



US Army Corps
of Engineers
Waterways Experiment
Station

Technical Report HL-93-3
May 1993

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Demonstration Erosion Control Project Monitoring Program

Fiscal Year 1992 Report

Volume III: Appendix B Long Creek Watershed Profiles and Cross Sections

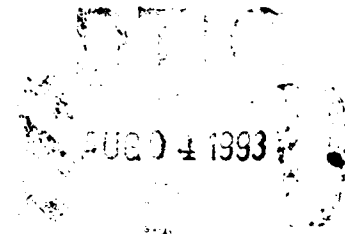
by Terry N. Waller, Lisa C. Hubbard
Hydraulics Laboratory

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Prepared for U.S. Army Engineer District, Vicksburg

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Demonstration Erosion Control Project Monitoring Program

Fiscal Year 1992 Report

Volume III: Appendix B Long Creek Watershed Profiles and Cross Sections

by Terry N. Waller, Lisa C. Hubbard

Hydraulics Laboratory

U.S. Army Corps of Engineers
Waterways Experiment Station
3909 Halls Ferry Road
Vicksburg, MS 39180-6199

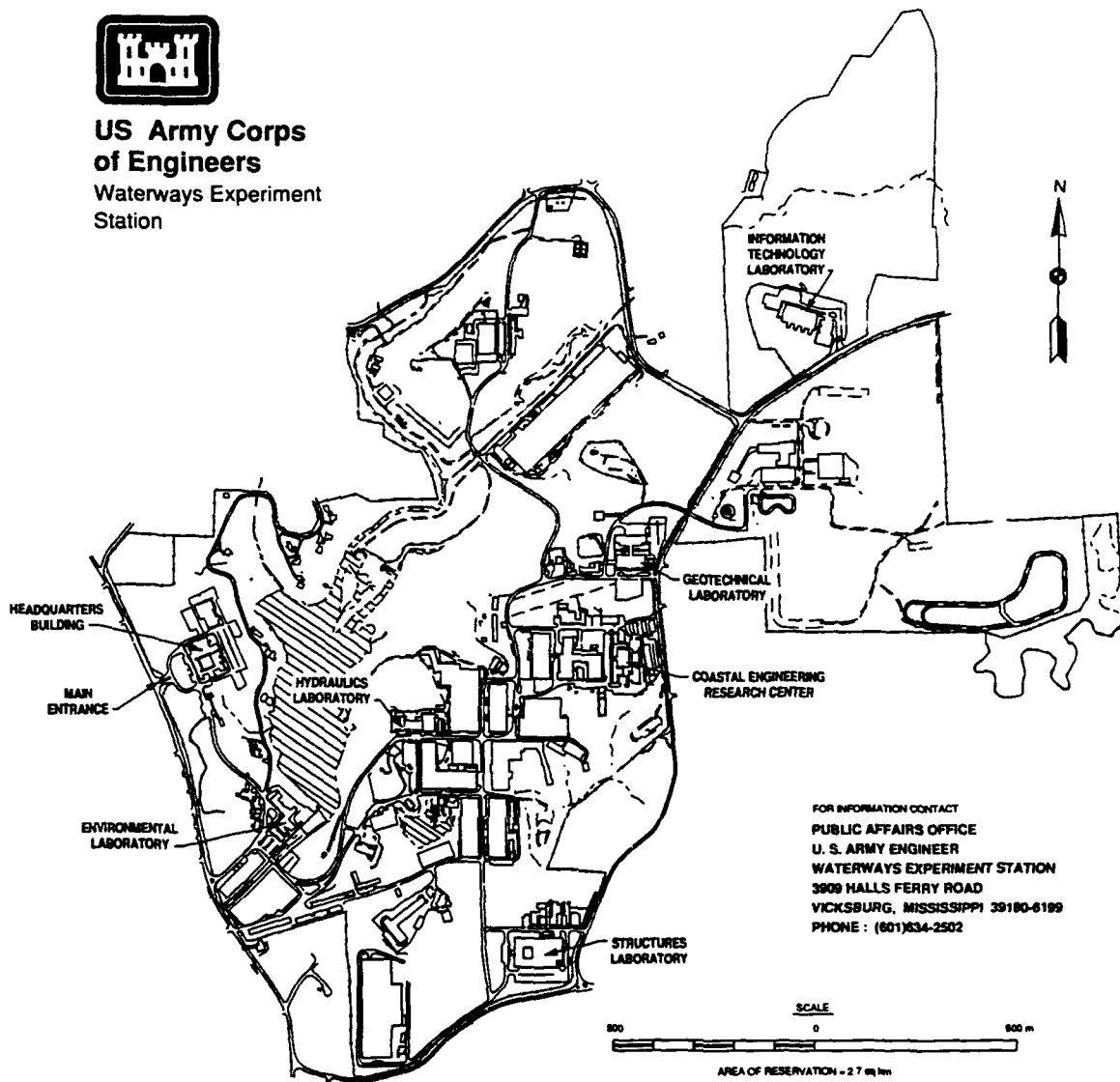
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Station



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Appendix B

Long Creek Watershed Profiles and Cross Sections

Channel Profiles

Comparisons of channel profiles in the Long Creek watershed from 1985 and 1991 are shown in Plates B1-B19. The following channels are represented in these profile plots:

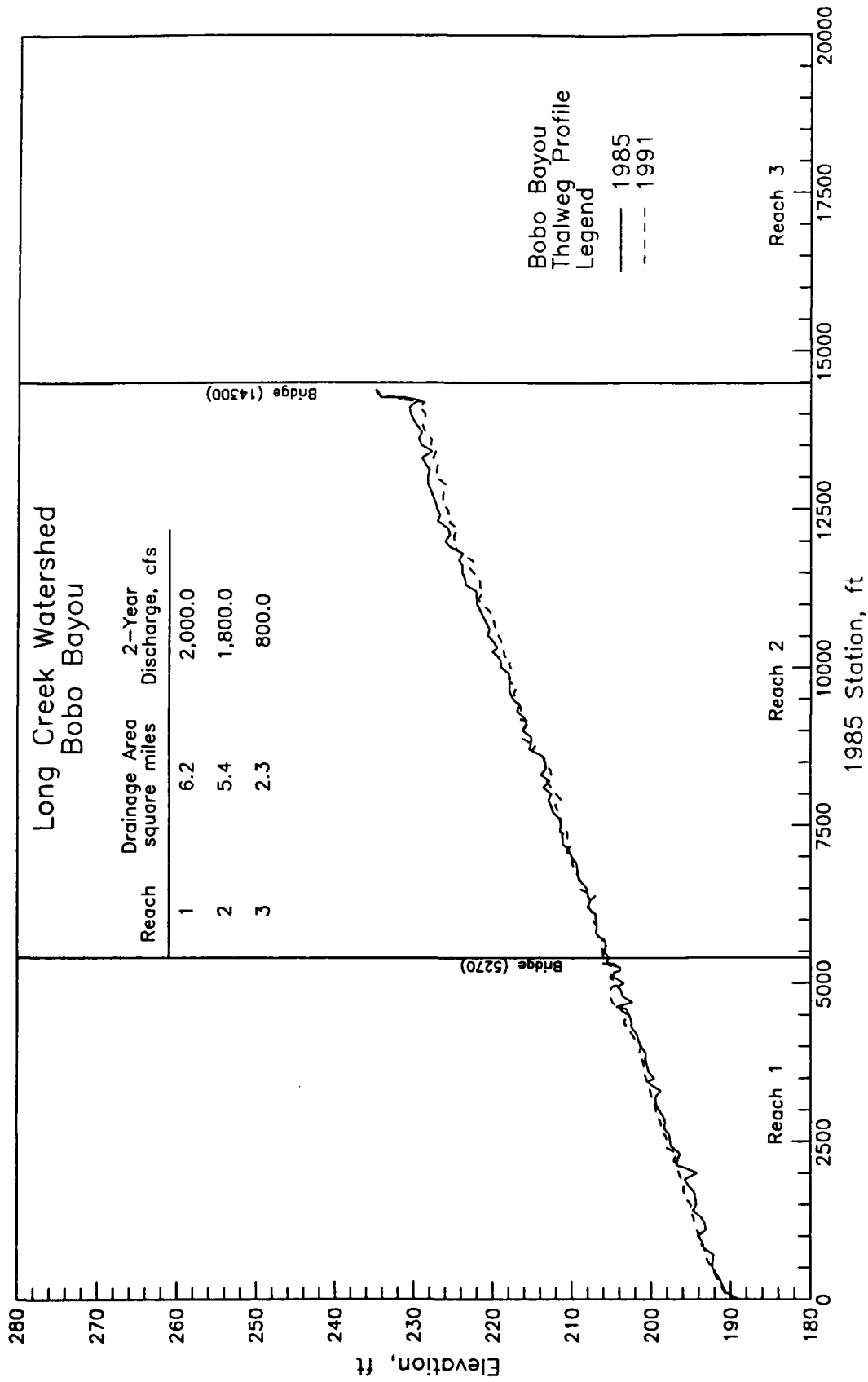
Creek	Plate
Bobo	B1
Caney	B2, B3
Goodwin	B4, B5
Goodwin Tributary #2	B6
Goodwin Tributary #3	B7
Goodwin Tributary #4	B8
Goodwin Tributary #4E	B9
Hurt	B10, B11
Johnson	B12-B14
Long	B15, B16
Peters	B17, B18
Pope Tributary	B19

Channel Cross Sections

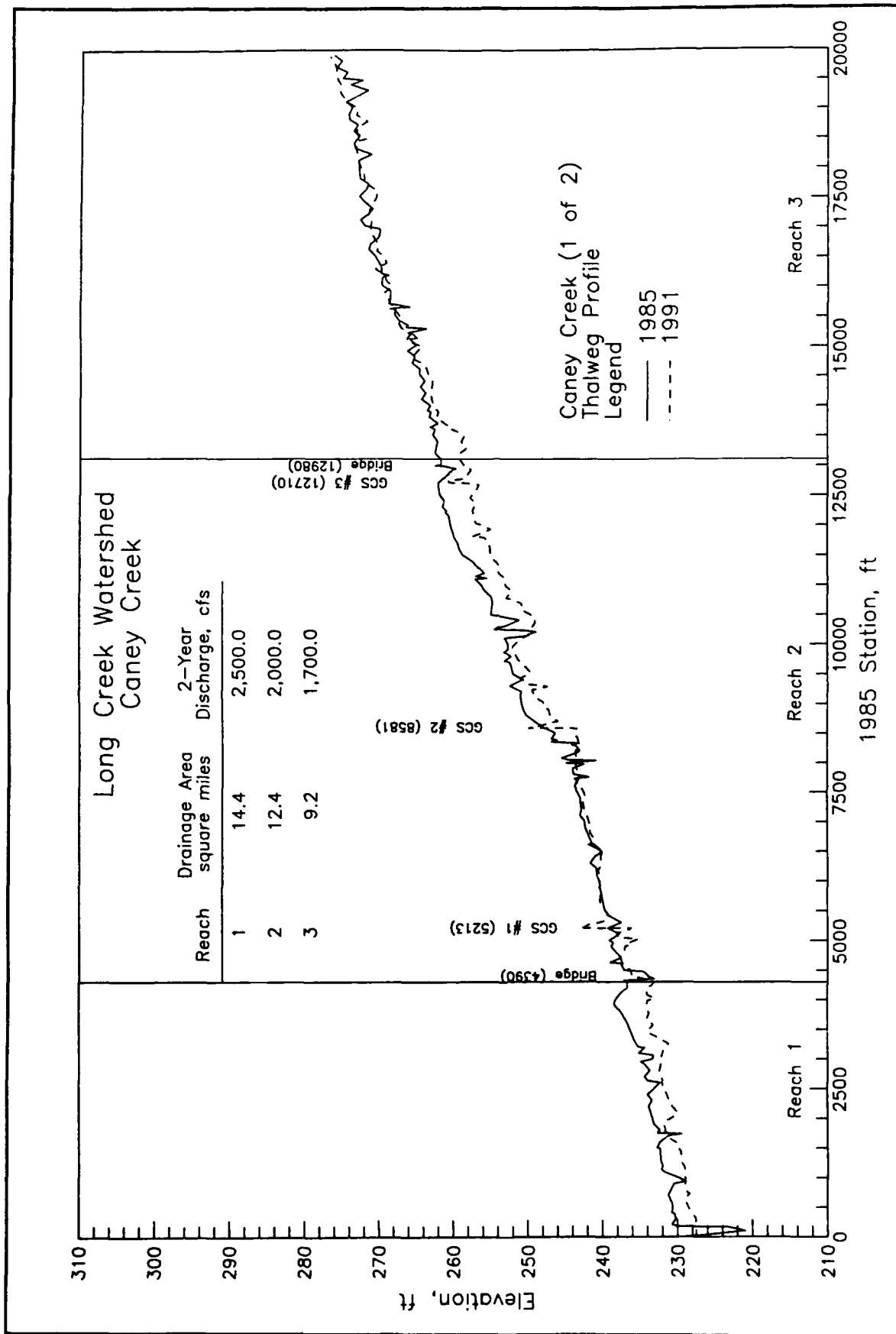
Comparisons of channel cross sections in the Long Creek watershed from 1985 and 1991 are shown in Plates B20-B103. The following channels are represented in these cross-section plots:

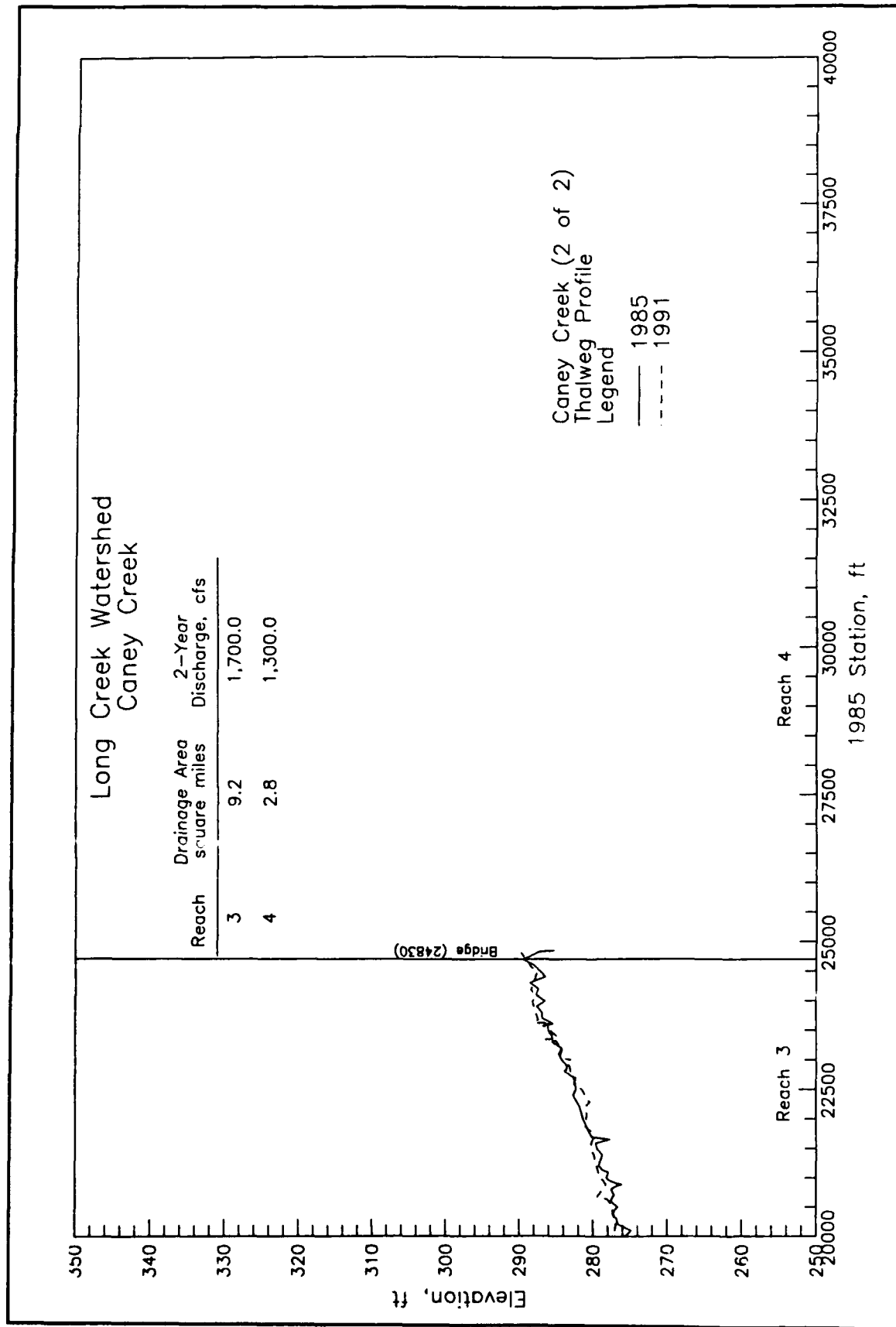
Long Creek Watershed Bobo Bayou

Reach	Drainage Area square miles	2-Year Discharge, cfs
1	6.2	2,000.0
2	5.4	1,800.0
3	2.3	800.0



Bobo Bayou
Thalweg Profile
Legend
—— 1985
---- 1991





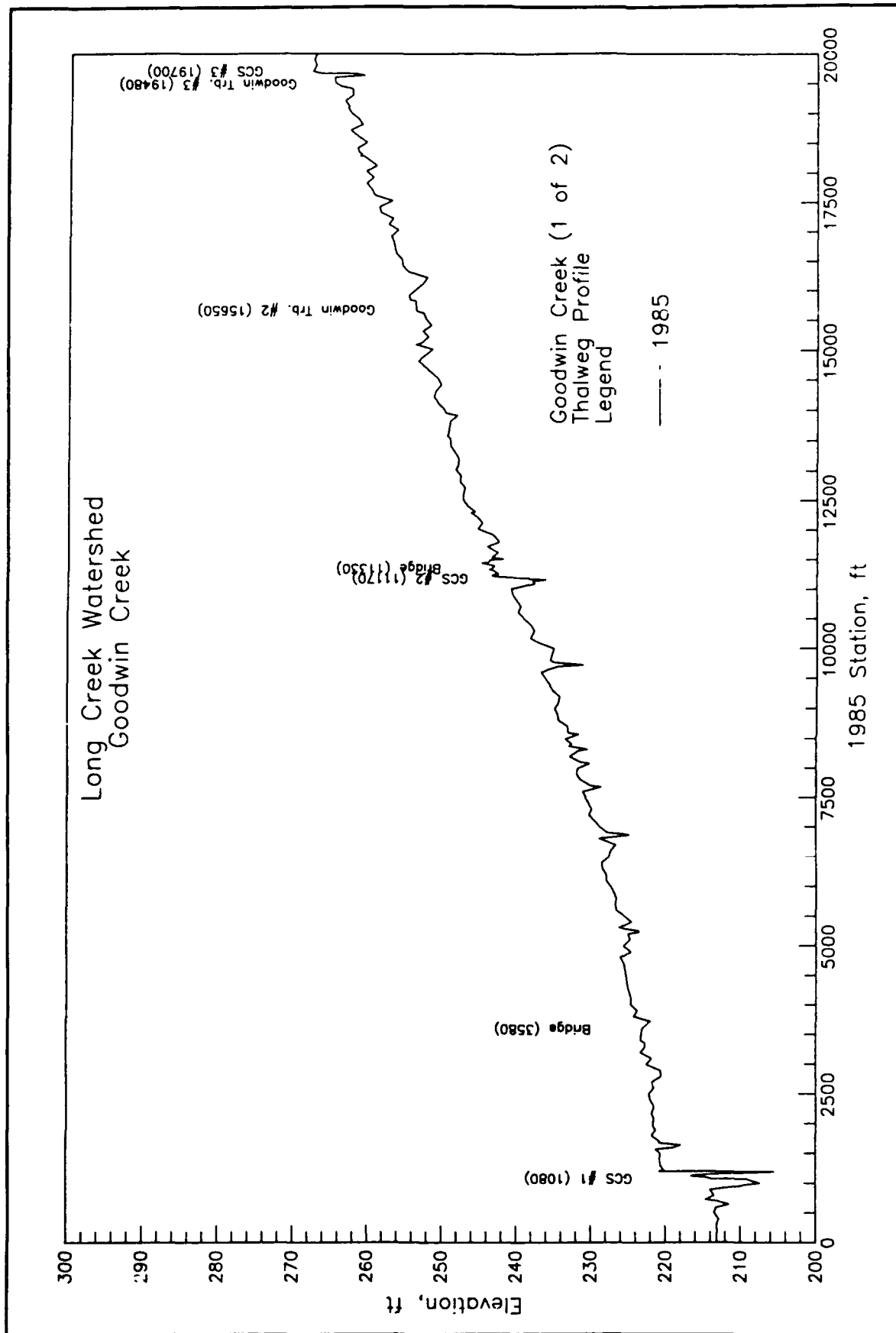
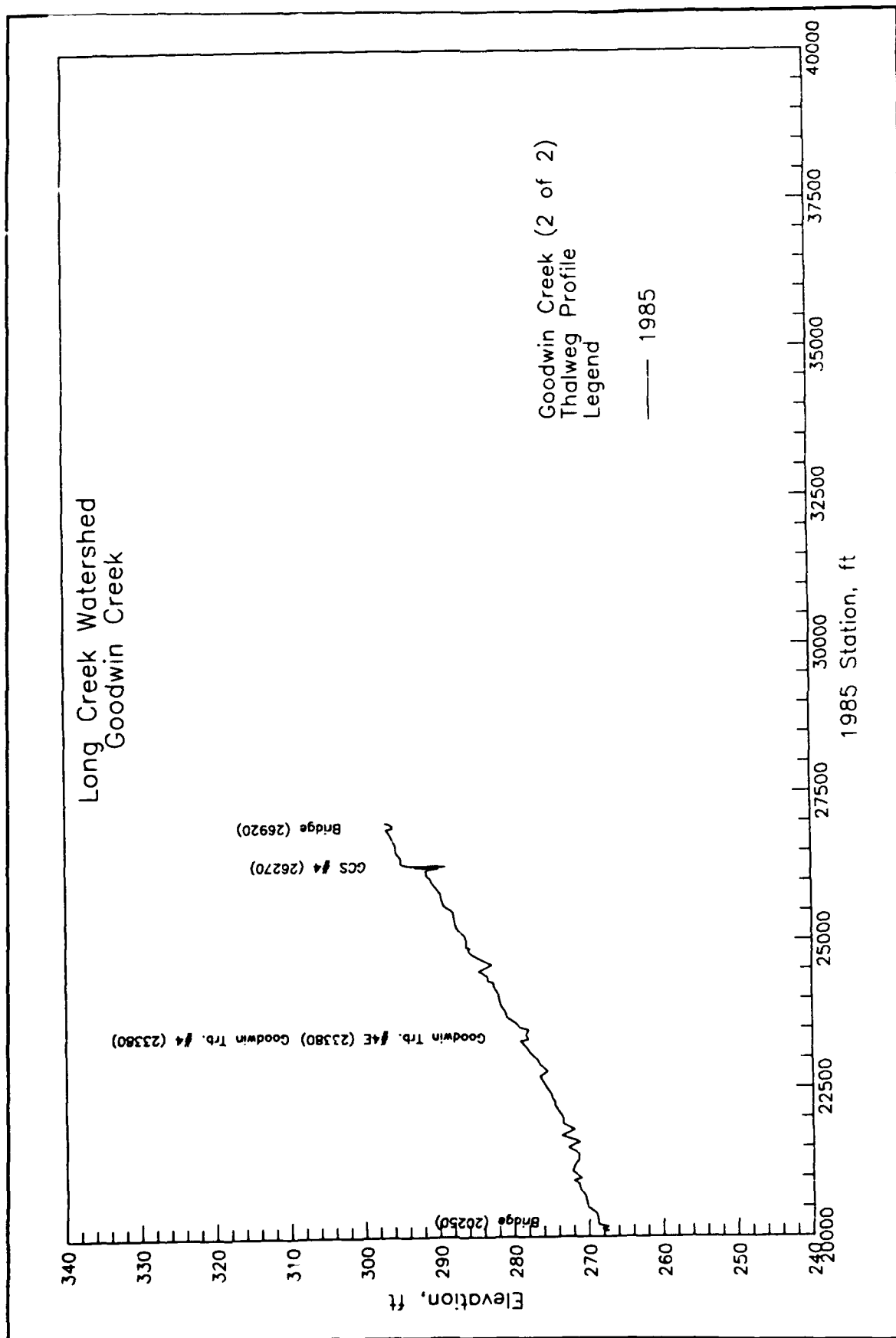


PLATE B4



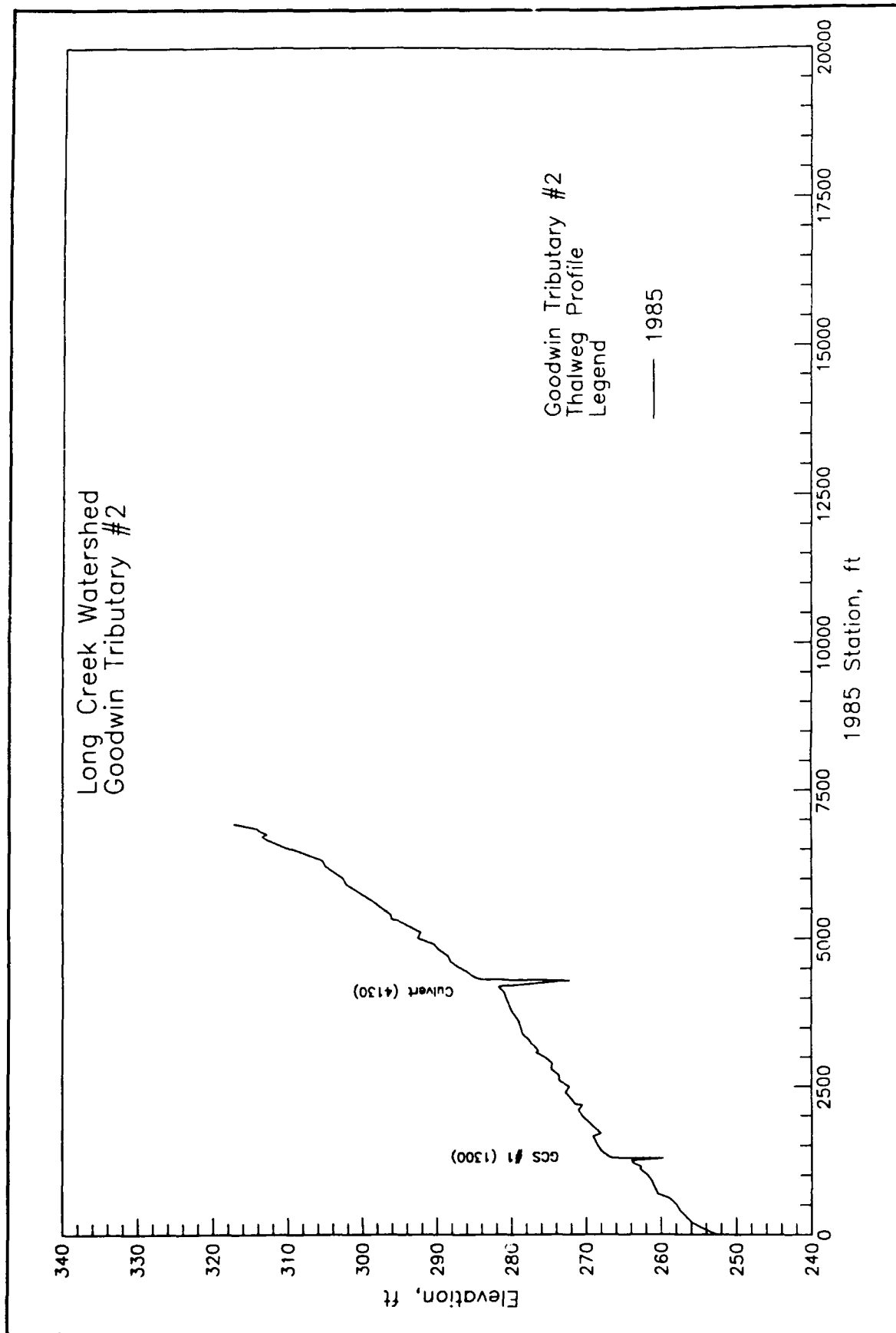
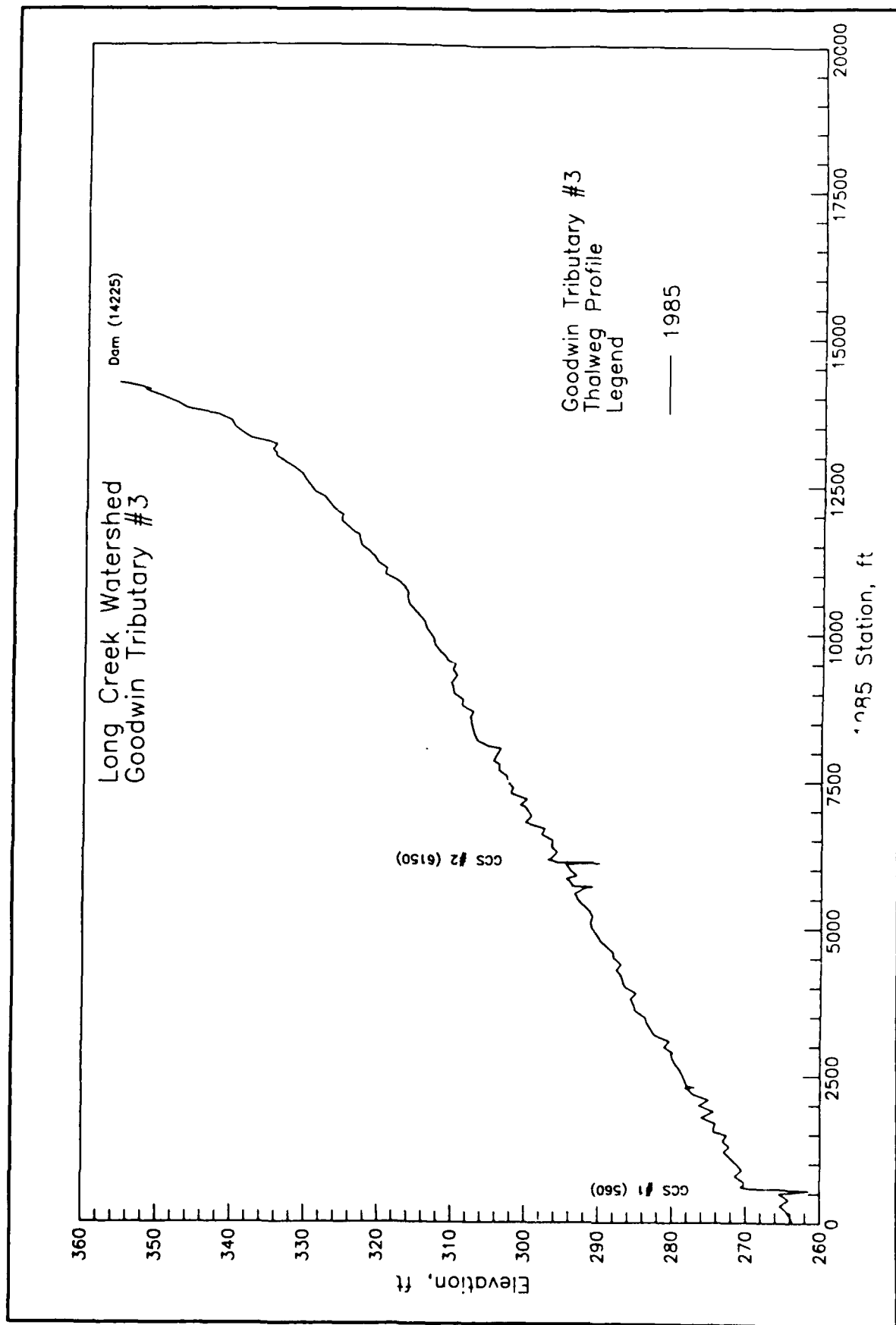


PLATE B6



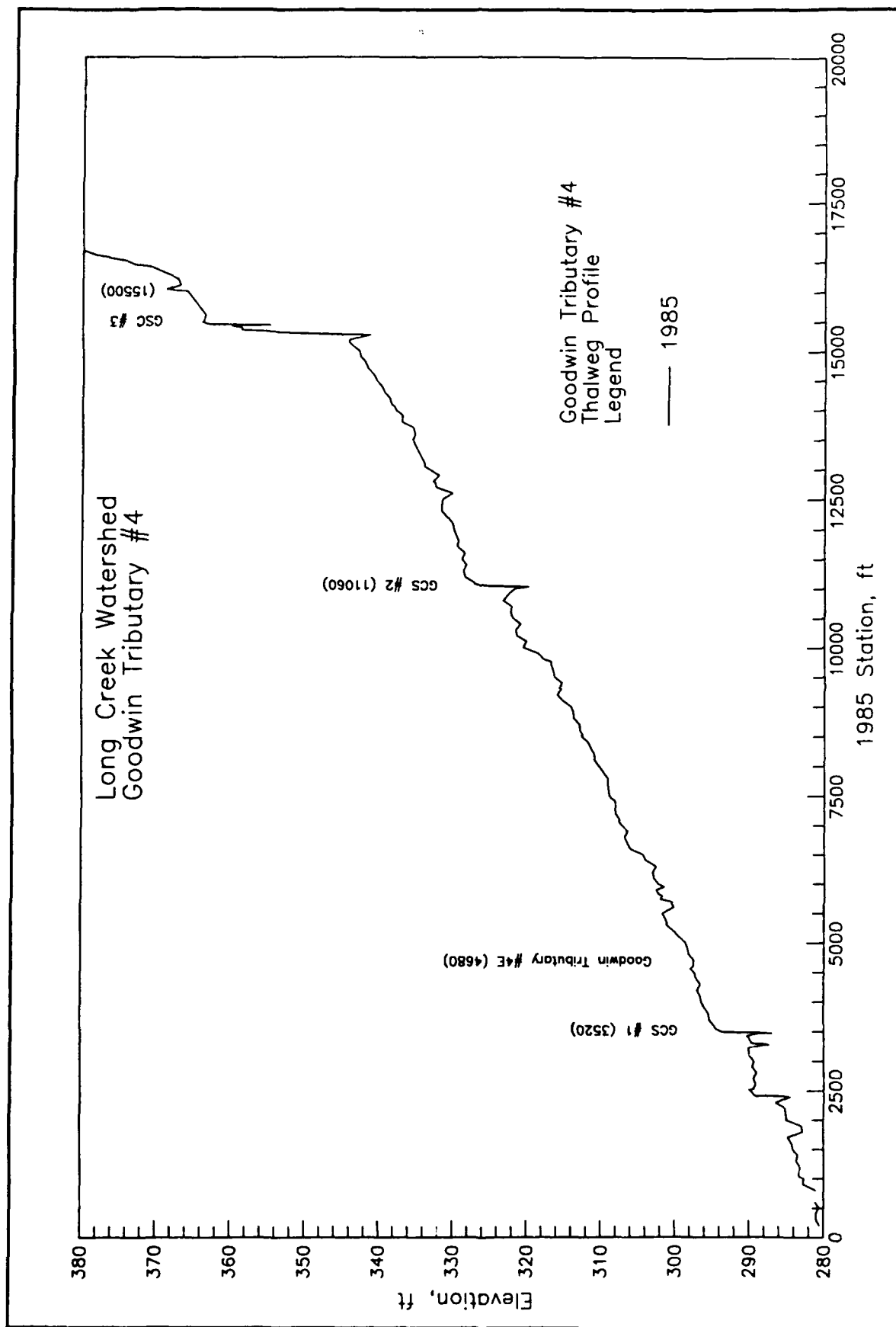


PLATE B8

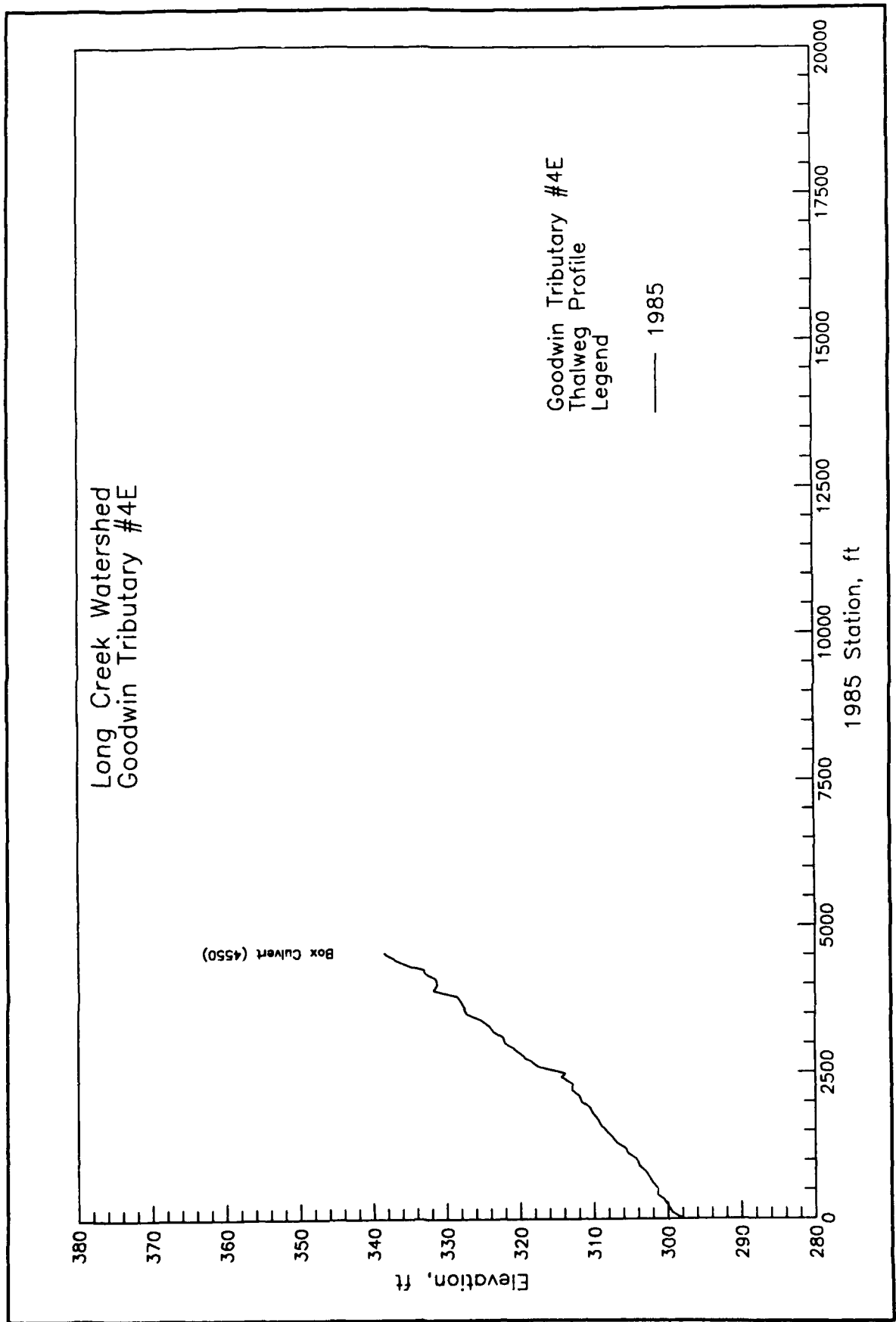
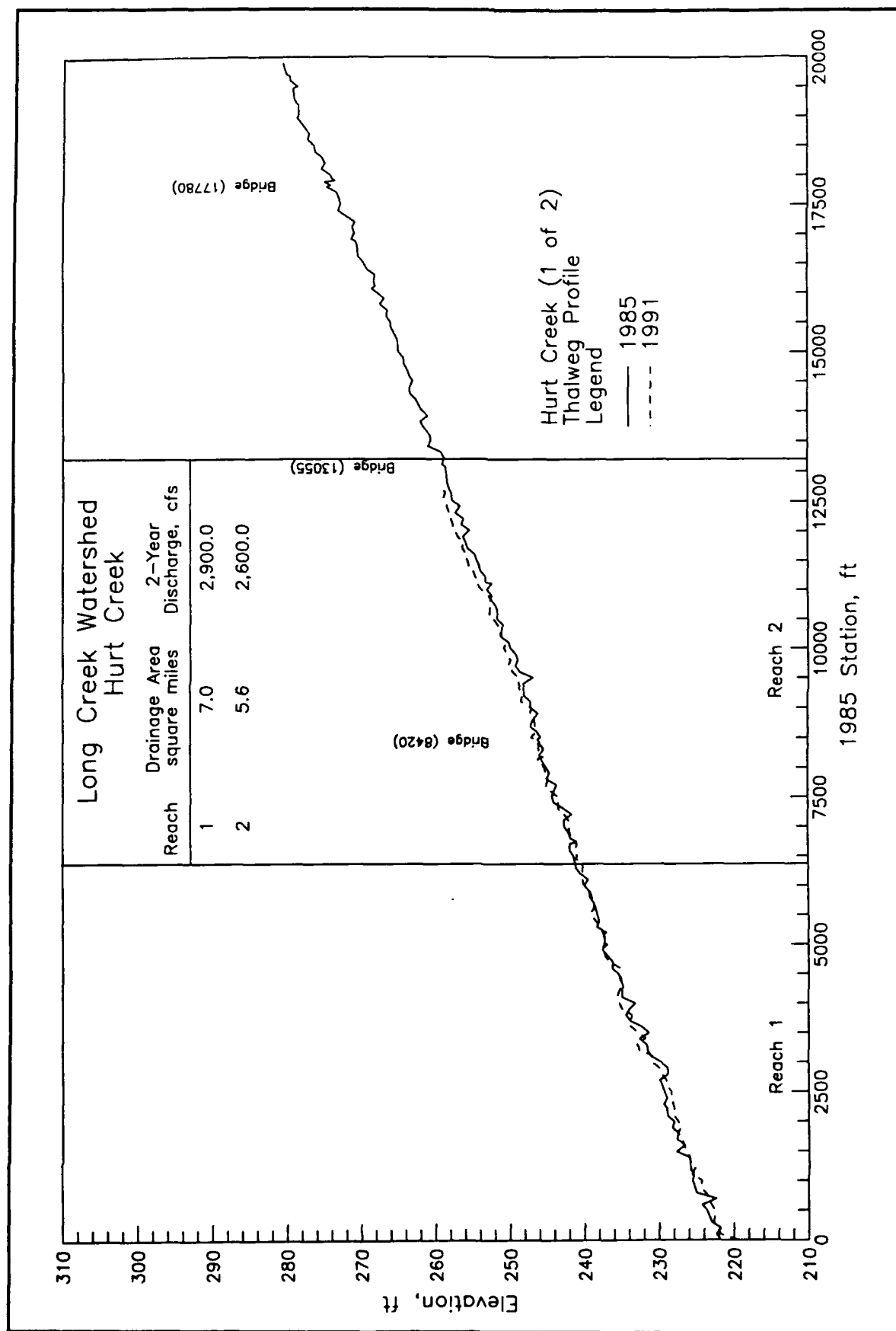


