





Public Works Canada

Western Region

Travaux Publics Canada

Region de l'Ouest



REPORT

GEOTECHNICAL INVESTIGATION

Mile 970 to Mile 1059

Mackenzie Highway

Combined Data - 1976 to 1980

Volume II - Mile 995 to Mile 1020

## Appendix A



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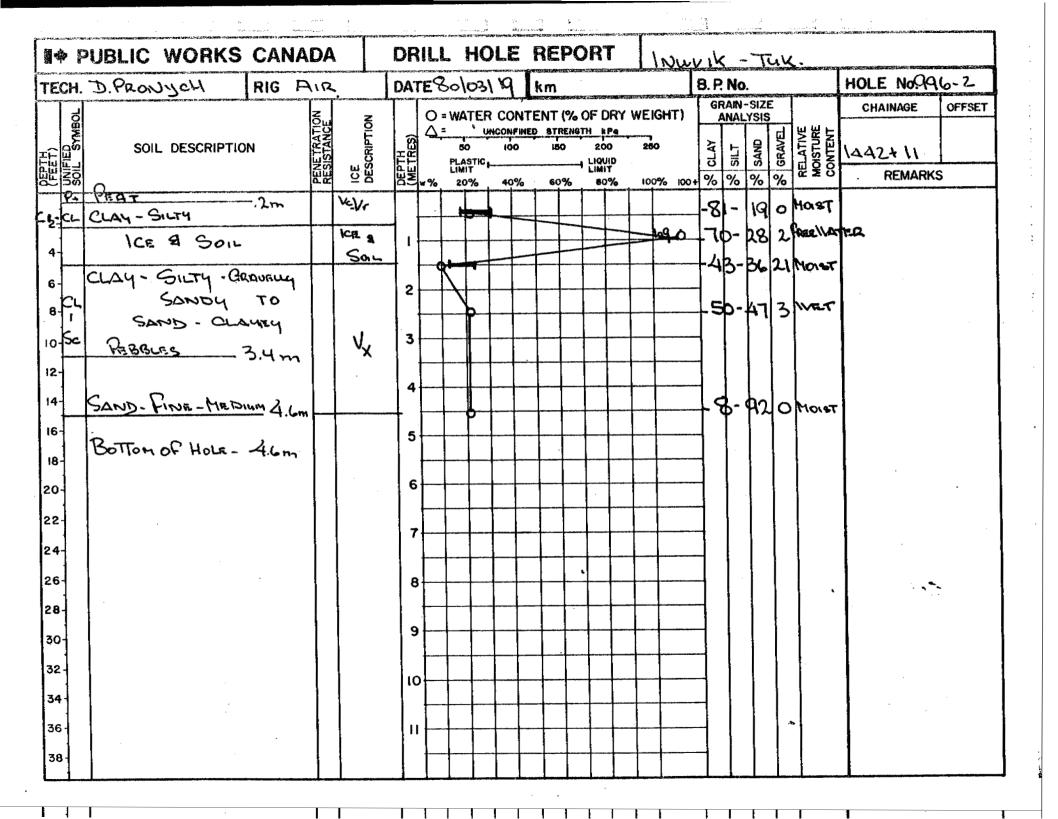
## Appendix B

## Appendix C

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24 F	UBLIC WORKS	CANA	DA	334650	DR	iL.	L H	IOI	E.	REP	OR	r	12	ور د ما د	J.W	, , , , , , , , , , , , , , , , , , ,	77	بر.	a superiorerios, mes	
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PEPTH (FEET) UNIFIED SOIL SYMBOL		N	PENETRATION RESISTANCE	ICE DESCRIPTION	DEPTH (METRES)	Ο Δ.	-	UNC		ENT (%)  STREN  150  60%		Pa O IID T	VEIGHT) 250		CLAY	SAND	GRAVEL	RELATIVE MOISTURE CONTENT	CHAINAGE REMARK	OFFSET
C1 2 4 6 6 10 C1 12 -	PEAT CLAY SILTY SANISY  ICE & SOIL  CLAY - SILTY  SANDY  PEBBES  MED. PLASTIC  CHRAVILLY  BOTTOM OF HOLE			102.90L	2										91.	00 10 10 10	10847	MOIST RABELLA SAT. WELT WELT WELT		
36 38						-														<u> </u>

7	F	UBLIC WORKS	CANA	D۵	·	DF	RILI	L H	OLE	: F		RT	INC		<u> </u>	 - T	<u>~</u>		ot promerhand, can	rhodnik "Janes
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DEPTH (FEET)	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	N	PENETRATION RESISTANCE	ICE DESCRIPTION	DEPTH (METRES)	0.		UNCONF	PHED	INT (% ( STRENGT 150		250	)   ×	SILT	SAND CAND	GRAVEL	RELATIVE MOISTURE CONTENT	CHAINAGE  QQQ - 3  REMARK	OFFSET
6-	CL	PRAT  I CE & ORGANICS  CLAY-SILTY  LOW PLASTIC  MED. PLASTIC			ICH &	2				d	0			0				Pareth Perett Perett	0	
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2- 4- 6- 8- 10- 12- 14- 16- 18- 20- 22- 24- 26- 28- 30- 32-	PROF. SILTY PROBLES MED. ROSTIC	.s .q 2.1	18	ICE ICE Som	2		0	1-1		80%		100%	-	0 /0	70	70	Most Parke W Park W Cart	D D	
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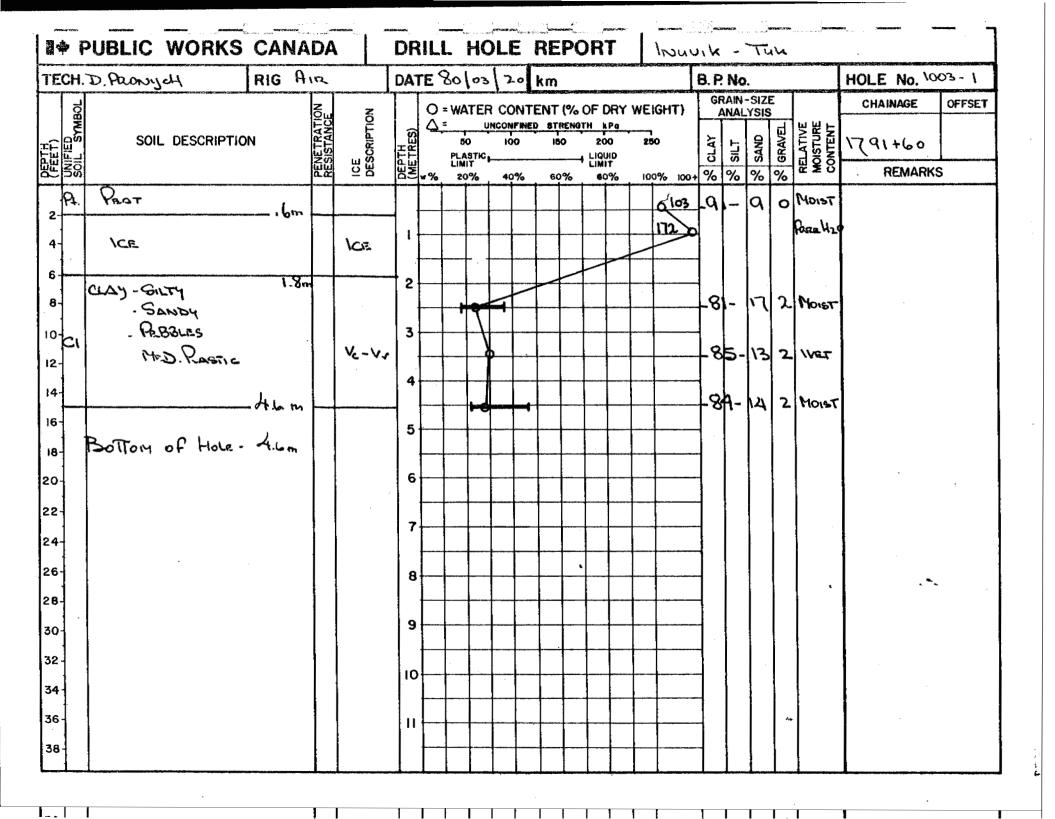
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	10	72		<u> </u>	w%	20%	40	<u>%</u> •	60% 	60%	<u></u>	100% 1001	%	%	%   %	<u> </u>	REMARK	<u> </u>
2 2	or CLOY-SILTY ORGAN.	24	٧5	-	-		++				$\downarrow$	7	1			WE.T		
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<u>~</u>	Šŏ ₹₹	Pass			2.2	즈 🖁	HE	w %	20		40%	6	0%	80		100	% 100+		%	%	%	# ₹ 8	REMAR	KS
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12- 1 CE	" ICE	4															
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18 Bottom of Hole - 4.6m		5															
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DEPTH (FEET) UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	1	PENETRATION RESISTANCE	ICE DESCRIPTION	DEPTH (METRES)	Δ.	50		100		STREE ISO		00	250	1	CLAY	SILT		GRAVEL	RELATIVE MOISTURE CONTENT	B00-88	
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듔	UNIFIED SOIL SYMBOL	SOIL DESCRIPTIO	N E	RESISTANCE ICE DESCRIPTION	DEPTH (METRES)	<u> </u>		IED STREM	200	250	CLAY	SILT	SAND	% GRAVEL	RELATIVE MOISTURE CONTENT	1838+50	
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PEPTH (FEET) UNIFIED SOIL SYMBOL	i	IL DESCRIPTIO	ON	PENETRATION RESISTANCE	ICE DESCRIPTION	DEPTH (METRES)	0 4 **	=		NCON 10	FINED	STREM 150	ETH 20 -1 LIQ LIM	k Pa 00	25		CLAY	SILT	-SIZI YSIS QNPS 9	;	RELATIVE MOISTURE CONTENT	CHAIN 1864 RE		
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SOIL DESCRIPTION  SOIL DESCRIP	OLE No. \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
SOIL DESCRIPTION    Solid   Description   De	REMARKS
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2- CLAY - SILTY - CAGANICS - SANDY 83-17 O WAT - SANDY 84-16 O SAT.  RED-PLASTIC 3 - 79-19 2 WET - 19 2 WET - 16 GRAVEL - SANDY 4 - 2-23 15 WET - 24 26-28	
6-CI PABBLES 8-IB 2 WET 10- 12- 13- 14- 16- 18- 18- 18- 18- 18- 18- 18- 18- 18- 18	
6-C1 REBBLAS 10-10-112-112-113-114-115-115	
80-18 2 WET  10- 12- 13- 14- 16- 18- 3.7m  VX  5  VX  5  VV-VY  80-18-2 WET  VET  VX  10- 10- 10- 10- 10- 10- 10- 10- 10- 10	
12 GRAVEL - SANDY 3.7m  14 16- 18-GW 20- 21- 22- 24- 26- 28-	
14- GRAVEL - SONDY  14- 16- 18- GIV 20- 22- 24- 26- 28- 28- 28- 28- 28- 28- 28- 28- 28- 28	
16- 18- 20- 22- 24- 26- 28-	*
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PEPTH (FEET) UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	N	PENETRATION RESISTANCE	DESCRIPTION	DEPTH (METRES)	Δ.		IC			ENGTI O	F DRY		IGHT) ю 0% юо+		ANAL	-SIZI YSIS QNPS %	id i	RELATIVE MOISTURE CONTENT	CHAINAGE	OFFSET
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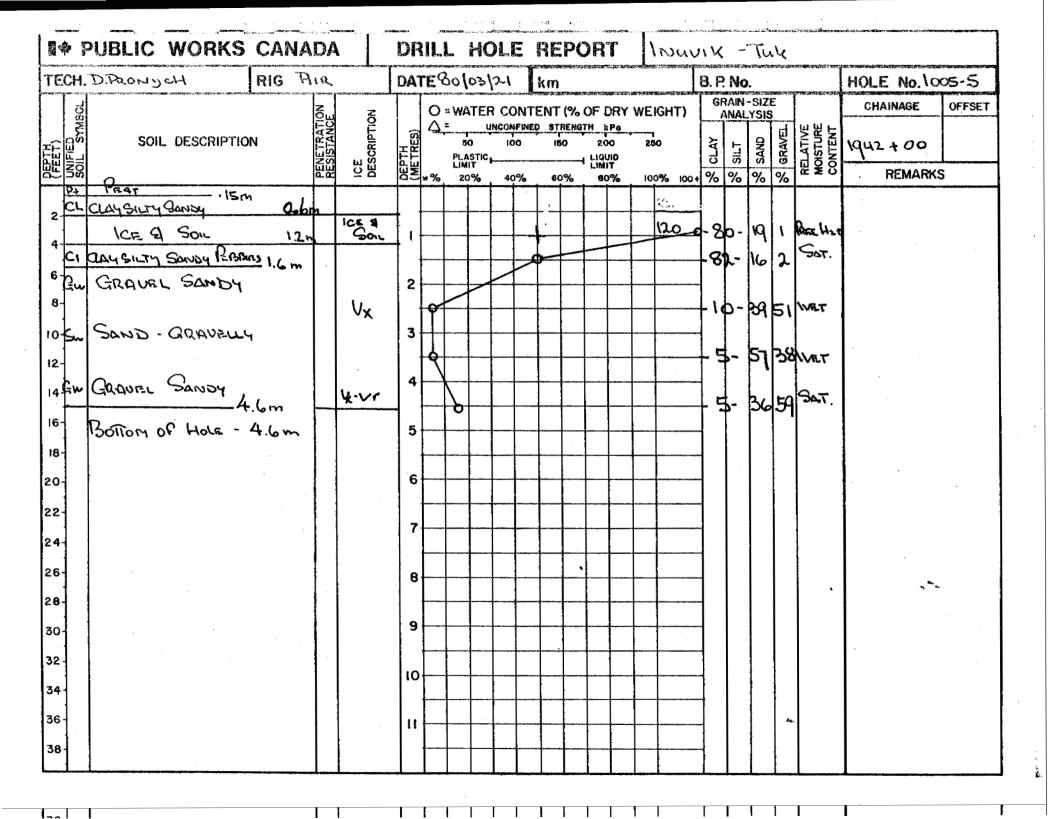
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* PUBLIC WORKS CANADA	PRILL HOLE REPORT   MUNK - TUK.	, advisorint, reduceries, . Advisory
TECH.D. PRONIGH RIG AIR	ATE 80/03/20 km B.P. No.	HOLE No.1005-2
ON ESON	O = WATER CONTENT (% OF DRY WEIGHT) GRAIN-SIZE ANALYSIS	CHAINAGE OFFSET
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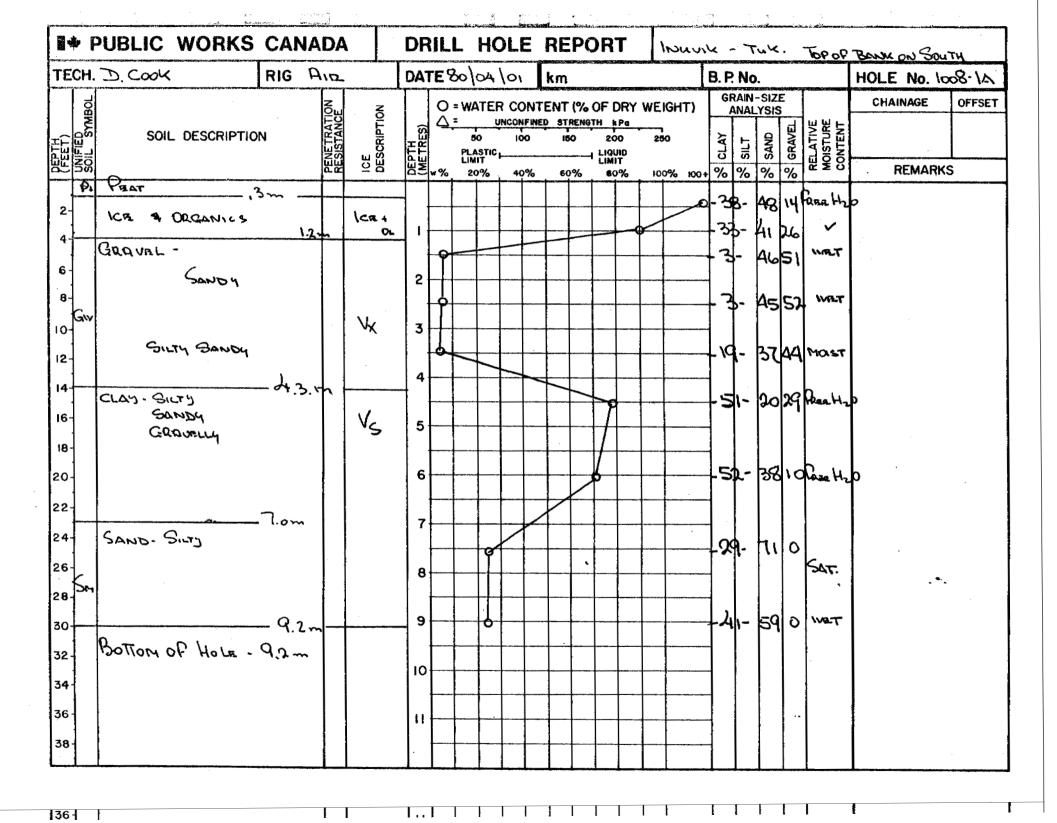
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SEPTH FEET) JNIFIED	SOIL DESCRIPTION	Z. PENETRATION	RESISTANCE ICE DESCRIPTION	DEPTH (METRES)	^ -	UNCONFIN	IENT (%	OF DRY TH kPa 200 LIQUID LIMIT	WEIGHT)	CLAY	SILT	SAND	GRAVEL	RELATIVE MOISTURE CONTENT	CHAINAGE  2014 100	OFFSET
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<b>I</b> ♦ PUBLIC WORKS	CANA	DA	DI	RILL	_ H		RE		RT	Insu	wk.	-	Ti.	· ·	a managata		***
	RIG A	a	DA	TES	0/03	121	km	(Section)	33-4-4-A			? No				HOLE No. 10	201-2
SOIL DESCRIPTION	1	PENETRATION RESISTANCE ICE DESCRIPTION	PTH ETRES)	44-	WATE 60 PLASTIC	UNCONFIN	TENT (	NOTH 2	DRY V	WEIGHT)	CLAY B	RAIN ANAL	SIZI YSIS QUAS	•	RELATIVE MOISTURE CONTENT	CHAINAGE	OFFSE1
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(FEET) UNIFIED	SOIL DESCRIPTION	PENETRATION	RESISTANCE ICE DESCRIPTION	DEPTH (METRES)	4	ــــــــــــــــــــــــــــــــــــــ	ATEF	NCONF	INED	NT (% STREN	OF DI	<u>a</u>	VEIGHT)	-	ANAI	SAND SAND	s Td	RELATIVE MOISTURE CONTENT	СНА	INAGE	OFFSE*
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(FEET) UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	N	PENETRATION RESISTANCE ICE DESCRIPTION	DEPTH (METRES)		50 PLASTI	100	FINED	NT (% STRENG	OF C	<u>Pa</u> 0	WEIG	HT)	CLAY D	NIAR IANA SILT	SAND ONES	GRAVEL "	RELATIVE MOISTURE CONTENT	CHAINAGE	OFFSE
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B- 0	BOTTOM OF HOLE.	4.6m		6																
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TECH. D. PRONYCH	RIG AIR	DATE 80/03/21 km	B.P. No.	HOLE No.1009-2
SOIL DESCRIPTIO	Z PENETRATION RESISTANCE ICE DESCRIPTION	O = WATER CONTENT (% OF DRY WEIGHT)    CONTENT	SAND SILT SILT SILT SILT SILT SILT SILT SILT	CHAINAGE OFFSET  REMARKS
2-SP SAND - FINE 2016  8-SM SAND - SILTY  10- CIRRUFIL - SANDY  12-GW  14- BOTTOM OF HOLE  20- 22- 24- 26- 28- 30- 32- 34- 36- 38-	1.2m   Ca   3   Ch   V5   VX   VX   VX   VX   VX   VX   VX	2 3 4 5 6 7 8	-1-98 1 Monet -0-94 0 Monet -58-42 0 Bank Ha -15-84 1 Bank Ha -2-4157 Mark	Þ

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	7	D. Azon	Havi	RIG A	10		DA	TE	3010	3/21	L	m					? No				HOLE No.	1009.3
	YMBOL				ATION	F.O.F.		1 /1 /	= WATE	R CO	NTE	NT (% STRENG	OF DR	Y WE	EIGHT)	G	RAIN ANAI	-SIZ YSIS	3	iii W L	CHAINAGE	OFFSET
PEETH)	UNIFIED SOIL SYMBOL	501	L DESCRIPTI	ON	PENETRATION RESISTANCE	ICE DESCRIPTION	EPTH METRES	w%.	60 PLASTI LIMIT	104 	· 	150	FIGUID	2	7. 250	CLAY	SILT	% SAND	GRAVEL	RELATIVE MOISTURE CONTENT	2125+0	
	PF.	VRAT		·15 m				\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	20%	+0'	<u>*</u>	60%	50%	10	00% 100-	1 %	%	%	%	E 2 0	REMAR	KS
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6 -	1 1	CLAY -	Sirty				2									]				,		
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-	CH. D. PRONY	CH	RIG A	IQ		DATE	80/03	121		km				8. F			4.055%.65.		HOLE No. 10	209-4
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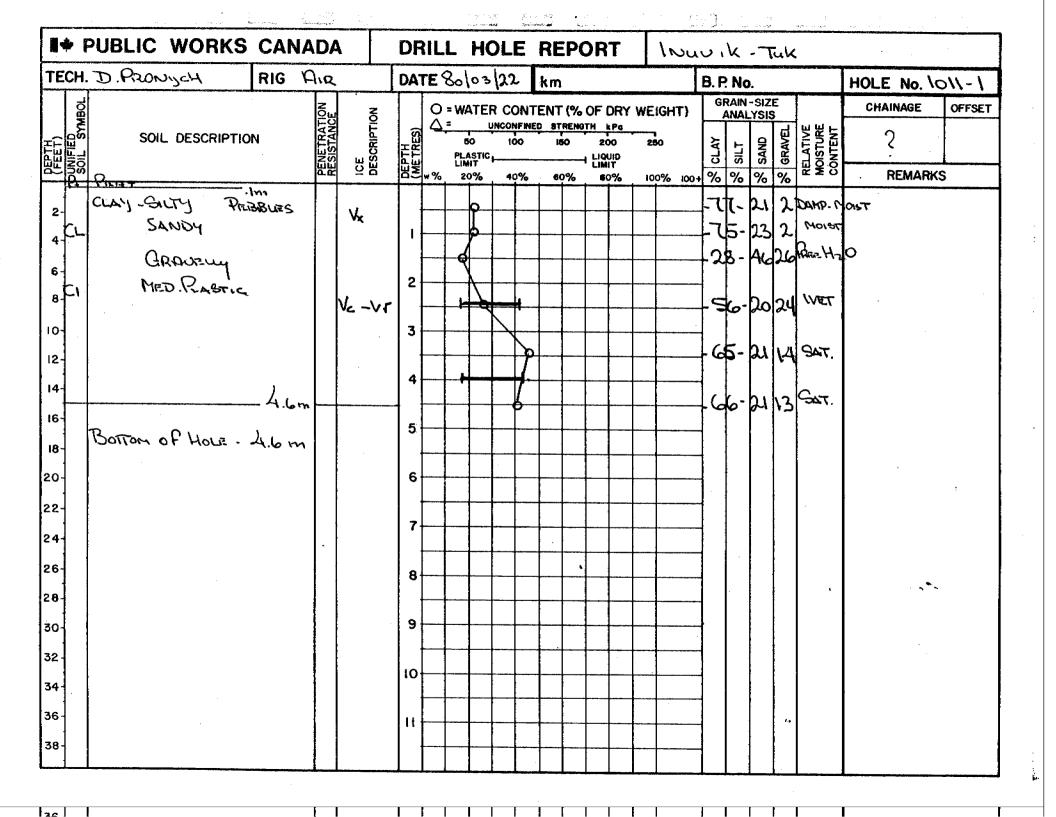
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4-	<u></u>	MO. Rastic	-1.2m		Ve-vr	1	-		۴		-	<u> </u>		[							VET		*
6-	G۳	GRAVEL - SAND - SIG	T MIX				_	Ø			<del> </del> -					<del></del>	_2	\ -	42	37	507.	Rea H <sub>2</sub> 0	
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DEPTH (FEET) UNIFIED	O I	N .	PENETRATION RESISTANCE ICE DESCRIPTION	DEPTH (METRES) %	50 PLASTIC LIMIT	100	ED STREN	200 LIQUID	250	CLAY	SILT	SAND	GRAVEL	RELATIVE MOISTURE CONTENT	2188 too	
23	CLAY-SILTY		V <sub>k</sub>	Δ5 w %	20%	40%	60%	80%	100% 100	0+ %	%	%	%	E > 0	REMARKS	<u> </u>
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SOIL DESCRIPTION    A			PUBLIC WORKS									RE	PO	RT	<u></u> \	Nuv	·\K		Tul	——·	er Koronogly <mark>kowanie</mark>	-	1	<del>*************************************</del>
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	·		ATION NCF	Š		0	= WAT						WEIGHT)	G	RAIN ANAL	-SIZI -YSIS	E S		CHAINAGE	OFFSET
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(FEET) UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	N	PENETRATION RESISTANCE	ICE DESCRIPTION	DEPTH (METRES)			UNCOI	ONTE	ENT (% STRENG	OF DR	 (IGHT)		IAMA	SIZE YSIS SAND	% GRAVEL	RELATIVE MOISTURE CONTENT	CHAIN	AGE	OFFSE1
2 - Cl 6 8 0 2 - Cl	ICE & Sal	1.8n 2.71 311	23	Vs ICE + CL Vs	2 3 4 5 6 7 8 9 10 II	w %	20%	40	2%	60%	90%	119		9%	<b>%</b>		DATE SAT. PERALLY		EMARK	S

