



US Army Corps
of Engineers
Waterways Experiment
Station

Technical Report HL-94-1
July 1994

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Demonstration Erosion Control Project Monitoring Program

Fiscal Year 1993 Report

Volume IV: Appendix C Otoucalofa Creek Watershed Profiles and Cross Sections

by David D. Abraham, Wendy L. Johnson

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by David D. Abraham, Wendy L. Johnson

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

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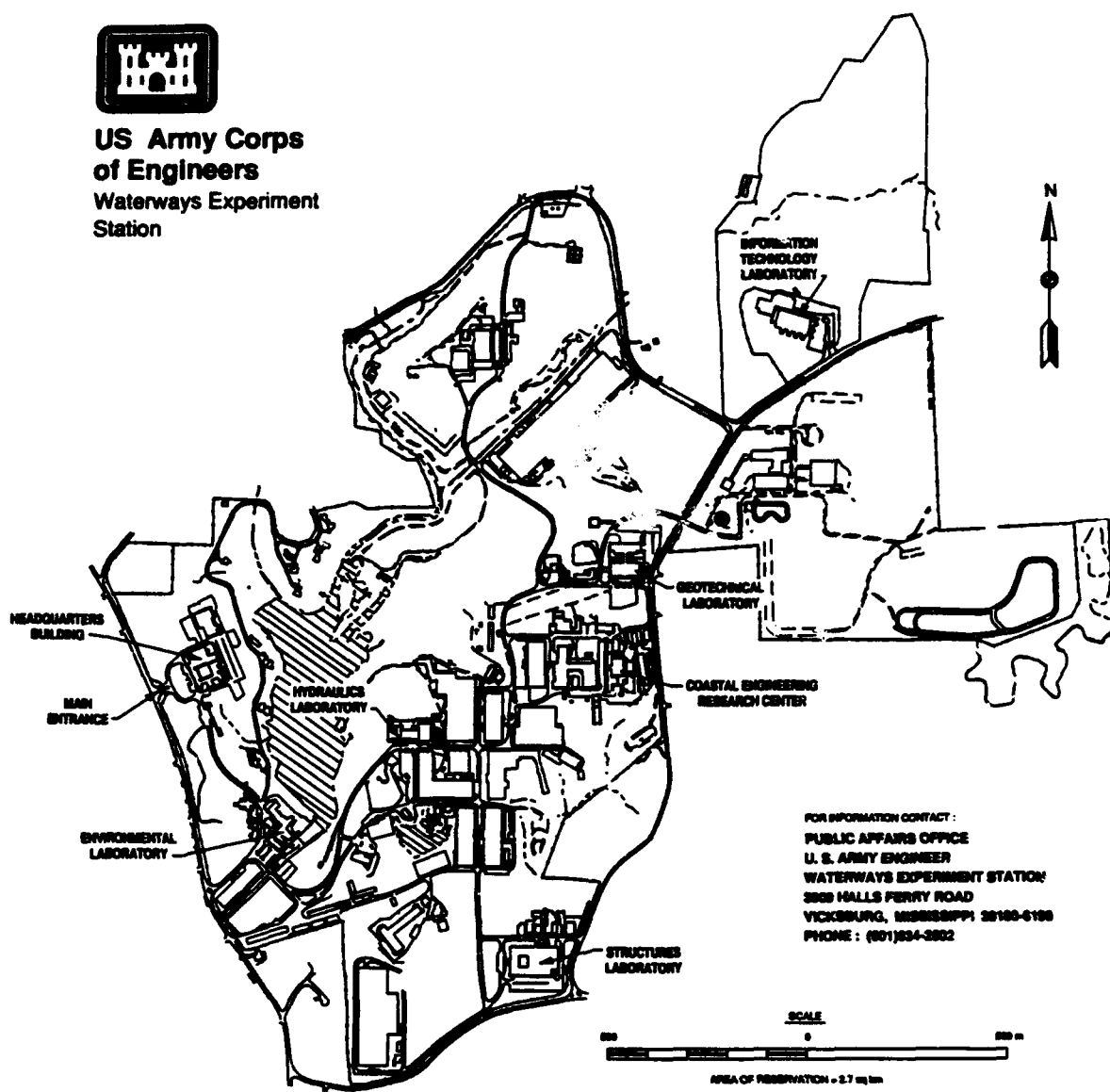
Final report

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**US Army Corps
of Engineers**
Waterways Experiment
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Appendix C

Otoucalofa Creek Watershed Profiles and Cross Sections

Channel Profiles

Comparisons of channel profiles in the Otoucalofa Creek watershed from 1985 and 1992 are shown in Plates C1-C30. The following channels are represented in these profile plots:

Creek	Plate
Otoucalofa	C1-C5
Susie Perry	C6
West Johnson	C7
Johnson	C8
Town	C9
Tributary 16A	C10
Tributary 15C	C11
Simmons	C12
Hitchcock	C13
Greasy	C14
Moore	C15
Gordon	C16
Main/East Spring	C17
South Spring	C18
Mill	C19
Smith	C20
(Continued)	

Creek	Plate
Hanna	C21
Tributary 12A	C22
Sarter	C23
West Sarter	C24
Paris Town	C25
Dickey	C26
Smith	C27
Shippy	C28
Tributary 2A	C29
Tributary 1B	C30

Channel Profiles

The channel profiles from 1985 and 1992 were digitized. Channel stationing began at the mouth of each channel and increased in the upstream direction along the channel thalweg. No survey baseline was used on either of the two surveys, and channel stationing was dependent on the measured distance along the thalweg. Since the thalweg tends to shift over time, the measured distances were often inconsistent between the two surveys. Locations of the bridges, culverts, grade control structures, tributary intersections, and other channel features noted on the surveys were used to fit the stationing from the 1992 survey to the 1985 stationing. The two channel profiles were then plotted to the 1985 stationing. Areas of significant channel aggradation or degradation can be located using these plots.

Channel Cross Sections

Comparisons of channel cross sections in the Otoucalofa Creek watershed from 1985 and 1992 are shown in Plates C31-C268. The following channels are represented in these cross-section plots:

Creek	Plate
Otoucalofa	C31-C102
Susie Perry	C103-C110
West Johnson	C111-C114
Johnson	C115-C131
(Continued)	

Creek	Plate
Town	C132-C137
Tributary 16A	C138-C144
Tributary 15C	C145-C150
Simmons	C151-C158
Hitchcock	C159-C161
Greasy	C162-C175
Moore	C176-C179
Gordon	C180-C186
Main Spring	C187-C193
South Spring	C194-C195
Mill	C196-C203
Smith	C204-C208
Hanna	C209-C211
Tributary 12A	C212-C214
Sarter	C215-C230
West Sarter	C231-C233
Paris Town	C234-C238
Dickey	C239-C245
Smith	C246-C251
Shippy	C252-C259
Tributary 2A	C260-C263
Tributary 1B	C264-C269

Channel Cross Sections

Channel cross sections from 1992 were plotted with the same cross sections from 1985. Where possible, the 1992 cross sections had been surveyed at the same location as the 1985 cross sections. The 1985 cross sections and 1992 cross sections were digitized for input into HEC-2. The data were then manipulated into a paired data form that was put into DSS files. A DSS file was made for each watershed. Additional cross sections were surveyed in 1992 although several of them were surveyed at different locations from those of 1985. Cross sections from 1985 were then matched with the corresponding sections from 1992 and plotted. The cross-section station was determined from the channel profile; therefore, the station number may have changed even though the location did not.

Otoucalofa Watershed Otoucalofa Creek

Reach	Drainage Area square miles	2-Year Discharge, cfs
1	121.29	10564.0
2	101.44	9181.0

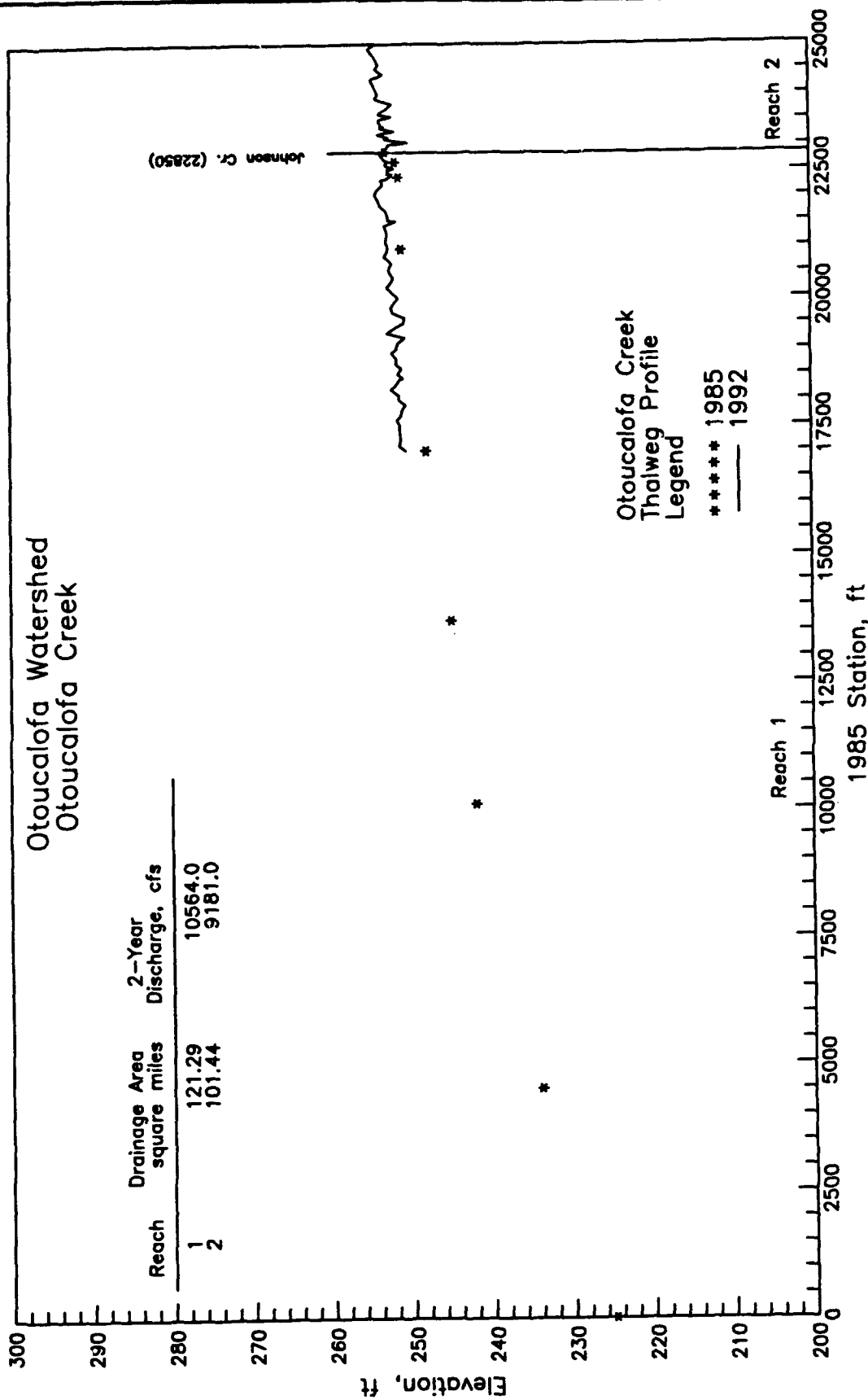
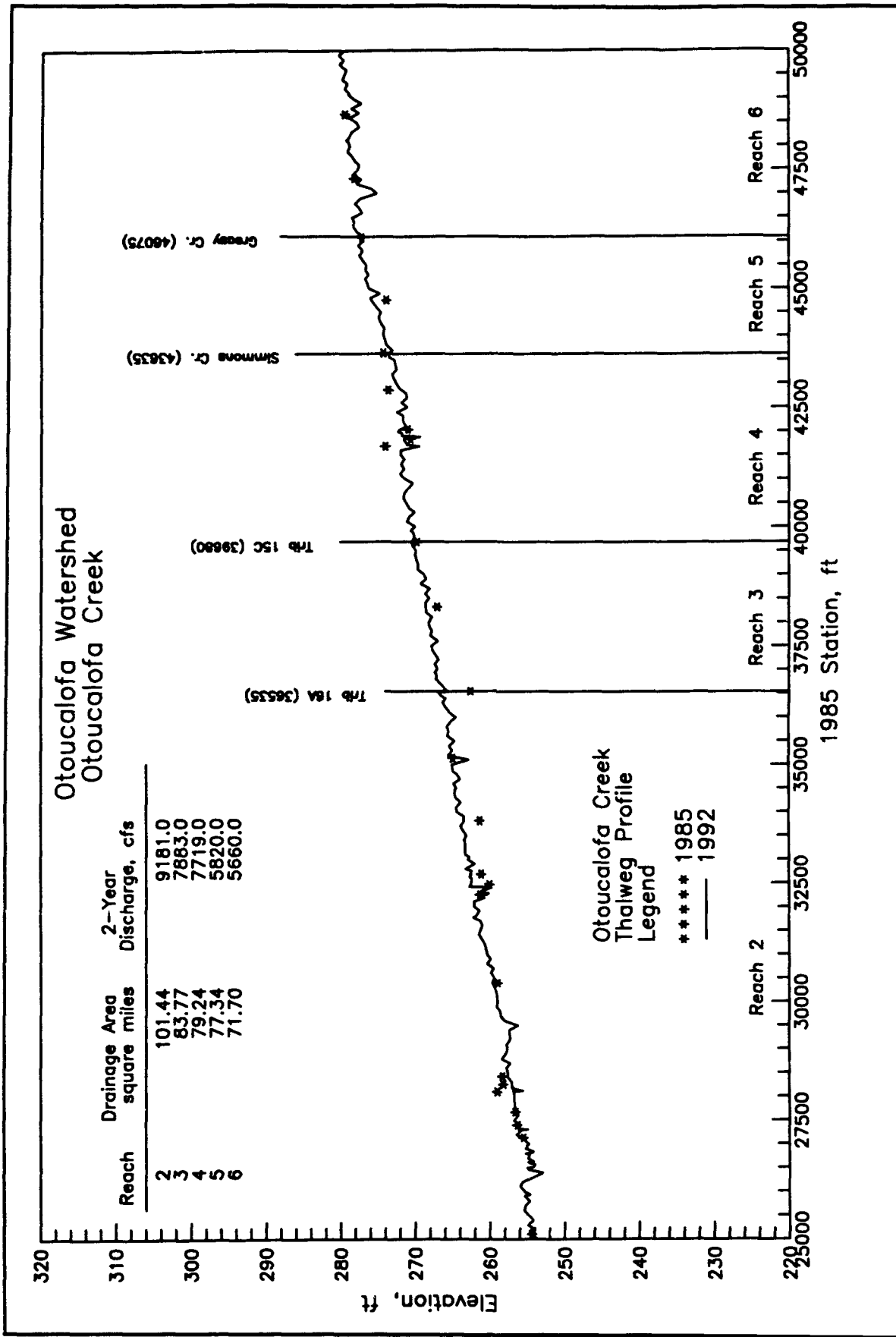
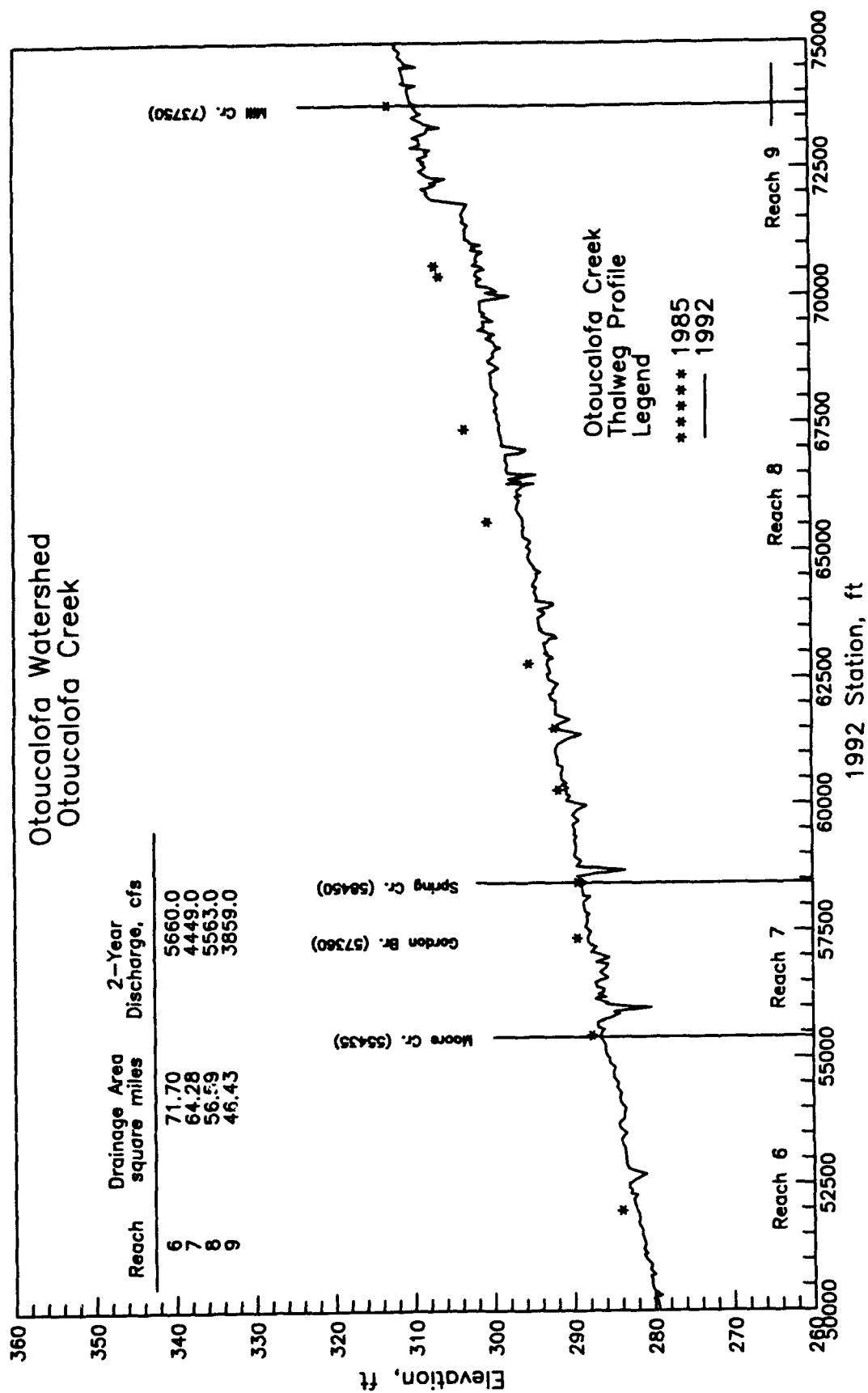


Plate C2



Otocalofa Watershed Otocalofa Creek



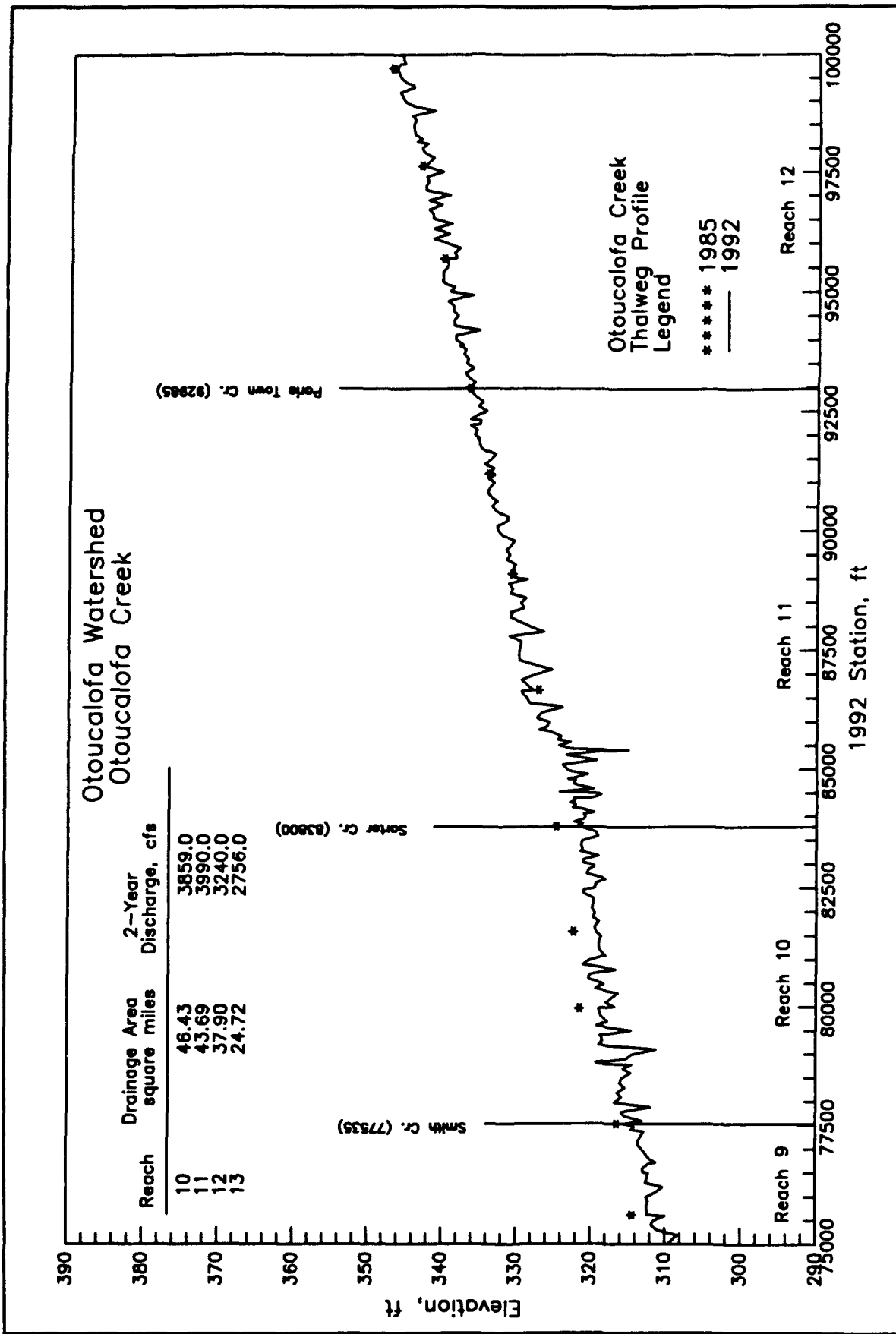
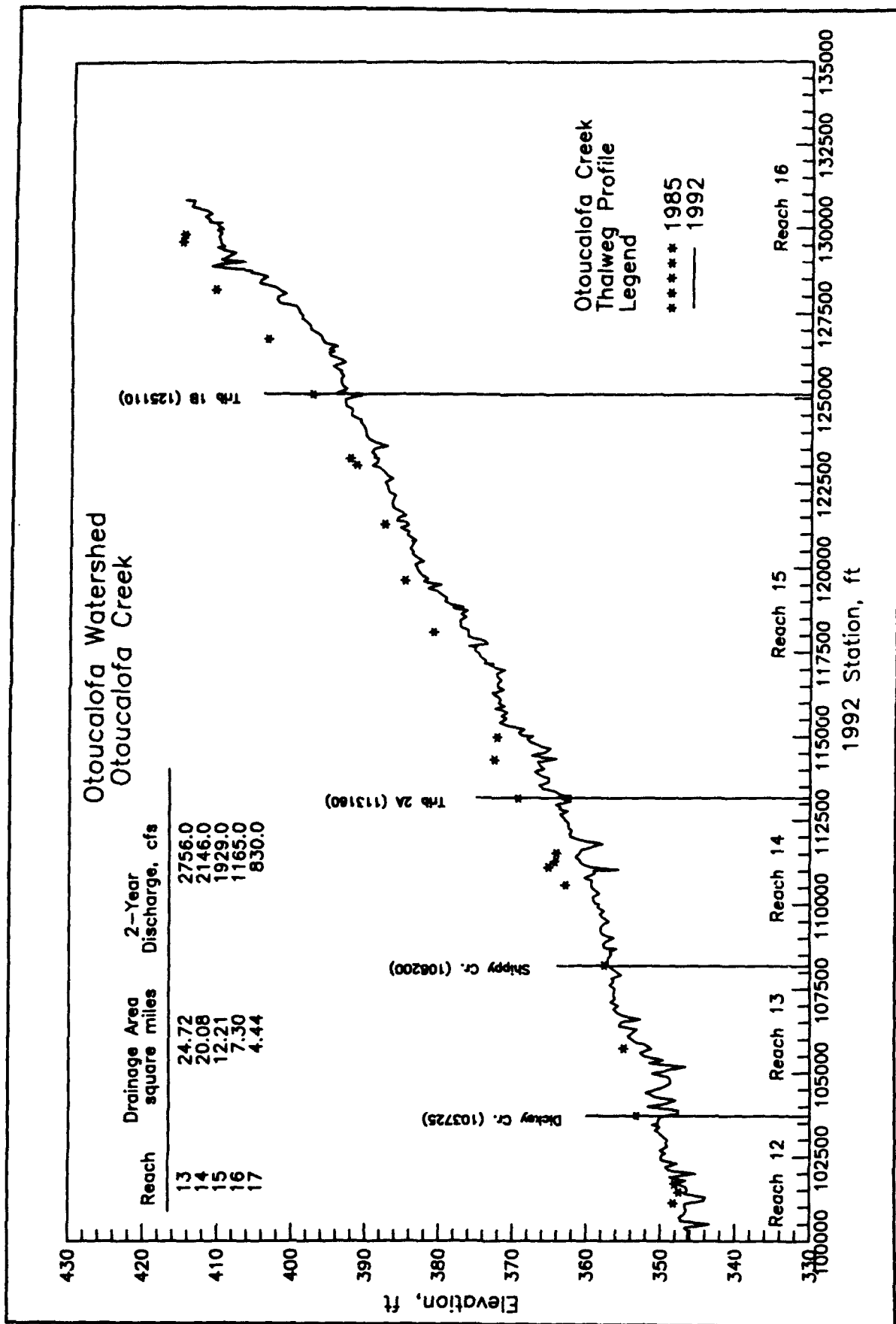