PLATE B10



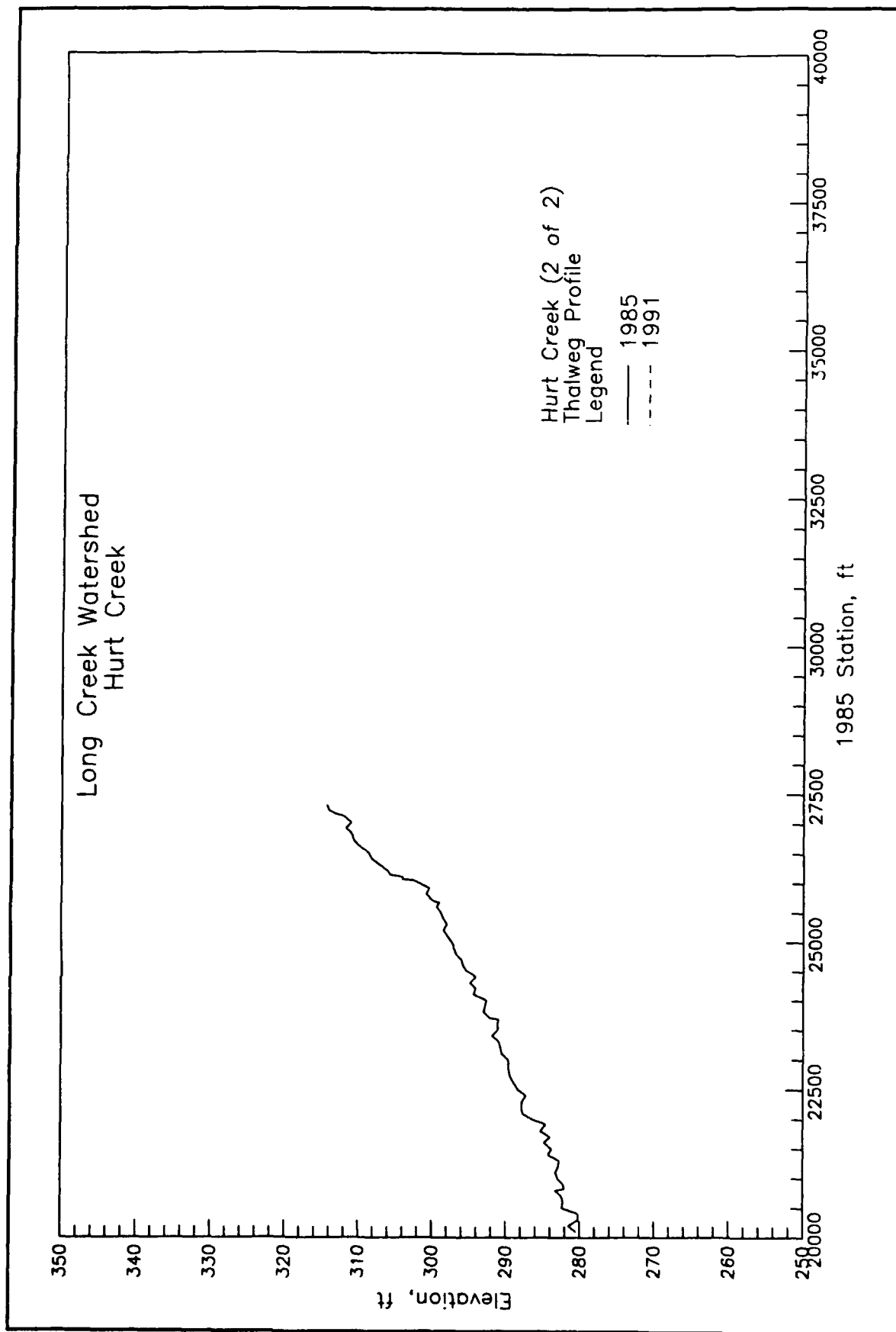
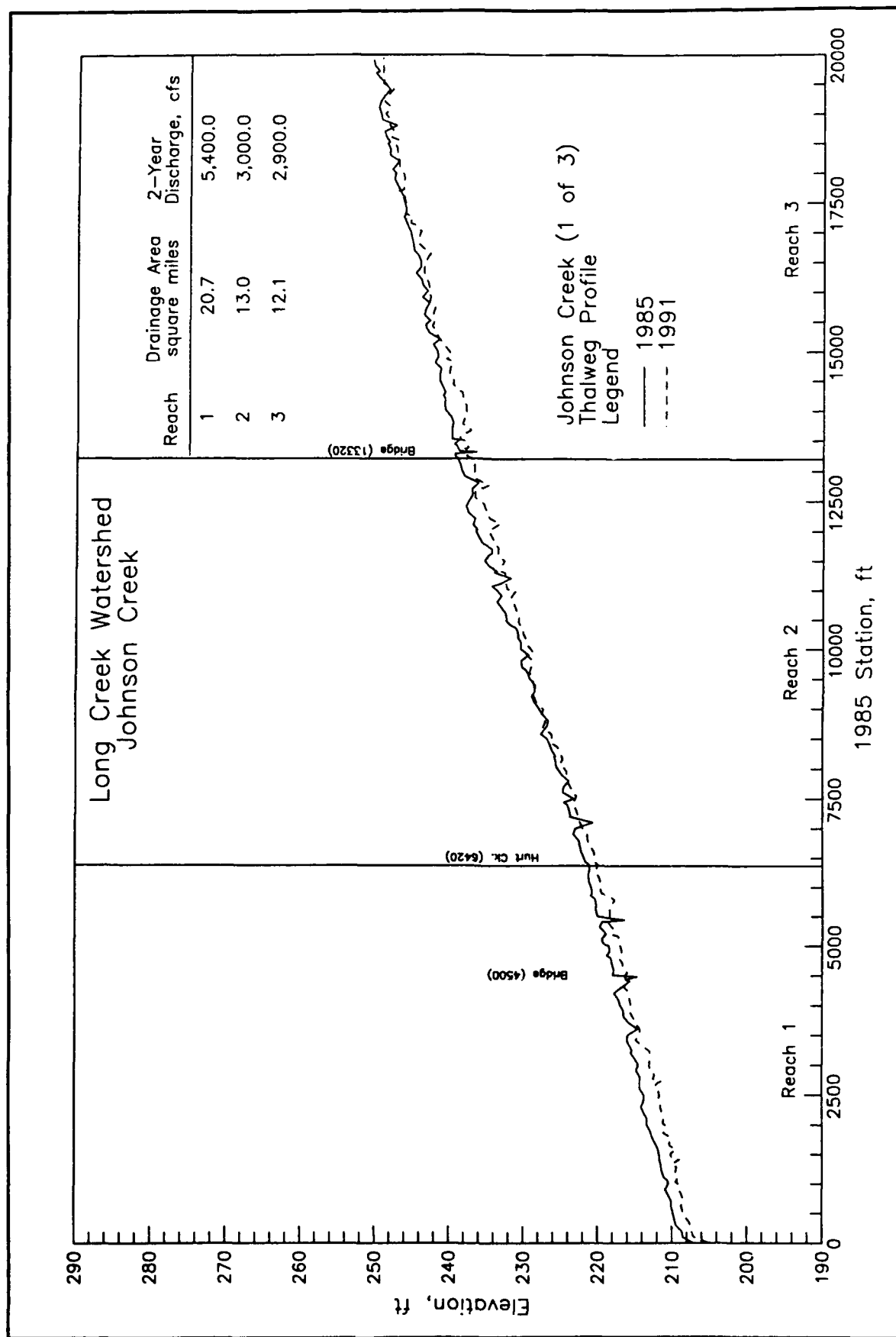
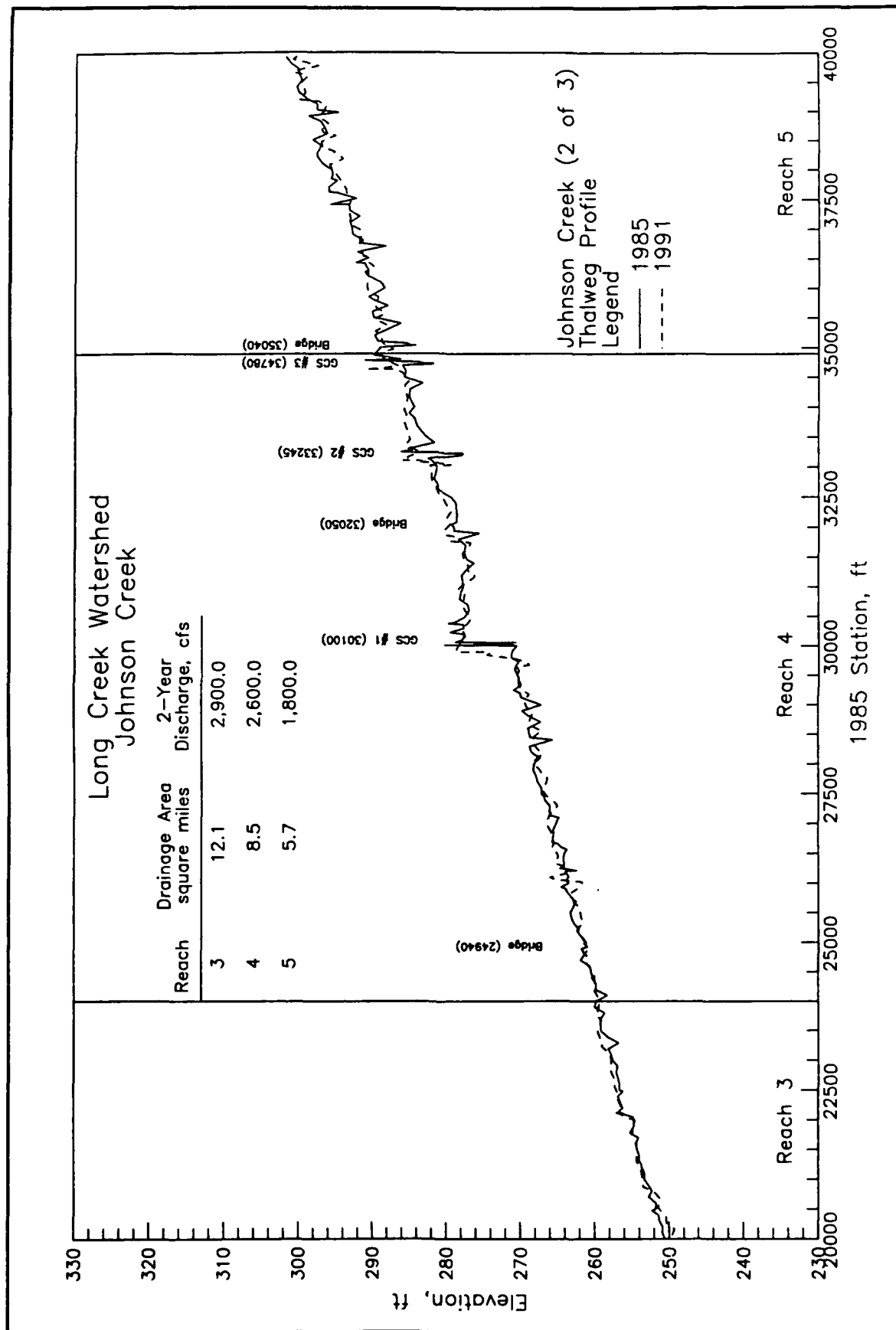
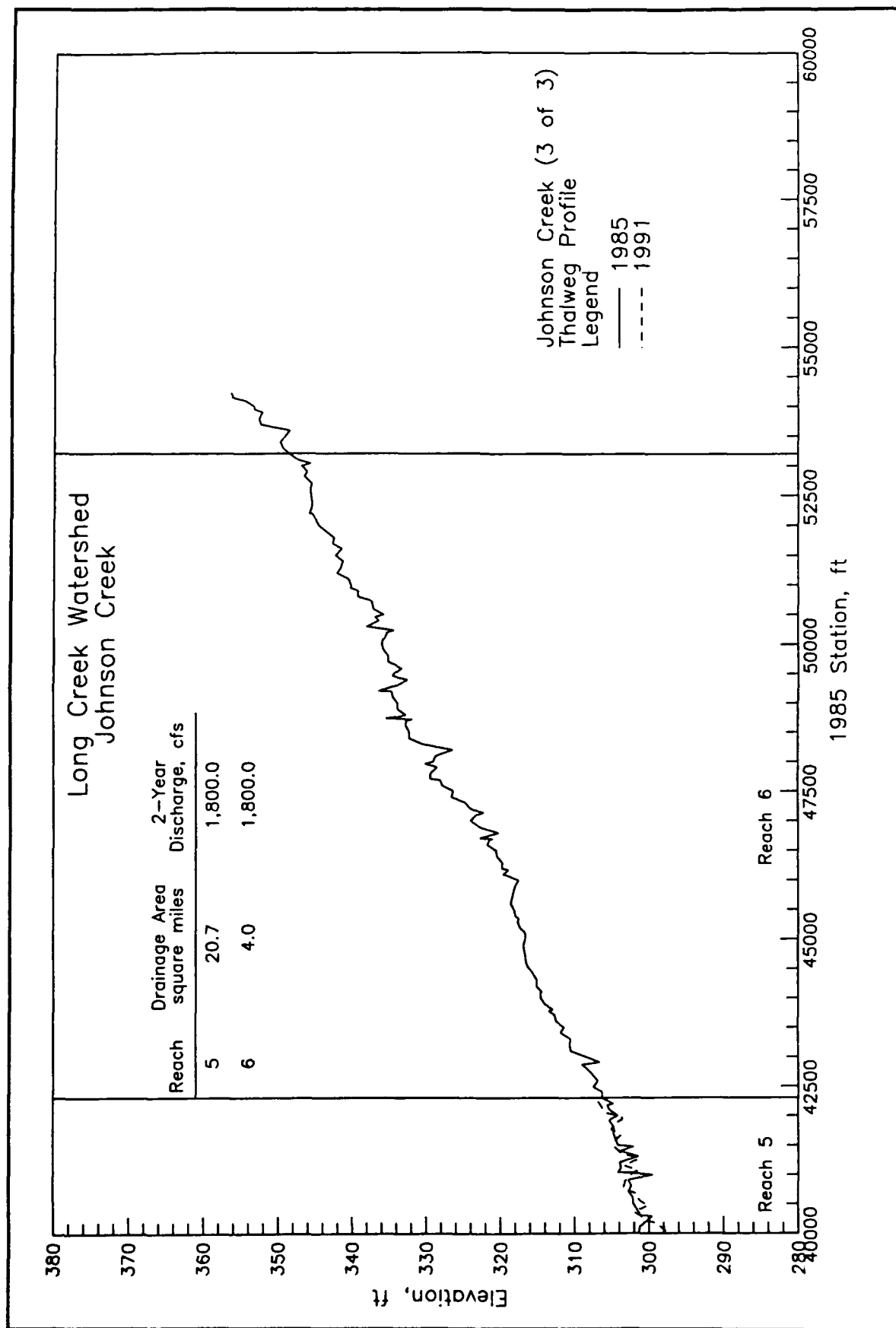


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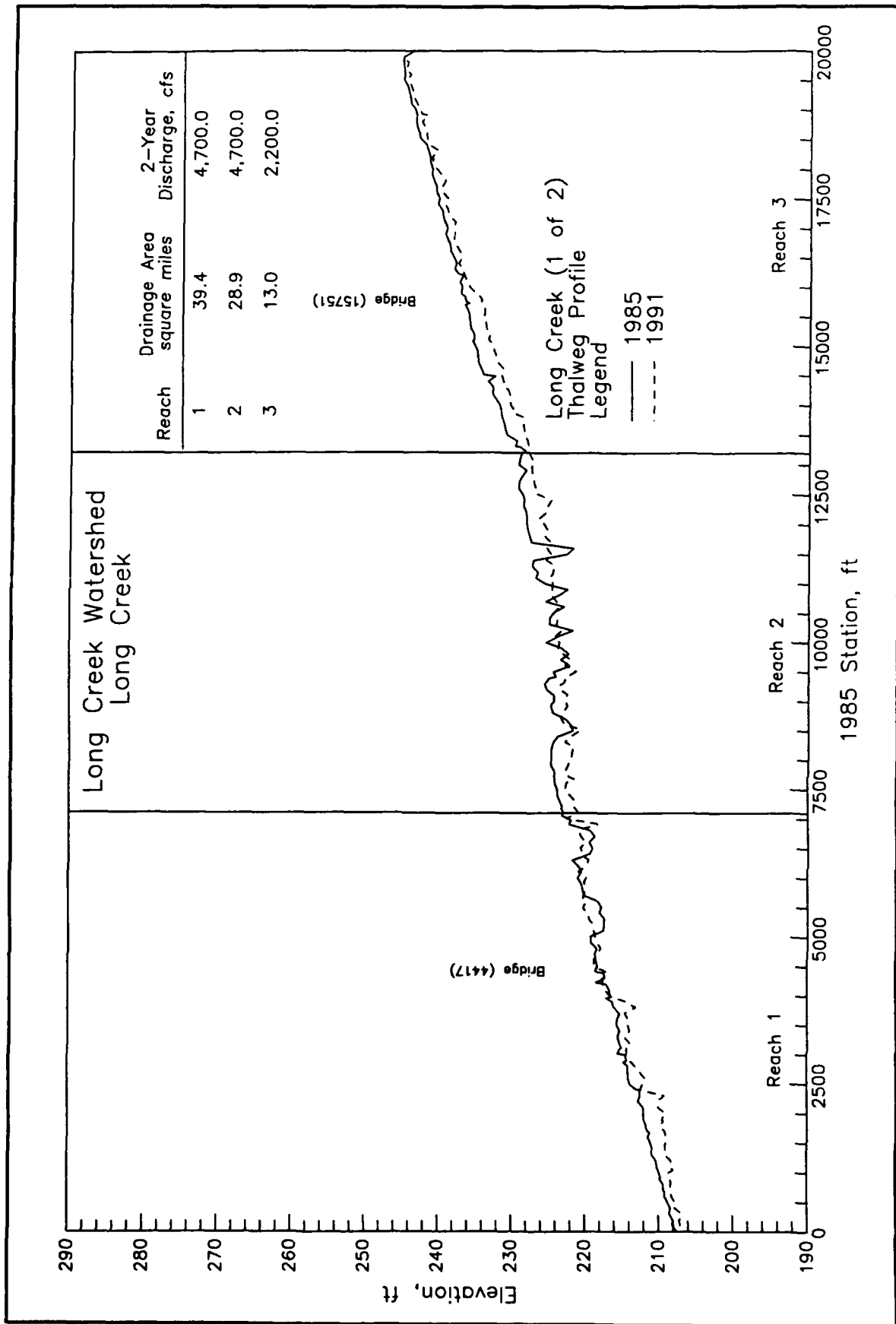
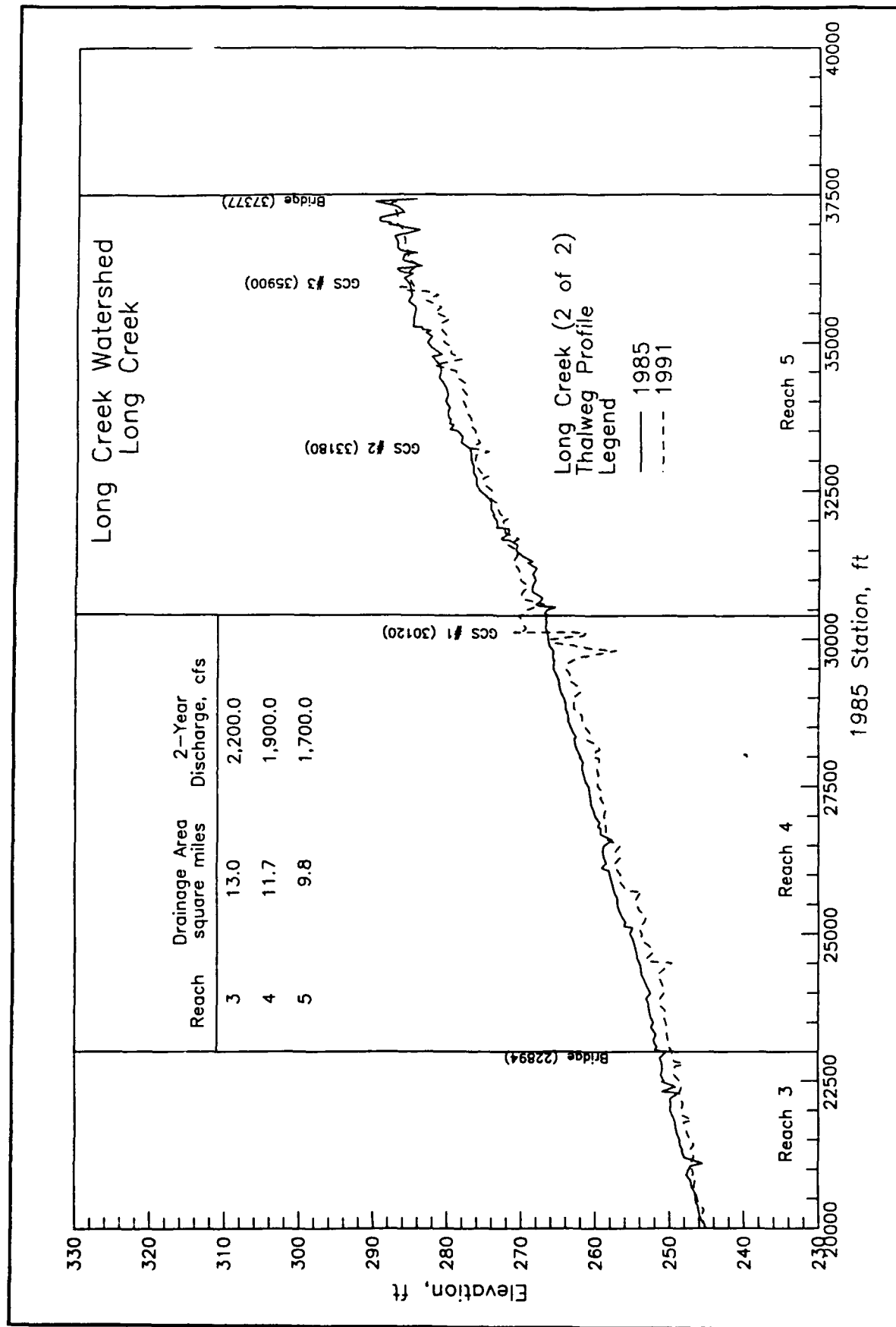


PLATE B15

PLATE B16



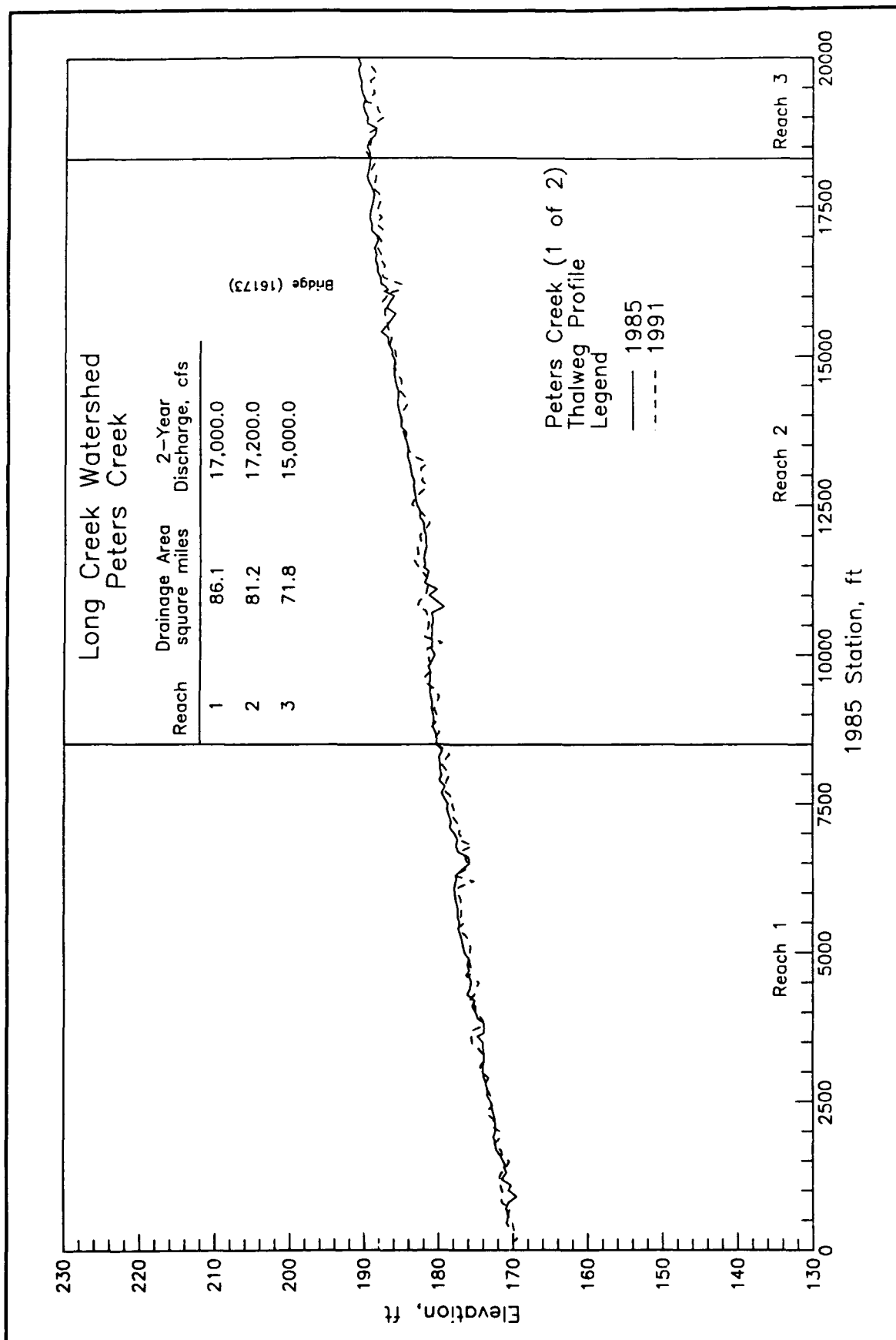
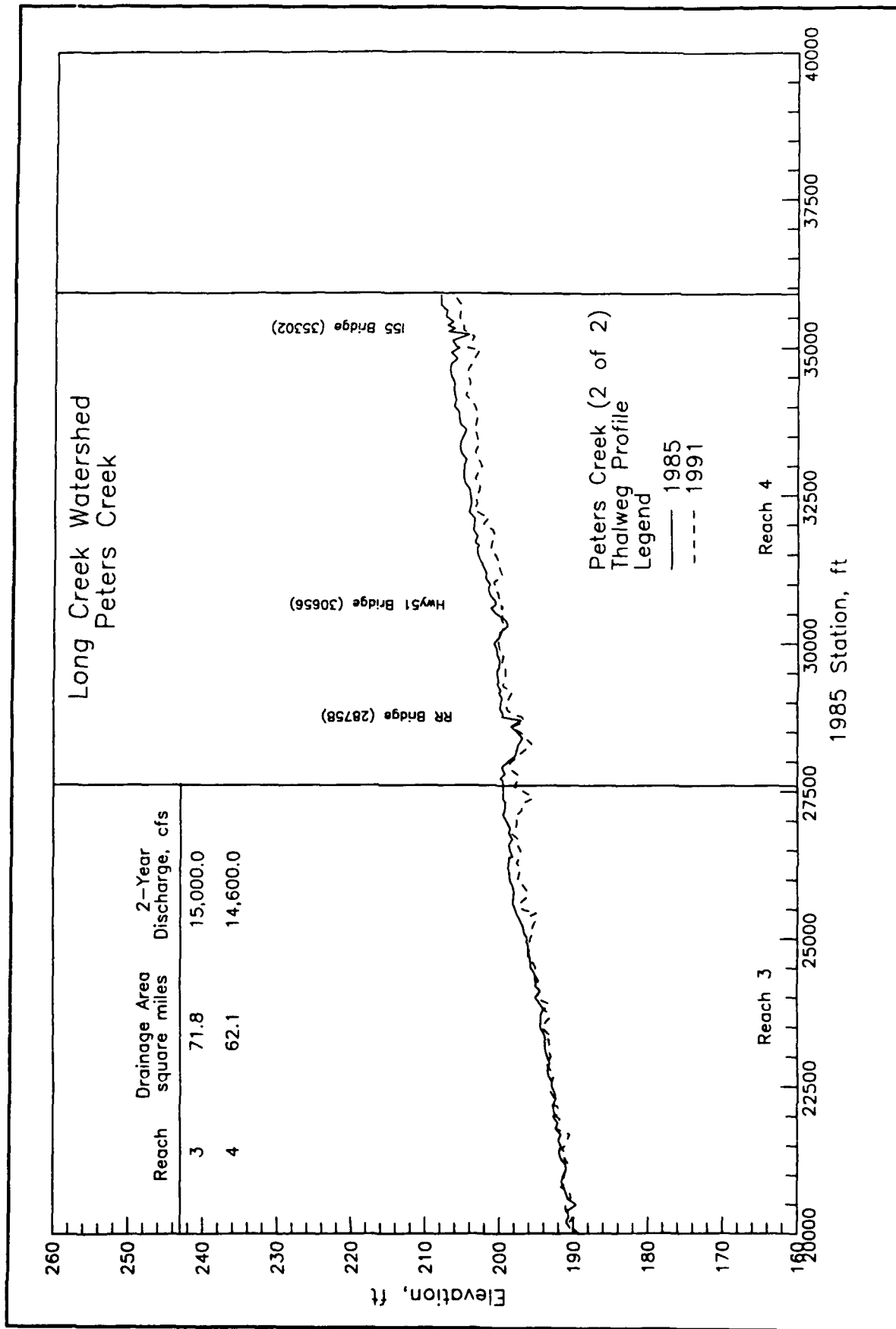


PLATE B18



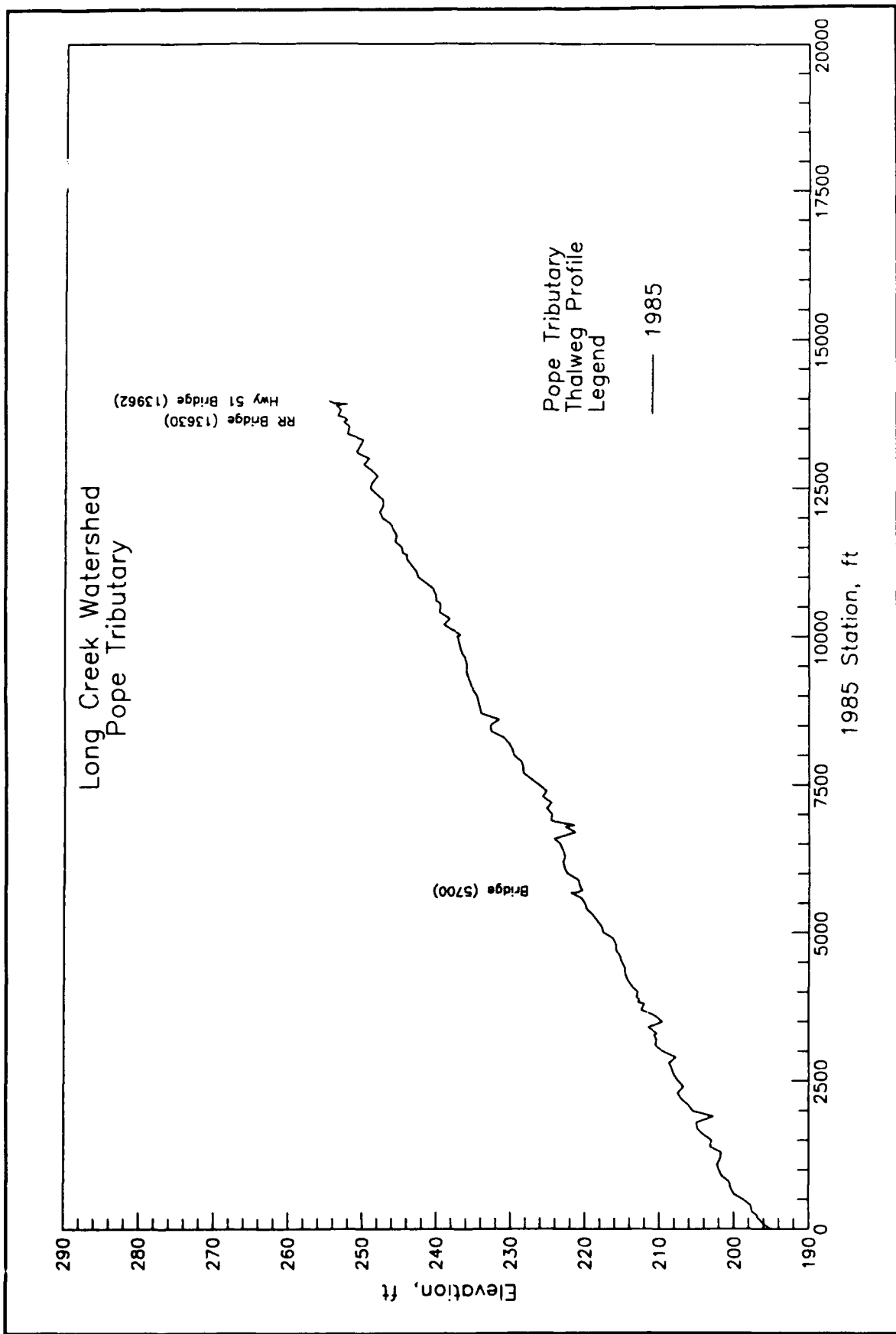
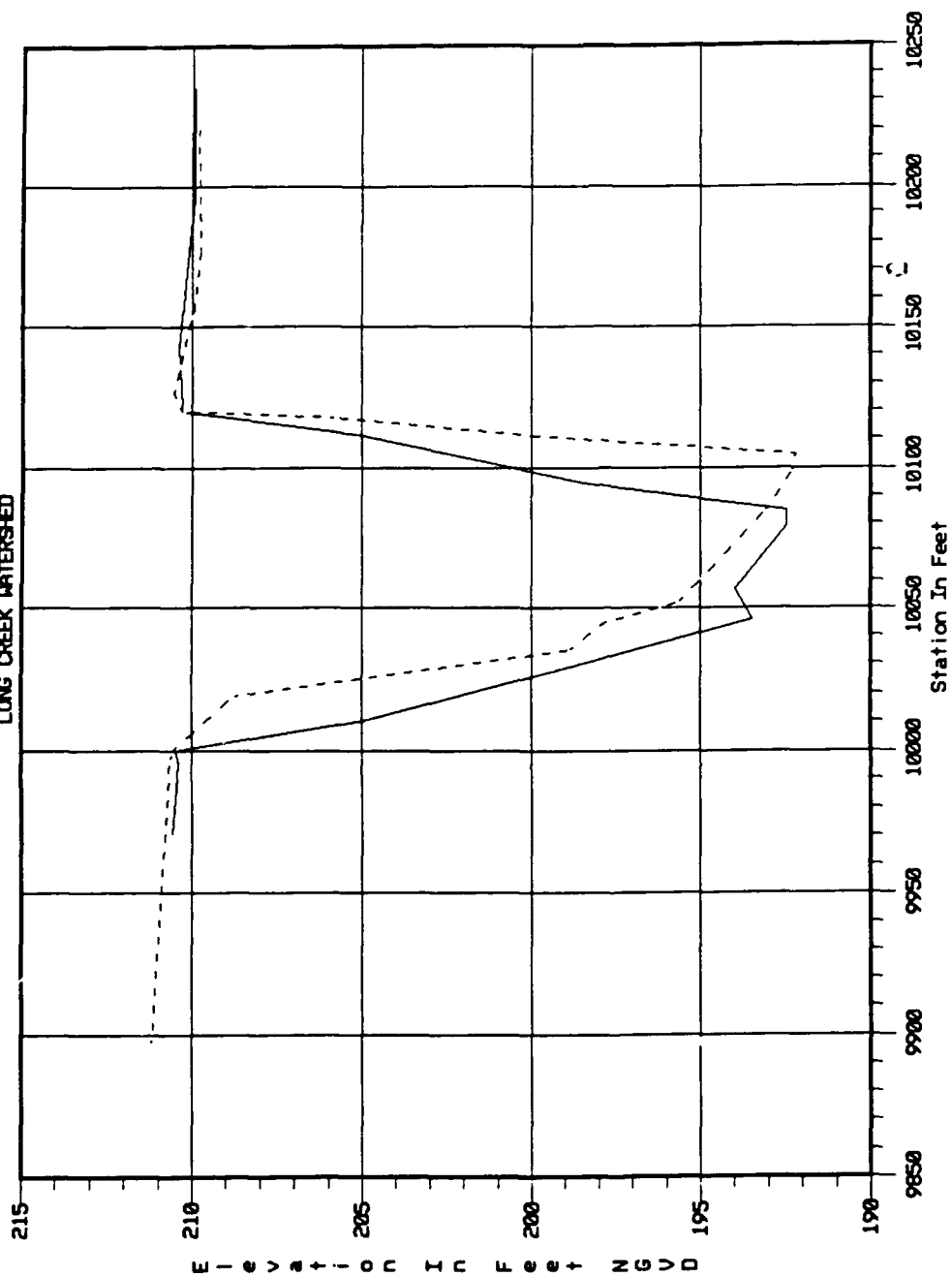


PLATE B19

LONG CREEK WATERSHED



BOBO 1985 XSEC 500.0
BOBO 1991 XSEC 5.00

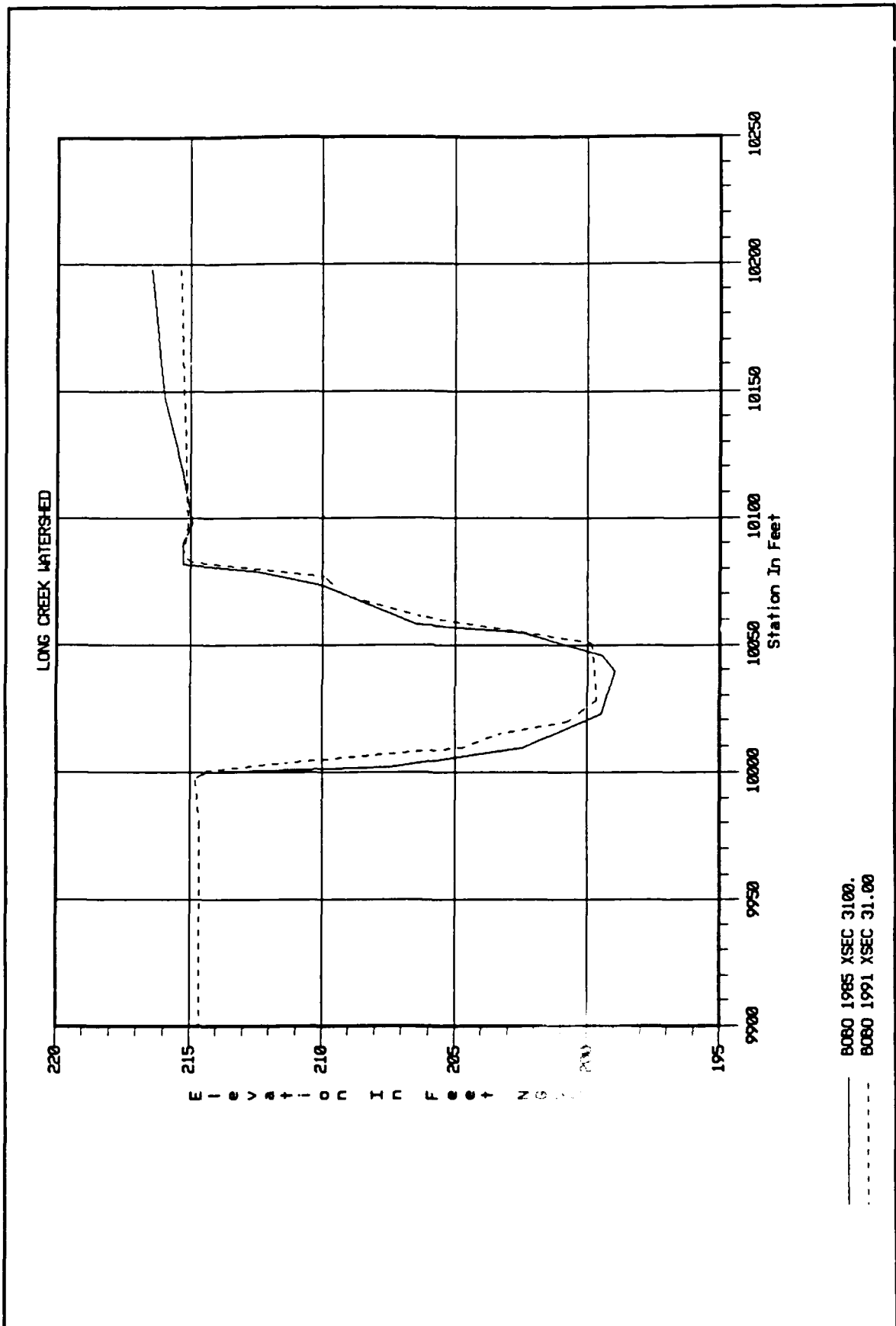
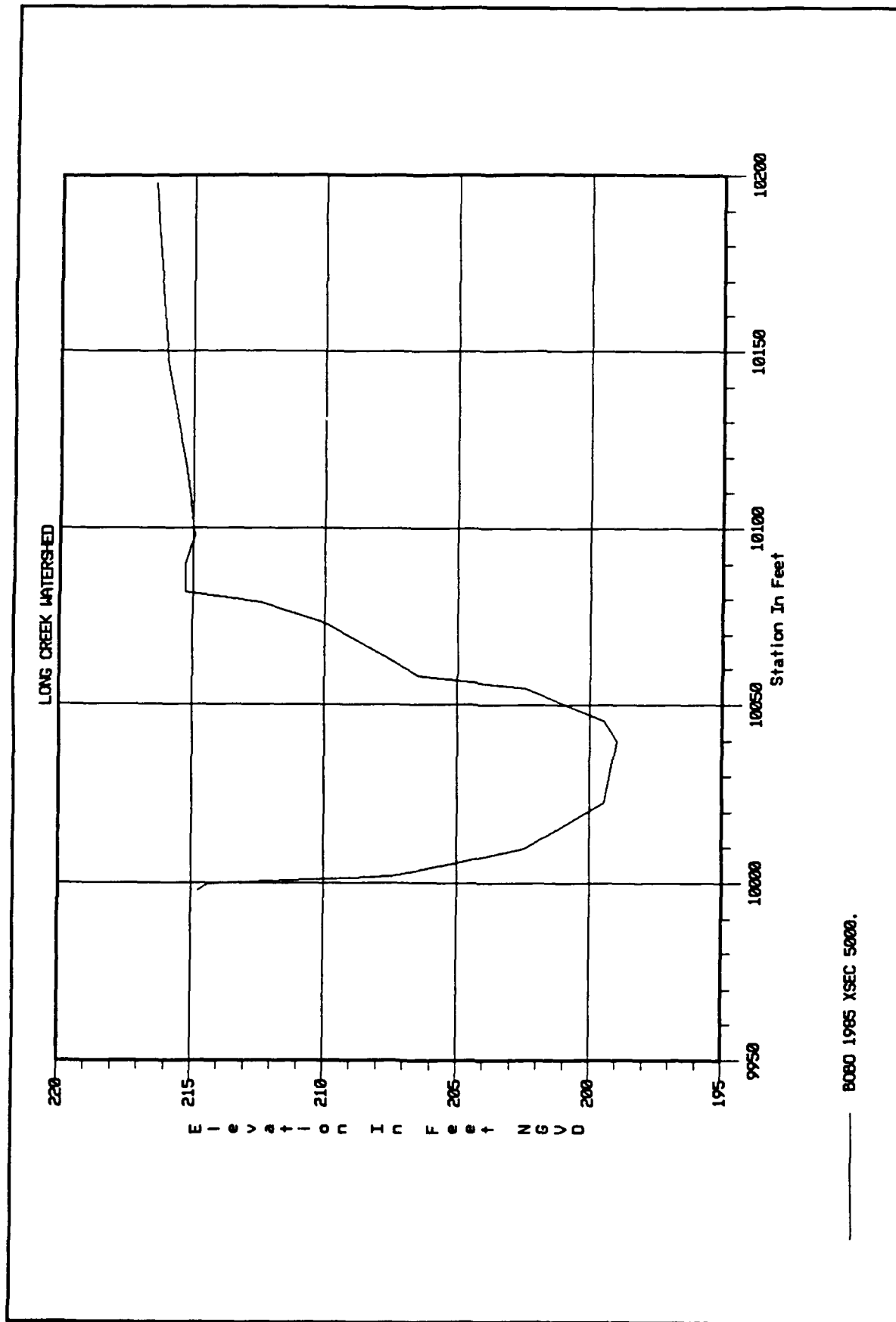
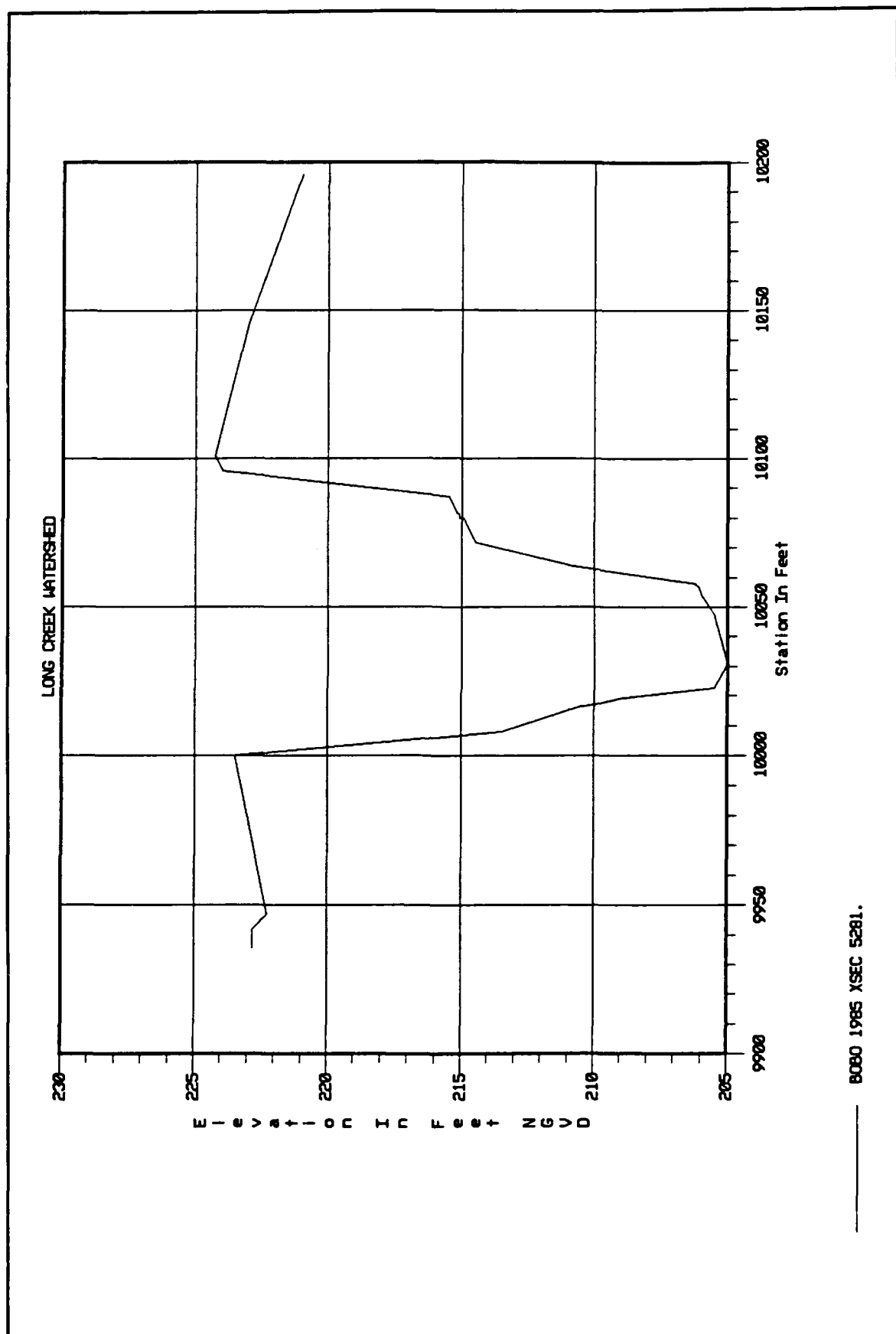


PLATE B22





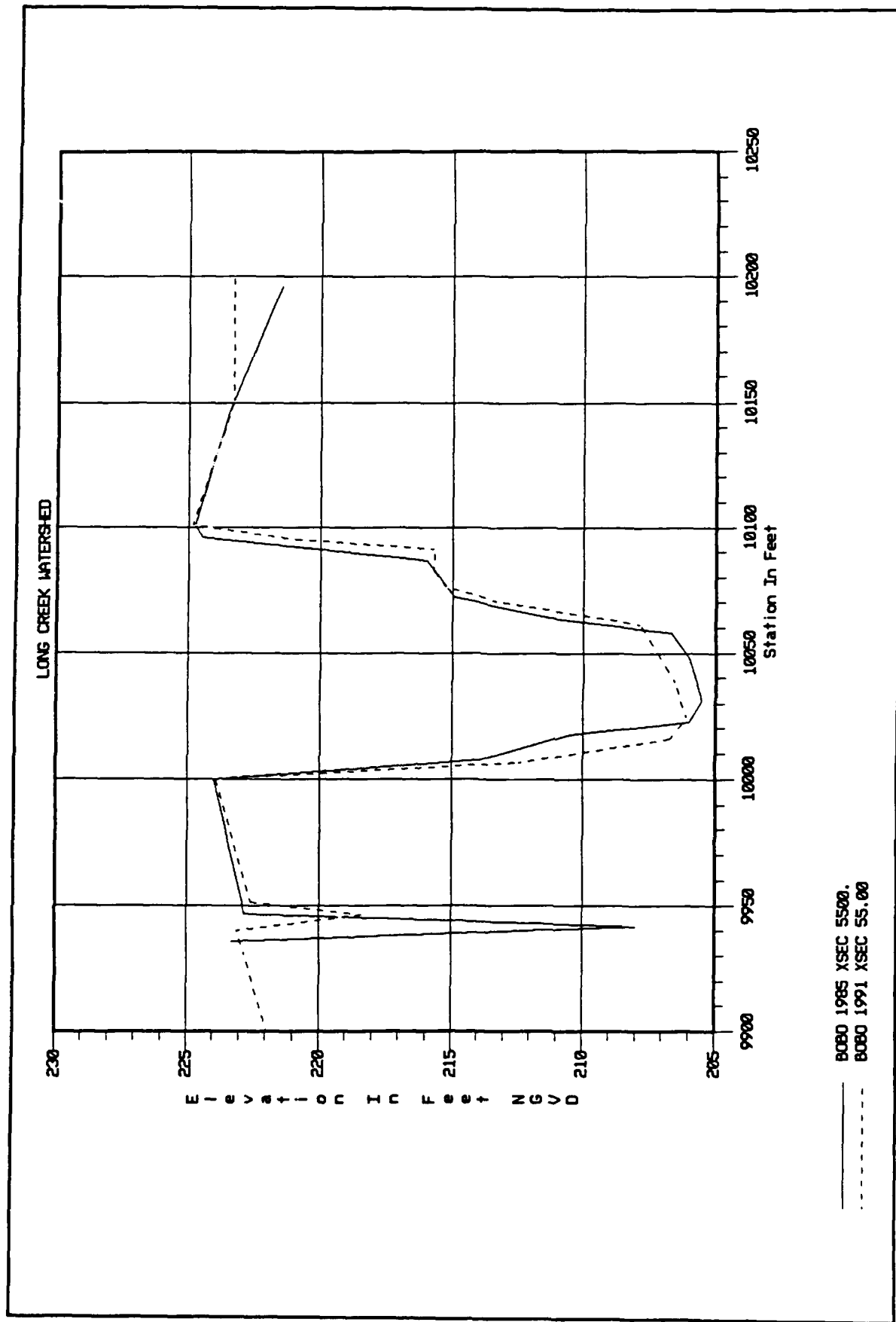
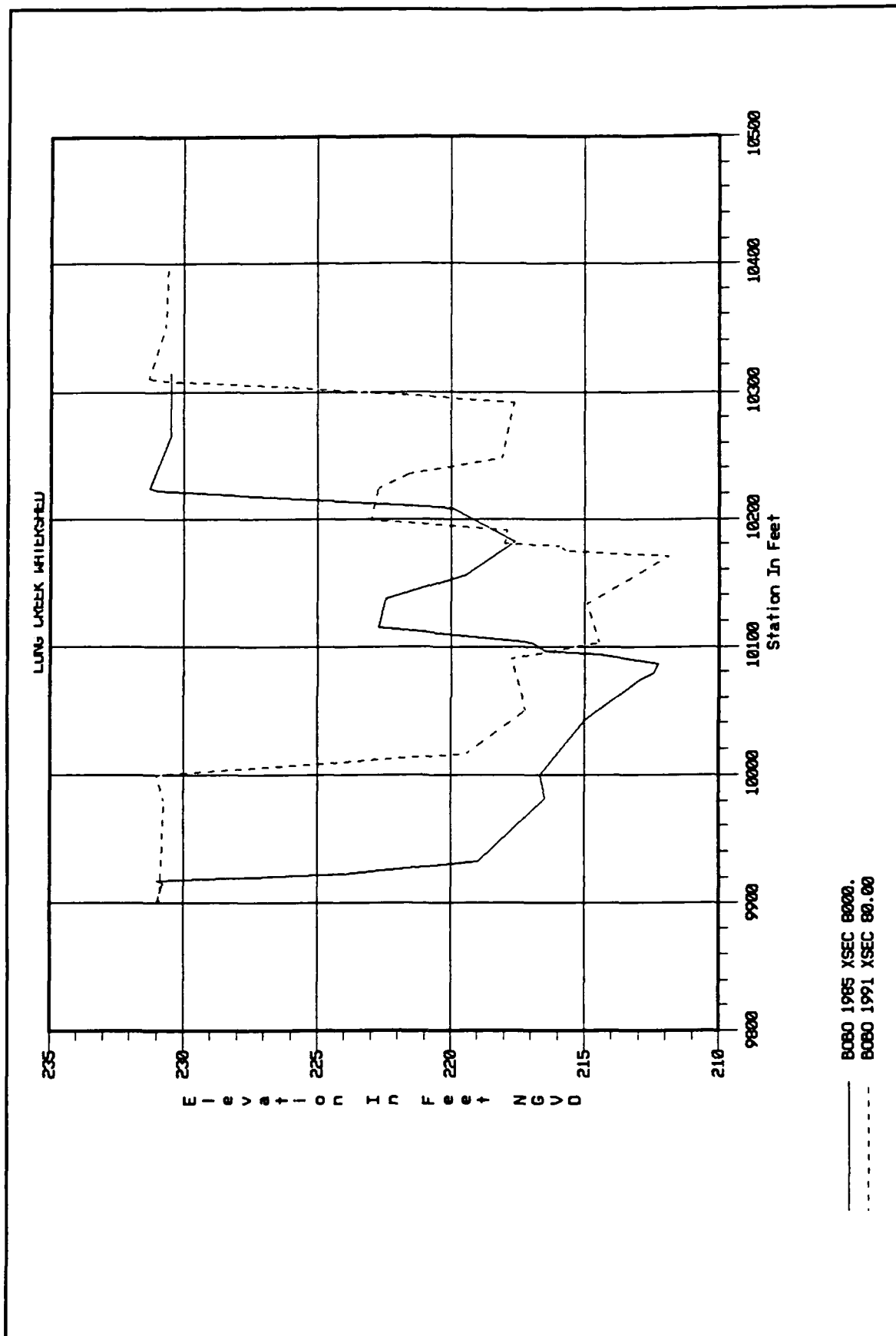


