 3.7 m

COMPLETE 12:45 87-03-10

LOGGED BY MAV

DWG No. 4653-1J

PROPOSED DAWSON AIRPORT SITES

BOREHOLE NO. SFL6-9 0201-4653

SITE 6 KLONDIKE HILLS
DAWSON CITY, YUKON

RELATIVE ELEVATION 2 (m)

DRILLING RIG: CME 75 (NODWELL MOUNTED)

SAMPLE TYPE GRAB CRREL CORE

DEPTH (m)	SOIL DESCRIPTION	SAMPLE DEPTH (m)	COMPRESSION STRENGTH			
			PLASTIC LIMIT (%)	WATER CONTENT (%)	LIQUID LIMIT (%)	UNSATURATED
0	PEAT(Pt) - moss and organic root mat					
	SILT(ML) - some sand, trace to some gravel, trace clay					
0.5	BEDROCK - chlorite biotite schist; puff weathered; soft and friable - easy drilling between 0.3 m to 4.3 m					
1						
1.5						
2						
2.5						
3						
3.5						
4						
4.5	-drilling becomes harder					
5						
5.5	END OF BOREHOLE 5.3 m AUGER REFUSAL					
6						

CLIENT: GOVERNMENT OF YUKON

EBA ENGINEERING CONSULTANTS LTD.
WHITEHORSE YUKON

COMPLETION DEPTH 5.3 m

LOGGED BY MAV

16 18 20 22
NET UNIT WEIGHT kN/m³

20 40 60 80

COMPLETE 13:30 87-03-10

DWG No. 4653-14

PROPOSED DAWSON AIRPORT SITES

BOREHOLE NO. SITEC-6 0201-4653

SITE 8 KLONDIKE HILLS

RELATIVE ELEVATION 0 (m)

DAWSON CITY, YUKON

DRILLING RIG: CASE 75 (NODWELL MOUNTED)

SAMPLE TYPE GRAB CRREL CORE

DEPTH (M)	SOIL DESCRIPTION	SAMPLE DEPTH (FT)	PLASTIC WATER LIQUID				COMPRESSION STRENGTH
			LIMIT (%)	CONTENT (%)	LIMIT (%)	LIMIT (%)	
0	PEAT (PI) - moss and organic root mat						
0.5	BEDROCK - fractured, weathered rock at surface - chlorite biotite schist with quartzite - competent rock, hard drilling						
0.6	END OF BOREHOLE 0.6 m AUGER REFUSAL						
1.0	NOTE: Two attempts were made to drill past 0.6 m.						
1.5							
2.0							
2.5							
3.0							
3.5							
4.0							
4.5							
5.0							
5.5							
6.0							

CLIENT: GOVERNMENT OF YUKON

16 18 20 22 20 40 60 80
WET UNIT WEIGHT kN/m³

EBA ENGINEERING CONSULTANTS LTD.
WHITEHORSE YUKON

COMPLETION DEPTH 0.6 m COMPLETE 14:25 87-03-10
LOGGED BY MAV DWG No. 4653-15

PROPOSED DAWSON AIRPORT SITES

BOREHOLE No. SITE 6-7 10201-4653

SITE 6 KLONDIKE HILLS
DAWSON CITY, YUKON

RELATIVE ELEVATION 0 (m)
DRILLING RIG: GME 75 (NODWELL MOUNTED)

SAMPLE TYPE

GRAB CRREL CORE

DEPTH (m)	SOIL DESCRIPTION	SAMPLE DEPTH (m)	PLASTIC WATER LIQUID				COMPRESSIVE STRENGTH
			LIMIT	CONTENT (%)	LIMIT		
			20	40	60	80	
0	GRAVEL (GM) - silty, some sand to sandy (Colluvium) angular to subangular, rough gravel; with quartz gravel particles disseminated throughout; damp; olive brown	0					
0.5		2					
1	BEDROCK - highly weathered quartzite; soft and friable; with iron oxide staining	4					
1.5		6					
2		8					
2.5	- easy drilling	10					
3		12					
3.5		14					
4		16					
4.5		18					
5		20					
5.5	END OF BOREHOLE 5.3 m FISHTAIL BIT LOST DOWNHOLE	22					
6							