* PUBLIC WORKS	CANADA	DRILL HOLE REPORT   Nouvik - Tak.	S COLUMN CONTRACTOR (CANADA
CHAPTER TO THE REAL PROPERTY OF THE PROPERTY O	RIG PIC	DATE 80 03 22 km B.P. No. HOLE No. \	012-3
SOIL DESCRIPTION	PENE RESIS: ICE DESCE	O = WATER CONTENT (% OF DRY WEIGHT)    Content	OFFSET
2-CI CLAY - SILTY GROWERS  6-GRAVEL - SANDY  10- 12- 14-SM SAND - SILTY GROWERS  16-BOTTOM OF HOLE -  20- 22- 24- 26- 28- 30- 32- 34- 36- 38-	12m VX VX -4.0 -4.0 -4.6m	-74-25 1 Mast -73-26 1 Most-vat -15-47 38 H.1.8 -7-27 66 Sat. -4-30 66 West -4-56 10 Most -5	

TECH.	D. Cook.	RIG YAIR		T	DRILL HOLE REPORT INUNK - TUK	
				D/	DATE 90/03/31 km B.P.No. HOLE 11 10	~ ).
PEPTH (FEET) UNIFIED SOIL SYMBOL	SOIL DESCRIPTIO	PENETTRATION	RESISTANCE ICE DESCRIPTION	7TH Jordan	O = WATER CONTENT (% OF DRY WEIGHT)  GRAIN-SIZE ANALYSIS  CHAINAGE OF	ス・4 OFFSET
2- 0	PRAT .? CLAY - SILTY PREBBLES	3 m	ارد -∧ <sup>ر</sup> ⊆		1	
4-CL	Low Kagric		V <sub>S</sub>		Danis	
8- 10-Sp Se	LND- PABBLES		ICE	3		
14 Gn G0	RAVEL. SILTY	h (	V.	4	Rage Wo	
B.	oftom of Hola- 4.	6m		5	118 o	
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		RIG FIR	- 1		E80/03/					-	P.N		-		HOLE No.	1012 = 5
(FEET) UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	ANCE OTION		2	O=WATER (	UNFINED	IT (%	OF DRY	WEIGHT)	G	RAIN	I-SIZ LYSI:	S		CHAINAGE	OFFSE
		PENETRATION RESISTANCE ICE DESCRIPTION	FOTC	METRE	PLASTIC	100	160	FIMIT SOO	100% 100	CLAY	SILT	SAND	GRAVEL	RELATIVE MOISTURE CONTENT		
<u> </u>	PRAT CLAY, SILTY ARBBURS ORGANISS	The state of the s		3 W Y	20%	10%	60%	60%	100% 100	%	%	%	%		REMARK	(S
Cu	C. 74 D. B.O	V <sub>e</sub>		1			<b>6</b>							DAMP Rome Hat	<b>)</b>	
GM (	Law Rasme  GRAVEL - Sicry	1 1	7	2	19	<del>                                     </del>								WET.		
a. Sc	SAND GRAVELLY CLAY	-2.7m   Ve -V		3										SAT.		
	SAND GROWING	\ \\\s		4			2						\$	Hiter Ha	<b>.</b>	
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SOIL DESCRIPTION OF THE PROPERTY OF THE PROPER	N	NETRATION	ICE DESCRIPTION	PTH TRES)	00		ATER	HCONFII 100	IED ST	RENGT O	H kP4 200		EiGHT) 280	CLAY	<u>ANA</u>	V-SIZ LYSI:	% GRAVEL	RELATIVE MOISTURE CONTENT	C	HAINAGE	OFFSE
GC GROVEL - SANDMIX C		2.2		T	w %	2:	0% 	40%	60	%	LIQUID LIMIT 60%	1	00% 100	%	%	%	%	REI CON		REMARK	. I
SM SOND- GRAVELLY S.	-sylvy		۷۰ - ۲۸			<b>P</b>							-					lvet lvet			
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_	유입	SOIL DESCRIPTION	)NI	ANCE ANCE PTION		O = WATER CON	TENT (%	OF DRY W	(EIGHT)	_	ANA	I-SIZE LYSIS		CHAINAGE	OFFSET
DEPT		10		PENETRATION RESISTANCE ICE DESCRIPTION	SEPTH	PLASTIC LIMIT	150		250	CLAY	SILT	% SAND	RELATIVE MOISTURE CONTENT	232212375	
2	ķ.	CLAY - SUTY SANDY . THE REST. C.	سرا		F	20% 40%	60%	60%	100% 100	%	%	% 9	% E S S	REMARKS	
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6	1	ICE		<del>                                     </del>						- 10	1-	A83	311027		
6	-	1012			2					-74	3-	314	USAT.		
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TECH. D. PRONYCH RIG PA				_ HC		_		RT		lnu	,v,l	人 -	- 7	inh	<b>.</b>		
	15	<u> DA</u>	ATE	0/03	22	kn	)	وسين بدارات			B. I					HOLE No. 10	13-3
SOIL DESCRIPTION	S S			WATER	CON	TENT	Γ (%	OF DR	Y WE	IGHT)	G	RAIN ANA	I-SIZ LYSI:	Έ S		CHAINAGE	OFFSET
1000 1000 1000 100	PENETRATION RESISTANCE ICE DESCRIPTION	PTH		50 PLASTIC L	100	ED SI	50	H kPa 200 LIQUID LIMIT	2:	50	CLAY	SILT	SAND	GRAVEL	RELATIVE MOISTURE CONTENT	2341+00	
EL YEAT			5 w %	20%	40%	6	0%	60%	10	0% 100	+ %	%	%	%	# ₹ 8	REMARKS	
2-CL CLDY-SILTY PEPSOLES 4-CL LOW-MED. PLASTIC				a		+					-			ļ	Moist Rec Ha		
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	CH. D. PRONYOH	RIG	710		DA <sup>*</sup>	TE	. જ	0/0	3/2	۲2.	k	m					B. F	? No	).			НС	LE I	No. 10	13-4
	SOIL DESCRI		CE	Š			ν = C 2 = Δ	WATE	ER (	CONT	TEN	IT (%	oF	DRY	WE	(IGHT)	G	RAIN ANAI	-SIZ	S			CHAIN,	\GE	OFFSET
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F	4 PRAT				حم	w 9	% 	20%	+	40%	1	60%	-	0%	10	10% 100	%	%	%	%		<u> </u>	RE	MARKS	<u> </u>
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6	Law Plasm	c	V.	\$	2																fore Vat	EQ.			
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PEPTH (FEET) UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	Ž PENETRATION RESISTANCE	ICE DESCRIPTION	METRE	<b>₩%</b> .	PLASTIC LIMIT			150	- LIQU		250 100%		CLAY	SILT	SAND	% GRAVEL	RELATIV MOISTUR CONTEN	246	2 1 00 REMARK	
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	I. D. PronyoH	RIG AIR			03/23			B. P. No.		HOLE No. 10	16 2
(FEET) UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	PENETRATION RESISTANCE	DESCRIPTION	RES	ATER CON UNCONFINE 1000	TENT (% OF DR)  ED STRENGTH HPG  150 200  Liquid Limit	WEIGHT)	GRAIN-SIZ ANALYSIS	; <b> </b>	CHAINAGE  2468+00  REMARKS	OFFSE1
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\* PUBLIC WORKS CANADA DRILL HOLE REPORT TECH. D. PRONYCH Muurk - Tuk. RIG FIR DATE 80/03/23 km B. P. No. HOLE No. 1016- 2 O = WATER CONTENT (% OF DRY WEIGHT) GRAIN-SIZE ANALYSIS CHAINAGE **OFFSET** UNCONFINED STRENGTH KPG SOIL DESCRIPTION 250 CLAY
000, 000+ % % % % % WOISTURE CONTENT ACTIVE CONTENT ACTI 100 REMARKS DRGANICS & KE MOIST 4 ICE 4-HERRIVATER 6 -~ CLAY-GILTY LOW PLASTIC 8-SOT. 10 3 Vς 12-SAT- FARE INSTER 14-16-BOTTOM OF HOLE. A.L. T.SN/ 18-20-6 22-24 26 8 28 30 9 32 10 34 36-38-

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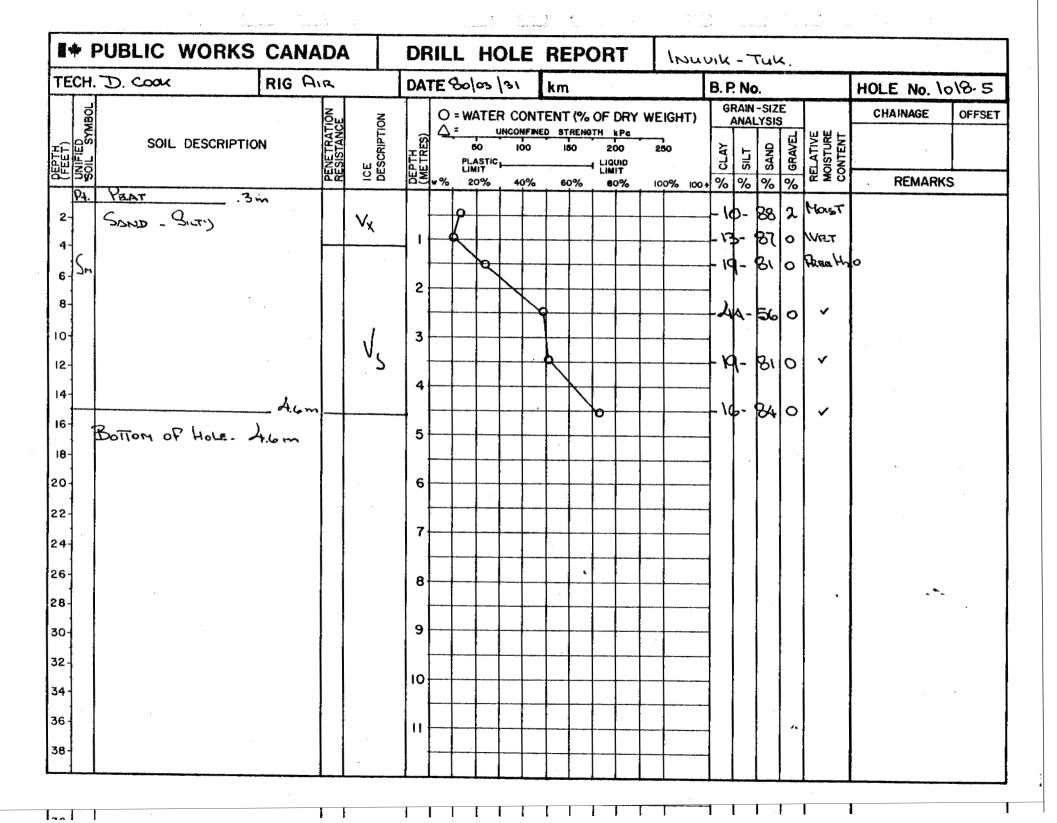
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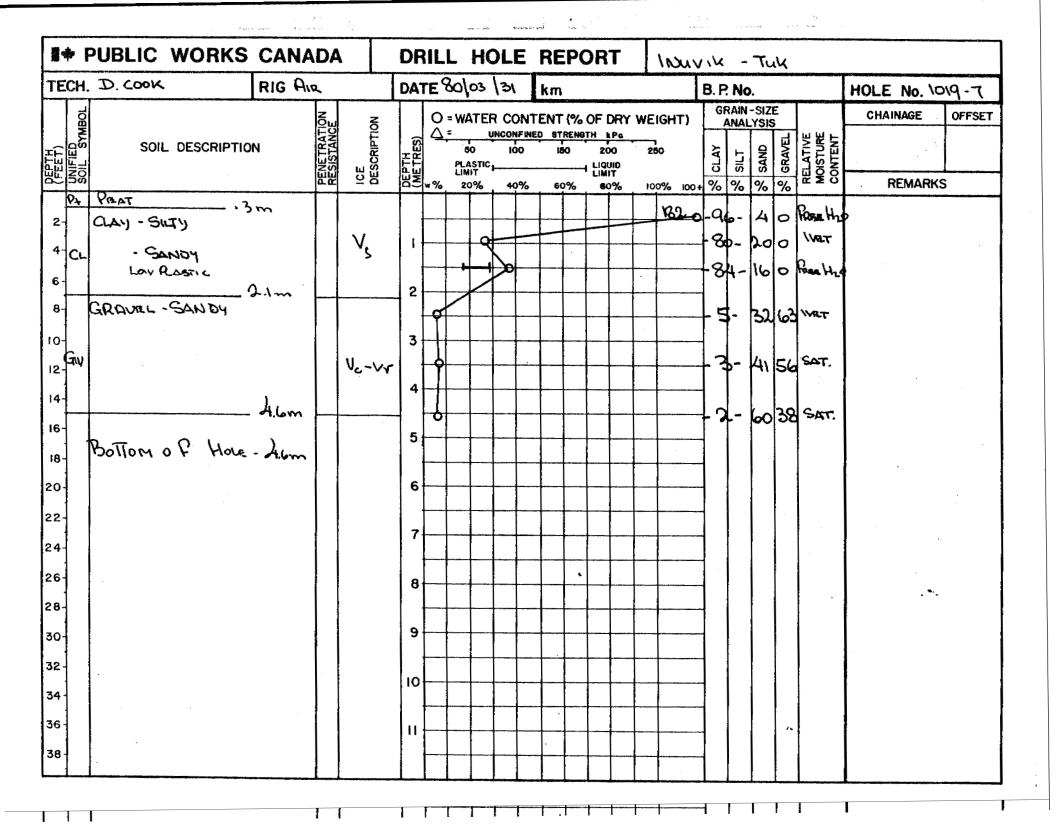
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## Appendix D

## SEARCH AREAS #13, #14, #15 and #16

Landform and Location: An eastern extension of the Caribou Hills that has

been dissected by melt-water channels. Located some 25 miles north of Inuvik at Mile 996 - 97 of

the Mackenzie Highway.

Material: Poorly indurated sandstone which reduces to fine

wet sand or silty sand upon thawing. Minor shale

or clay shale.

Stripping: Probably five to six feet in selected areas.

Volume: Unlimited.

Conclusion: Not recommended for development unless staged

is wet or saturated upon thawing and would have little shear strength until drained. In addition it would be subject to severe wind erosion in an embankment on the open tundra unless enveloped in capping material. There is better borrow roughly three miles to the north (Area #18) where shale is available in quantity. This area would

be a good source of roadside borrow if staged

construction is proposed. The fine sandy material

construction is proposed.

## Topography

This search area is part of a broad ridge some 200' above the surrounding terrain that is an eastern extension of the Caribou Hills. The alignment crosses the ridge between roughly Mile 995 and Mile 1005. The high ground has been glaciated and meltwater has cut large spillways that dissect the uplands. There is a variable thickness of glacial till on the high ground which forms a flat to gently rolling morainic plain. The till commonly contains excess ice in the form of ice lenses, wedges and massive ice. In some cases where icy materials have been exposed and ice slumps (retrogressive - thaw flow slides) have developed, terraces have formed along the spillways or surface depressions have occurred. The spillways

have been partially filled with alluvium from tributary streams and colluvium from erosion of the bordering escarpments. The most common "bedrock" type in the area adjacent to the highway is unconsolidated or weakly consolidated sandstone. There are also interbedded clayey seams and some shale and siltstone strata. Continuity of beds is limited hence there are variations is bedding sequences from locality to locality. The degree of induation and consolidation also varies even within unique stratigraphic units. There is well indurated sandstone exposed along the creek in the bottom of the meltwater spillway west of Area #16 (see 1" = 1,000' photo), however this more highly consolidated strata was not encountered at a higher elevation. The amount of ground ice that is present within the sand depends in part on the porosity of the strata, which is inversely related to the degree of induration and consolidation. Thus the majority of the higher level strata, which were test drilled in Areas #13 to #16 and which are not well indurated, contain sufficient excess ice that the sandy material is wet or saturated upon thawing.

## Materials and Quantities

The majority of test holes were drilled along the edges of meltwater channels where overburden above the sandstone strata is minimal. All areas were permanently frozen and all contained excess ice, some with massive ice inclusions. Areas #13 and #16 are the better of the four areas drilled, however there is sufficient ice in even these areas that the fine grained sand and silty sand is wet or saturated upon thawing. The sandstone is very poorly indurated and is 'bedrock' only in geologic terms. The material upon thawing has no inherent strength or structure and reduces readily to fine sand or silty sand. Moisture contents generally range around 20%. Overburden material consisting of very ice-rich sandy silts or clays is usually not less than five feet to six feet in thickness.

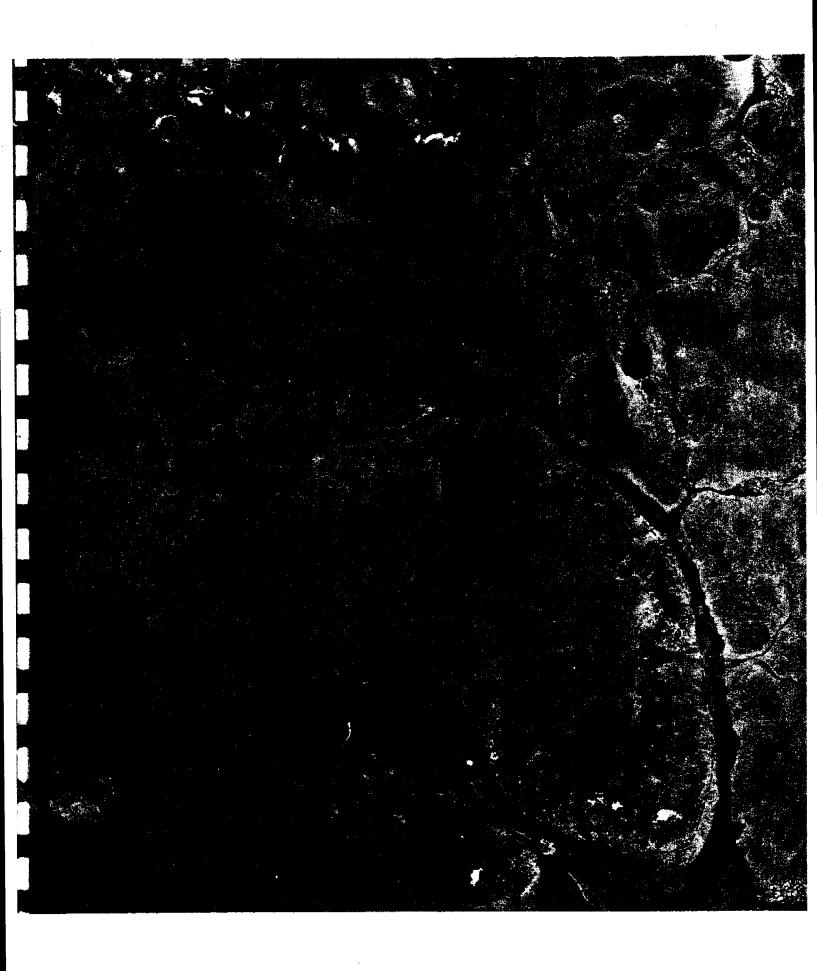
Quantities of the sandy material are unlimited, however, this source should only be considered for development if staged construction is proposed. Subsoil moisture is relatively low near the alignment (centerline holes #995-2 and 3, #996-2 and #997-1, 2 and 3) and a roadside borrow pit could be developed. If the sand subsoil were placed in an embankment in a frozen state it would probably thaw and drain

without flowing, however, wind erosion may be a problem and it is anticipated the sand would have to be completely enveloped in shale capping.