PLATE B24



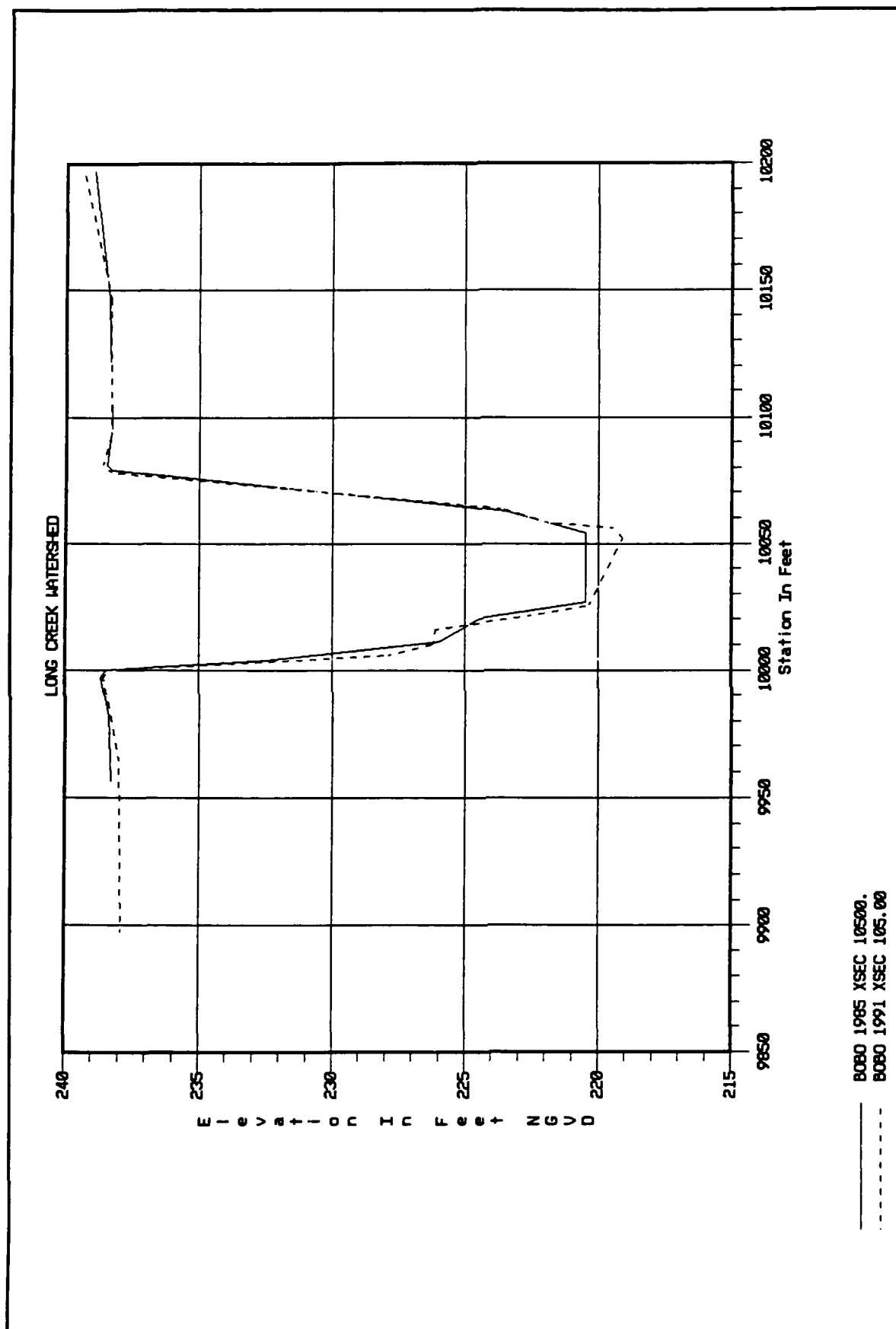
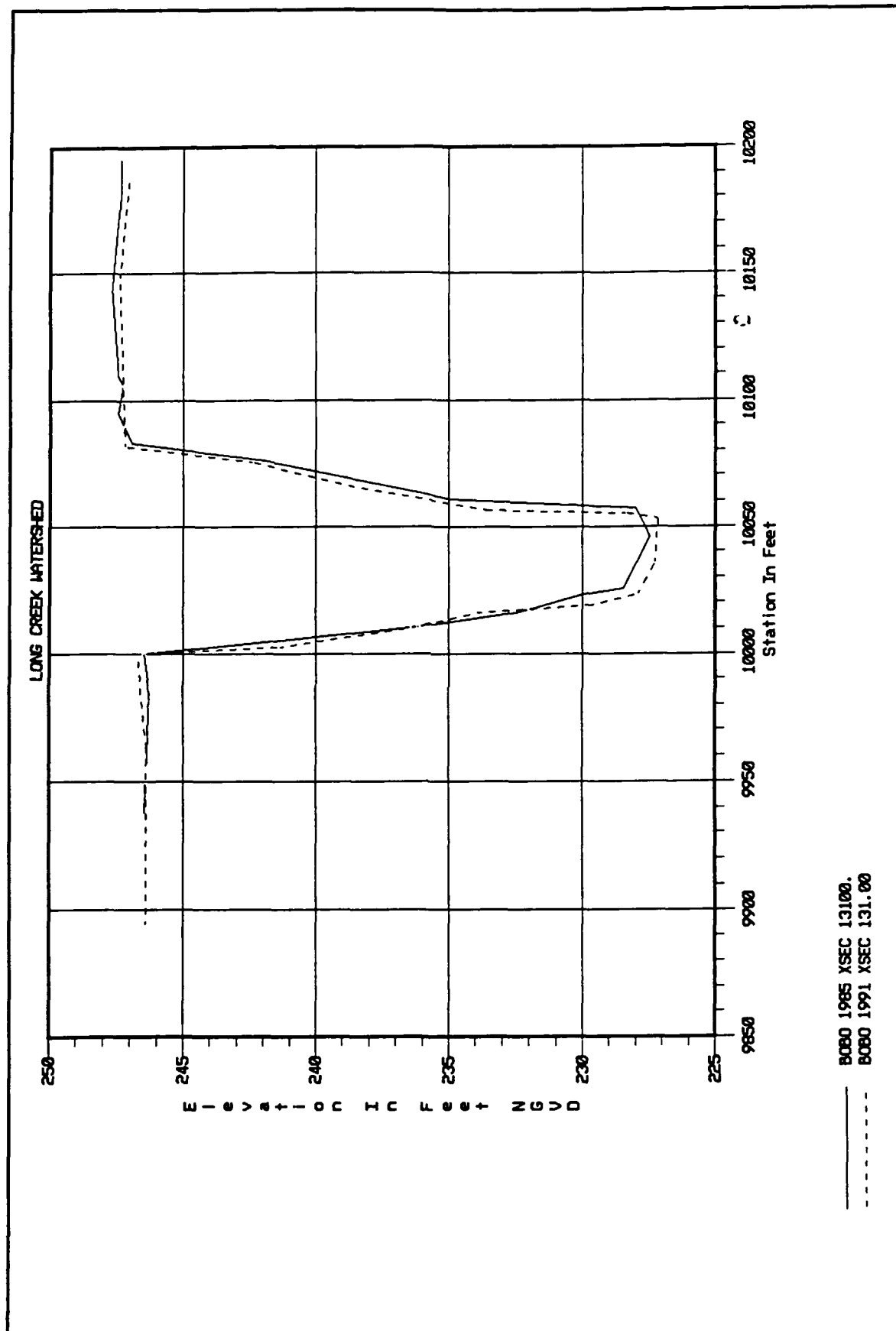


PLATE B26



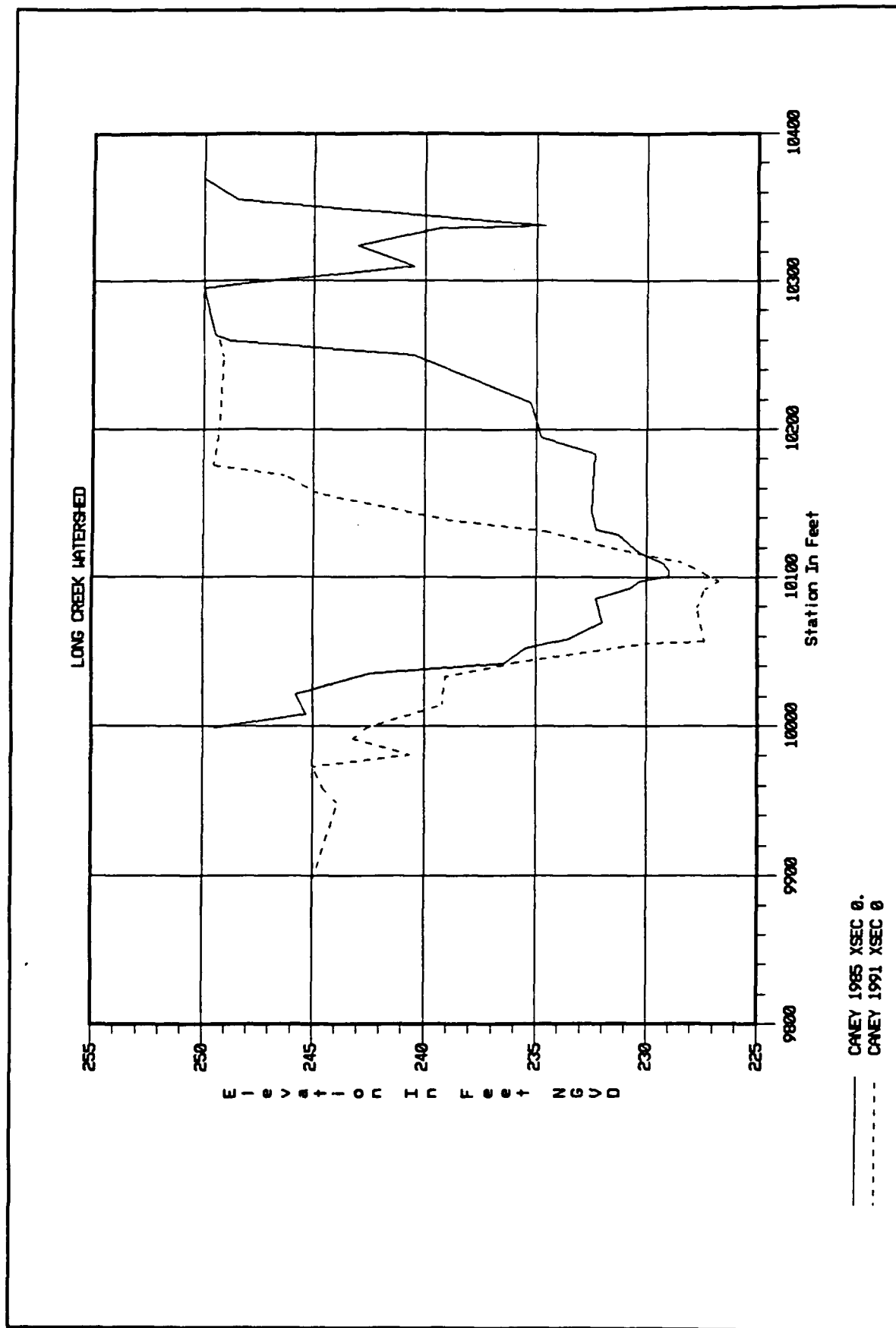
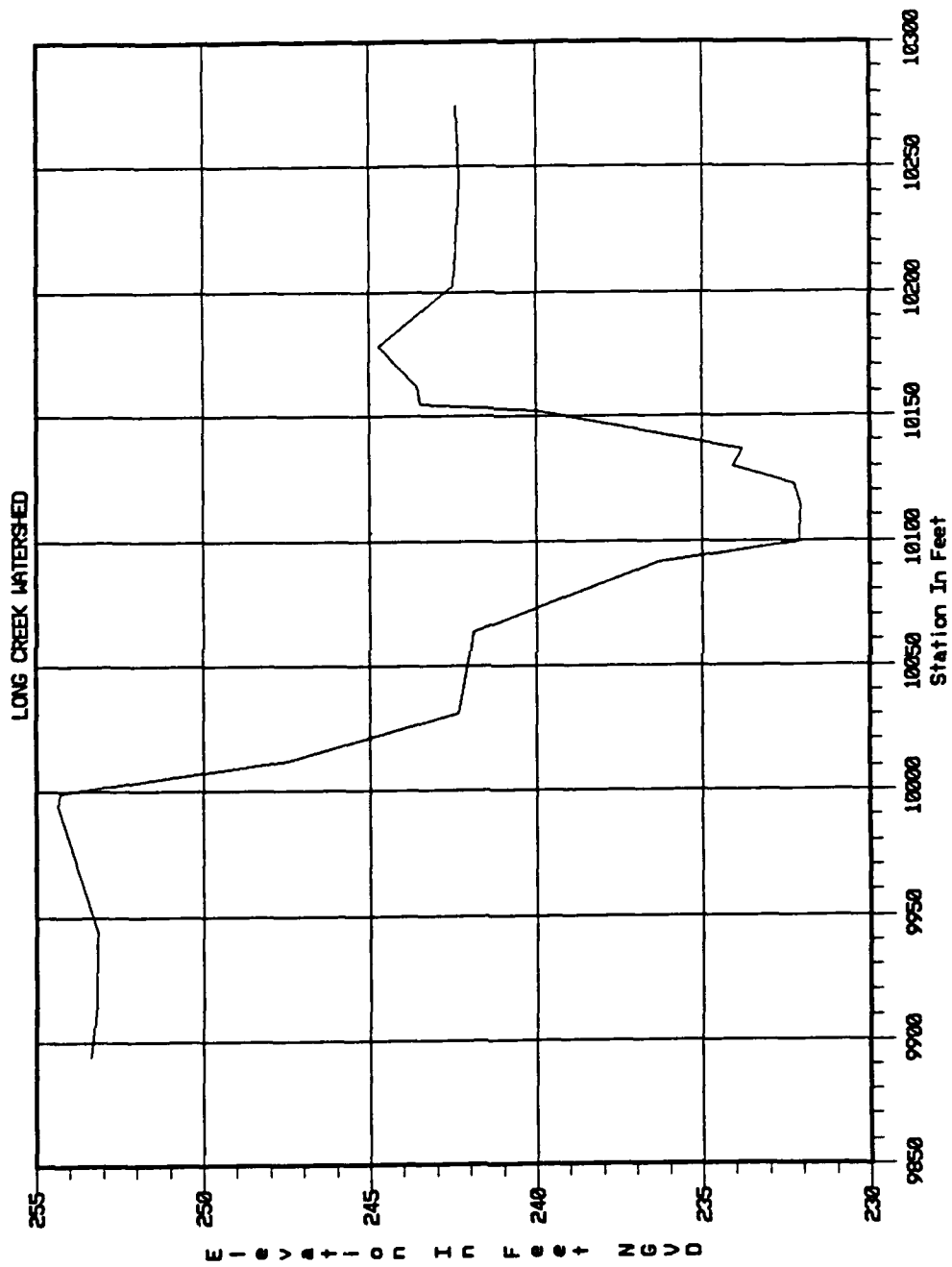
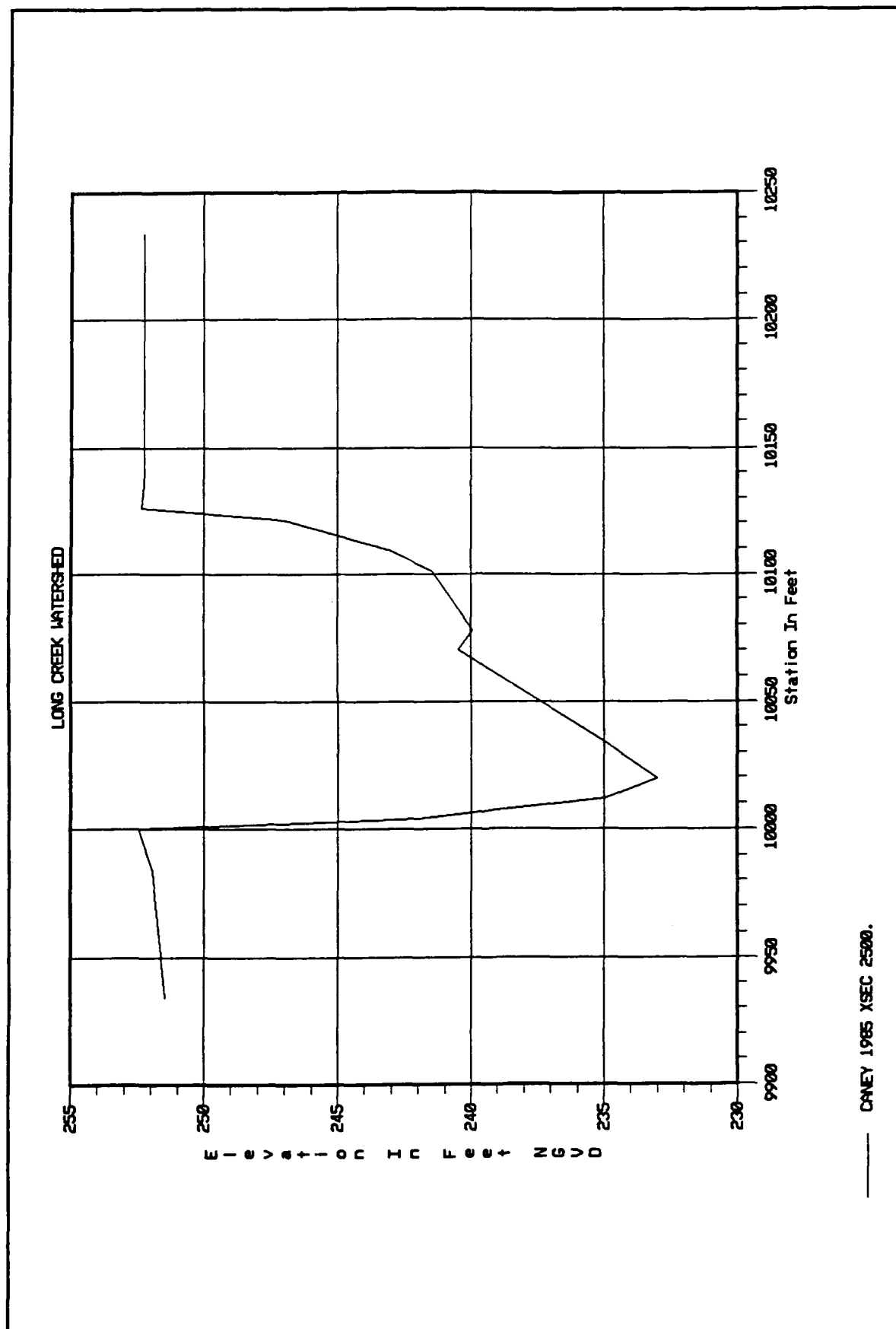
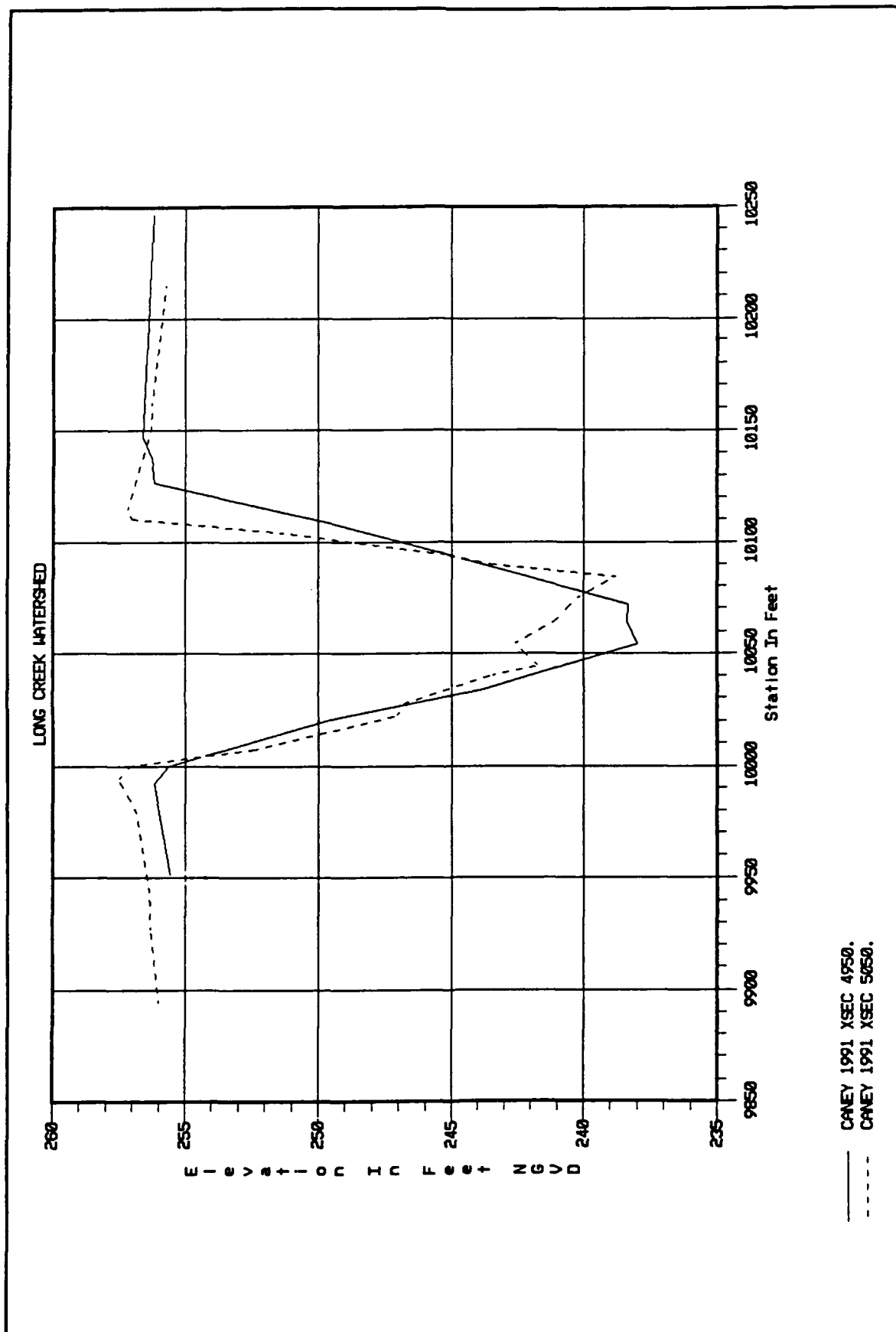


PLATE B28

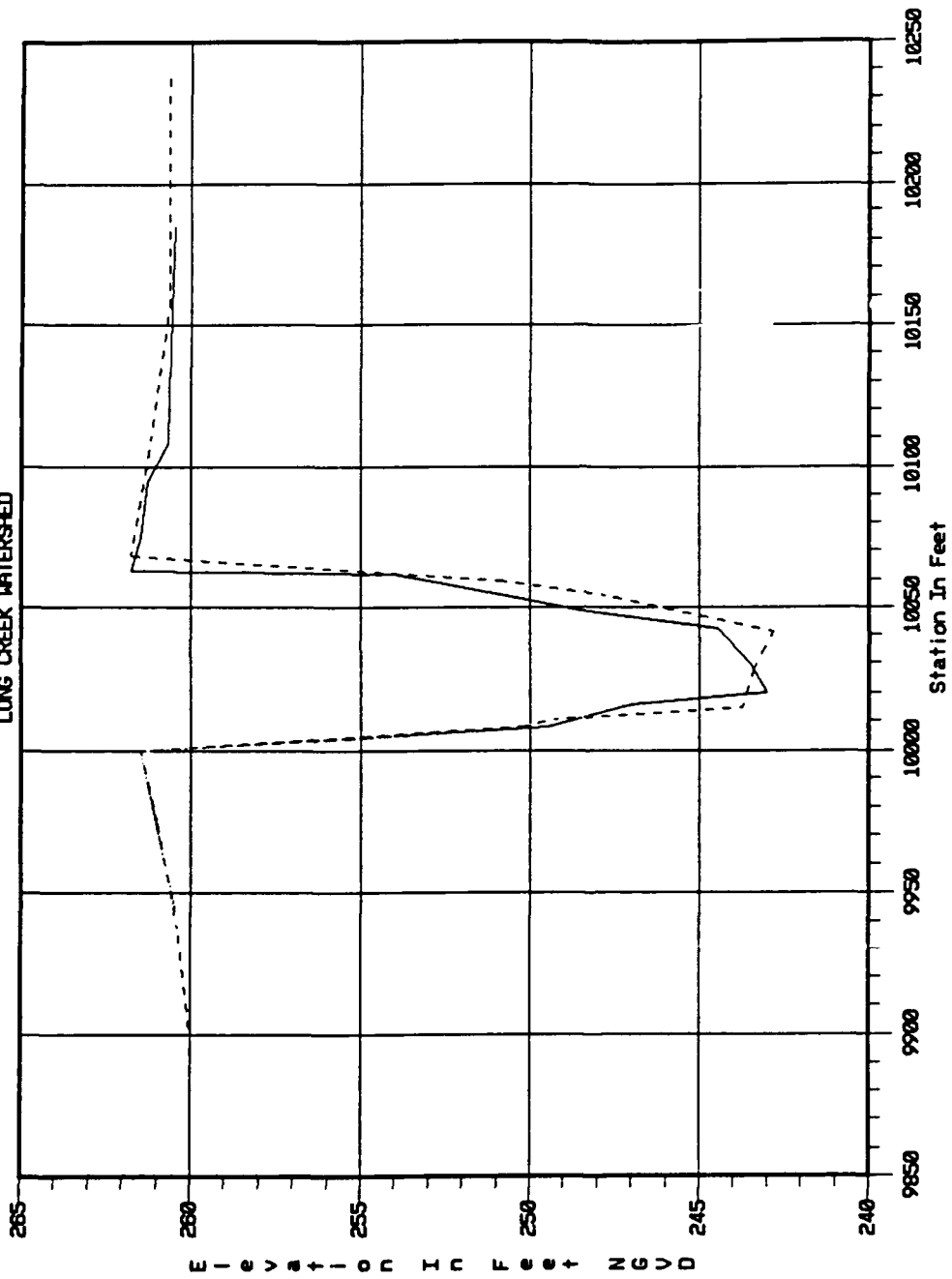


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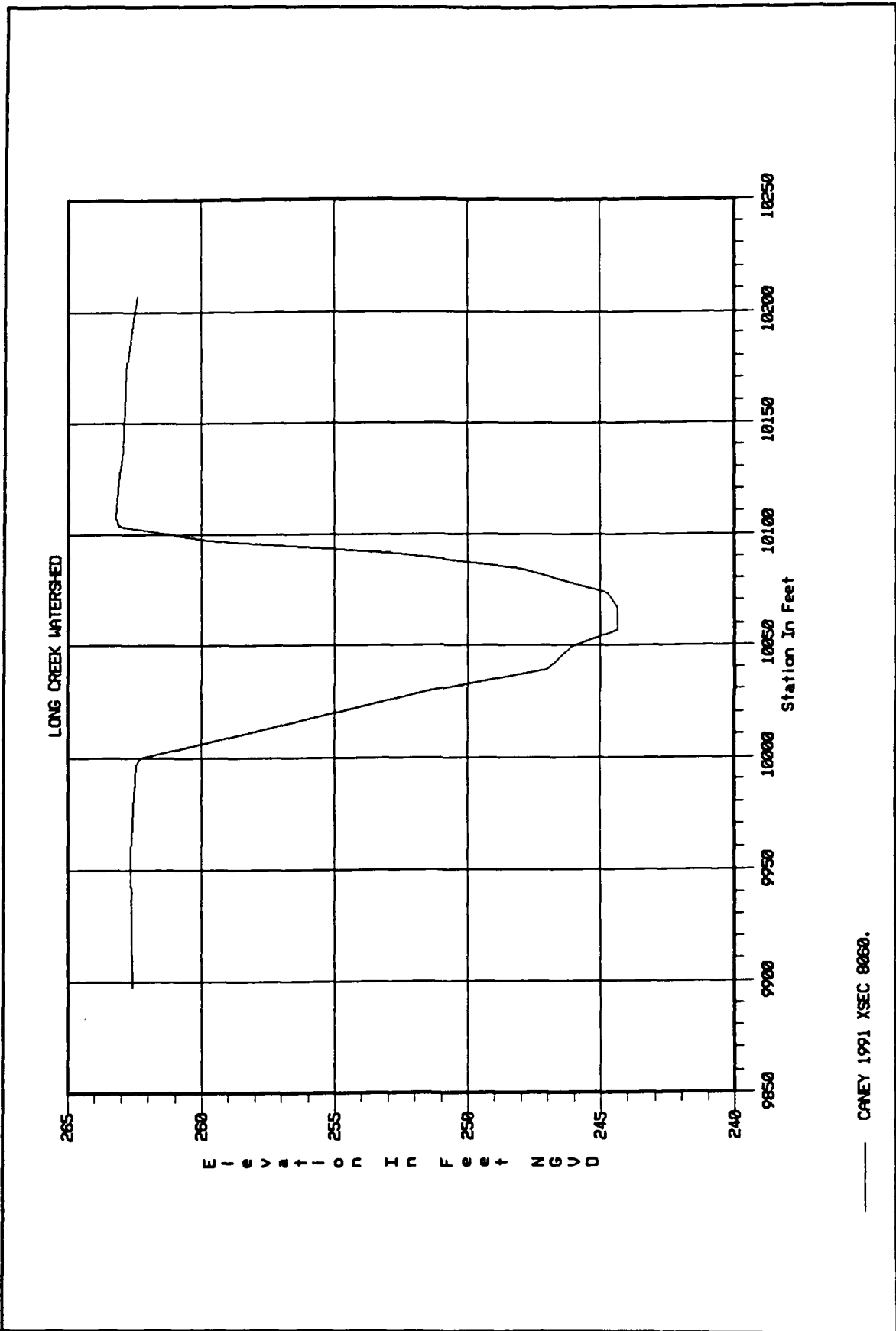


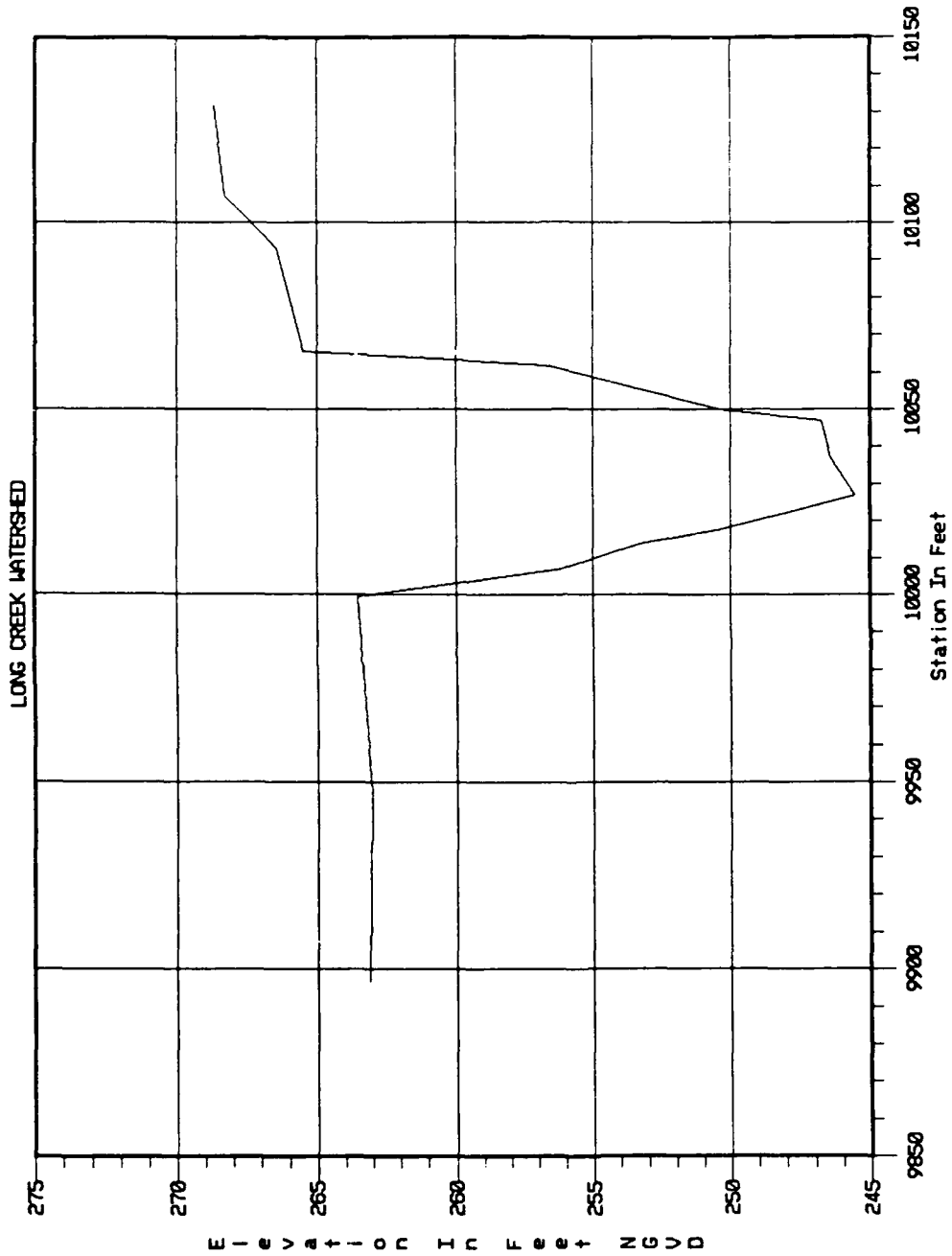


LONG CREEK WATERSHED

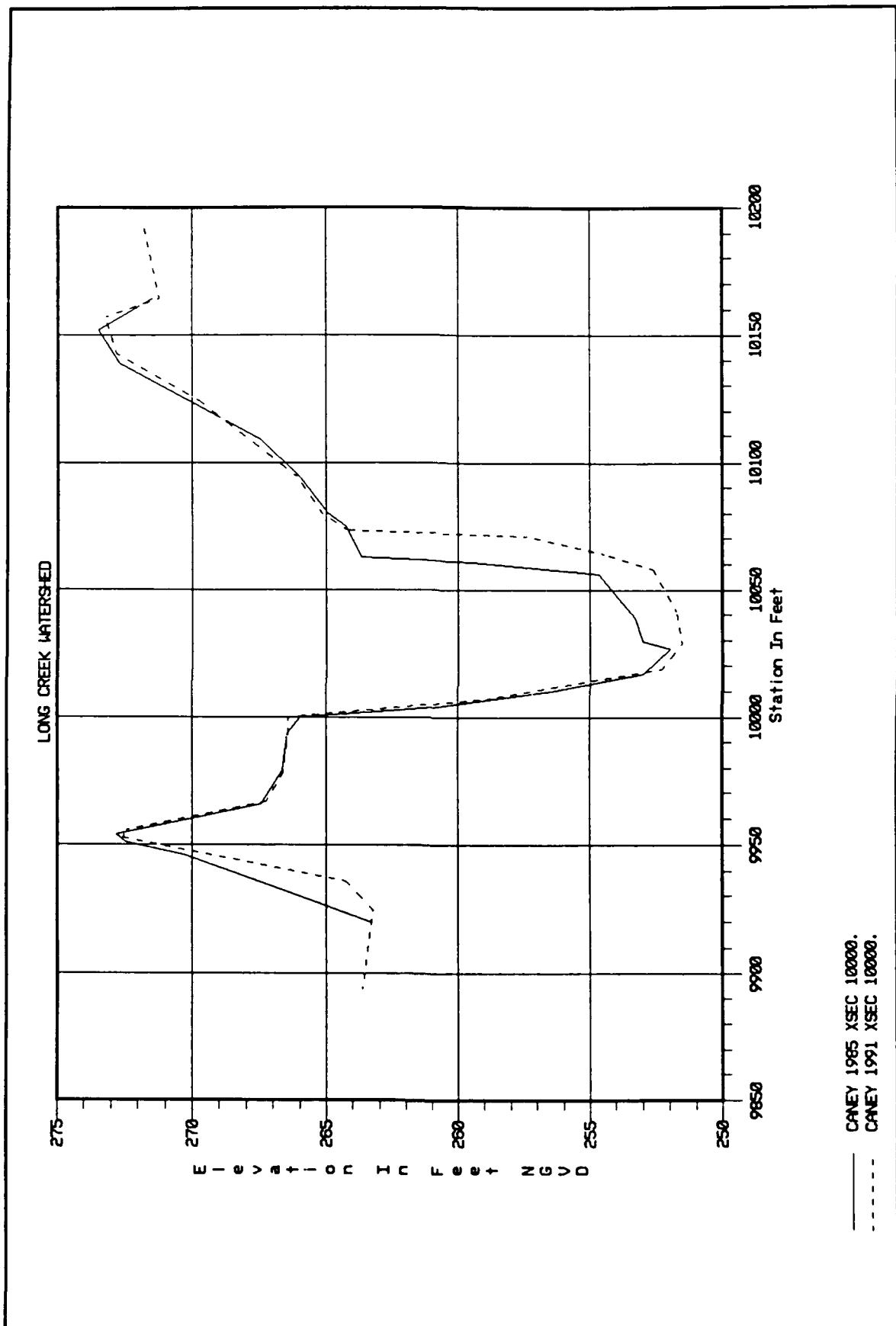


— CANEY 1985 XSEC 7500.
 - - - CANEY 1991 XSEC 7500.





— CANEY 1991 XSEC 8280.



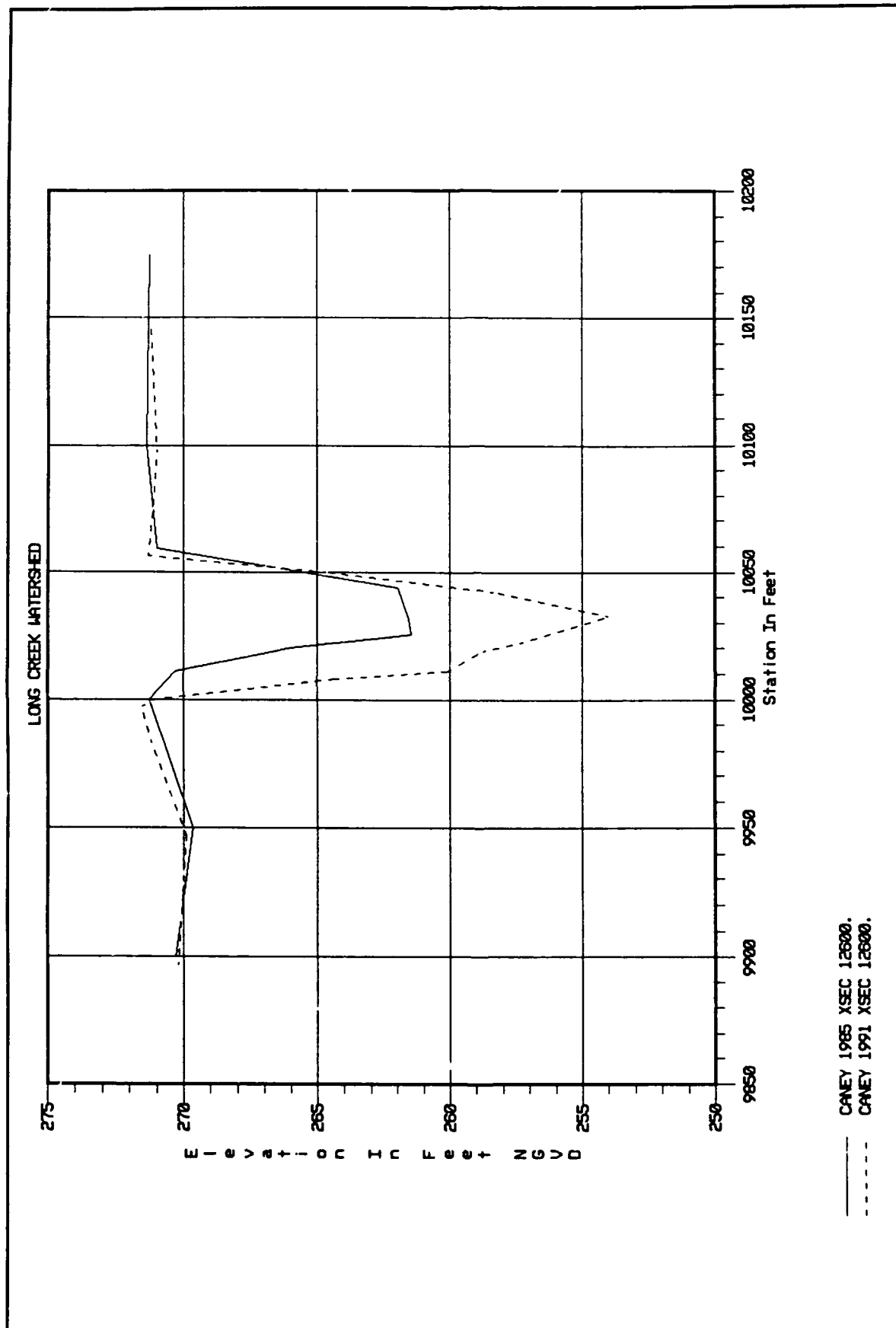
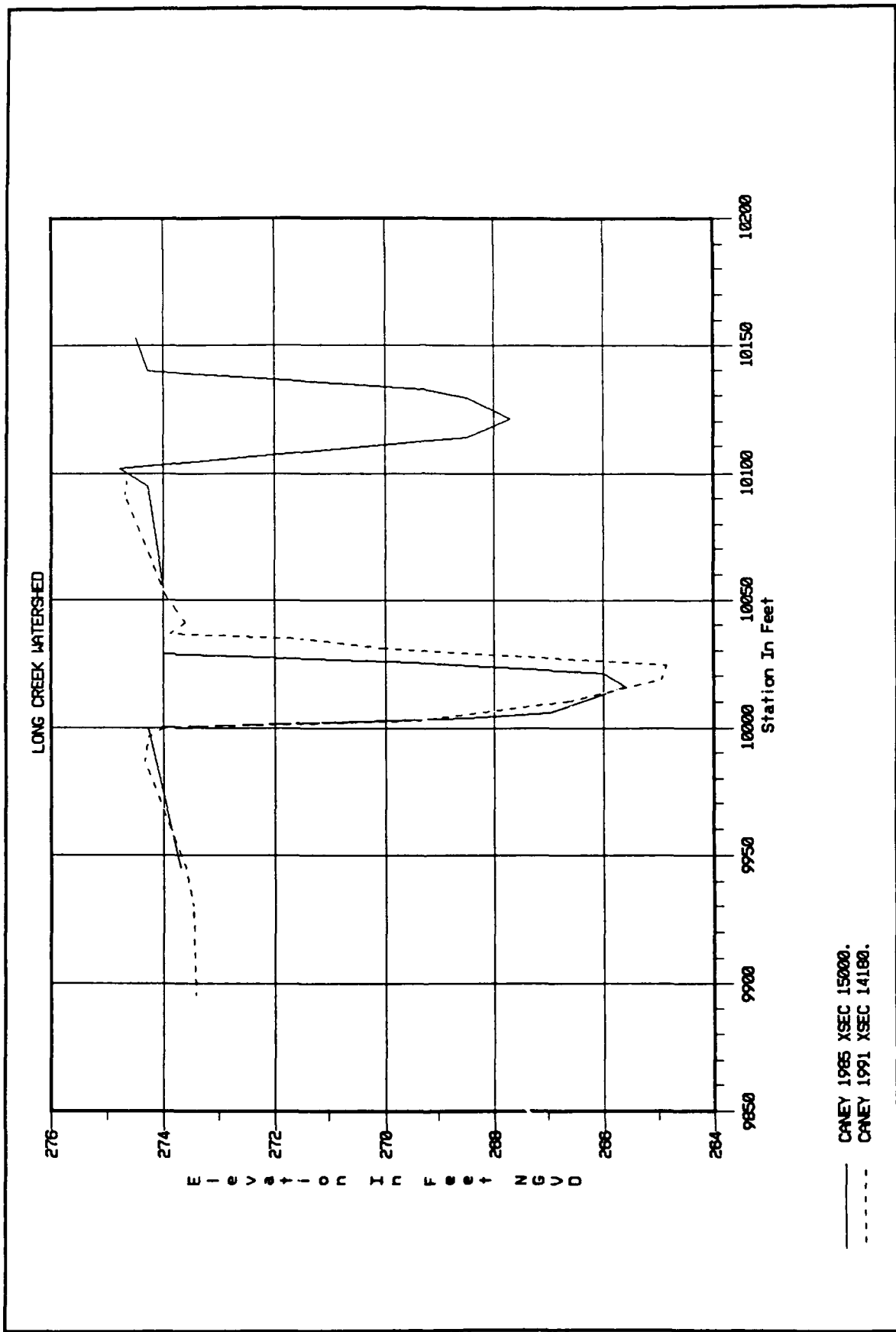
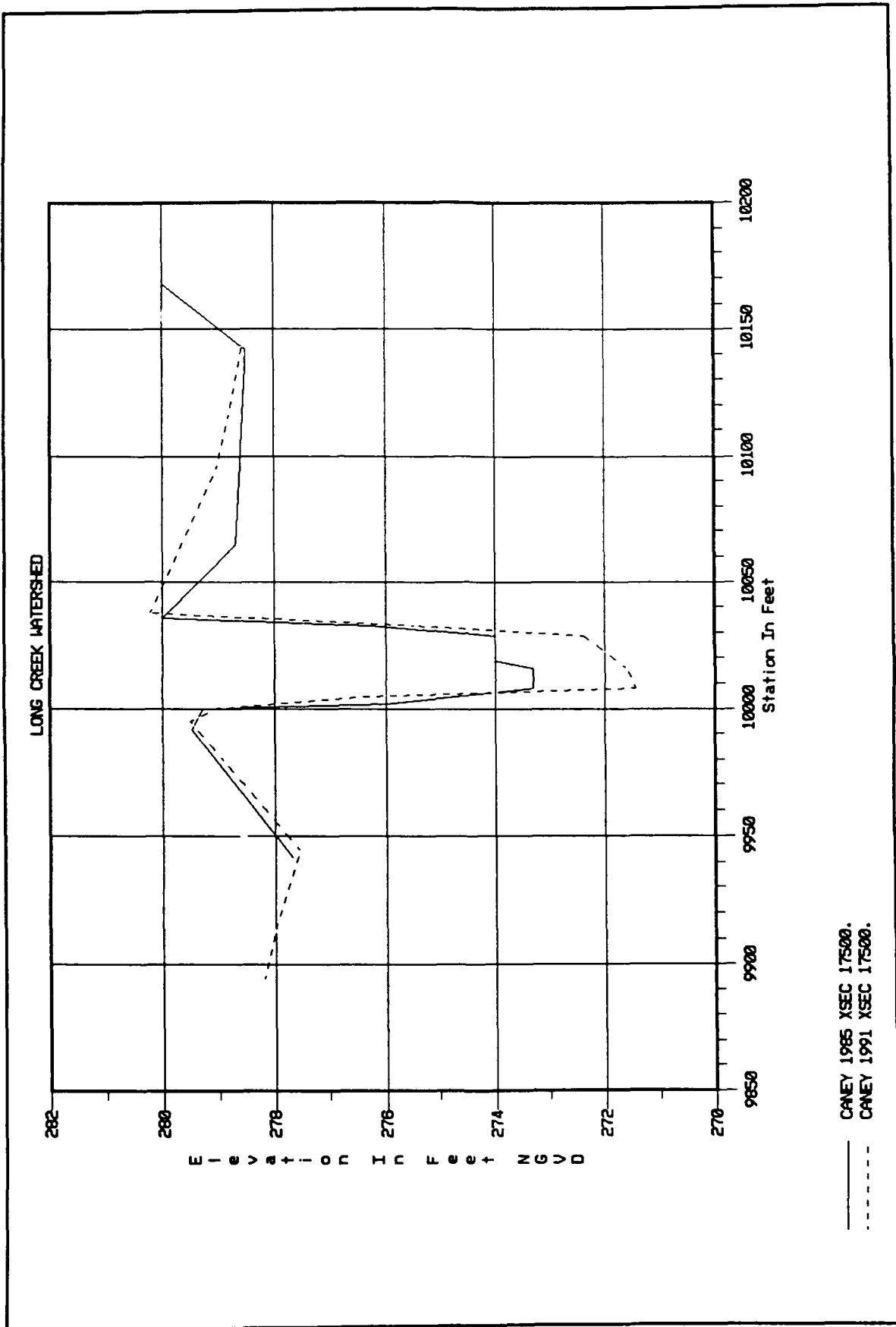


