INTERMOUNTAIN AERIAL SURVEYS
A DIVISION OF WESTERN SURVEYORS GROUP, INC.

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February 21, 1989

RECEIVED
FEB 23 1989
VALLEY CAMP OF UTAH, INC.

Mr. Barry Barnum
Valley Camp of Utah, Inc.
Scofield Route
Helper, Utah 84526

Re: 1988 Subsidence Study-Belina Mine Complex

Dear Barry:

During August 1988, we obtained black and white aerial photography at a scale of 1:6000 covering your entire operation at the above mine. This photography, initial control survey provided by Bruce Ware and subsequent aerotriangulation, will comprise the base line data needed to establish a photogrammetric monitoring system for possible subsidence induced by underground mining.

After we obtain photography, supporting survey and aerotriangulation control for 1989, we can then set the stereo models for both years and compare any differences in ground elevations on similar geographic points over the mined areas. We will then submit our first subsidence report to you sometime prior to March 1990.

As I stated over the telephone, we discovered a need for at least one additional ground control point on the far easterly flight line located in the SE 1/4 SW 1/4 of Section 30, T13S, R7E, SLM. Since this point is outside the current mining area, it will have no affect on our 1988 photography and base line measurements. This point can easily be obtained when Bruce measures this years control.

If you have questions or need further explanations on any of the above, please do not hesitate to call. We are extremely anxious to complete the second half of the study this year so we can analize the data and submit our study for your report to the Oil, Gas and Mining Division of the Utah Natural Resources Department.