Plate C4



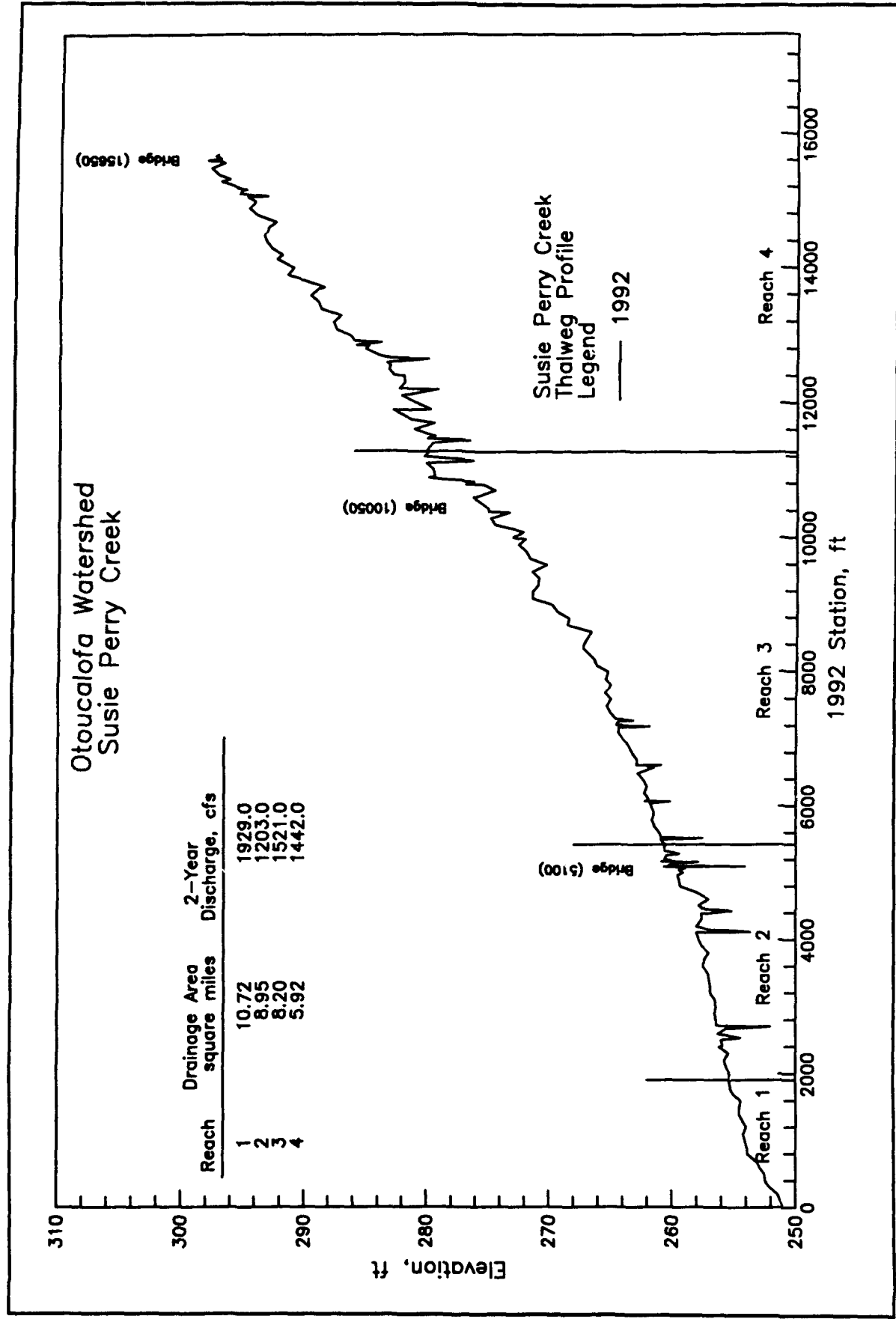
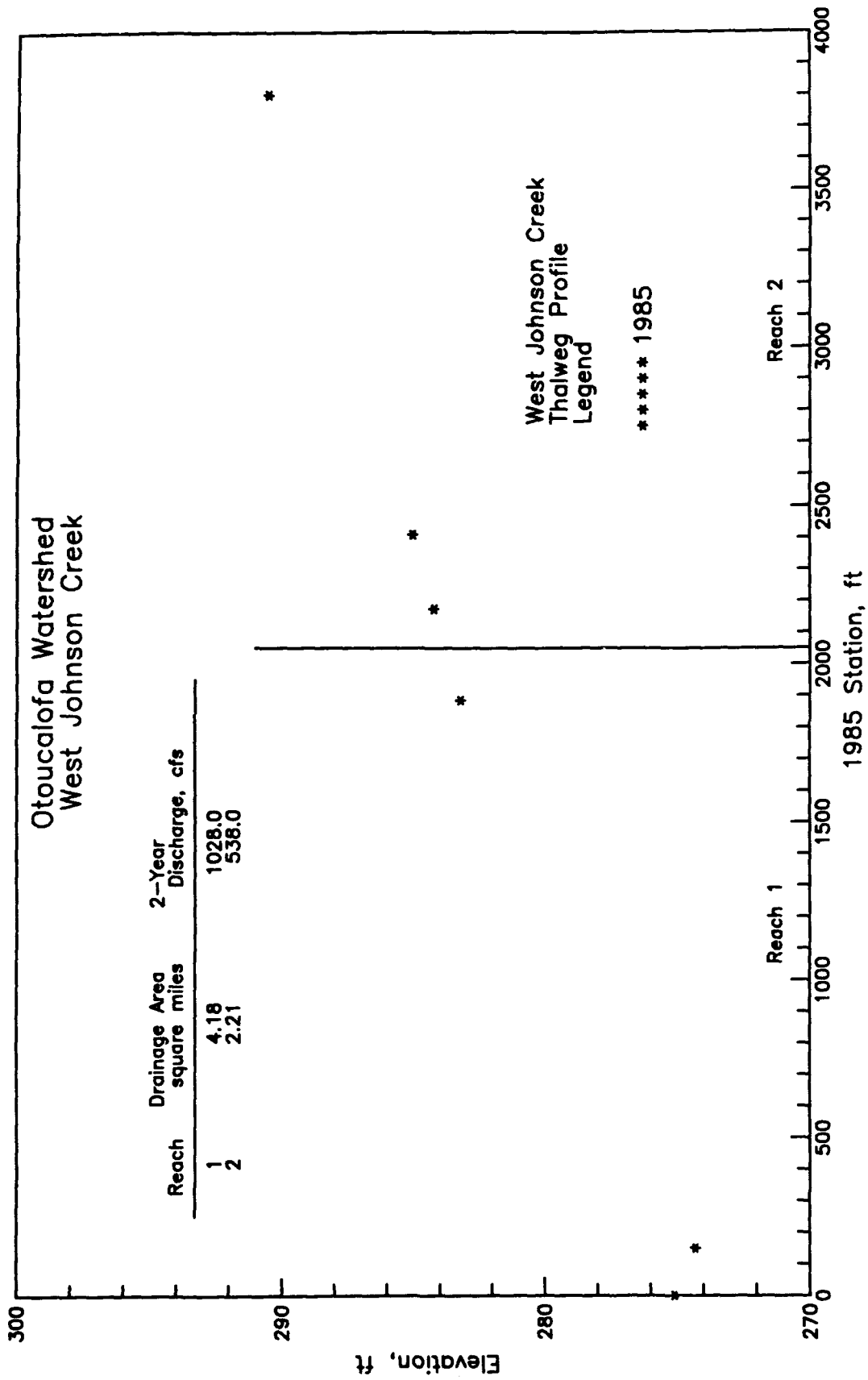


Plate C6

Otoucalofa Watershed West Johnson Creek

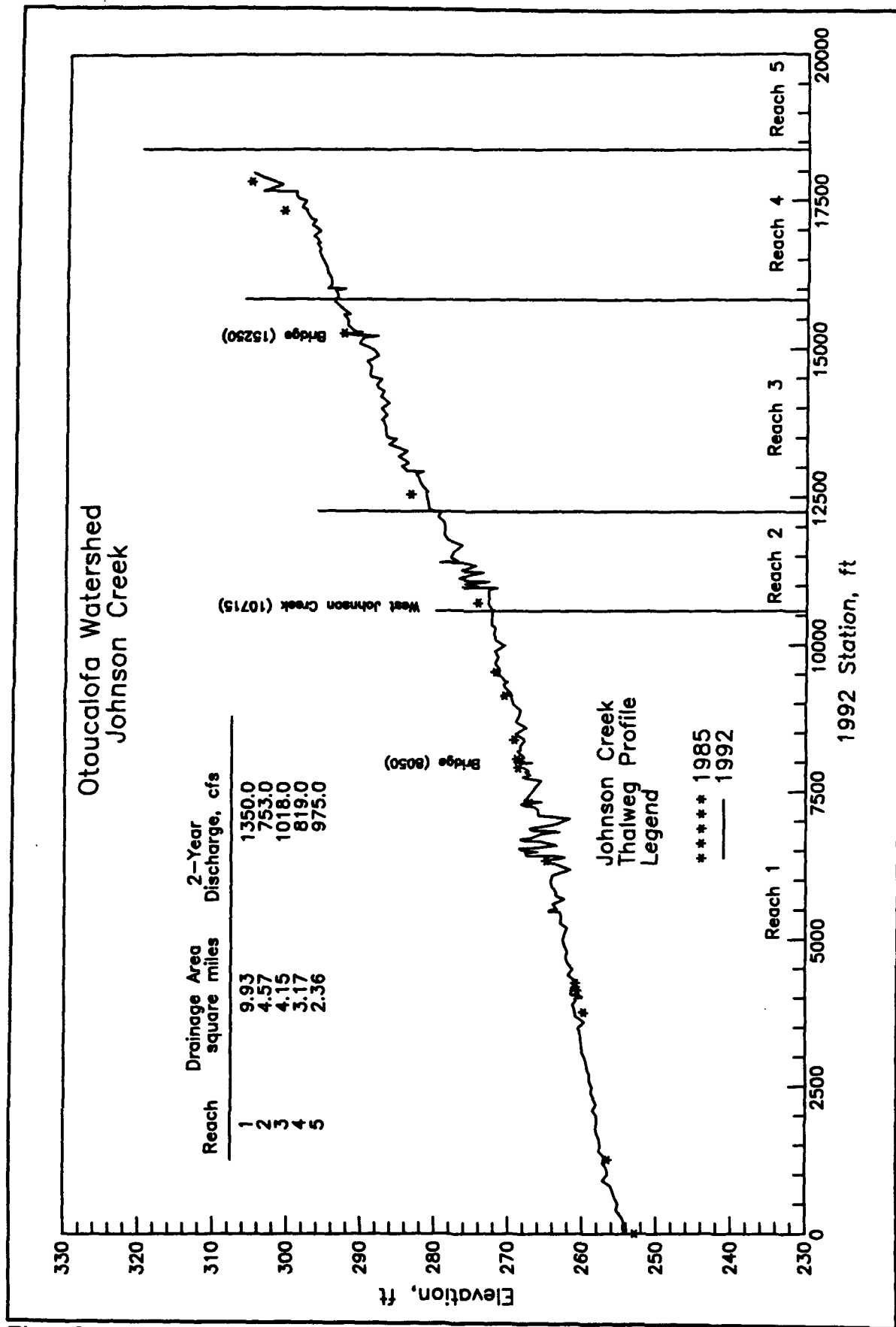
Reach	Drainage Area square miles	2-Year Discharge, cfs
1	4.18	1028.0
2	2.21	538.0



West Johnson Creek
Thalweg Profile
Legend

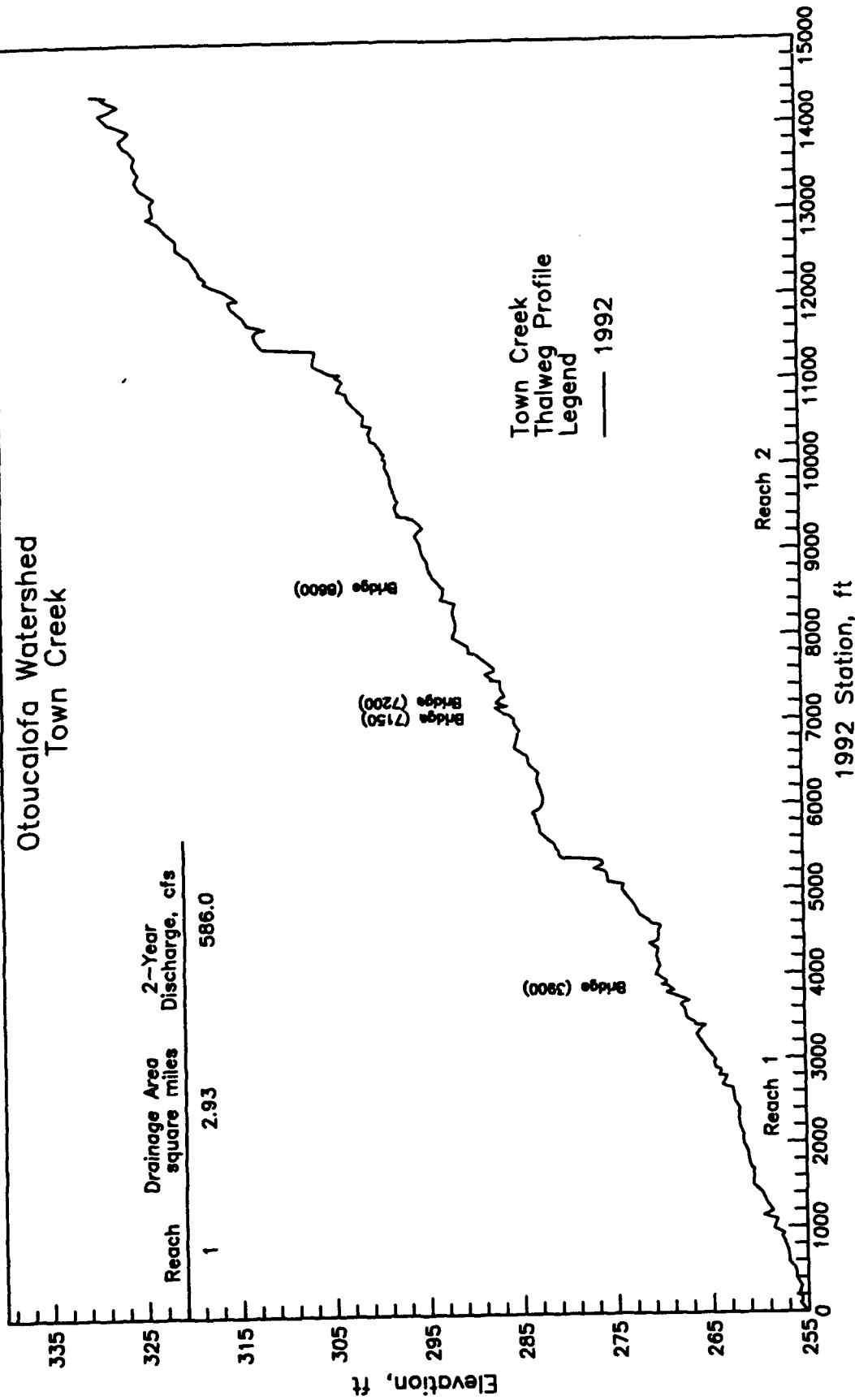
***** 1985

Plate C8



Otocalofa Watershed Town Creek

Reach	Drainage Area square miles	2-Year Discharge, cfs
1	2.93	586.0



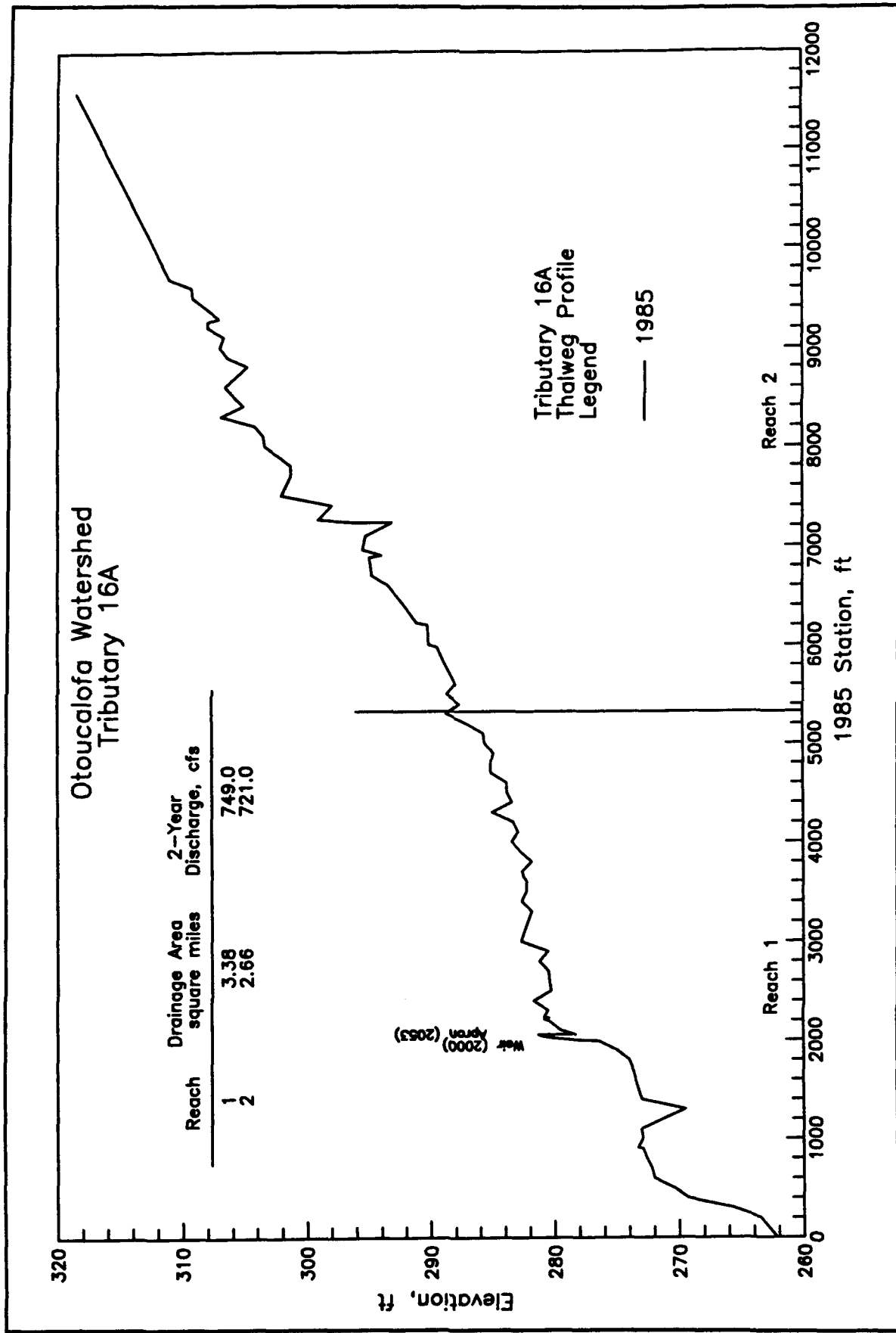
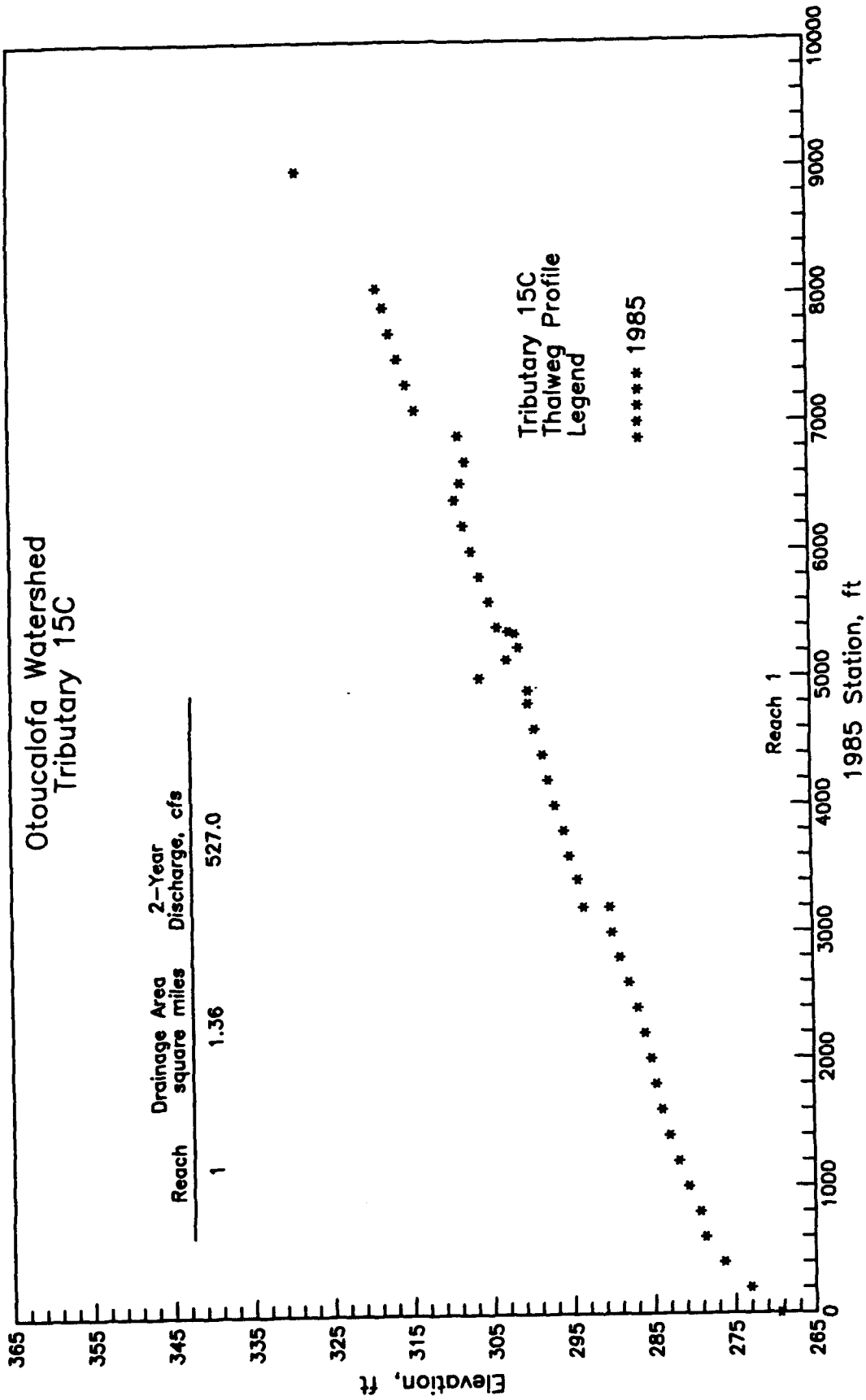


