









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:  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- <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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				PLASTIC LIMIT (W _p)	LIQUID LIMIT (W _L)		Unconfined..... ▲ Pocket Penetrometer..... Δ TSF 1 2 3 4 5 kPa 100 200 300 400													
25	SILT - as above, frozen		90																	
26			92																	
27			94																	
28	CLAY - some silt, grey, frozen		96																	
29			98																	
30	SAND - frozen, clayey, trace of gravel, fine grained, brown		100																	
31			102																	
32	- silty from 32.0 to 33.5 m		104																	
33			106																	
34			108																	
35			110																	
36	SANDSTONE - frozen, trace of pebbles, fine grained, uniform, brown		112																	
37			114																	
38			116																	
39			118																	
40			120																	
41			122																	
42			124																	
43			126																	
44			128																	
45			130																	
46			132																	
47			134																	
48			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				STANDARD PENETRATION: N. ●														
		COMPLETION DEPTH: 121.9 m				DATE DRILLED: 1982 02 18, 19, 20														
		LOGGED BY: PKG				DRAWING NO.:														

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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				PLASTIC LIMIT (W _p)	LIQUID LIMIT (W _L)		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	----- BOTTOM OF PERMAFROST? -----										
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												
69														
70														
71														
72														
 DEPTH TO WATER:  DEPTH TO SLOUGH: 				WET UNIT $\frac{kN}{m^3}$ 16 18 20 22		20 40 60 80		STANDARD PENETRATION: N- <input checked="" type="checkbox"/>						
				COMPLETION DEPTH: 121.9 m				DATE DRILLED: 1982 02 18, 19, 20						
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<input type="checkbox"/> NO RECOVERY			<input checked="" 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)		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	ROCK FLOUR - silty, clayey, damp, orange-brown, no free water, may be fault gouge or an erosional surface, mylonite?			248												
79	- 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												
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				304												
				306												
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				310												
				312												
				314												
				316												






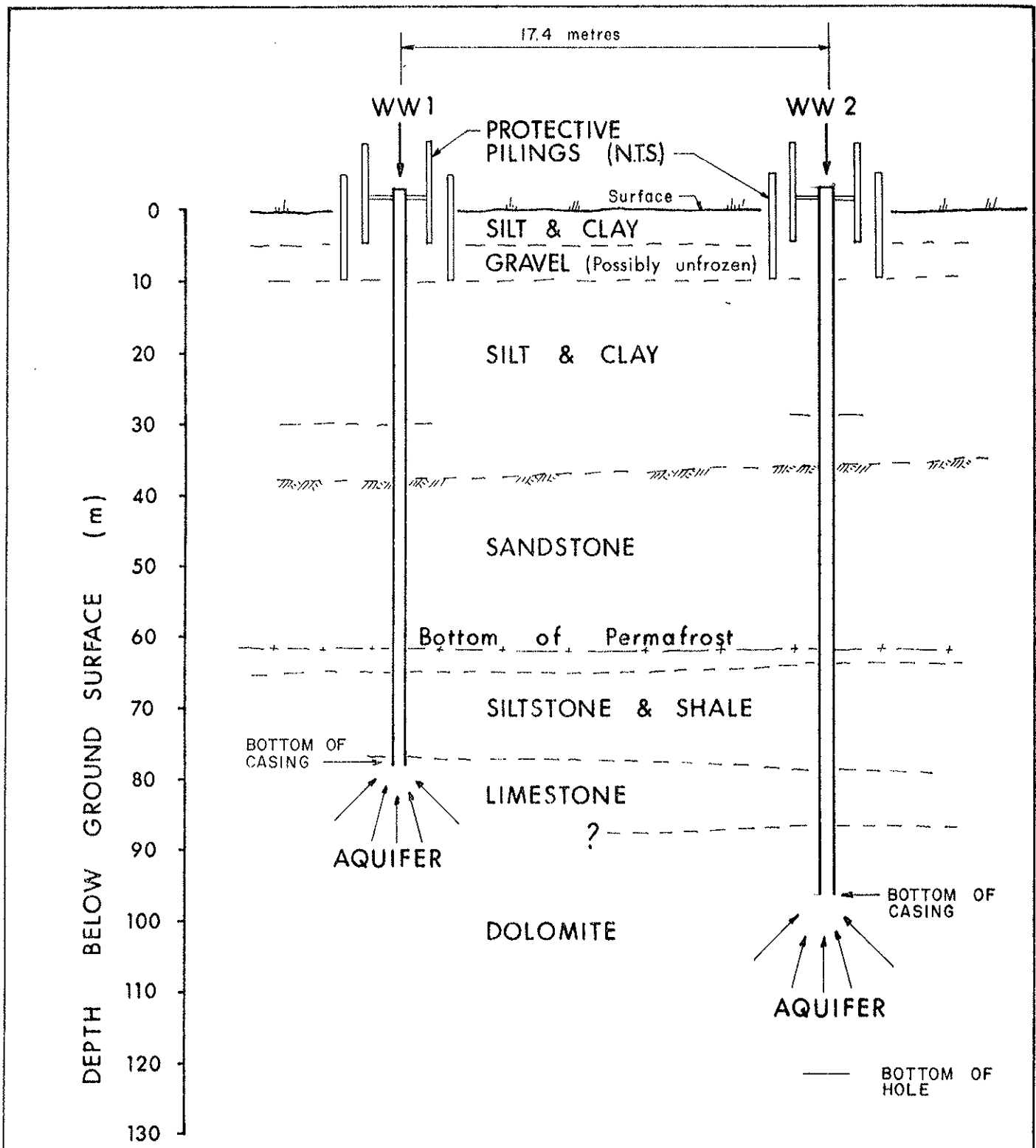
DEPTH TO WATER: ▾
 DEPTH TO SLOUGH: —

WET UNIT $\frac{kN}{m^3}$	16	18	20	22	20	40	60	80
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			
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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													
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				20	40	60	80	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															
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-138															
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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: MW	DRAWING NO.:
REVIEWED BY: 	3546 - A - 2