Very truly yours,

INTERMOUNTAIN AERIAL SURVEYS

Tom O. McCullough
Vice President

TOM/cw

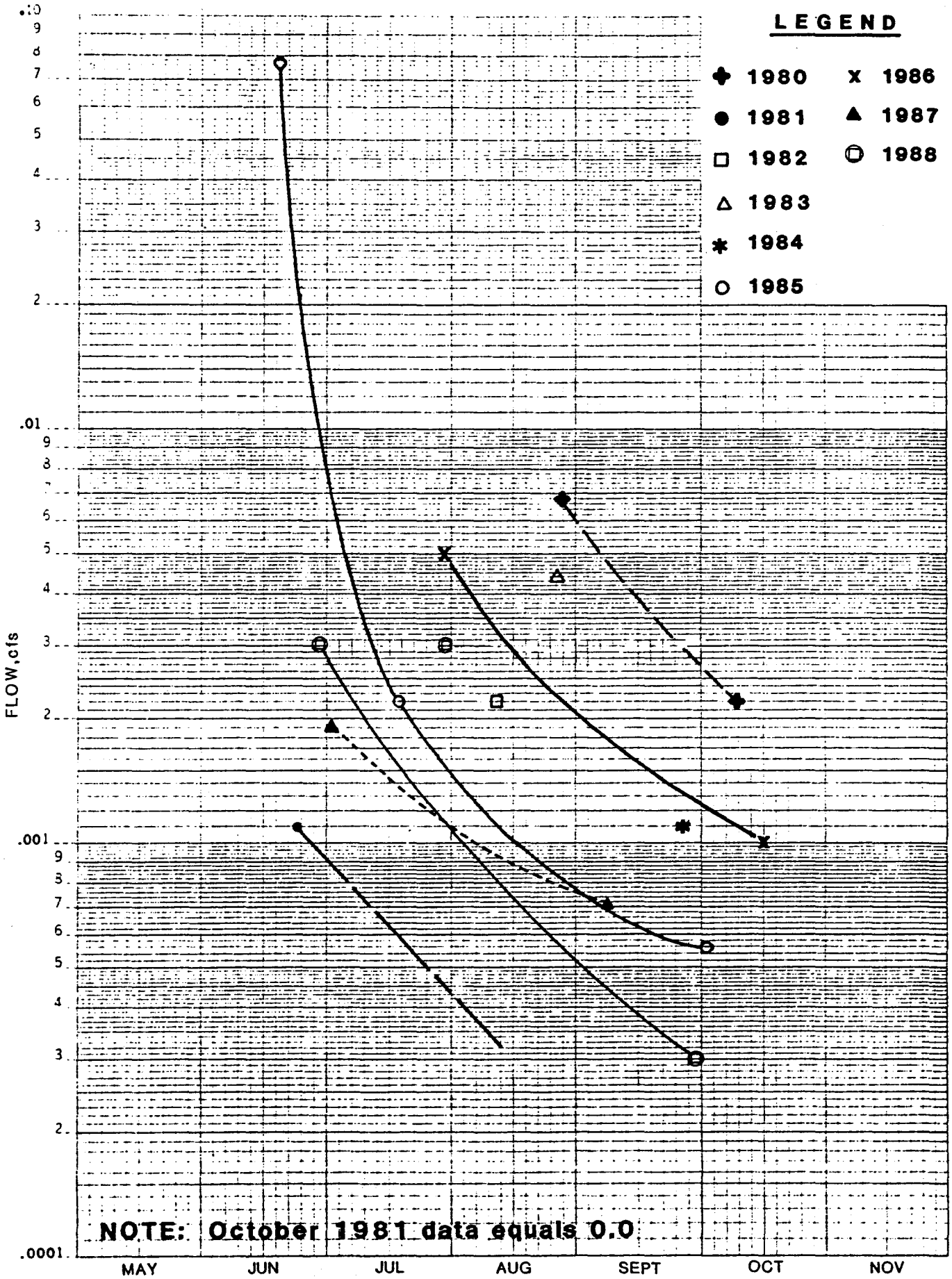