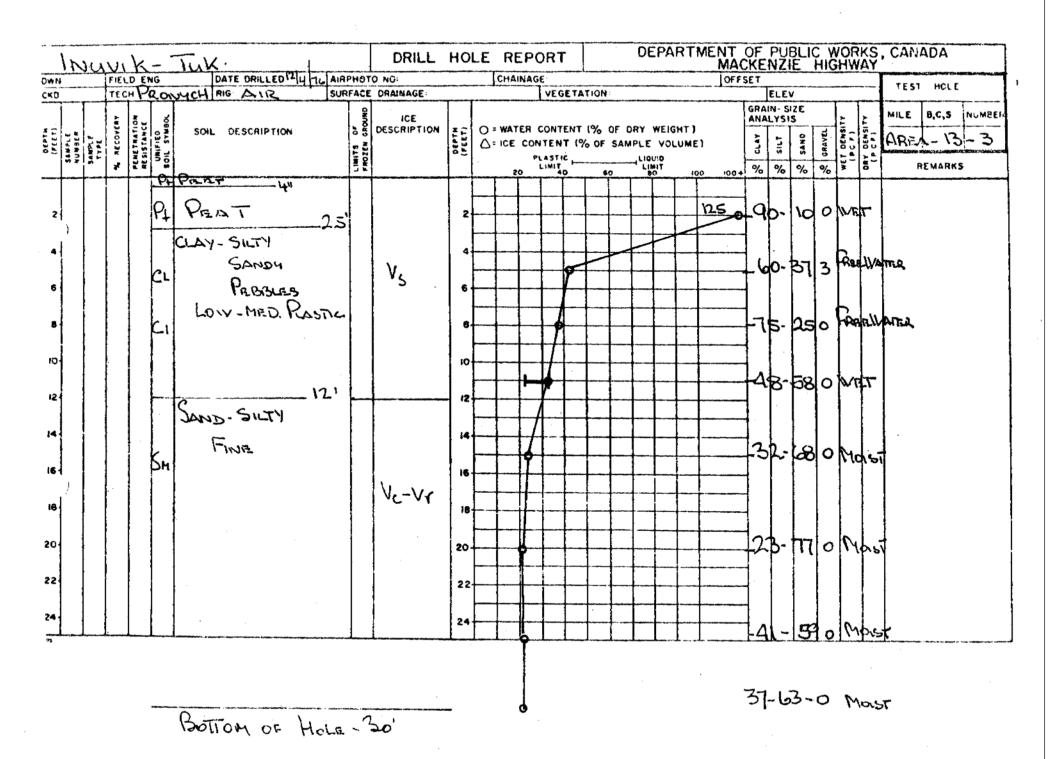






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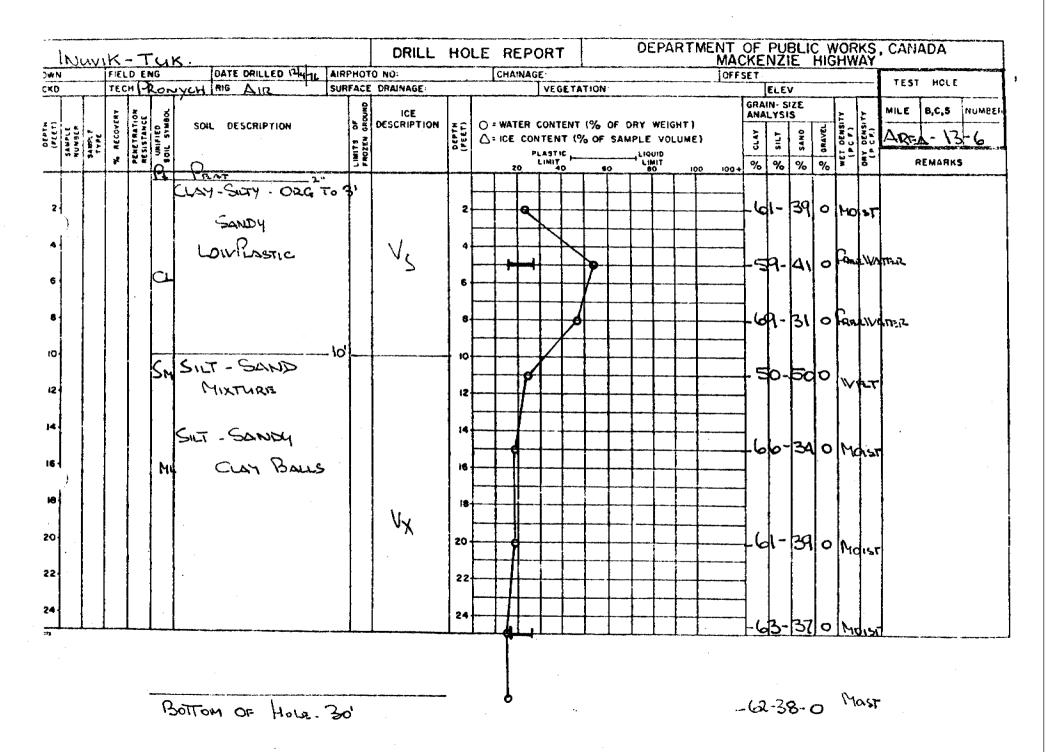
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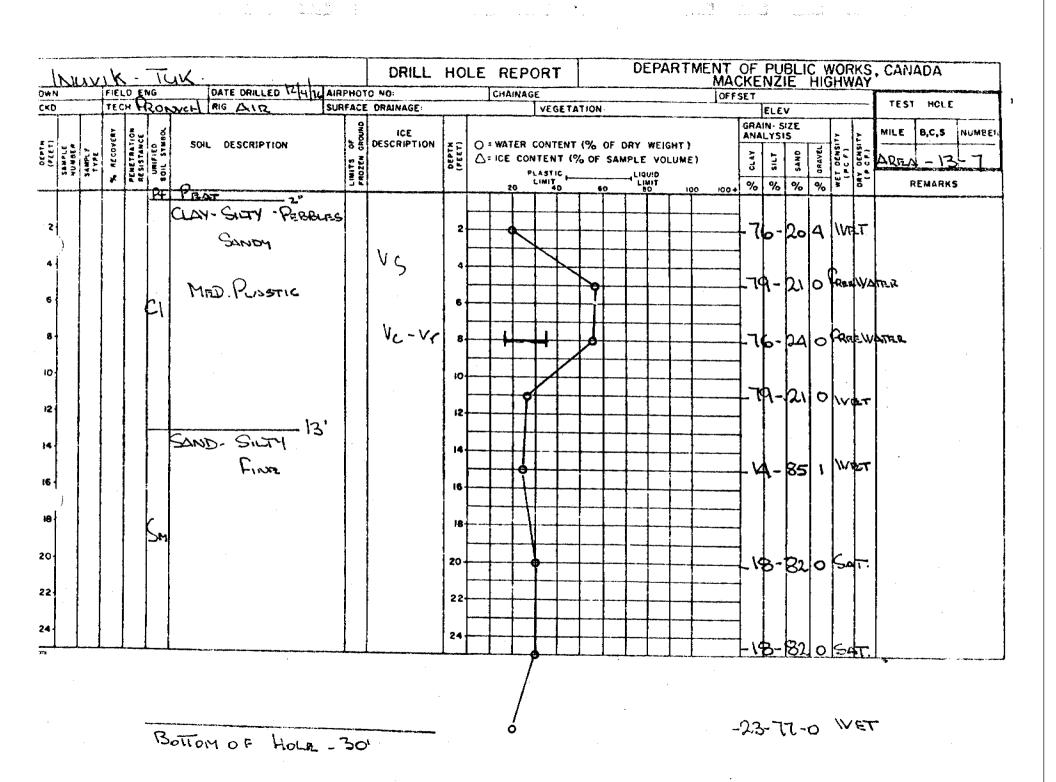
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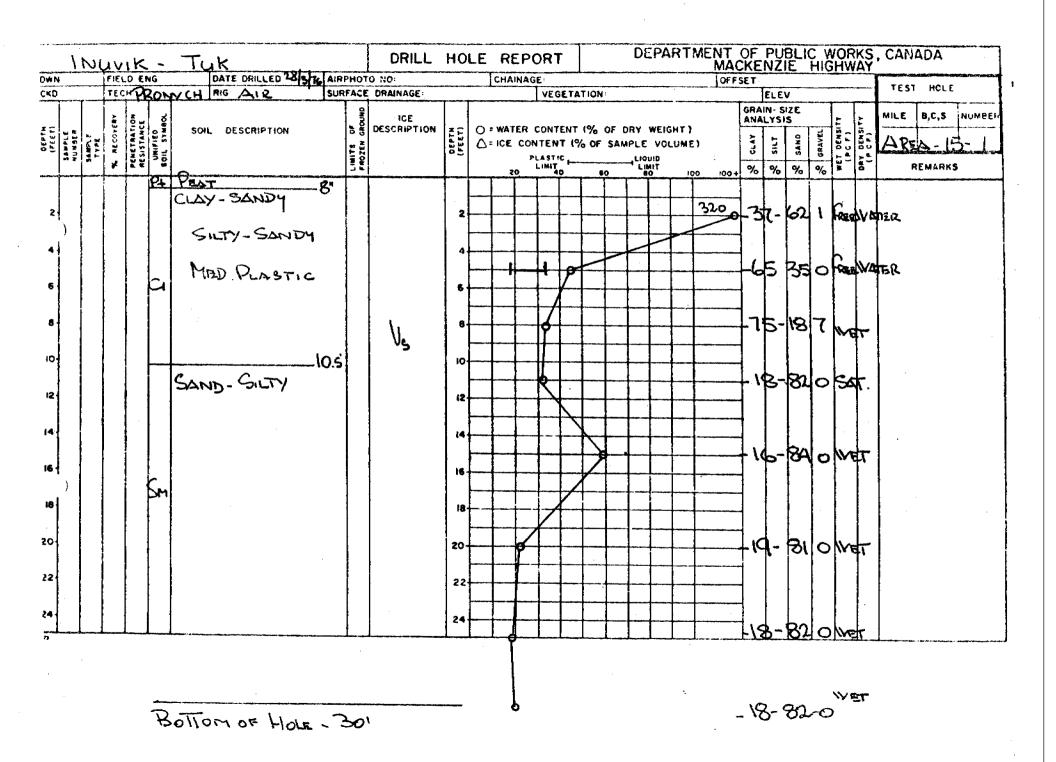
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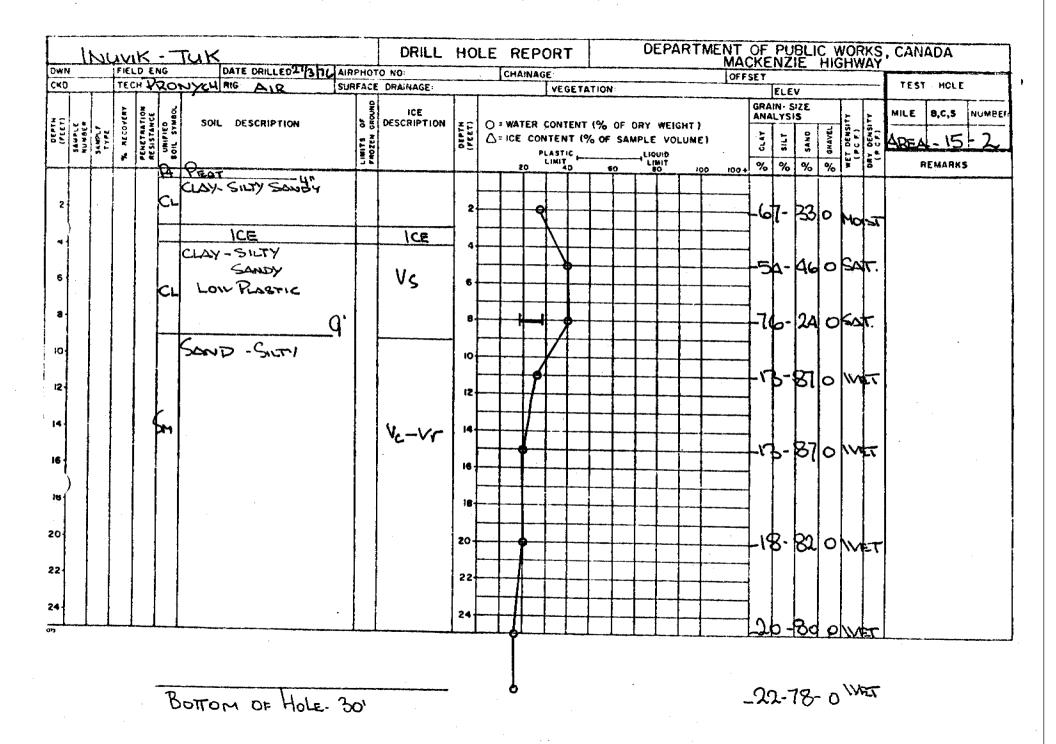
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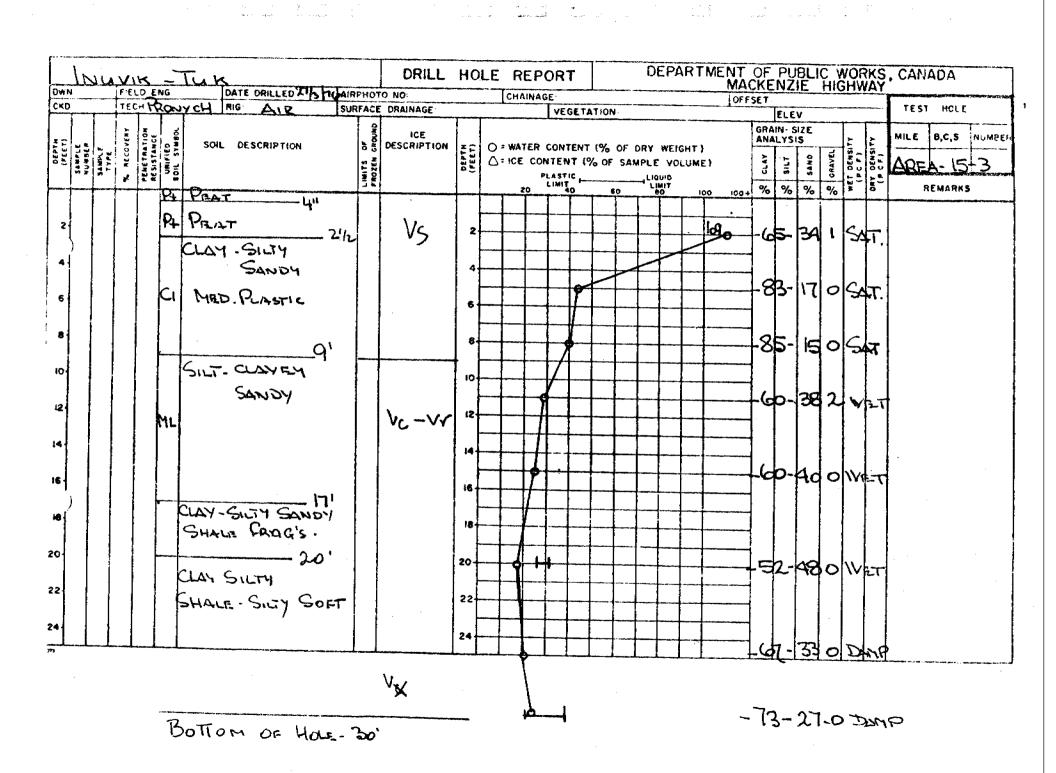
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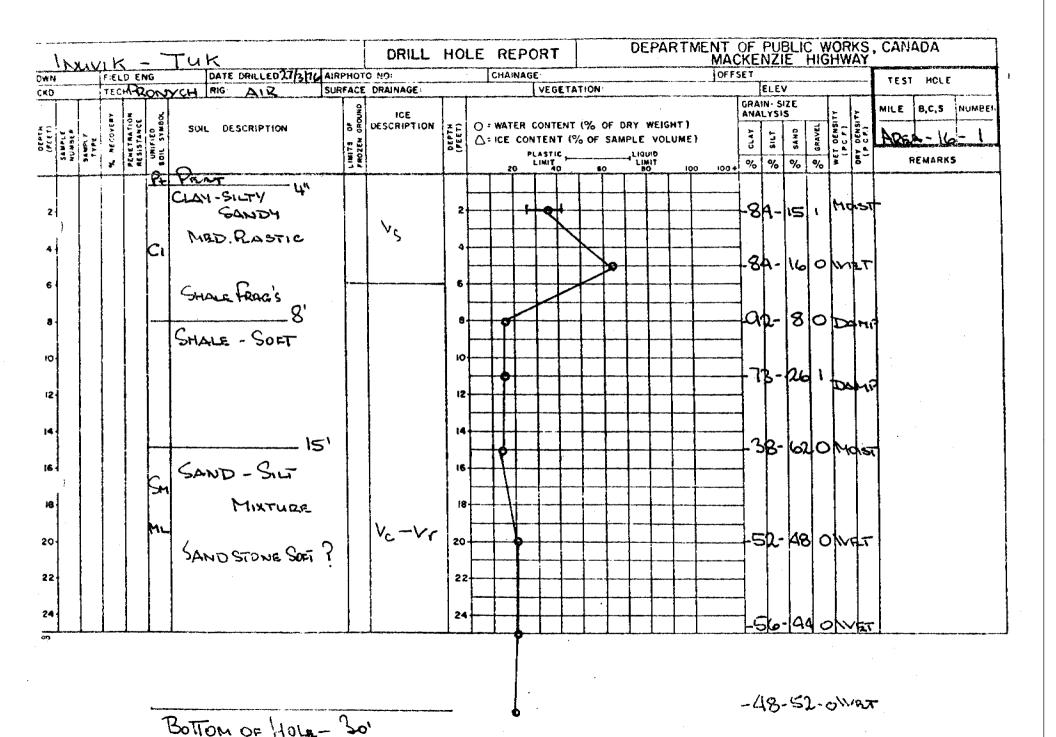
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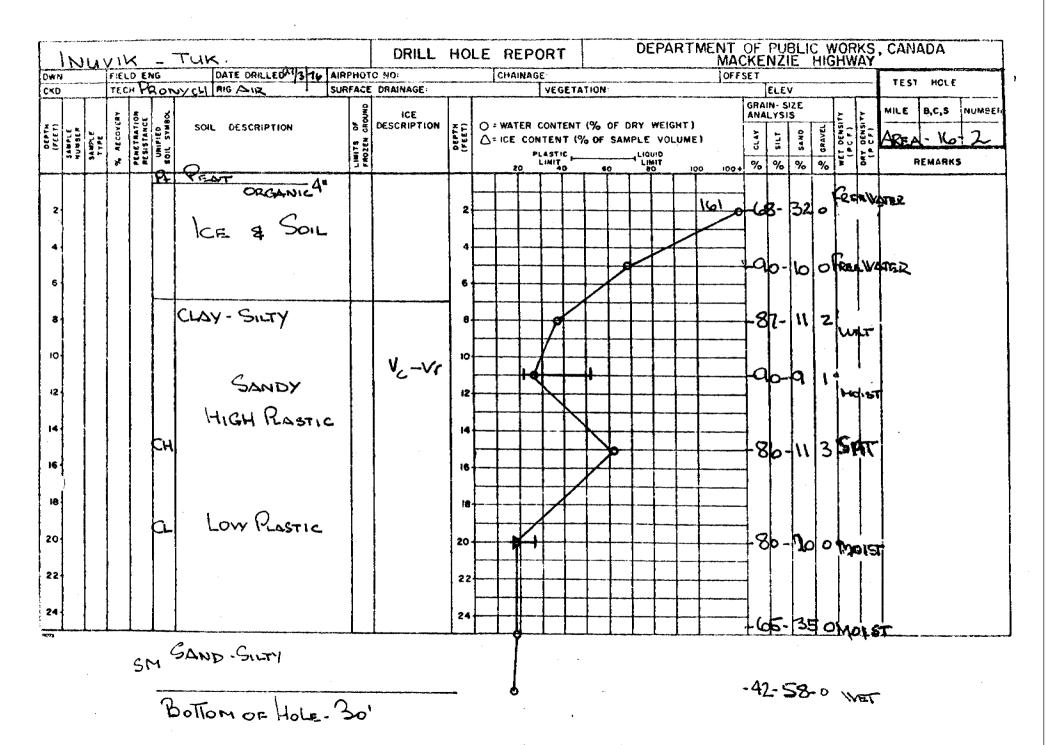
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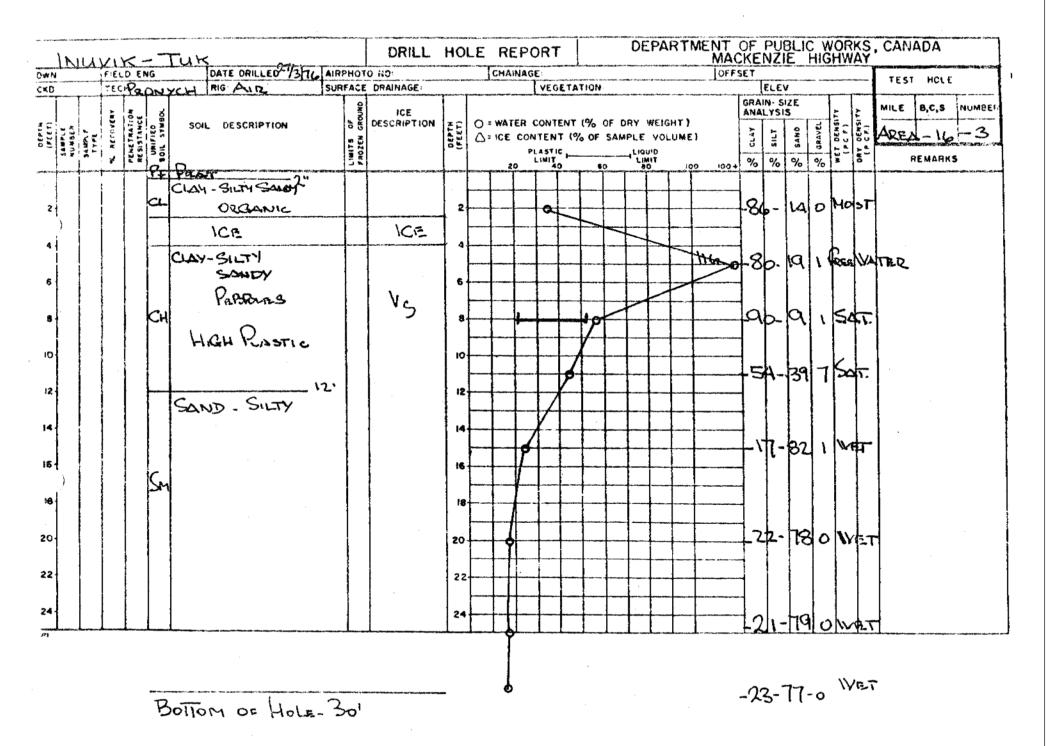


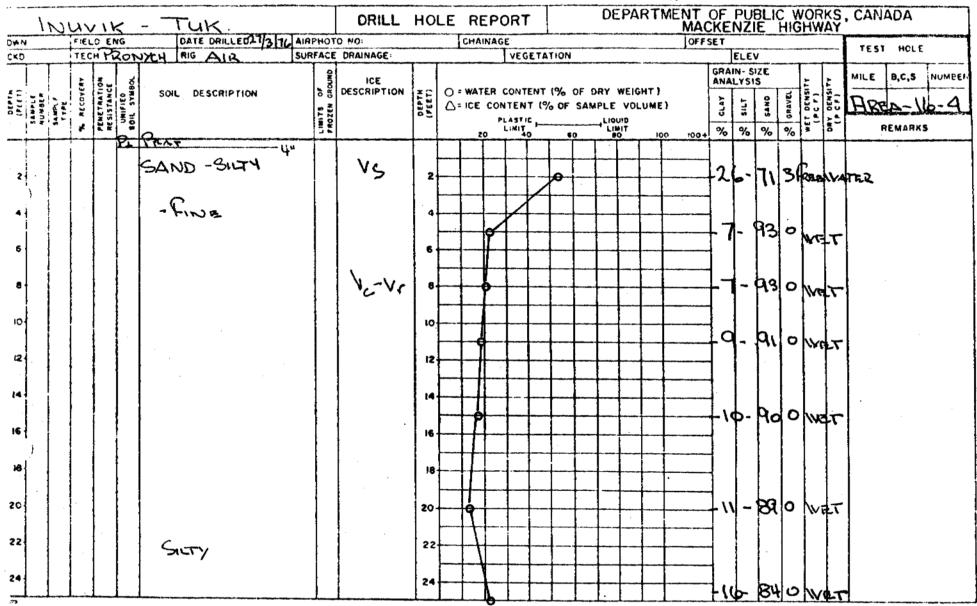


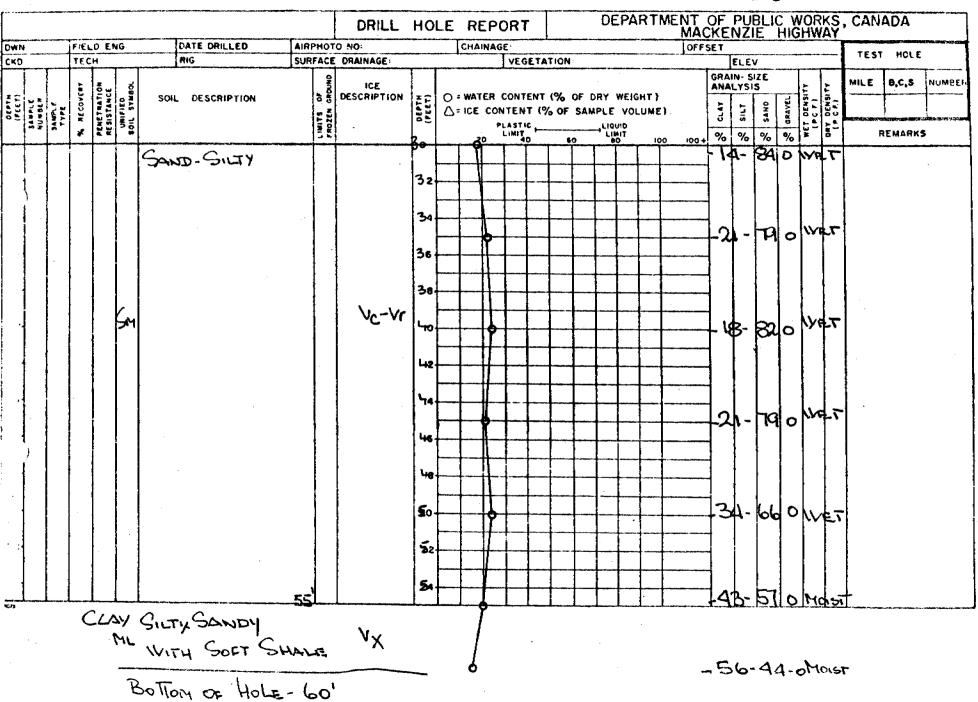




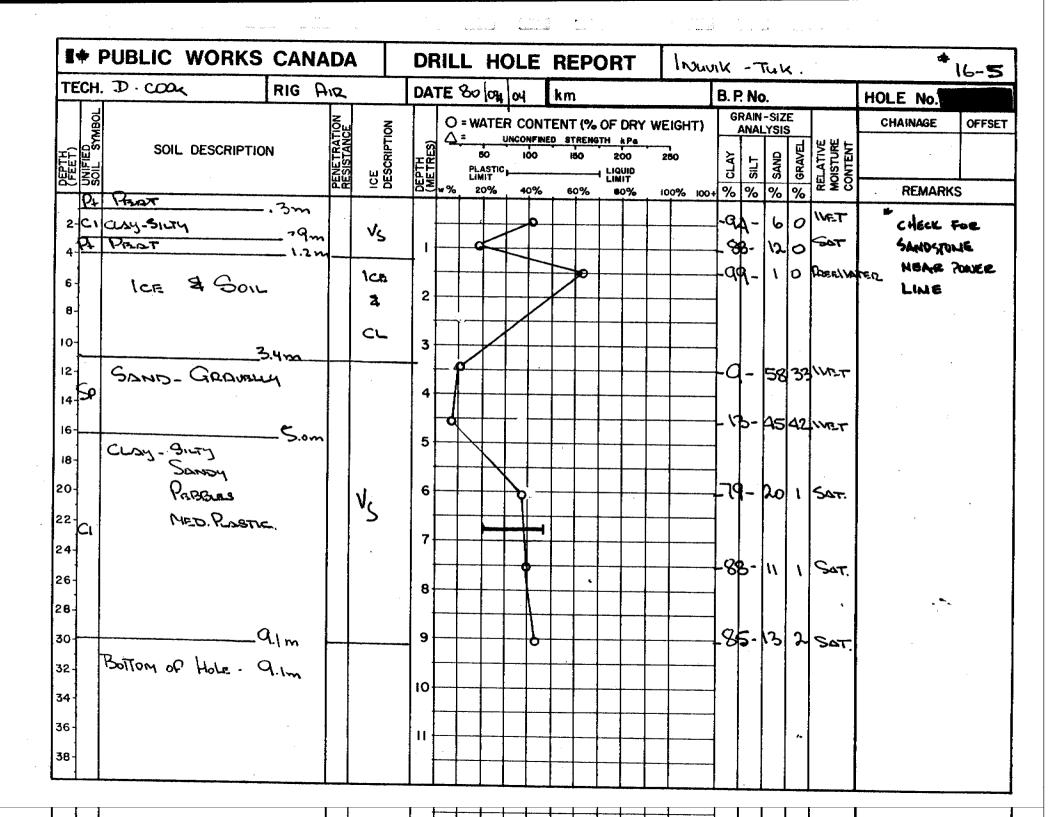








Mr. - Carr Chara



## SEARCH AREAS #17 and #18

Landform and Location: An escarpment and benches along a glacial meltwater

channel incised in a bedrock controlled ridge that is an extension of the Caribou Hills. Located some 28 miles north of Inuvik at Mile 1000 on the

Mackenzie Highway.

Material: Poorly indurated and consolidated shale, clay shale,

siltstone and sandstone.

Stripping: Variable from 0-5' on the tops of ridges to

possibly 15'+ on the lower flanks of the ridges.

Volume: Approximately 1,000,000 cu. yds. with some

stripping.

Conclusion: Good borrow source. Area #18A is the primary

source. Area #18B can be developed as a secondary source if necessary. Area #18C is not recommended

due to excess overburden.

## Topography

This borrow area is part of the eastern extension of the Caribou Hills described previously. The areas test drilled here (#17 and #18) consist of the escarpments and benches adjacent to an ancient glacial meltwater channel which dissects the uplands. There is ice-rich glacial till on the surface of the uplands, however, along the exposed, south-facing, northern escarpment and upon benches on the north side of the spillway (Area #18), the icy overburden soils have been reduced largely by thermokarst activity. The sides and bottom of the spillway and the flanks of the benches on the north have variable thicknesses of colluvium and alluvium, all of which contain variable amounts of ground ice. These sediments increase in thickness toward the bottom of the spillway. On the southern side of the spillway (Area #17) there is an abundance of massive ice along the edge of the escarpment that is a complete contrast to the extensive thermokarst activity that has occurred on the exposed northern side.

There is a small creek flowing in the spillway at present which has incised the bottom and developed some small granular terraces.

## Materials and Quantities

The bedrock here is slightly more indurated and consolidated than the sandstone in Areas #13 to #16, however, it also has very little inherent strength when thawed. It consists of interbedded shale, clay shale, siltstone and sandstone. There are three features that contain usable borrow: i.e., #18A - a portion of the spillway escarpment which is partially free of overburden; and two lower benches - #18B and #18C. These features are denoted on the l" = 1,000' air photo included herein. Area #18A is the prime borrow source. It consists of a ridge with usable decomposed shale at the surface on the apex of the ridge, but with overburden soils on the flanks of the ridge. The material at depth is variable between soft shale and sandstone with moisture (ice) contents generally between 15 and 20%. Some of the sandy material tends to be wet on thawing, however, the shale is categorized as damp or moist in the thawed state, and with some mixing of the two materials in the grade, very little if any of the wetter material will have to wasted.

Maximum drilling depth here was 90 feet. This feature can be "day-lighted" to the east and south and stripping on the flanks will increase with depth of development. Cross-sections through the ridge are included on plates 1 and 2 on subsequent pages.

Area #18B is a ridge similar to #18A but lower. There is sand and gravel on the surface of this ridge in part which, although wet, should drain readily in an embankment. The core of the ridge is interbedded, soft shales, siltstone, and very weak sandstone which reverts to fine sand or silty sand when thawed. Maximum depth of drilling here was 90'. Cross-sections through this ridge are included on plate 3. Again stripping on the flanks will increase with the depth of development.

