



To: Mr. A.P. Kohut
Sr. Geological Engineer
Groundwater Section
Water Management Branch

Date: November 24, 1982

File: 0183613-B

Re: Groundwater Observation Well Network Expansion Program
1982-83, Comox-Little River Area, Field Survey

Introduction

I re-visited the Comox-Little River area for a day on November 22, 1982, to specifically try to secure the Whyte and Waterfield wells (Figure 1) for use as observation wells and to re-canvass the area for any other suitable abandoned wells. My schedule for the trip is as follows:

November 22, 1982

Early morning - Victoria to Comox
Morning - Visited the Whyte and Waterfield homes
Afternoon - Re-canvassed the area along Anderton Road near Guthrie Road and near Noel Avenue
Evening - Comox to Victoria

This memorandum summarizes my findings.

Whyte Well

I discussed with Mr. W.D. Whyte the purpose of our program and general terms and procedures for using his well as an observation well. Together, we investigated the well; the well information is presented below:

Location - Comox District, D.L. 170, Pl. 21086, Lot 1.
Owner - Mr. W.D. Whyte, R.R. 1, Site 25, Comox, B.C.
V9N 5N1, Phone 339-5003.
Driller - Nelson Well Drilling and Services, P.O. Box 92,
Union Bay, B.C., Phone 335-2272.
Date Completed - 1975
Method - Drilled
Depth - 65 ft.
Casing diameter - 6 inches
Casing stickup - 6 inches
Depth of water from top of casing - 53 ft. 5 inches.
Screen type - No. 15 slot, Johnson stainless steel

- Slug test - well responded to test
- water level in well dropped back down to original static level (100% recovery) in 16 minutes
 - measurements appear to reflect a K value of the order of magnitude of $10^{-3} \frac{\text{cm}}{\text{s}}$ (see field notes and Freeze and Cherry, 1979)

Collar elevation \pm approximately 200 ft.

Well log - unavailable

Photos 1 and 2 show the Whyte well. Mr. Whyte gave us verbal permission to use the well as an observation well and agreed to be the recorder but told me that he is selling his house. He will inform the new owner of our program when they move in the future.

Waterfield Well

Mr. K. Waterfield signed the letter of agreement I had presented him and he is also willing to be the recorder. We investigated his well and the information obtained is shown below:

Location - Comox District, D.L. 239, PL. 26554, Lot D.

Owner - Mr. K. Waterfield, Box 257, Cumberland, B.C.
Phone 339-6777

Method - Drilled

Depth - 78 ft.

Casing diameter - 6 inches

Casing stickup - 7 inches

Depth to water from top of casing - 34 ft. 4 inches

Slug test - well responded to test

- water level dropped back down to 7 inches above original static level (92% recovery) in 41 minutes.
- measurements appear to reflect a K value of the order of magnitude of 10^{-3} cm/s (see field notes and Freeze and Cherry, 1979)

Collar elevation - approximately 95 ft.

Well log - 0 ft. to 9 ft., topsoil/till
9 ft. to 98 ft., sand

Photo 3 shows the present condition of the well collar. We can go and install the recorder anytime.

Updated Well Status

The updated status of five wells is included in Figure 1 and outlined below. Status of the wells east of Anderton Road near Birkdale Farm and west of Anderton Road near Noel and Robb Avenues are still not confirmed.

Village of Comox well - (X9E Y4 #7) - backfilled

Sideen well - still being used

Southern and Gorden well - (X10E Y5 #4) - abandoned;
boarded up but located in the
middle of the driveway (thus
cannot be used as an observation
well)

Martin well - (X10E Y5 #3?) - still being used

White well - (X10E Y6 #19)-abandoned, the Clarks, who
are renting out the place, spoke
to Mrs. A. White last week and
Mrs. White will write our office
to inform us of her decision to
use her well.

Further Work To Be Done

- 1) Install recorder on the Waterfield well.
- 2) Contact Mr. Whyte to inform him that we should wait
and speak to the eventual new owner about us using this
well.
- 3) Contact Nelson Well Drilling and Services to get more
information on the Whyte well .
- 4) Await Mrs. White's letter regarding her well.

References

Freeze, R.A. and Cherry, J.A. 1979. Groundwater. Prentice-Hall
Inc., Englewood Cliffs, New Jersey.

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Attachment