Figure 2. Spring S7-11 Depletion Curve

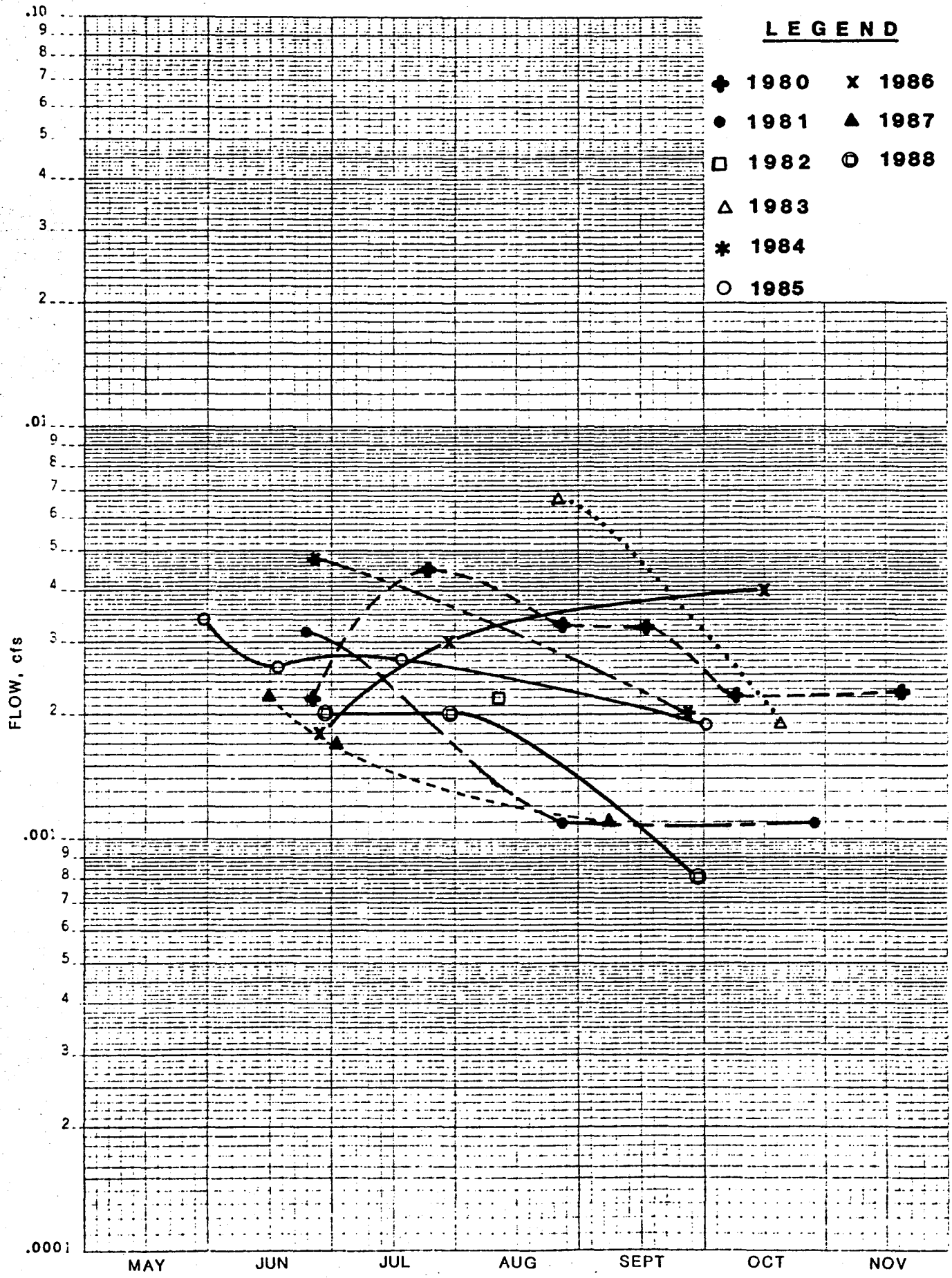