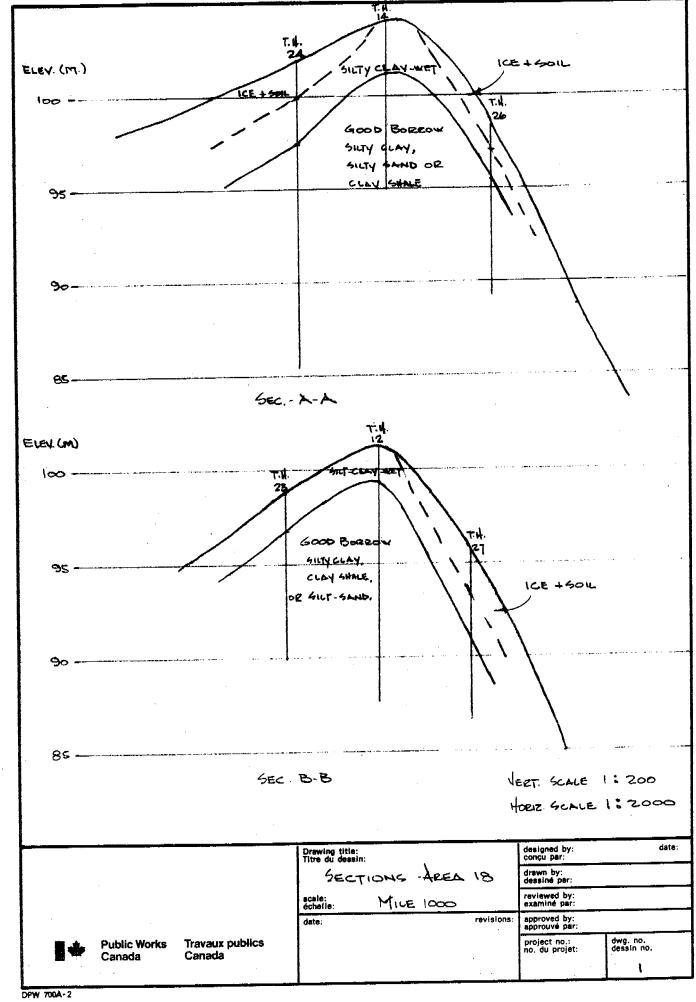
Area #18C is a low bench similar to #18B but wider and less sharply defined. The core of this ridge is similar soft shale, siltstone and weak sandstone, however, stripping is variable from eight to 15' and this feature is not recommended for development.

The edges of the escarpment to the east of Area #18C also consist of bedrock at depth, however, overburden is more extensive making development impractical.





Map Jan 1981 (large map)



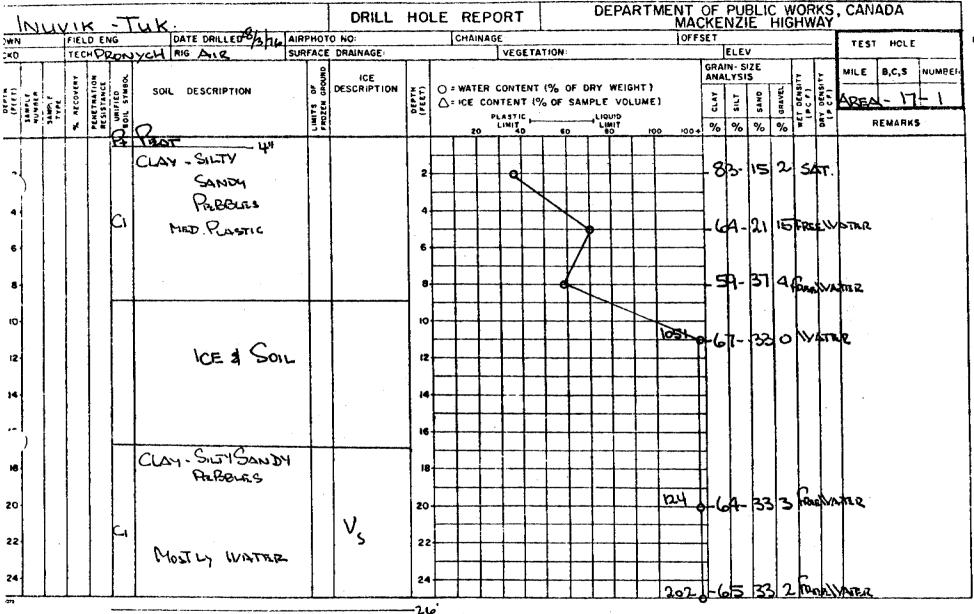
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DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY DRILL HOLE REPORT MUVIK - TUK

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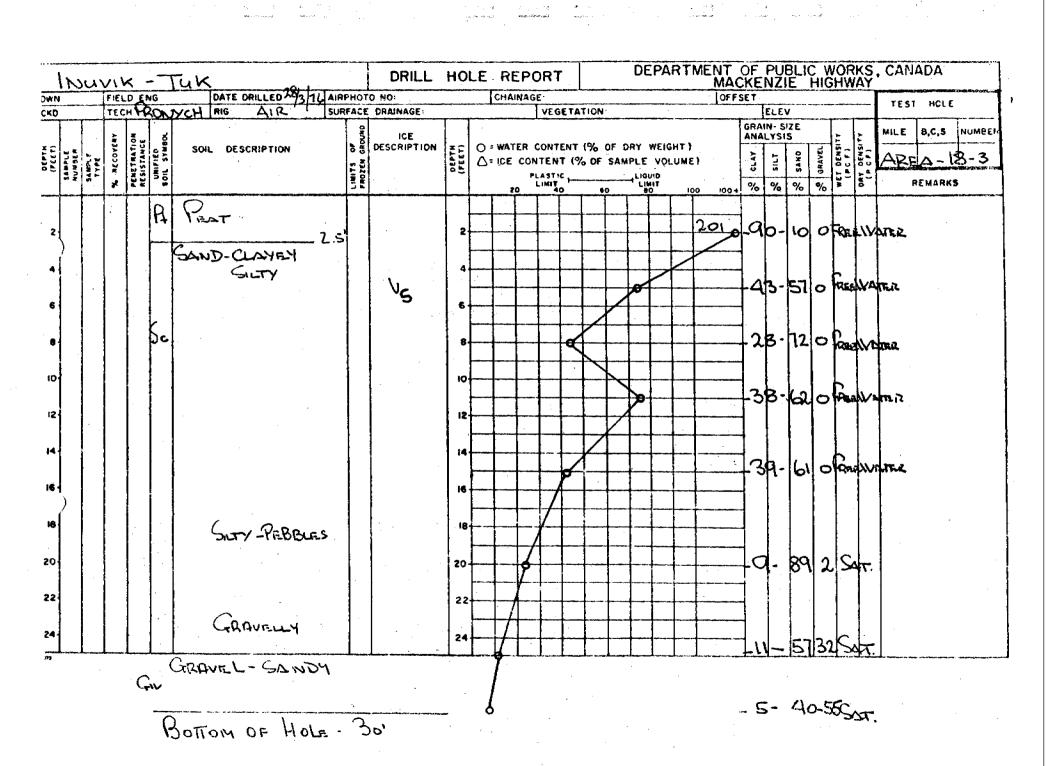
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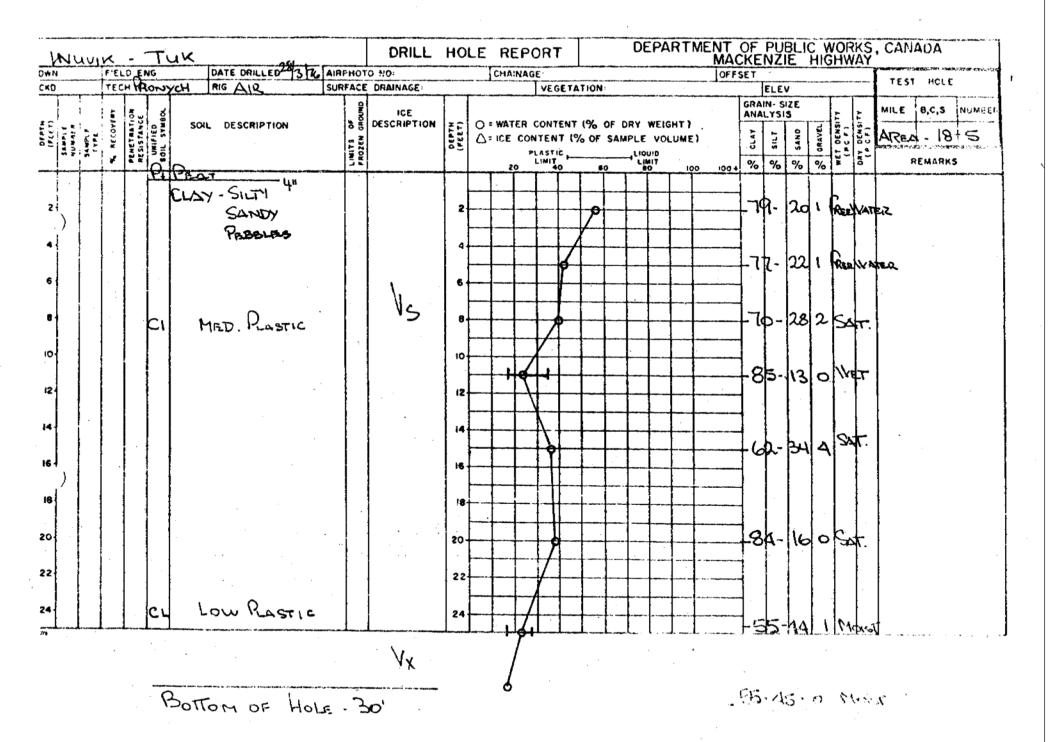
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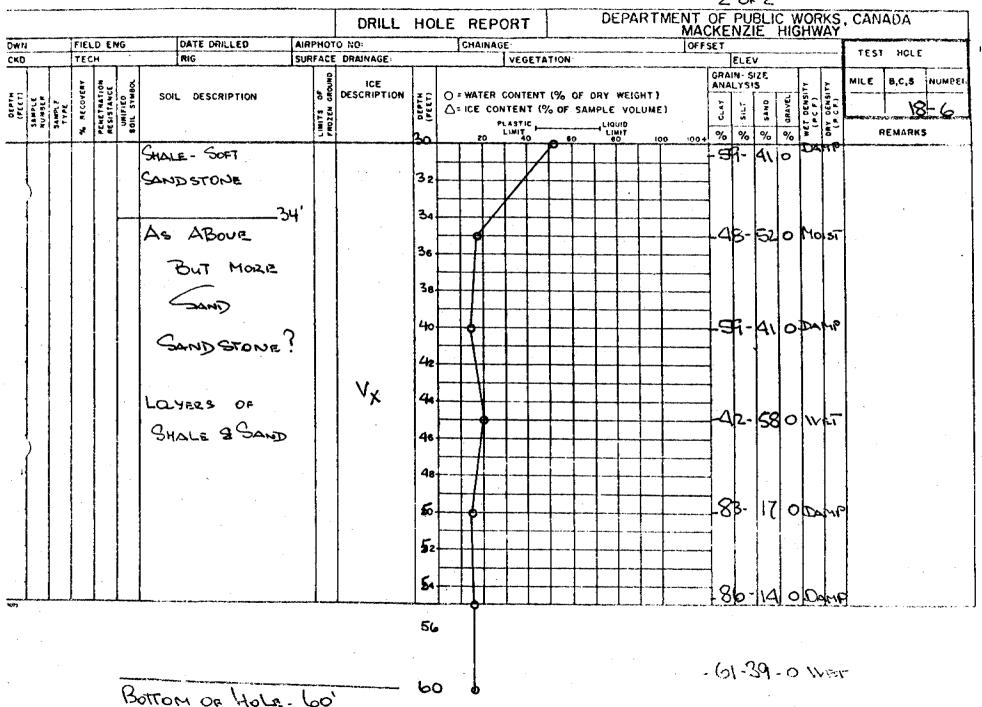
DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY DRILL HOLE REPORT INUVIK - TUK DATE DRILLED 316 AIRPHOTO NO: OFFSET CHAINAGE: TEST HOLE TECHPRONYCH RIG DIR SURFACE DRAINAGE: VEGETATION ELEV CXD GRAIN- SIZE MILE B.C.S NUMBER ANALYSIS WET DENSITY (FCF) DRY DENSITY (FCF) DESCRIPTION O = WATER CONTENT (% OF DRY WEIGHT) SOIL DESCRIPTION A = ICE CONTENT (% OF SAMPLE VOLUME) REMARKS % % % 100+ ady - Sandy 35-1600 74 SAND - SILTY CLAYEY 48-520 PROMINETER AA-1540 NOT 10 411-15210 Mart 12 14 50-50 0 Moles SANDSTONA SOFT 22-180 bolo 20 20 22

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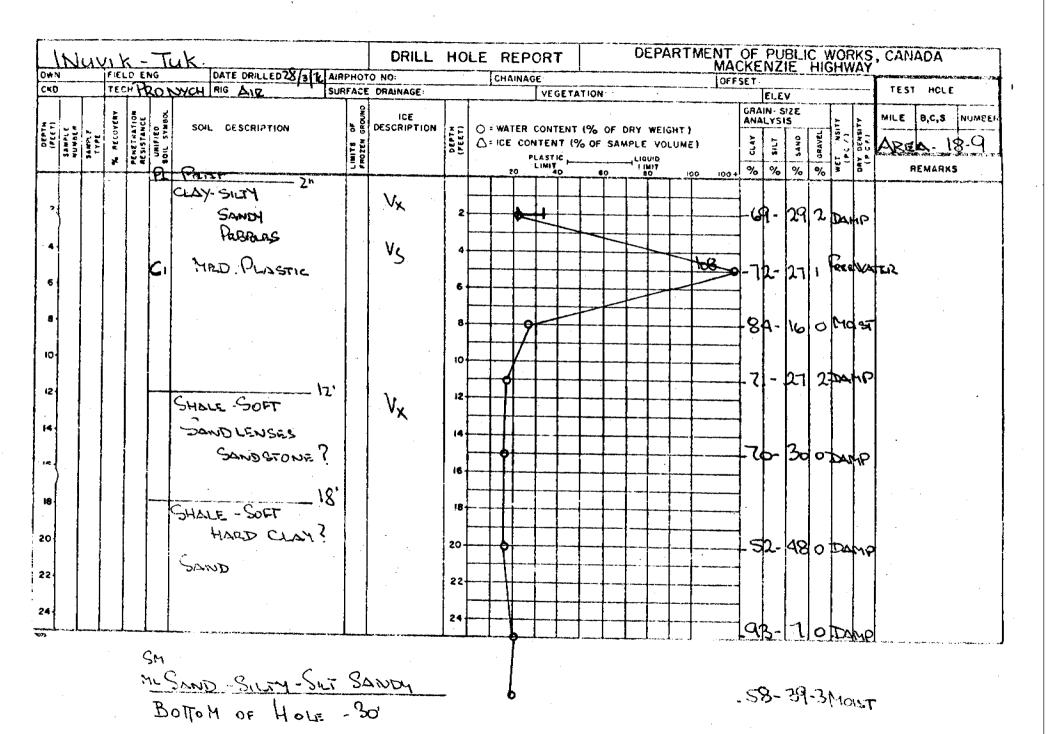
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DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY FIELD ENG DATE DRILLE TECHTRONYCH RIG PIR DRILL HOLE REPORT DATE DRILLED TATL AIRPHOTO NO: OWN CHAINAGE OFFSET CKD TEST HOLE SURFACE DRAINAGE VEGETATION ELEV GRAIN- SIZE MILE B,C,S NUMBER ANALYSIS WET DENSITY (P.C.F.) DRY DENSITY (P.C.F.) SOIL DESCRIPTION DESCRIPTION O = WATER CONTENT (% OF DRY WEIGHT) AFICE CONTENT (% OF SAMPLE VOLUME) % % % REMARKS PA PEAT CLAY - SILTY . 79-19/2/Vot SANDY ٧ر PEBBLES 76-22/2 FROMVATER 1CE 1CE 10 10 12 CLAY-SILTY SANDY PROBLES ٧s -78-12/1 Geographe SAND - SILTY 18 20 16-84 olver 22 1c-11 55 24 17-181 DWG--19.81-0 WET Bottom Or Hola - 30

DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY DRILL HOLE REPORT NUVIK - TUK DATE DRILLED 21 16 AIRPHOTO NO. CHAINAGE DWN OFFSET TEST HOLE TECH PROMYCH RIG AIR SURFACE DRAINAGE: CKD VEGETATION ELEV GRAIN- SIZE MILE 8,C,S NUMBER DESCRIPTION X (L) ANALYSIS O = WATER CONTENT (% OF DRY WEIGHT) SOIL DESCRIPTION △=ICE CONTENT (% OF SAMPLE VOLUME) % % % % LIXIT REMARKS 100+ CLAY-SILTY SANDY 2" -88- 11 1 WET CE 1CE CLAY - SILTY SANDY .88- 14 3 REELVATER Vs -84-16 of makes 12 SAND-SILTY 14 ·14-860 WAT BOTTOM OF HOLE -15' 16 18 20 20 22 22 24

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DEPARTMENT OF PUBLIC WORKS, CANADA DRILL HOLE REPORT MACKENZIE HIGHWAY INUVIK -TUK. DATE DRILLED 28 3his CHAINAGE OFFSET AIRPHOTO NO TEST HOLE TECHTRONYCH RIG AIR ELEV SURFACE DRAINAGE VEGETATION CKD GRAIN - SIZE MILE B.C.S NUMBER TOE DESCRIPTION (1734) O = WATER CONTENT (% OF DRY WEIGHT) SOIL DESCRIPTION ARRA - 18-11 A= ICE CONTENT (% OF SAMPLE VOLUME) REMARKS LIMIT 100+ CLAY-SILTY -77-22 1 SAT. Vς SANDY ici LOW & MED. 62.38 0 SAT PLASTIC 59-39 2 WET 1, -Vr 10 -713-1271 OPALP SAND-SILT AK-1541 ODAMO MIXTURE SM 60-400 Damp 20 22 22 24 49.51-0 DAMP Bottom OF Hole-30'

DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY DRILL HOLE REPORT INUVIK - TUK DATE DRILLED ILL AIRPHOTO NO: CHAINAGE OFFSET TEST HOLE TECH PRONYCH RIG AIR KD SURFACE DRAINAGE: VEGETATION ELEV GRAIN- SIZE MILE B.C.S INUMBER ANALYSIS WET DENSITY (P.C.F.) DRY DENSITY (P.C.F.) DESCRIPTION O = WATER CONTENT (% OF DRY WEIGHT) SOIL DESCRIPTION A: ICE CONTENT (% OF SAMPLE VOLUME) REMARKS % % % % 1004 CLAY-SILTY 71-230 MOST SANDY BA SAND - SILTI CLAY- SIJY 64-360 WAT SANDY LOW PLASTIC 791-12110 Damp (45-13210 Patro SHALE - SOFT SAND - SILTY 14 -78-220 Damp SOFT SONDSTONE? 69-29 2 Days 20 20 22 22 81-130 Damp

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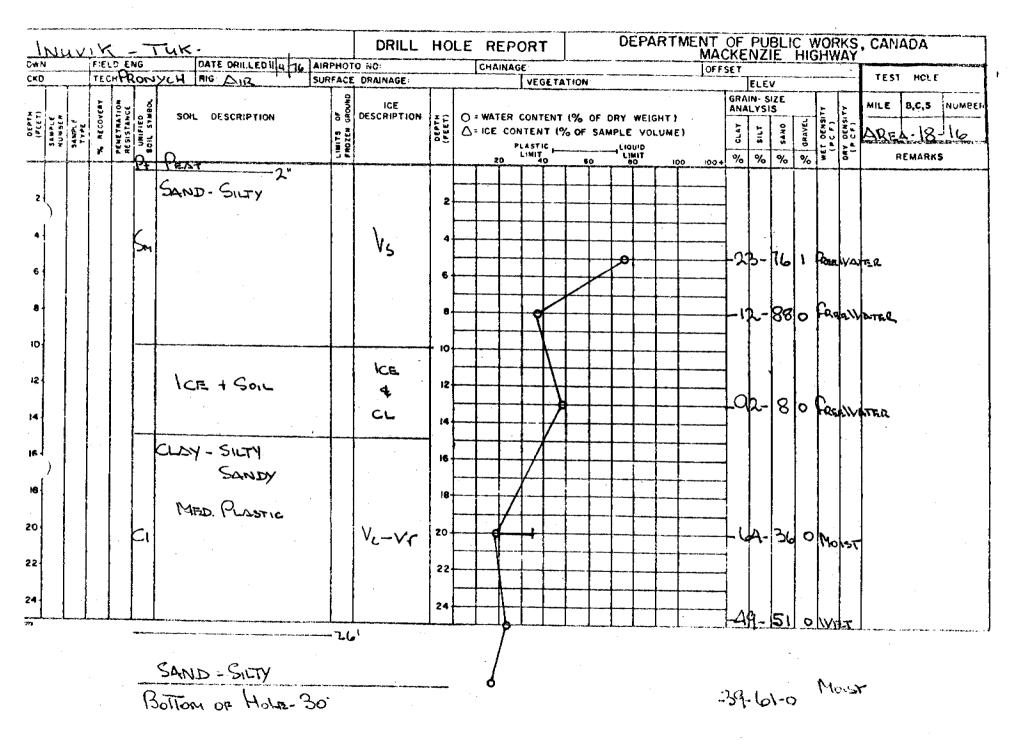
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OF 2 DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY DRILL HOLE REPORT INUVIK - TUK. DATE DRILLED 1147L AIRPHOTO NO: CHAINAGE: OFFSET TECH PROJUCH RIG AIR TEST HOLE CKD SURFACE DRAINAGE: VEGETATION ELEV GRAIN- SIZE ICE MILE 8,C,S NUMBER ANALYSIS DENSITY C F ) C ENSITY C F ) SOIL DESCRIPTION DESCRIPTION O = WATER CONTENT (% OF DRY WEIGHT) A: ICE CONTENT (% OF SAMPLE VOLUME) AREN- 18-% % % % REMARKS 100+ 69-13110 NATT CLAY - SILTY SANDY SA-11 0 Handwater PEBBLES
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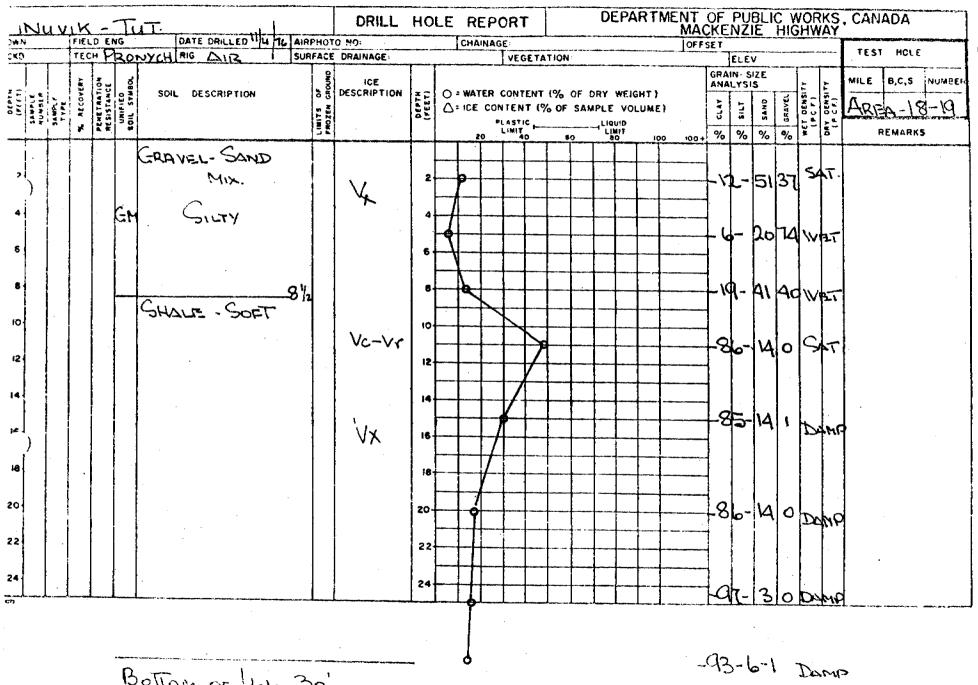


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BOTTOM OF HOLE. 30'

DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY DRILL HOLE REPORT MUVIK - TUK.