CLIENT: GOVERNMENT OF YUKON

16 18 20 22
WET UNIT WEIGHT kN/m³

20 40 60 80

EBA ENGINEERING CONSULTANTS LTD.
WHITEHORSE YUKON

COMPLETION DEPTH 5.2 m
LOGGED BY MAV

COMPLETE 15:10 87-03-10
DWG No. 4653-16

PROPOSED DAWSON AIRPORT SITES

BOREHOLE NO. SITE 6-8 | 0201-4653

SITE 6 KLONDIKE HILLS
DAWSON CITY, YUKON

RELATIVE ELEVATION 0 (m)
DRILLING RIG: GME 75 (NUDWELL MOUNTED)

SAMPLE TYPE GRAB CRREL CORE

DEPTH (m)	SOIL DESCRIPTION	SAMPLE DEPTH (m)	COMPRESSION STRENGTH			
			PLASTIC LIMIT	WATER CONTENT (%)		LIQUID LIMIT
			20	40	60	80
0	PEAT (Pt) - moss and organic root mat					
	GRAVEL (GM) - silty, some sand to sandy (Colluvium)					
0.5	BEDROCK - highly weathered quartzite; soft and friable; iron oxide staining throughout					
1.0	- easy drilling					
1.5						
2.0						
2.5						
3.0						
3.5						
4.0						
4.5	END OF BOREHOLE 4.5 m					
5.0						
5.5						
6.0						

CLIENT: GOVERNMENT OF YUKON

16 18 20 22
WET UNIT WEIGHT kN/m³

20 40 60 80

EBA ENGINEERING CONSULTANTS LTD.
WHITEHORSE YUKON

COMPLETION DEPTH 5.2 m

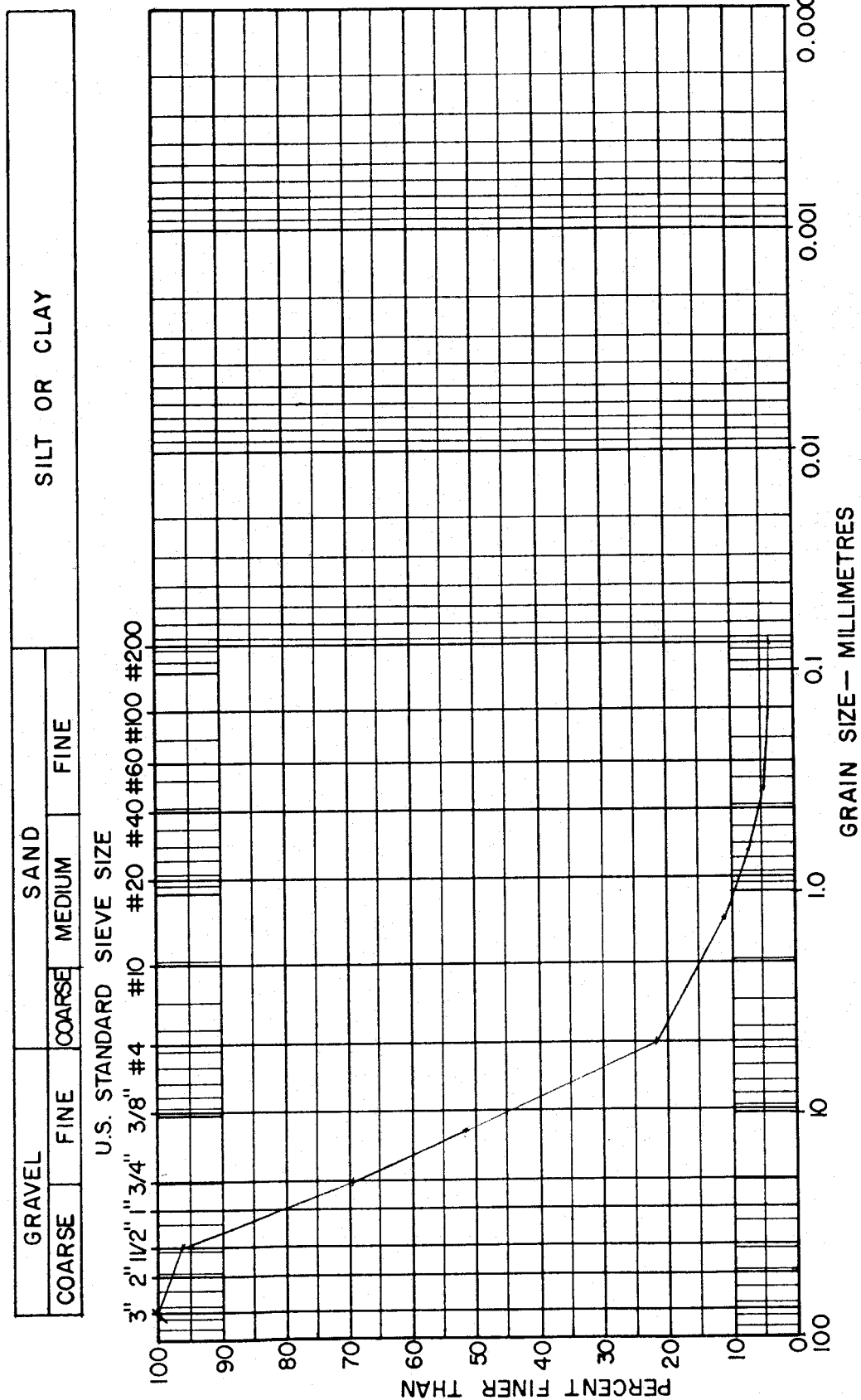
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LOGGED BY NAV

