



BROWN, ERDMAN & ASSOCIATES LTD.
1401 BEWICKE AVENUE, NORTH VANCOUVER, BRITISH COLUMBIA V7M 3C7
TELEPHONE 886-1667

78-091

December 21st, 1978

Cameron Division
MacMillan Bloedel (Alberni) Limited
P. O. Box 550
Port Alberni, B. C.
V9Y 7N4

Attention: Mr. J. Walter Cowlard
Project Engineer

Subject: Water Supply China Creek
Dryland Sort

Dear Sirs:

The second production well has been completed and test pumped. Production Well No. 2 is drilled to a total depth of 510 feet. Eight-inch diameter hole was drilled to a depth of 80 feet and 6-inch diameter casing set. Drilling then proceeded with 6-inch diameter hole to a depth of 120 feet where a highly fractured zone was penetrated. A short pump test was run at this depth but the indications were that sufficient water was not available.

The well was then deepened to 510 feet and a 5-inch diameter liner was set to 120 feet to control the material in the 120 foot fracture zone.

The second pump test was started at a rate of 30 Igpm and held at this rate until the pumping level had reached 233 feet below ground surface (150 minutes). The pumping rate was then slowly reduced until the rate had declined to 18.8 Igpm and the pumping level had reached 347.60 feet. After the final reduction in the pumping rate the level in the well started to rise and by the end of the test the pumping level had reached 297.08 feet and was still rising.

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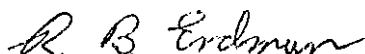
At the end of the pump test a water sample was collected for chemical analysis. The results of the analysis will be forwarded when they are obtained from the lab.

To allow for the dry summer months the well has been rated at 15 Igpm (21,600 gallons per day) which will meet your 15,000 gpd requirement. The suction of the pump should be set to a depth of 400 feet and the maximum outside diameter of the pump should be four inches. By setting the pump at 400 feet additional safety factors have been built in.

The air photos that you sent are enclosed. If any of the above needs clarification or amplification please do not hesitate to contact us.

Yours truly

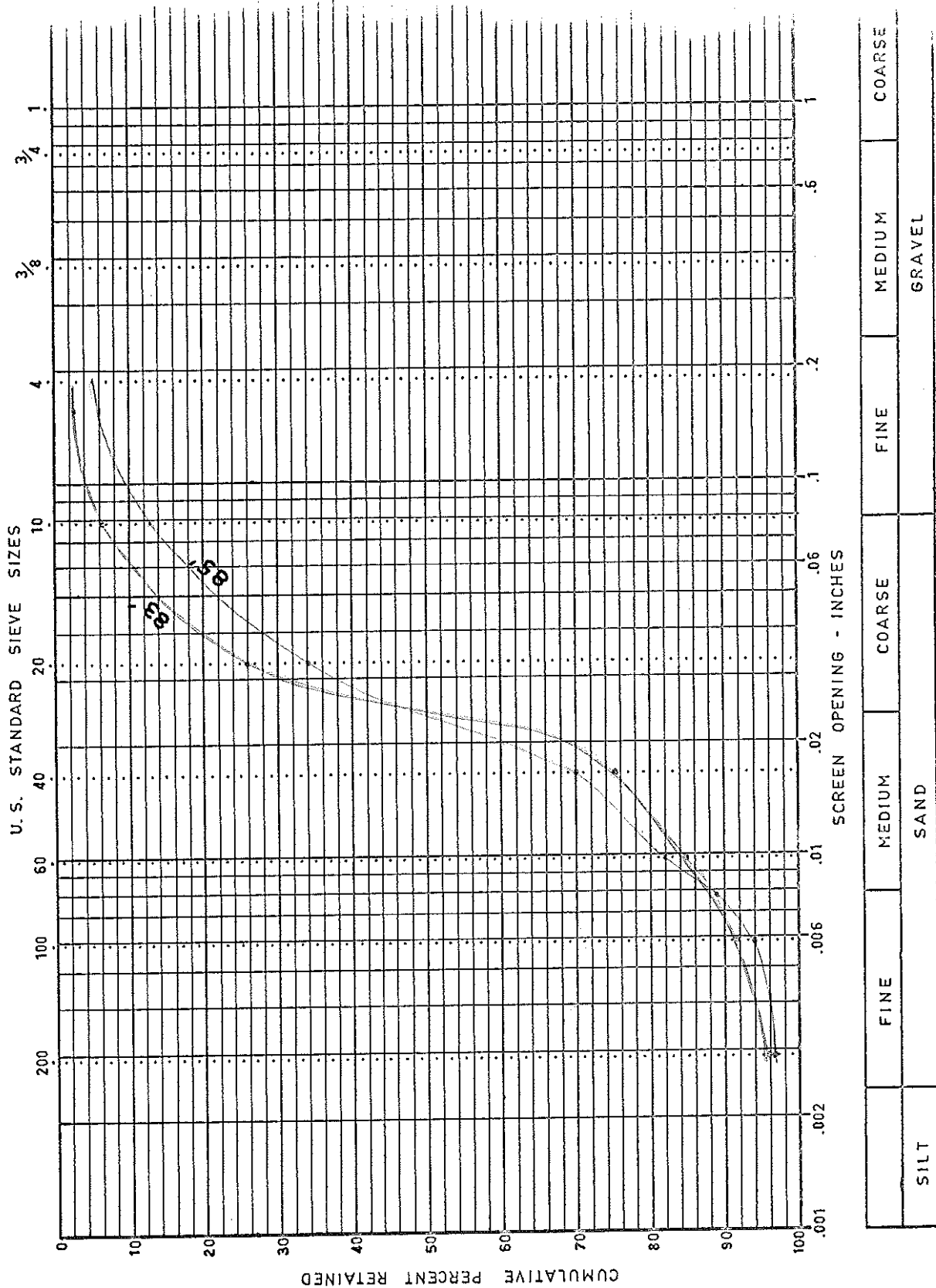
BROWN, ERDMAN & ASSOCIATES LTD.