Figure 3. Spring S24-12 Depletion Curve

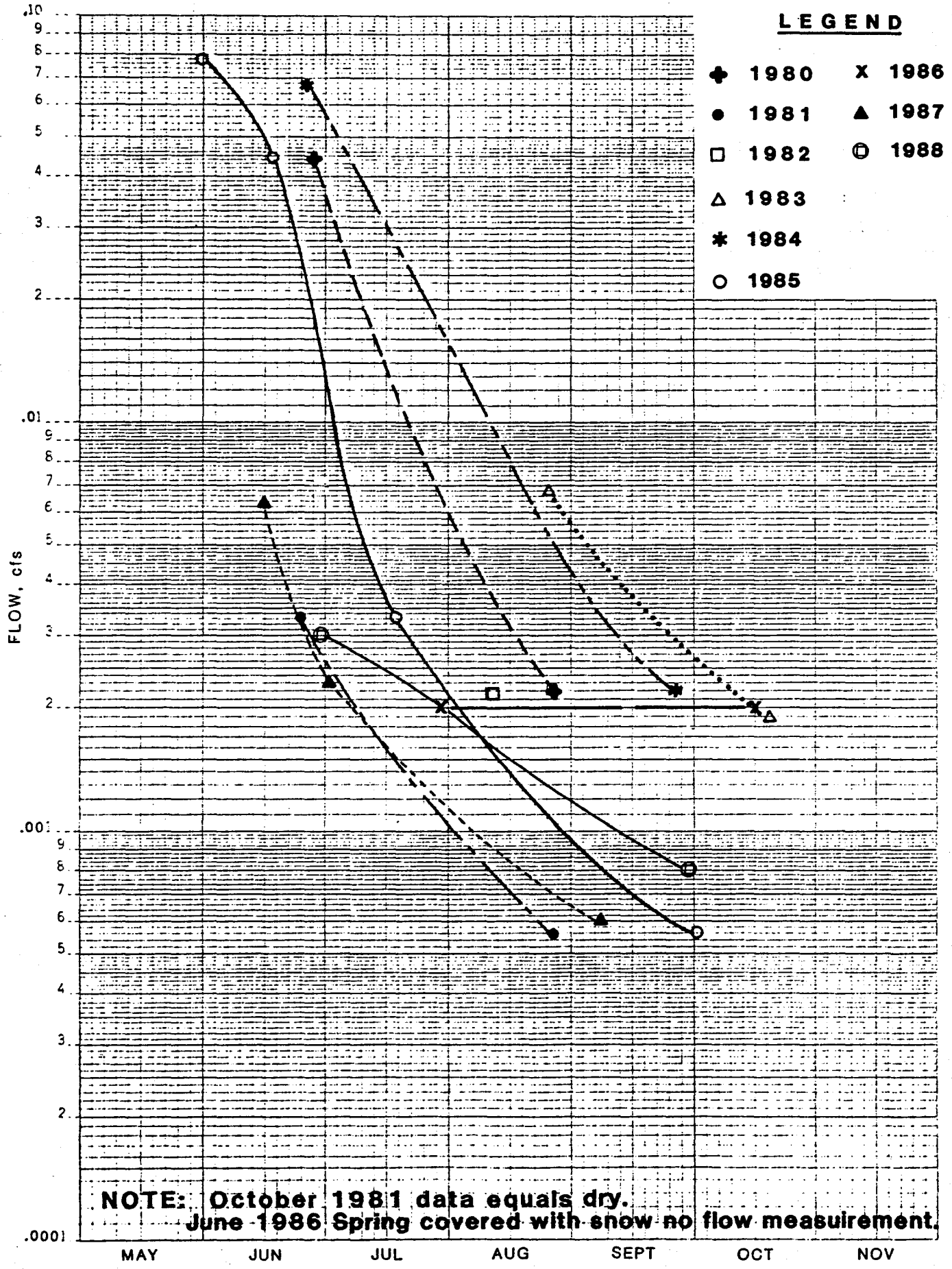

Figure 4. Spring S25-13 Depletion Curve

