








PROJECT: Old Crow Water Supply		HOLE NO.: WW 2		PROJECT NO.: 209-3546											
LOCATION: Old Crow, Yukon		SURFACE ELEVATION:													
DRILL: Schramm Rotadrill															
SAMPLE TYPE: <input checked="" type="checkbox"/> THIN WALLED TUBE <input checked="" type="checkbox"/> SPLIT SPOON <input type="checkbox"/> DISTURBED <input checked="" type="checkbox"/> NO RECOVERY <input type="checkbox"/> CORE <input type="checkbox"/> OTHER															
DEPTH (m.)	SOIL DESCRIPTION	UNIFIED SOIL CLASS.	SAMPLE DEPTH (ft.)	WATER CONTENT-% : ●				COMPRESSIVE STRENGTH							
				PLASTIC LIMIT (W _p)	LIQUID LIMIT (W _L)		Unconfined..... ▲ Pocket Penetrometer..... Δ TSF 1 2 3 4 5 kPa 100 200 300 400								
1	SILT AND CLAY - frozen, trace of wood, olive brown, to grey		2												
2			4												
3			6												
4			8												
5	SAND AND SILT - frozen, brown		10												
6	GRAVEL - possibly unfrozen, silty, some sand, medium grained		12												
7			14												
8			16												
9			18												
10			20												
11	CLAY - frozen, silty, grey		22												
12			24												
13			26												
14			28												
15			30												
16			32												
17			34												
18			36												
19			38												
20			40												
21			42												
22			44												
23			46												
24			48												
25			50												
26			52												
27			54												
28			56												
29			58												
30			60												
31			62												
32			64												
33			66												
34			68												
35			70												
36			72												
37			74												
38			76												
39			78												
40			80												
		DEPTH TO WATER: 		WET UNIT $\frac{KN}{m^3}$ 16 18 20 22				20 40 60 80							
DEPTH TO SLOUGH: —		WEIGHT-O P.C.F. 100 110 120 130 140 150				STANDARD PENETRATION: N- <input checked="" type="checkbox"/>									
		COMPLETION DEPTH: 121.9 m		DATE DRILLED: 1982 02 18, 19, 20											
		LOGGED BY: PKG		DRAWING NO.:											




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25	SILT - as above, frozen		90											
26			92											
27			94											
28	CLAY - some silt, grey, frozen		86											
29			90											
30	SAND - frozen, clayey, trace of gravel, fine grained, brown		92											
31			94											
32	- silty from 32.0 to 33.5 m		96											
33			98											
34			100											
35			102											
36	SANDSTONE - frozen, trace of pebbles, fine grained, uniform, brown		104											
37			106											
38			108											
39			110											
40			112											
41			114											
42			116											
43			118											
44			120											
45			122											
46			124											
47			126											
48			128											
			130											
			132											
			134											
			136											
			138											
			140											
			142											
			144											
			146											
			148											
			150											
			152											
			154											
			156											
			158											
			160											
 DEPTH TO WATER:  DEPTH TO SLOUGH: 		WET UNIT $\frac{kN}{m^3}$ 16 18 20 22 WEIGHT-O P.C.F. 100 110 120 130 140 150				STANDARD PENETRATION: N. ● 20 40 60 80								
		COMPLETION DEPTH: 121.9 m		DATE DRILLED: 1982 02 18, 19, 20										
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
This log is a compilation of subsurface conditions and soil or rock classification obtained from the field as well as from laboratory testing of samples from the borehole. Soil zones have been interpreted according to commonly accepted practice. The change from one zone to another, as indicated on the log, may be transitional and approximate in nature. Groundwater conditions refer only to those observed at the times and places indicated and they may vary with time, geologic conditions, and construction activity.