DWG No. 4653-17

APPENDIX III
Laboratory Test Data

GRAIN SIZE CURVE



REMARKS:



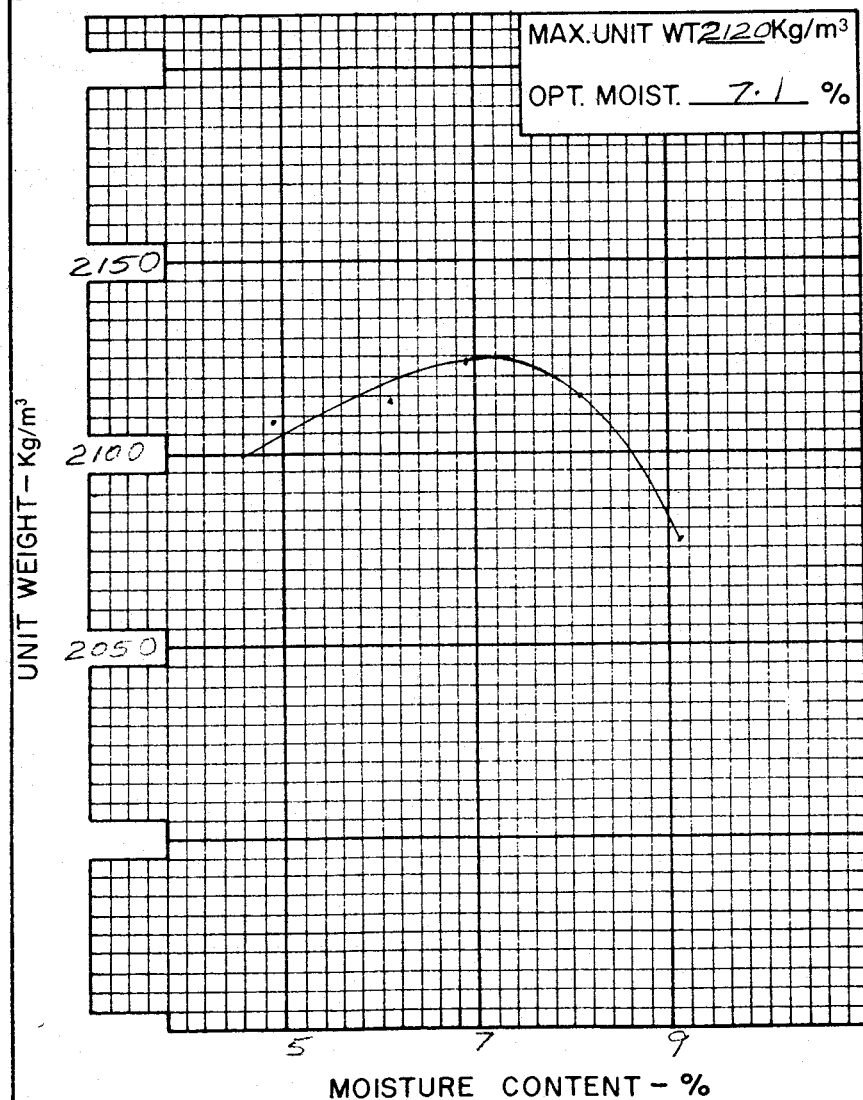
KLOHN LEONOFF
CONSULTING ENGINEERS

JOB No.	<i>PA 2441-71-01</i>		
PROJECT	<i>AIRSTRIPE & ACCESS RD.</i>		
LOCATION	<i>DAWSON V. T.</i>		
HOLE No.	<i>73</i>	DEPTH	<i>1.5-3.0</i>
DATE	<i>FEB 17/88</i>		

COMPACTION TEST

TRIAL NUMBER							
UNIT WEIGHT DETERMINATION	MOLD No.						
	WET WT. SAMPLE & MOLD						
	WEIGHT OF MOLD						
	WET WT. OF SAMPLE						
	VOLUME OF MOLD						
	WET UNIT WT. Kg/m ³	2211	2243	2270	2286	2265	
DRY UNIT WT. Kg/m ³	2108	2114	2124	2115	2076		

MOISTURE CONTENT DETERMINATION	CONTAINER No.						
	WET WT. SAMPLE & TARE						
	DRY WT. SAMPLE & TARE						
	WT. OF WATER						
	TARE CONTAINER						
	DRY WT. OF SOIL						
MOISTURE CONTENT	4.9	6.1	6.9	8.1	9.1		



METHOD OF COMPACTION
A.S.T.M. D-698
METHOD "D"

DIAM. OF MOLD 15.24 CM.

HEIGHT OF MOLD 11.64 CM.

VOLUME OF MOLD 2.124 CM³

NO. OF LAYERS 3

BLOWS PER LAYER 56

HT. OF FREE FALL 30.48 CM

WT. OF TAMPER 2.49 kg

SHAPE OF TAMPING FACE FLAT.