PLATE B36





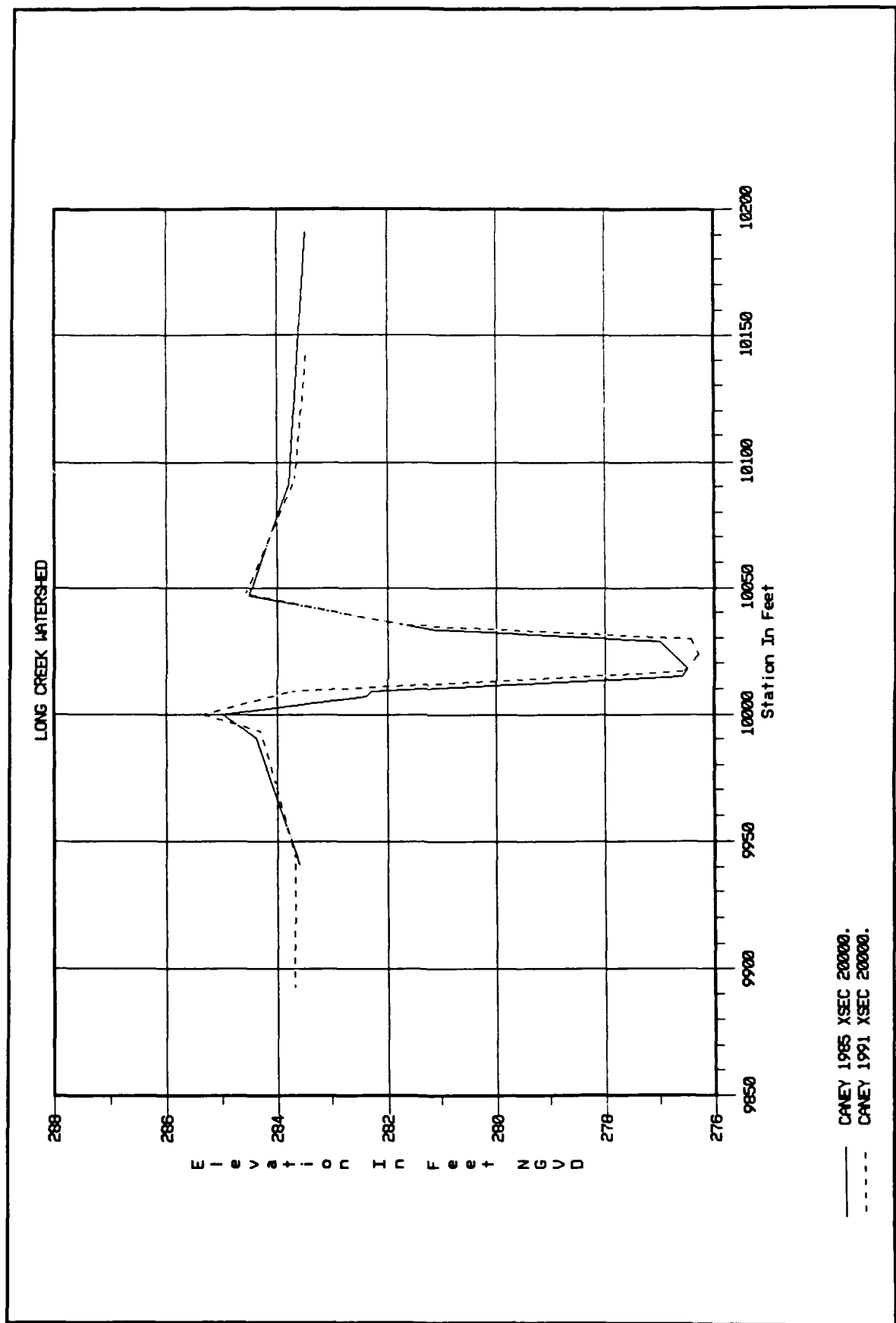
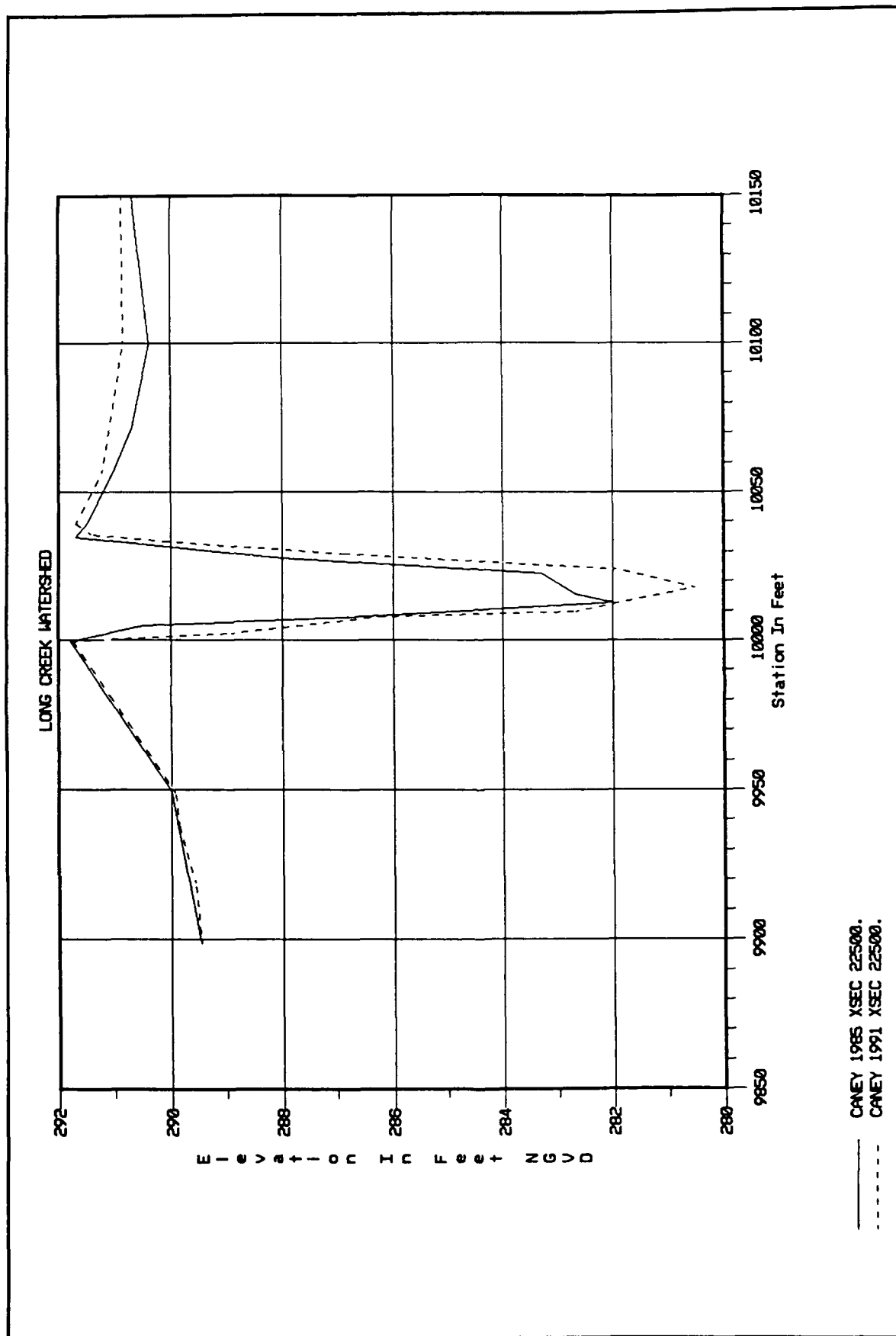
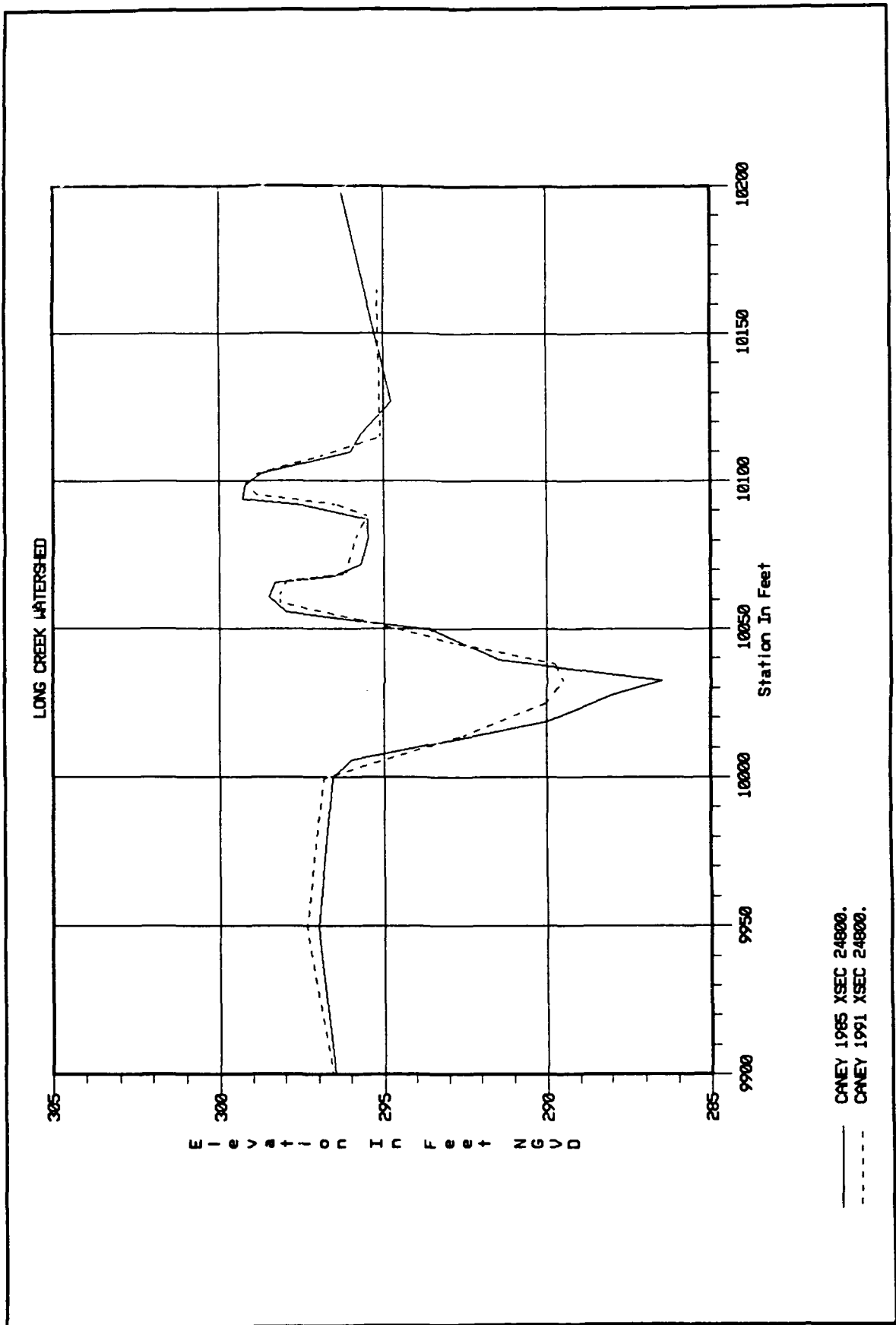
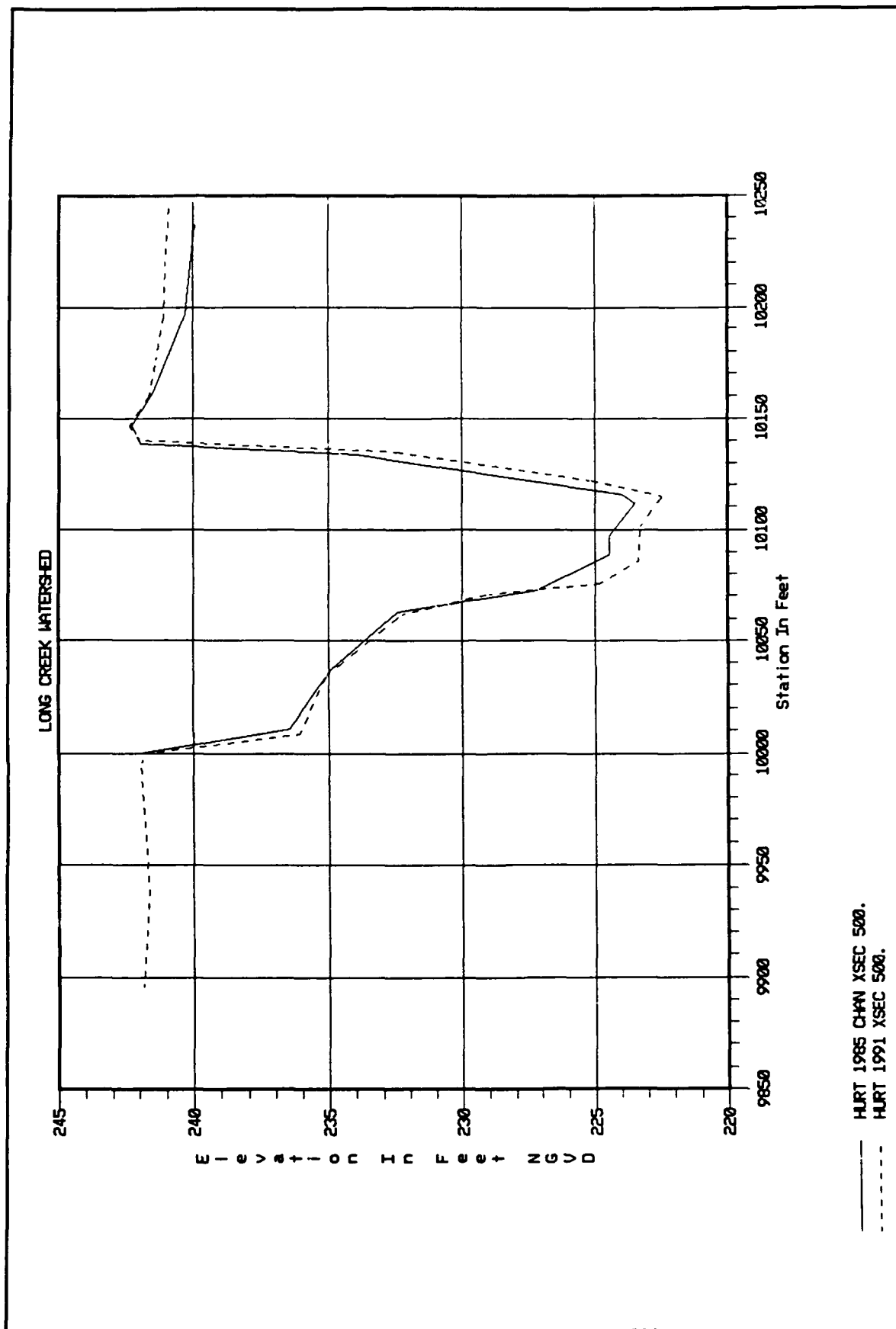
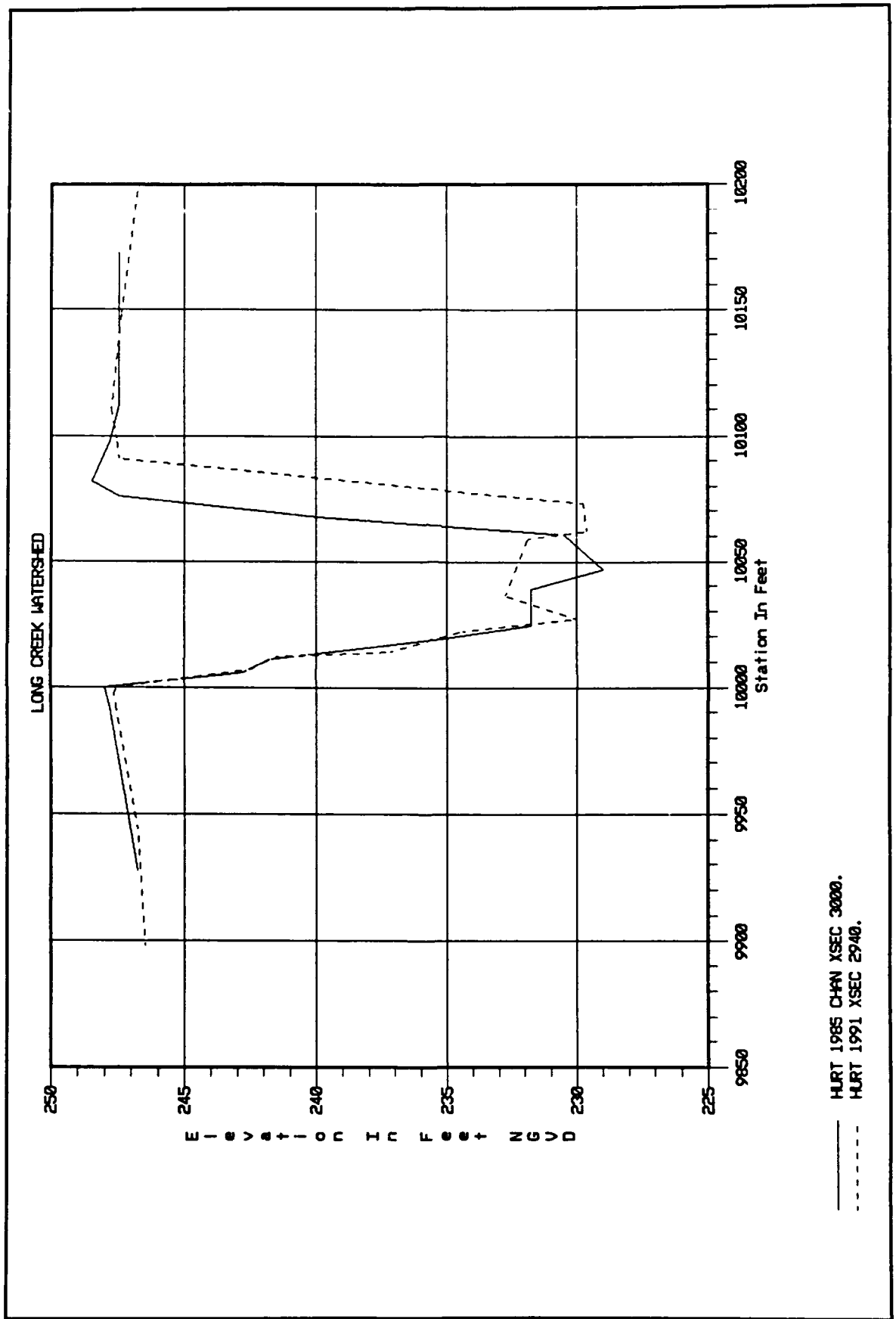


PLATE B40









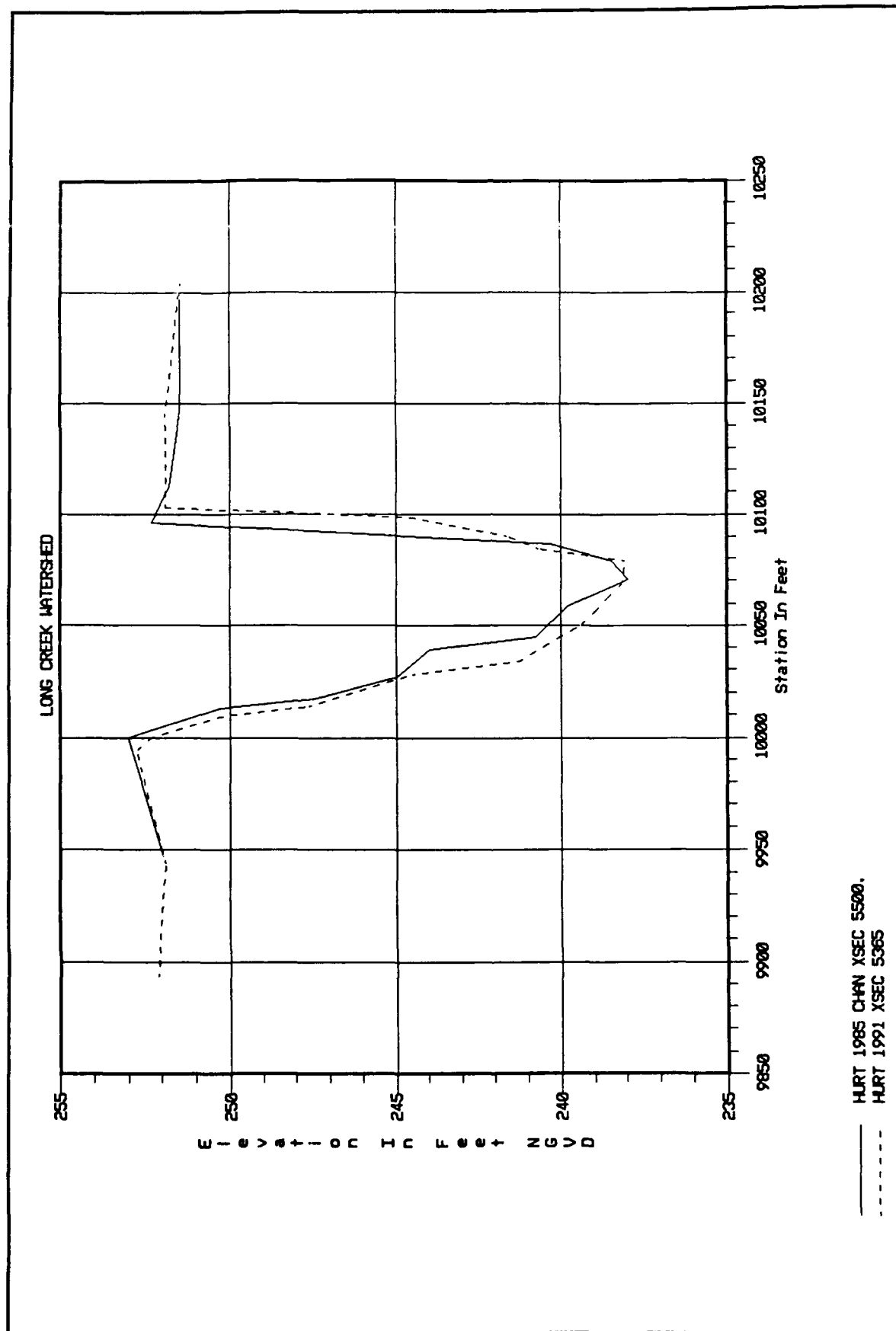


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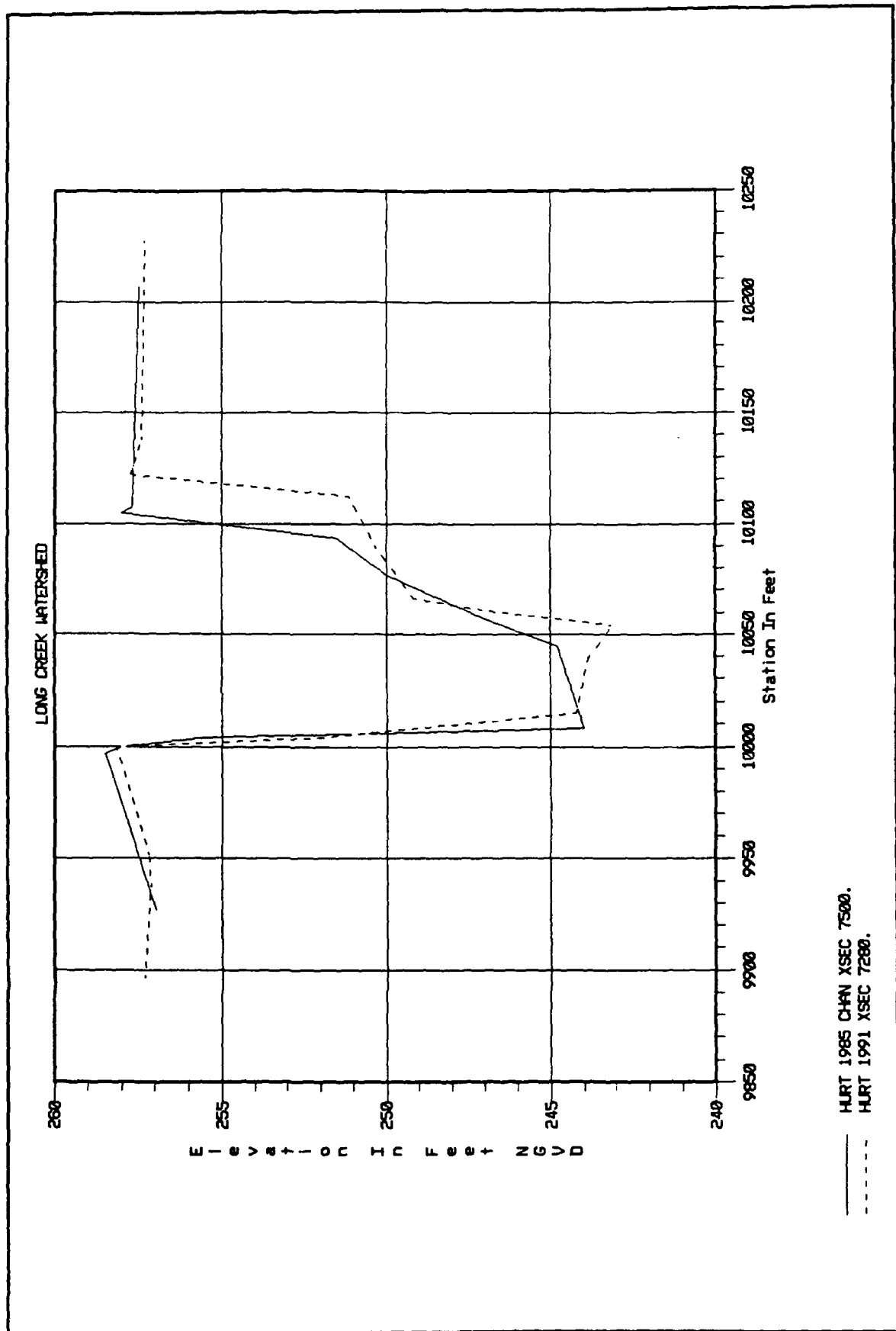


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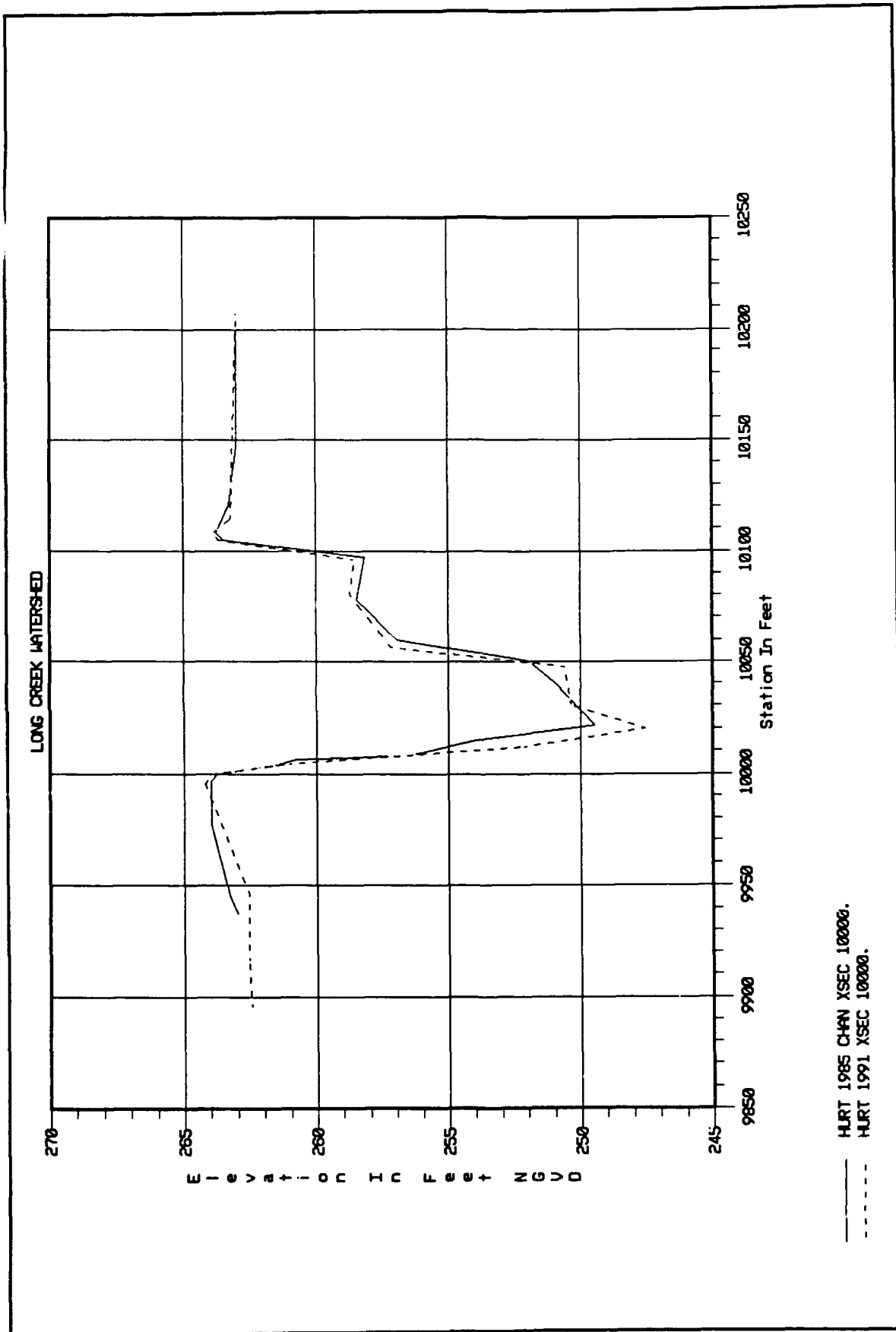
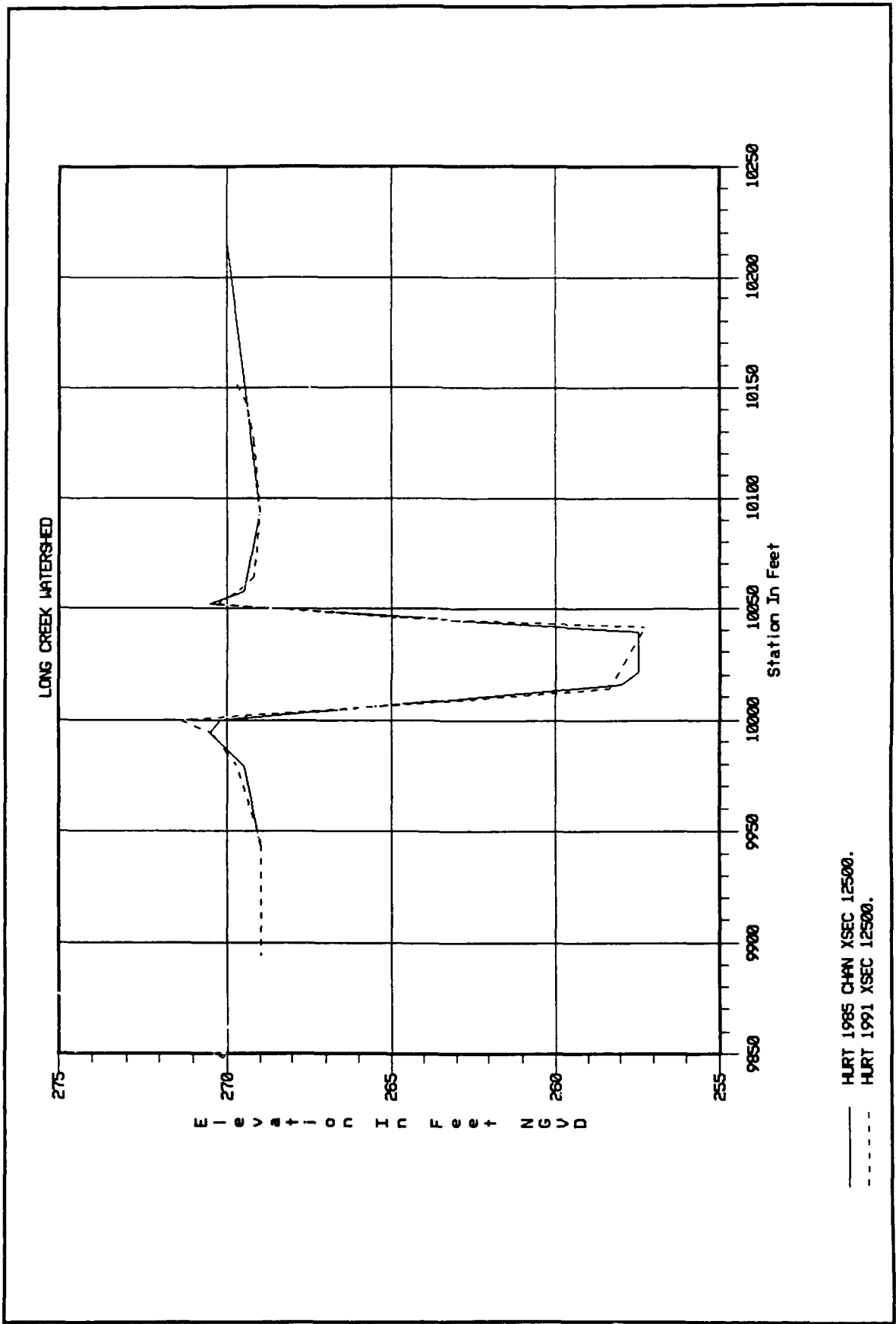
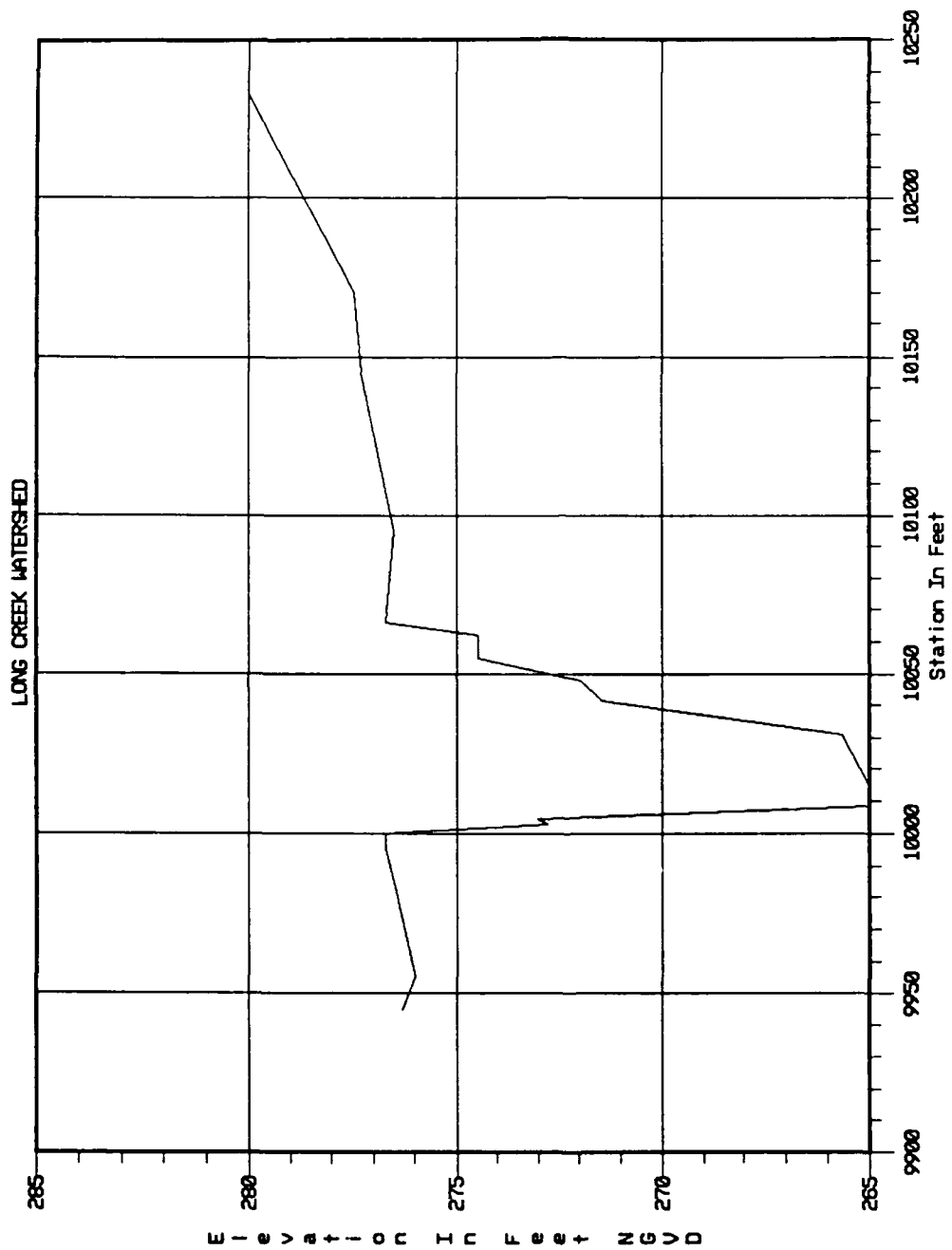
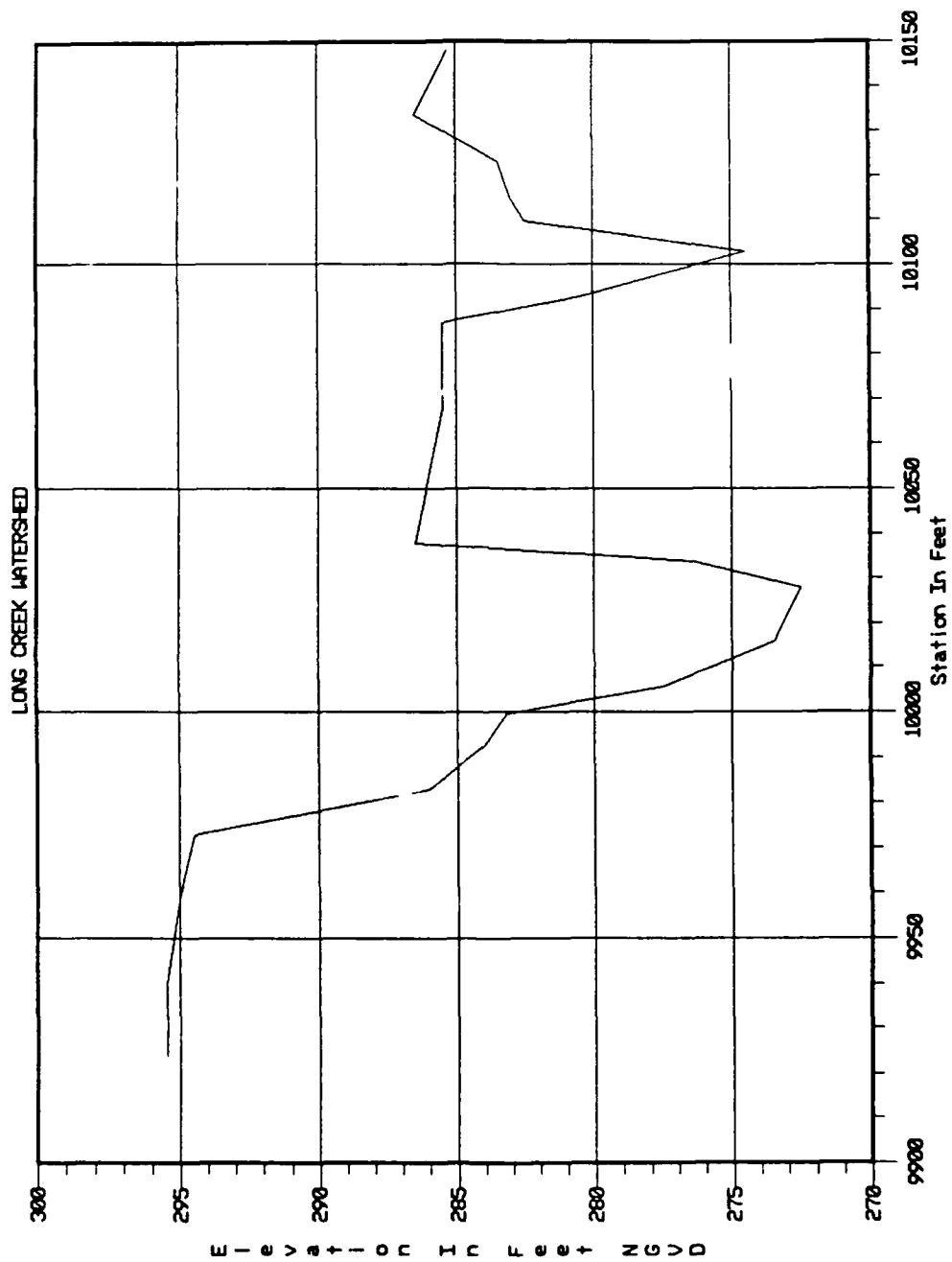


PLATE B46





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— HURT 1985 CHAN XSEC 17600.