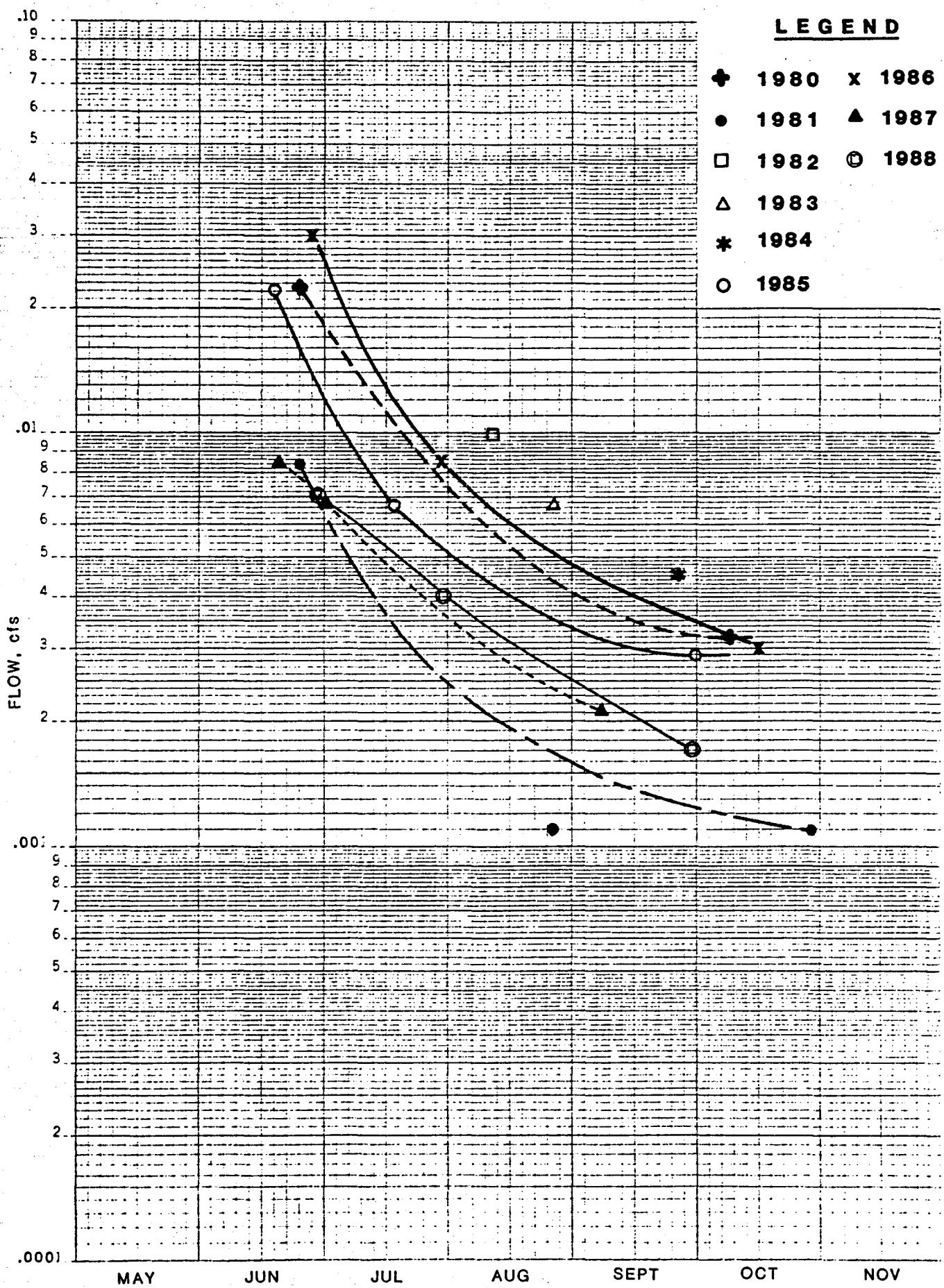

Figure 5. Spring S31-13 Depletion Curve

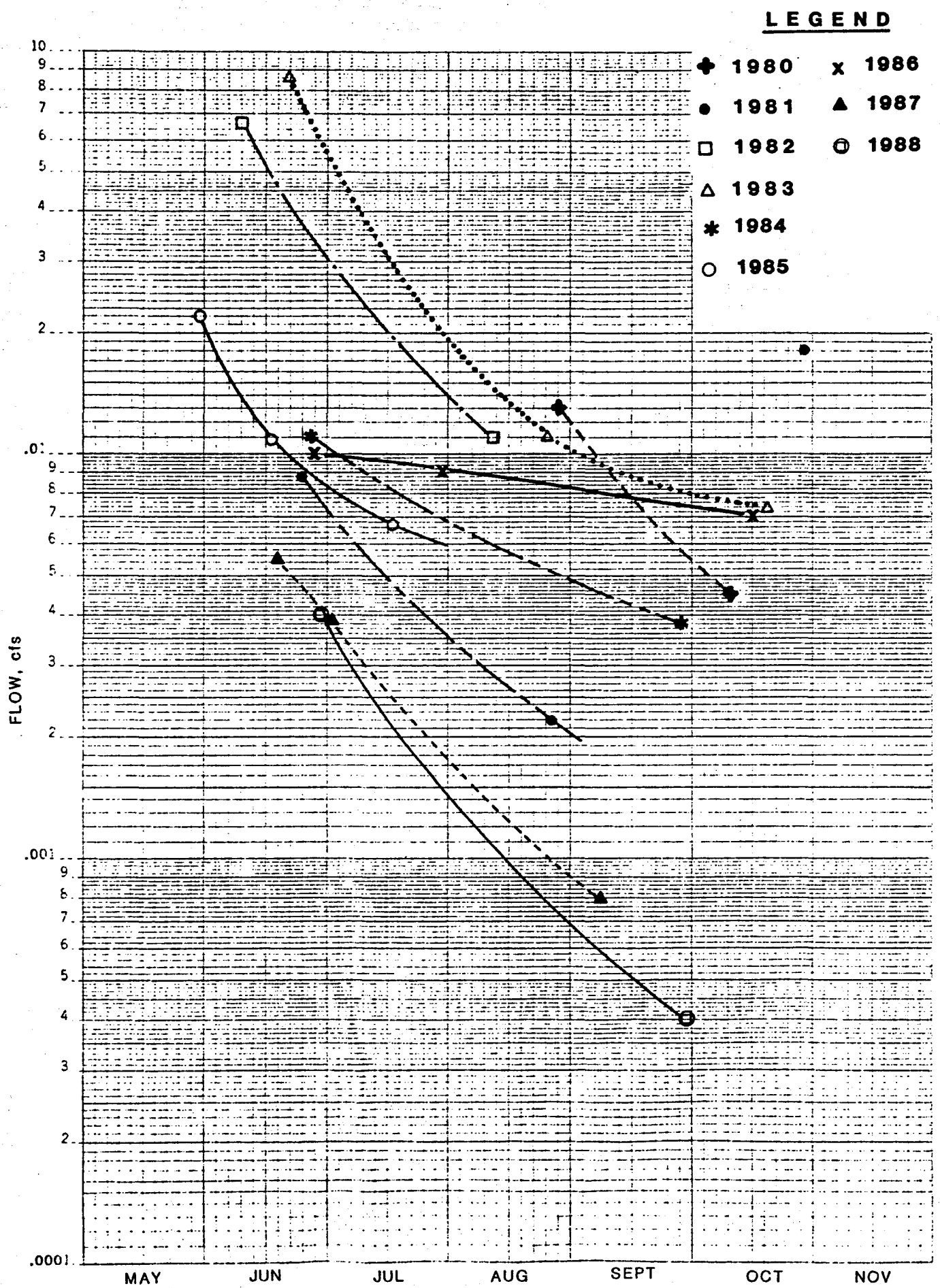