Plate C10

Otocallofa Watershed Tributary 15C

Reach	Drainage Area square miles	2-Year Discharge, cfs
1	1.36	527.0



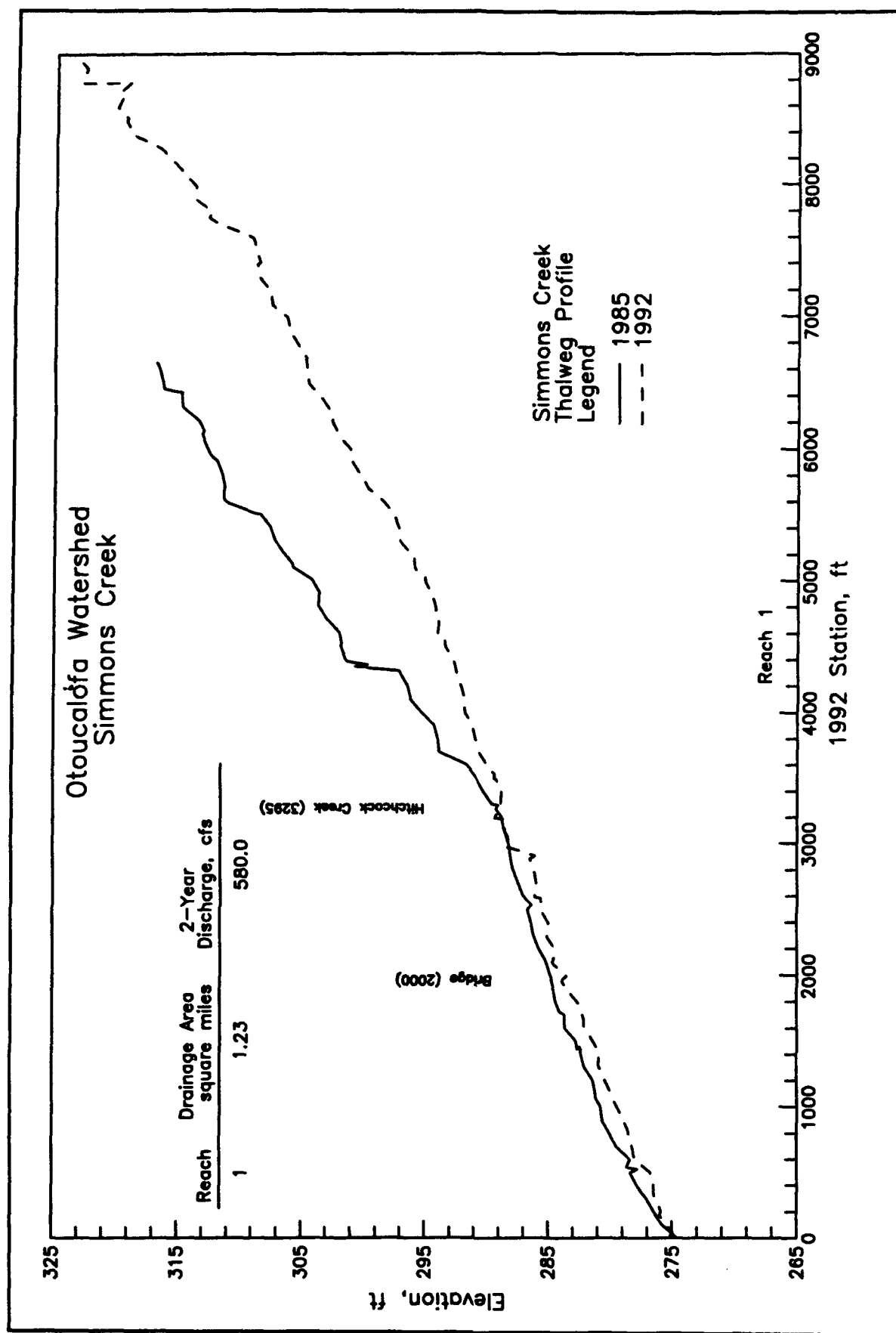


Plate C12

Otocalofa Watershed Hitchcock Creek

Reach	Drainage Area square miles	2-Year Discharge, cfs
1	4.19	791.0
2	3.94	1267.0
3	2.20	
4	1.40	

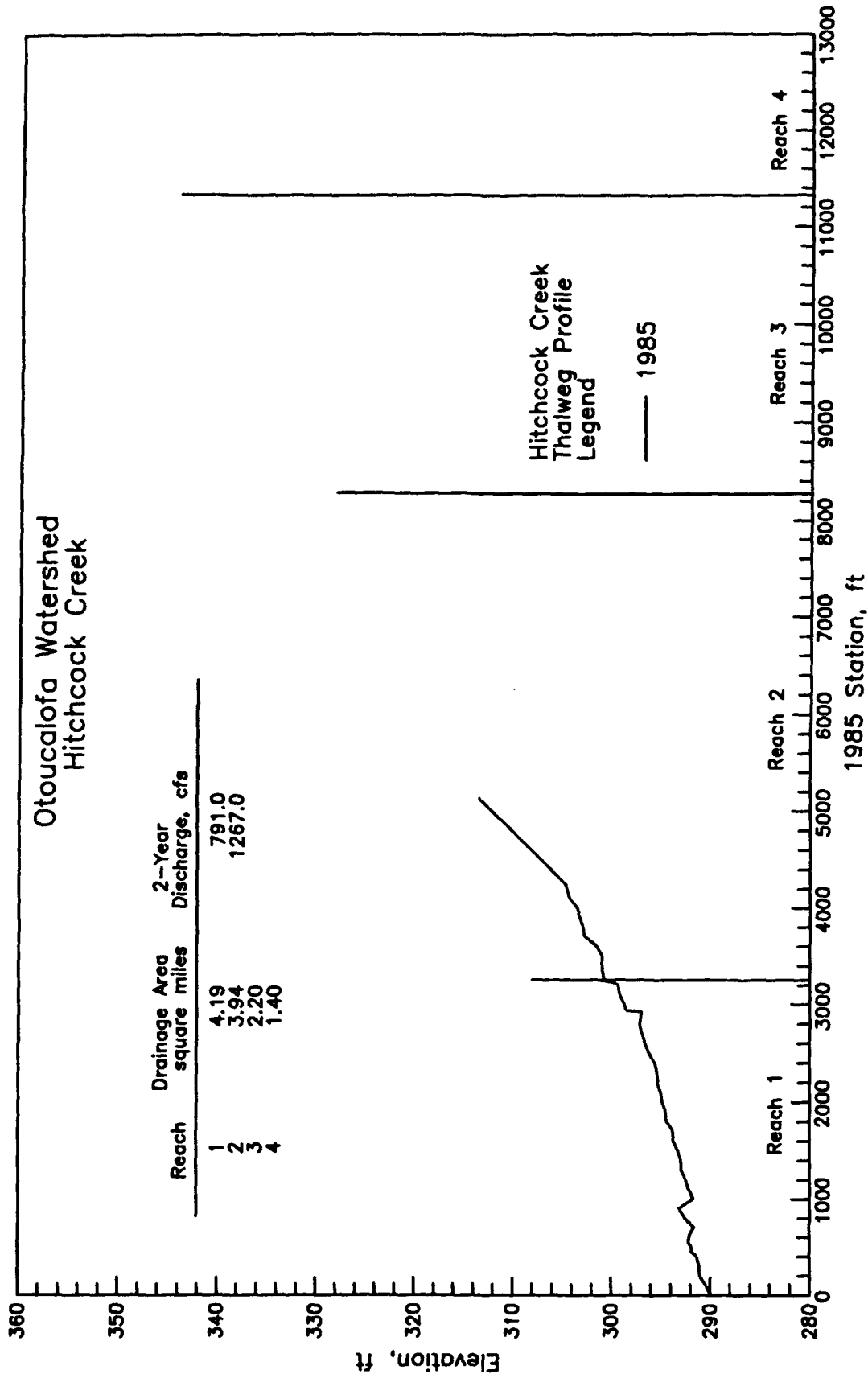
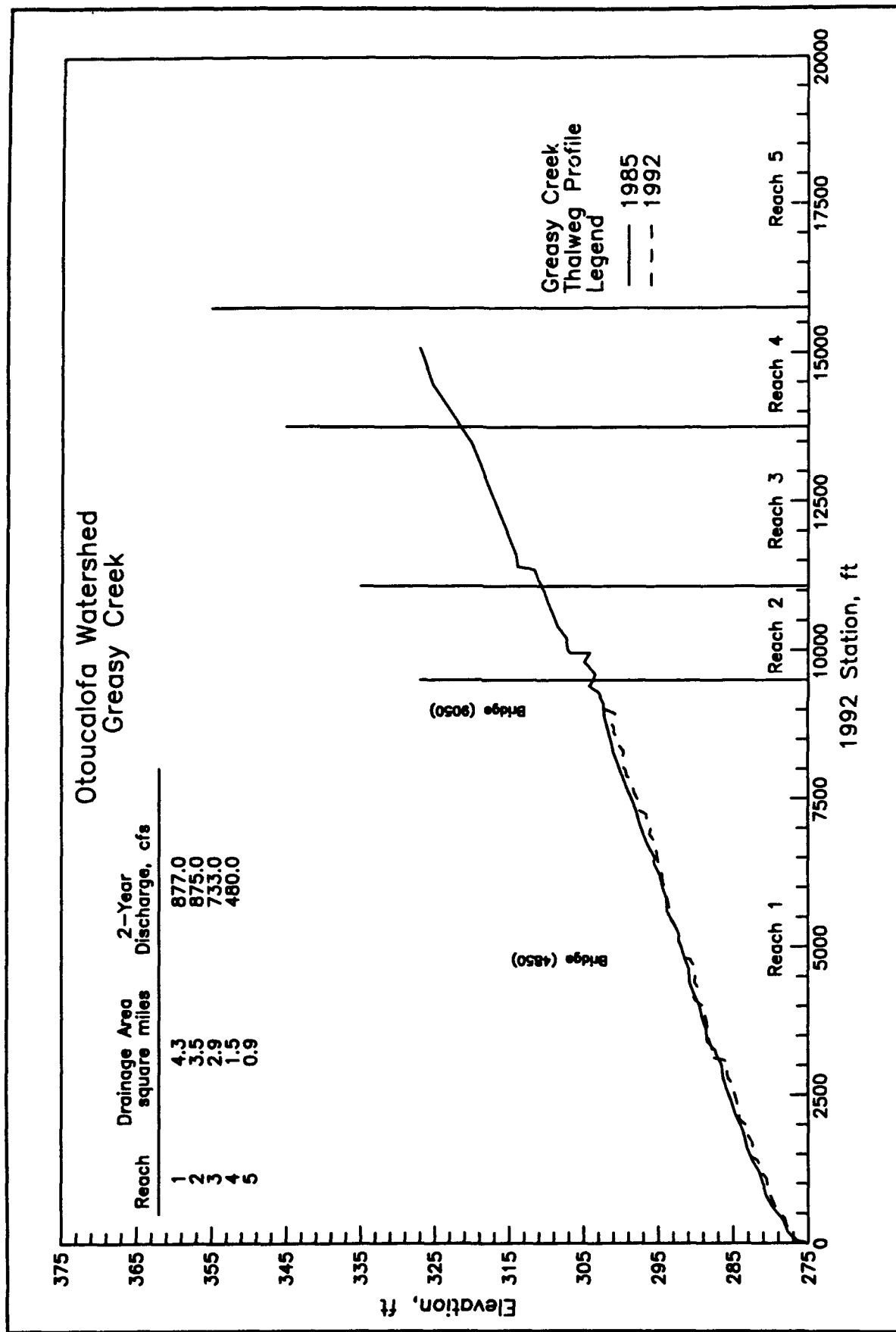


Plate C14



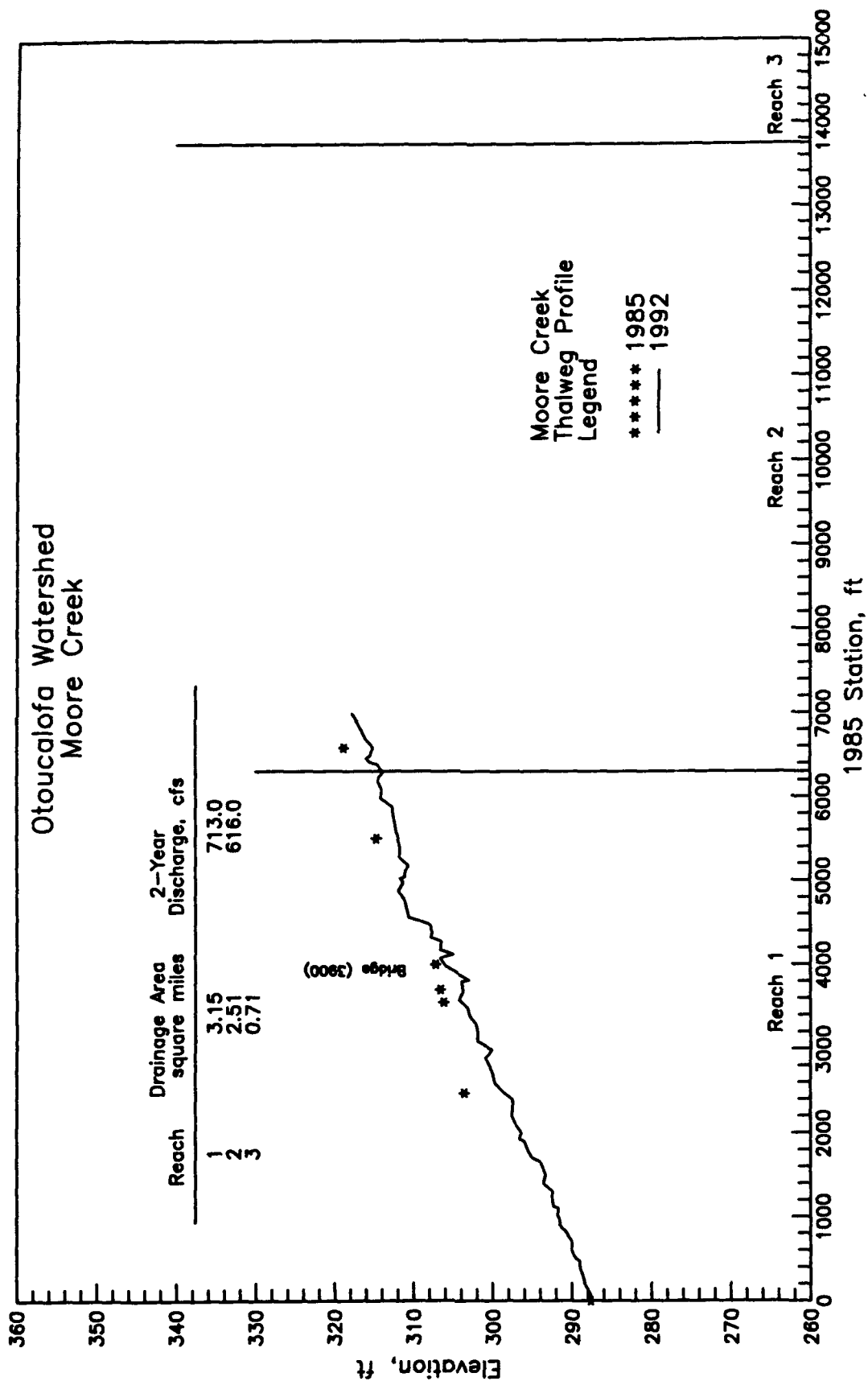
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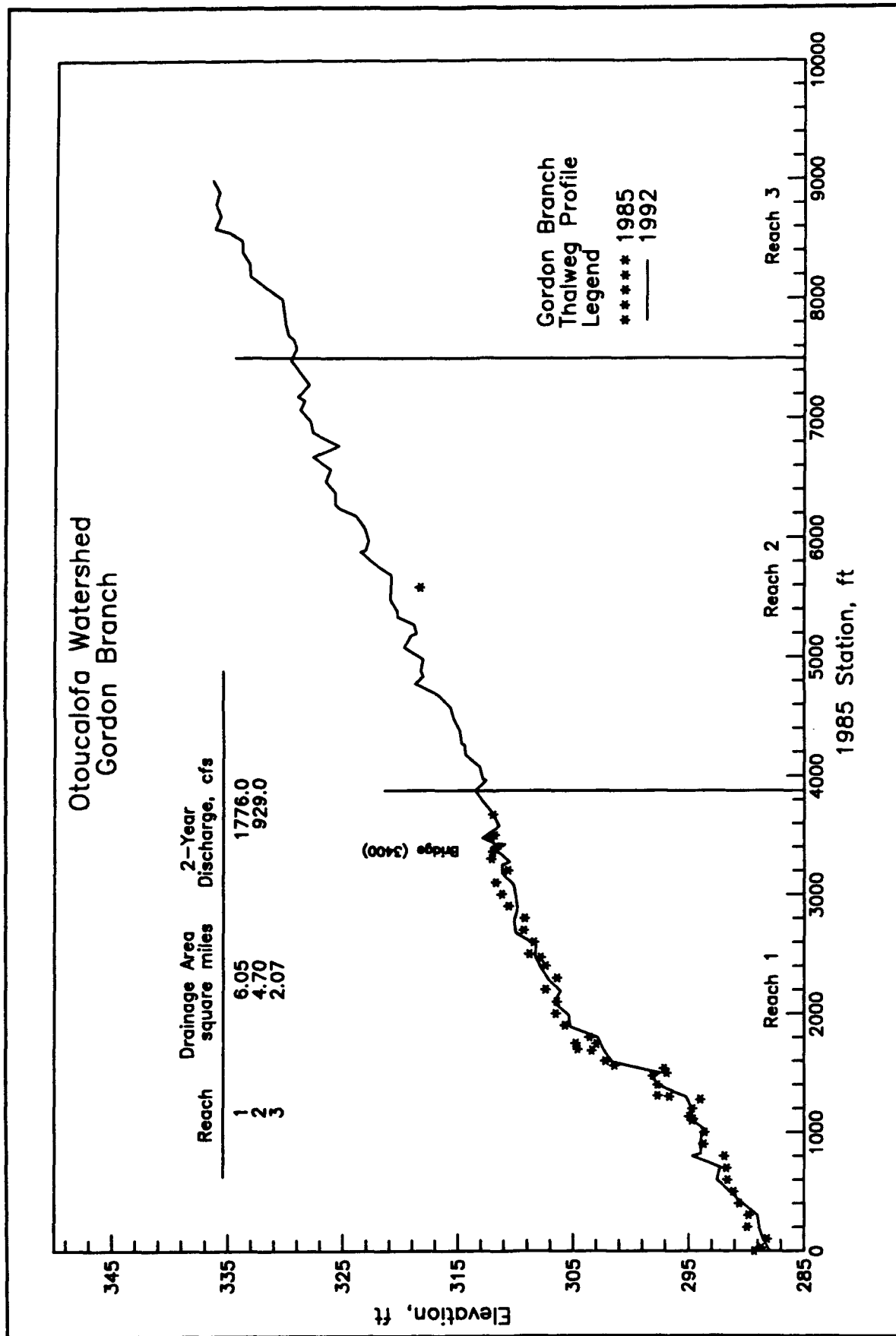
Reach	Drainage Area square miles	2-Year Discharge, cfs
1	3.15	713.0
2	2.51	616.0
3	0.71	

Bridge (3900)