DESCRIPTION OF SAMPLE
TYPICAL WEATHERED
BEOROCK

REMARKS
12.0 % OVERSIZE



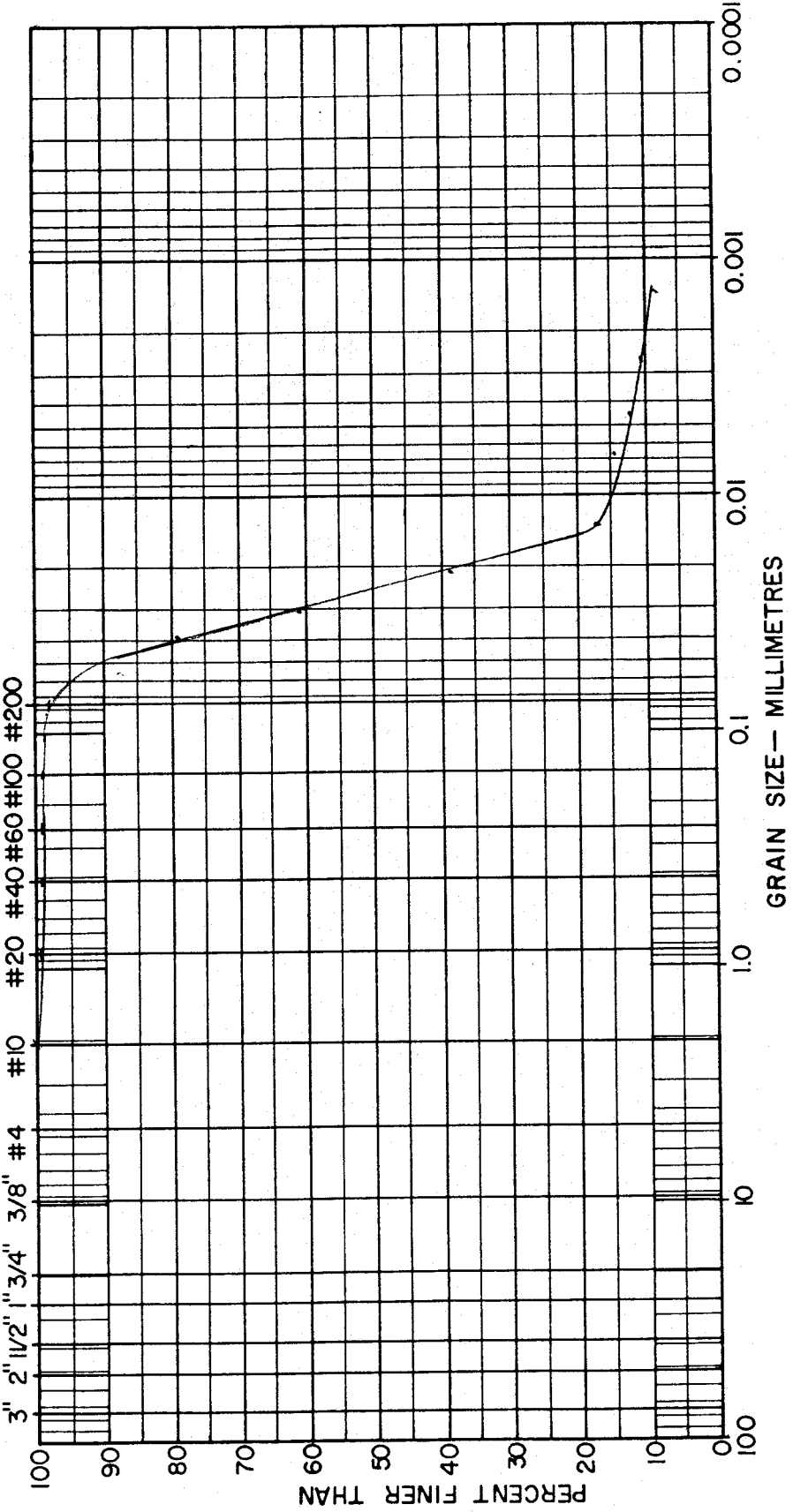
KLOHN LEONOFF
 CONSULTING ENGINEERS

JOB No. PA 2441 TECH.
 PROJECT AIRSTRIPE ACCESS RD.
 LOCATION DANSON Y. T.
 HOLE No. 37 DEPTH 1.5-3.0
 DATE FEB 17/88 PLATE No.