R. B. ERDMAN

RBE/sa

Encls: Air photos (3)



M.I.T. GRAIN SIZE CLASSIFICATION

MACMILLAN BLOEDEL
CHINA CREEK



INTERNATIONAL GROUNDWATER CONSULTANTS LTD.
NORTH VANCOUVER, BRITISH COLUMBIA

GRAIN SIZE ANALYSIS

BY:	HWR	DATE:	26-10-78
JOB:	78-091	DWG:	

MIN-EN Laboratories Ltd.

Specialists in Mineral Environments

Corner 15th Street and Bewicke
705 WEST 15th STREET
NORTH VANCOUVER, B.C.
CANADA

October 26, 1978.

Erdman Brown & Assoc.,
1401 Bewicke Ave.,
North Vancouver, B.C.

File No: 8-533

SIEVE ANALYSIS

<u>Sample Number</u>	<u>Mesh Size</u>	<u>Weight Retained</u>	<u>Weight Passed</u>
China Creek 83'	+5	34 34 5.9	544
	+10	42 76 13.1	502
	+20	122 198 34.3	380
	+40	207 405 70.1	173
	+60	69 474 82.0	104
	+80	38 512 88.6	66
	+100	32 544 94.1	34
	+200	15 559 96.7	19
	+200	19 578	

TOTAL 578 gm *

China Creek 85'	+5	27 27 5.7	964
	+10	37 64 6.5	927
	+20	195 259 26.1	732
	+40	487 286 75.3	245
	+60	94 840 84.8	151
	+80	45 885 89.3	106
	+100	22 907 91.5	84
	+200	42 949 95.8	42
+200	42 991		

TOTAL 991 gm *

Alvin [Signature]
Certified By

October 26, 1978.

Erdman Brown & Assoc.,
1401 Bewicke Ave.,
North Vancouver, B.C.

File No: 8-533

SIEVE ANALYSIS

<u>Sample Number</u>	<u>Mesh Size</u>	<u>Weight Retained</u>	<u>Weight Passed</u>
China Creek 83'	+5	34	544
	+10	42	502
	+20	122	380
	+40	207	173
	+60	69	104
	+80	38	66
	+100	32	34
	+200	15	19
	+200	19	

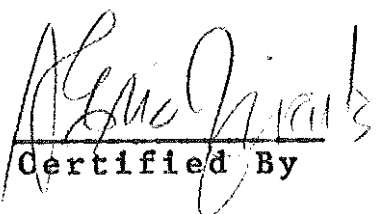
TOTAL

578 gm *

China Creek 85'	+5	27	964
	+10	37	927
	+20	195	732
	+40	487	245
	+60	94	151
	+80	45	106
	+100	22	84
	+200	42	42
	+200	42	

TOTAL

991 gm *


Certified By