Moore Creek
Thalweg Profile
Legend

***** 1985
— 1992





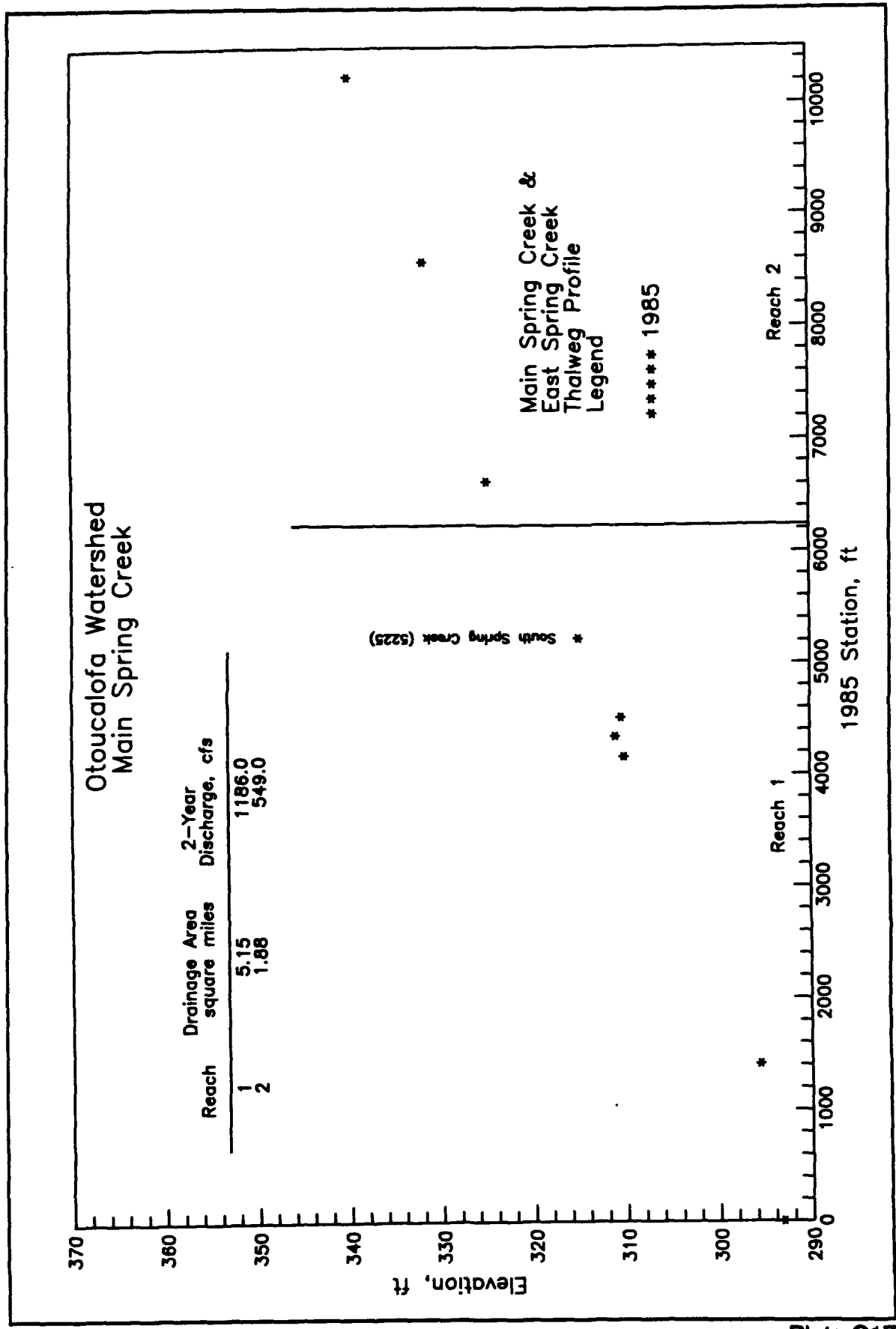
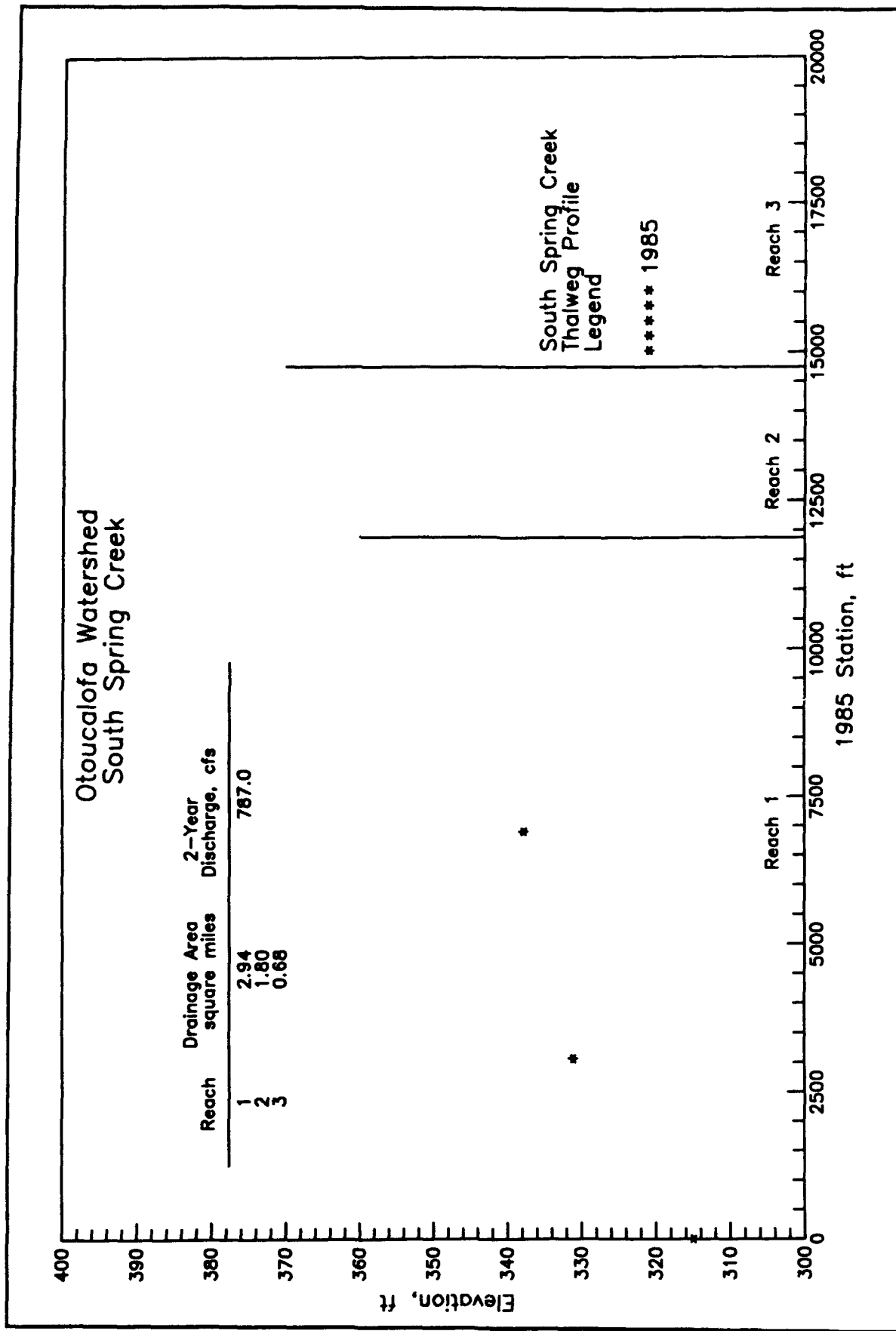
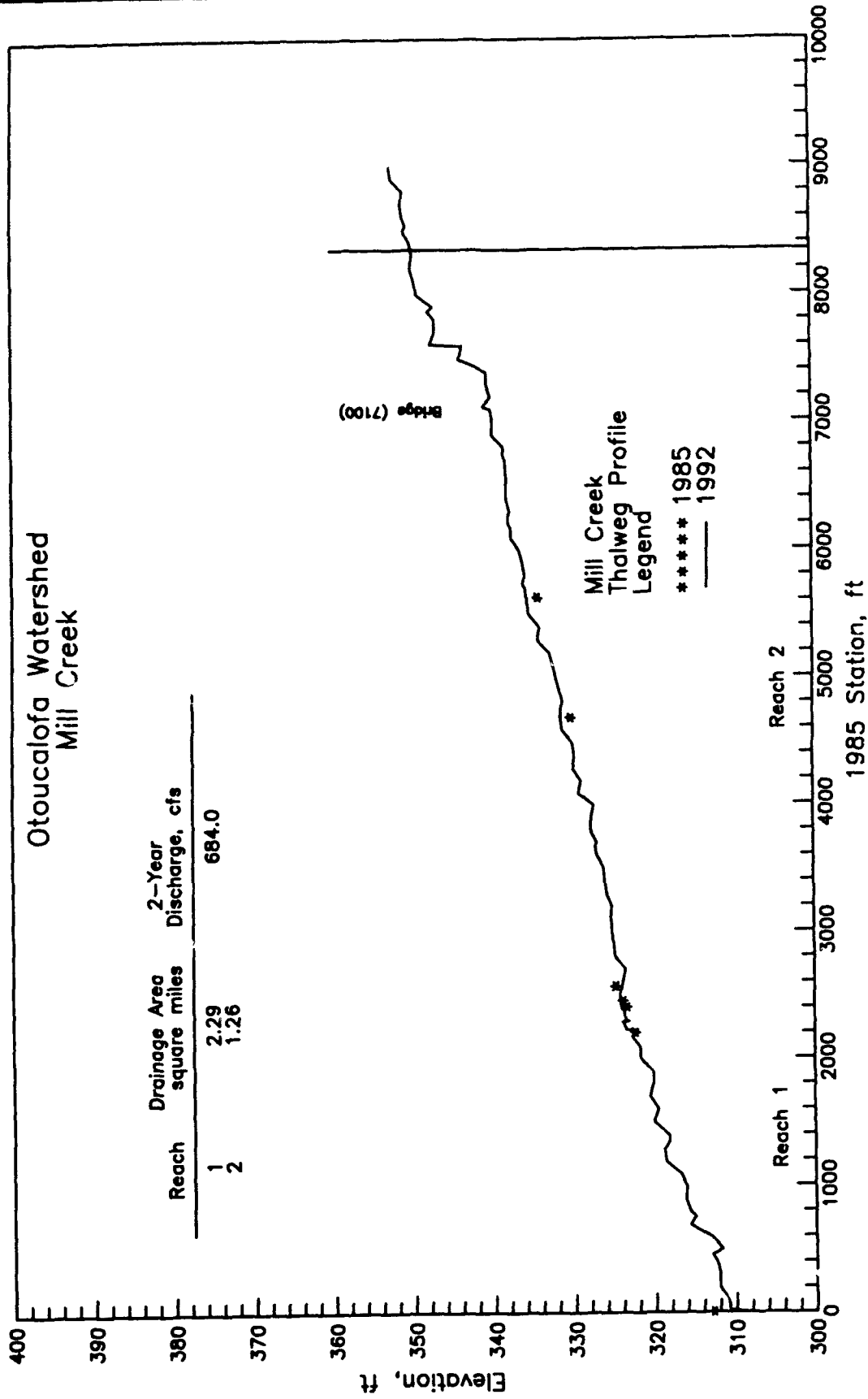


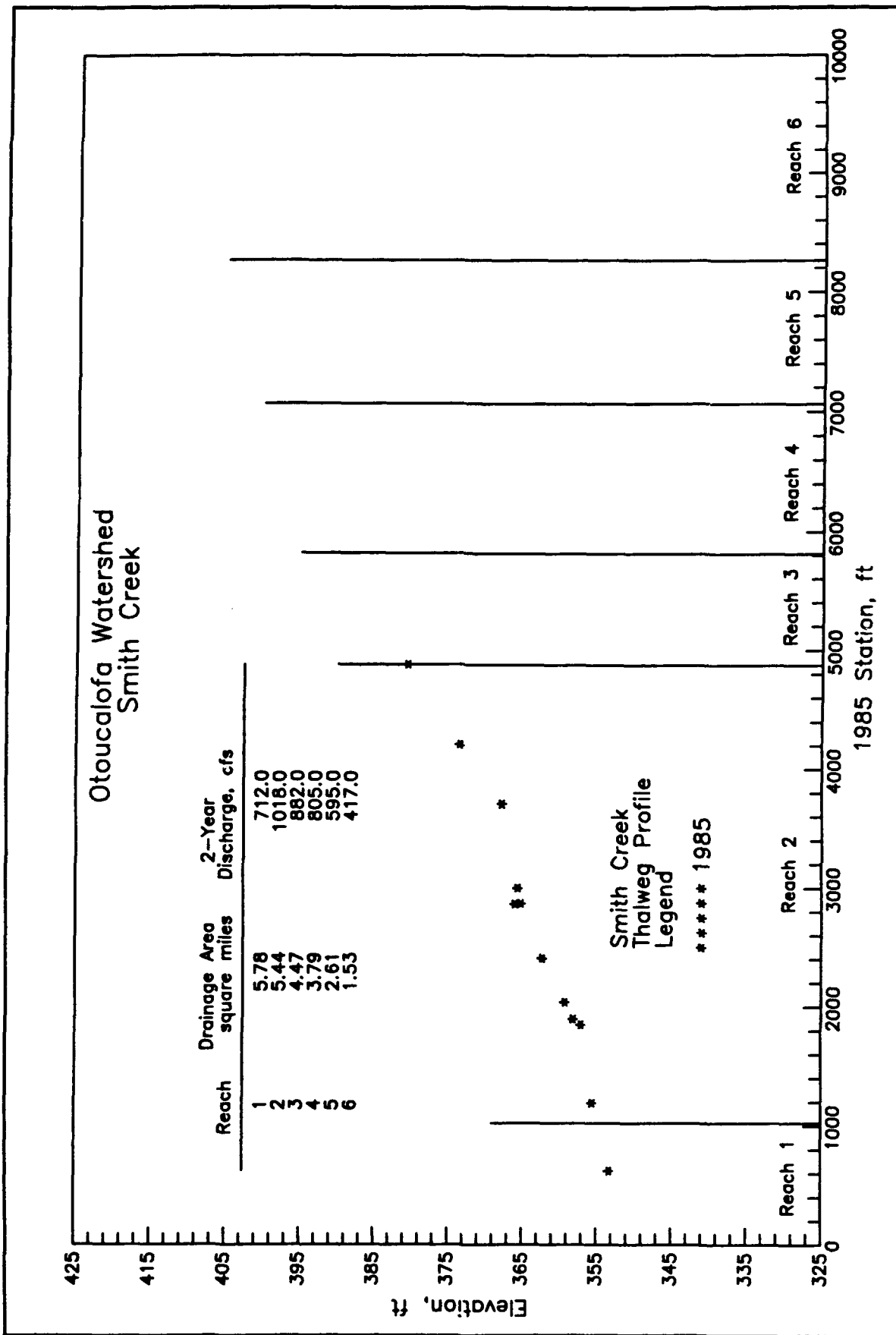
Plate C18



Otocalofa Watershed Mill Creek

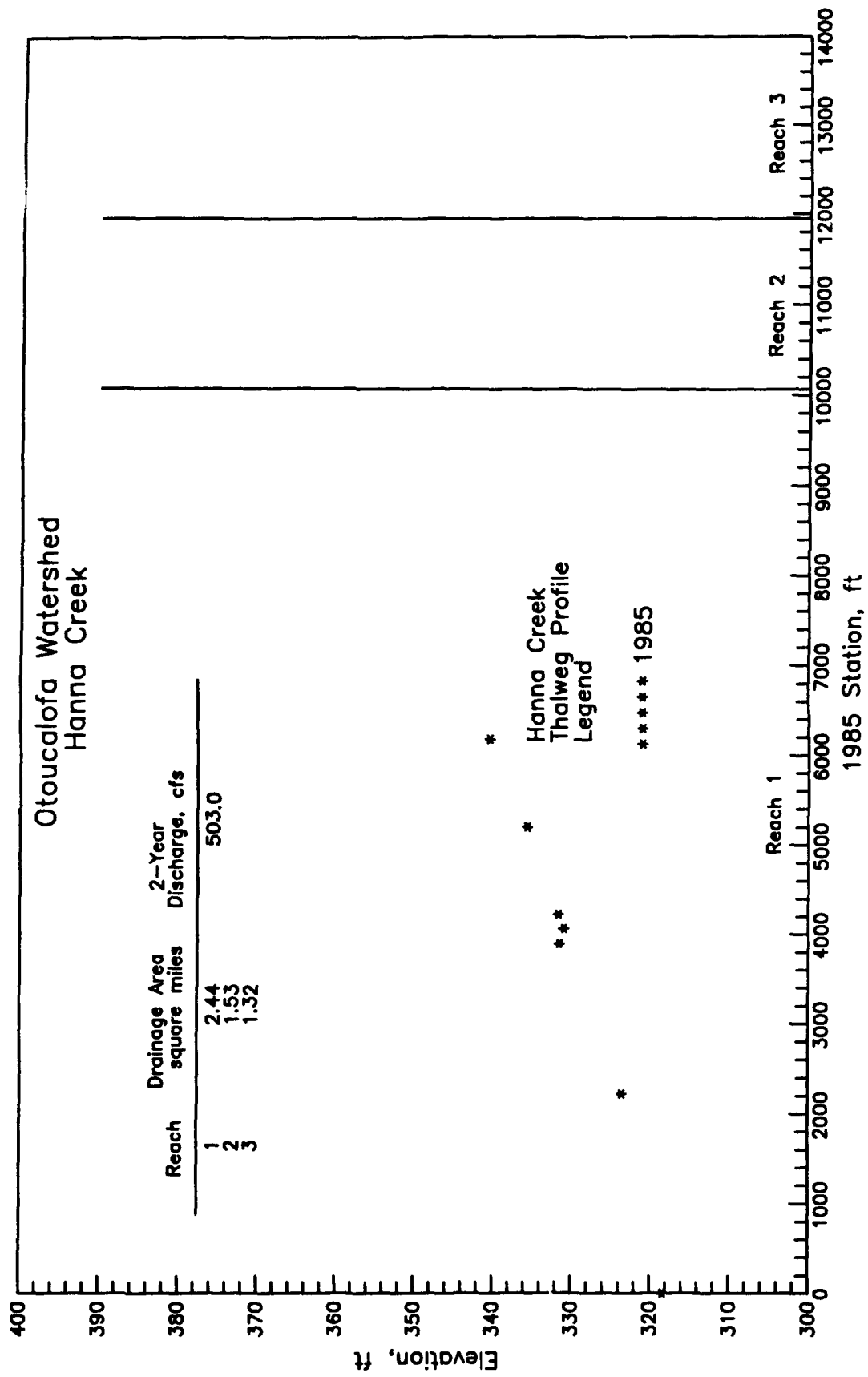
Reach	Drainage Area square miles	2-Year Discharge, cfs
1	2.29	684.0
2	1.26	





Otocalofa Watershed Hanna Creek

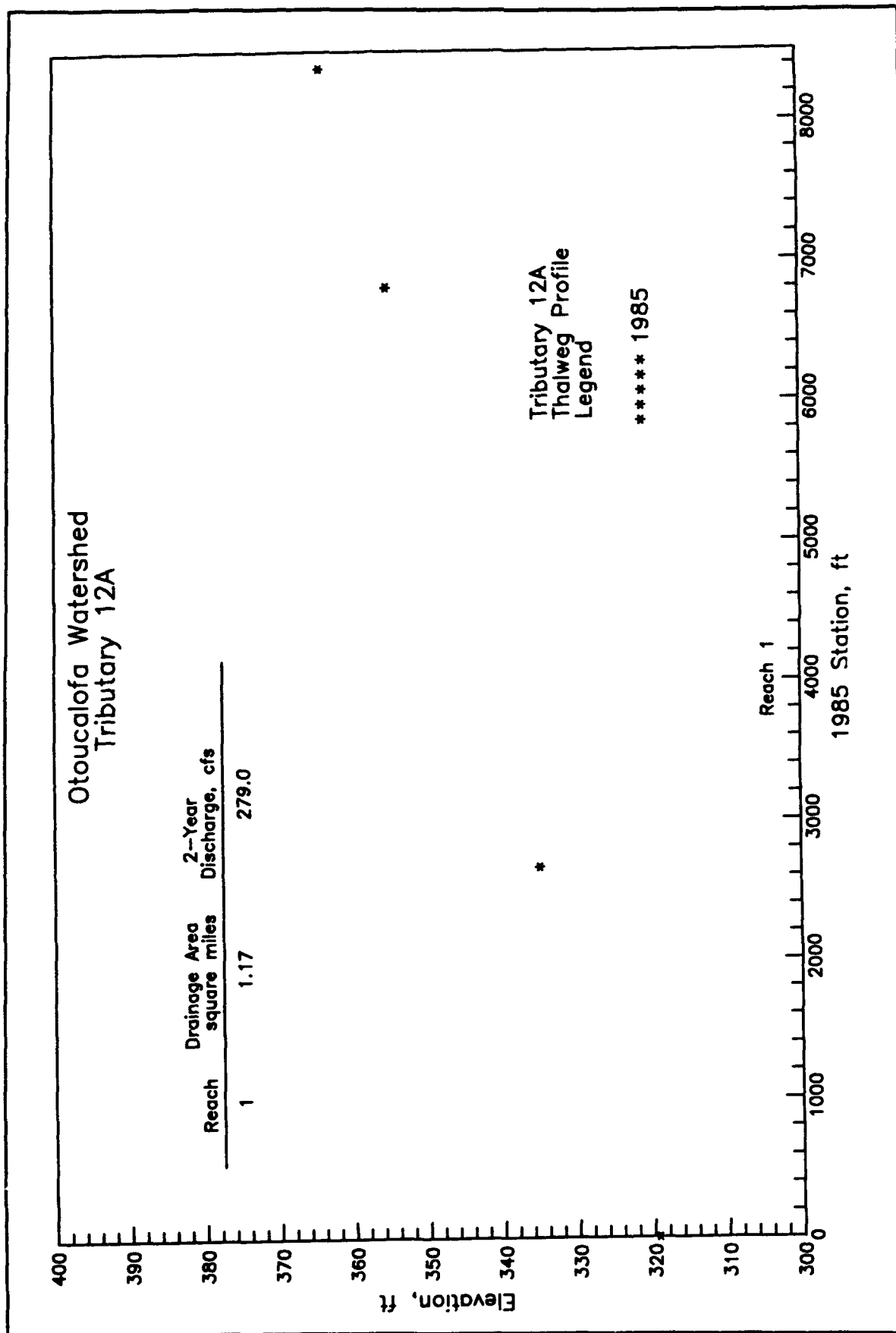
Reach	Drainage Area square miles	2-Year Discharge, cfs
1	2.44	503.0
2	1.53	
3	1.32	



Hanna Creek
Thalweg Profile
Legend

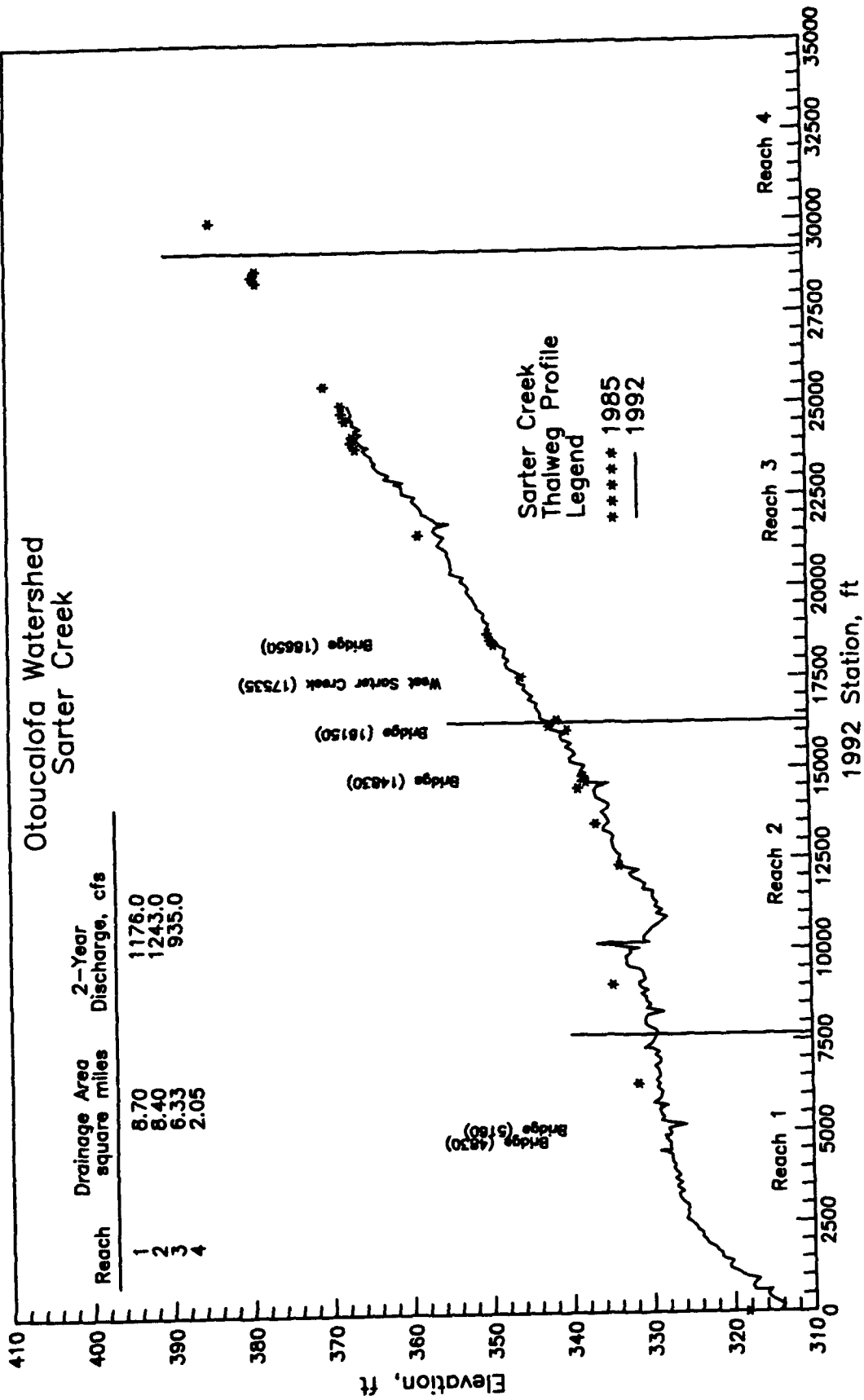
***** 1985

Plate C22

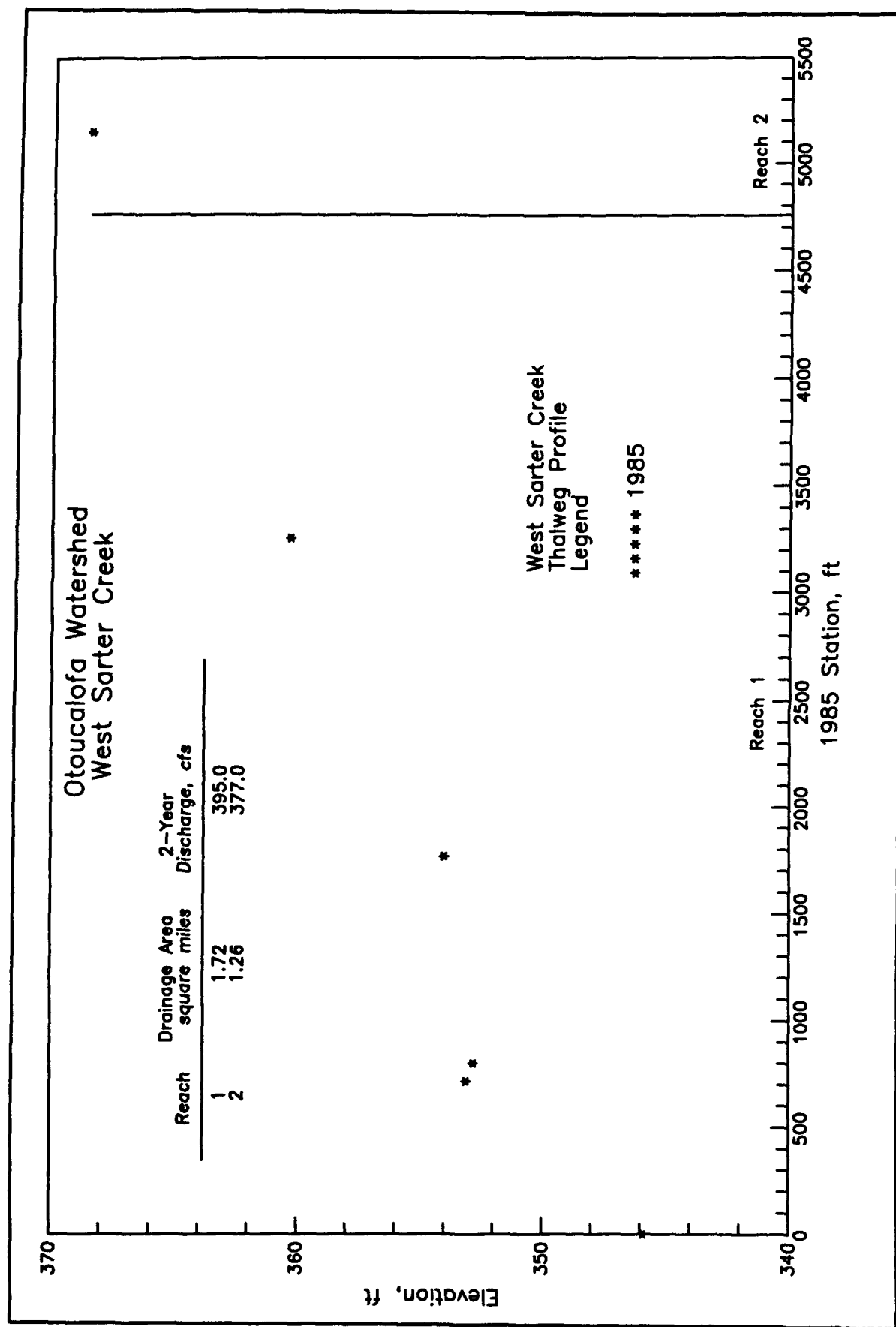


Otocalofa Watershed Sarter Creek

Reach	Drainage Area square miles	2-Year Discharge, cfs
1	8.70	1176.0
2	8.40	1243.0
3	6.33	935.0
4	2.05	