GRAIN SIZE CURVE

GRAVEL	SAND		SILT OR CLAY	
COARSE	FINE	COARSE	MEDIUM	FINE

U.S. STANDARD SIEVE SIZE



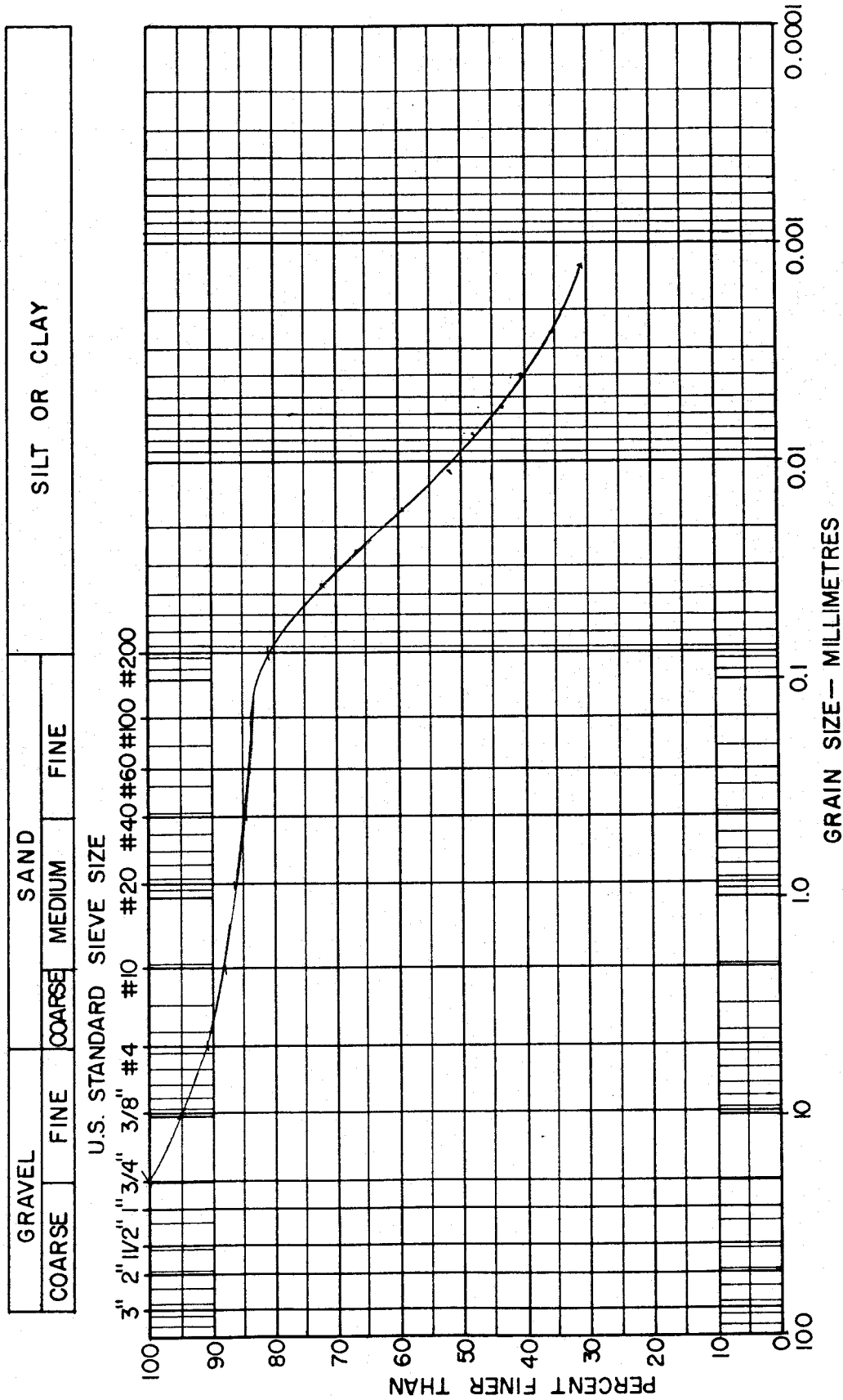
REMARKS:



KLOHN LEONOFF
CONSULTING ENGINEERS

JOB No. PA2441-01-01
 PROJECT AIRSTRIP & ACCESS RD
 LOCATION DAWSON Y.T.
 HOLE No. 79 DEPTH 3.0-4.5M.
 DATE FEB 17/88

GRAIN SIZE CURVE



REMARKS:



KLOHN LEONOFF
CONSULTING ENGINEERS

JOB No.	PA 2441-01-01
PROJECT	AIRSTRIPE ACCESS RD.
LOCATION	DAWSON V.T.
HOLE No.	82
DEPTH	1.5-3.0M.
DATE	FEB 17/88

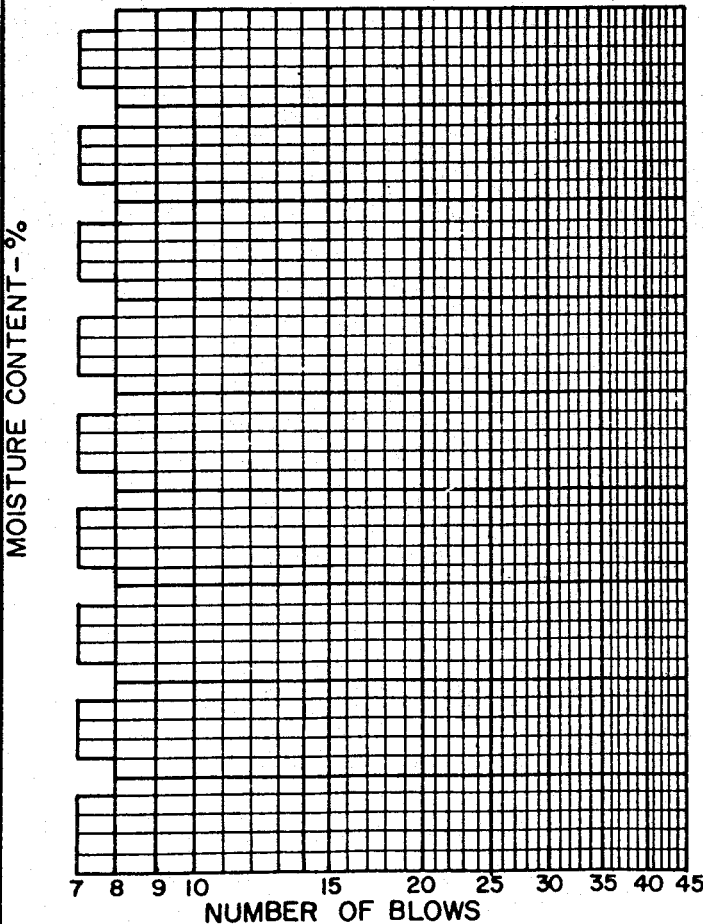
ATTERBERG LIMITS

LIQUID LIMIT

TRIAL No.					
No. OF BLOWS	25	26			
CONTAINER No.	AL-12	AL-43			
WET WT. SOIL & CONTAINER	50.40	50.35			
DRY WT. SOIL & CONTAINER	42.53	42.62			
WEIGHT OF MOISTURE	7.87	7.73			
WEIGHT OF CONTAINER	16.95	17.28			
WEIGHT OF DRY SOIL	25.58	25.34			
MOISTURE CONTENT	30.0	30.5			

PLASTIC LIMIT

TRIAL No.				
CONTAINER No.	AL-10	AL-39		
WET WT. SOIL & CONTAINER	21.82	22.16		
DRY WT. OF SOIL & CONTAINER	21.16	21.52		
WEIGHT OF MOISTURE	0.66	0.64		
WEIGHT OF CONTAINER	17.43	17.57		
WEIGHT OF DRY SOIL	3.73	3.95		
MOISTURE CONTENT	17.7	16.2		



SUMMARY

LIQUID LIMIT 30.8

PLASTIC LIMIT 16.9

PLASTIC INDEX 13.9

DESCRIPTION OF SAMPLE

CI.