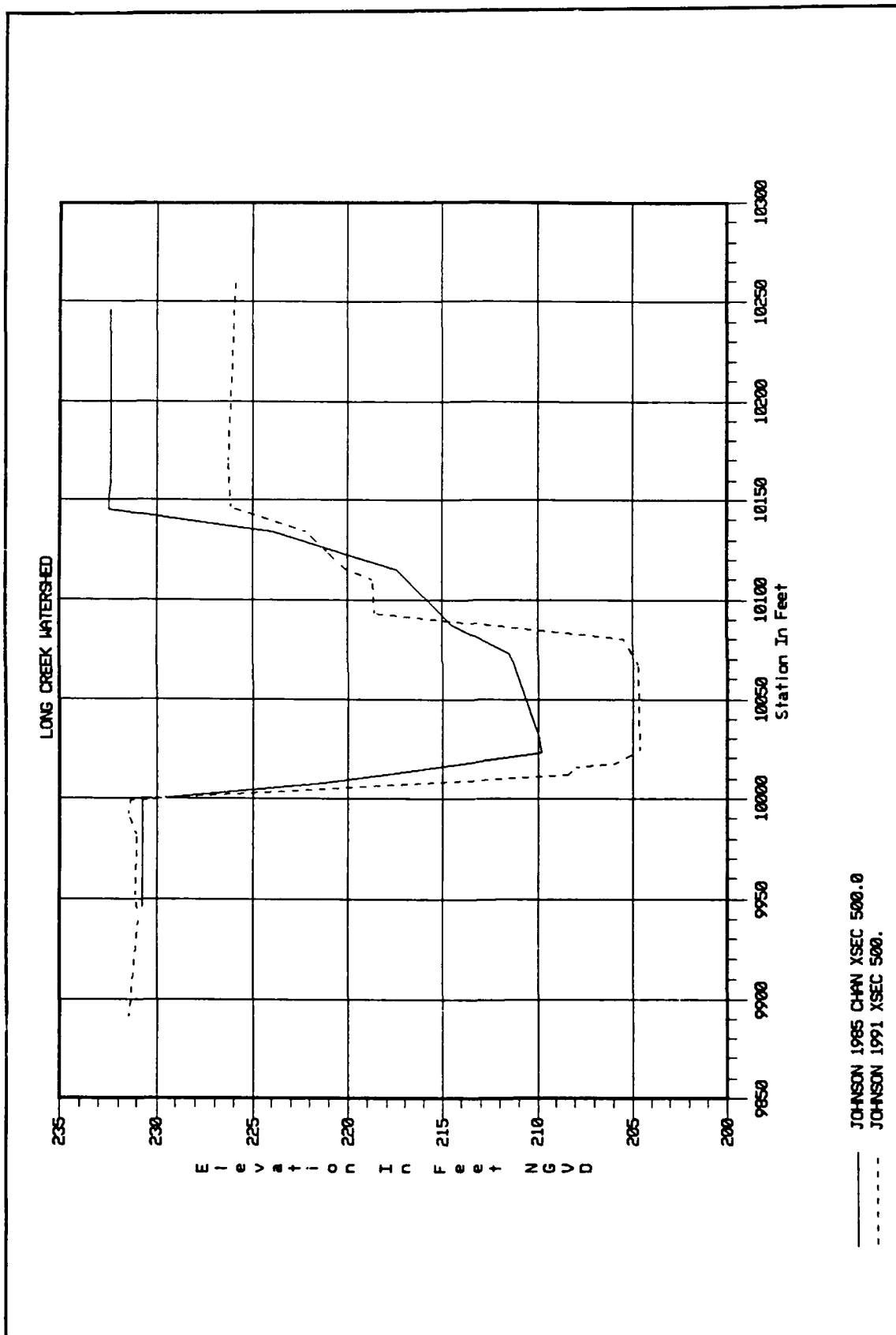
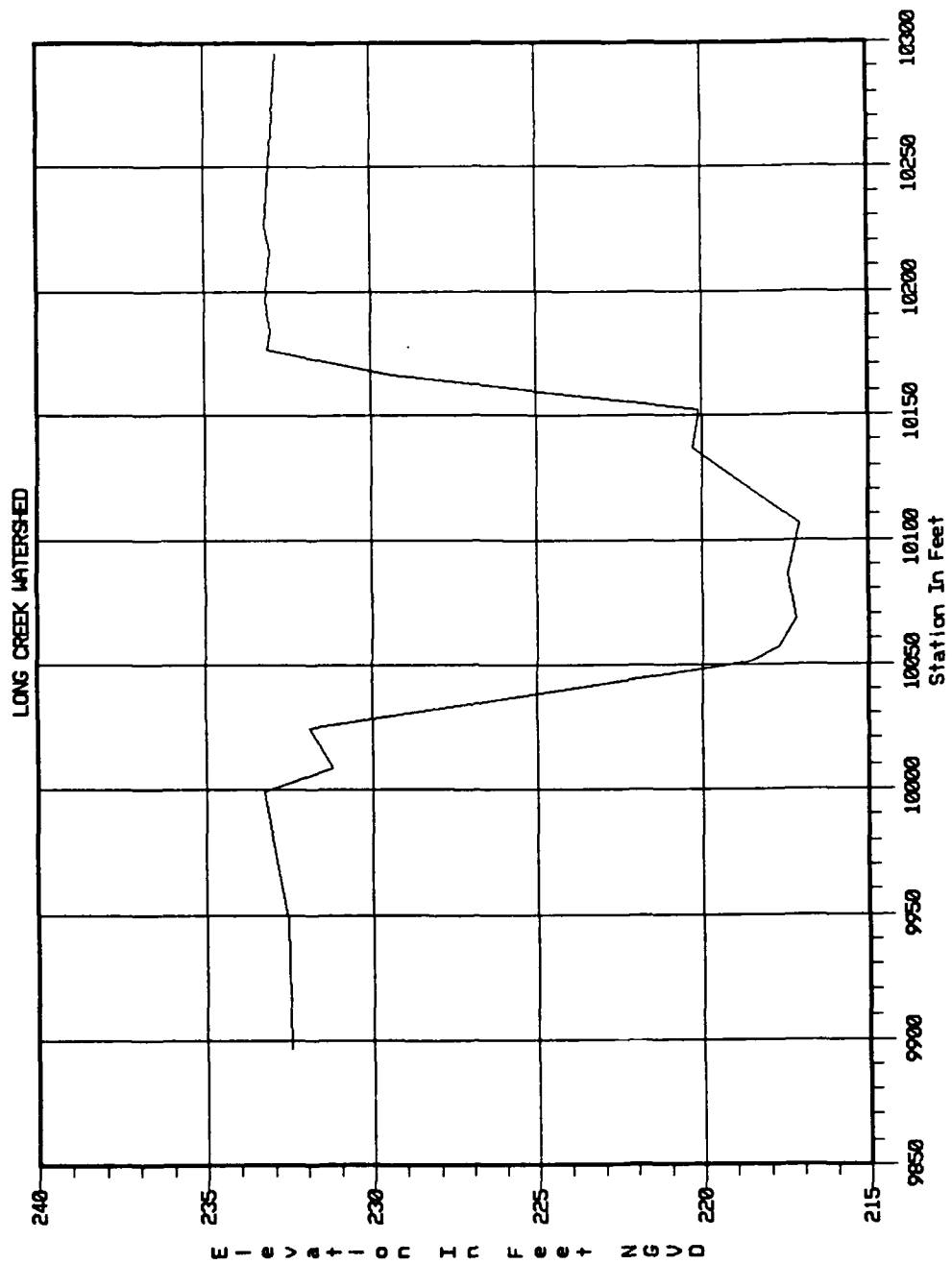
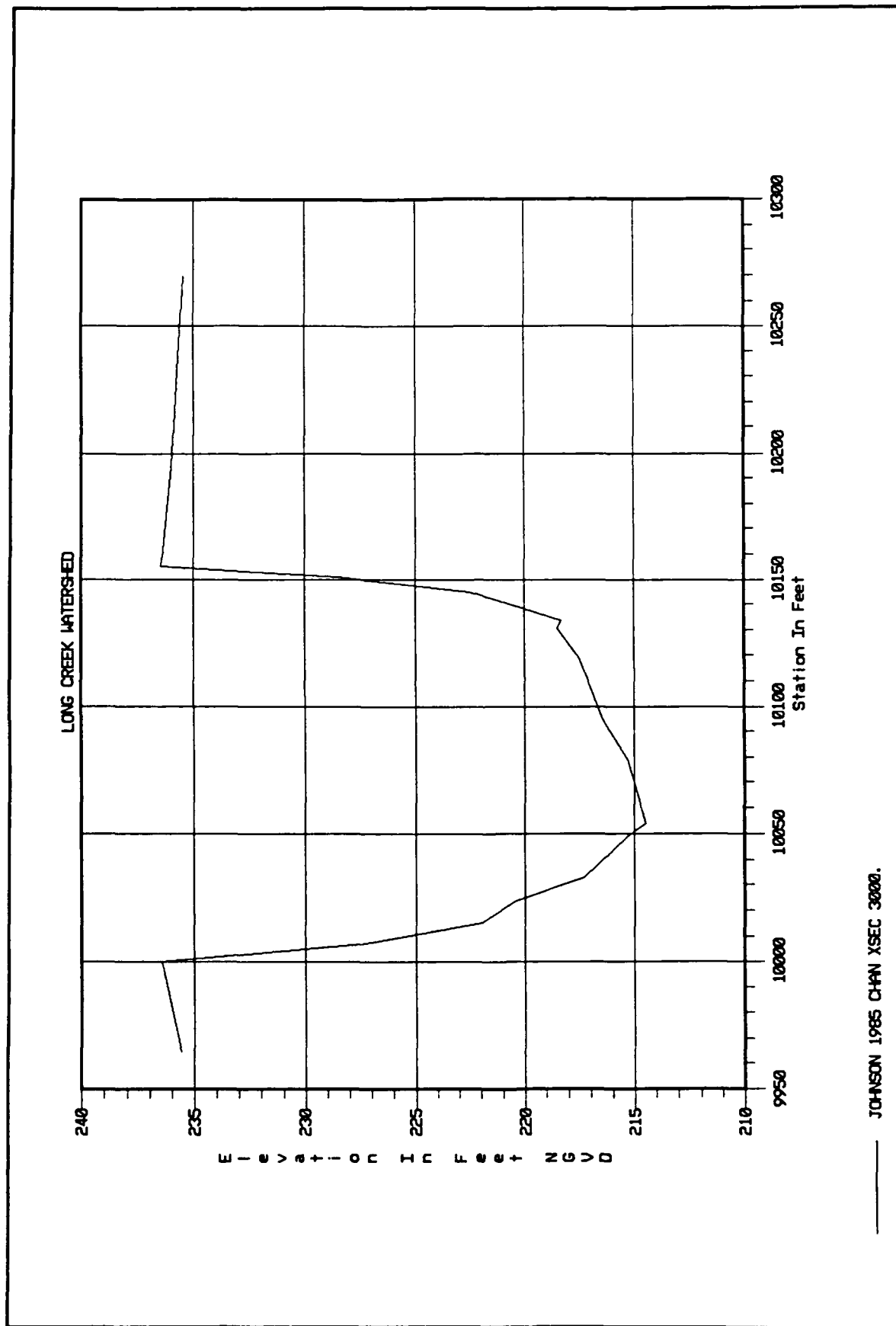
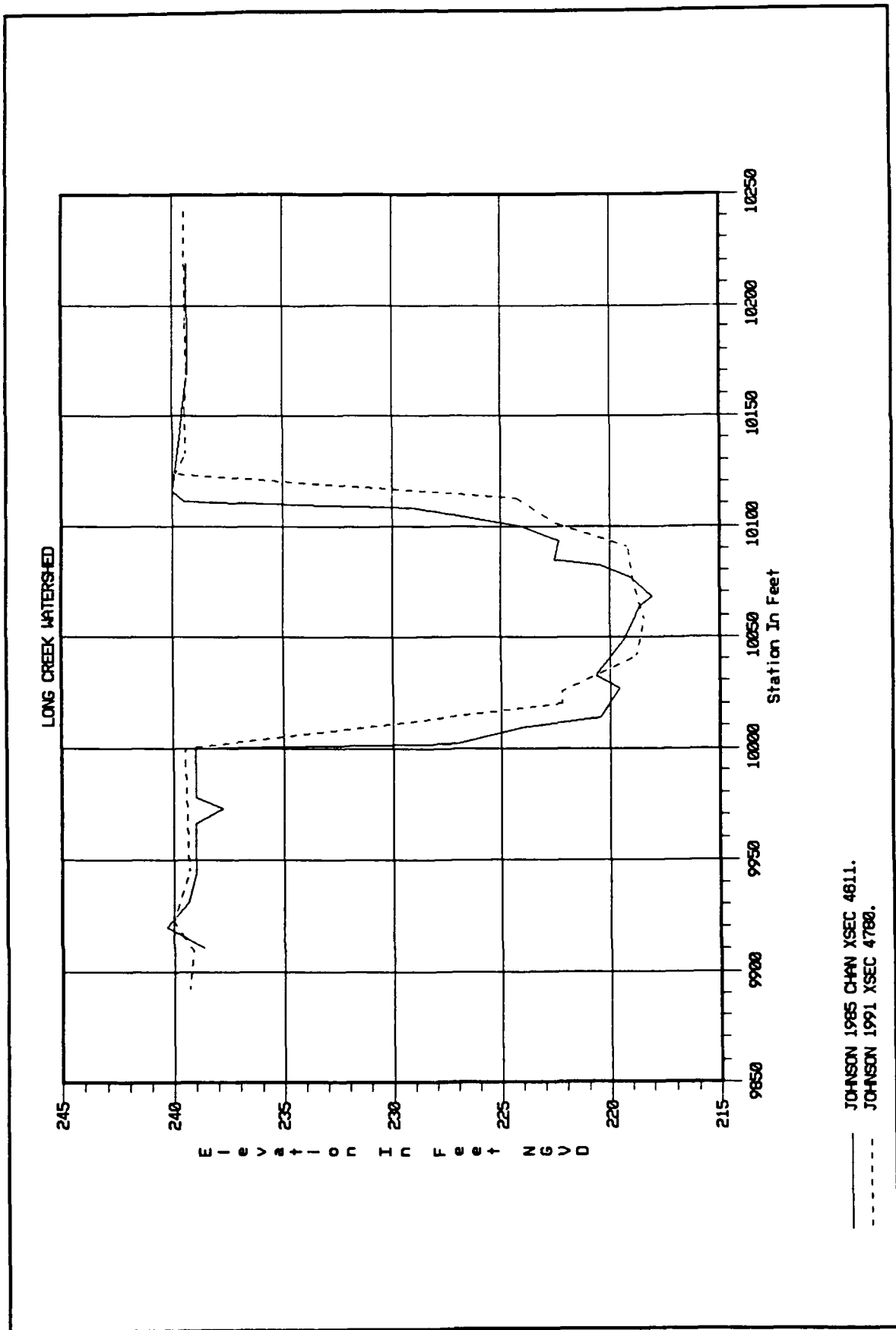


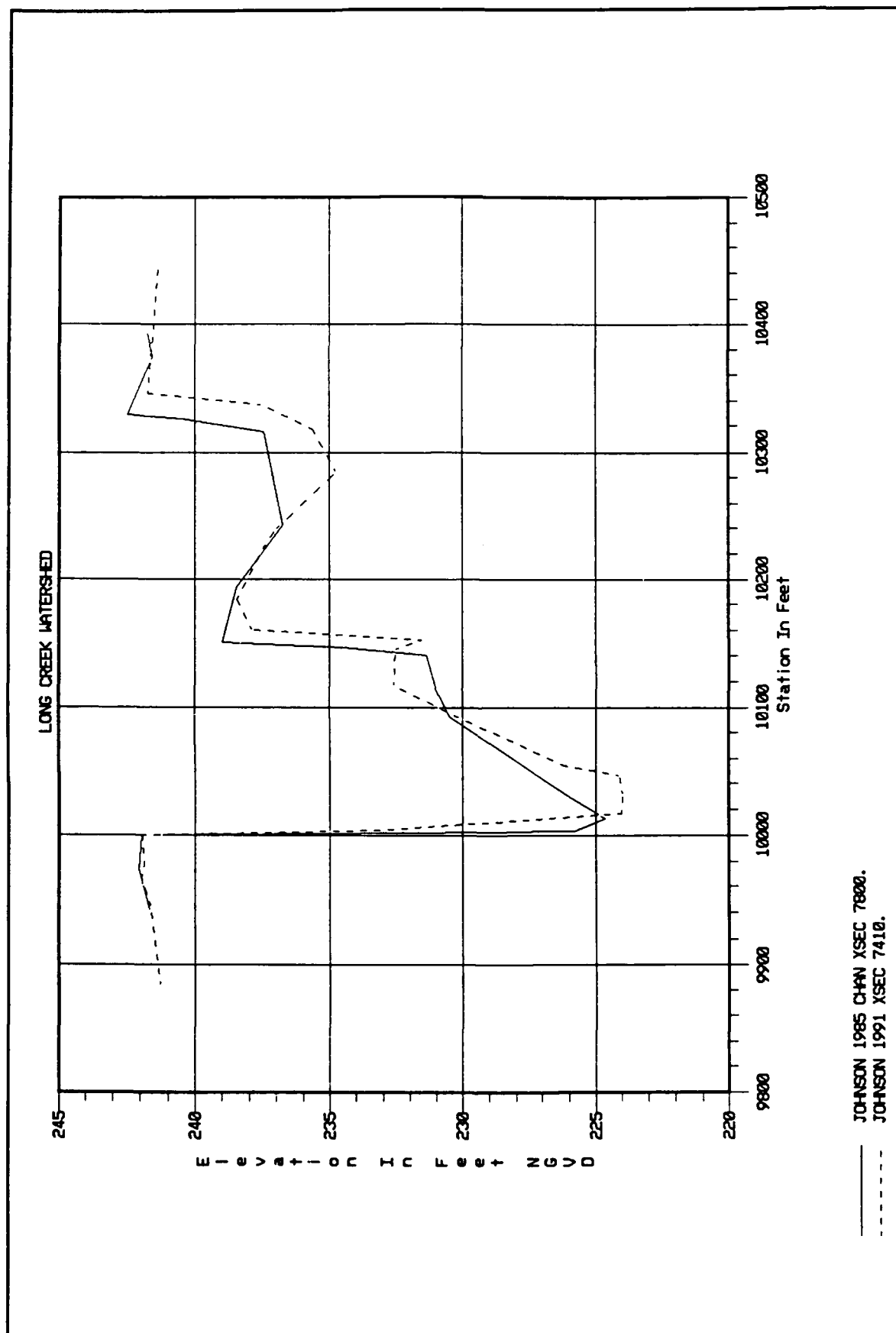
PLATE B50

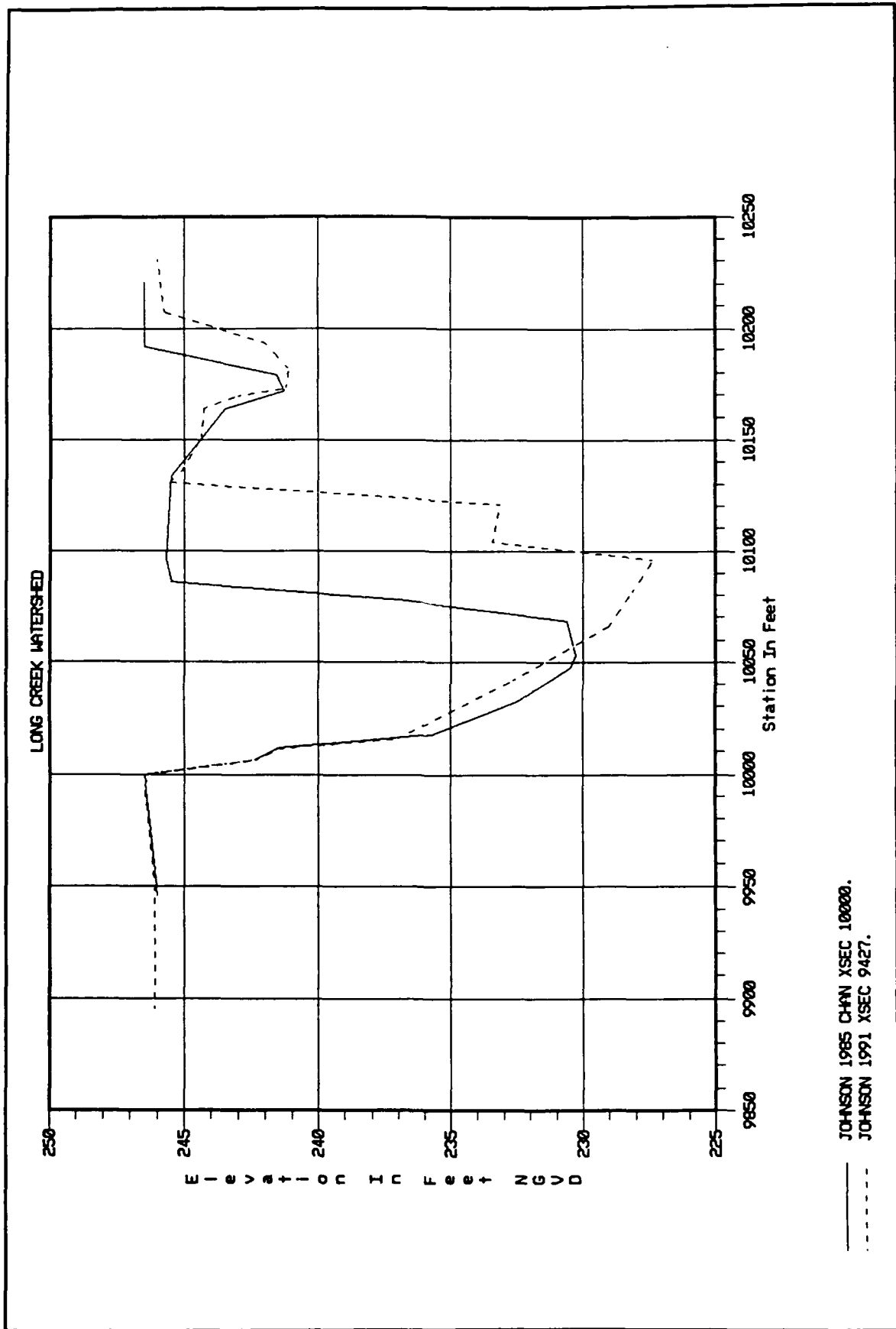


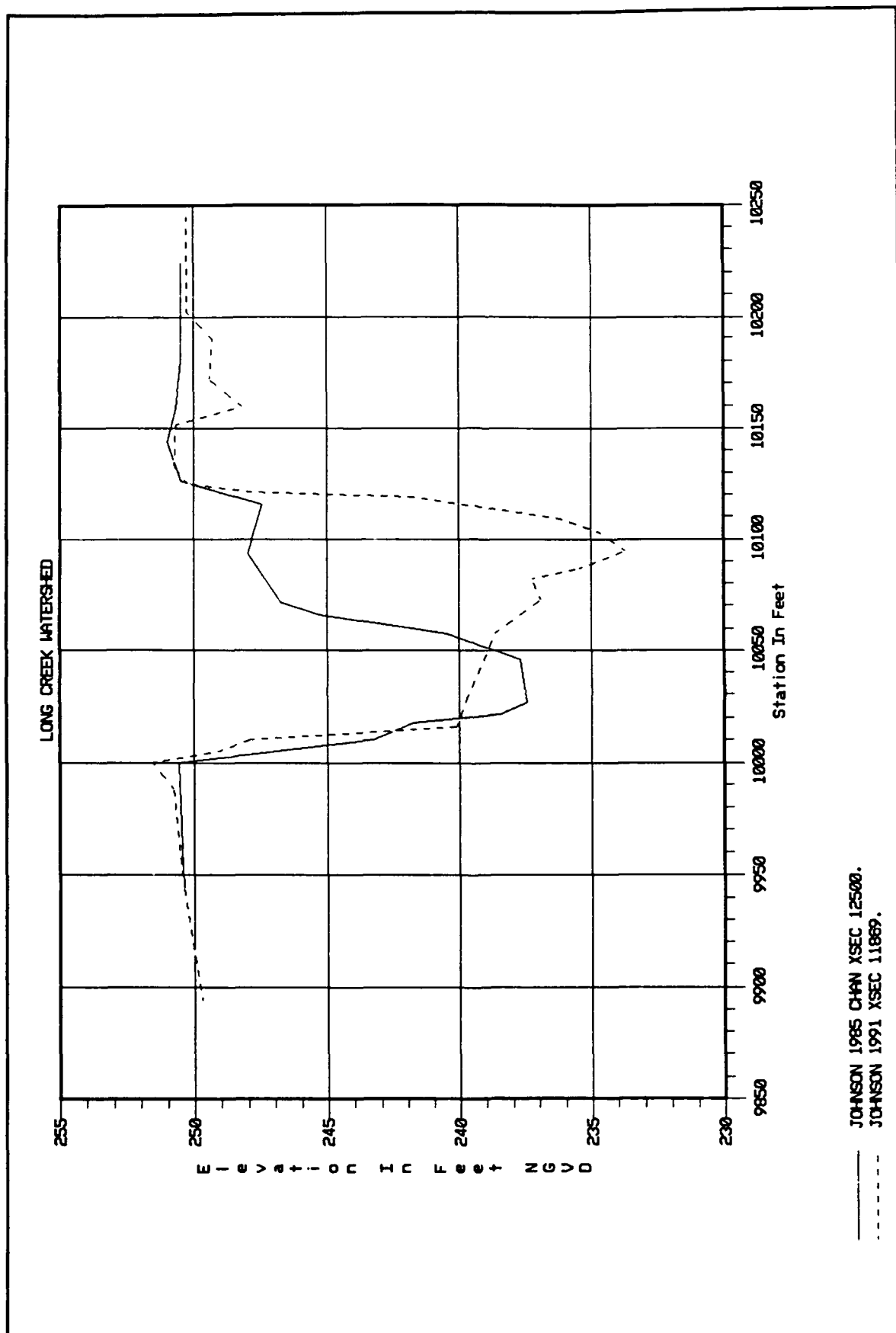
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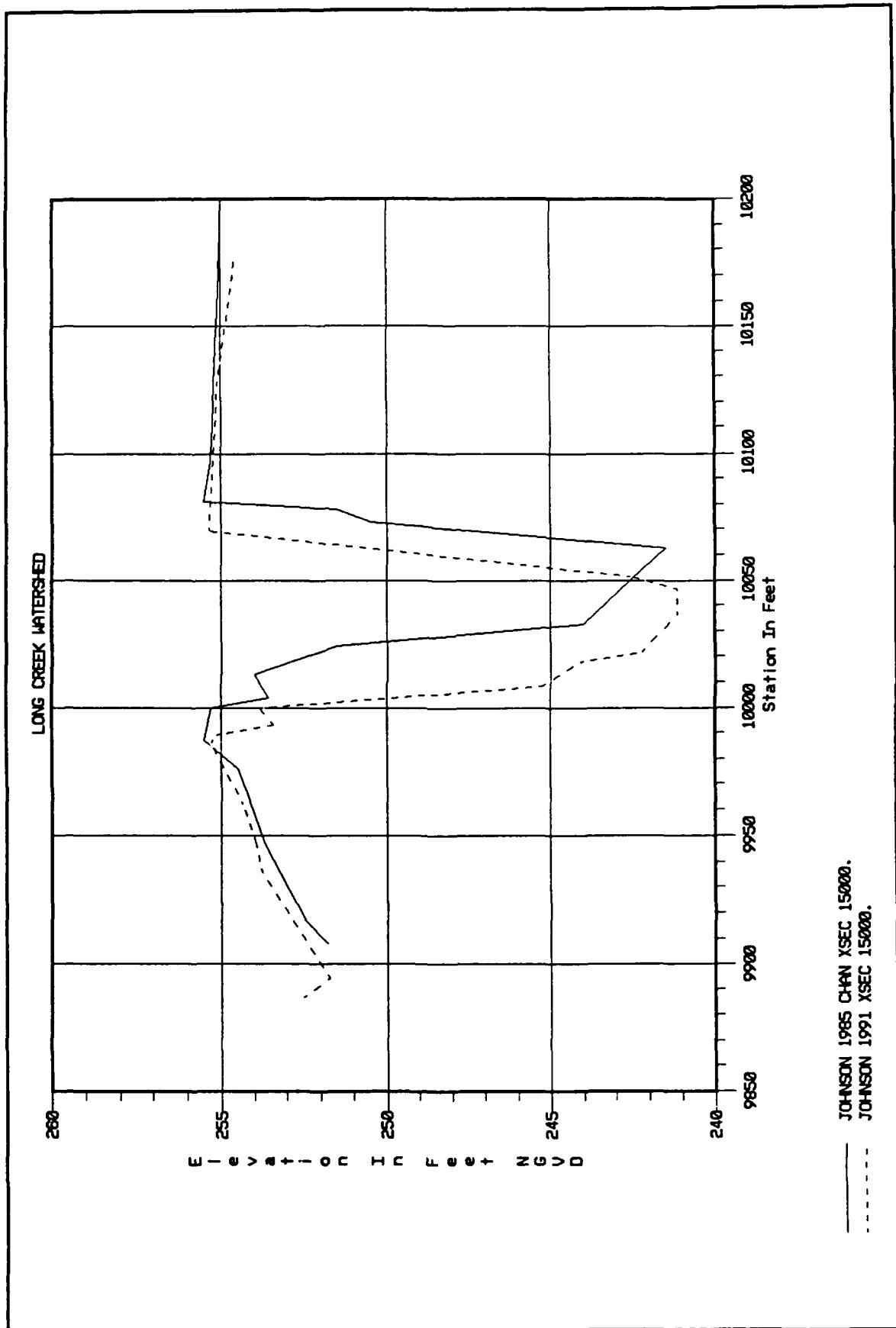


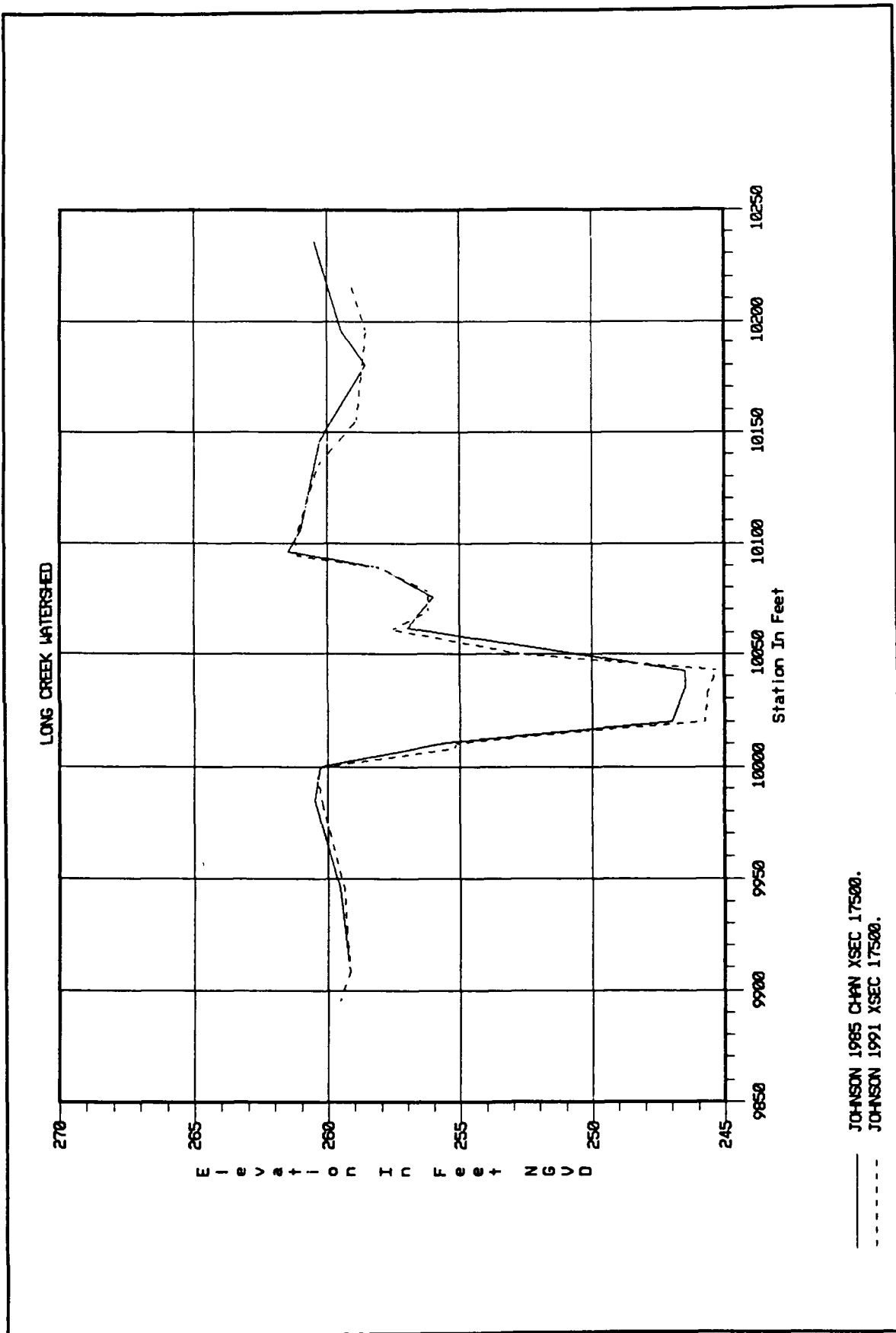


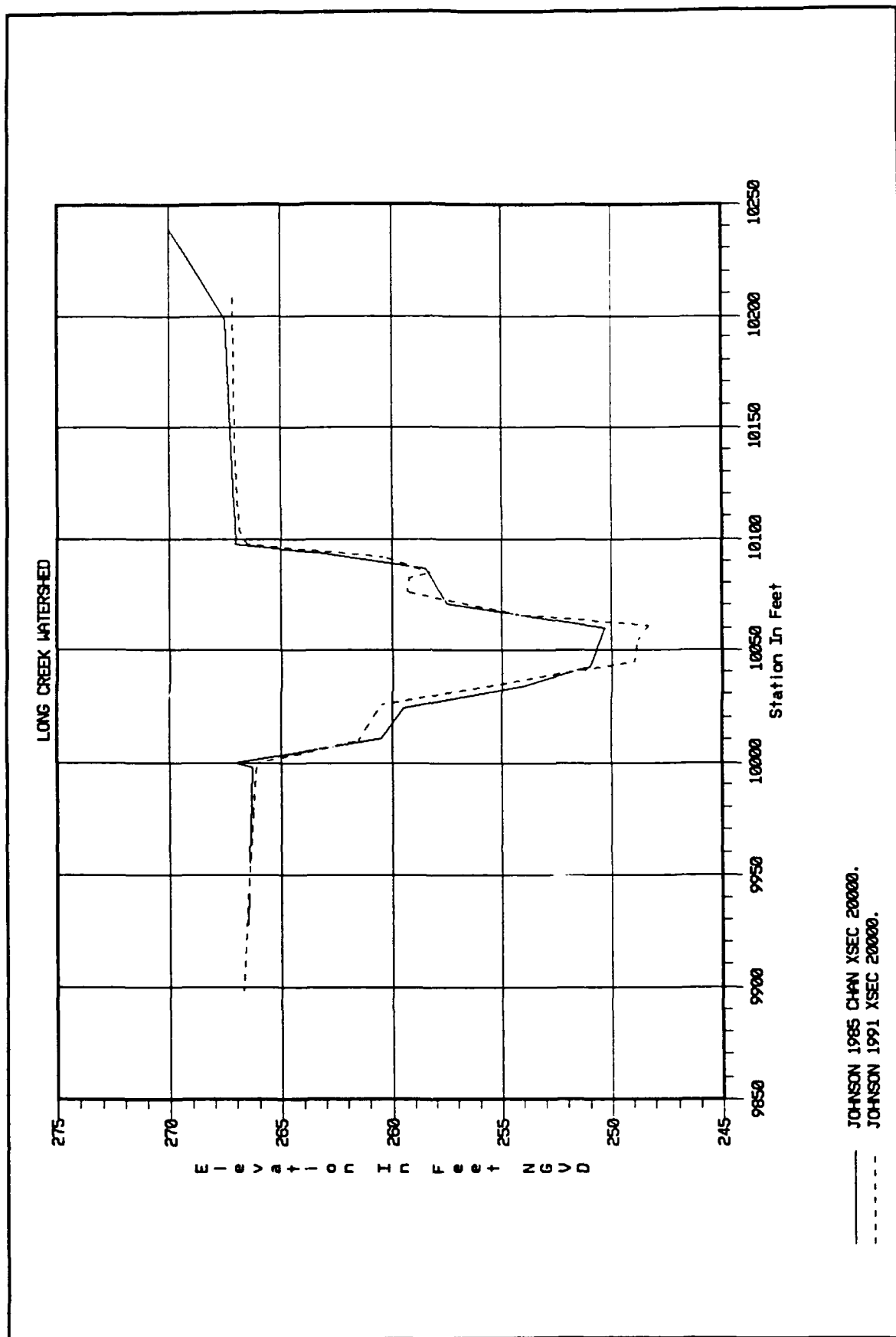












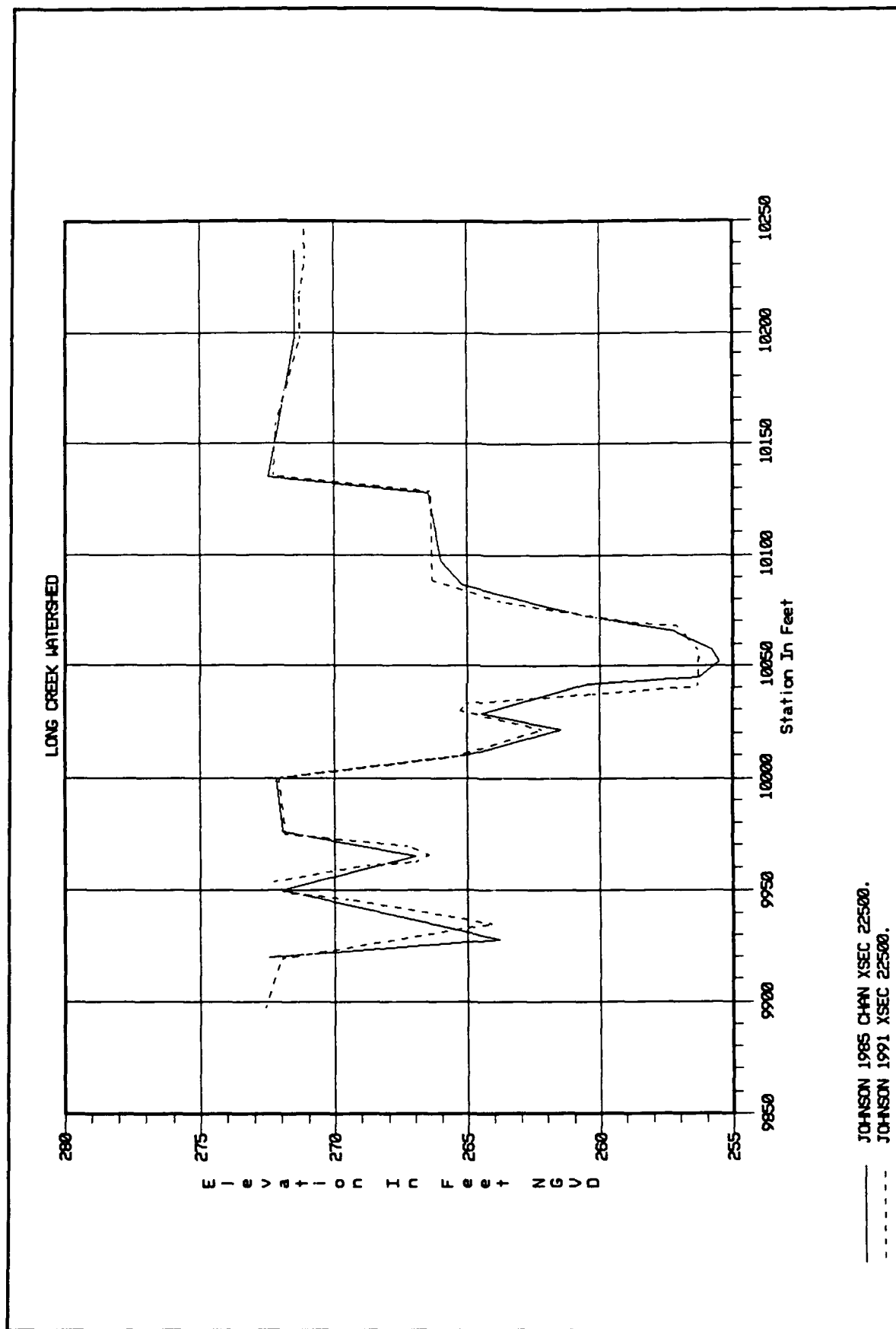
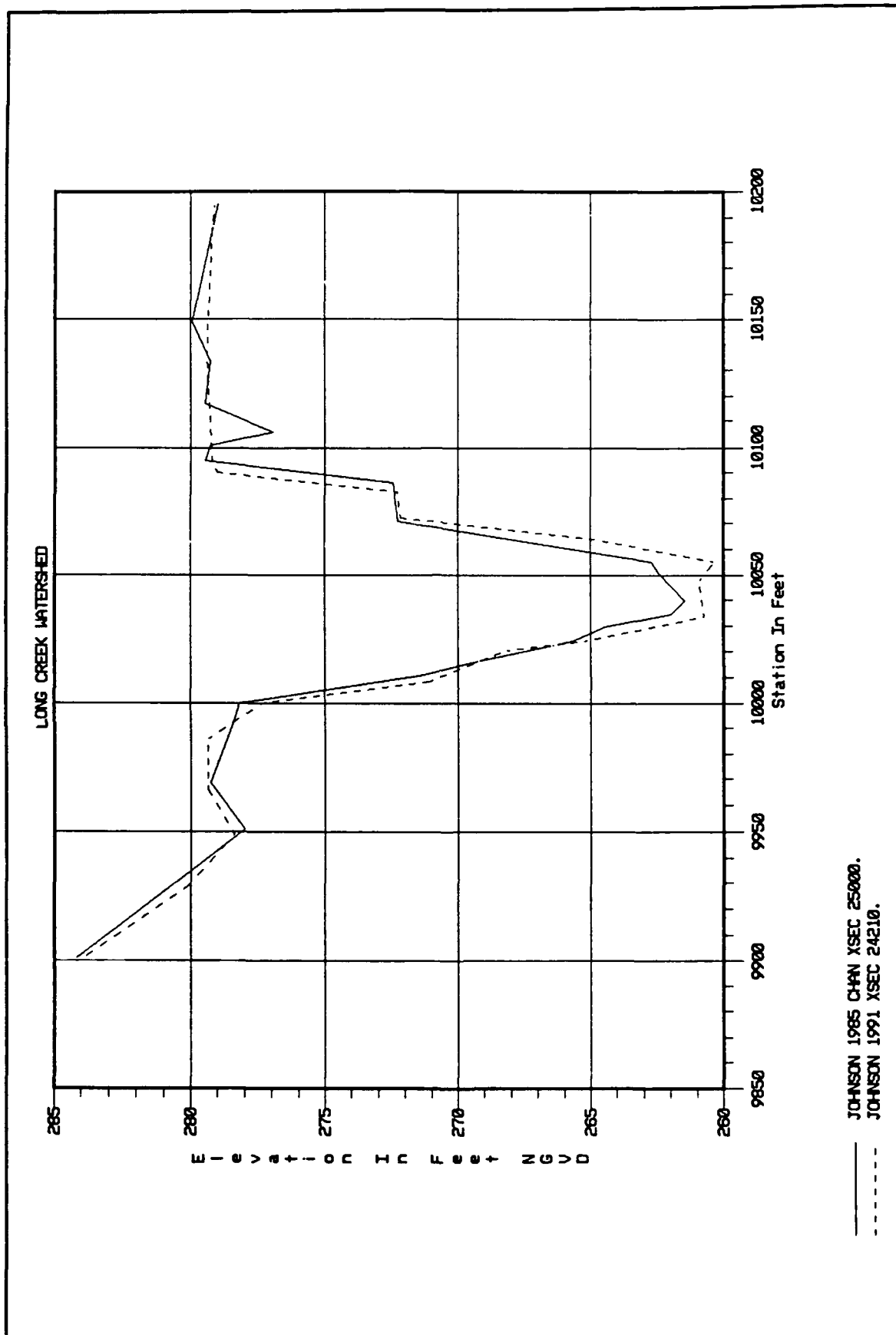
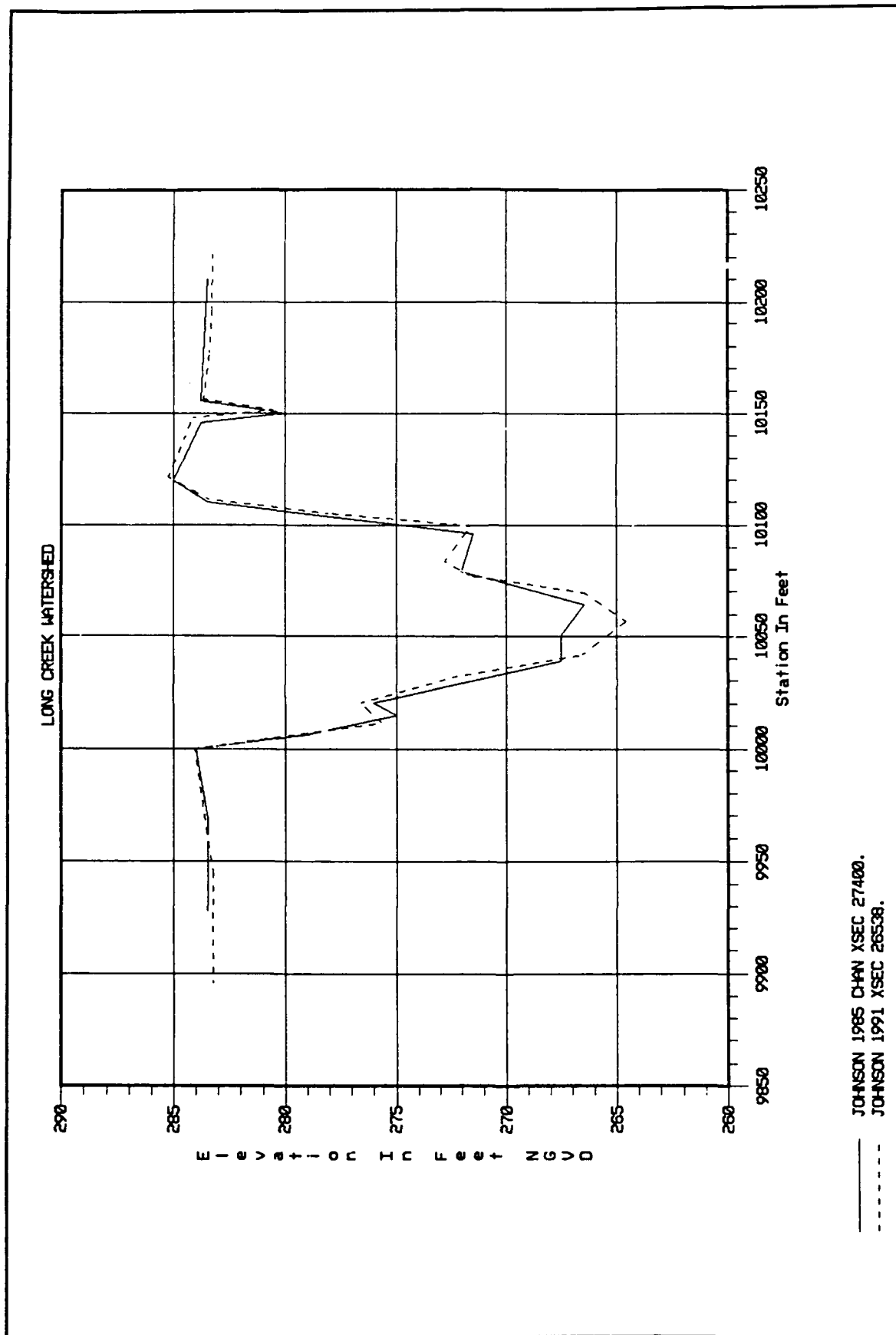