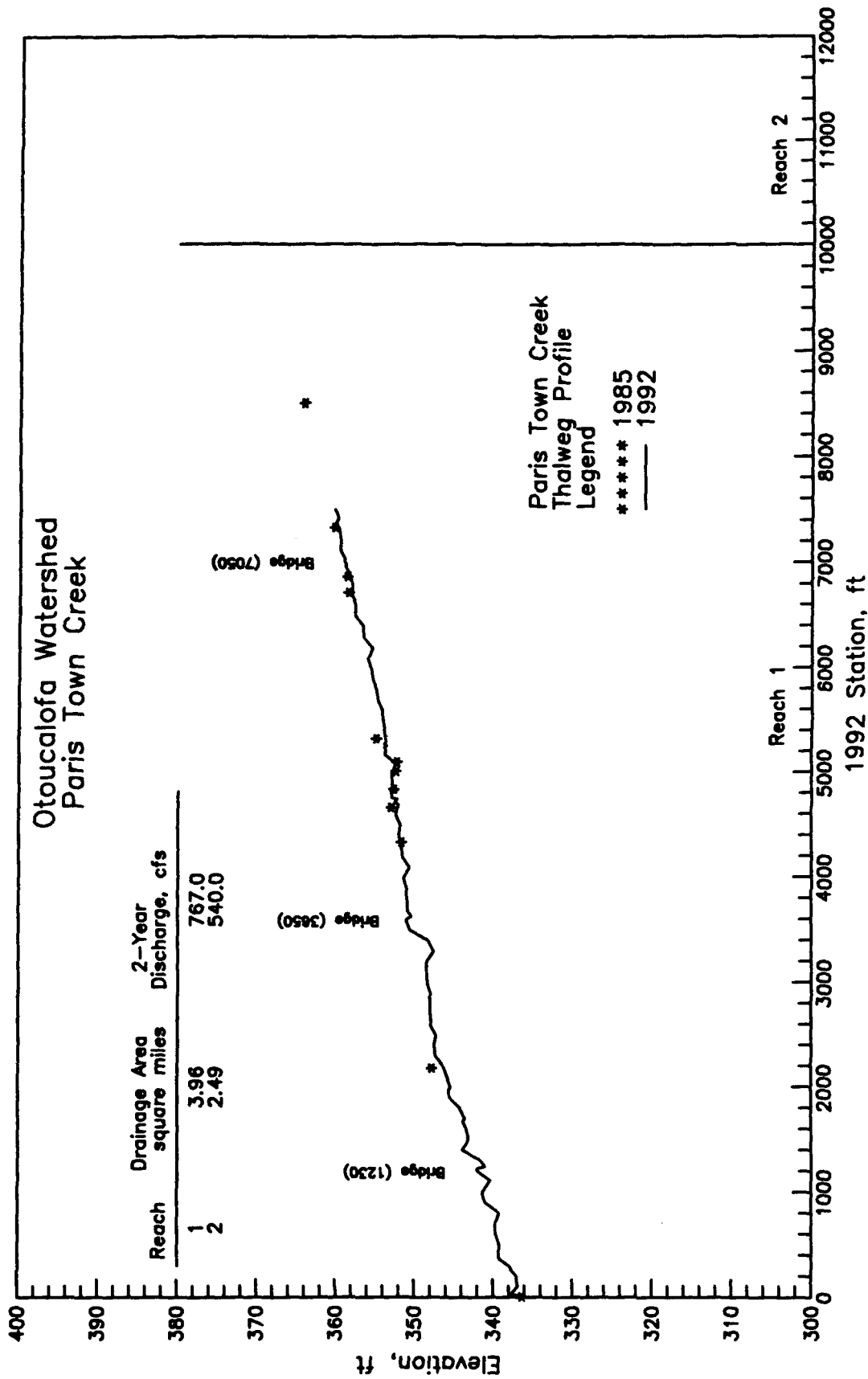


Sarter Creek
Thalweg Profile
Legend
***** 1985
— 1992



Otocalofa Watershed Paris Town Creek

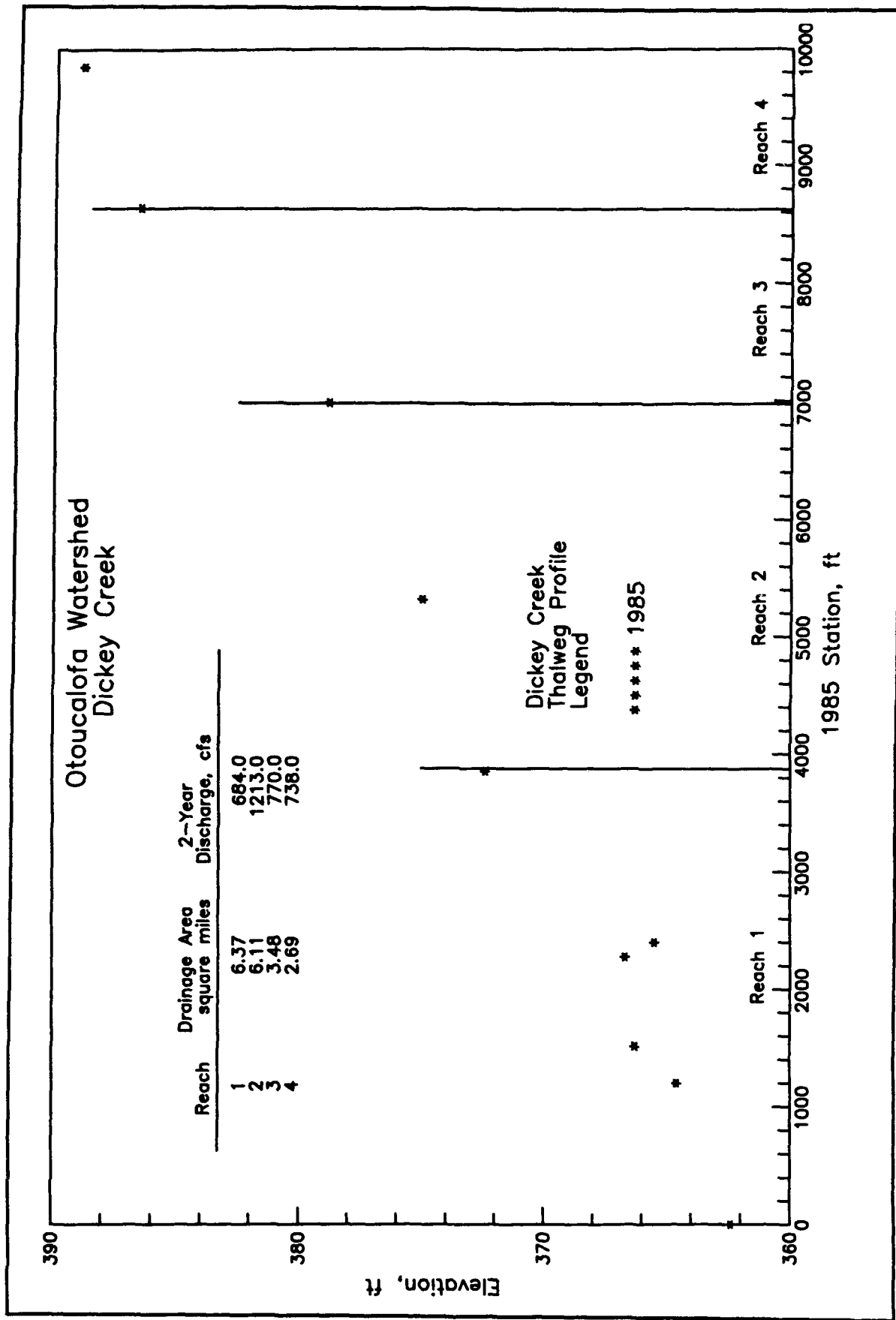
Reach	Drainage Area square miles	2-Year Discharge, cfs
1	3.96	767.0
2	2.49	540.0