Figure 6. Spring S36-17 Depletion Curve

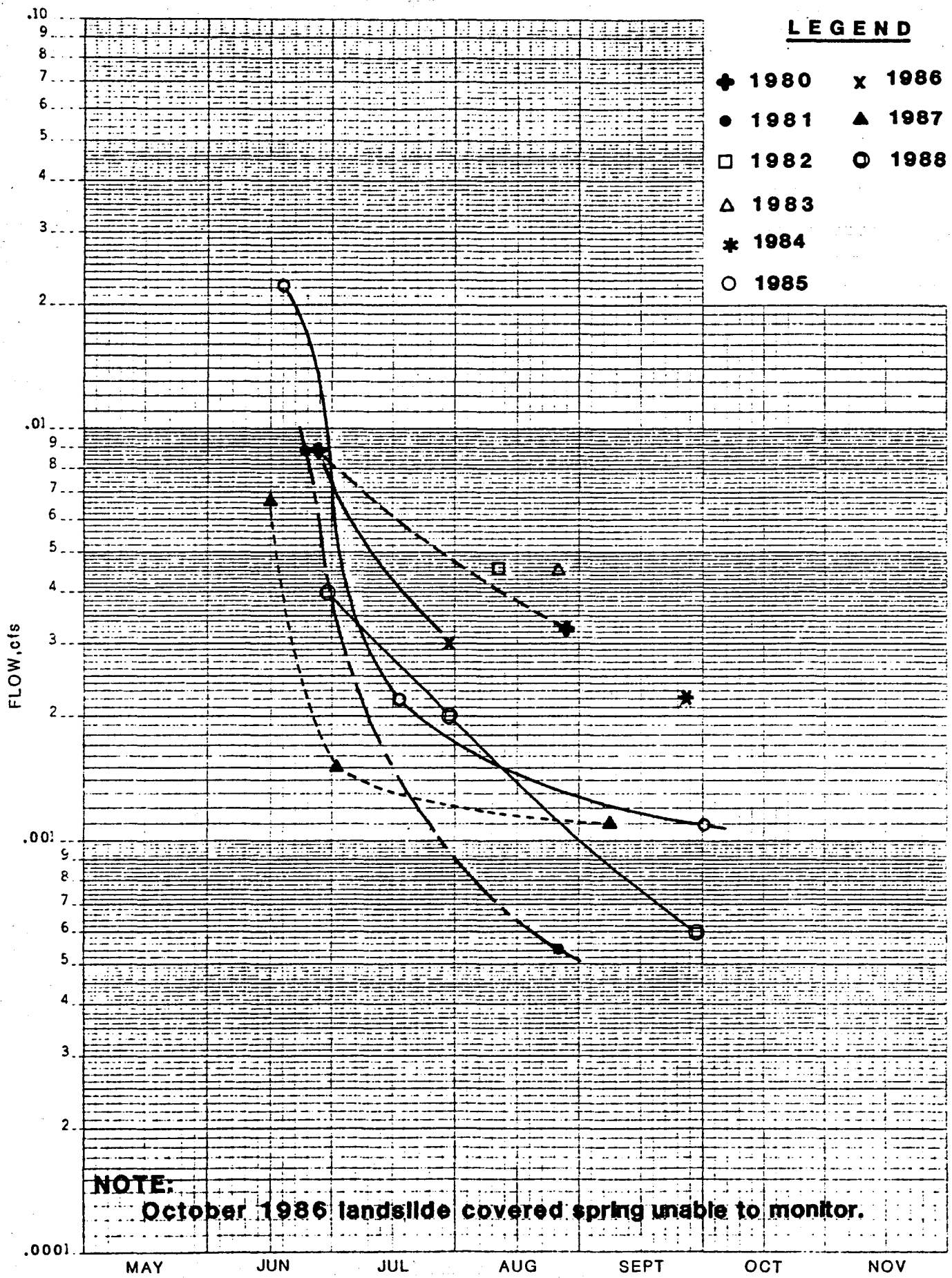