PLATE B60





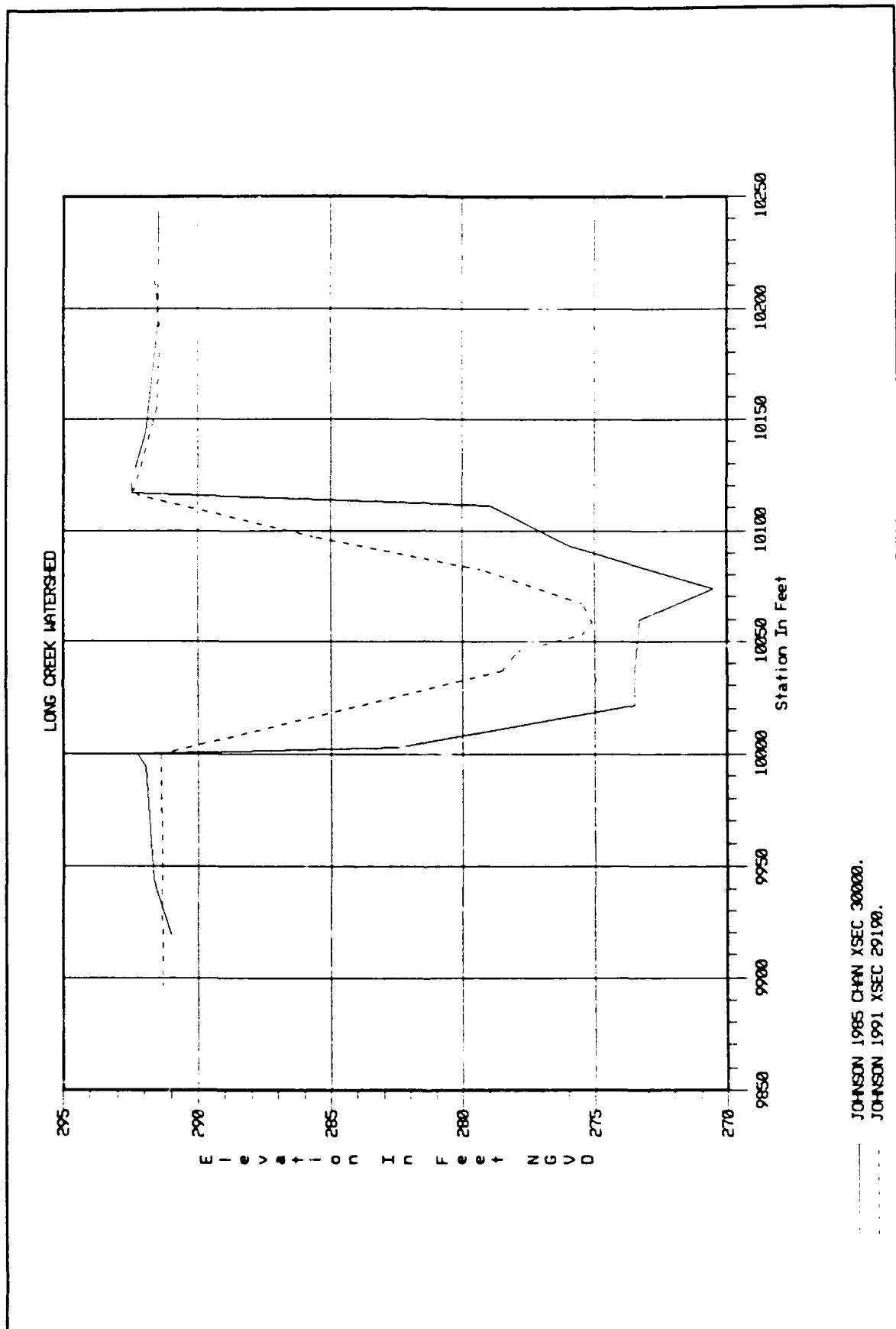
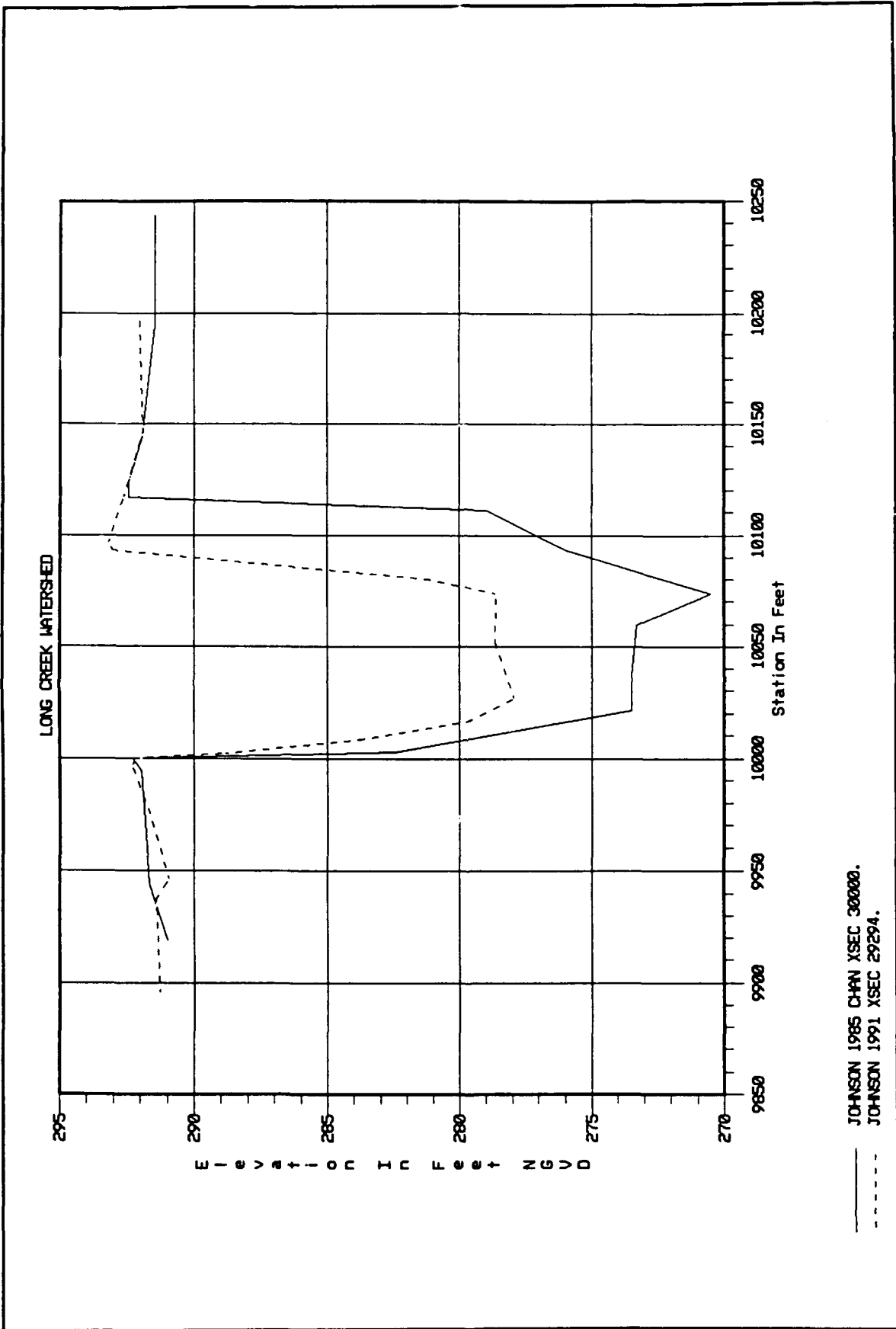
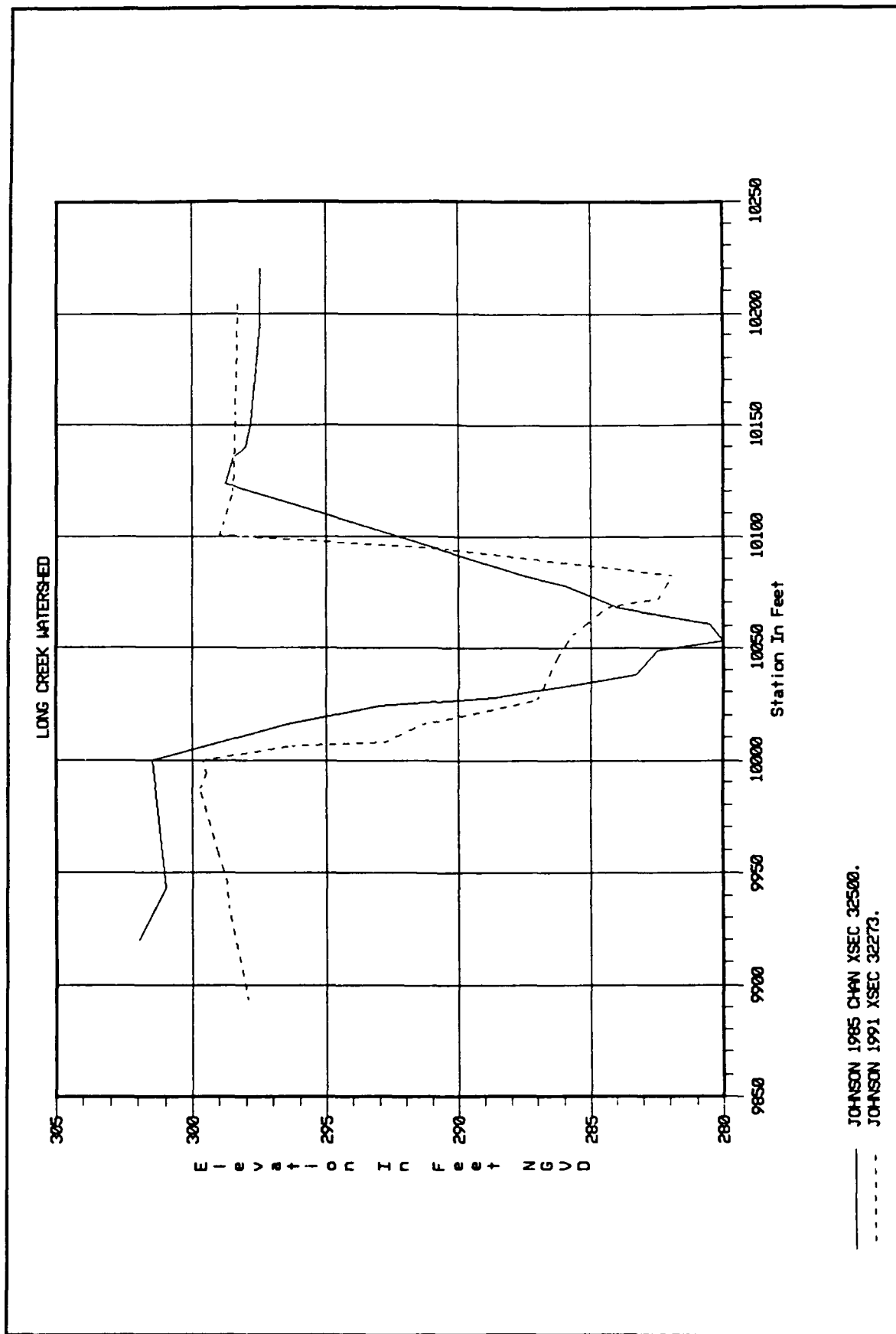
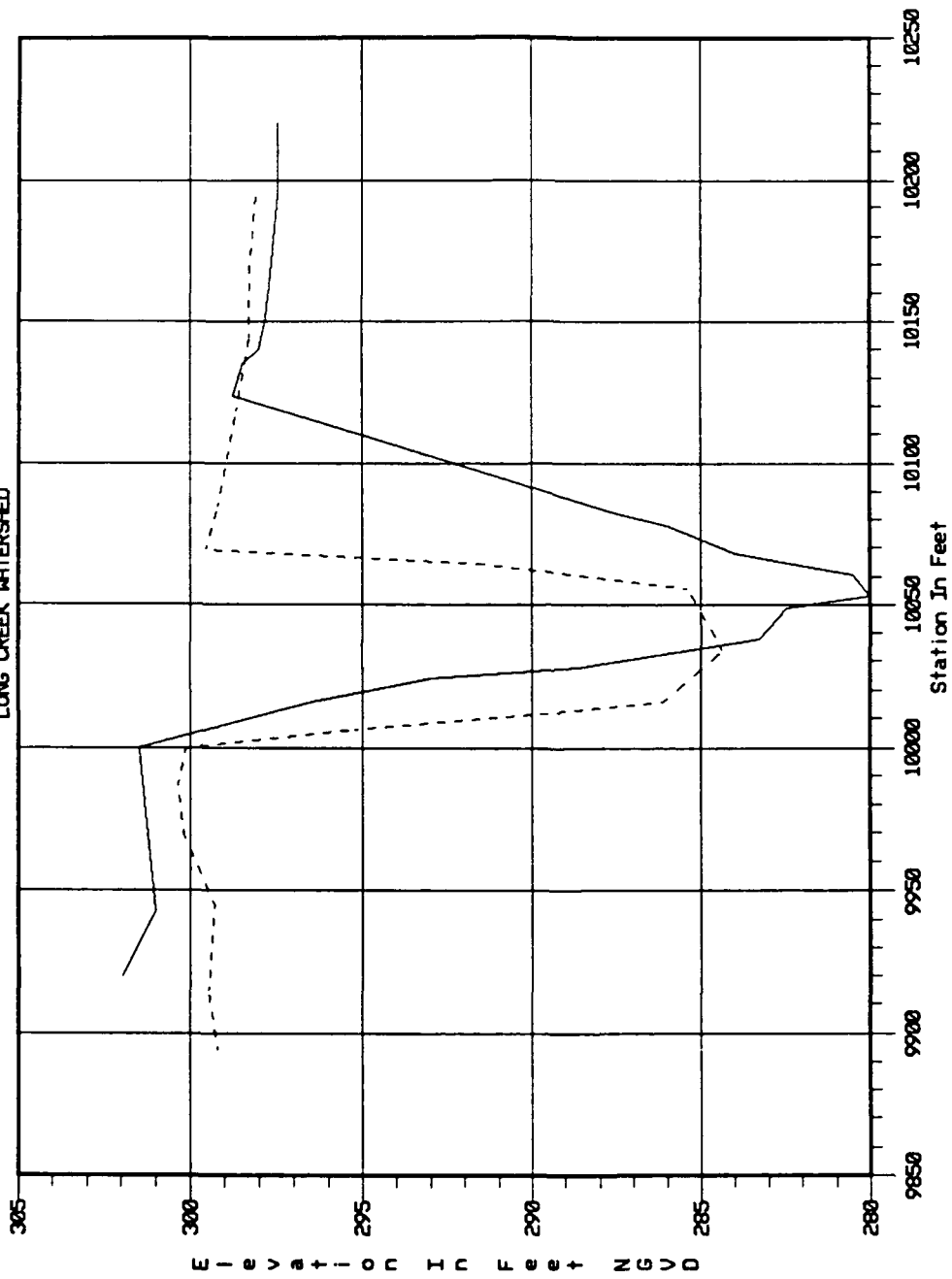


PLATE B64

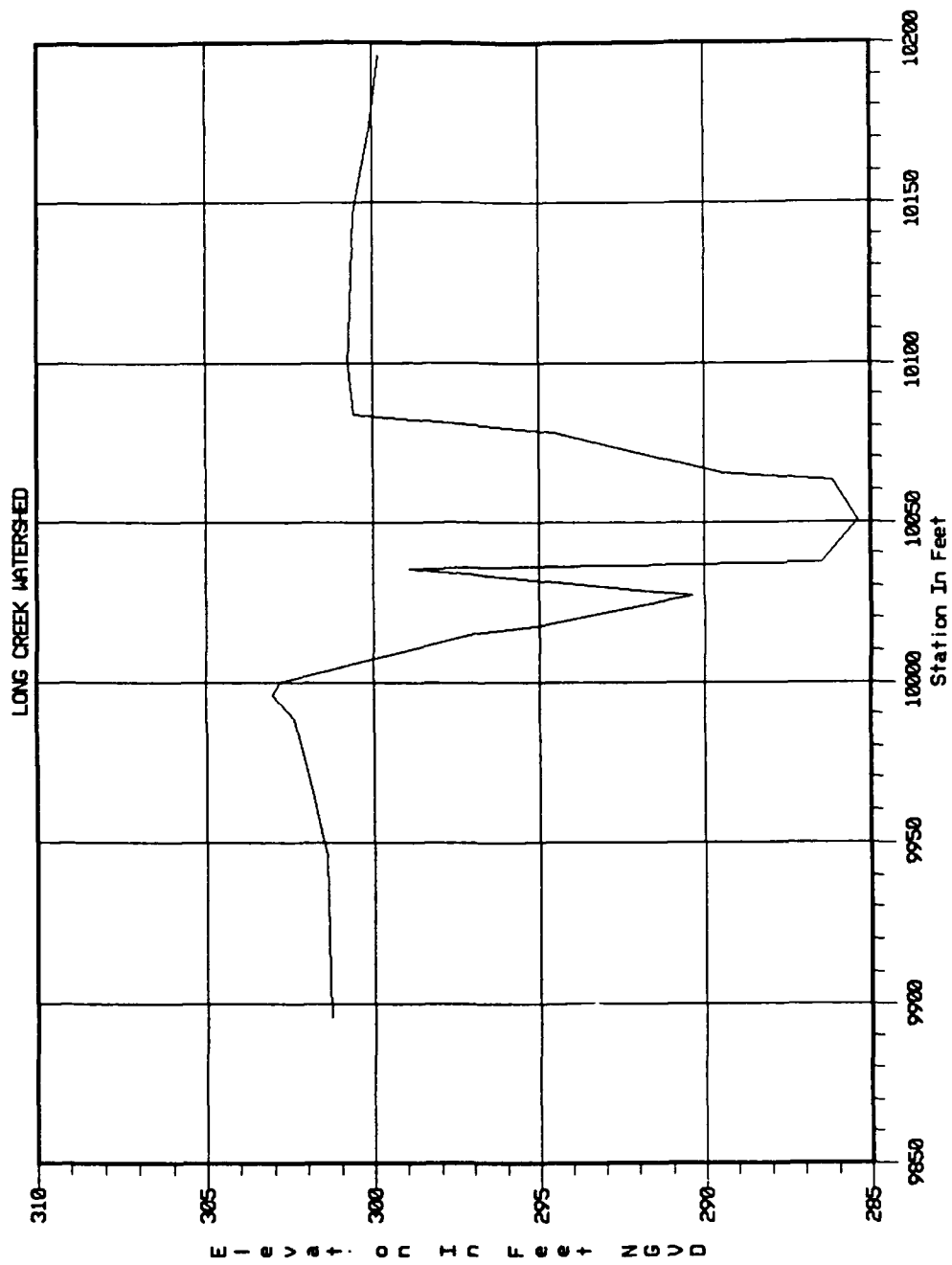




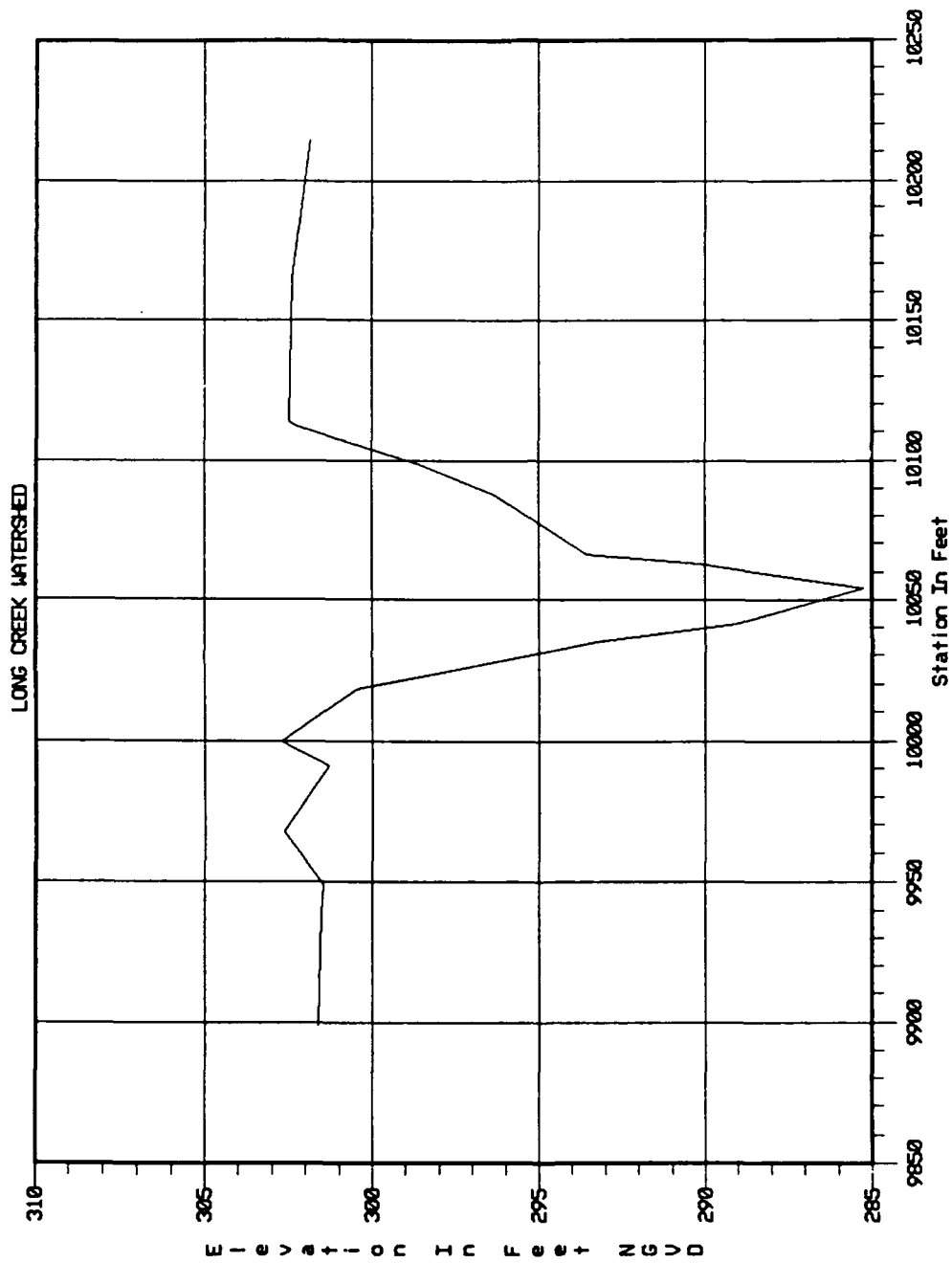
LONG CREEK WATERSHED



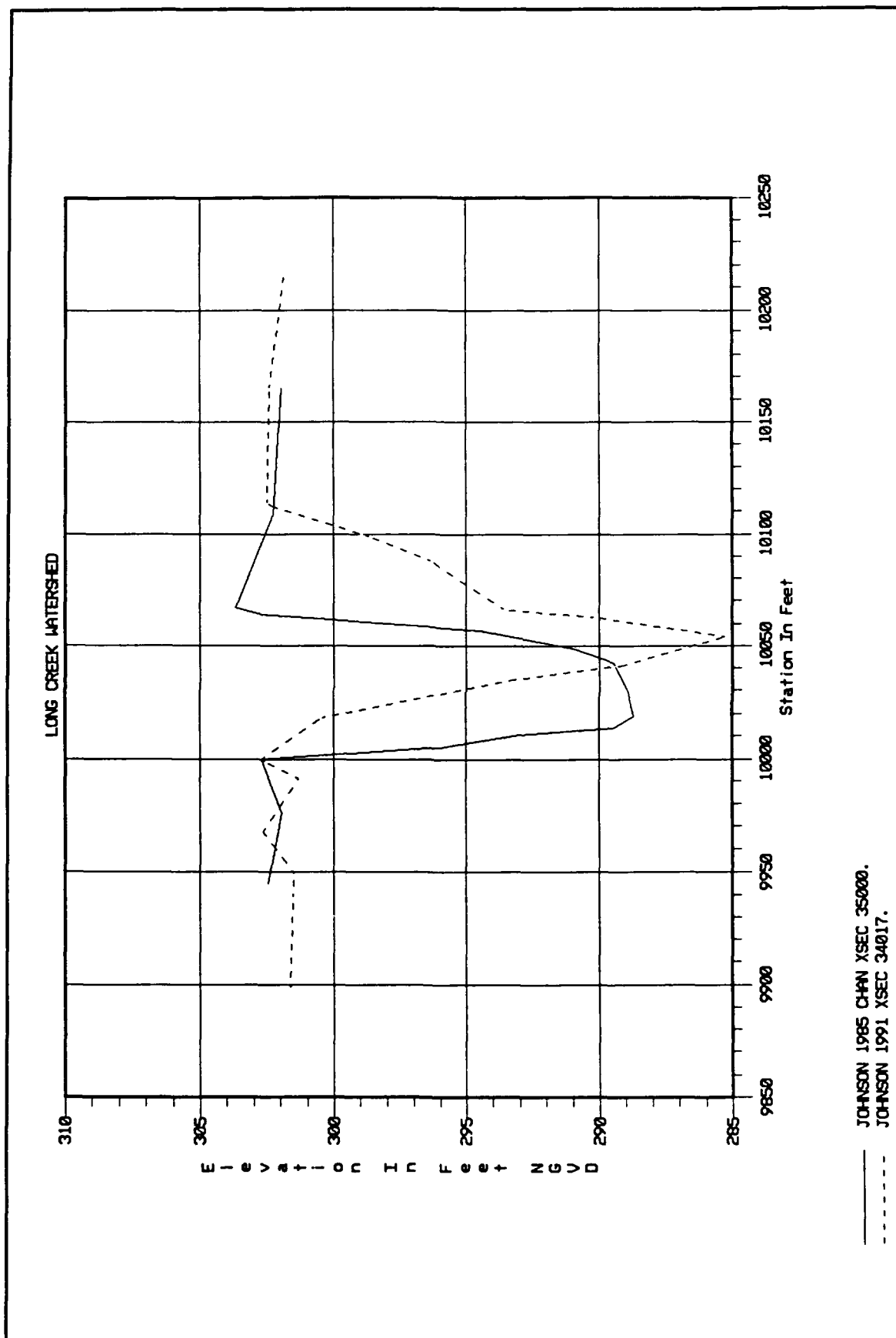
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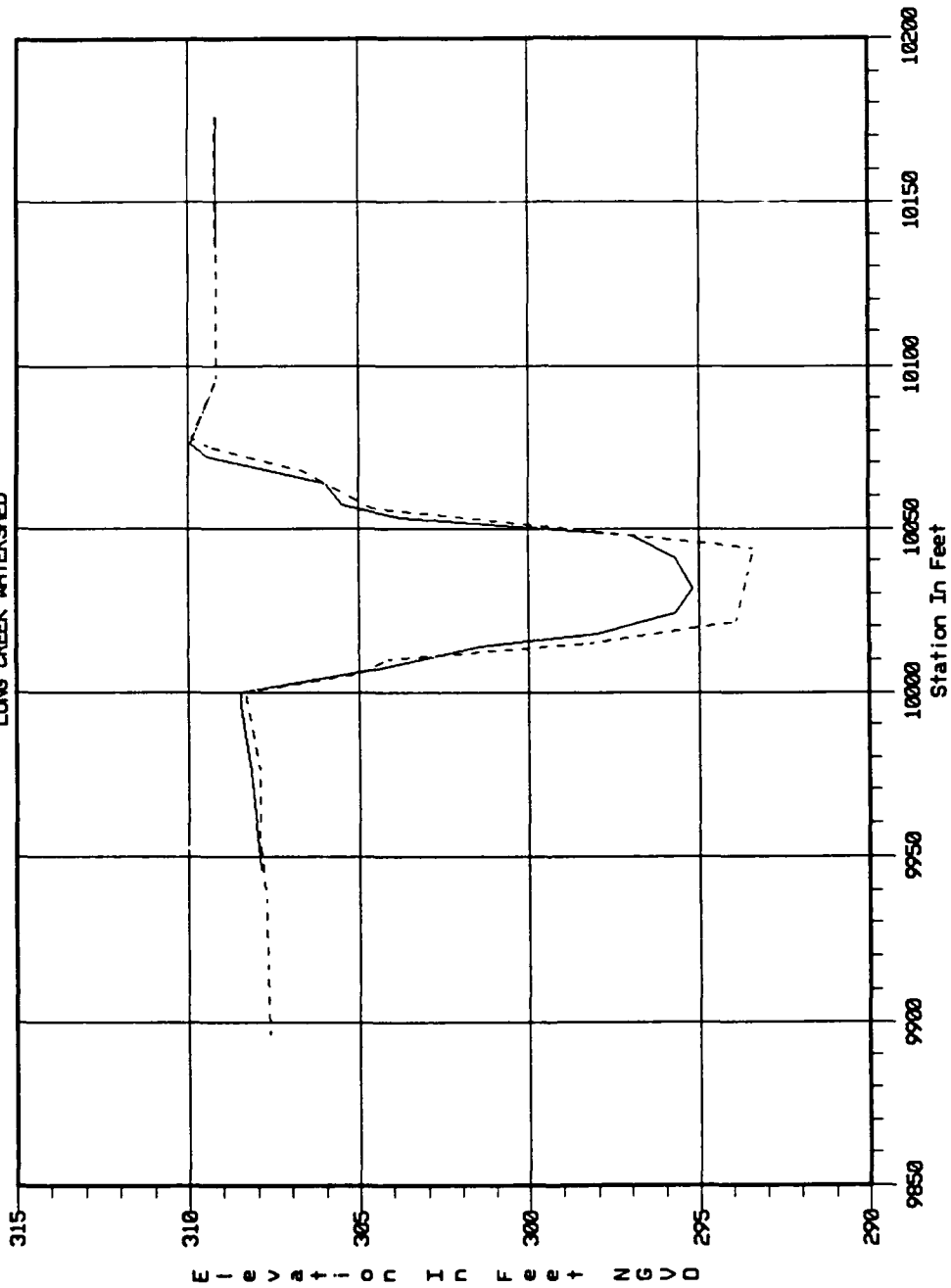
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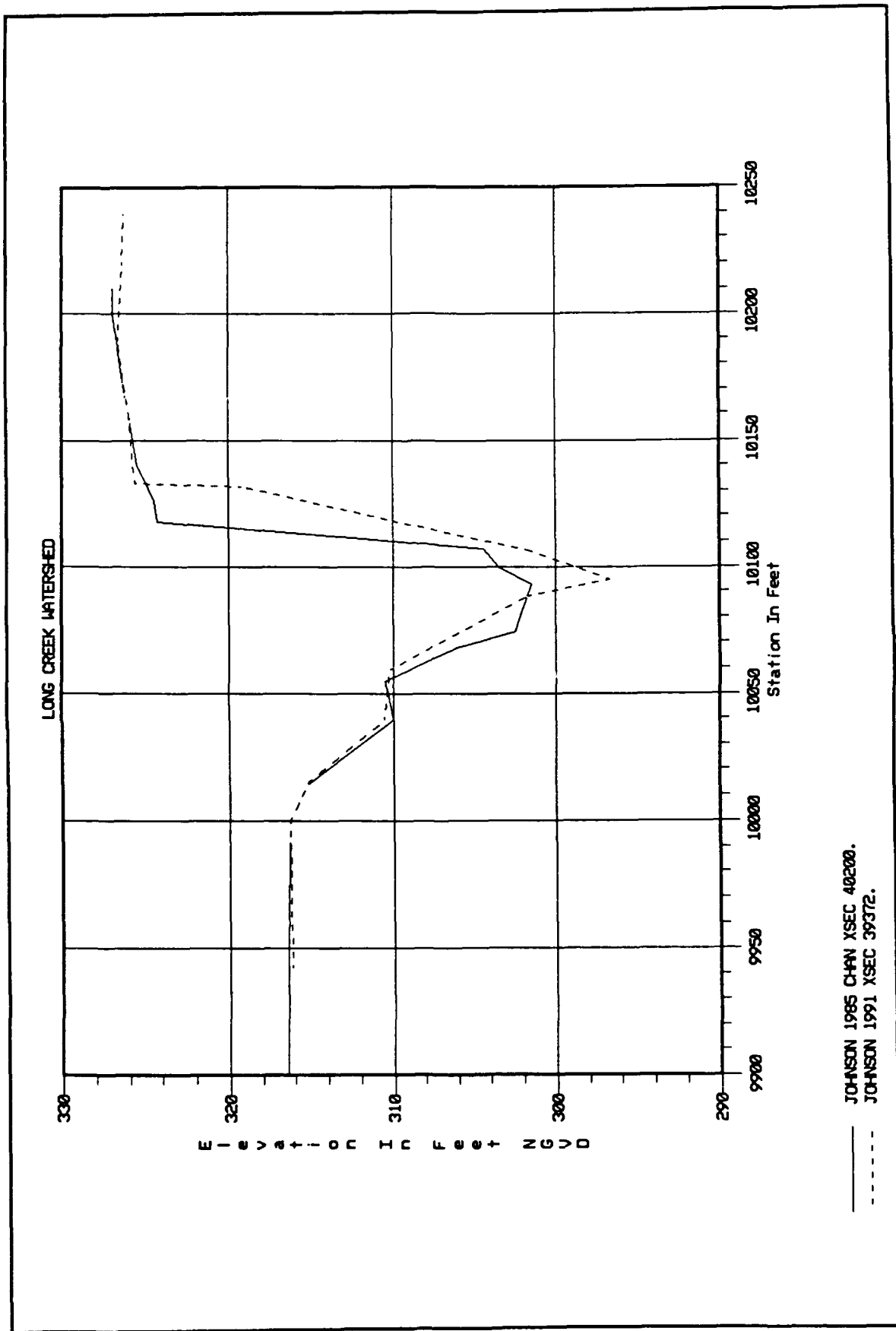
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LONG CREEK WATERSHED



— JOHNSON 1985 CHAN XSEC 37800.
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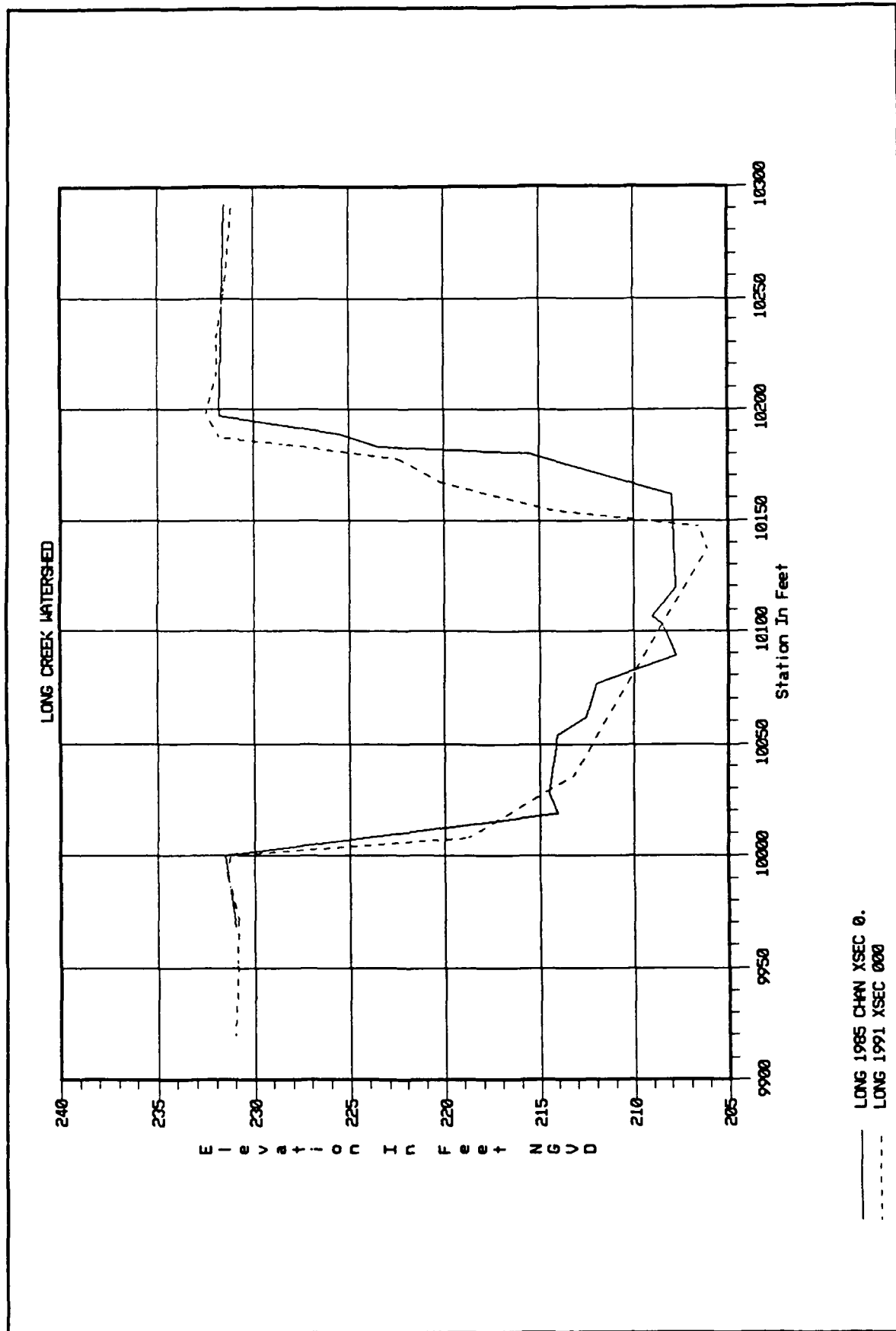
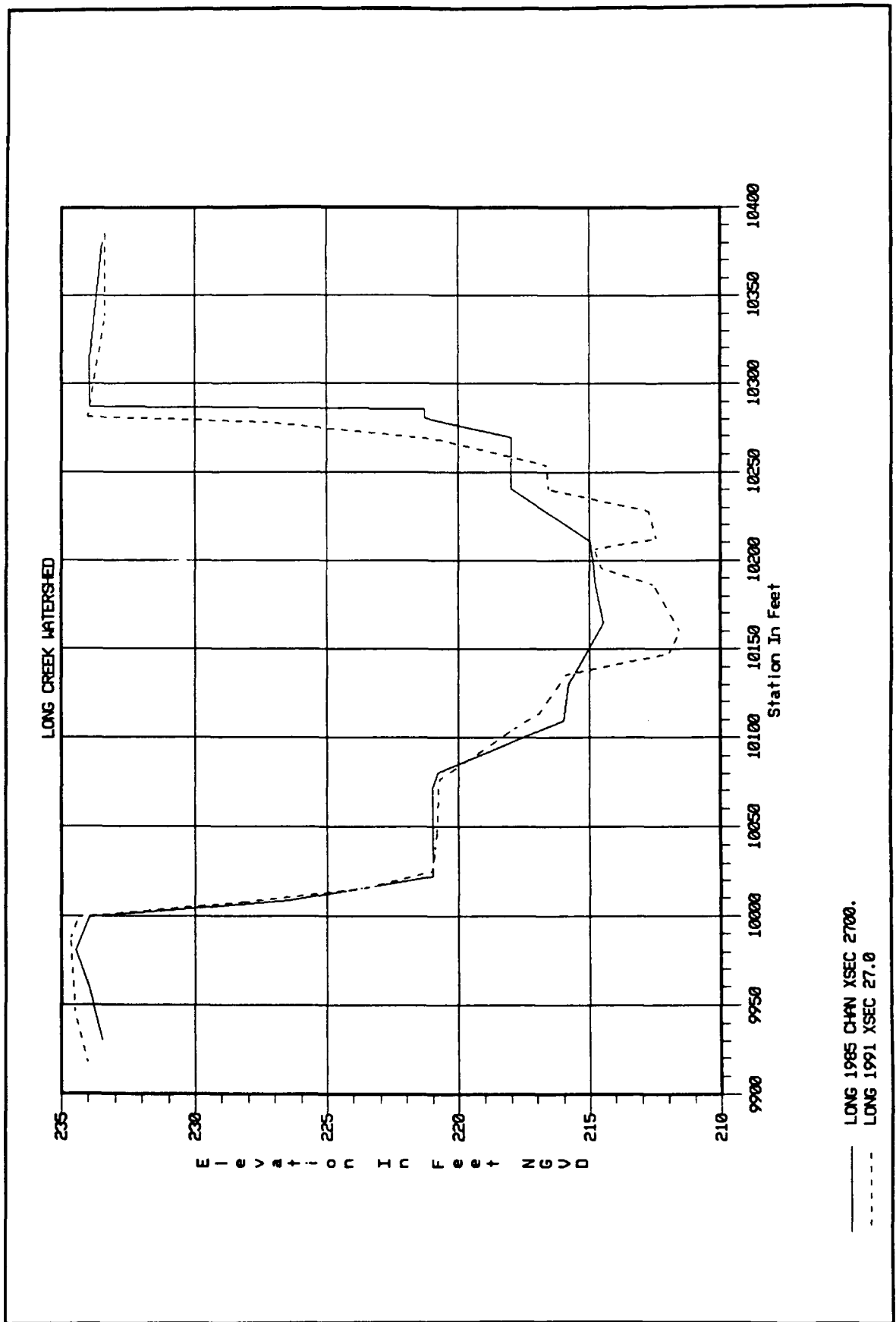


PLATE B72



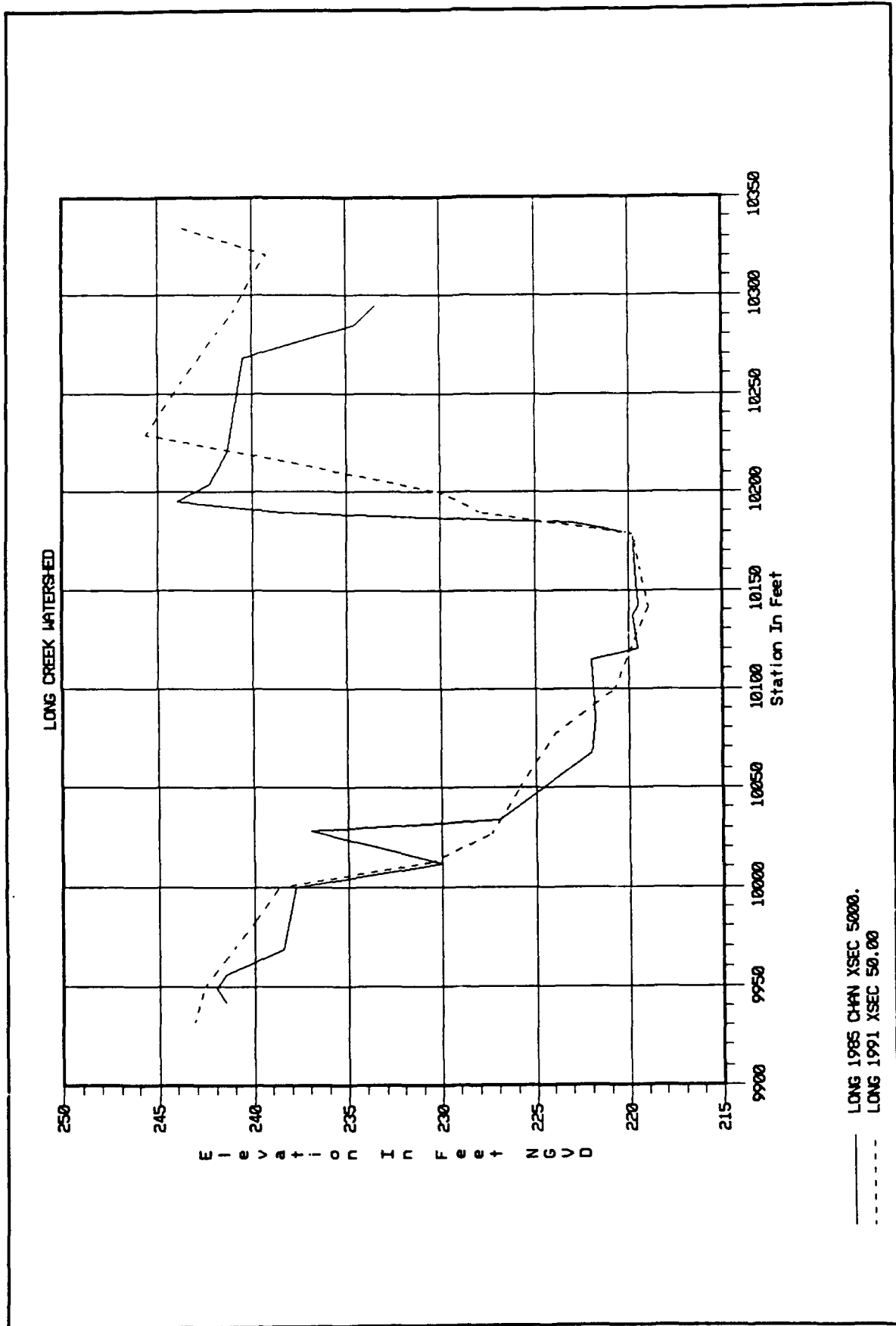


PLATE B74

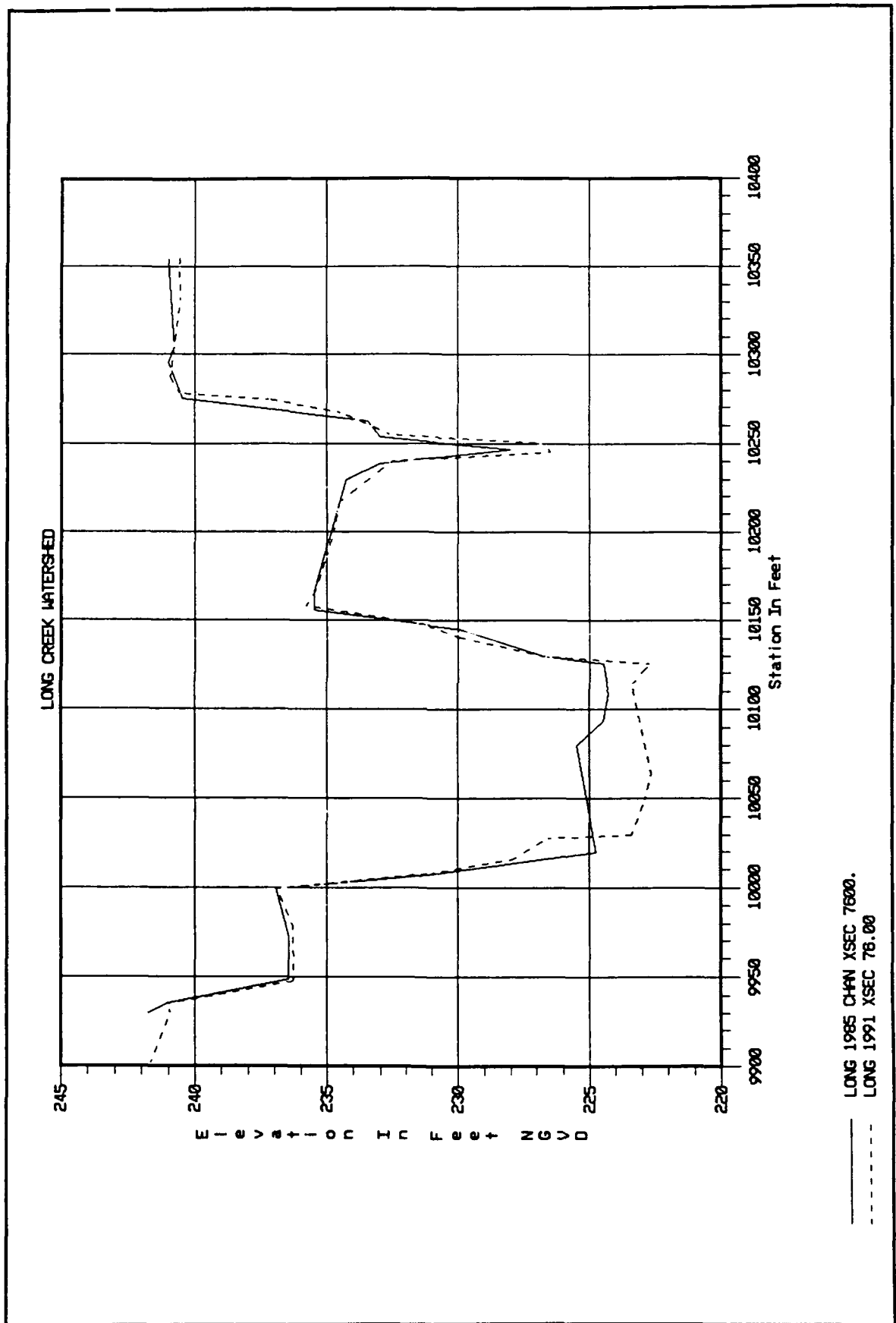
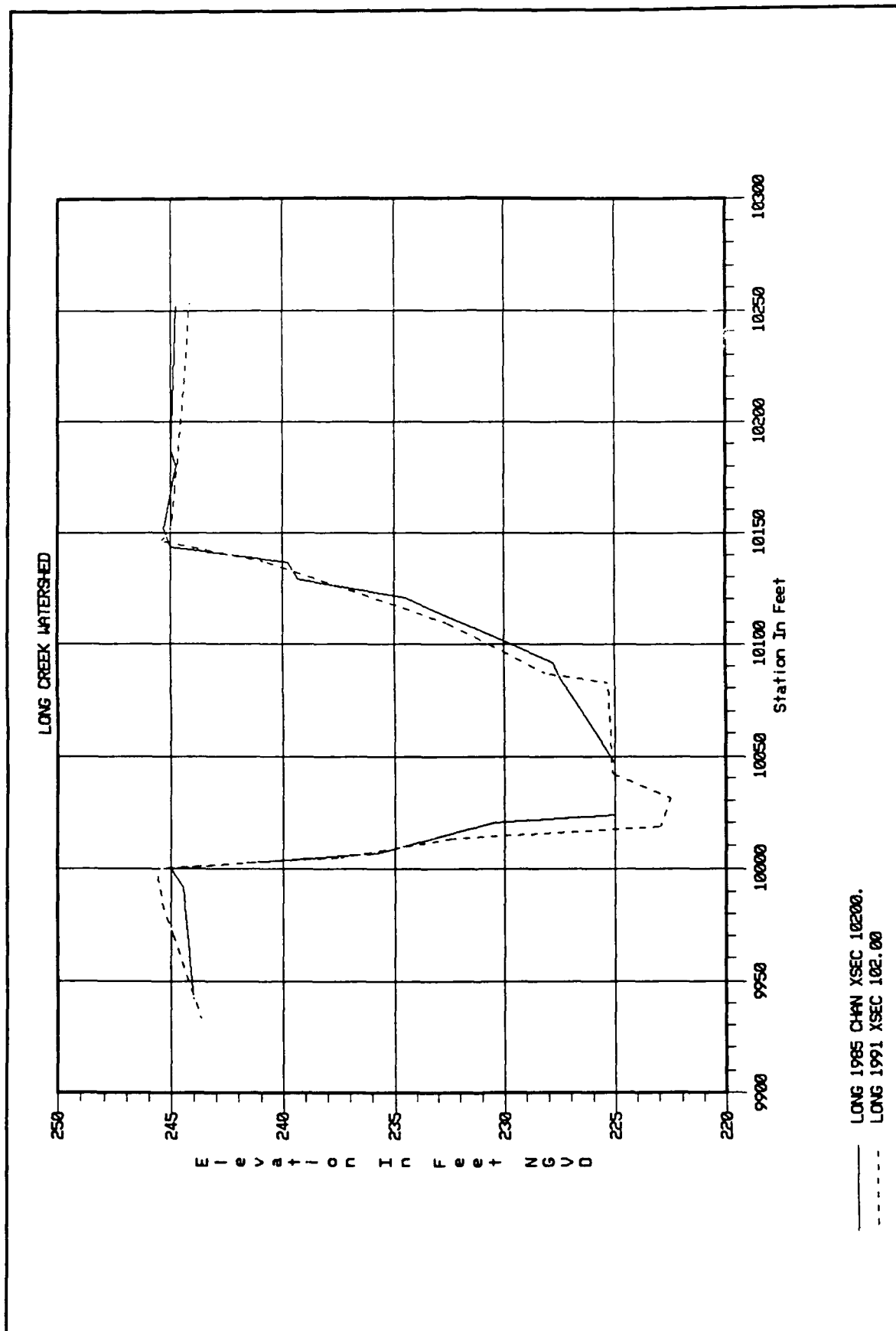
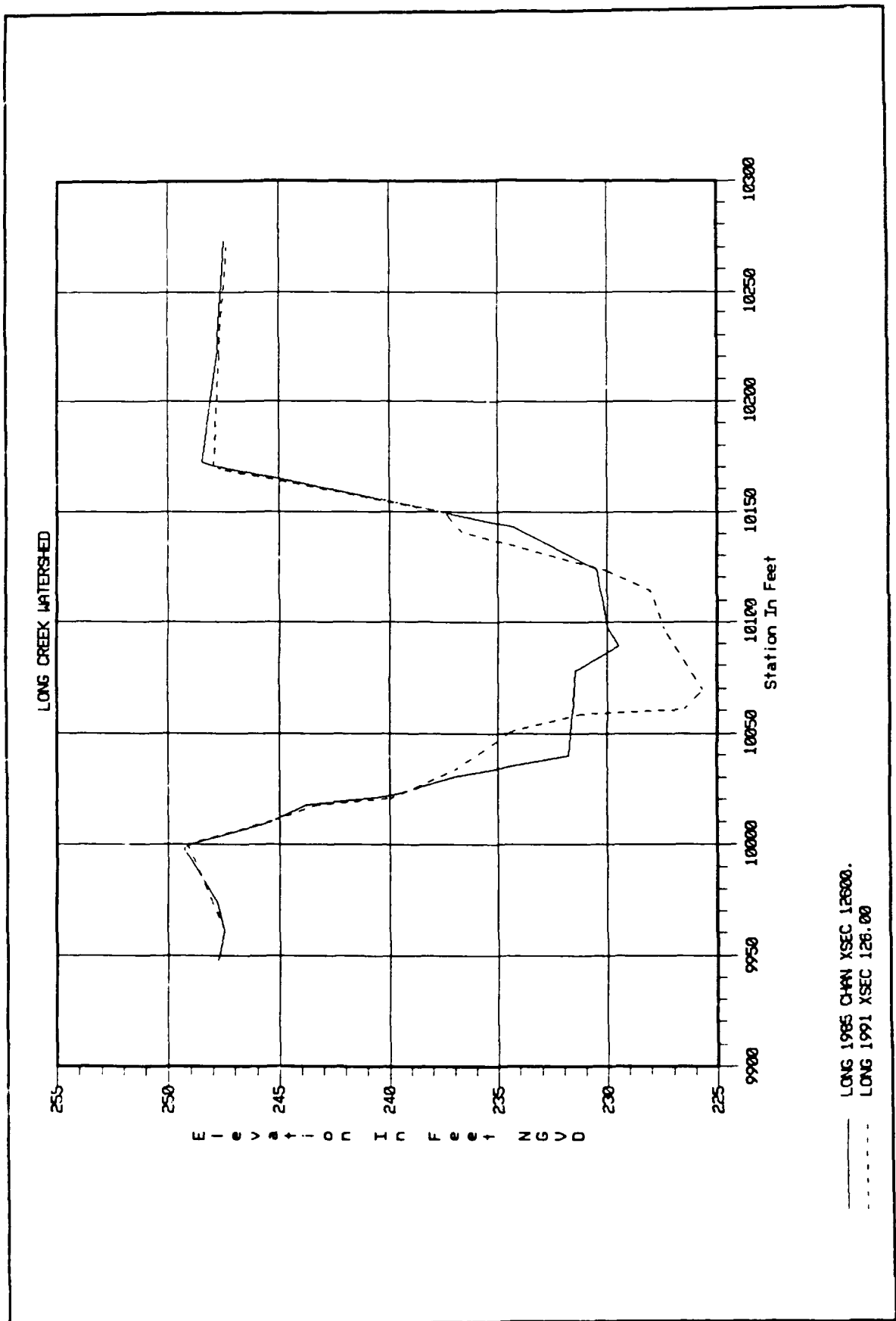