Paris Town Creek
Thalweg Profile
Legend

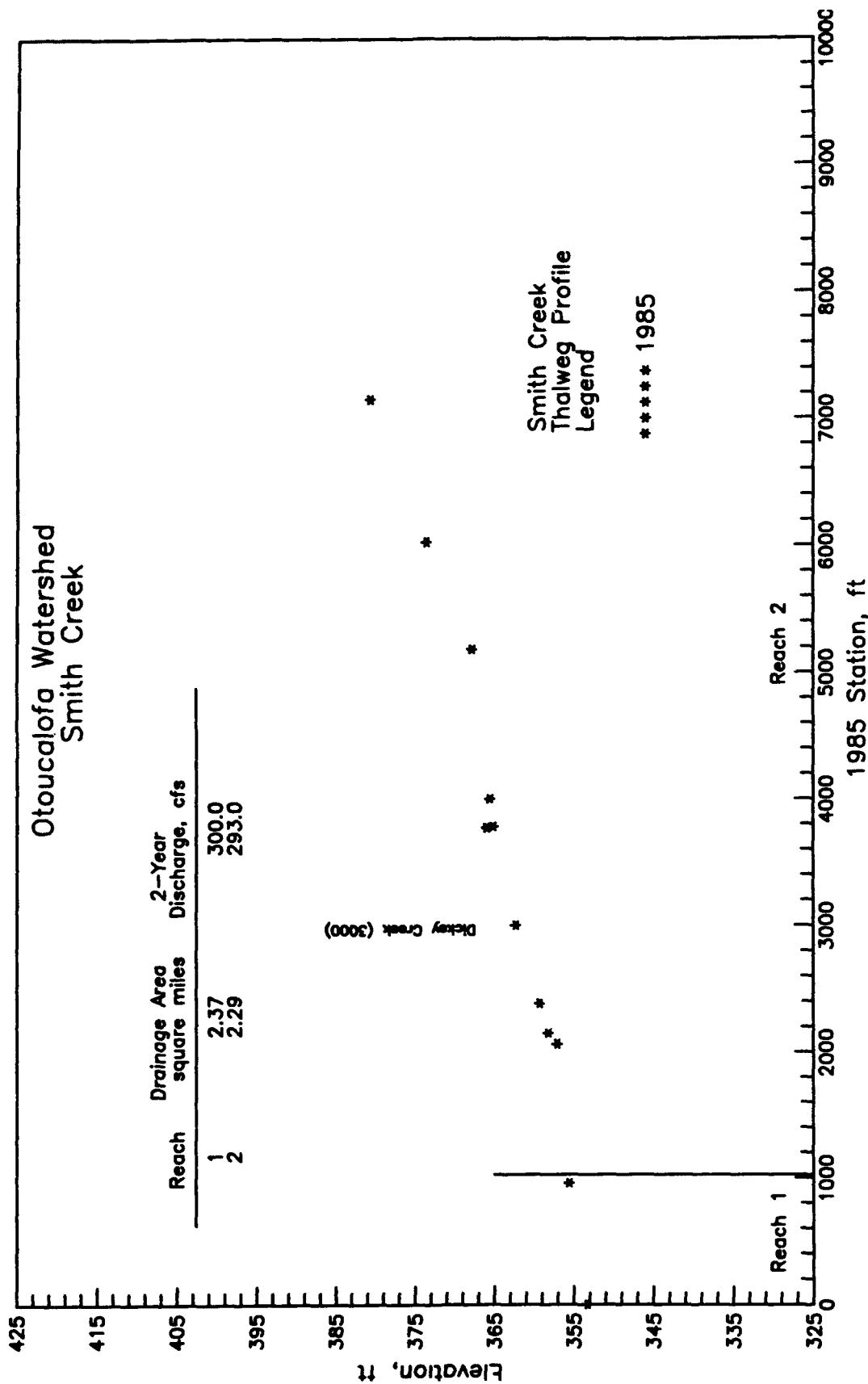
***** 1985
—— 1992

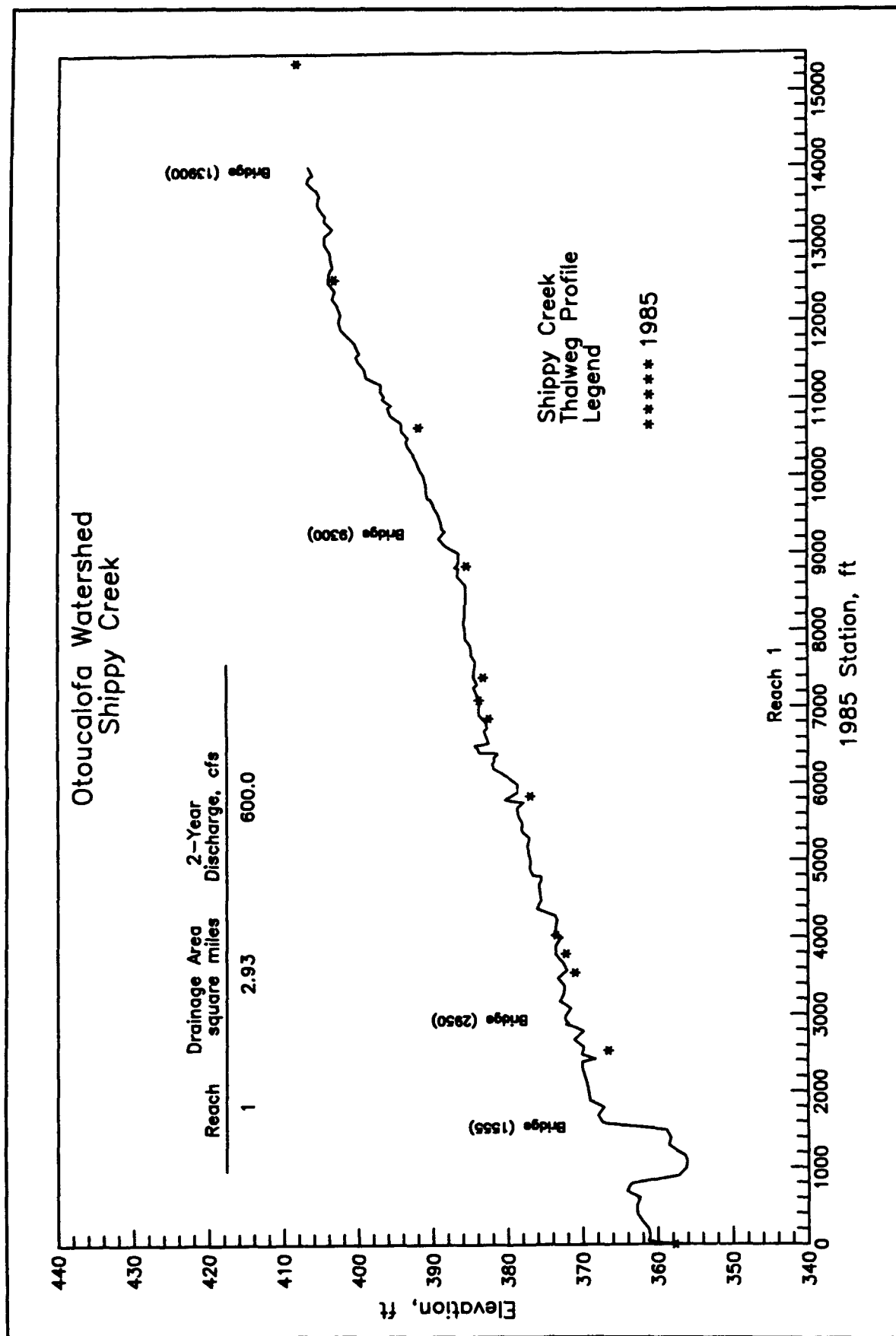
Reach 1
Reach 2
1992 Station, ft

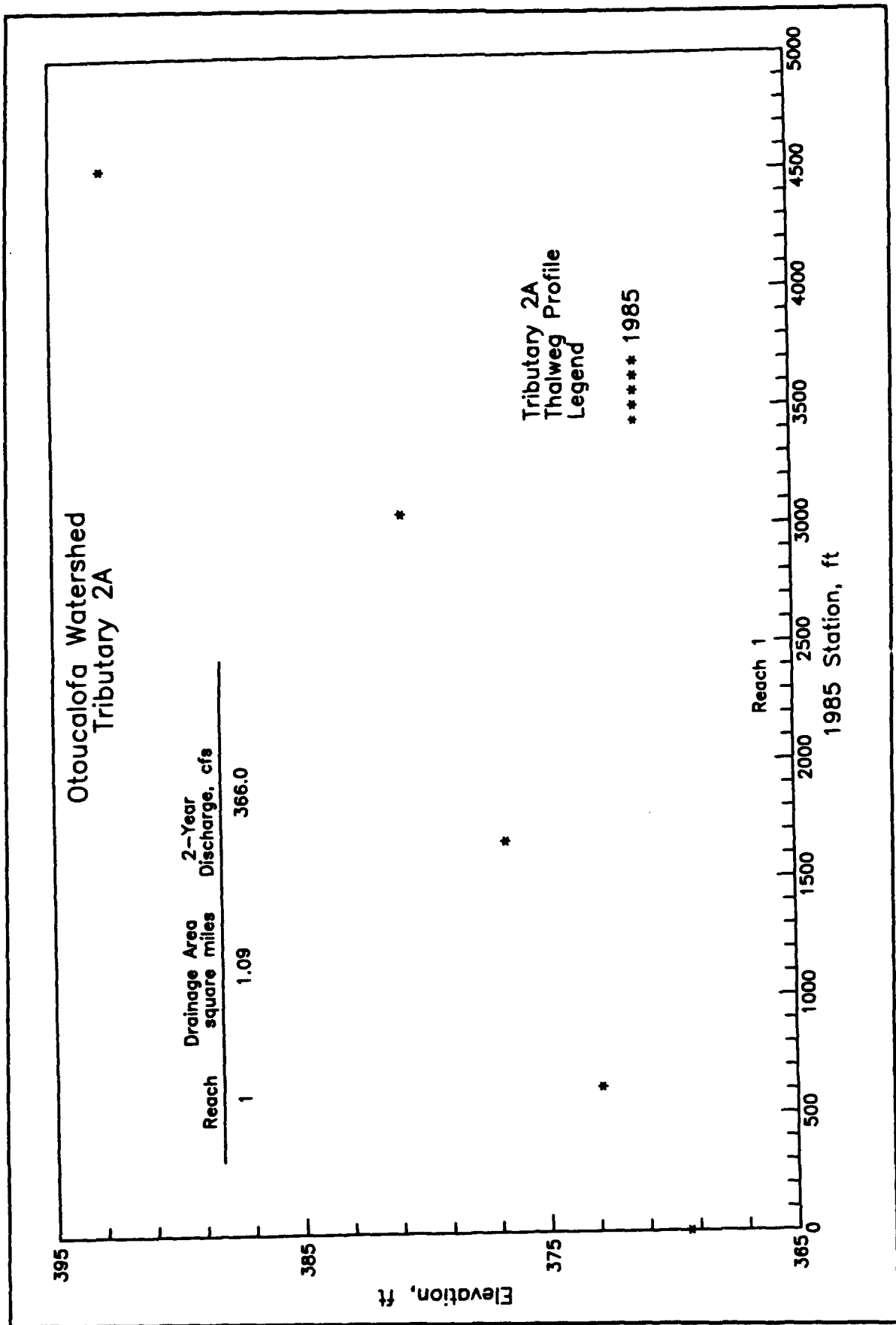


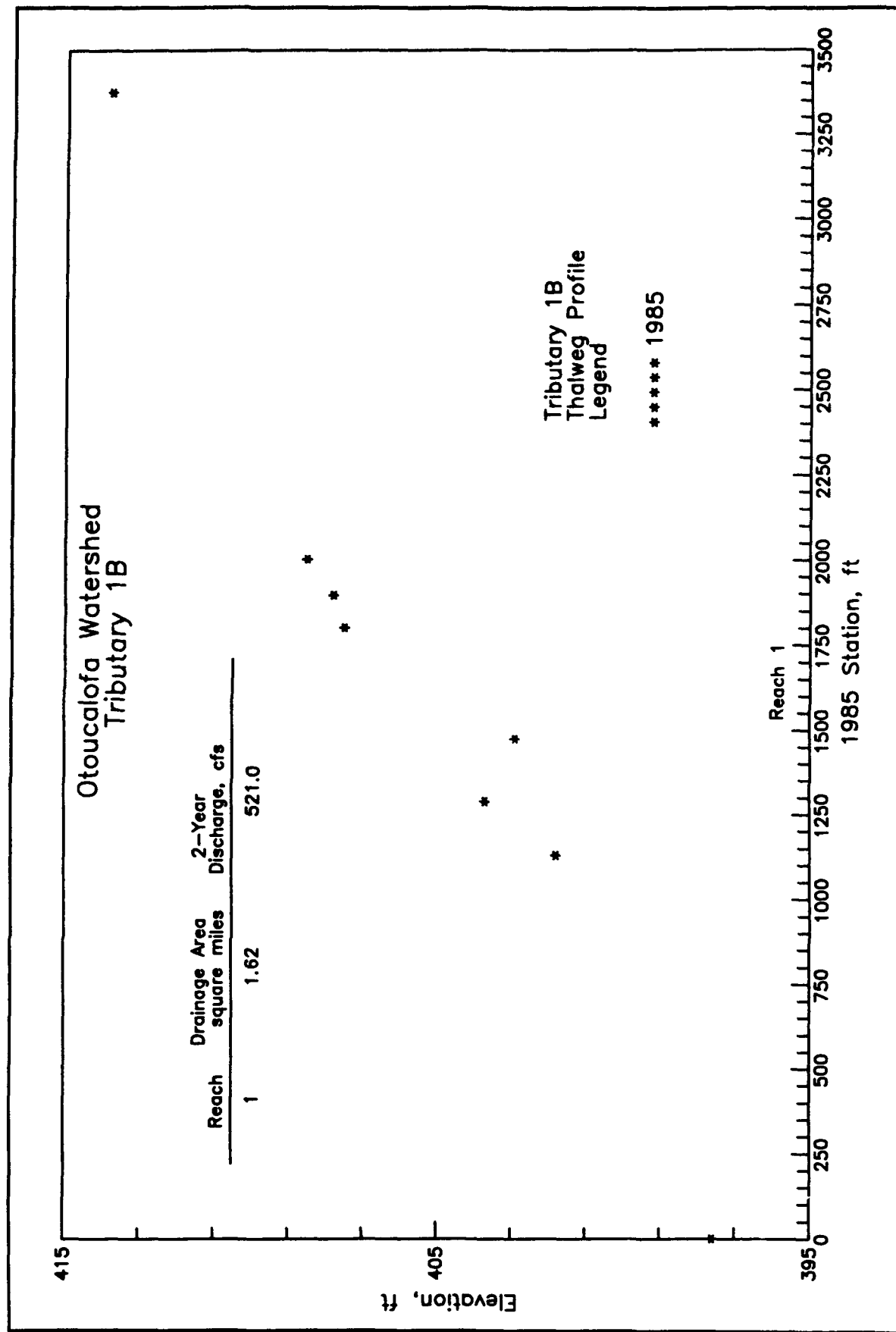
Otoucalofa Watershed Smith Creek

Reach	Drainage Area square miles	2-Year Discharge, cfs
1	2.37	300.0
2	2.29	293.0

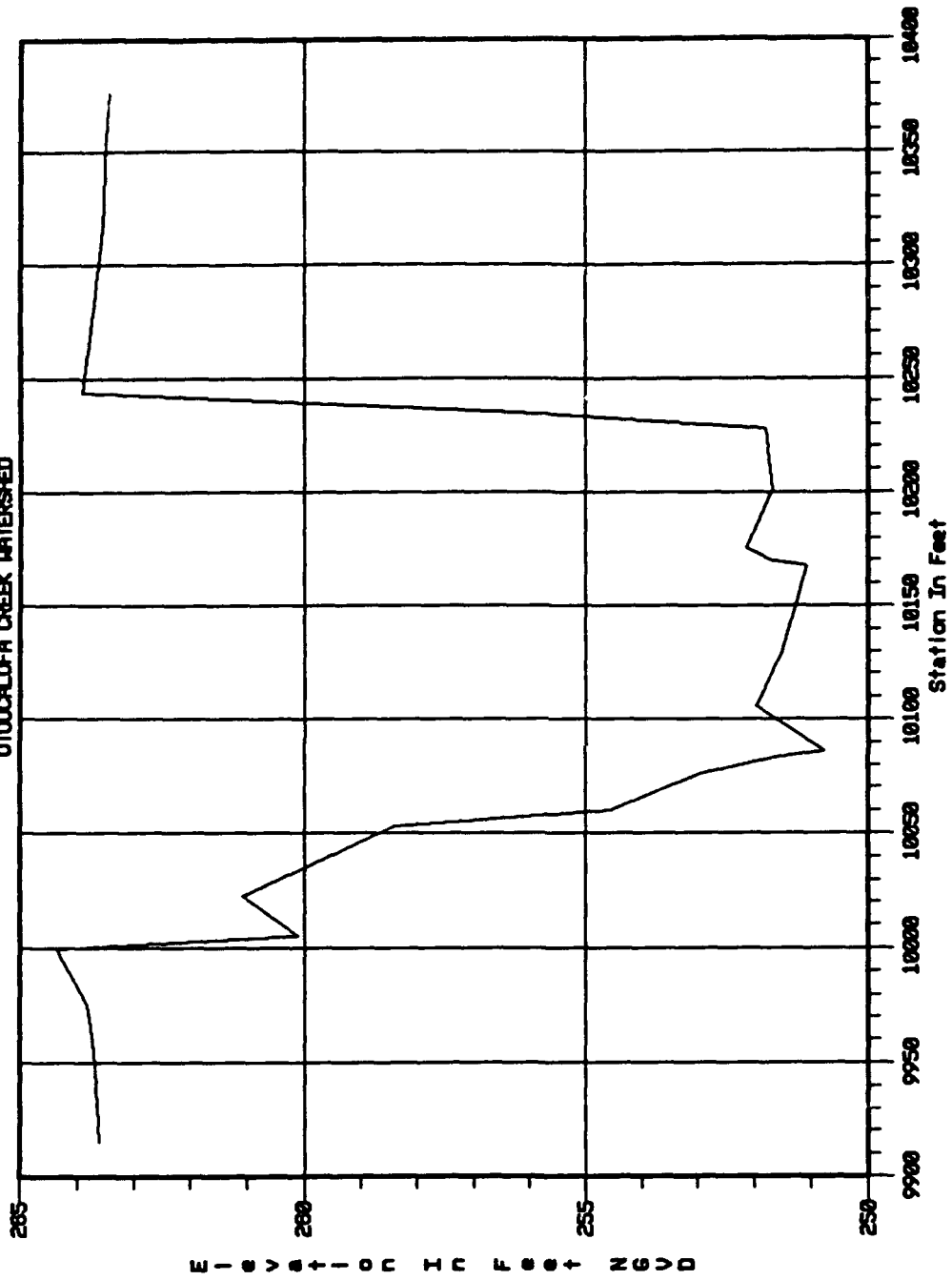








OTTOLOLOFA CREEK WATERSHED



OTTOLOLOFA CREEK 1992 XSEC 208

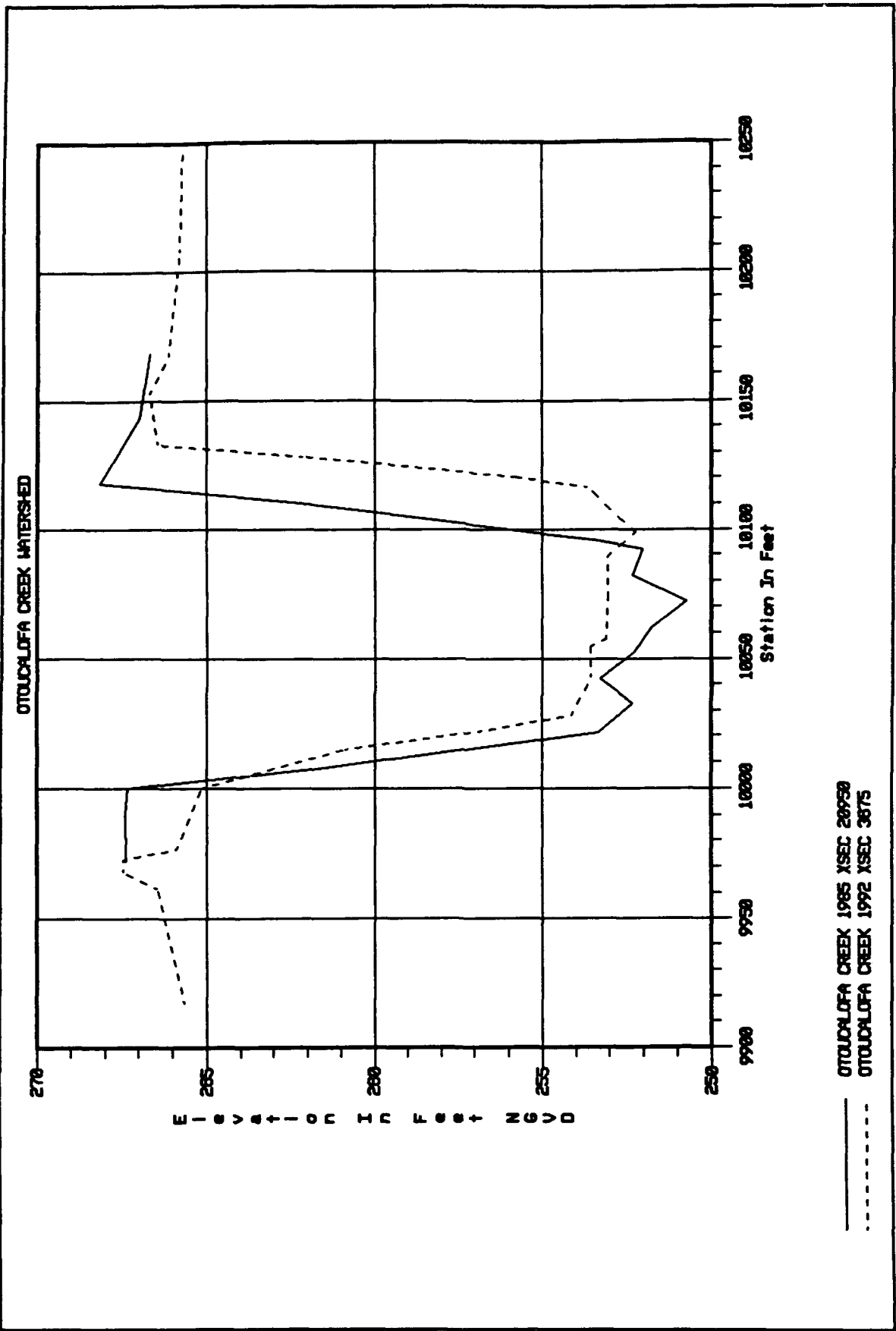
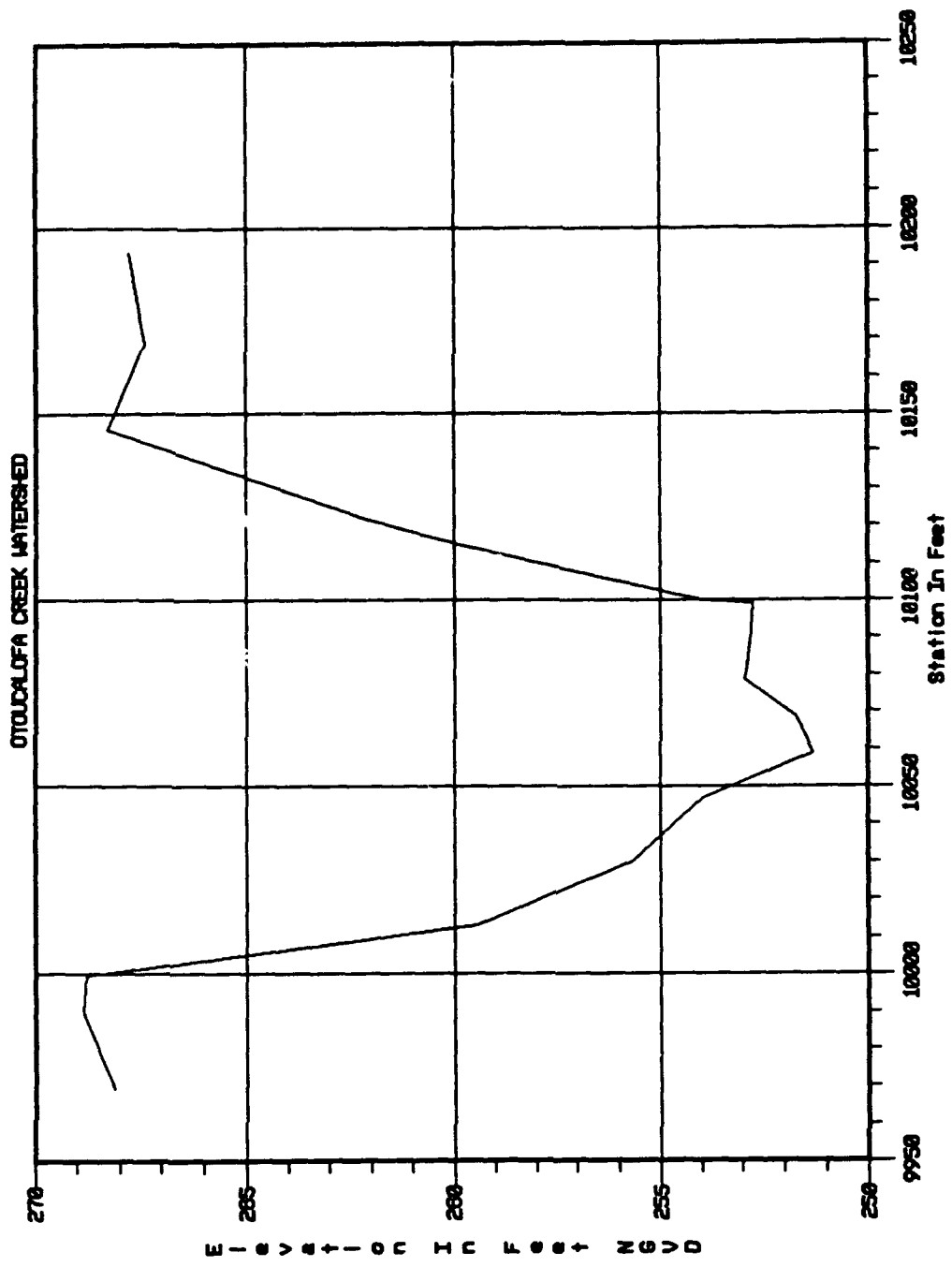
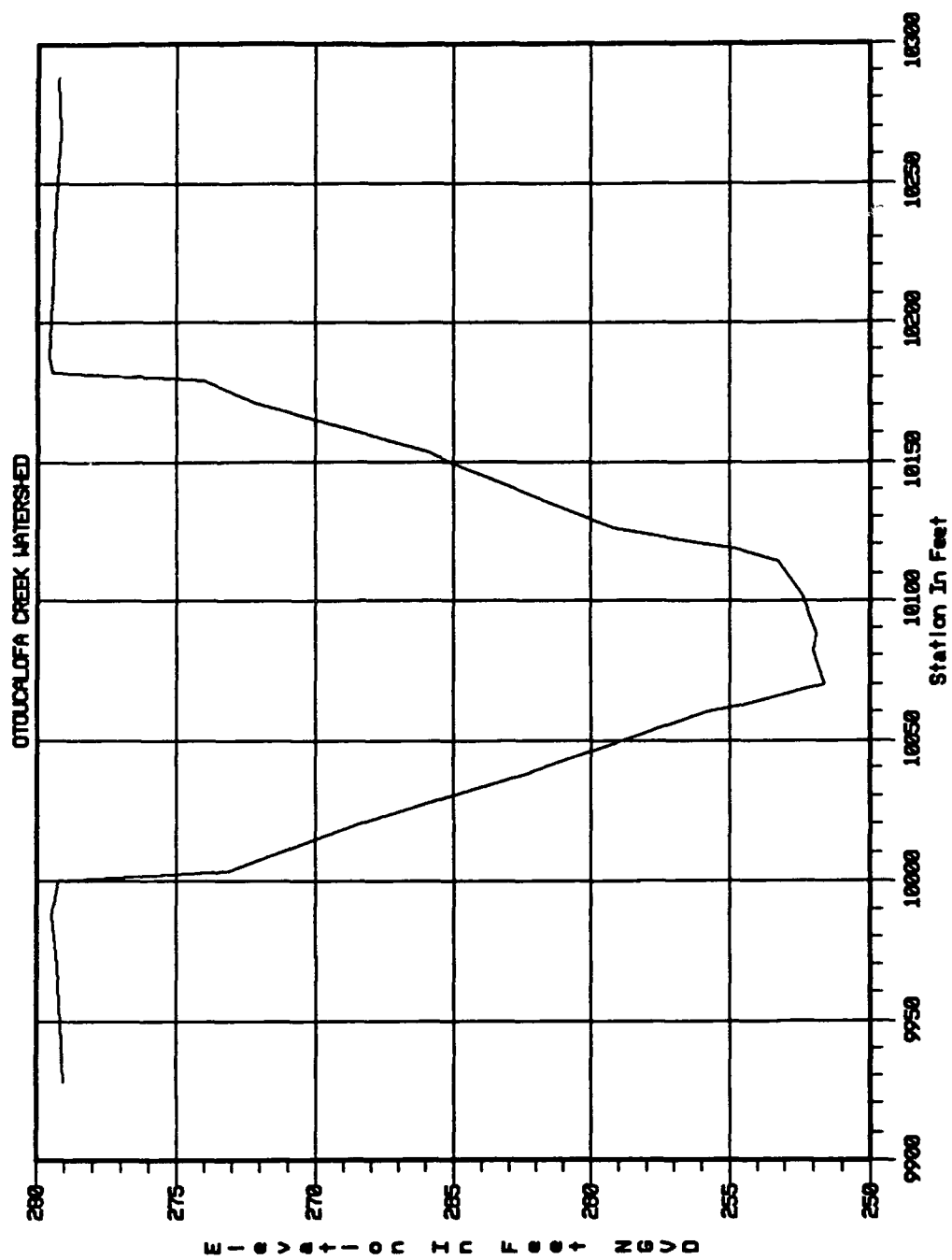


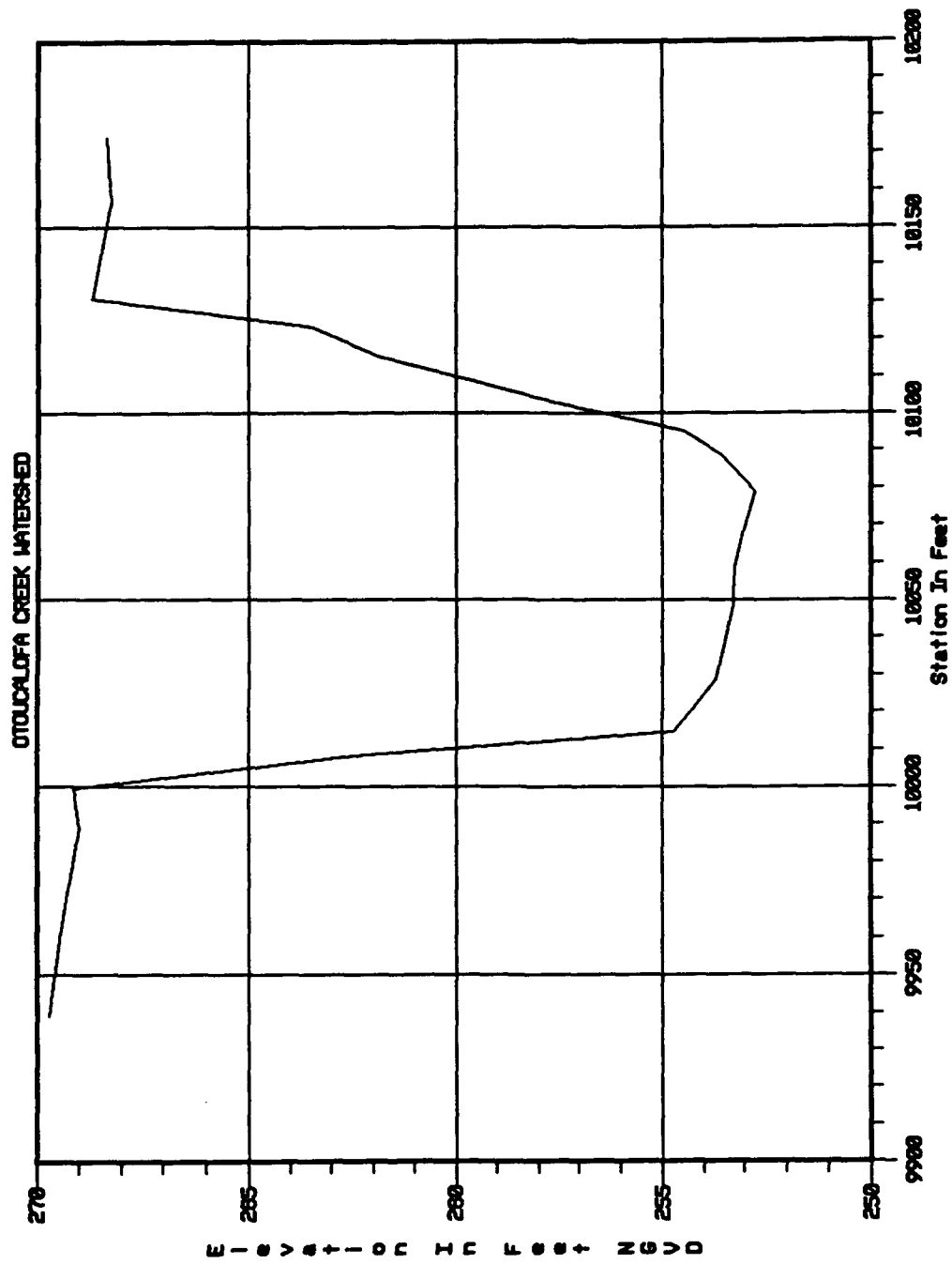
Plate C32



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OTOUALLOFA CREEK 1992 XSEC 5527



OTTOQUALOFA CREEK 1965 XSEC 22850

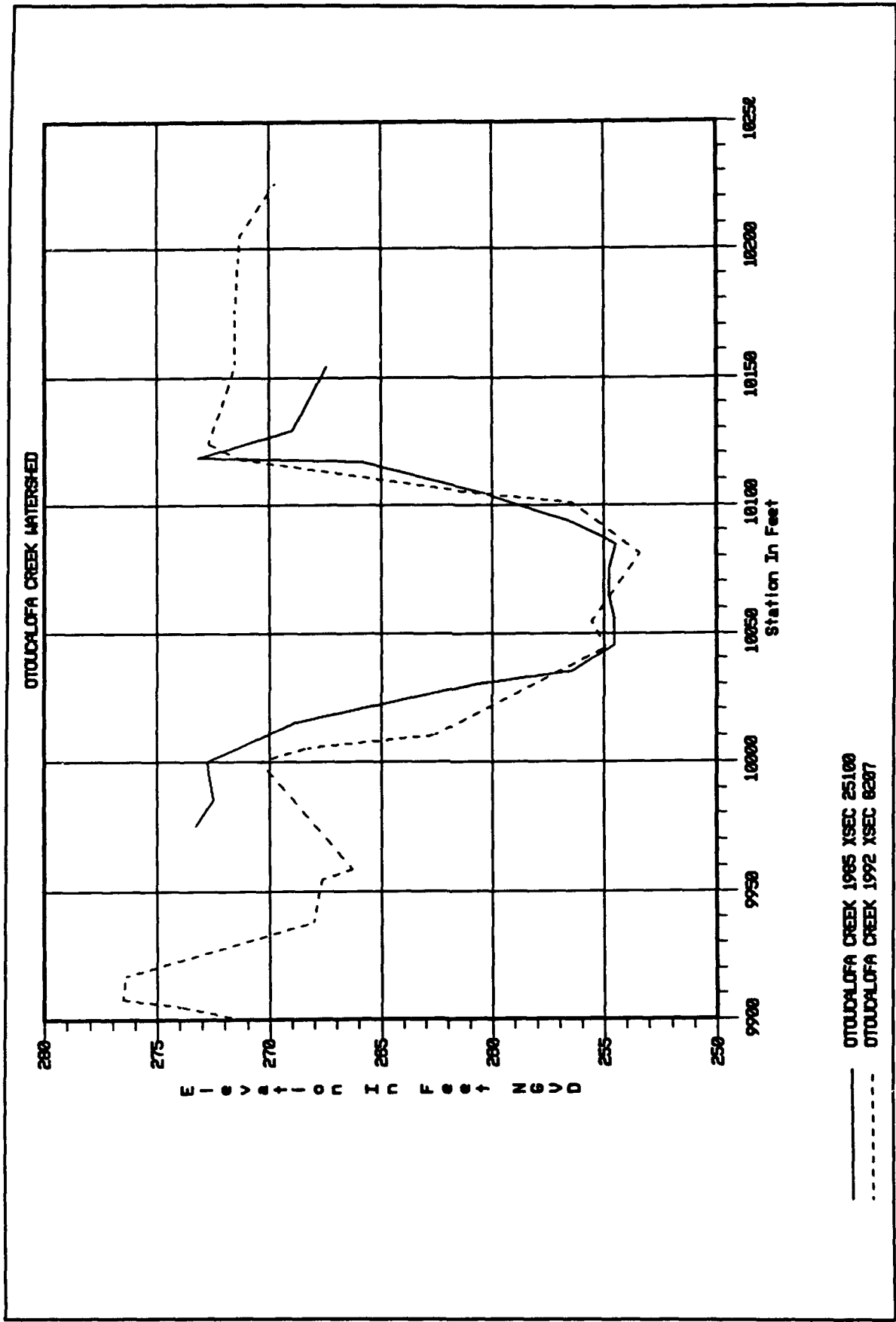
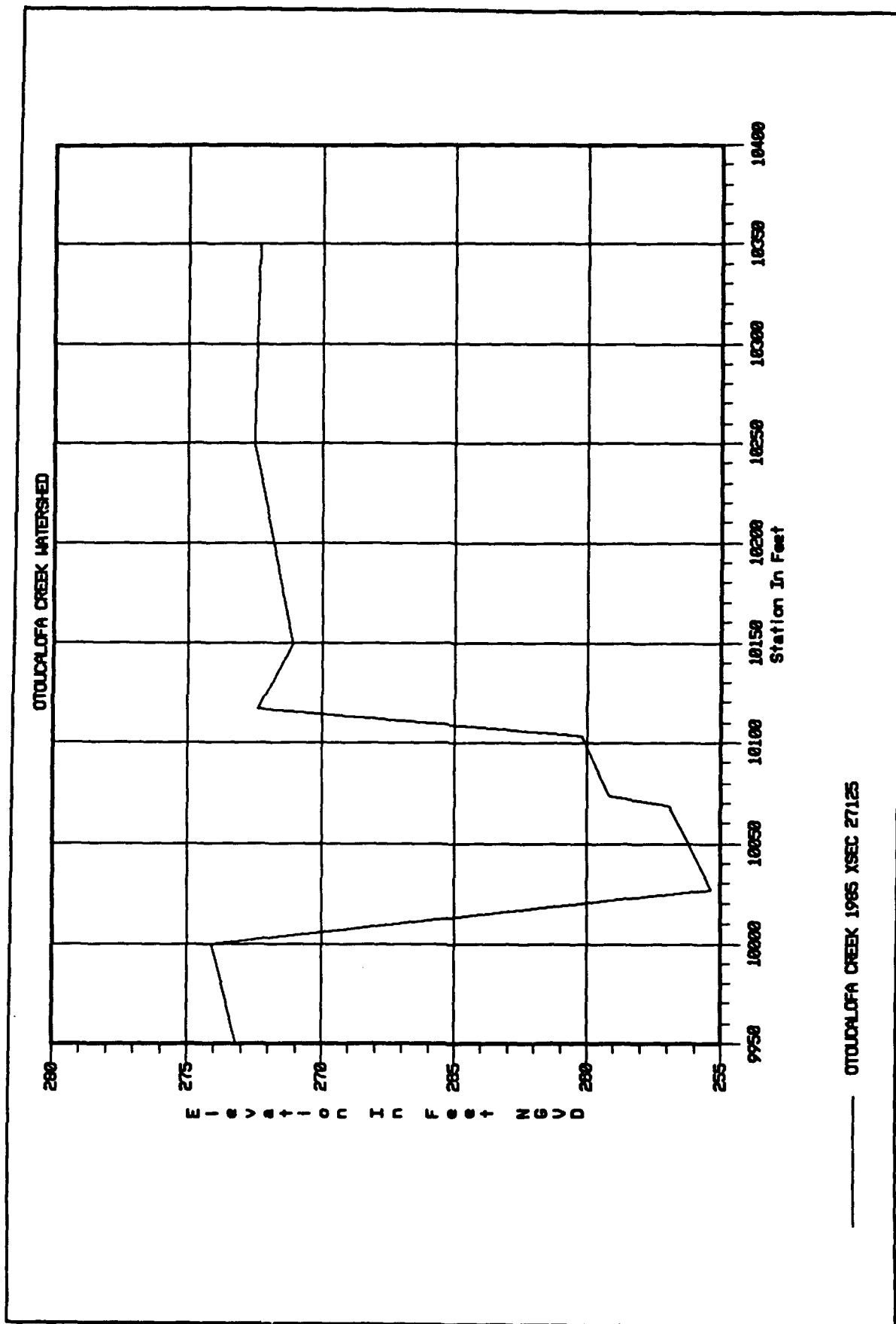