REMARKS



KLOHN LEONOFF
CONSULTING ENGINEERS

JOB No. PA2441-01-03 TECH. P.J.2

PROJECT Dawson Airstrip

LOCATION

HOLE No. TH #82 DEPTH 1.5-3.0

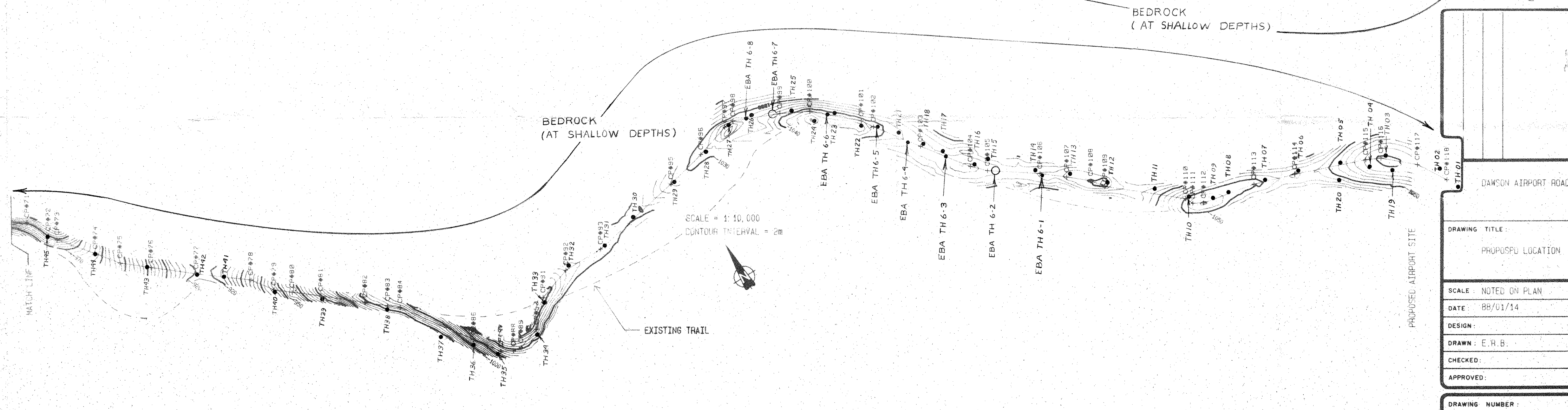
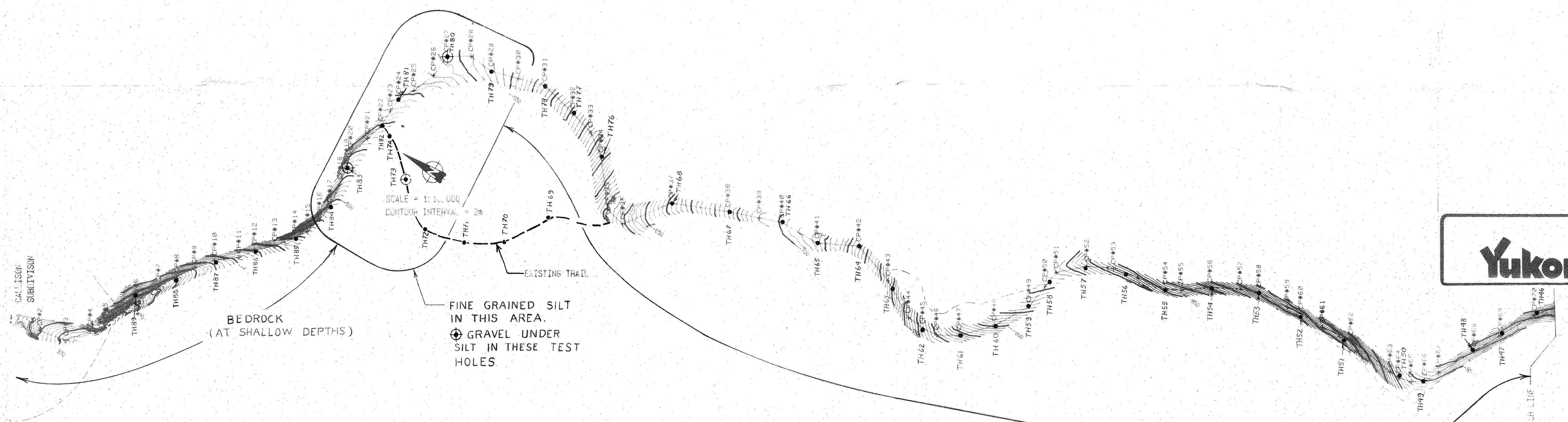
DATE FEB 17/88 PLATE No. SP712

D

C

B

A



Yukon

DAWSON AIRPORT ROAD

DRAWING TITLE:
PROPOSED LOCATION

SCALE: NOTED ON PLAN

DATE: 88/01/14

DESIGN:

DRAWN: E.R.B.

CHECKED:

APPROVED:

DRAWING NUMBER:	SHEET:
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AS A MUTUAL PROTECTION TO OUR CLIENT, THE PUBLIC AND OURSELVES, ALL REPORTS AND DRAWINGS ARE SUBMITTED FOR THE CONFIDENTIAL INFORMATION OF OUR CLIENT FOR A SPECIFIC PROJECT AND AUTHORIZATION FOR USE AND/OR PUBLICATION OF DATA, STATEMENTS, CONCLUSIONS OR ABSTRACTS FROM OR REGARDING OUR REPORTS AND DRAWINGS IS RESERVED PENDING OUR WRITTEN APPROVAL.

TO BE READ WITH KLOHN LEONOFF REPORT DATED FEB. 17/88			
SCALE: 1:10 000	REV.	DATE	REVISION DETAILS
	DESIGN	DRAWN	DATE SCALES
PROJECT: DAWSON CITY AIRPORT - ACCESS ROAD TITLE: TEST HOLE LOCATION PLAN			
CLIENT: YUKON COMMUNITY AND TRANSPORTATION SERVICES	DATE OF ISSUE FEB. 17/88	PROJECT No. PA2441	DWG. No. D-2441-1