Figure 7. Spring S36-19 Depletion Curve

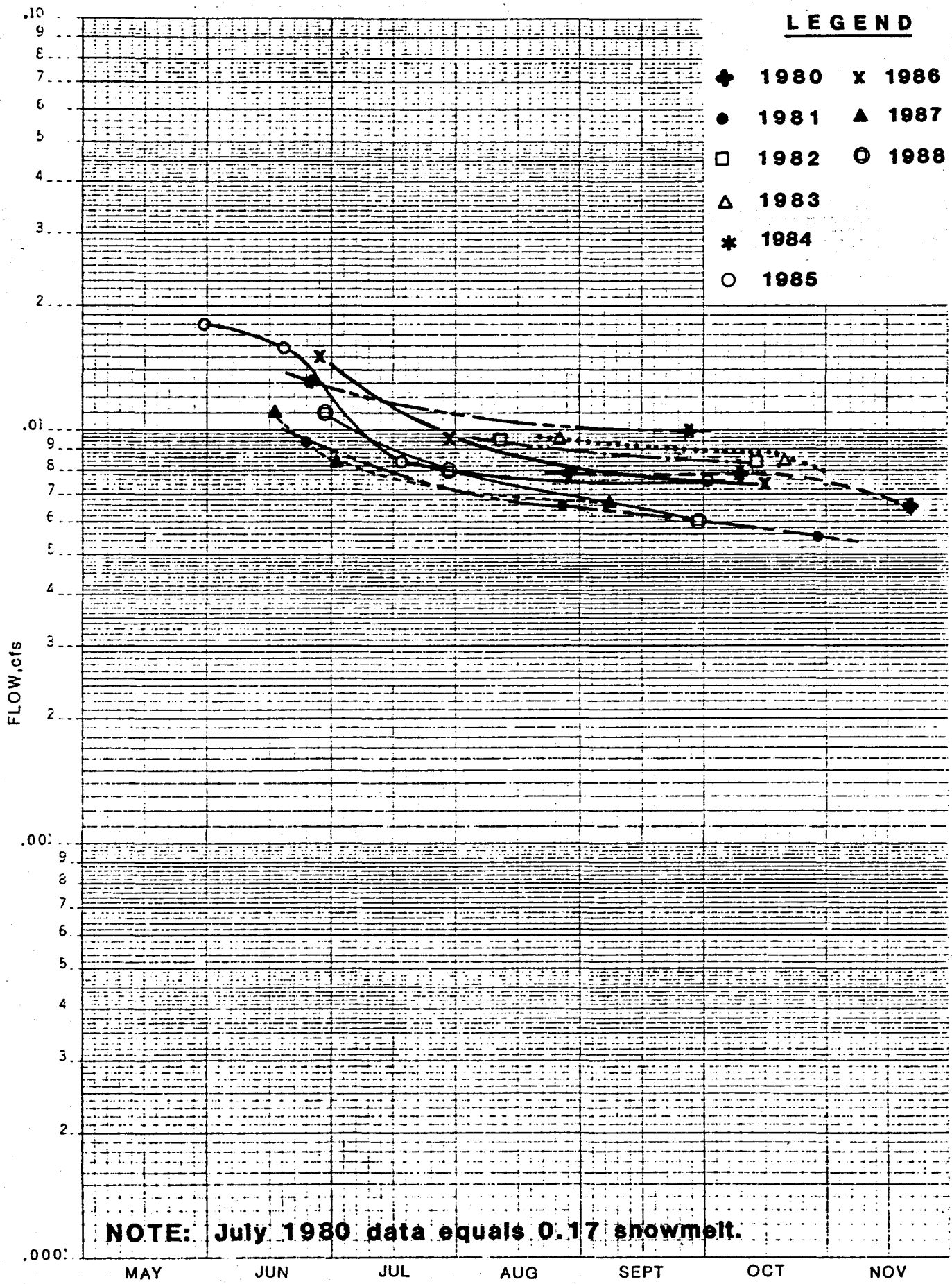

Figure 8. Spring S36-23 Depletion Curve