Plate C36



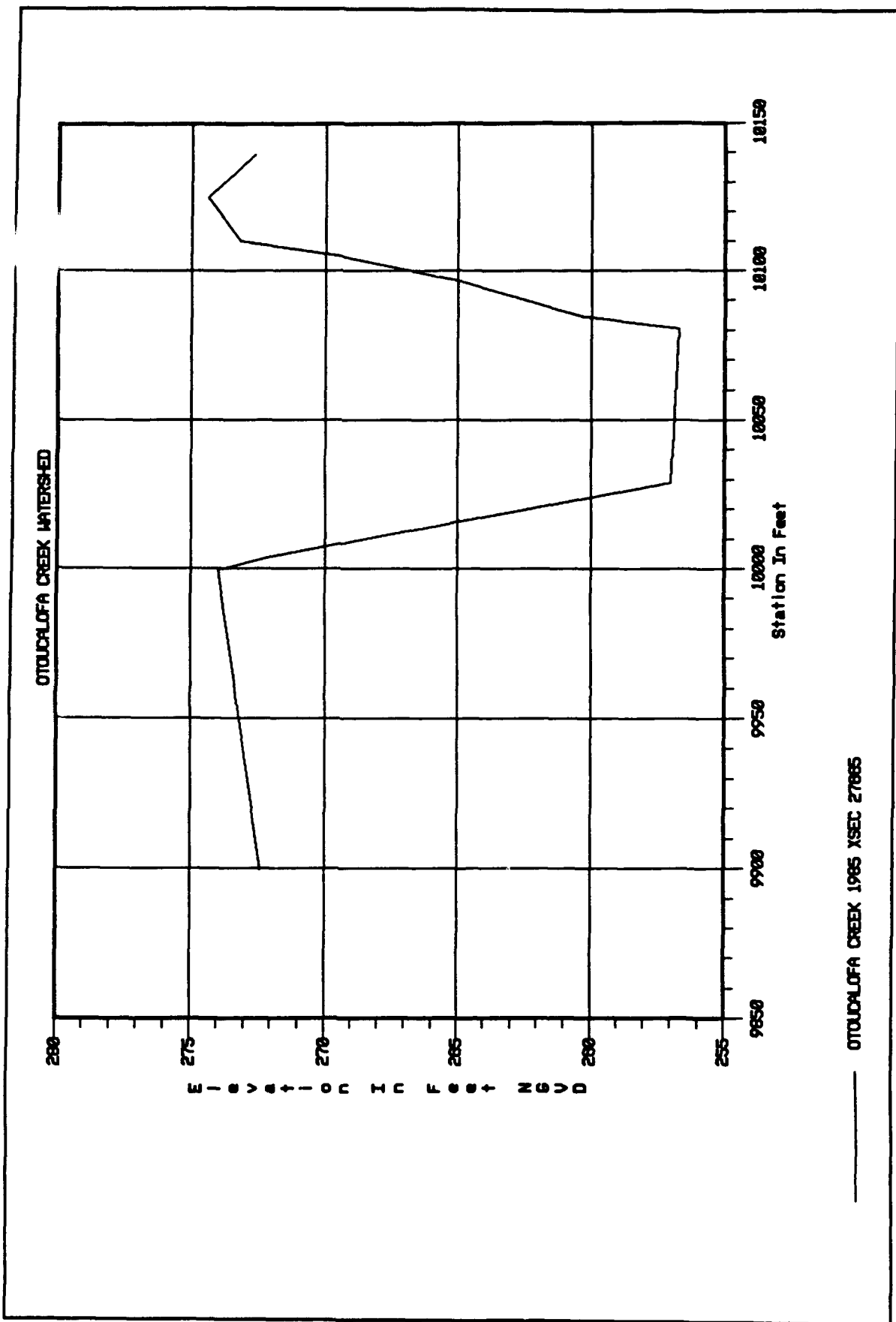
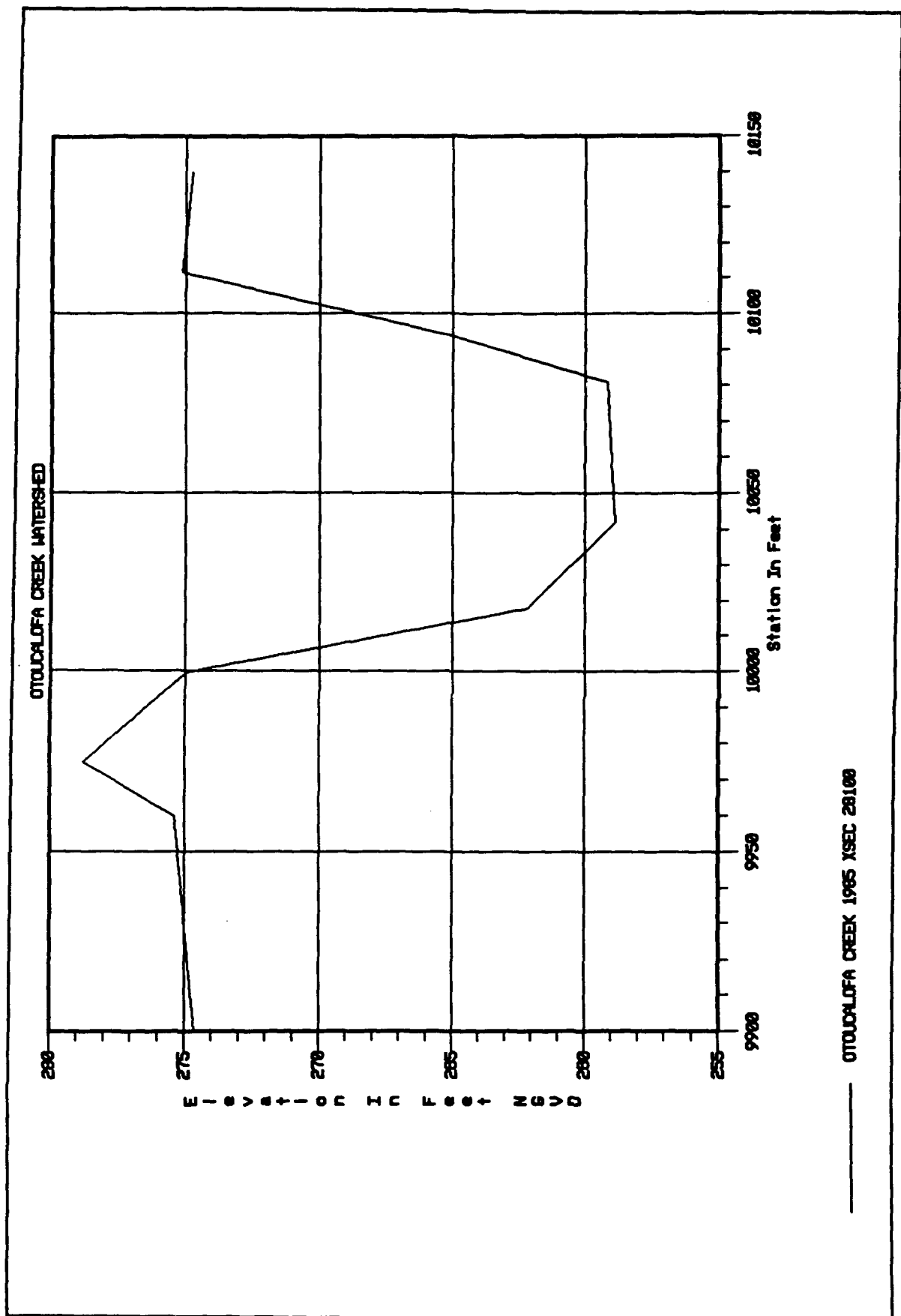


Plate C38



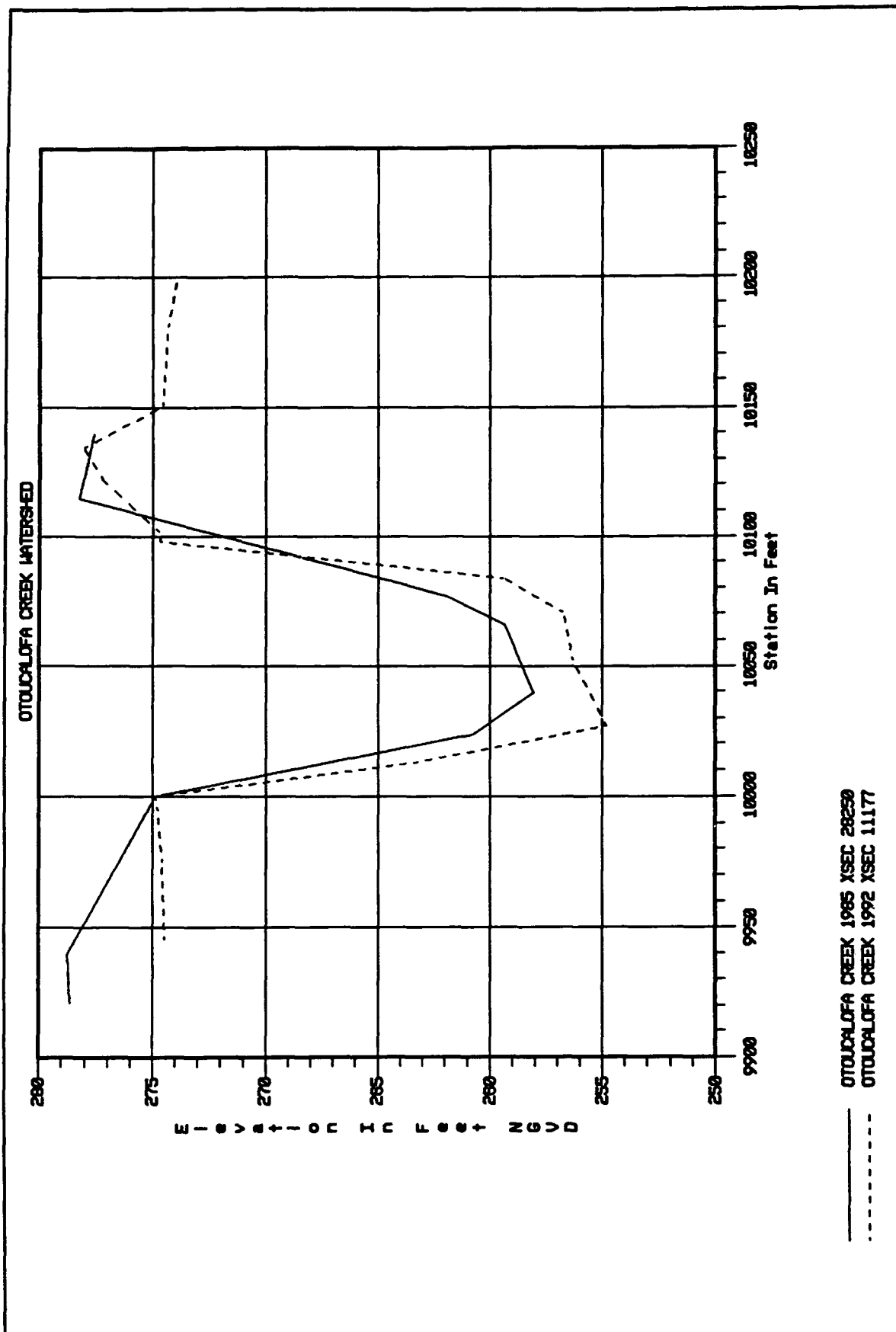
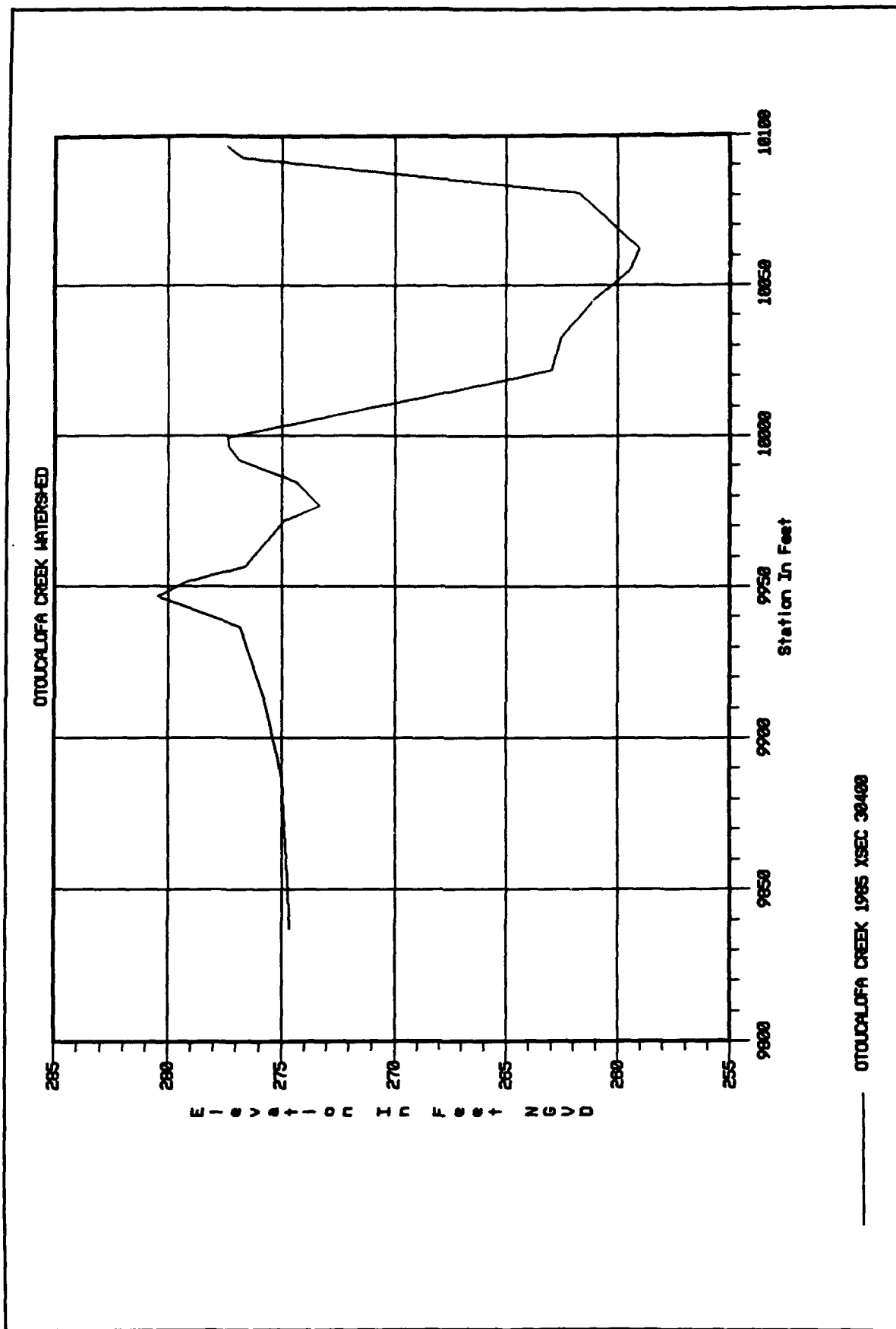
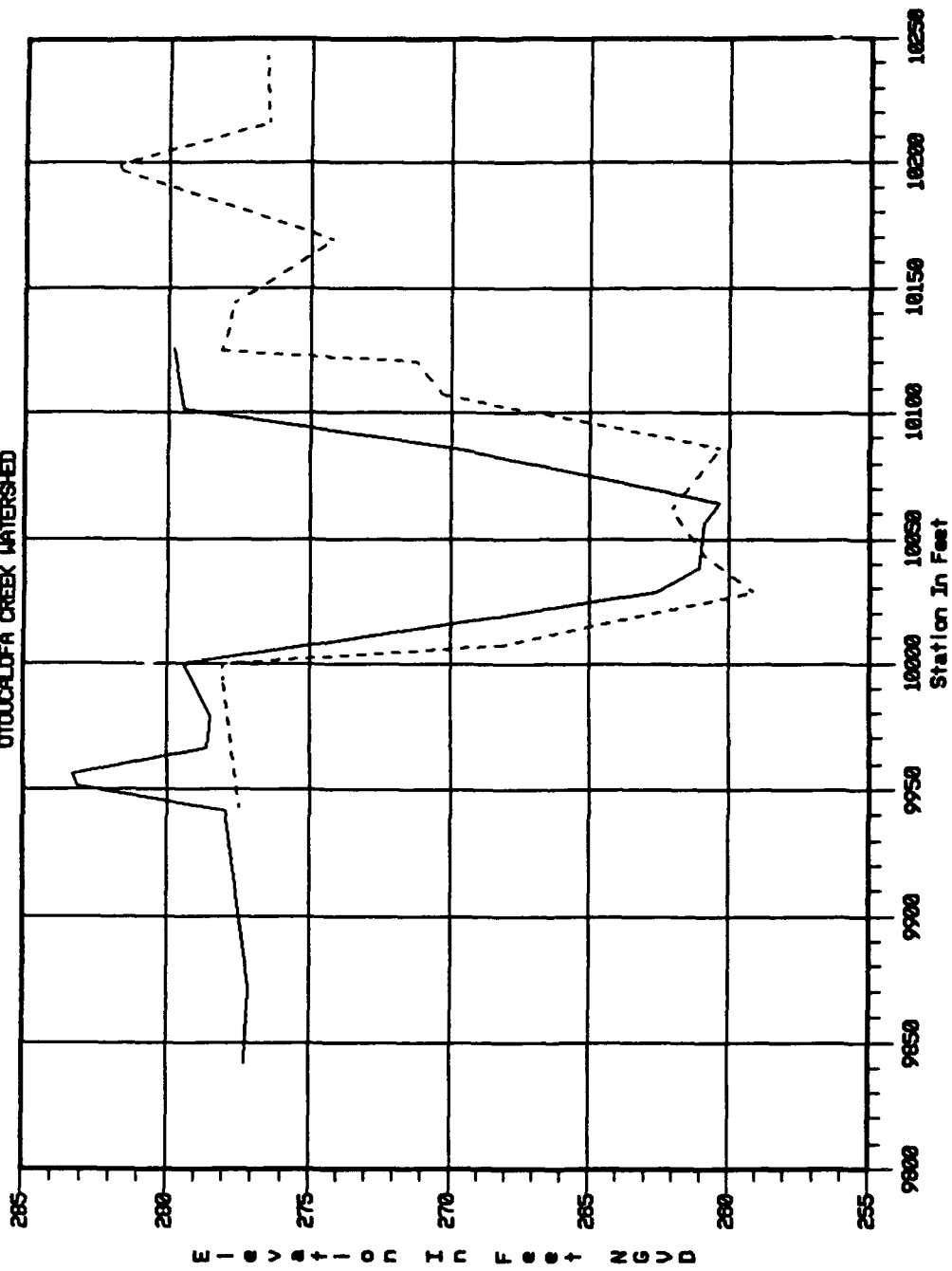