PLATE B75





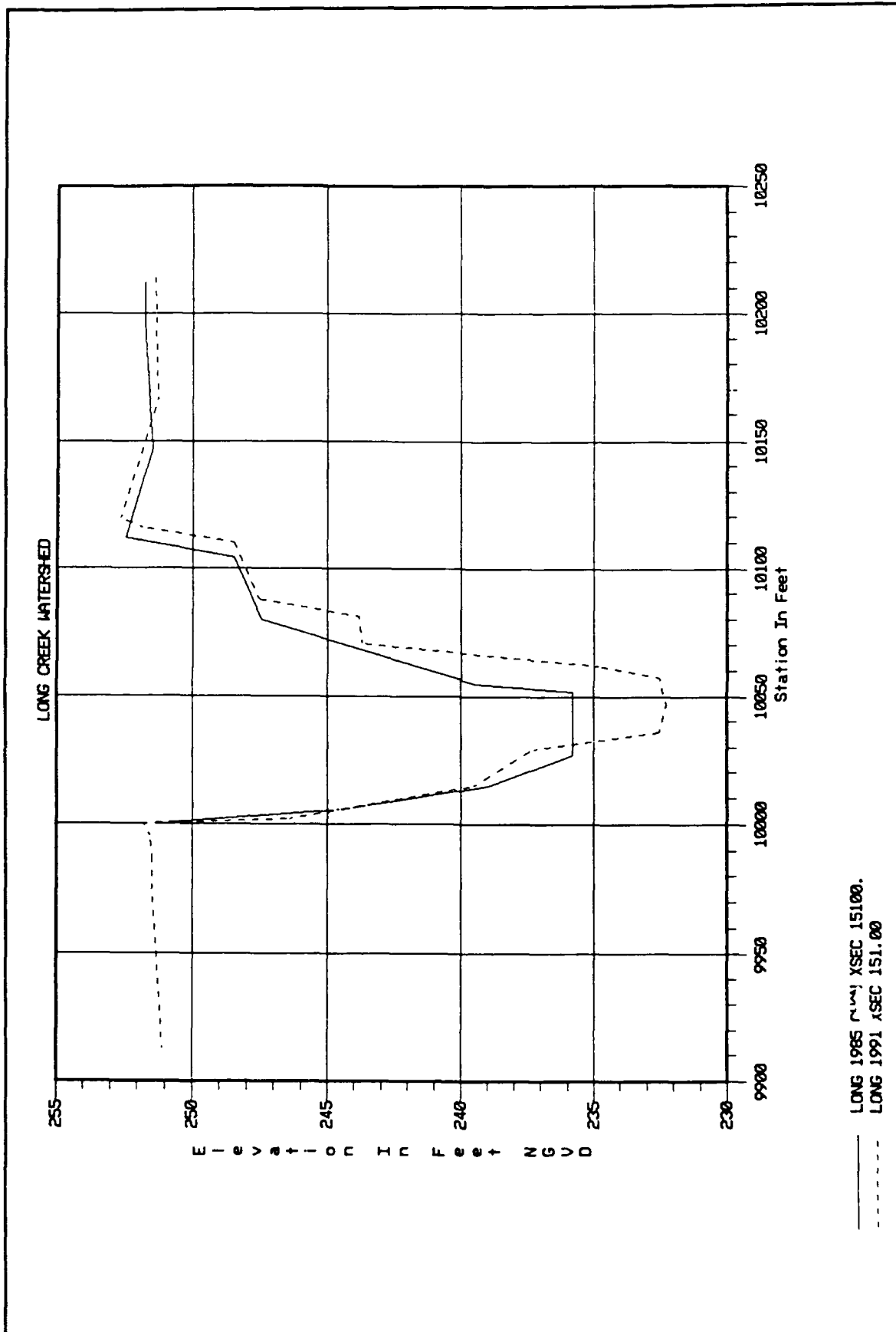
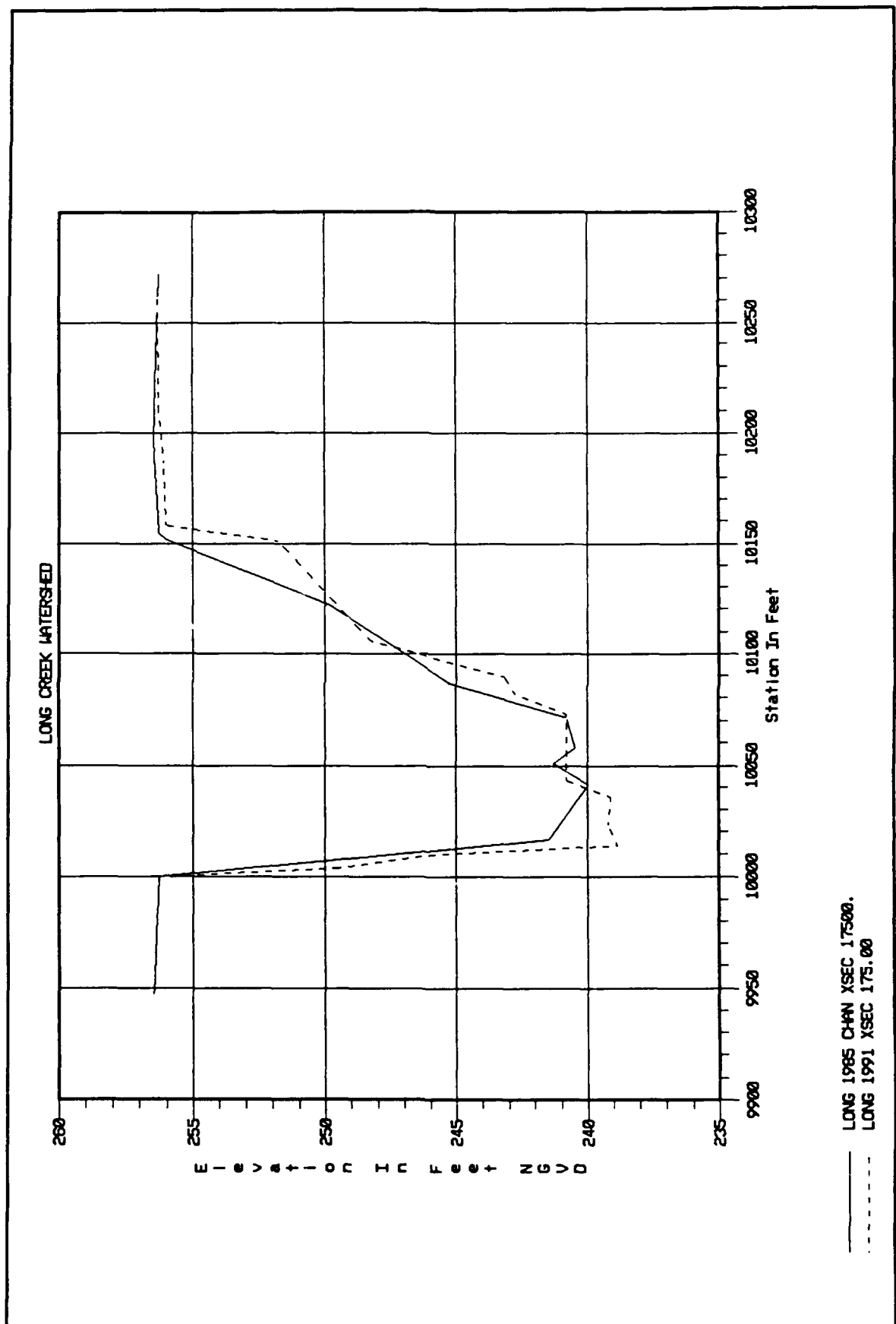


PLATE B78



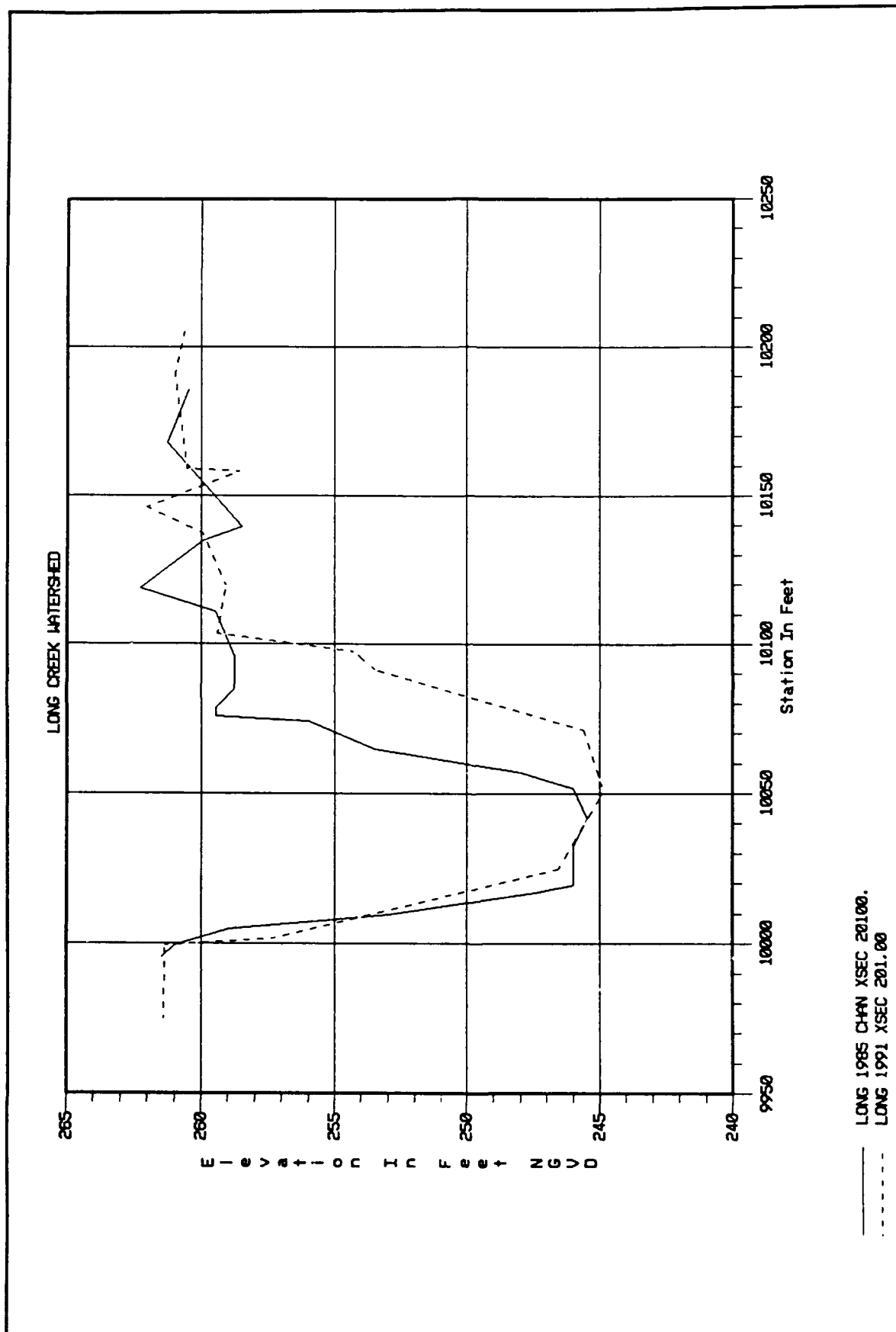


PLATE B80

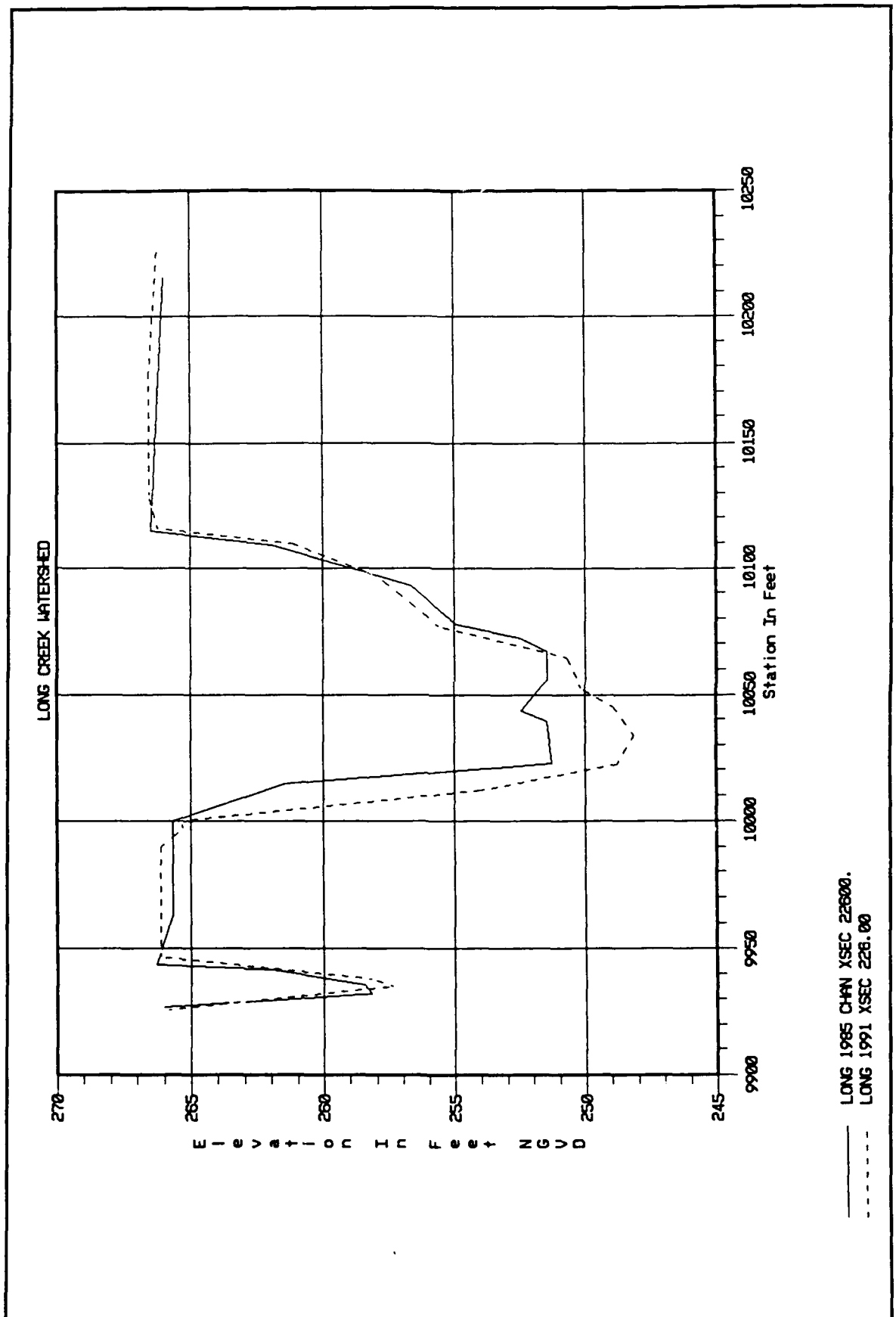
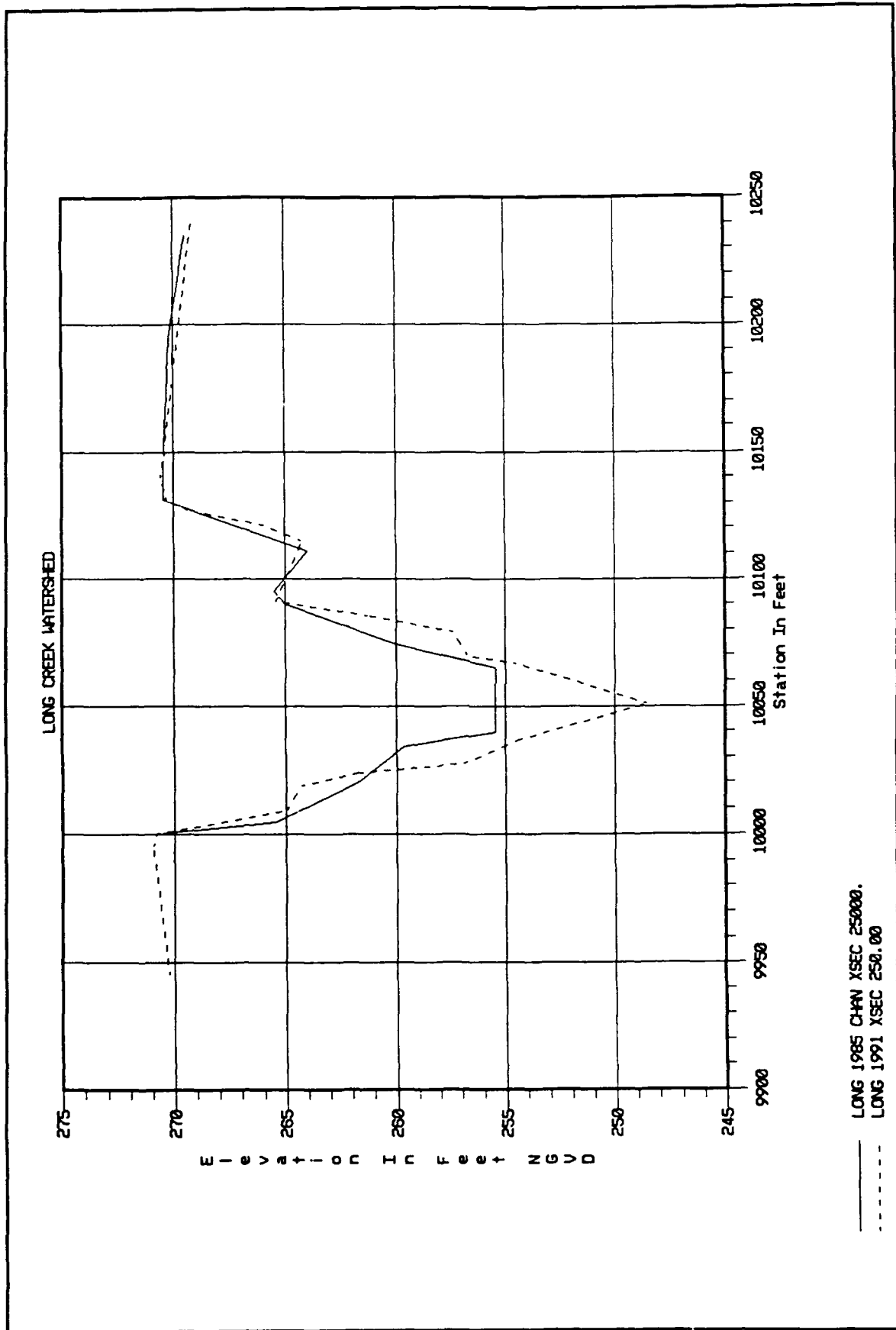
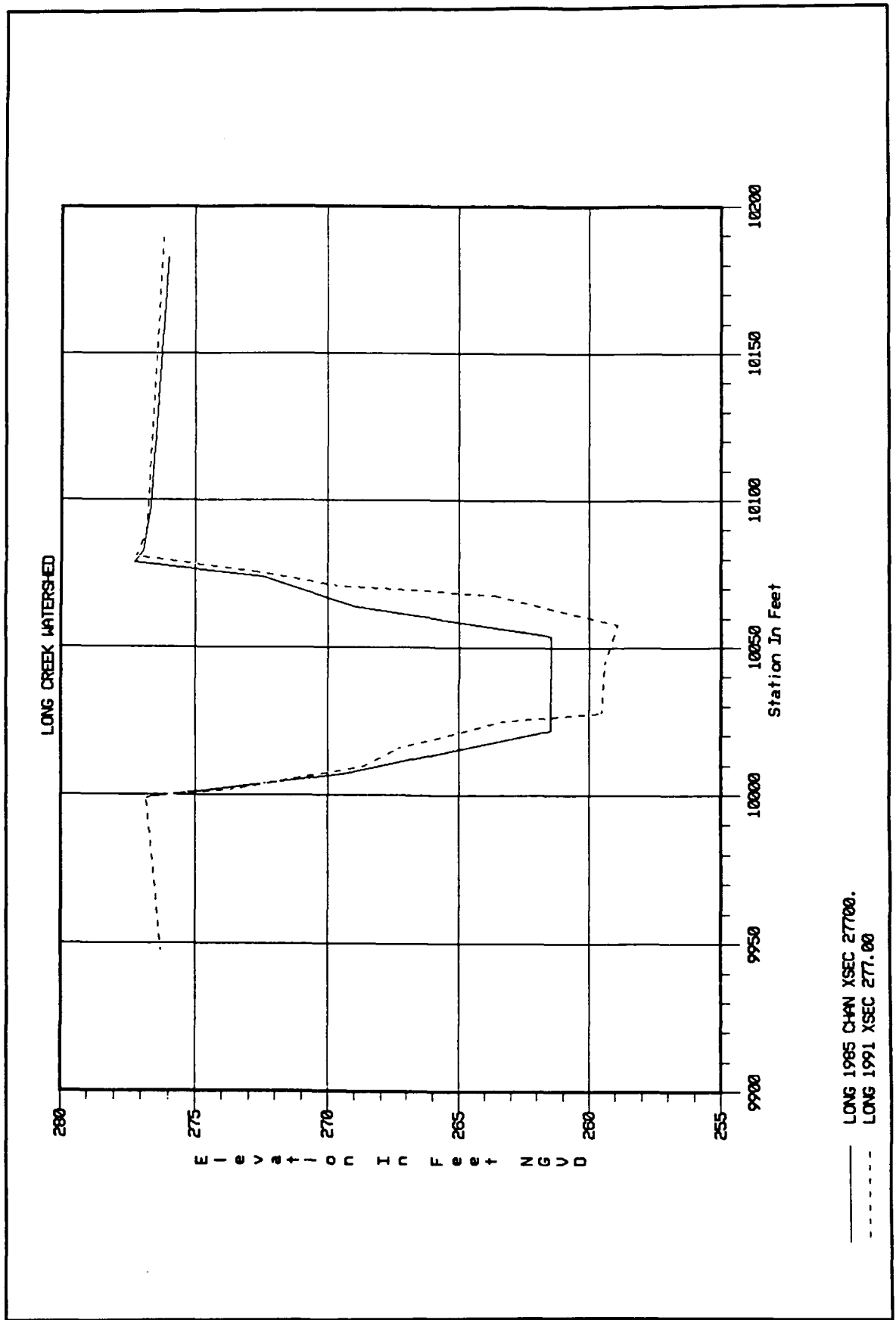
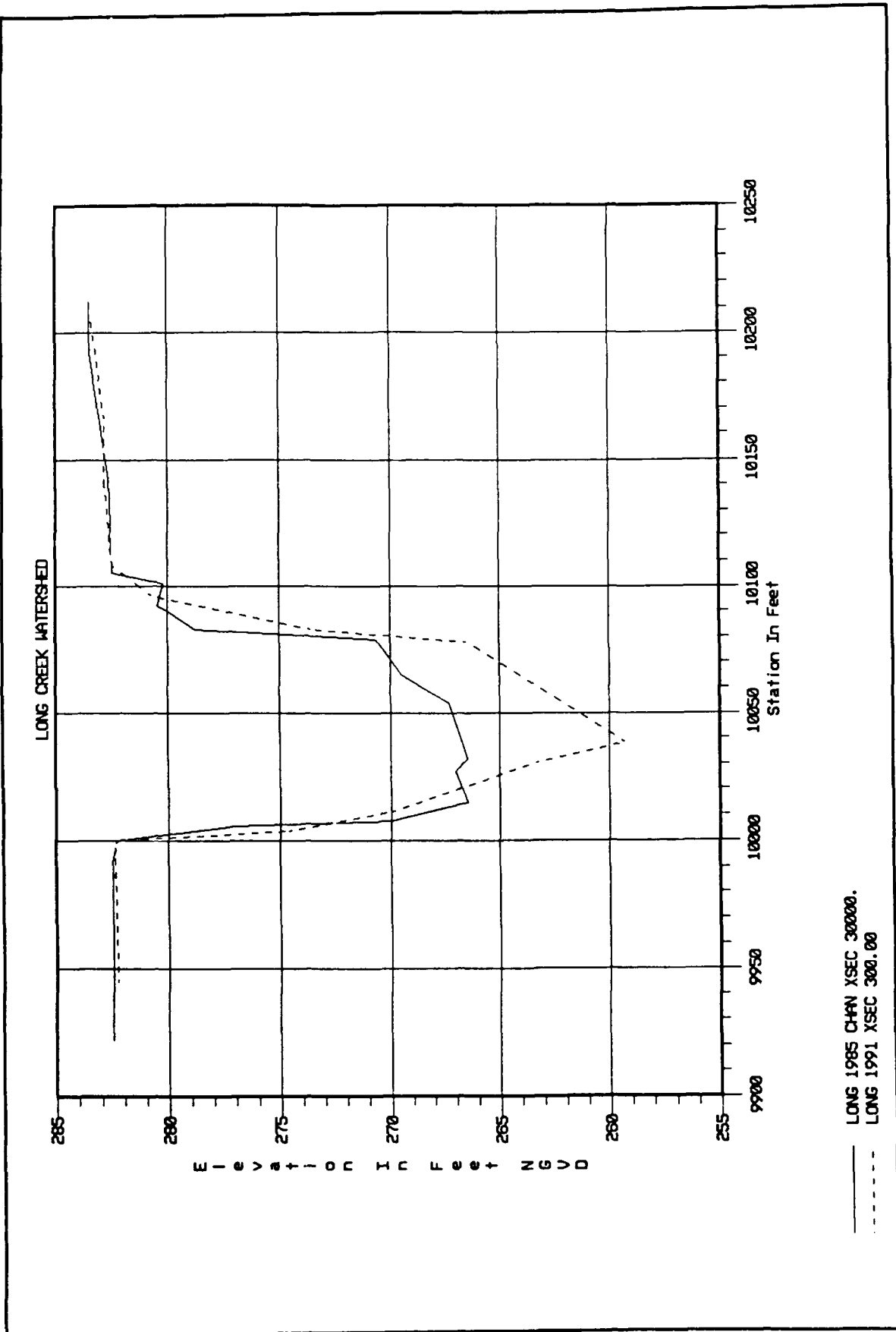
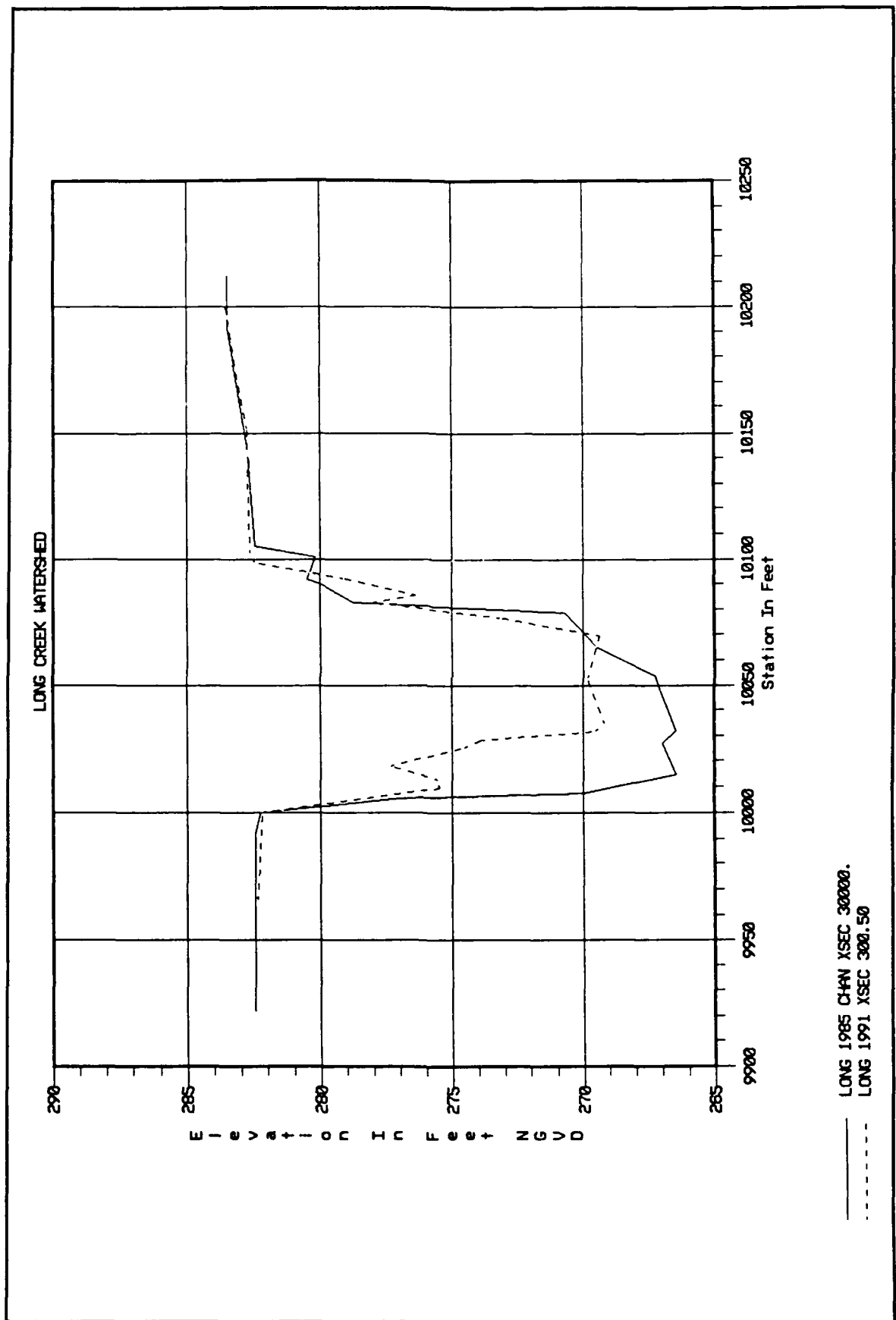


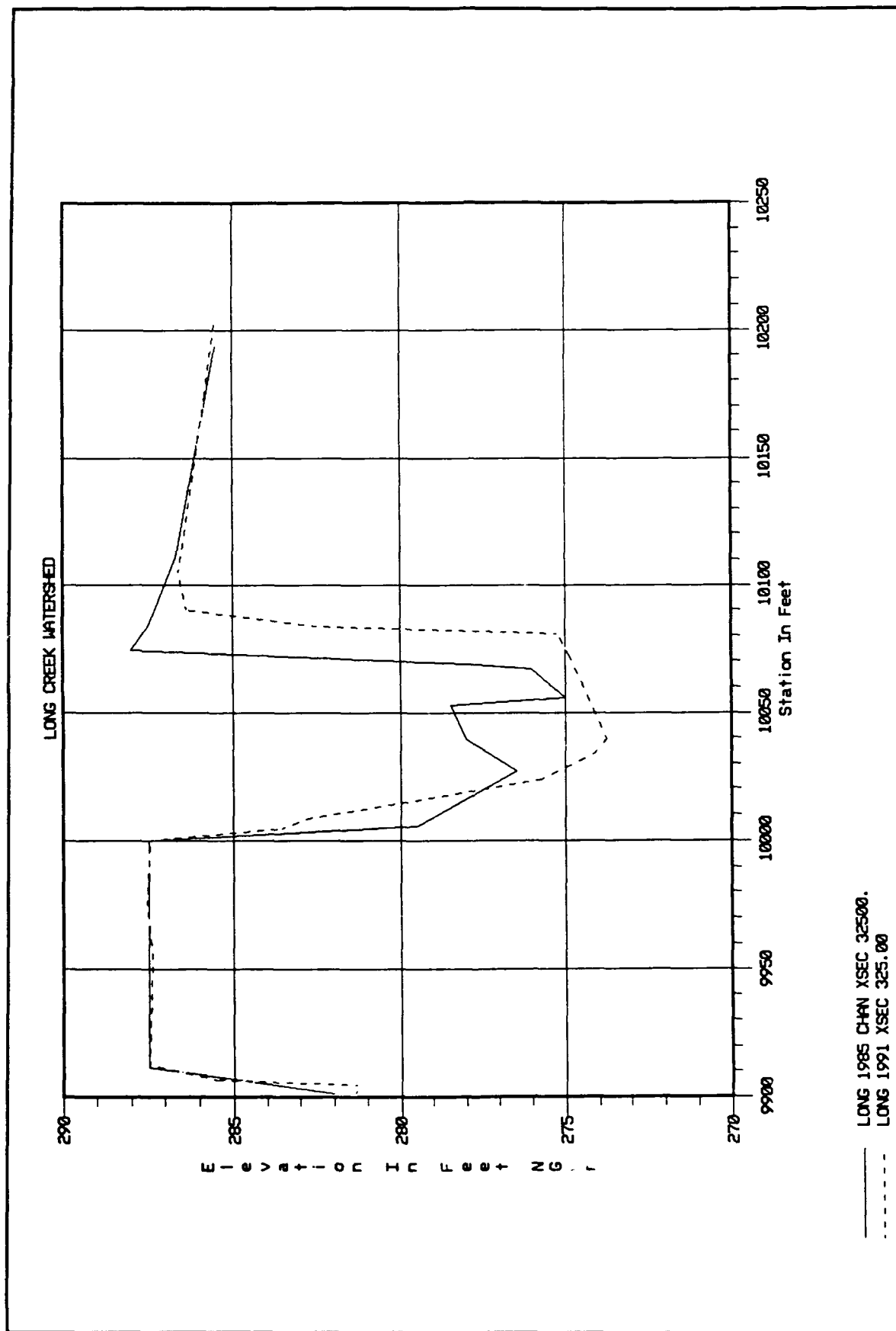
PLATE B82











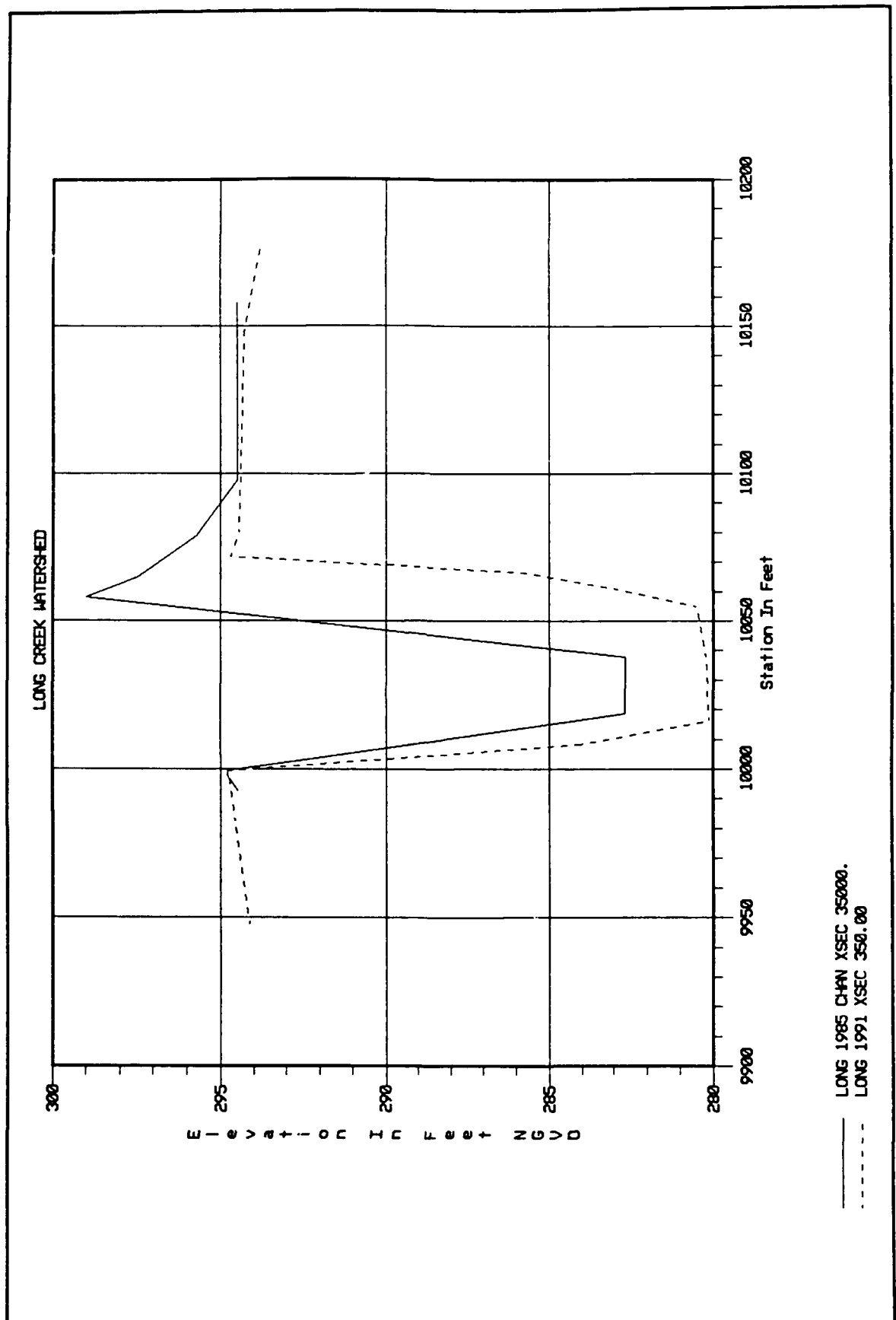
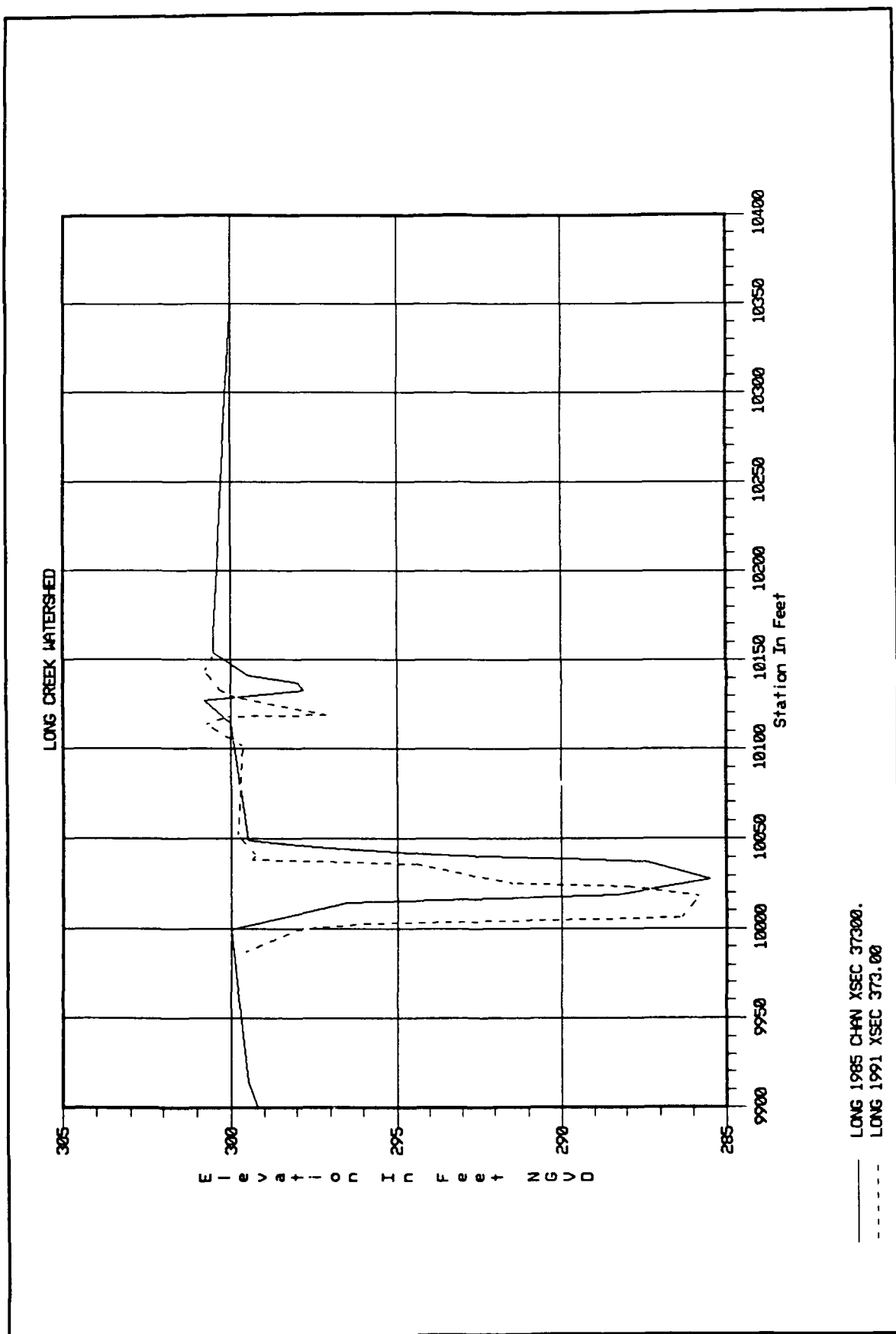
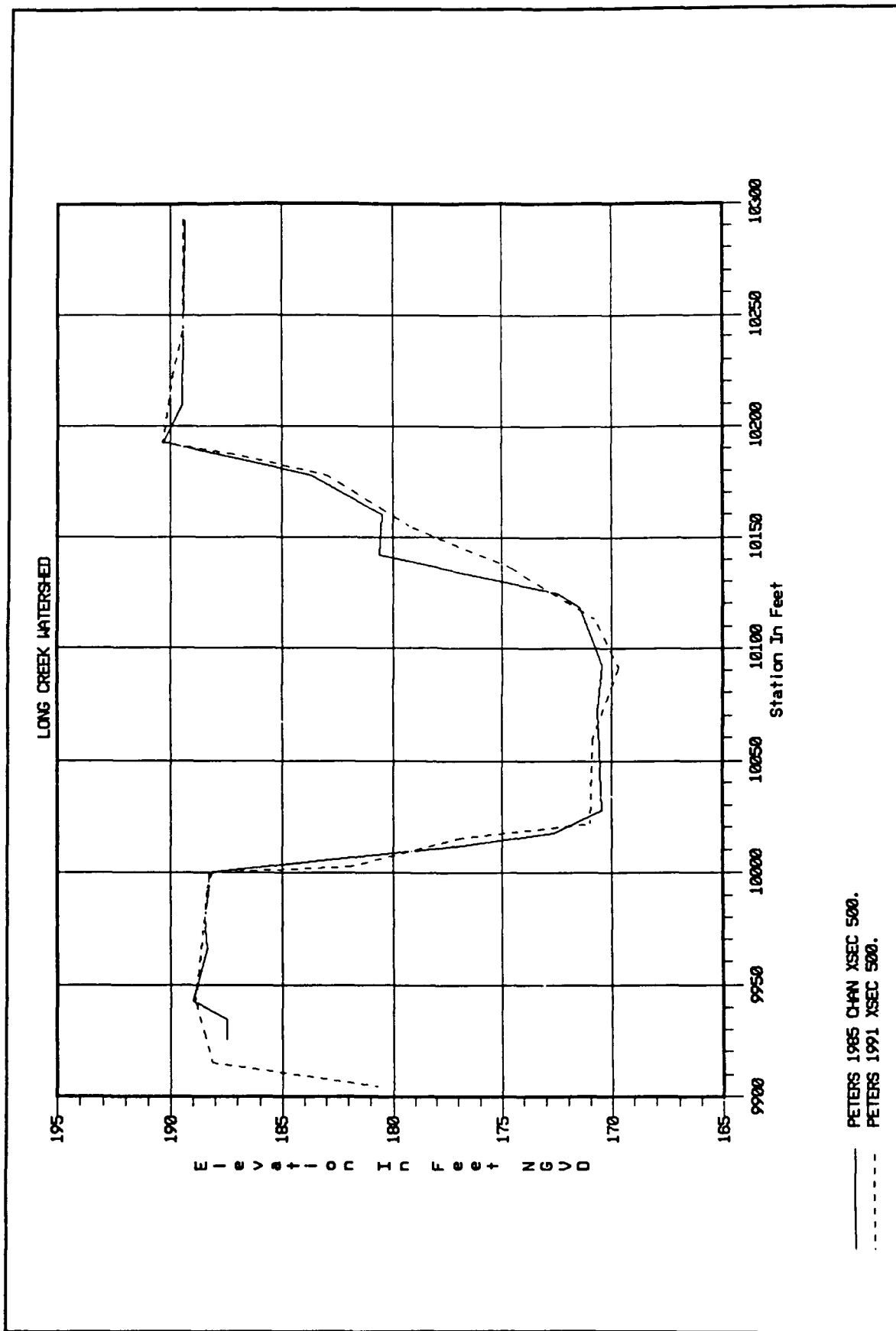