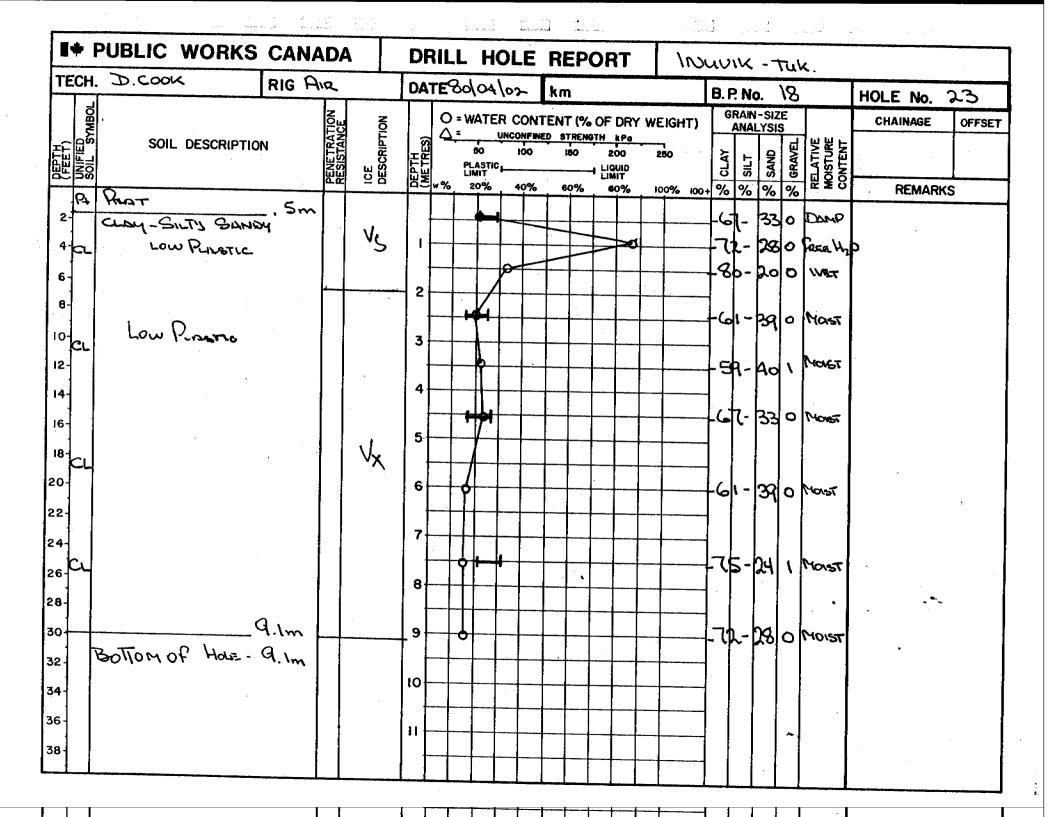
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DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY DRILL HOLE REPORT MN FIELD ENG DA DATE DRILLED " TIL AIRPHOTO NO CHAINAGE OFFSET TEST HOLE TECH PRONYCH RIG ALIZ CKD SURFACE DRAINAGE: VEGETATION ELEV GRAIN- SIZE ANALYSIS MILE B,C,S NUMBER ICE DESCRIPTION O = WATER CONTENT (% OF DRY WEIGHT) SOIL DESCRIPTION Mary 18-21 A= ICE CONTENT (% OF SAMPLE VOLUME) % REMARKS % % % 100+ CL CLAY SKITY SANDY 74-24 2 Removater SILT- SAWBY CLAYEY PREBBUES  $V_{\mathsf{S}}$ -717-23 0 has works SAND-SILT 49- 48 3 More MIXTURE 101 417-51 2 most - Poorey consociantes SAMOSTONE ? 50-150 olmbest 51-420 Marst 20 20 22 22 24 Moisi

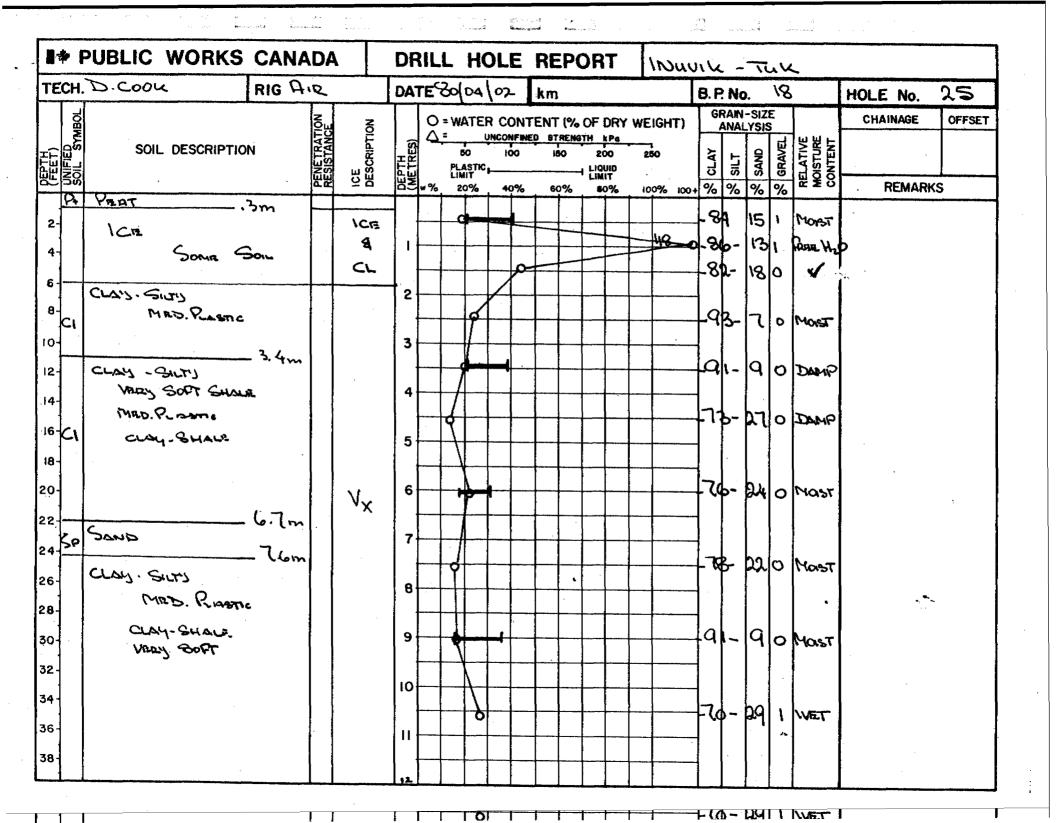
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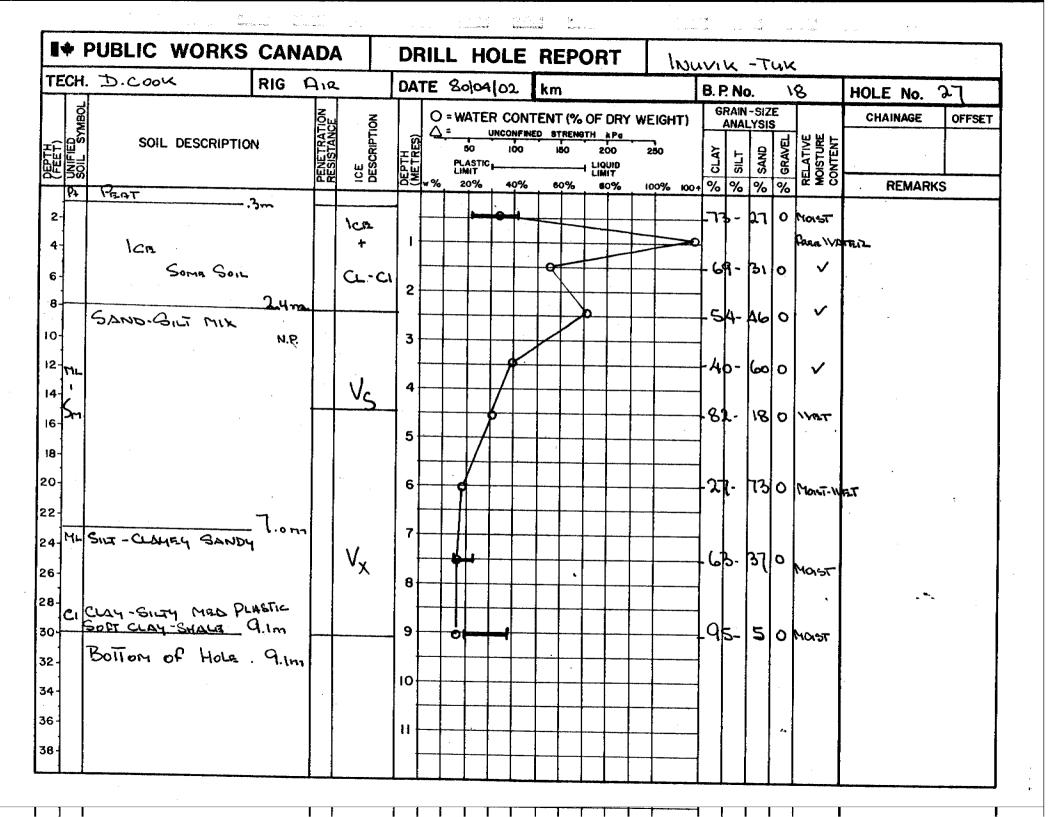


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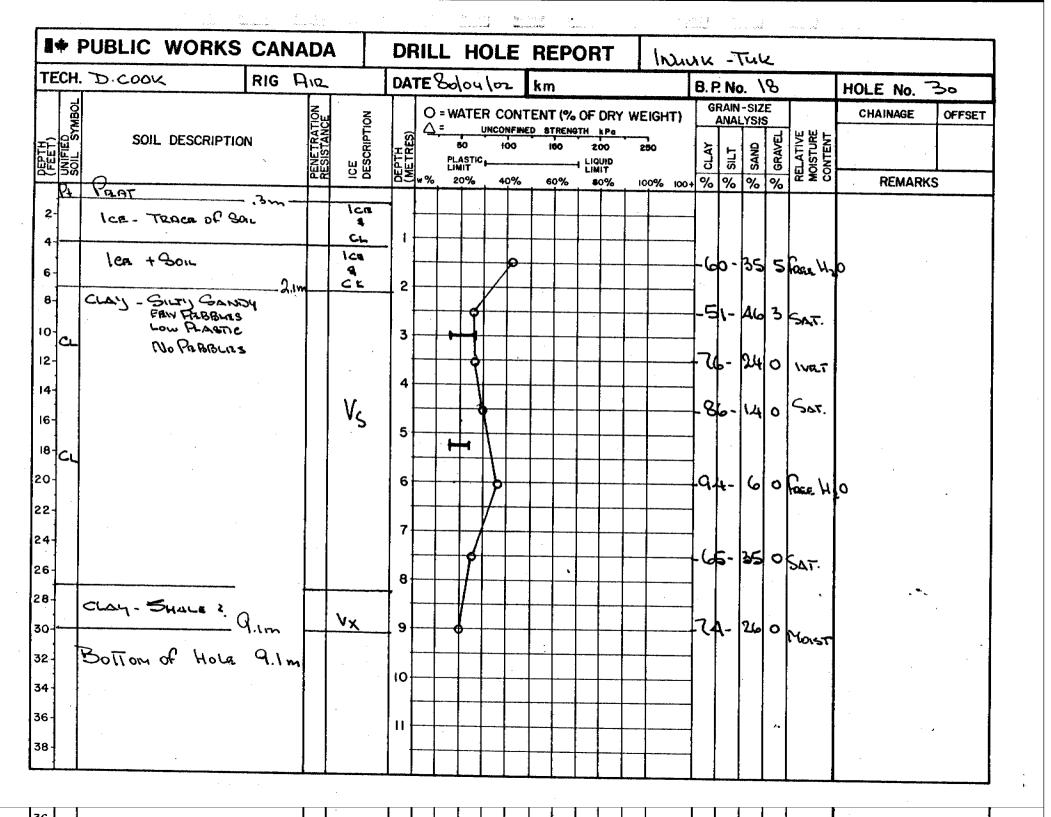
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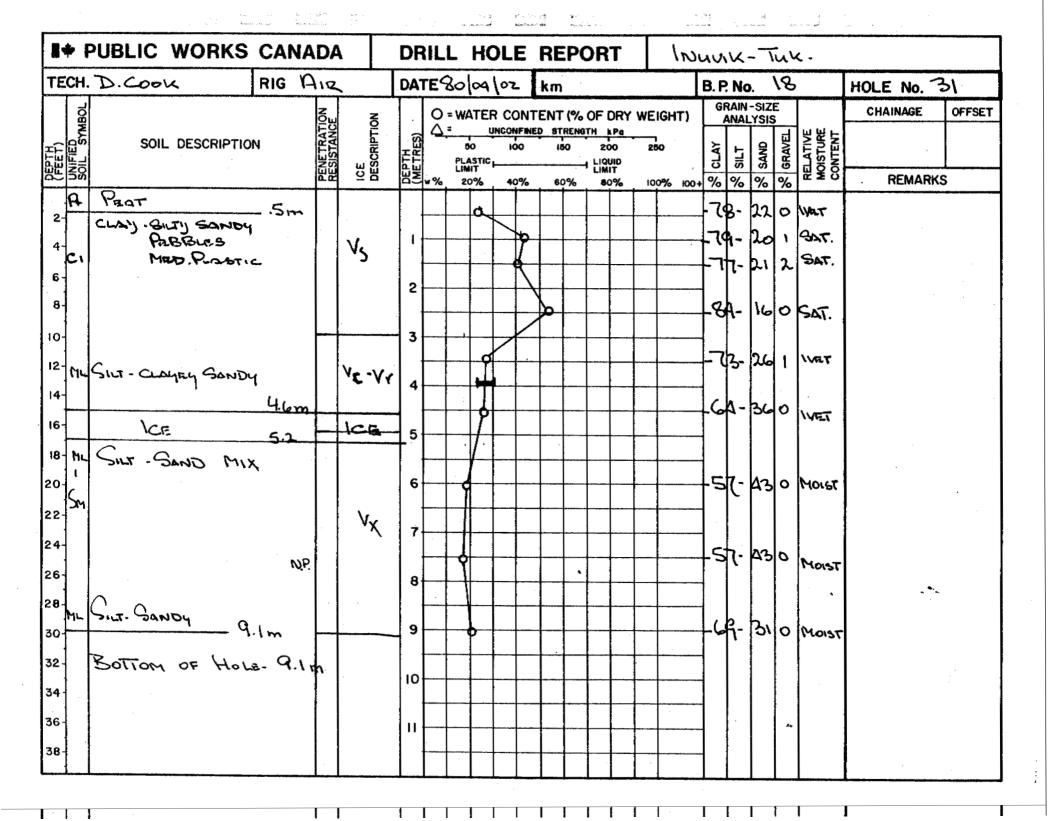
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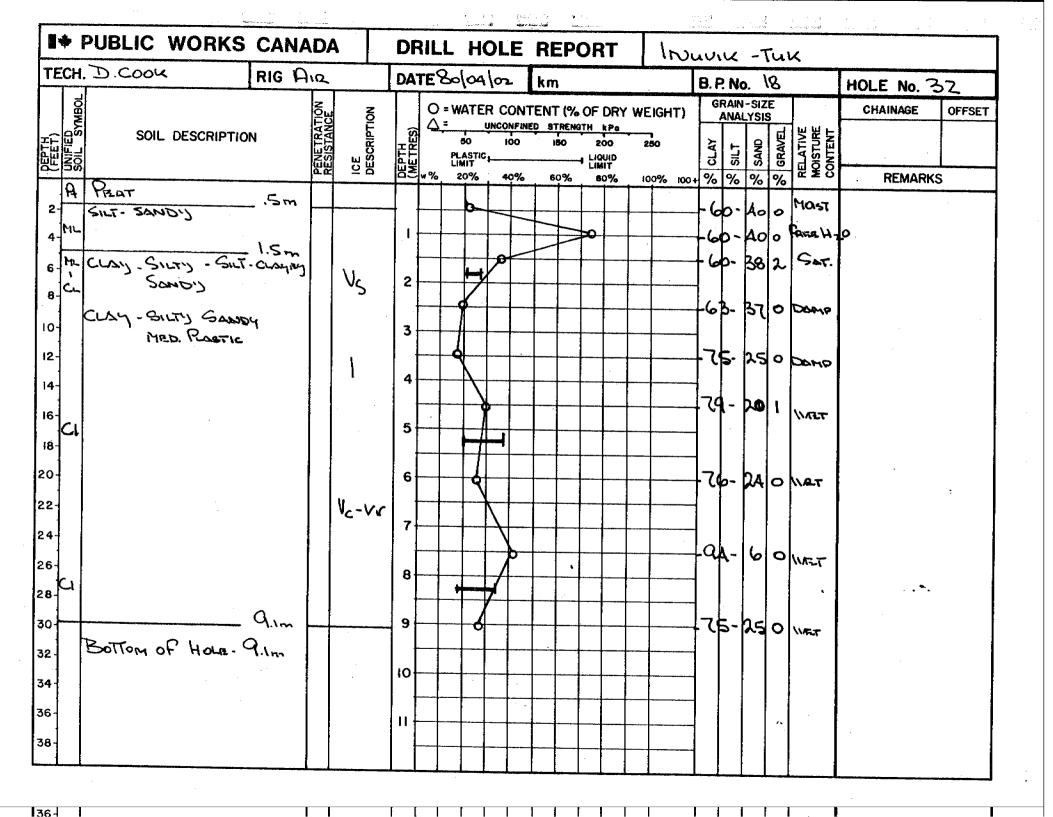


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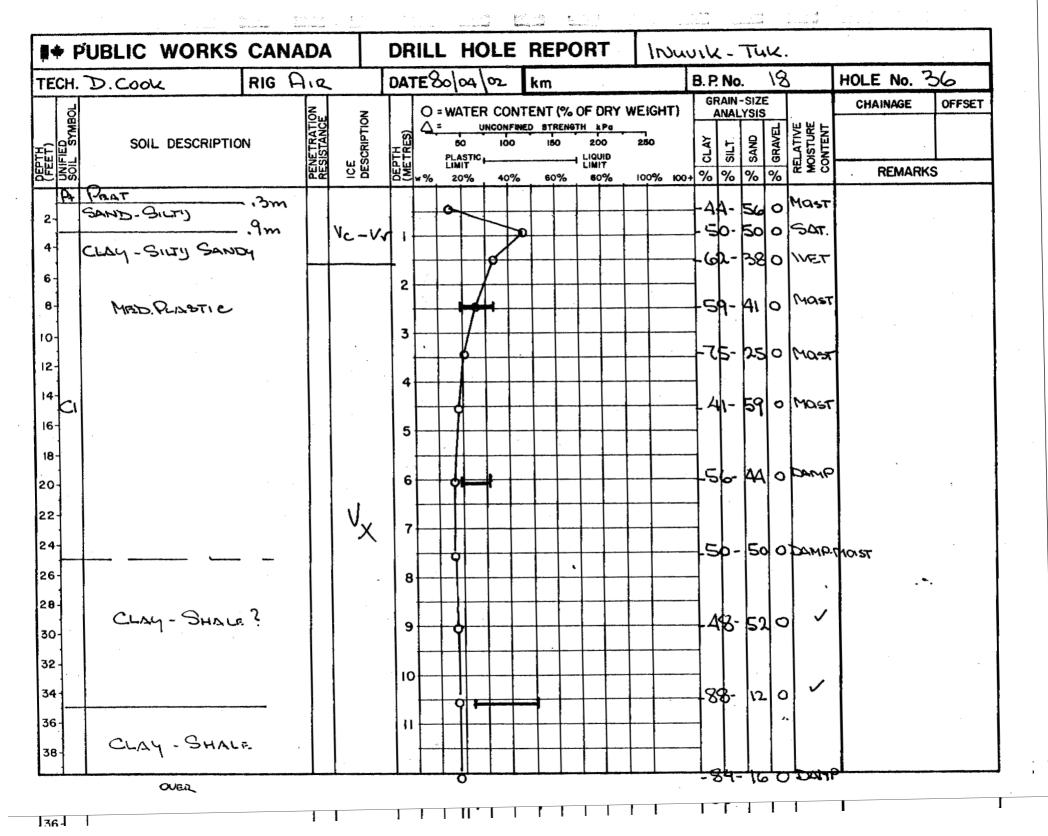




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TECH. D. COOK	RIG PIR	DATE 80/04/02 km	UIK - TUK. B.P.No. 18	HOLE No. 33
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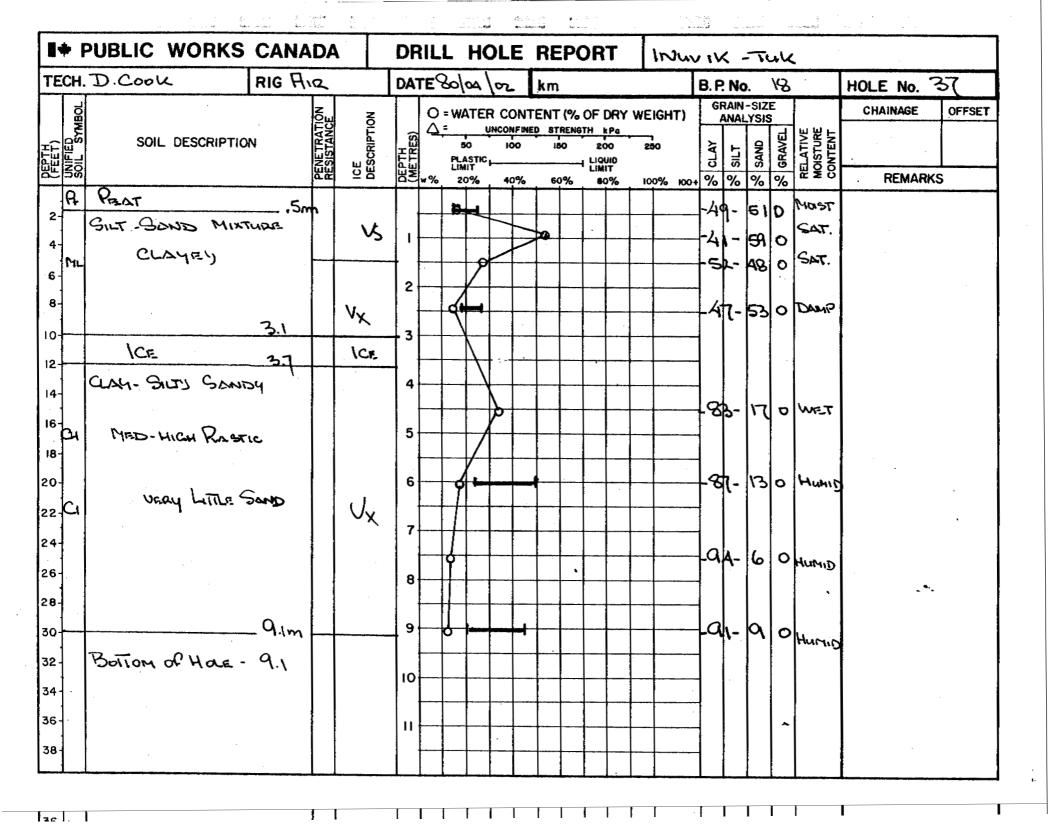
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\*\* PUBLIC WORKS CANADA DRILL HOLE REPORT NUVIK - TUK DATE 80/04/02 km TECH. D.Cook RIG AIR HOLE No. 35 B. P. No. 18 GRAIN-SIZE ANALYSIS O = WATER CONTENT (% OF DRY WEIGHT) CHAINAGE OFFSET UNCONFINED STRENGTH kPs SOIL DESCRIPTION 100 PLASTIC -REMARKS A PROT 2 Sm Sand. Sini Vς GRAVEL - GANDY 6 GP NO SAMPIRE TAKES 8 ---- 27m 104 126 14-16-BOTTOM OF HOLE. 4.6m 18 20-6 22-24-26-28-9 30-32 10 34-36 11 38