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DRILL: Schramm Rotadrill		
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DEPTH (m.)	SOIL DESCRIPTION	UNIFIED SOIL CLASS.	SAMPLE	DEPTH (ft.)	WATER CONTENT-% : ●					COMPRESSIVE STRENGTH						
					PLASTIC LIMIT (Wp)		LIQUID LIMIT (WL)			Unconfined..... ▲ Pocket Penetrometer..... Δ TSF 1 2 3 4 5 kPa 100 200 300 400						
- 49	SANDSTONE - as above, frozen			-158												
				-160												
					-162											
- 50					-164											
					-166											
- 51					-168											
					-170											
- 52					-172											
					-174											
- 53					-176											
					-178											
- 54					-180											
					-182											
- 55					-184											
					-186											
- 56					-188											
					-190											
- 57					-192											
					-194											
- 58					-196											
					-198											
- 59					-200											
				-202												
- 60				-204												
				-206												
- 61				-208												
				-210												
- 62	SILTSTONE AND SHALE - highly weathered, faulted(?), fractured, grey, trace of biotite			-212												
				-214												
- 63					-216											
					-218											
- 64					-220											
					-222											
- 65					-224											
					-226											
- 66					-228											
					-230											
- 67					-232											
					-234											
- 68				-236												
				-238												

	DEPTH TO WATER: 	WET UNIT $\frac{KN}{m^3}$ 16 18 20 22	STANDARD PENETRATION: N- <input checked="" type="checkbox"/>
	DEPTH TO SLOUGH: —	WEIGHT-O P.C.F. 100 110 120 130 140 150	COMPLETION DATE
		DEPTH: 121.9 m	DRILLED: 1982 02 18, 19, 20
		LOGGED BY: PKG	DRAWING NO.:




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				PLASTIC LIMIT (W _p)	LIQUID LIMIT (W _L)		Pocket Penetrometer..... ▲										
				20	40	60	80	TSF 1 2 3 4 5									
								kPa 100 200 300 400									
72																	
73	SILTSTONE AND SHALE - as above		238														
74			240														
75			242														
76			244														
77			246														
78			248														
79	ROCK FLOUR - silty, clayey, damp, orange-brown, no free water, may be fault gouge or an erosional surface, mylonite? - water at 79.3 m		250														
80	LIMESTONE - grey, lithology uncertain, little water		252														
81			254														
82			256														
83	LIMESTONE - shaley, fractured, grey, water bearing but little water to 83.8 m		258														
84			260														
85	- grey brown, thinly bedded, dolomitic		262														
86			264														
87	DOLOMITE - dark grey-green, clayey bands approximately 5 - 10 mm thick that contain numerous rock fragments and could possibly be called mylonite zones, extensively fractured, fractures are water bearing but mylonite debris is preventing proper well development and keeping a high sediment load in the water		266														
88			268														
89			270														
90	- interbedded clayey bands and shale from 91.4 m		272														
91			274														
92			276														
93			278														
94	- fractured, appears weathered		280														
95			282														
96			284														
			286														
			288														
			290														
			292														
			294														
			296														
			298														
			300														
			302														
			304														
			306														
			308														
			310														
			312														
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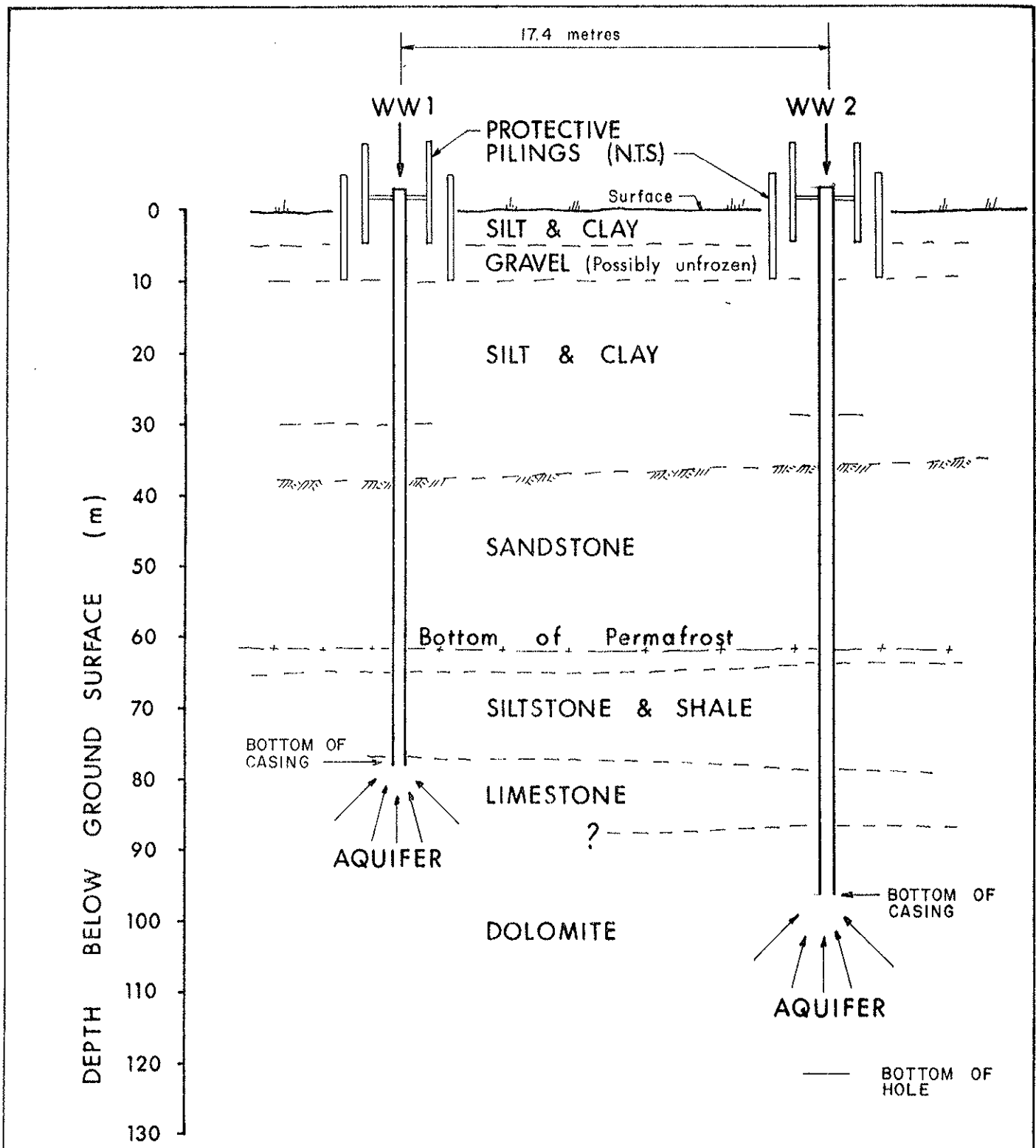
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					20	40	60	80	TSF 1	2	3	4	5	kPa 100	200	300	400
97	DOLOMITE - as above			316	-----BOTTOM OF CASING-----												
98				318													
99				320													
100				322													
101	- occasional "mylonite like" layers up to 250 mm thick, from 100.6 m			324													
102				326													
103				328													
104				330													
105				332													
106				334													
107				336													
108				338													
109				340													
110				342													
111				344													
112				346													
113				348													
114				350													
115				352													
116				354													
117				356													
118				358													
119				360													
120				362													
				364													
				366													
				368													
				370													
				372													
				374													
				376													
				378													
				380													
				382													
				384													
				386													
				388													
				390													
				392													
				394													
				396													
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							TSF 2 3 4 5							
					kPa 100 200 300 400									
-121	DOLOMITE - as above			394										
	- increased water flow noted at 121.3 m			396										
				39R										
-122	END OF HOLE (121.9 m)			400										
-123				402										
-124	NOTE: No more drill stem; artesian water conditions encountered. Flow from top of casing approximately 2.3 L/s at time of drilling.			404										
-125														
-126														
-128														
-130														
-131														
-132														
-133														
-134														
-135														
-136														
-137														
-138														
-139														
-140														
-141														
-142														
-143														
-144														
-145														

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GENERALIZED SUBSURFACE CONDITIONS
WATER WELL SITE
OLD CROW, YUKON

NOTE
 HORIZONTALLY N.T.S.

EBA Engineering Consultants Ltd. 	
JOB NO.: 209-3546	DATE: 1982-06-07
DRAWN BY: [REDACTED]	DRAWING NO.:
REVIEWED BY: [REDACTED]	3546 - A - 2