PLATE B87

PLATE B88





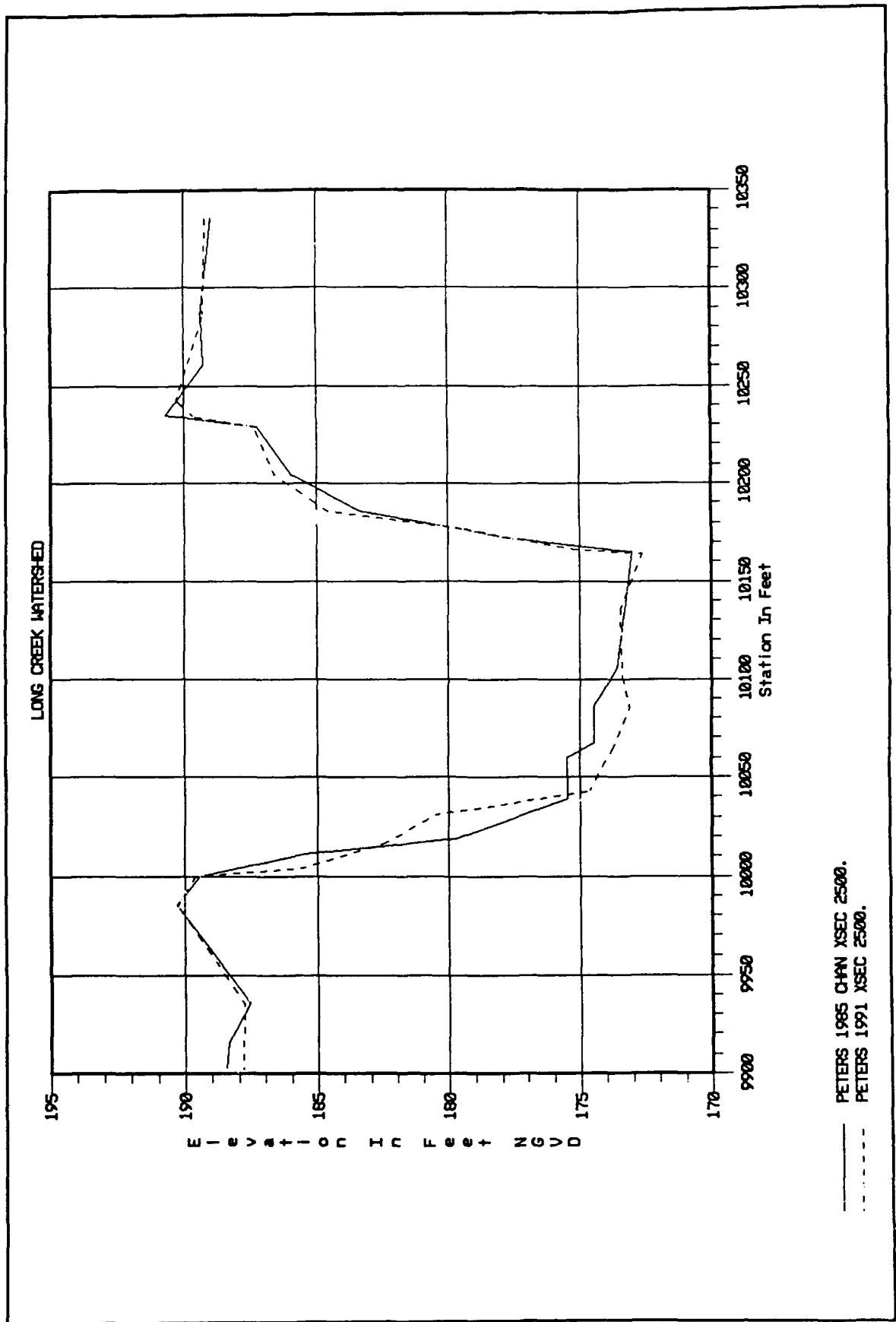
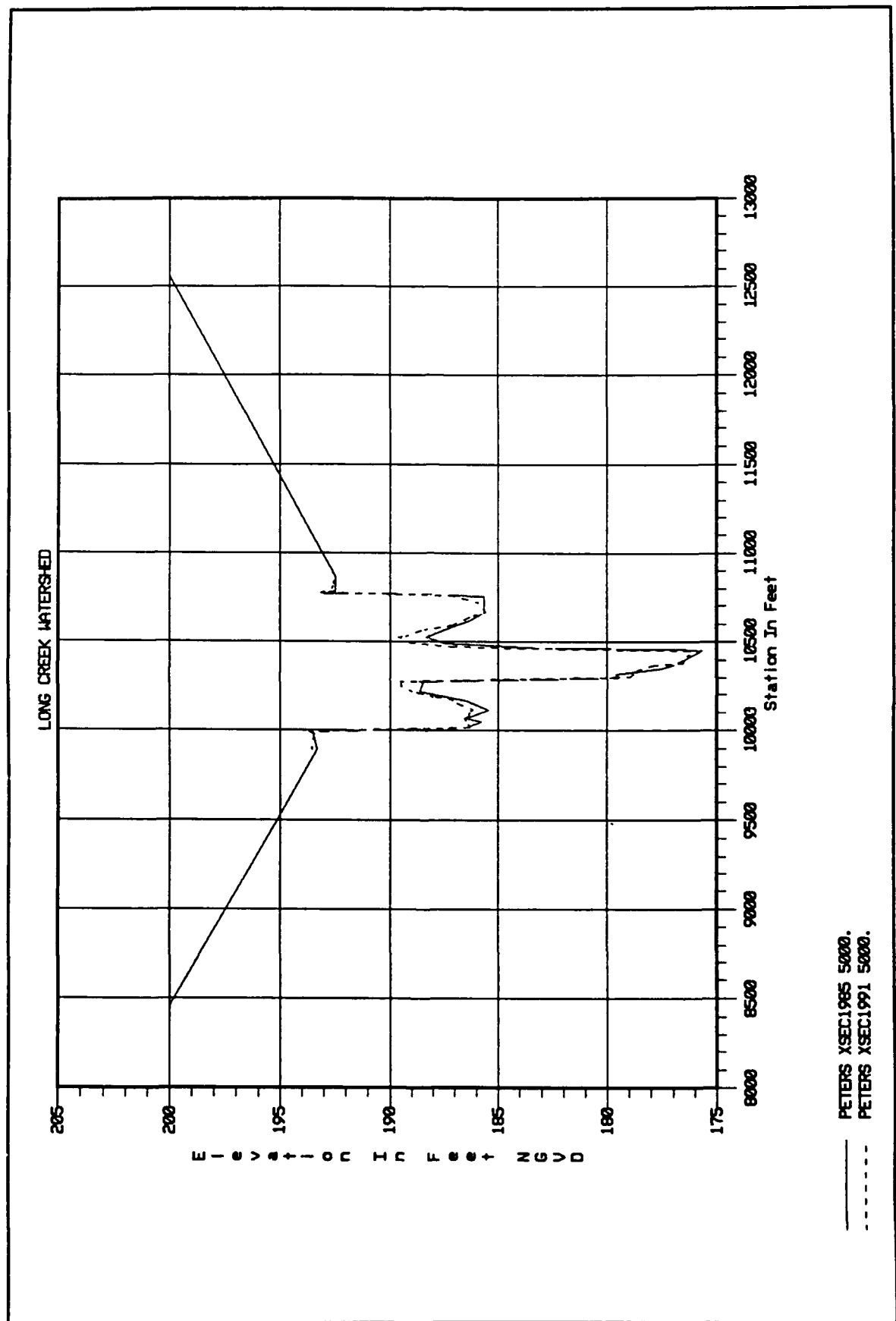
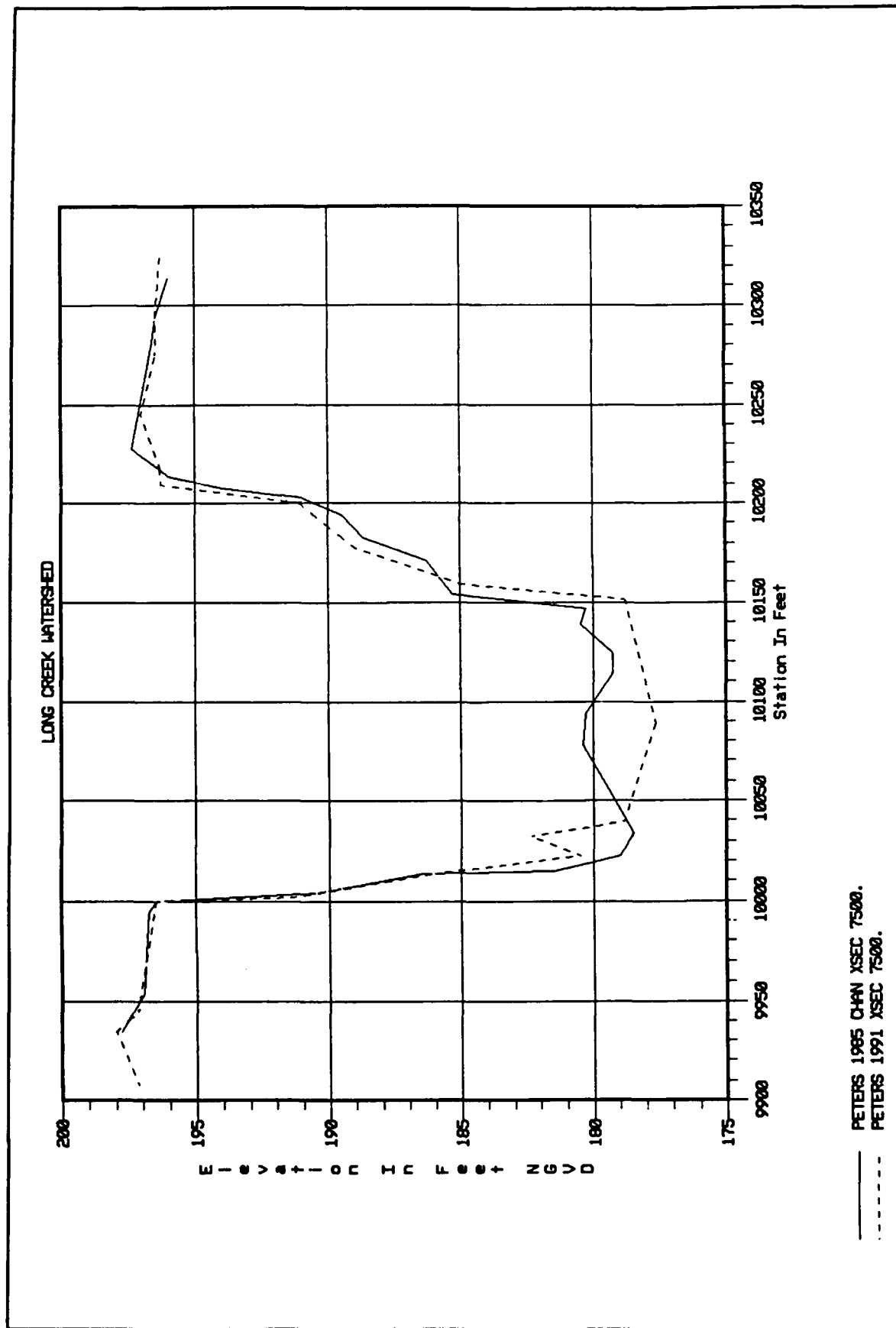
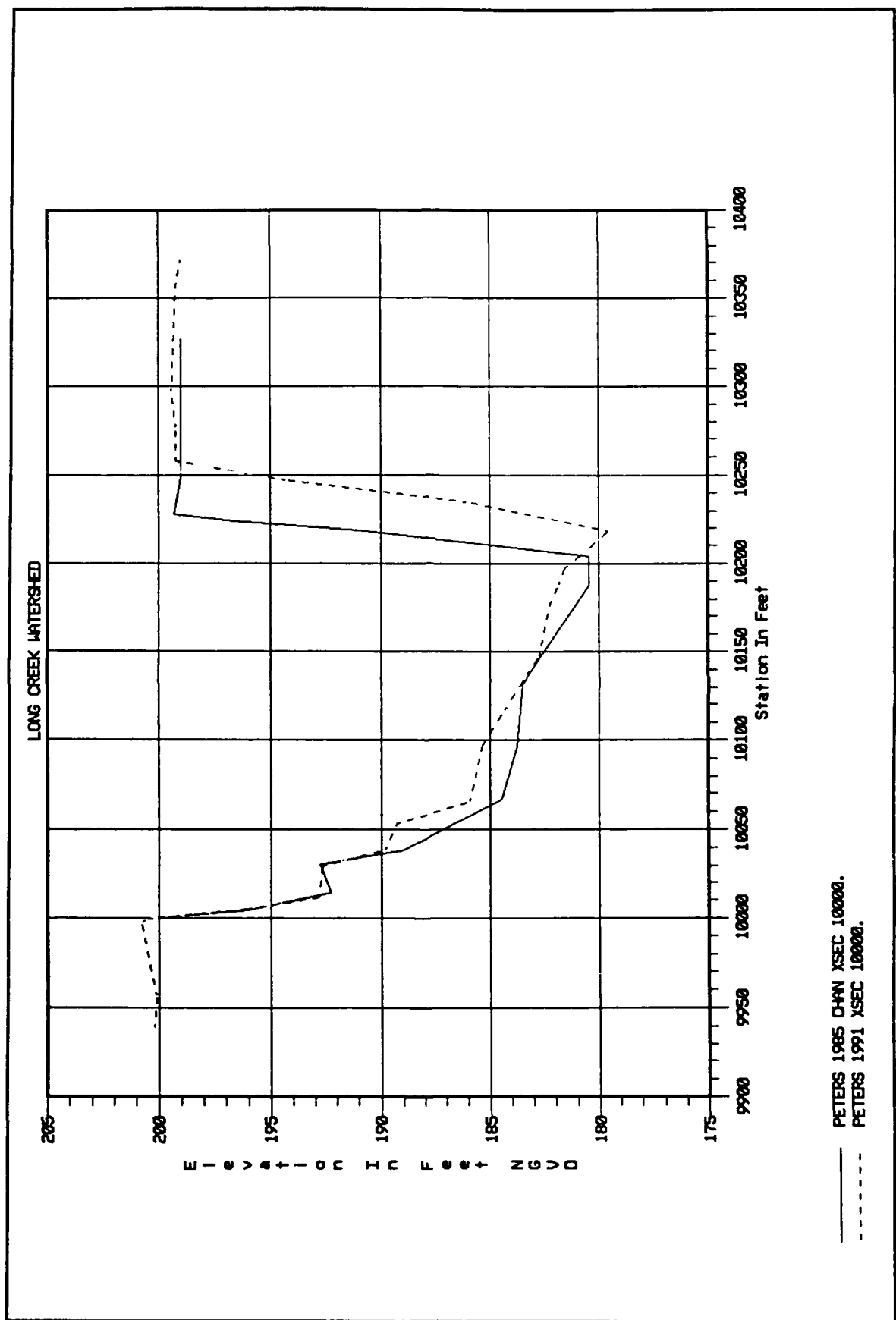


PLATE B90







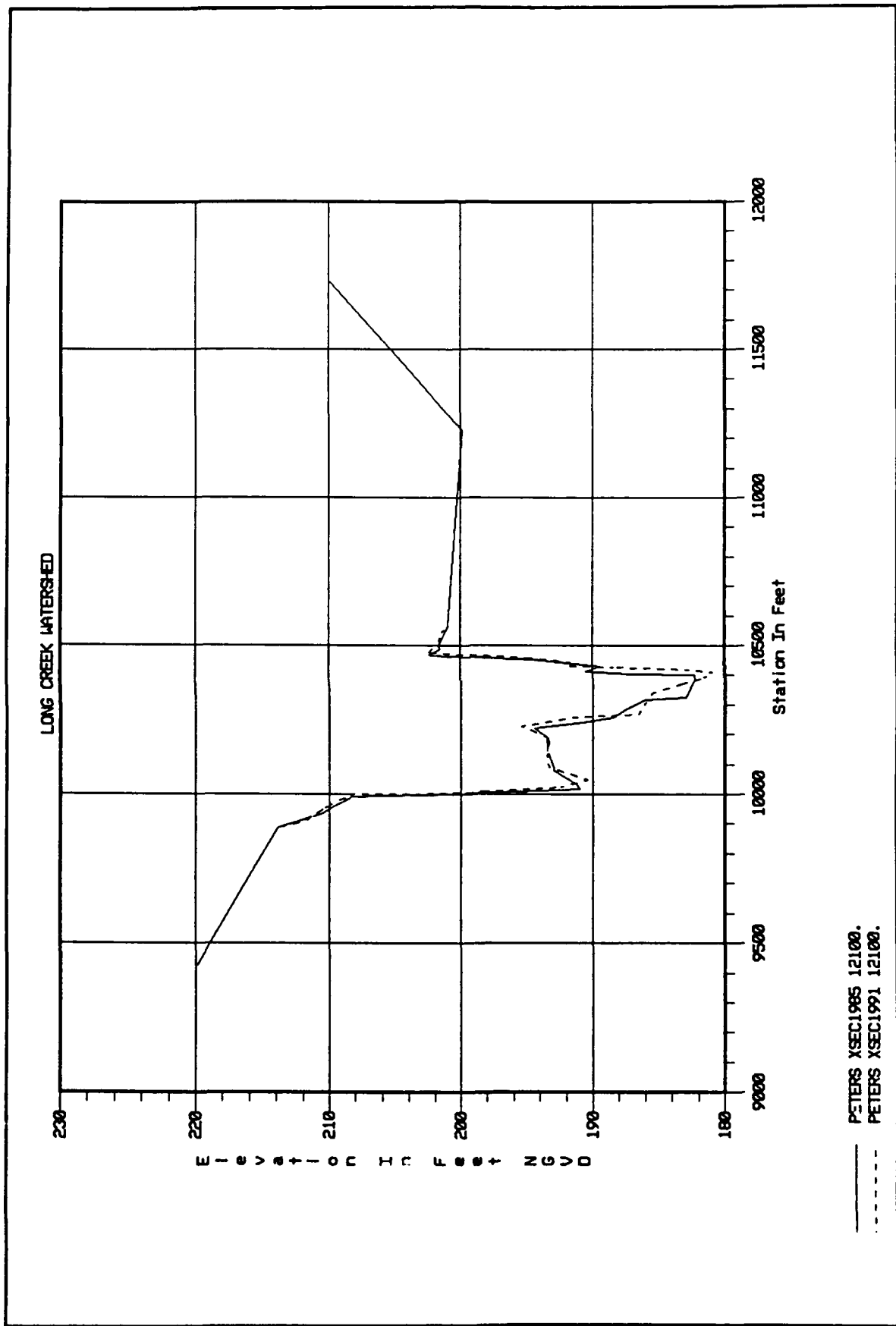
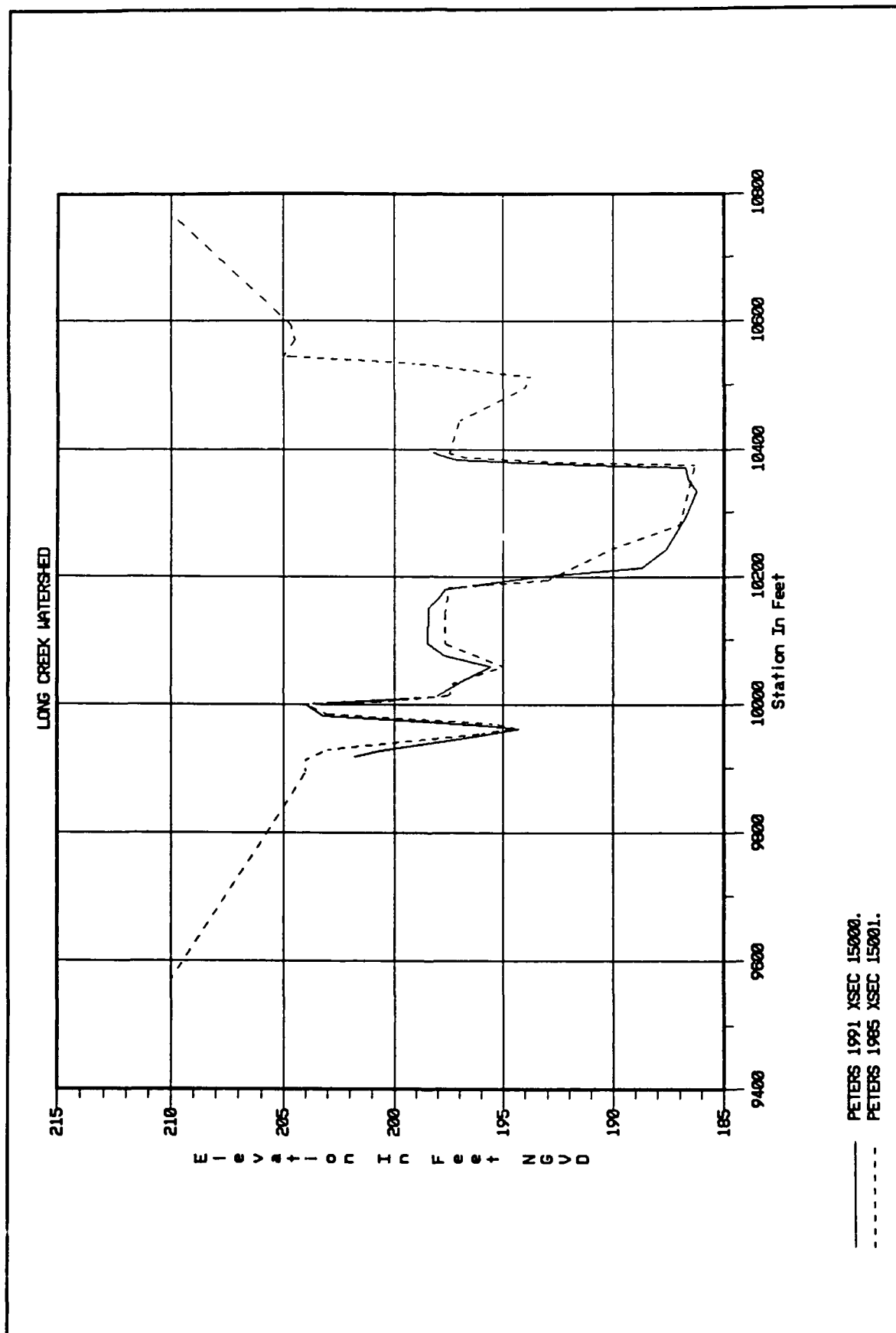


PLATE B94



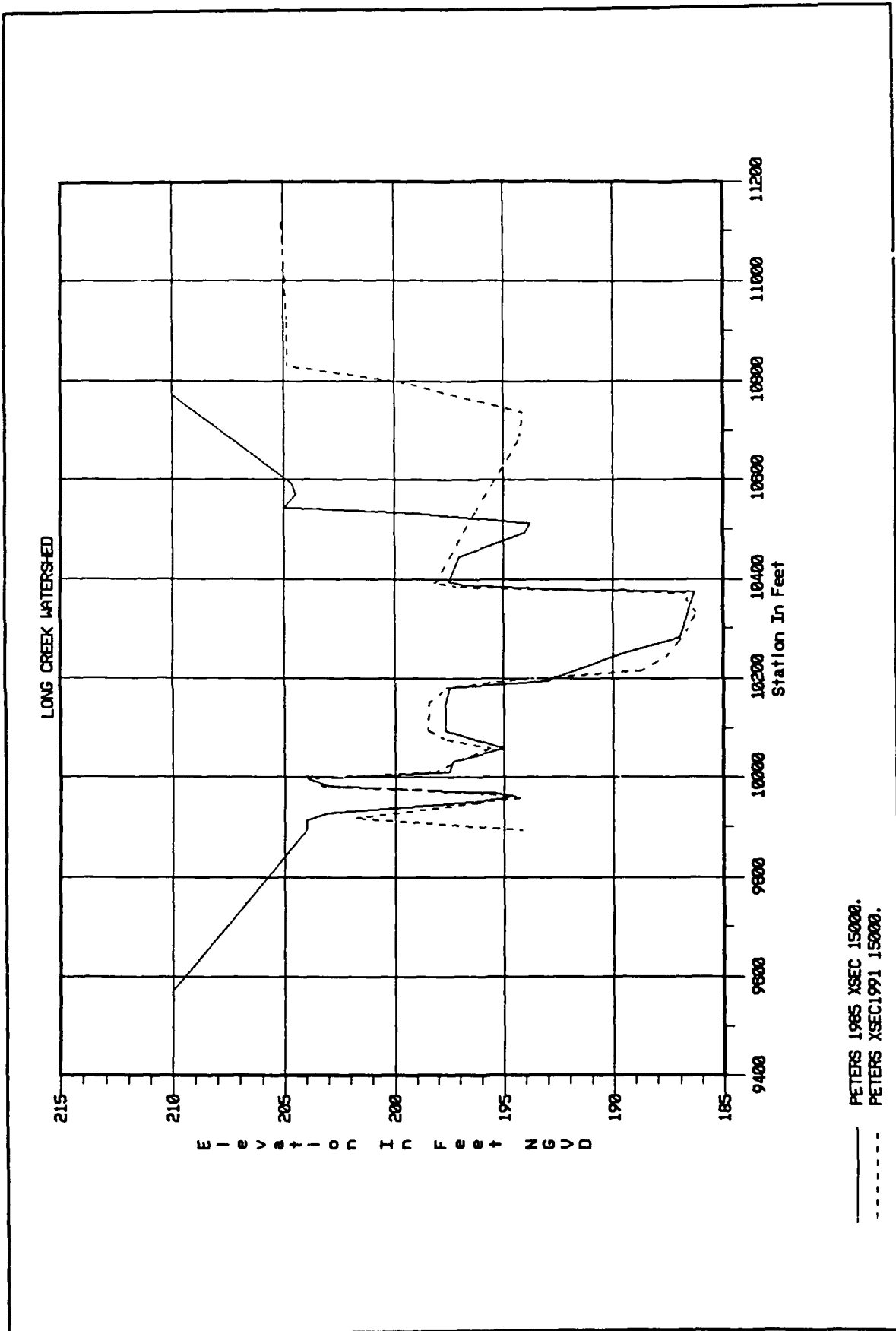
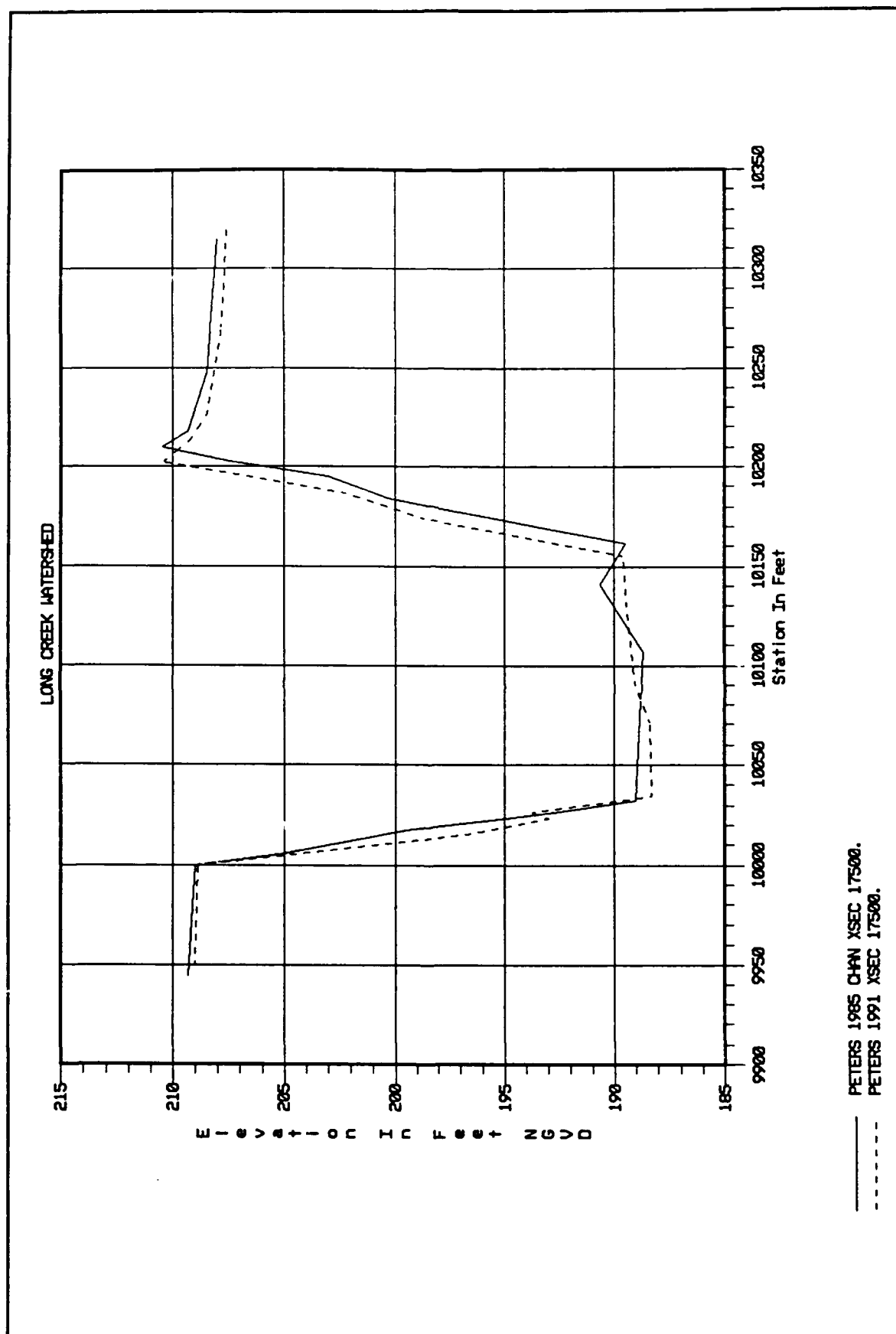
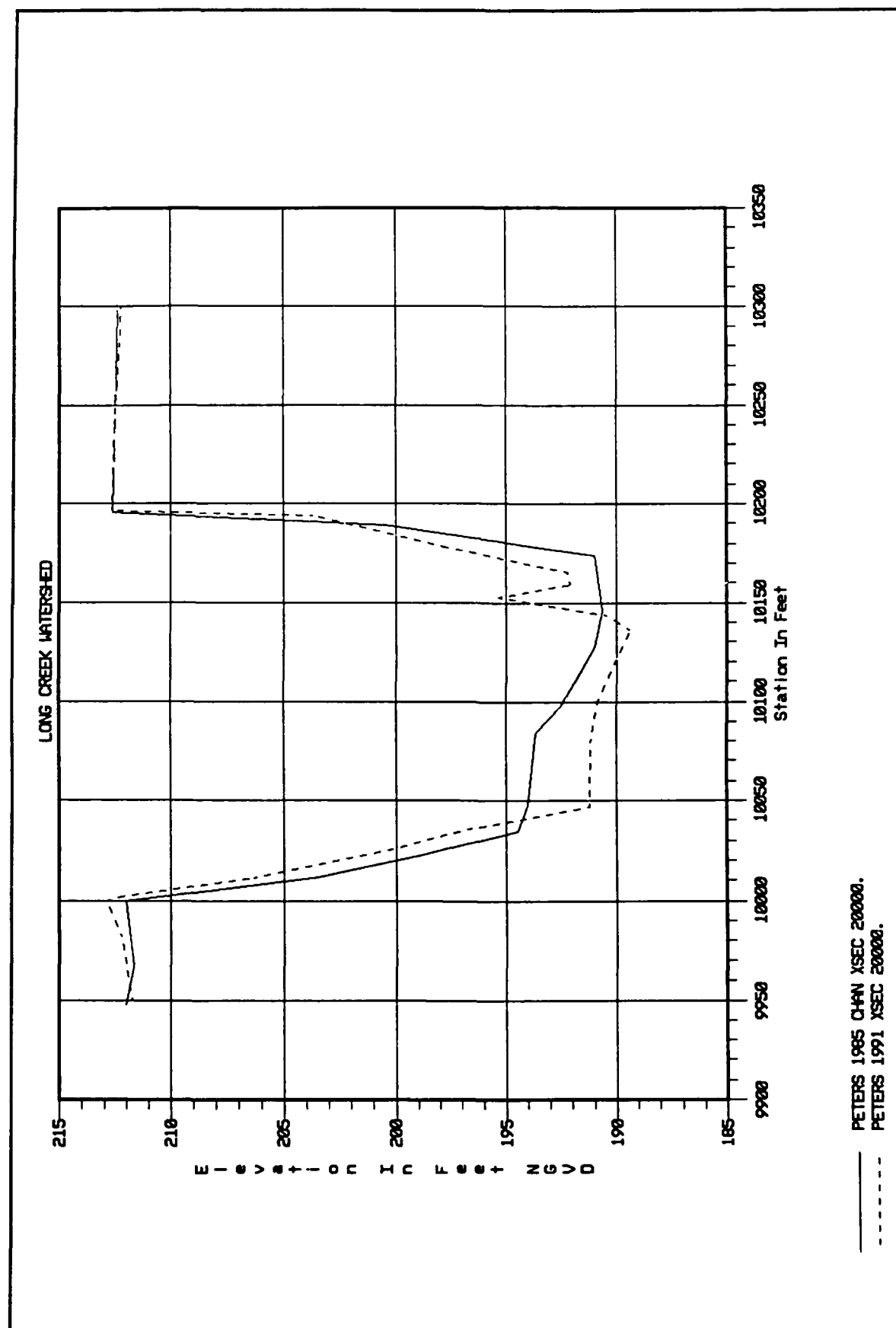
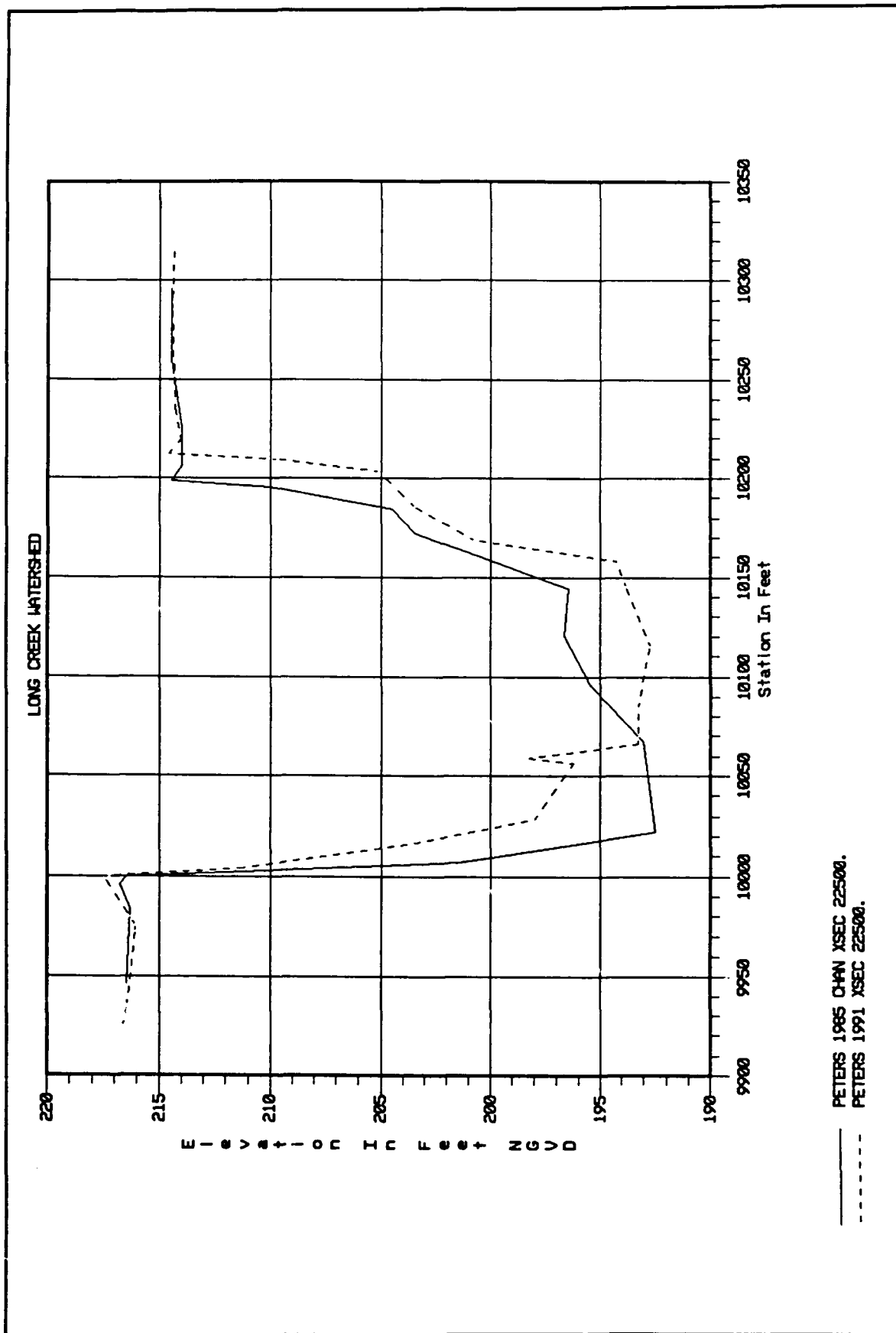


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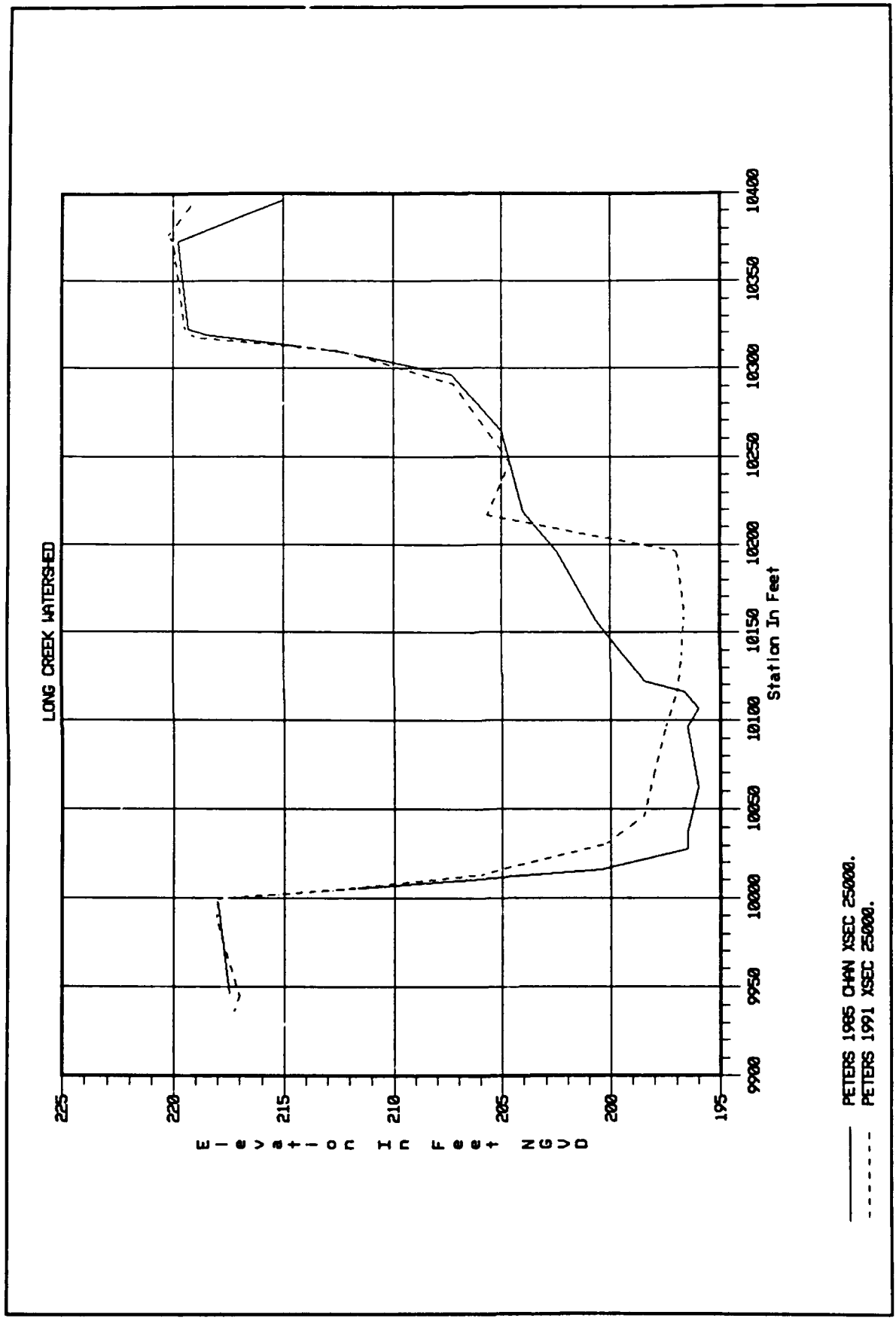
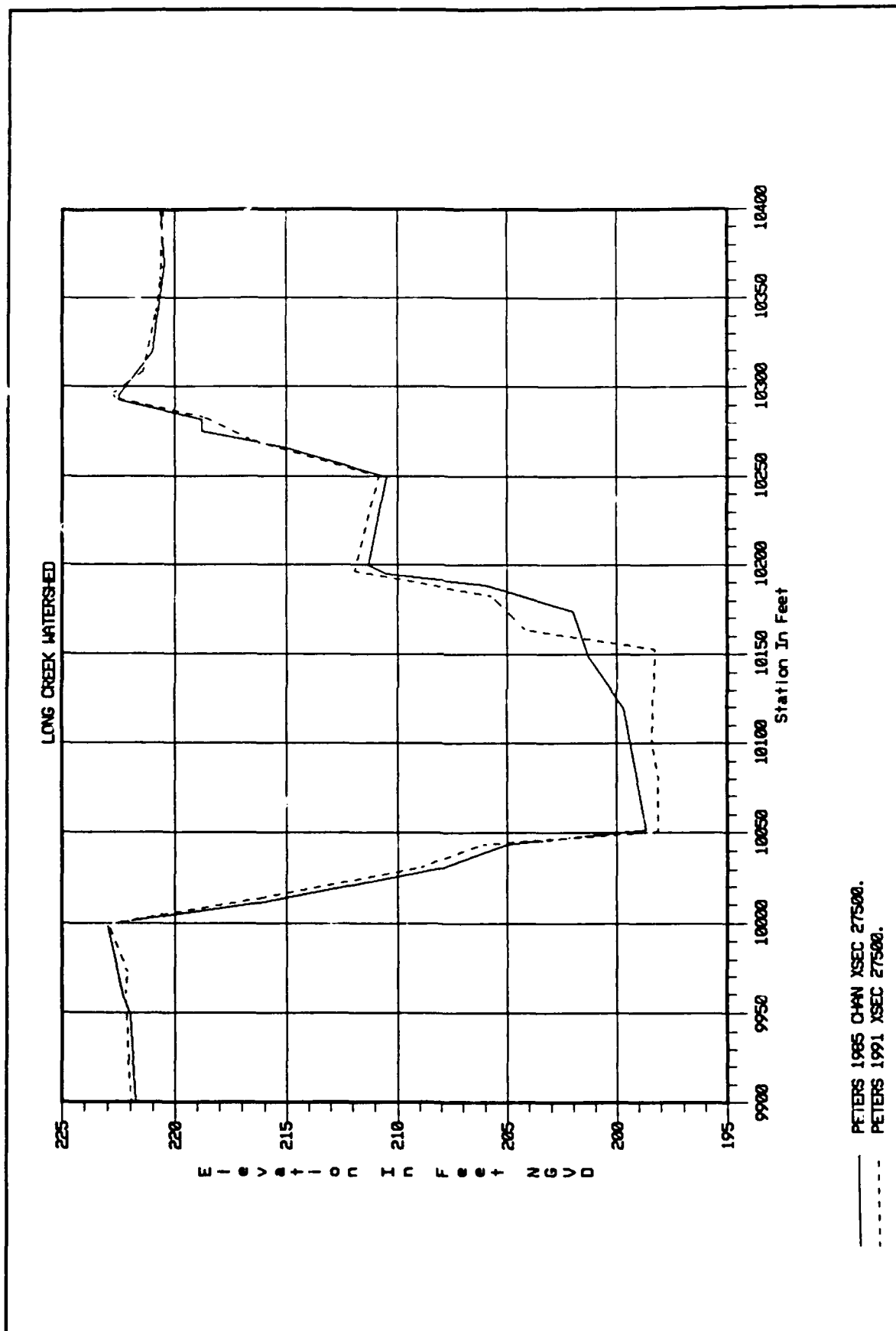


PLATE B100



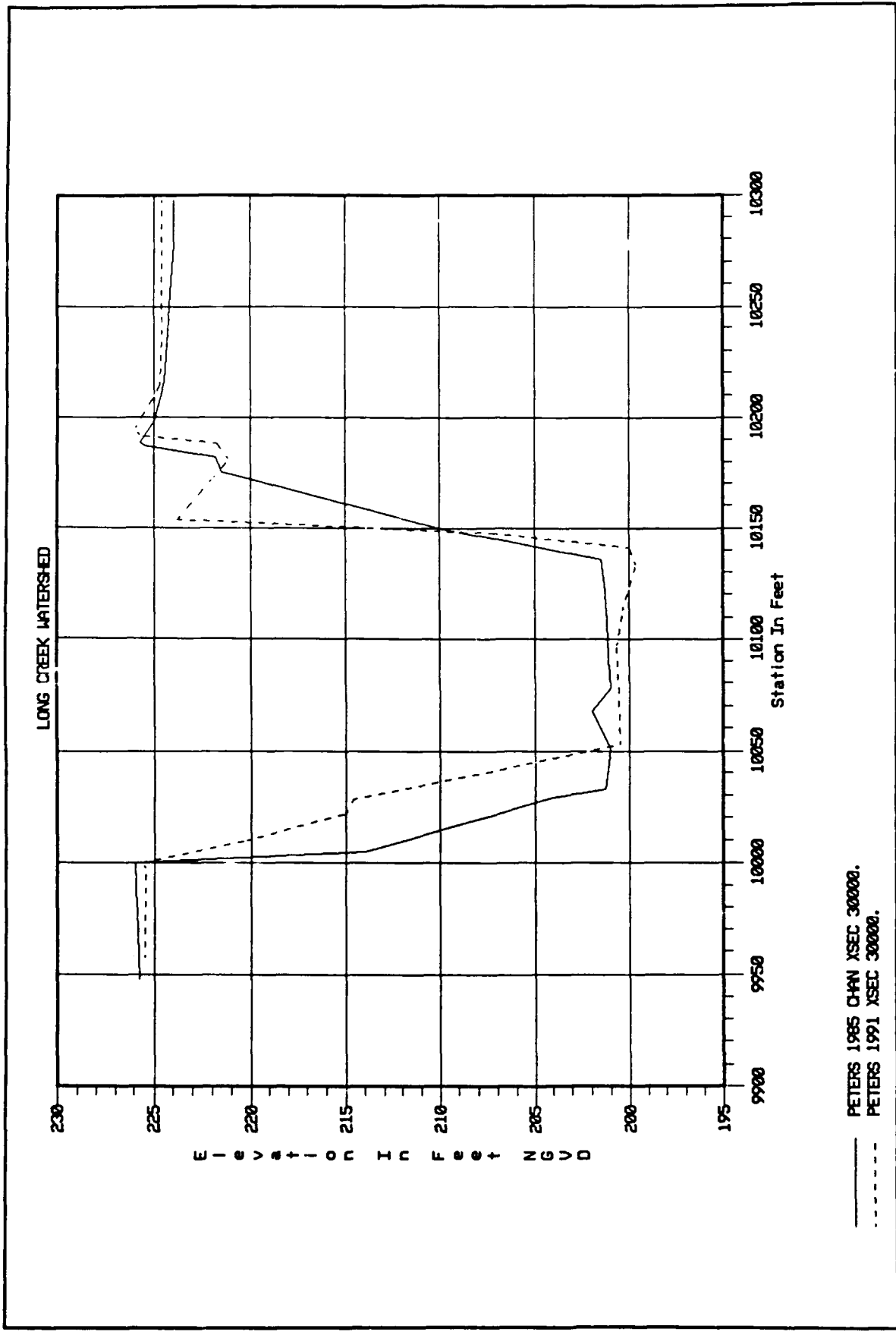
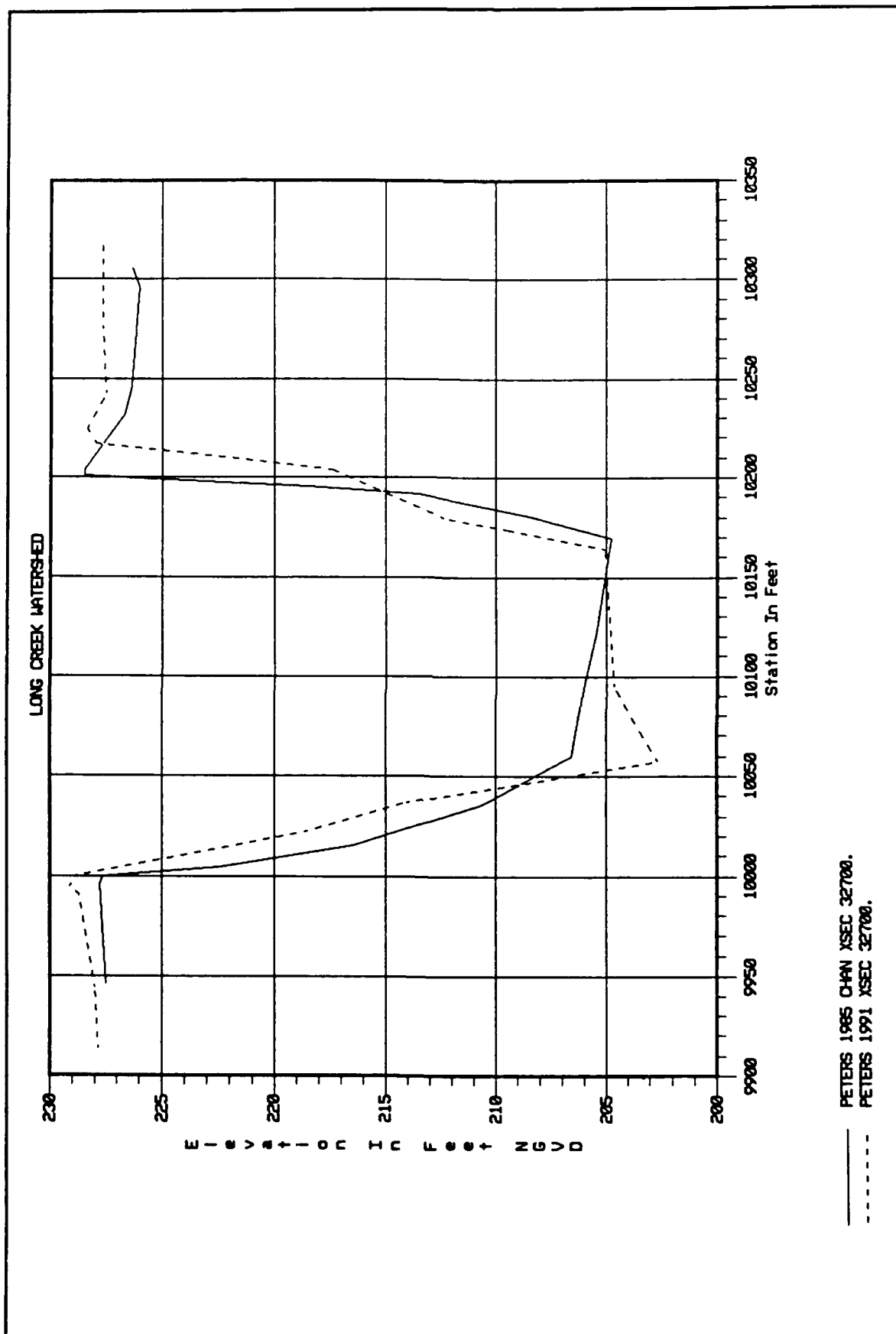


PLATE B102



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13. ABSTRACT (Maximum 200 words) The purpose of monitoring the Demonstration Erosion Control (DEC) Project is to evaluate and document watershed response to the implemented DEC Project. Documentation of watershed responses to DEC Project features will allow the participating agencies a unique opportunity to determine the effectiveness of existing design guidance for erosion and flood control in small watersheds. The monitoring program includes 11 technical areas: stream gaging, data collection and data management, hydraulic performance of structures, channel response, hydrology, upland watersheds, reservoir sedimentation, environmental aspects, bank stability, design tools, and technology transfer. Appendix B documents the channel cross-section and profile data used in the detailed geomorphic assessment for the Long Creek watershed that is presented in Volume I of this report.				
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