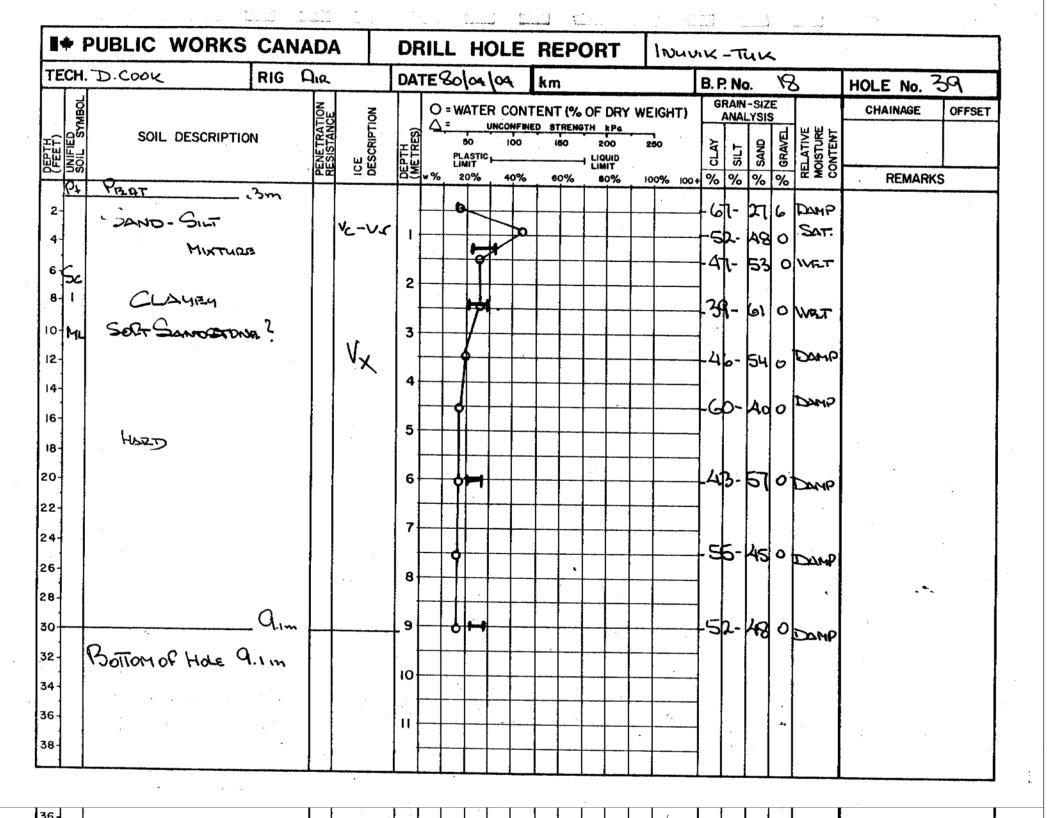


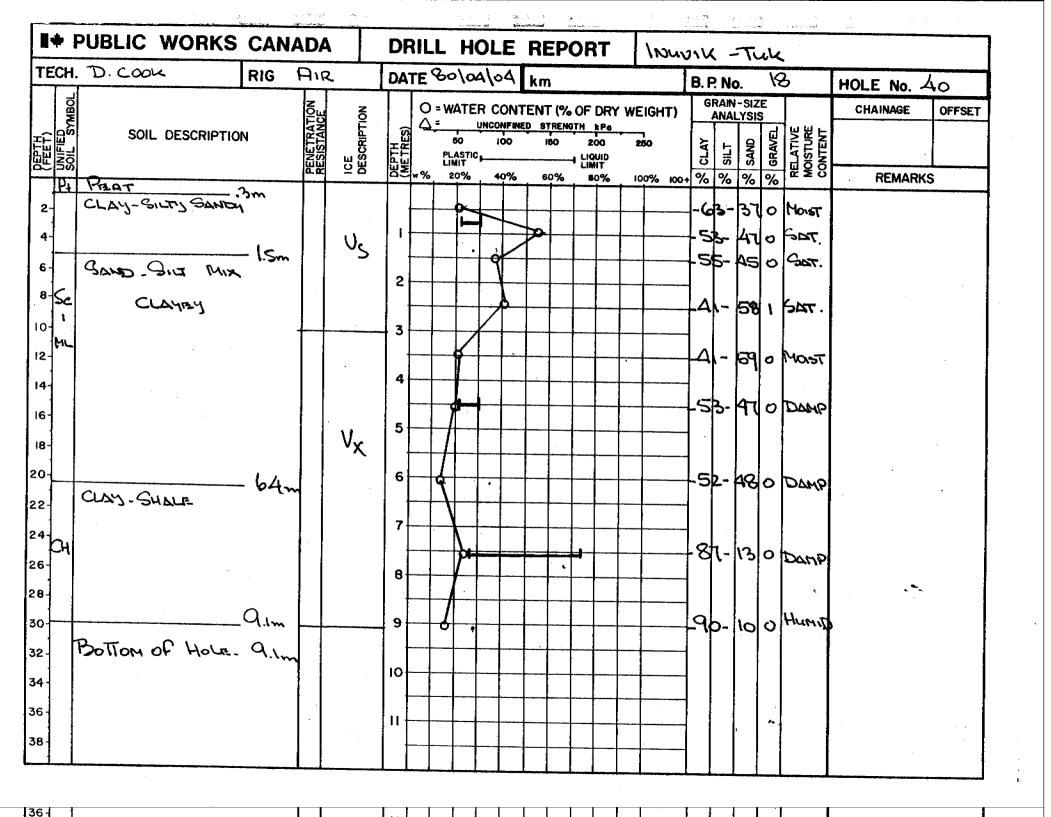
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-	TECH. D. COOK		RIG Flia			DATE 80/04/02 km									B.P. No. \8					HOLE No. 36			
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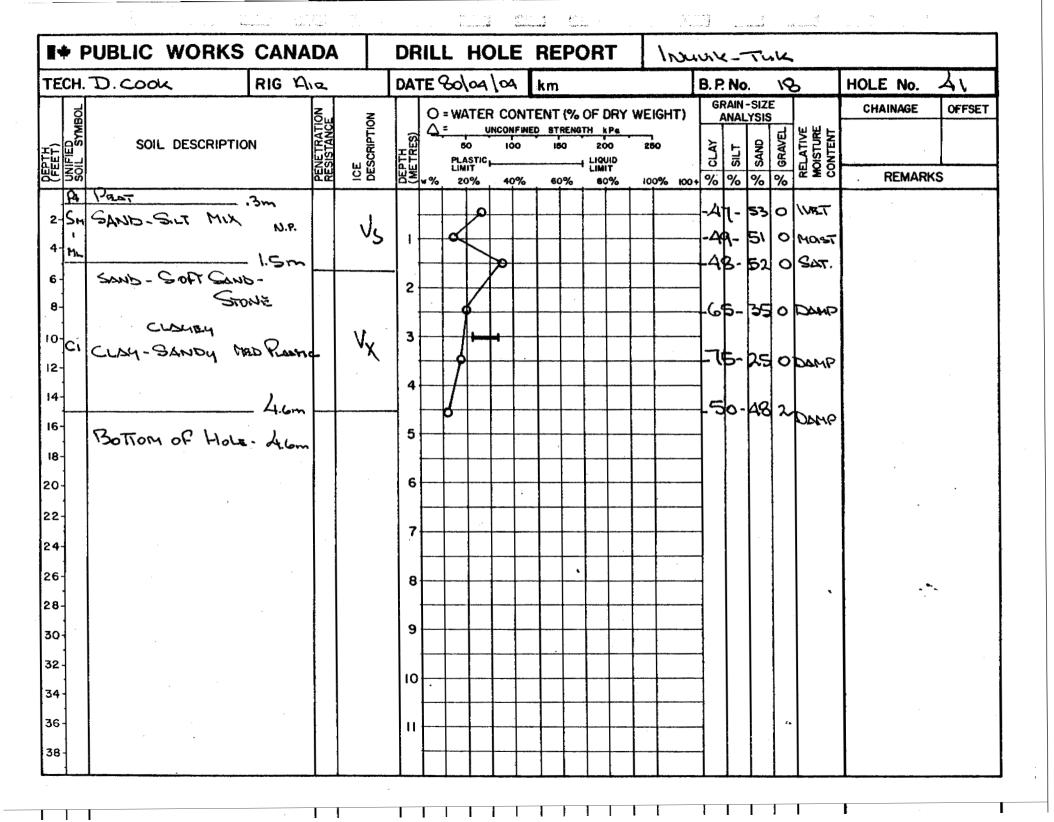
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**■** PUBLIC WORKS CANADA DRILL HOLE REPORT NUVIK - TUK TECH. D. COOK RIG AIR DATE 80/04/02 B. P. No. 18 HOLE No. GRAIN-SIZE O = WATER CONTENT (% OF DRY WEIGHT) CHAINAGE OFFSET ANALYSIS UNCONFINED STRENGTH kPg SOIL DESCRIPTION 100 SILT CLAY 100% 100+% % % REMARKS PROT CLAY-GILTY BANDY 190. Roone 1,5 m 56-44 0 Mast 6 & SAND - SILT MIXTURE 8- CLAYRY SA-AGO MOST 10-43-15710 Mast 12-14-39- 61 0 Mar 16-BOTTOM OF HOLE. 4:6m 18 20-6 22-24-26 28-30-32 -10 34 -36 -38 -







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#### SEARCH AREAS #19 and #19A

Landform and Location: Glacio-fluvial complex on the southwest shore

of Eskimo Lakes, 32 miles north of Inuvik - near

Mile 1004 to 1006 Mackenzie Highway.

Material:

Sandy gravel.

Volume:

Unlimited but in many small mounds and hillcocks.

Stripping:

Variable from zero to six or eight feet. Most features contain massive clear ice at some depth.

Conclusion:

Development of Area #19A adjacent to the alignment at Mile 1006 could be considered. Pit development costs would be high because of five to eight feet of surface stripping plus massive ice layers at depth, however, pit would be strategically located and would have substantially reduced haul costs

over alternate sources.

#### Topography

This source is part of a glacio-fluvial complex located along the south-west shore of Eskimo Lakes. The major deposit Area (#19) is along the lakeshore and is roughly two miles long and some 3,000 feet in width. This area is located one half to one mile from the highway right-of-way. A smaller deposit Area (#19A) is situated on, and adjacent to, the right-of-way near Mile 1006.

The ground surface throughout the complex is very irregular with many hillcocks, lakes and small gullies draining to Eskimo Lake from the smaller inland lakes. Some areas show a polygonal ground pattern.

Area #19 was test drilled previously by Ripley, Klohn and Leonoff, Consultants and four test holes from that investigation have been included herein.

#### Materials and Quantities

#### A - Area #19

This source is very erratic. Test hole #19-1 penetrated roughly 30 feet of sandy gravel with no massive ice inclusions, whereas hole #19-2, within 300 feet, encountered two massive ice layers totalling nine feet in thickness in 17 feet of drilling. Most test holes in this area encountered some clear ice with three holes, #19-6, #19-7 and #19-10, penetrating in excess of 20 feet of ice in a 30 foot hole. Many of the small hillcocks contain gravel, however, as a general rule, it appears that where there are small exposed gravel faces on the surface, the deposit is shallow and underlain by ice.

Where gravel does exist it is practically free of ice with thawed moisture contents near 5%.

The volume of recoverable material here is impossible to estimate accurately but it is probably in excess of 1,000,000 cu. yds. consisting of many small areas each with volumes in the order of 50,000 to 100,000 cu. yds. The drilling to date has been sufficient only to verify that there is usable material and, because of the variability in deposits, extensive drilling patterns will be required to select the most favorable features for development. It is expected that most features will contain some massive ice layers which will affect the method and extent of development. This area is probably not a viable source of embankment borrow because of the small volumes in any one feature and the pit development and haul costs. However there is good quality gravel here which may have use as surfacing material, and which could be developed by annual stripping and stockpiling of thawed material from the many small features.

#### B - Area #19A

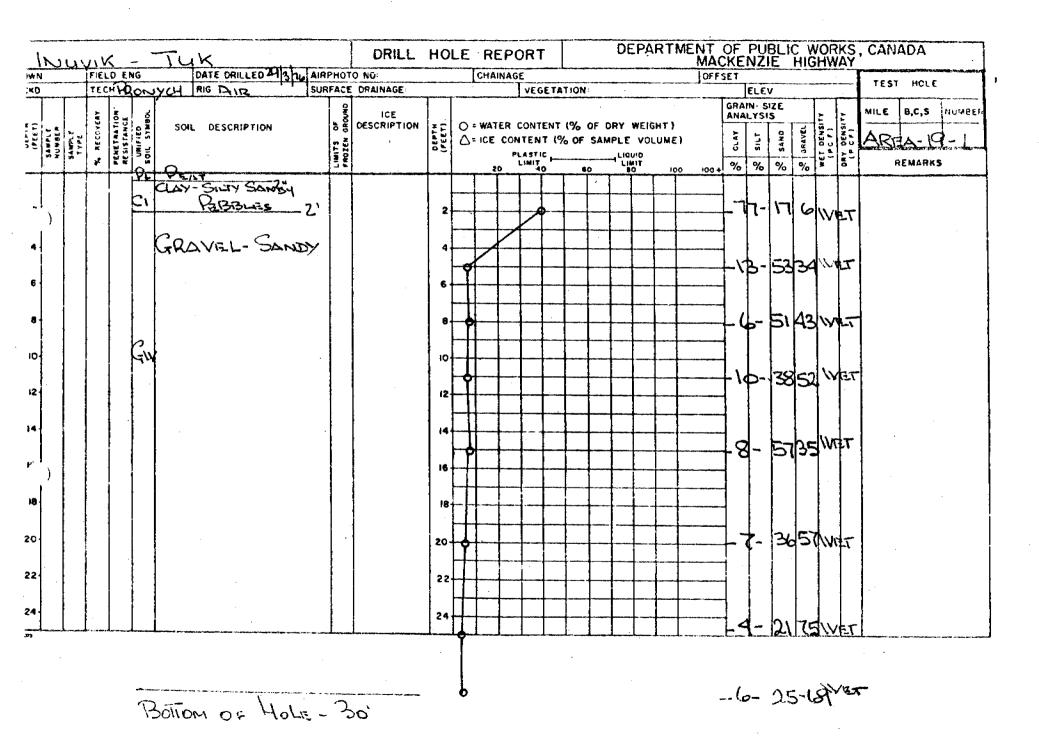
This deposit straddles the alignment at Mile 1006 and like Area #19 is very erratic. There are clear ice lenses randomly throughout the sandy gravel, however this feature is considered to be viable embankment borrow source especially if staged construction is utilized. The portion of the feature west of the alignment (test holes #19-5 to #19-9) is recommended for development. Stripping here to the gravel will vary between probably

five to eight feet and some massive ice lenses will have to be removed within the deposit at depth. The gravel itself is at a relatively low moisture content (approximately 5%). It is estimated that at least 500,000 cu. yds. of material is available here, however, a detailed drilling pattern would be required to define the preferred pit area. Excavation of the frozen gravel will be difficult as the feature is on the edge of a relatively large lake which may impose some environmental restrictions on pit development, i.e., extraction by thawing and stripping may not be possible.



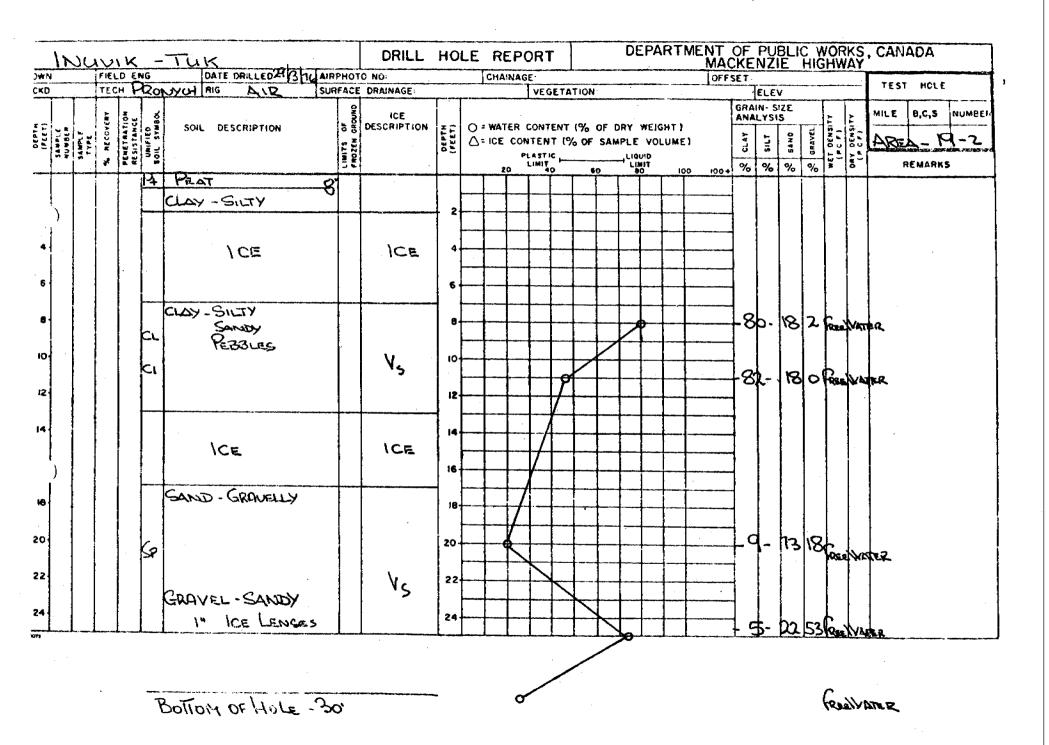


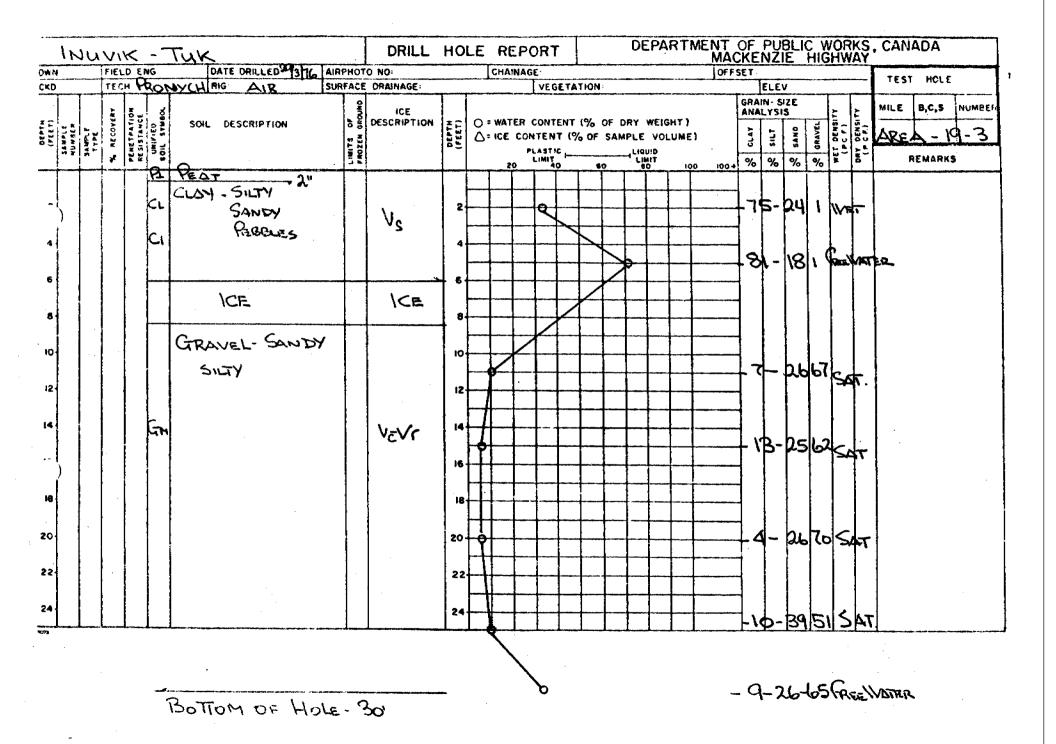




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DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY DRILL HOLE REPORT Musik - Tak. DATE DRILLED 13 16 AIRPHOTO NO FIELD ENG CHAINAGE OFFSET TEST HOLE TECH PRONUCH RIG AIR SURFACE DRAINAGE: VEGETATION CKD ELEV GRAIN- SIZE MILE B,C,S NUMBER WET DENSITY (PCF) ANALYSIS DESCRIPTION O = WATER CONTENT (% OF DRY WEIGHT) SOIL DESCRIPTION AREA- M-4 A=ICE CONTENT (% OF SAMPLE VOLUME) LIMITS REMARKS % % % % 100+ CLAY - SILTY SONOY -78- 21 1 Response REBBURG ٧s 4-13365At.  $e^{m}$ GRAVEL - SOND - SILT 127/54. MIX Sm 104 1ce ICE 121 12 14 28/67/Not GRAVEL - SANDY 5- $V_{X}$ GIV 16 20 20. ICE ICE 22 22-24 24

BOTTOM OF HOLE. 30'

DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY DRILL HOLE REPORT INUVIK - TUK DATE DRILLEDAY 3 TE AIRPHOTO NO: FIELD ENG CHAINAGE OFFSET TECHPRONYCH RIG AIR TEST HOLE SURFACE DRAINAGE: CKD VEGETATION ELEV GRAIN- SIZE B.C.S NUMBER ICE DESCRIPTION MILE ANALYSIS O = WATER CONTENT (% OF DRY WEIGHT) SOIL DESCRIPTION LIMITS FROZEN △= ICE CONTENT (% OF SAMPLE VOLUME) (%) % % % REMARKS 100 100+ 2 CE CE CLAY- SILTY 82- 18 0 Pass Vales Samon 6 GRAVEL - SANDY \$- 15/80 SAT. 10 2- 1781 WET Gw 12 14 3- 2374 SAT! 16 18 8- 47 45 SAT. 20 20 22 24 1877

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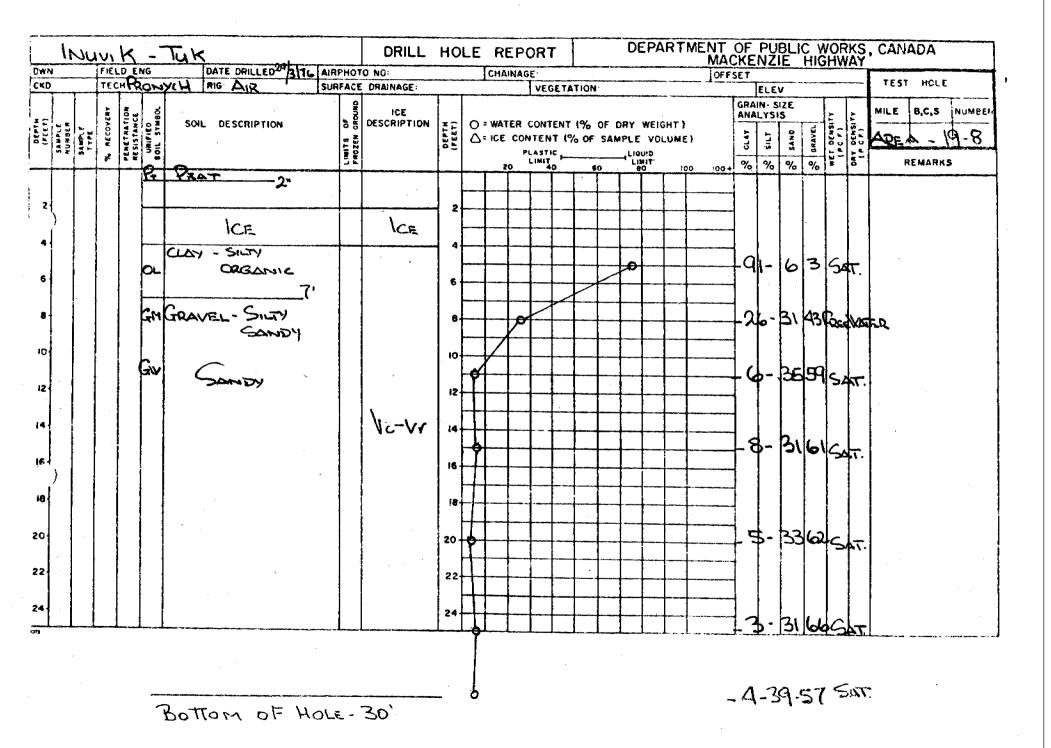
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BOTTOM OF HOLE - 30'

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Bottom of Hole. 30'

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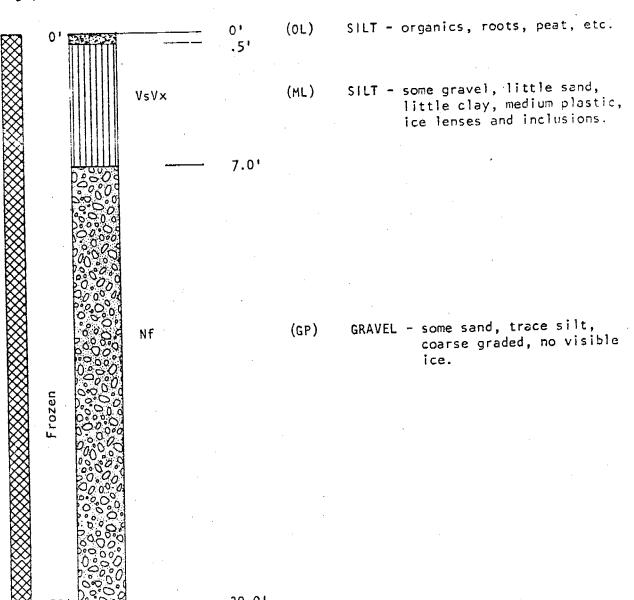
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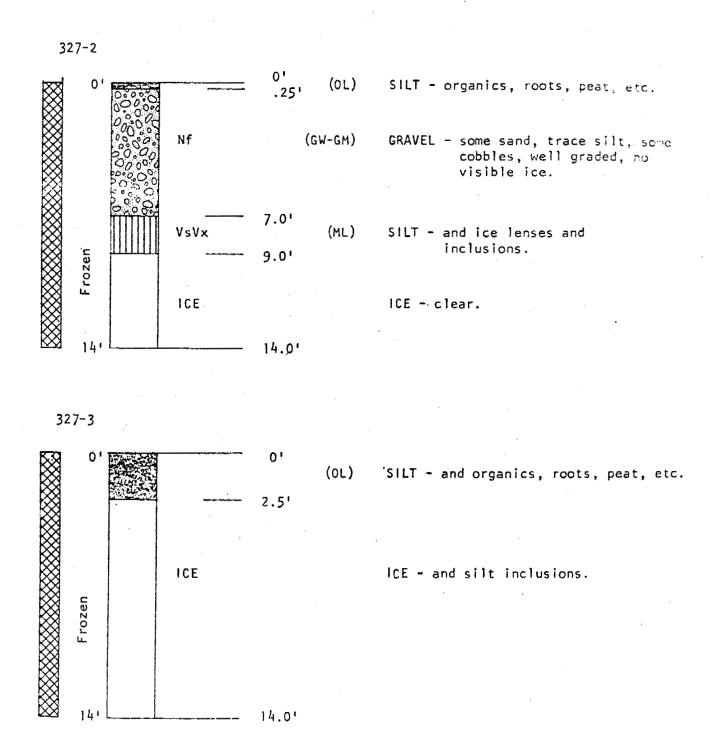
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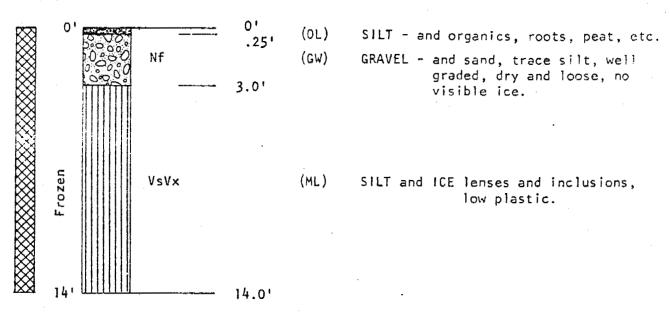


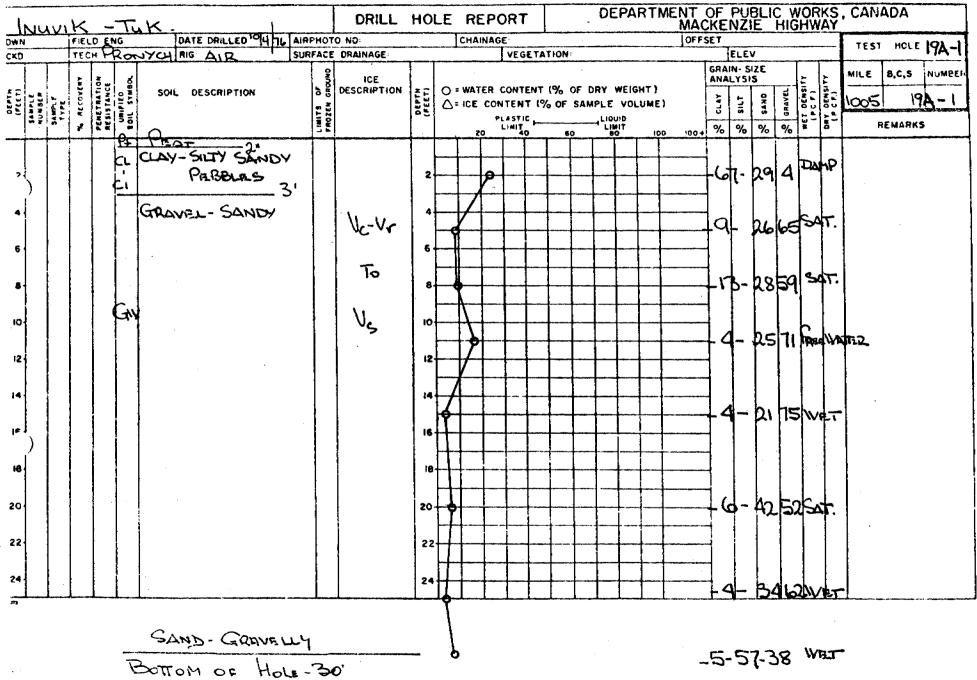
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### TEST HOLE LOGS SOURCE No. 327







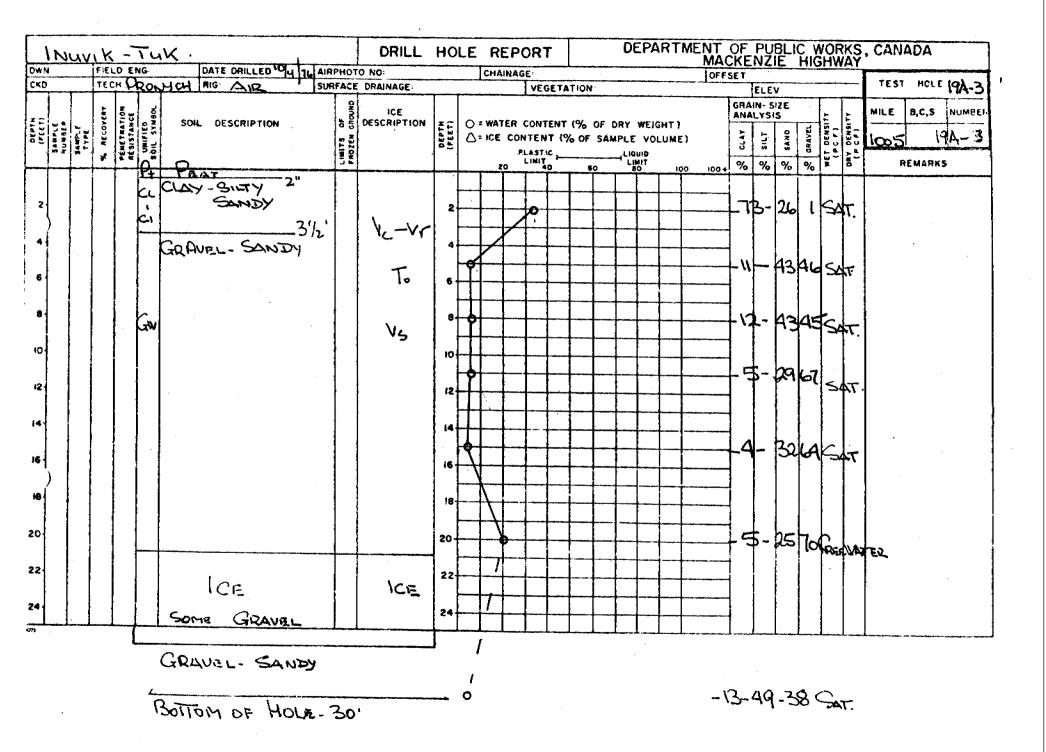
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J-GRACE J-GRACE J-GRACE (T-J-G	SOIL DESCRIPTION SOIL STREET	OMOGE ICE DESCRIPTION	DEPTH (FEET)	O = WATER CONTENT (% OF DRY WEIGHT A = ICE CONTENT (% OF SAMPLE VOLUM PLASTIC LIGHT	GRAIN-SIZE ANALYSIS	<del>                                     </del>
	PEAT 2" CL CLAY-GRAVELLY SILTY SANDY	٧ς	2		S8-19 23 SAT.	
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DWN	FIELD ENG DATE DRILLED TO HE AIRPHOT		CHAINAGE:	OFFSET	TEST HOLE 194-5
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BOTTOM OF HOLE - 26'

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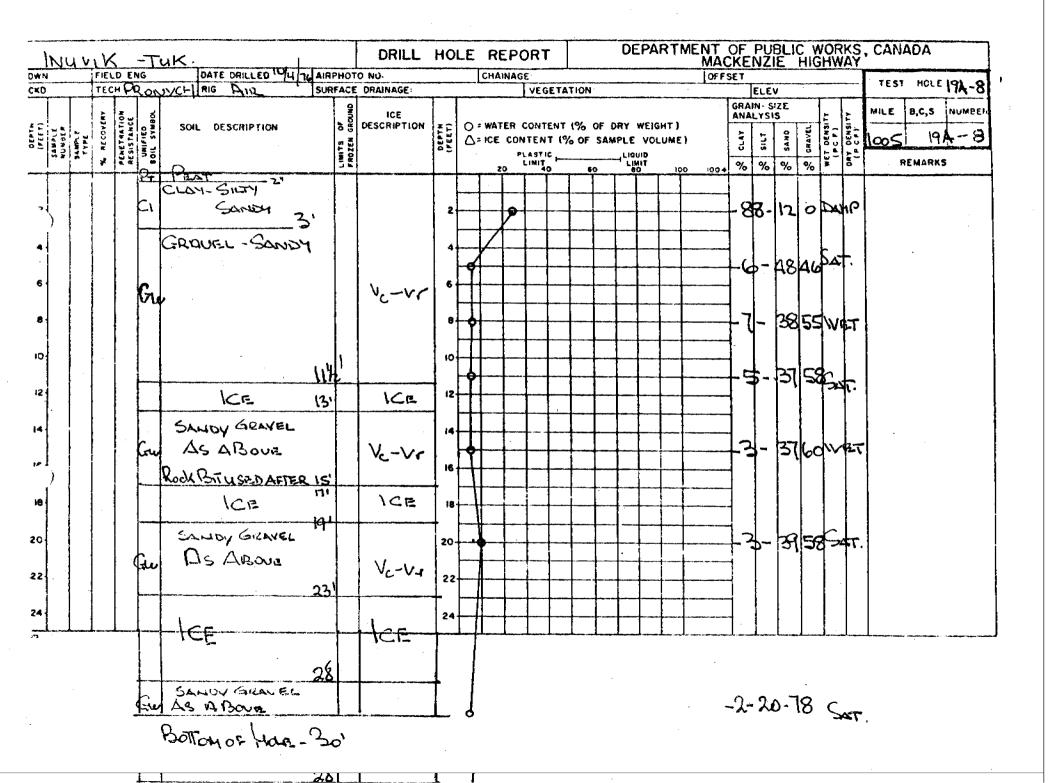
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DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY DRILL HOLE REPORT MUVIK - TUK.

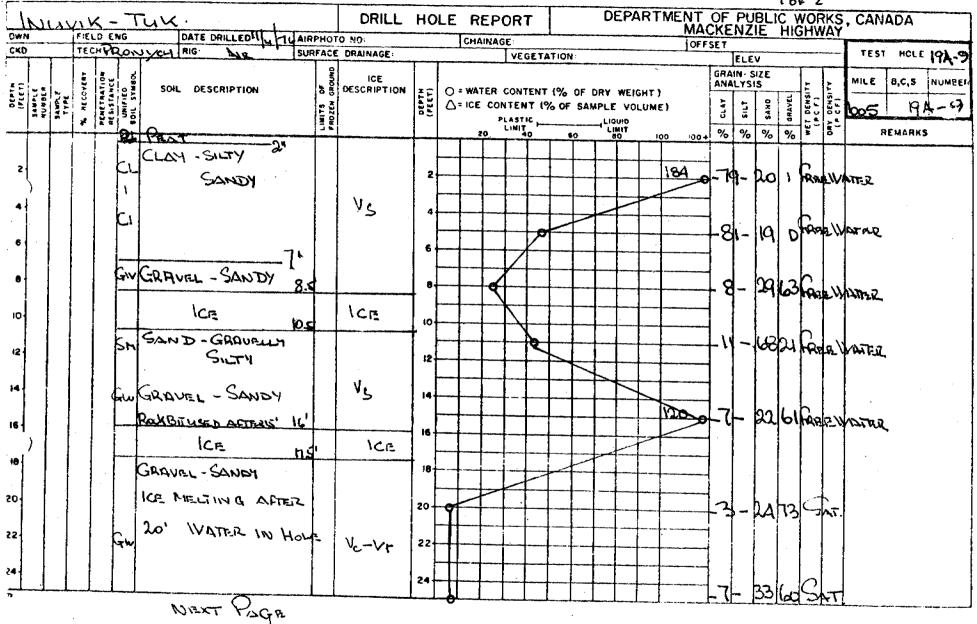
IN IFIELD ENG DATE DRILLED 14/16 AIRPHOTO NO CHAINAGE OFFSET TEST HOLE 194-7 TECHPANNYCH RIG. AIR SURFACE DRAINAGE: VEGETATION ELEV ;KD GRAIN- SIZE MILE B.C.S NUMBER OF GRAVEL WET DENSITY (F.C.F.) ORY DENSITY (P.C.F.) ANALYSIS DESCRIPTION O = WATER CONTENT (% OF DRY WEIGHT) SOIL DESCRIPTION 1005 19A-7 A=ICE CONTENT (% OF SAMPLE VOLUME) 100+ % % % REMARKS PT PEAT CLAY - SILTY 82-180 PAMP SANDY -717-23054 GRAVEL - SONDY 8-13/53/547 10 Vc-Vr 14 GW ROCK BIT USED
AFTER 15' 3-45/52/54T 20 20-22 24

SM SAND-SHLTY GRAVELLY
BOTTOM OF HOLE - 30'

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# Hans Creek Gravel Source

This source is along Hans Creek near Mile 1009 of the Mackenzie Highway, and has been extensively test-drilled by Gulf Oil Canada Limited (Report entitled "granular Materials Inventory - Parsons Lake, N.W.T." - October 1974 by Klohn Leonoff Consultants Ltd.). Volumes of sandy gravel totalling in the order of at least 2,000,000 cu. yds. have been estimated here, much of which is immediately adjacent to the highway alignment. The above report is available within the Highways Library, Western Region. No further drilling was carried out at this source by Public Works.

# SEARCH AREAS #20, #20A, #21, #22, #23E and #23F

Landform and Location: Various small features near the alignment between

Mile 1012 and Mile 1016, which show some surface evidence of glacio-fluvial deposits over either

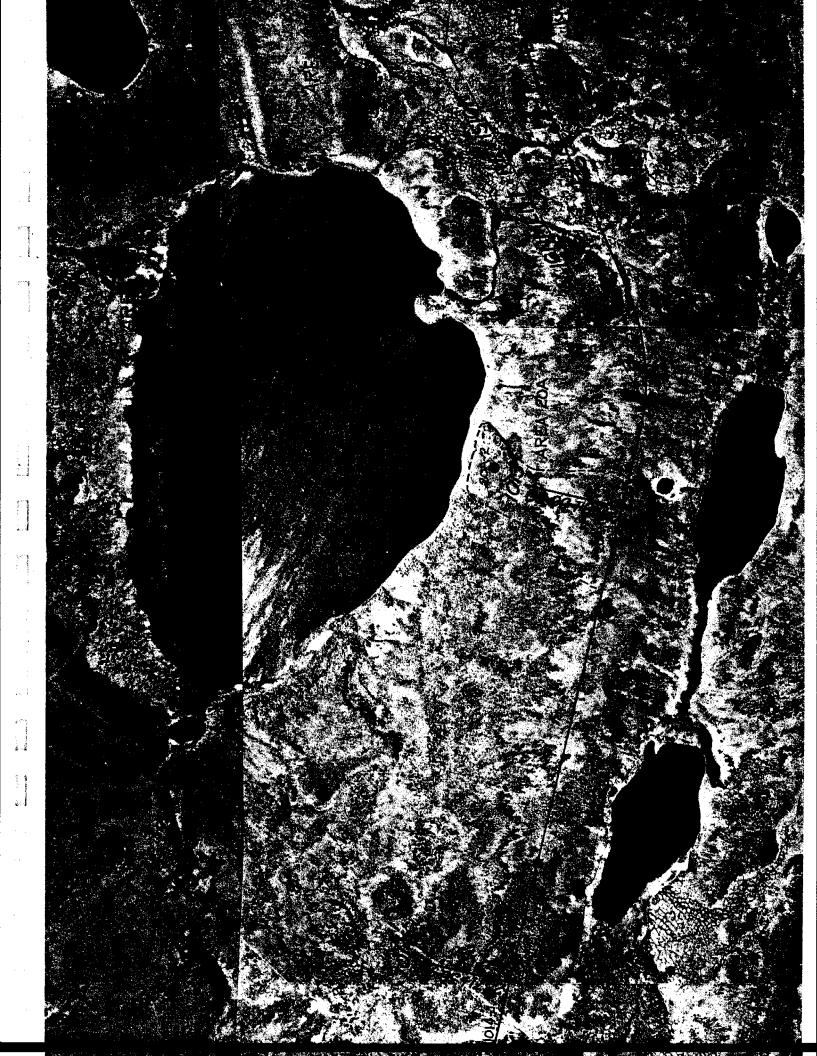
glacial till or lacustrine sediments.

Material: Minor sand and gravel with much excess ice.

Volume: Very limited.

Conclusion: All areas are unsuitable for embankment borrow.







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	SAND-SILTY SM PERBLES	1/2	20-22-24-3-3-3-3-3-3-3-3-3-3-3-3-3-3-3-3-3	-42-52 6 SAT.

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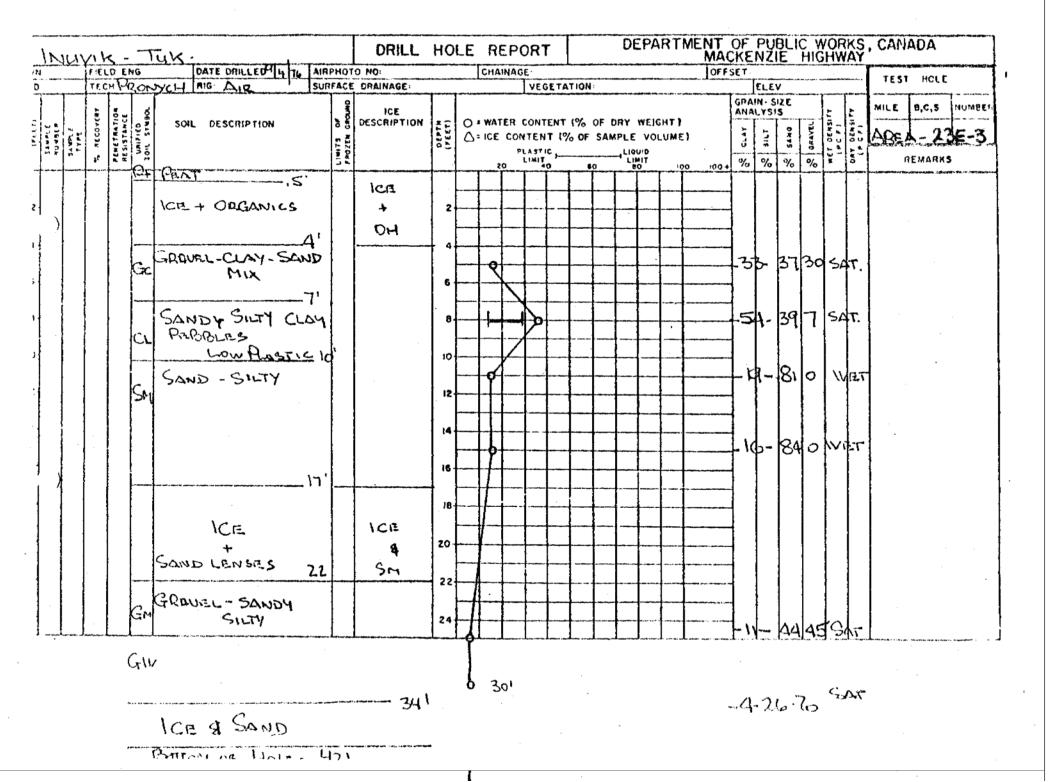
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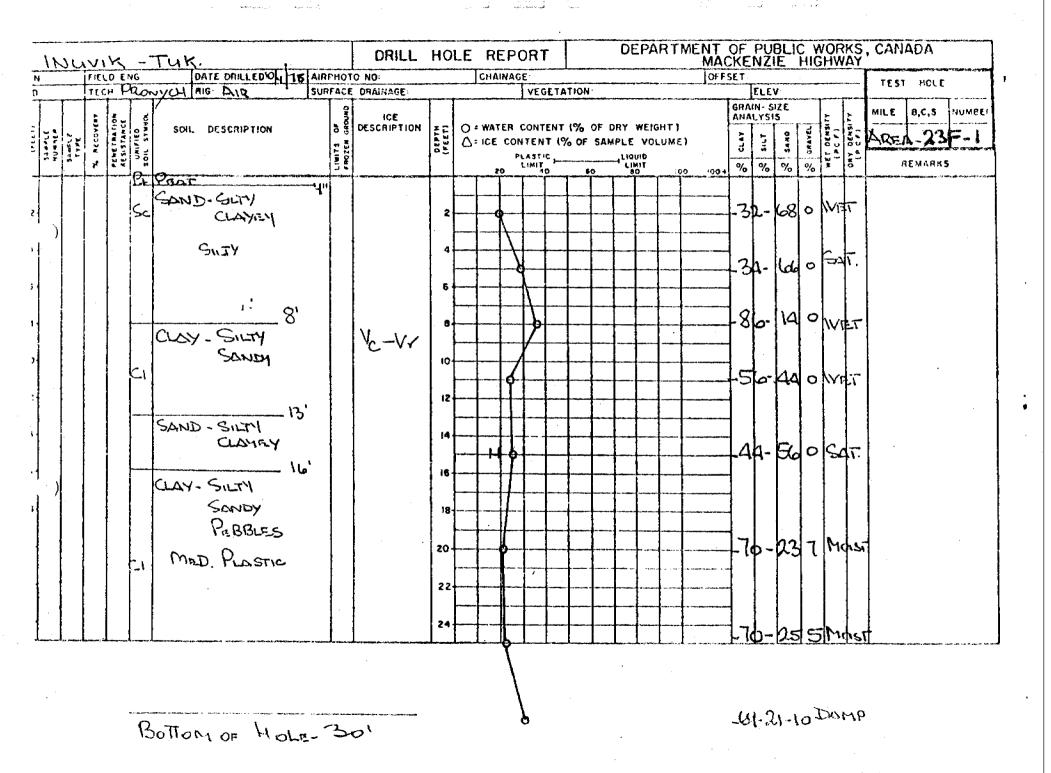
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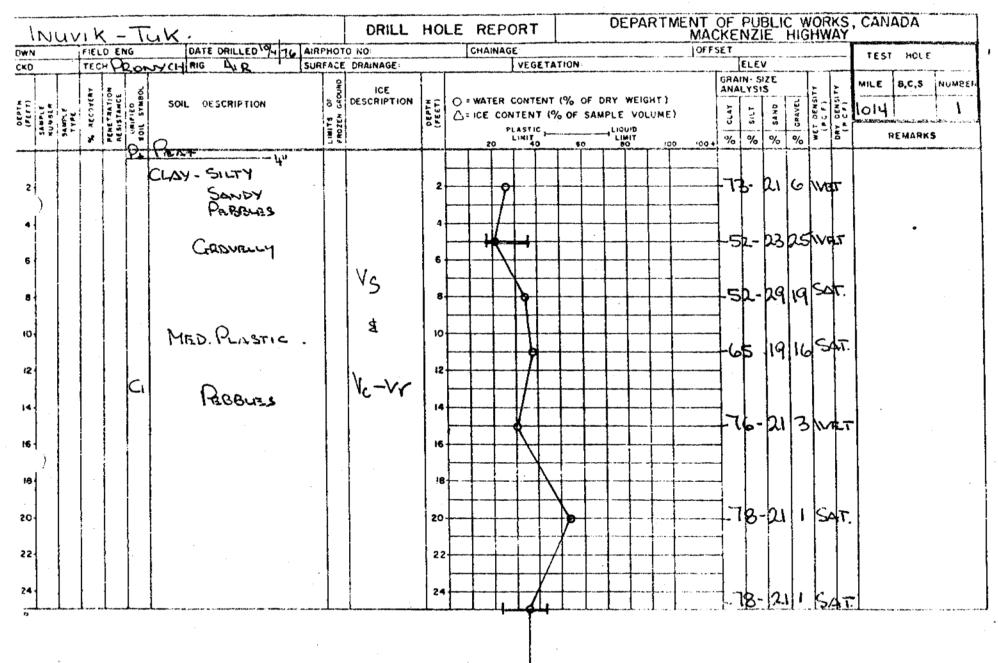
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TECH ROCKYCH RIS DIR SUMFACE DRAINAGE:  VECTATION:  SOIL DESCRIPTION  STORY SO	Nuvik - Tuk.	DRILL HO	OLE REPORT DEPART	TMENT OF PUBLIC WORKS MACKENZIE HIGHWAY	, CANADA
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Bottom of Hole. 30'







Bottom or Holz - 30'

80-16-4 WEST

PARSON CREEK SOUTH E DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY SOUTH BANK DRILL HOLE REPORT NUVIK - TUK. OFFSET CHAINAGE DATE DRILLED 14 16 AIRPHOTO NO: TEST HOLE FLEV VEGETATION SURFACE DRAINAGE: TECH PRONYCH RIG. DIR CKD GRAIN- SIZE MILE B,C,S INUMBER MILE MILE ANALYSIS % RECOVERY PENETRATION RESISTANCE UNIFIED SOIL SYMBOL O = WATER CONTENT (% OF DRY WEIGHT) DESCRIPTION SOIL DESCRIPTION A = ICE CONTENT (% OF SAMPLE VOLUME) REMARKS % 100+ % % % CLAY-SILTY SANDY 74-1260 backson2 ORGANIC SAND-SITY -18- 820 Carlings CLAY - SILTY -95-50 Man WALTER MED. RASTIC 10 10 110 017-13 0 HORNINGTER 14 96-1410 NAT Vc-Vr 89- 11 0 MoleT 20 20 22 24 24 20 WET TAN 0.0. COL

BOTTOM OF HOLE-30'

#### SEARCH AREAS #23, #23A, #23B, #23C, #23D and #24B

Landform and Location: A large number of kames on an outwash plain

located roughly 26 miles south of Tuktoyaktuk

and west of Mile 1025 on the Mackenzie Highway.

Material: Sand and gravel-trace silt.

Volume: Probably in excess of 500,000 cu. yds. but

randomly located in small features.

Conclusion: Not recommended for development due either to haul

distances (three miles +) over very rough terrain to alignment, or extensive stripping (15 - 20 feet)

or analysis of successful to the second

of sources closer to the alignment.

## Topography

This source is a kame field located in a glacio-fluvial outwash plain about four miles west of Eskimo Lakes and 26 miles south of Tuktoyaktuk. The kame field is very large - about four miles long and from 500 feet to two miles in width. Previous work was carried out in this field by Ripley Klohn Leonoff and borehole logs from that work are included herein. Features test-drilled extend from near the highway right-of-way to in excess of three miles away.

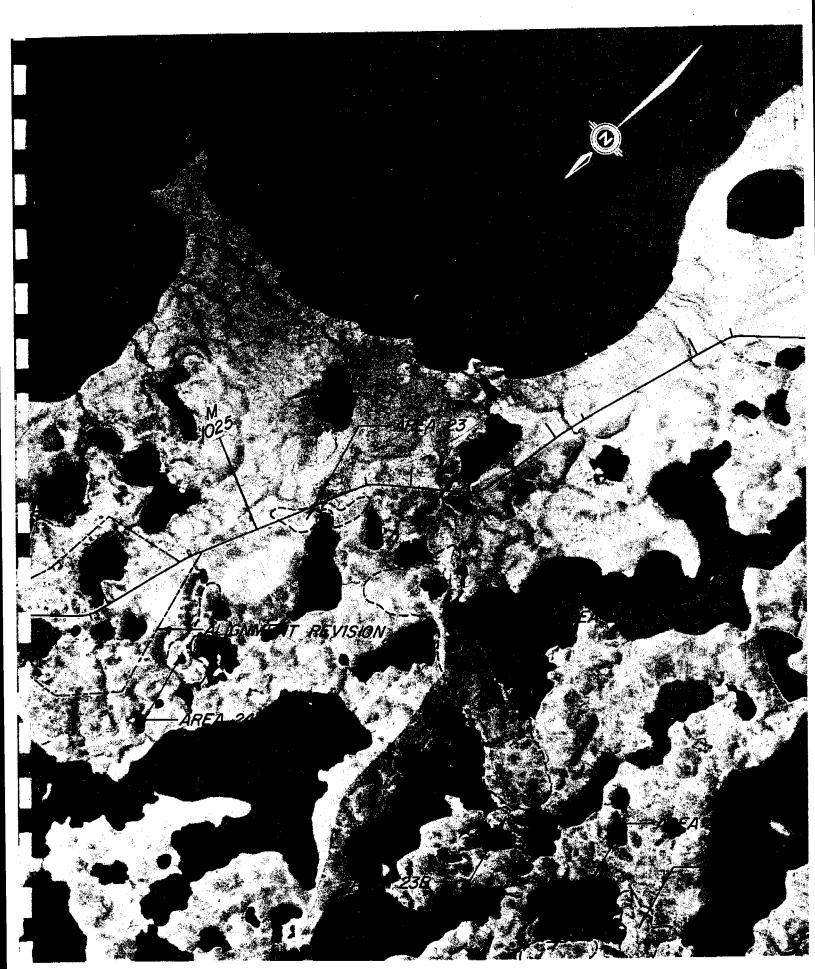
This source and the vicinity contain many ponds and hummocks; about 30 - 40% of the area is covered by water.

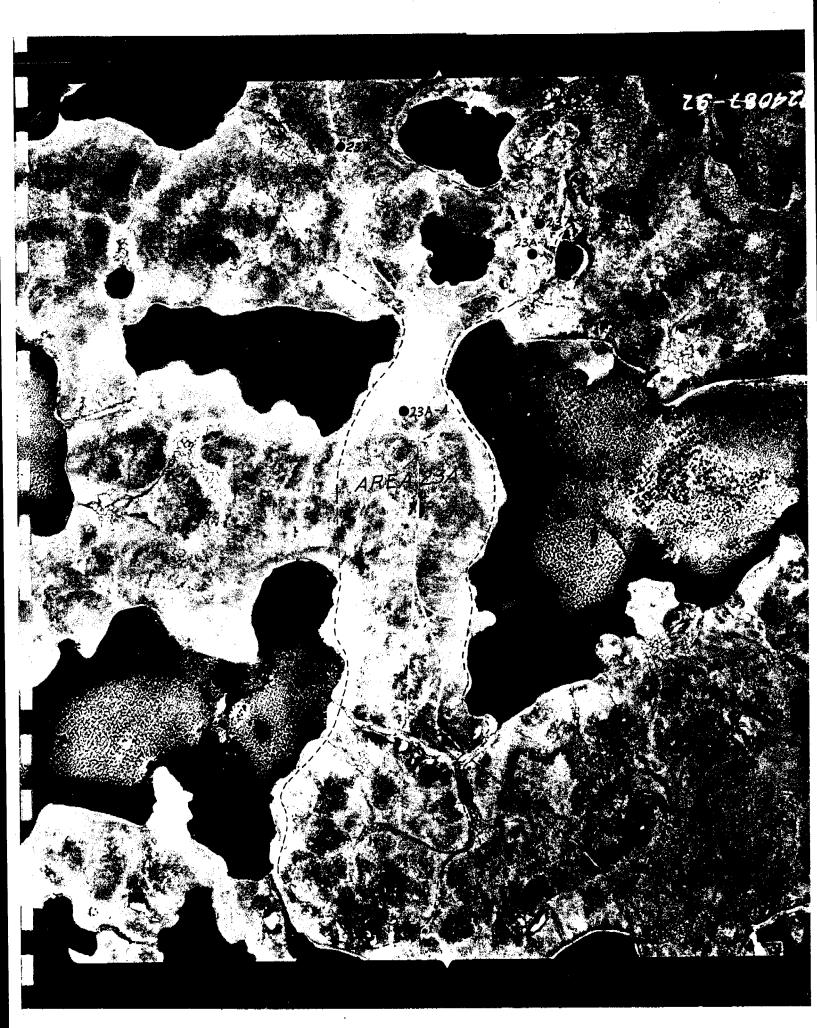
The numerous kames in this source rise from 20 to 100 feet above the surrounding plain, and at their bases measure from 200 to 1,000 feet across. The surrounding area shows the polygonal pattern characteristic of massive ground ice, and ice was encountered in many of the test holes.

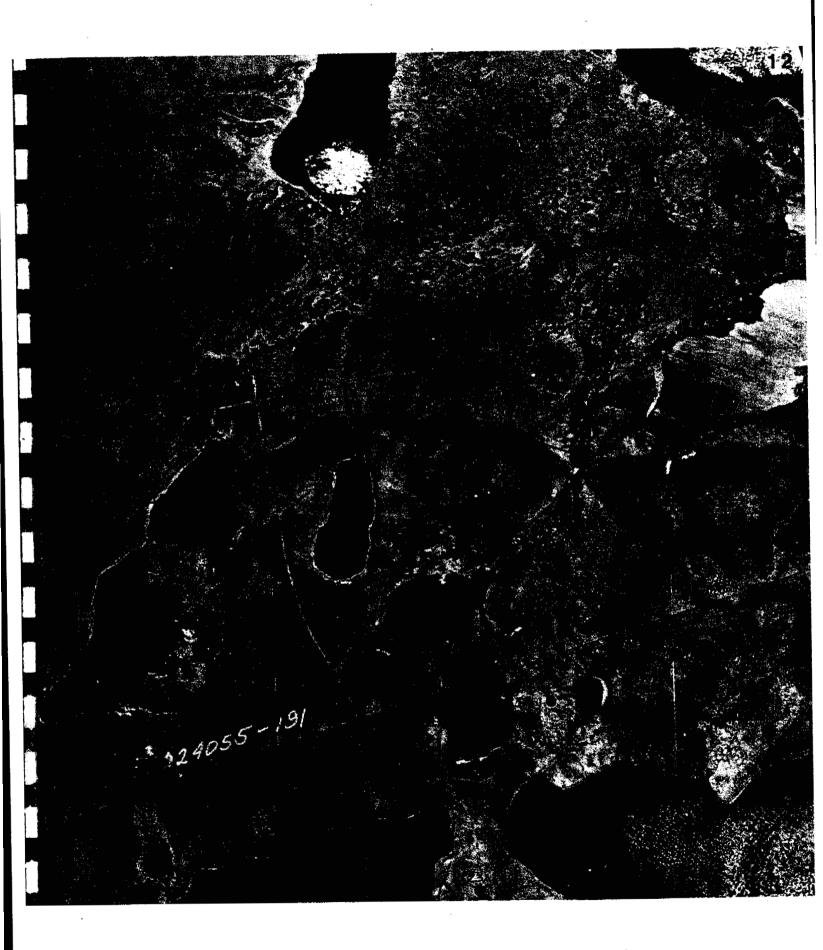
## Materials and Quantities

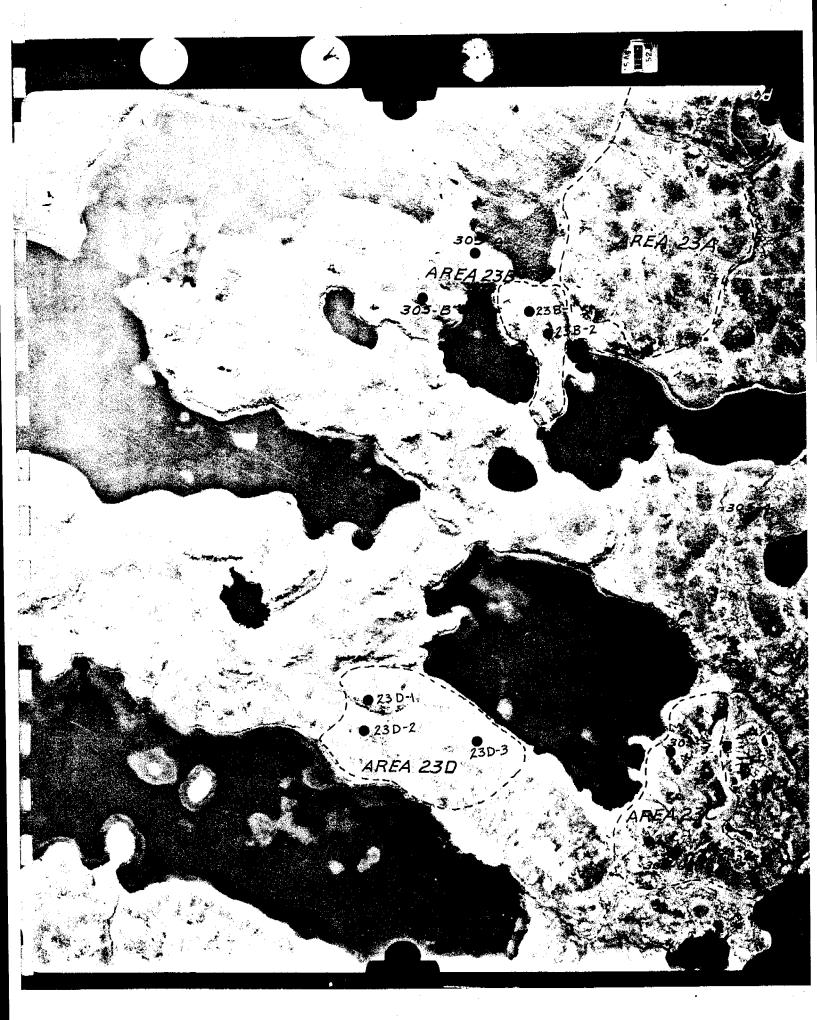
The materials in the kames are variable from clean sands and gravels with little or no visible ice, to silts with minor sand and gravel and high ice contents. There are numerous gravel exposures throughout the

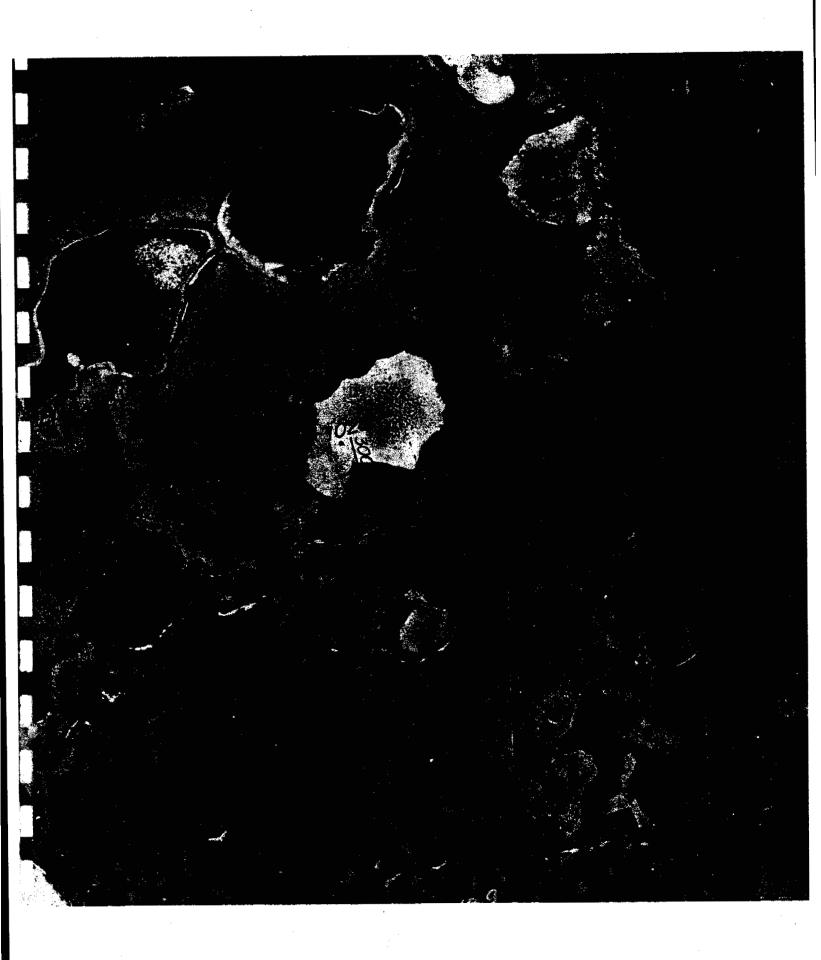
kame field, however, these gravel ridges invariably are narrow and shallow and underlain by massive ground ice. Very few features contain sufficient volume of usable material adequate for development as an embankment source. The larger granular features are located roughly three miles from the right-of-way in the vicinity of Areas #23B, #23C and #23D. There is probably in excess of 500,000 cu. yds. here, however, because of the very rough terrain and the distance from the present alignment, development of these features would not appear to be viable. Sufficient drilling has been carried out only to identify that there are significant quantities of good material in these granular kames and more detailed programmes will be required to define the preferred areas. A significant quantity of sandy gravel was encountered in Area #23 immediately adjacent to the right-of-way at Mile 1024.5, however, this granular material is under 15 to 20 feet of ice-rich silty clay overburden. Because of the extensive stripping this area is not considered suitable for development.





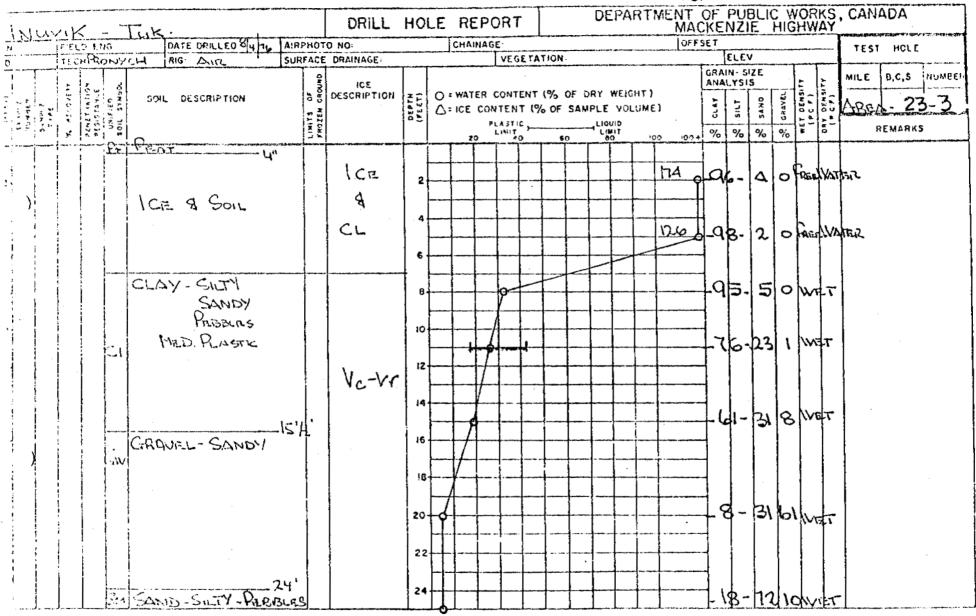






DEPARTMENT OF PUBLIC WORKS, CANADA DRILL HOLE REPORT NUVIK - TUK. DATE DRILLED 416 AIRPHOTO NO: MACKENZIE HIGHWAY OFFSET CHAINAGE TEST HOLE ELEV TECHTRONYCH RIG AIR SURFACE DRAINAGE: VEGETATION: CKD GRAIN SIZE MILE B.C.S INUMBER SAMPLE MUM95R SAMPLE TYPE % RECOVERY RESISTANCE UNIFFED BOIL SYMBOL ICE DESCRIPTION E O = WATER CONTENT (% OF DRY WEIGHT) SOIL DESCRIPTION A = ICE CONTENT (% OF SAMPLE VOLUME) LIMITS FROZEN REMARKS ICE ICE CLAY-SILTY OB- 50 PRELIVATED SONDY PERRUES LOW-MED. PLASTIC 1/5 68-239 WAT 10 63-32 5 Fareware Cı 14 .co-134 6/Satr. 16 46ATPacellagez GRAVEL - SANDY 20. 20 ٧, 22 w 24 24 -5-34-61 CNT. BOTTOM OF Holz. 30

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2 OF 2 DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY DRILL HOLE REPORT AIRPHOTO NO: CHAINAGE OFFSET DATE DRILLED IFIELD ENG TEST HOLE RIG SURFACE DRAINAGE. VEGETATION. ELEV TECH ΚĐ GRAIN- SIZE 00 CHAVEL WET DENSITY (PC F) DAY DEMSITY (P C F) ANALYSIS ICE DESCRIPTION O = WATER CONTENT (% OF DRY WEIGHT) SCIL DESCRIPTION △ : ICE CONTENT (% OF SAMPLE VOLUME) % % REMARKS % 1004 GRAVEL-SANDY 19 - 33 48 VA CLAMPY 32 Gc. \$- 28 ST SAT SAND-GRAVELY Vc-Vr 69 285at GRAVEL-SANGY 44. 27/66SAT. BOTTOM OF HOLE- 45' 46 riB. 20 52 34

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DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY DRILL HOLE REPORT INUVIK - TUK. OFFSET CHAINAGE TEST HOLE DATE DRILLED PLATE AIRPHOTO NO: ELEV VEGETATION SURFACE DRAINAGE: TECHPROMICH RIG AIR CKD GRAIN- SIZE MILE B.C.S NUMBER WET DENSITY (P.C.F.) DRY DENSITY (P.C.F.) ANALYSIS DESCRIPTION E O = WATER CONTENT (% OF DRY WEIGHT) SOIL DESCRIPTION A = ICE CONTENT (% OF SAMPLE VOLUME) PLASTIC :--REMARKS % % % 100+ PENT ICE ICE ICE & SILT ICE+ ML 10 10 5B-4210 SAT. SAND - ORBANIC O ۷ς 12 14 88-12 OWLT SILT-SANDY 18 SAND-GRAVELLY SILTY 15-160129Sat. 20 20 10-V1 22 24

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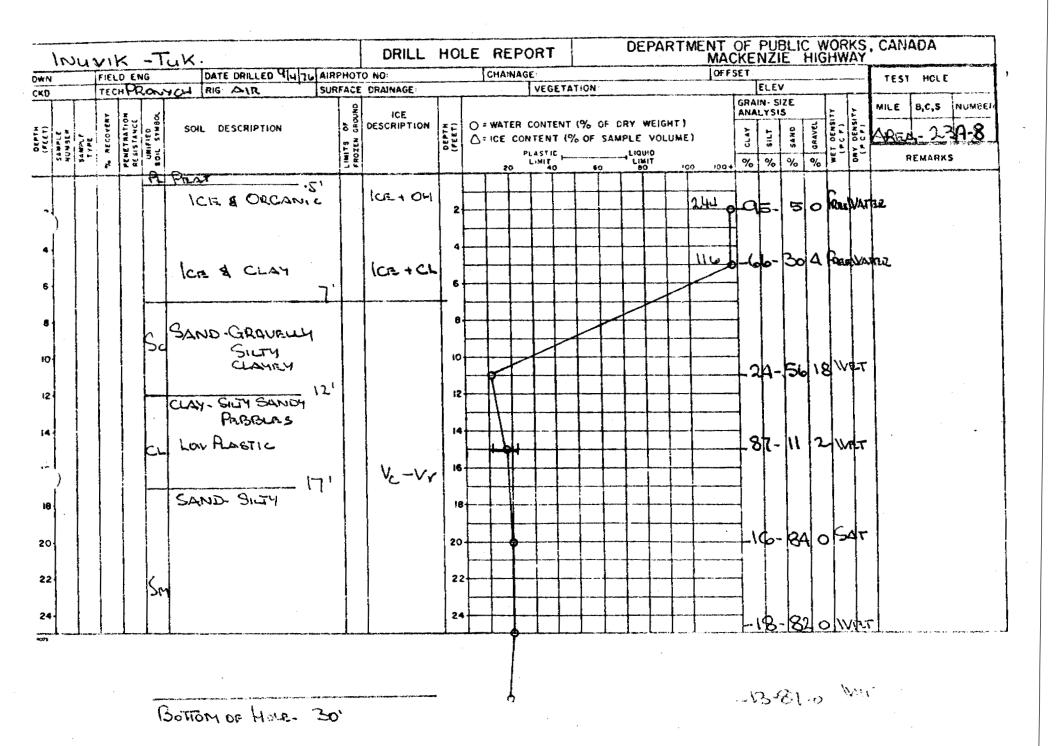
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BOTTOM OF HOLE- 30'

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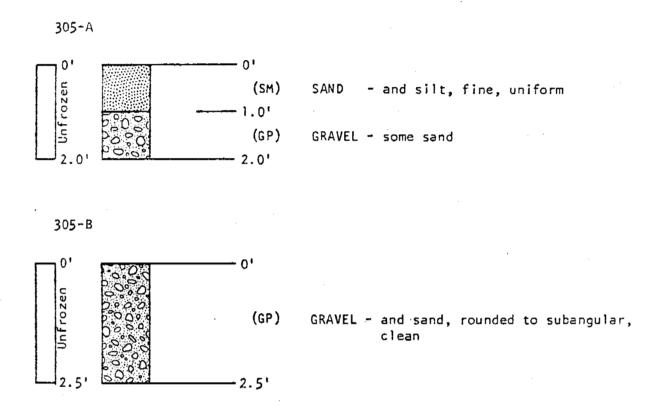
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9	ICE DESCRIPTION	DEPTH (FEET)	O : WATER CONTENT (% OF DRY WEIGHT)  A = ICE CONTENT (% OF SAMPLE VOLUME)  PLASTIC LIMIT  20 LIMIT  100 100	ANALYSIS  4 1 1 8 4 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	AK	230 3 REMARKS
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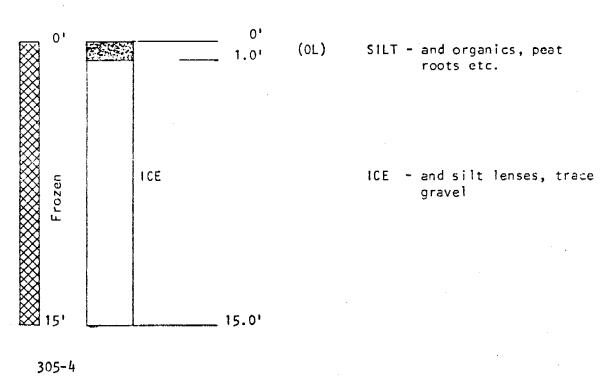
BOTTOM OF HOLE. 30'

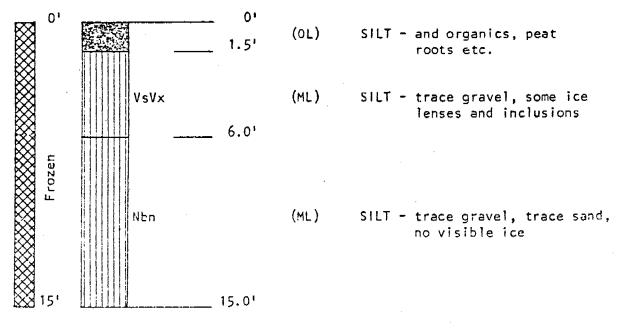
## TEST PIT LOGS SOURCE No. 305



## TEST HOLE LOGS SOURCE No. 305





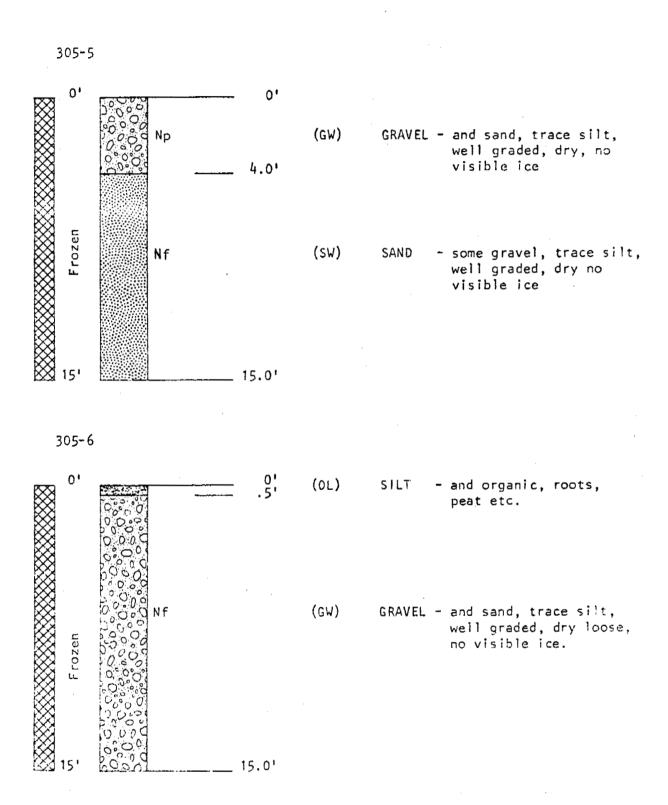


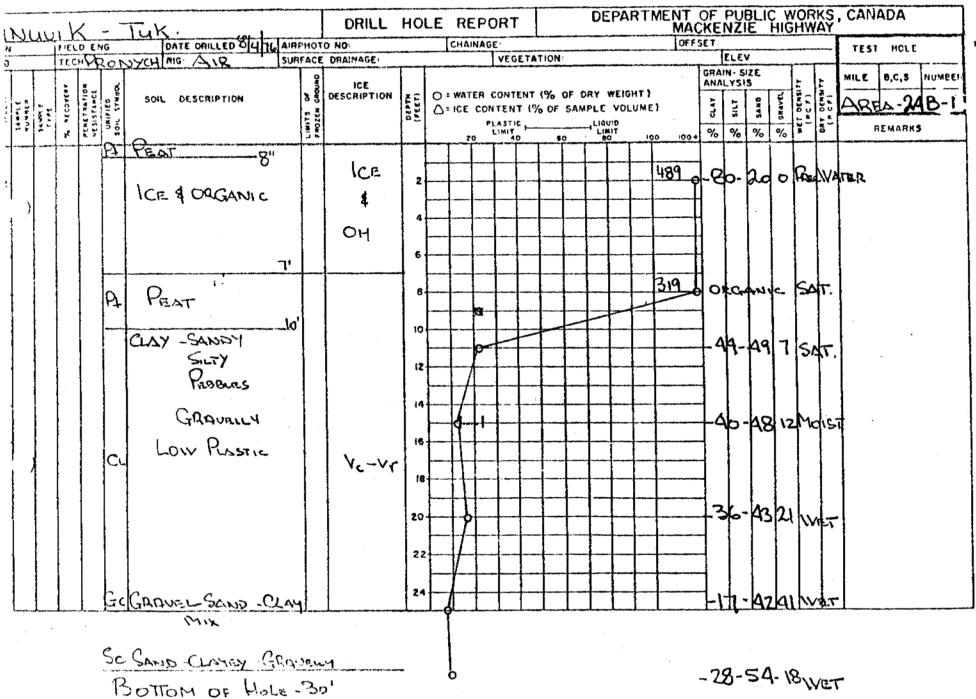
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## TEST HOLE LOGS SOURCE No. 305





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DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY DRILL HOLE REPORT INCIVIK - TUK. DATE DRILLED 84 16 AIRPHOTO NO: OFFSET CHAINAGE: TEST HOLE TECH PRONYCH MIG. AIR SURFACE DRAINAGE: VEGETATION ELEV GRAIN- SIZE MILE B.C.S NUMBER 00 00 mm A 1 mm ICE DESCRIPTION ANALYSIS O : WATER CONTENT (% OF DRY WEIGHT) SOIL DESCRIPTION AREA - 248-2 A = ICE CONTENT (% OF SAMPLE VOLUME) % REMARKS % 1ca KE & SOIL ICE & OH ICIE & ORGANIC CLAY - SILTY SANDY -391 - 134 271 SATT. GRAVALLY CI MAD. PLASTIC ·str-128/15/ Vc-Vr GRAVEL. SANDY SIV -8-326454 SAND. SILTY Passus 45.514 WET 20-M 22 -32-1do-2 Sar

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GRAVEL - SANDY BOTTOM OF HOLE. 29' - 29 '