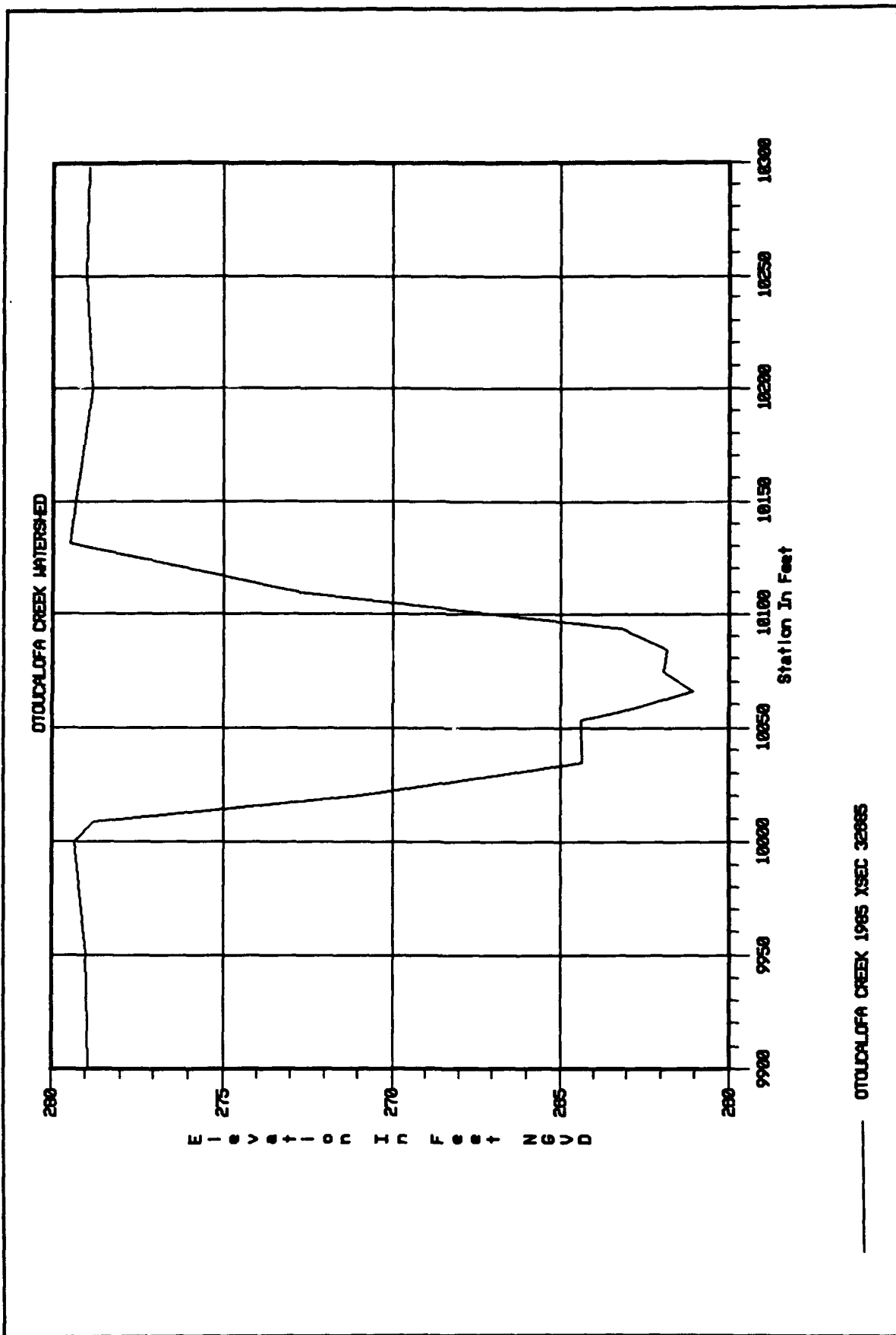
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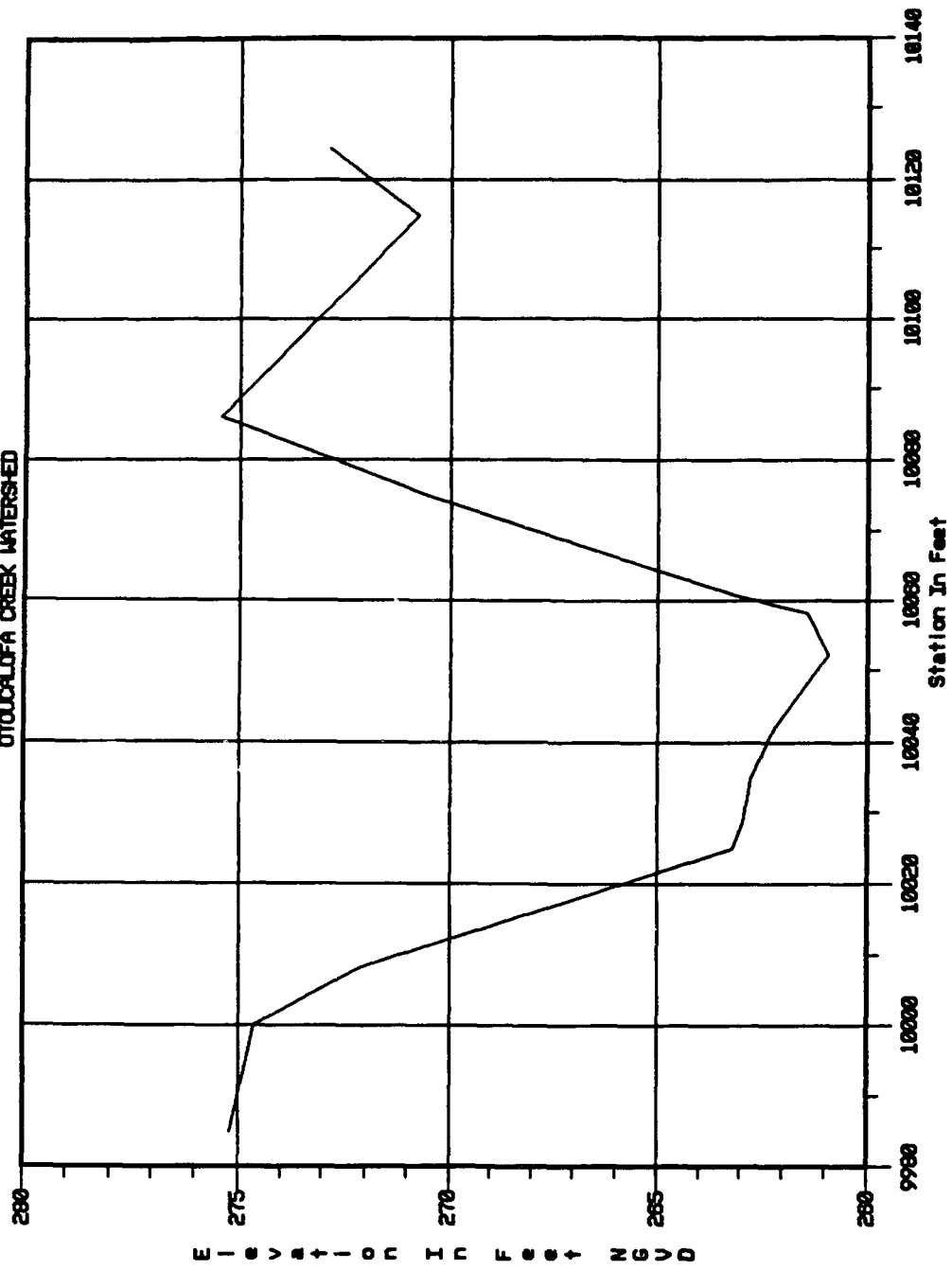
OTOLUCHLOFA CREEK WATERSHED



OTOLUCHLOFA CREEK 1985 XSEC 32250
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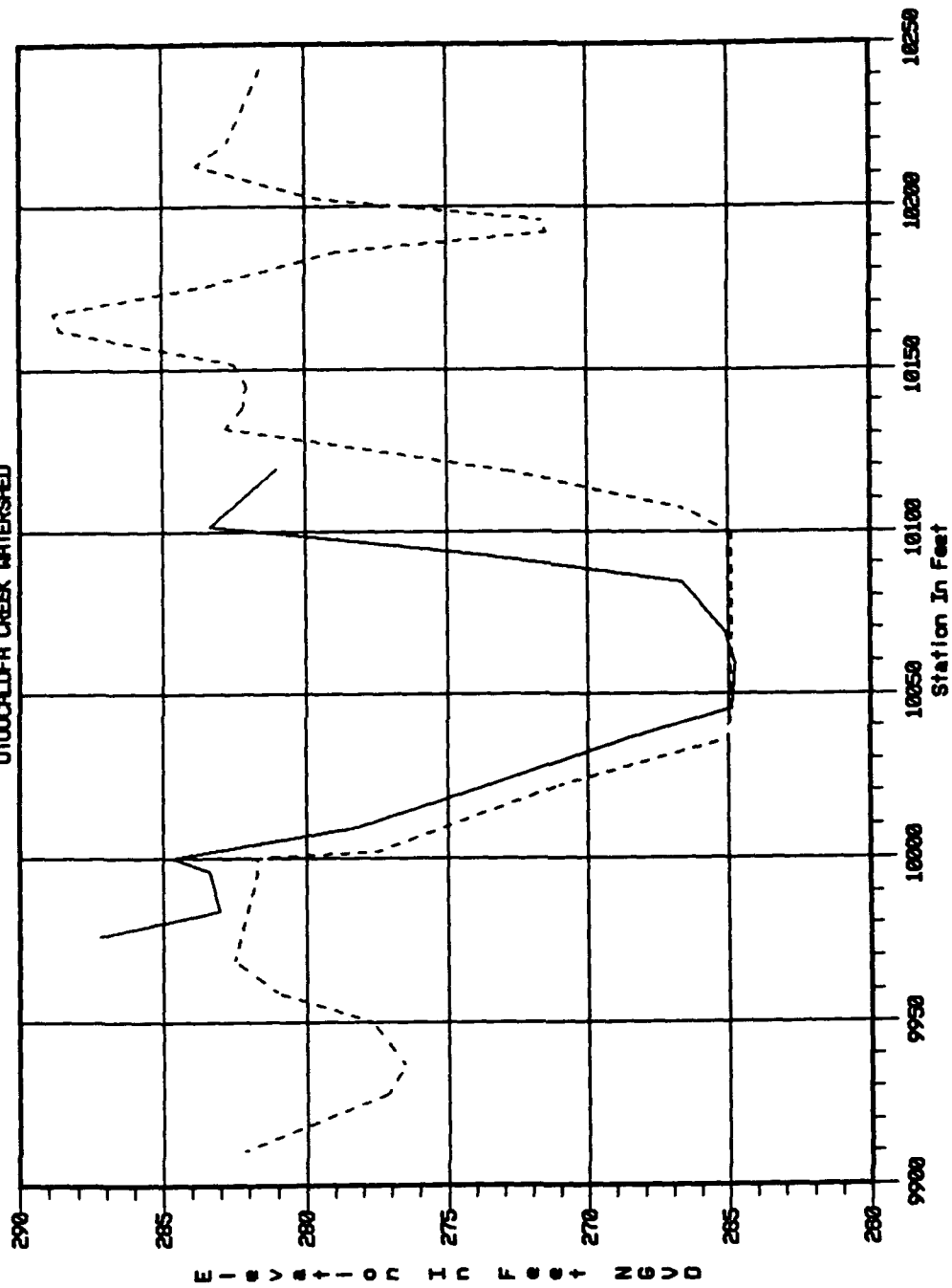


OTOJUALOFA CREEK WATERSHED



OTOJUALOFA CREEK 1985 \ SEC 33800

OTTOLOALOFA CREEK WATERSHED



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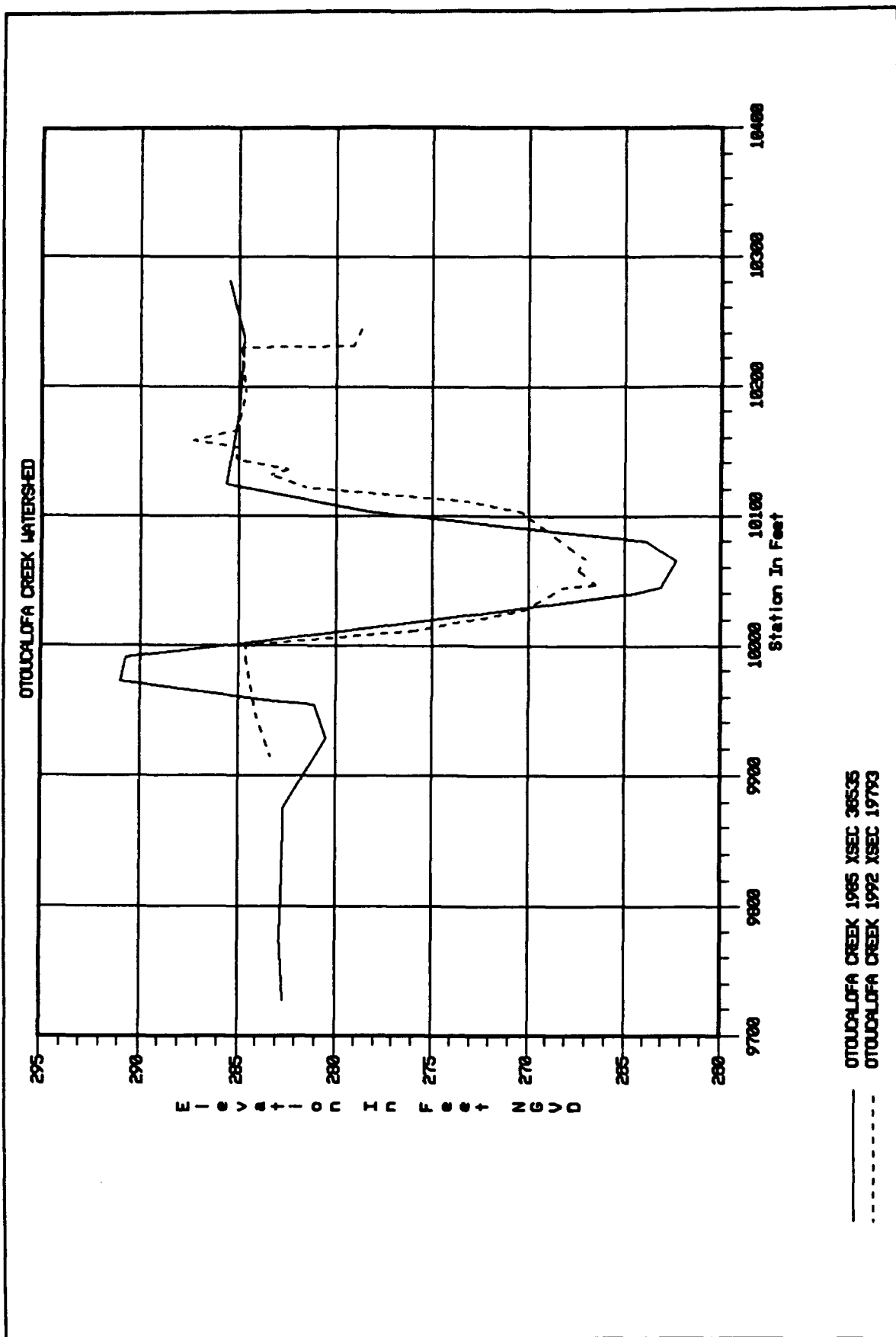
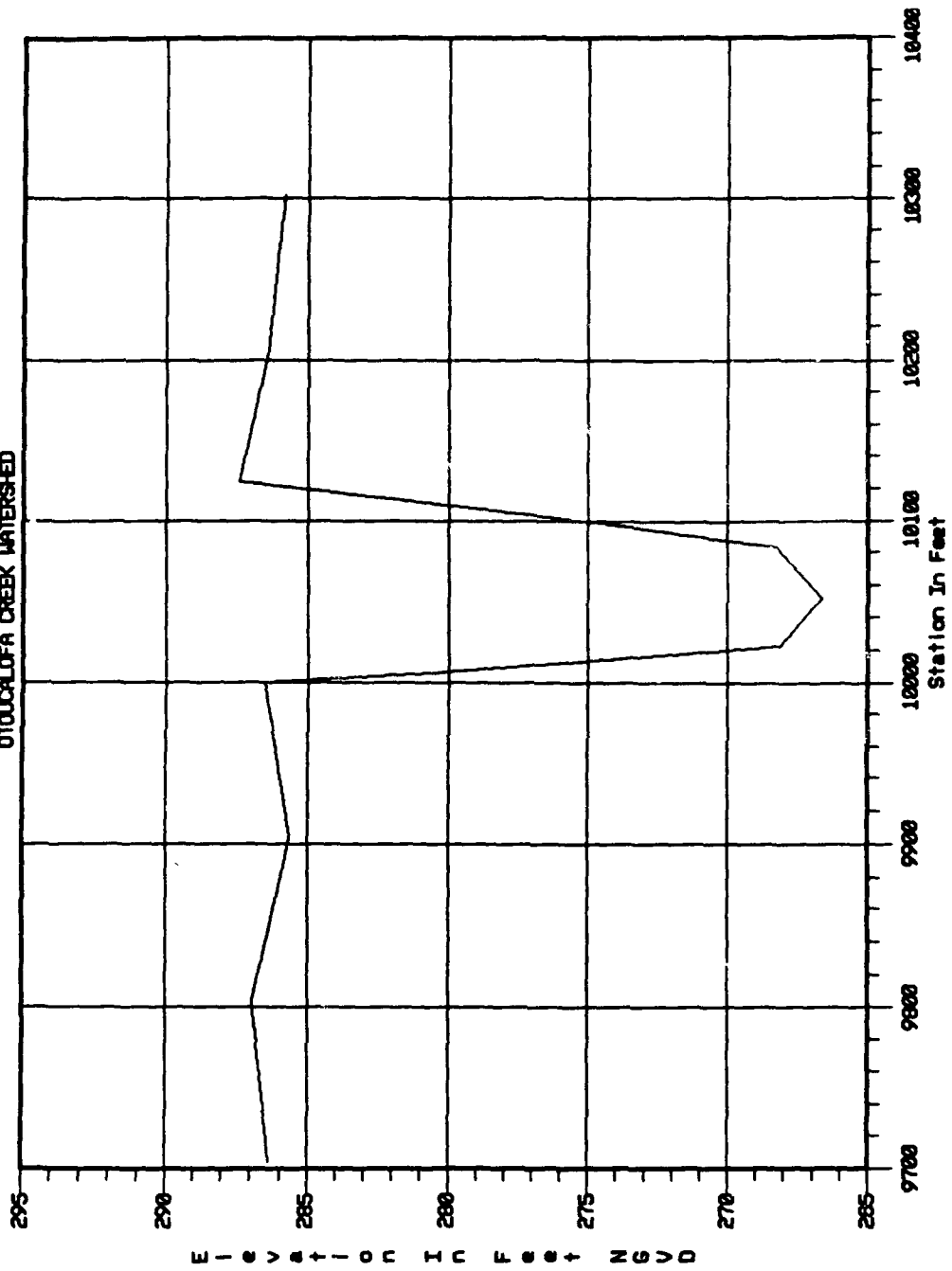
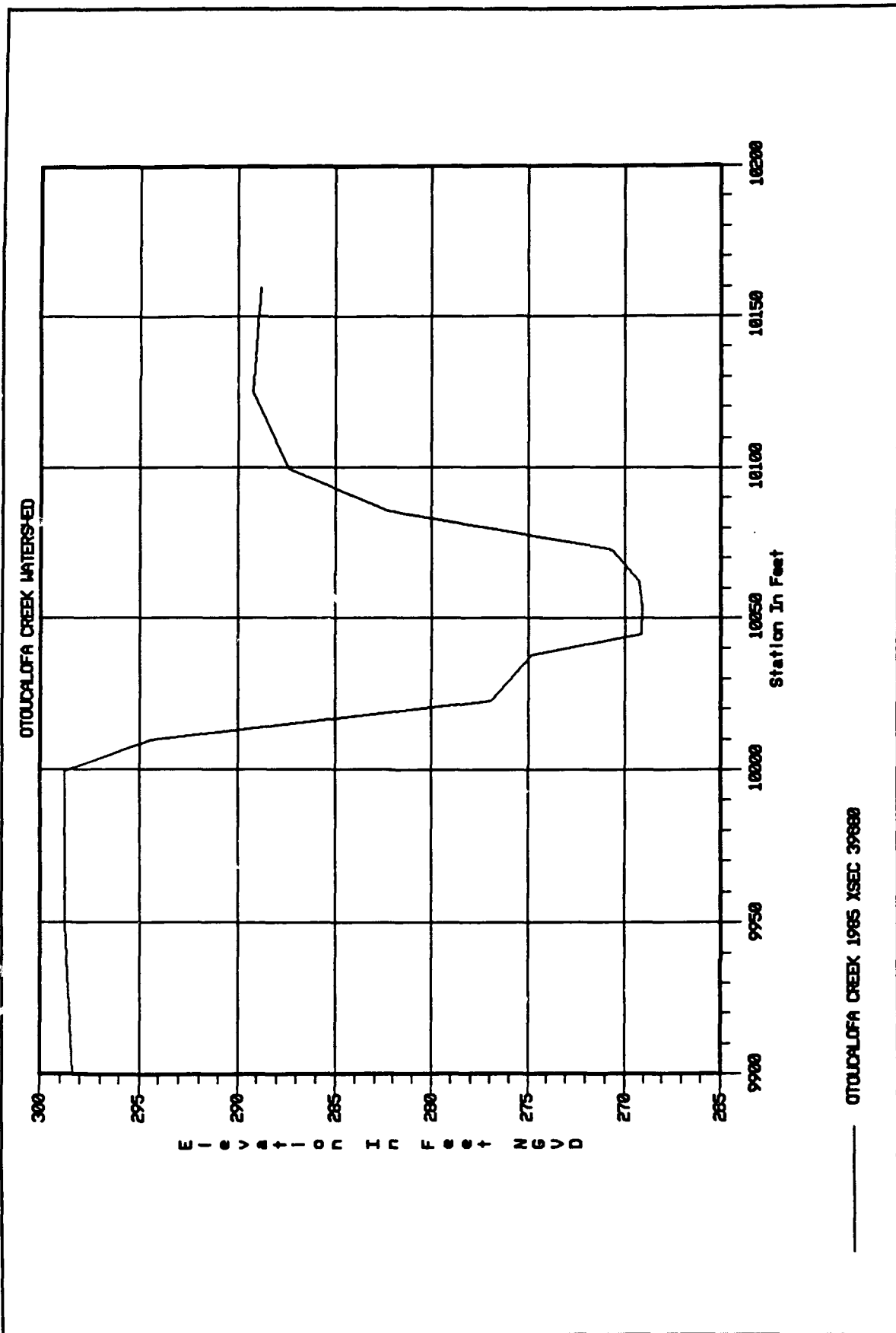


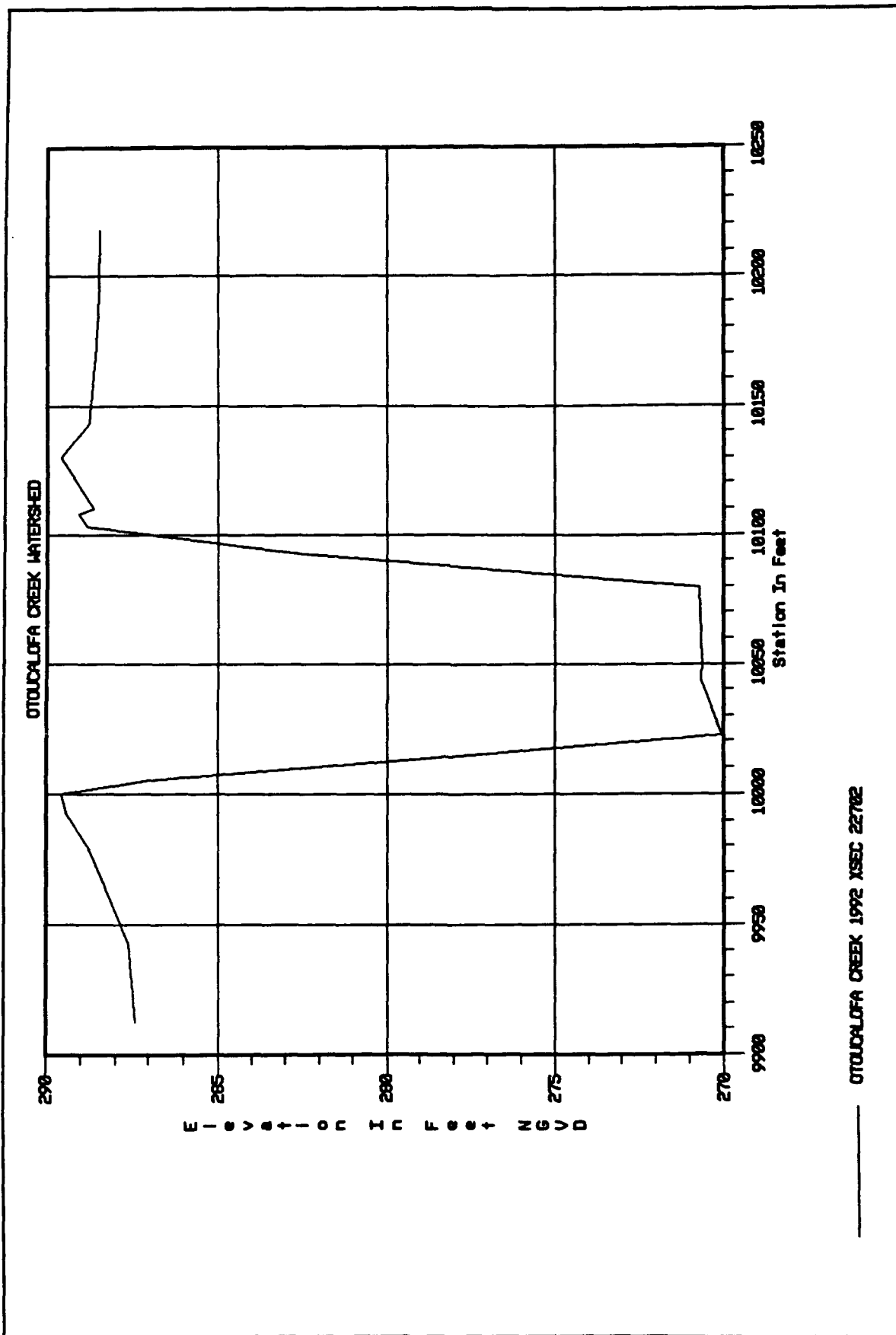
Plate C46

OTOLUALOFA CREEK WATERSHED



OTOLUALOFA CREEK 1985 XSEC 38315





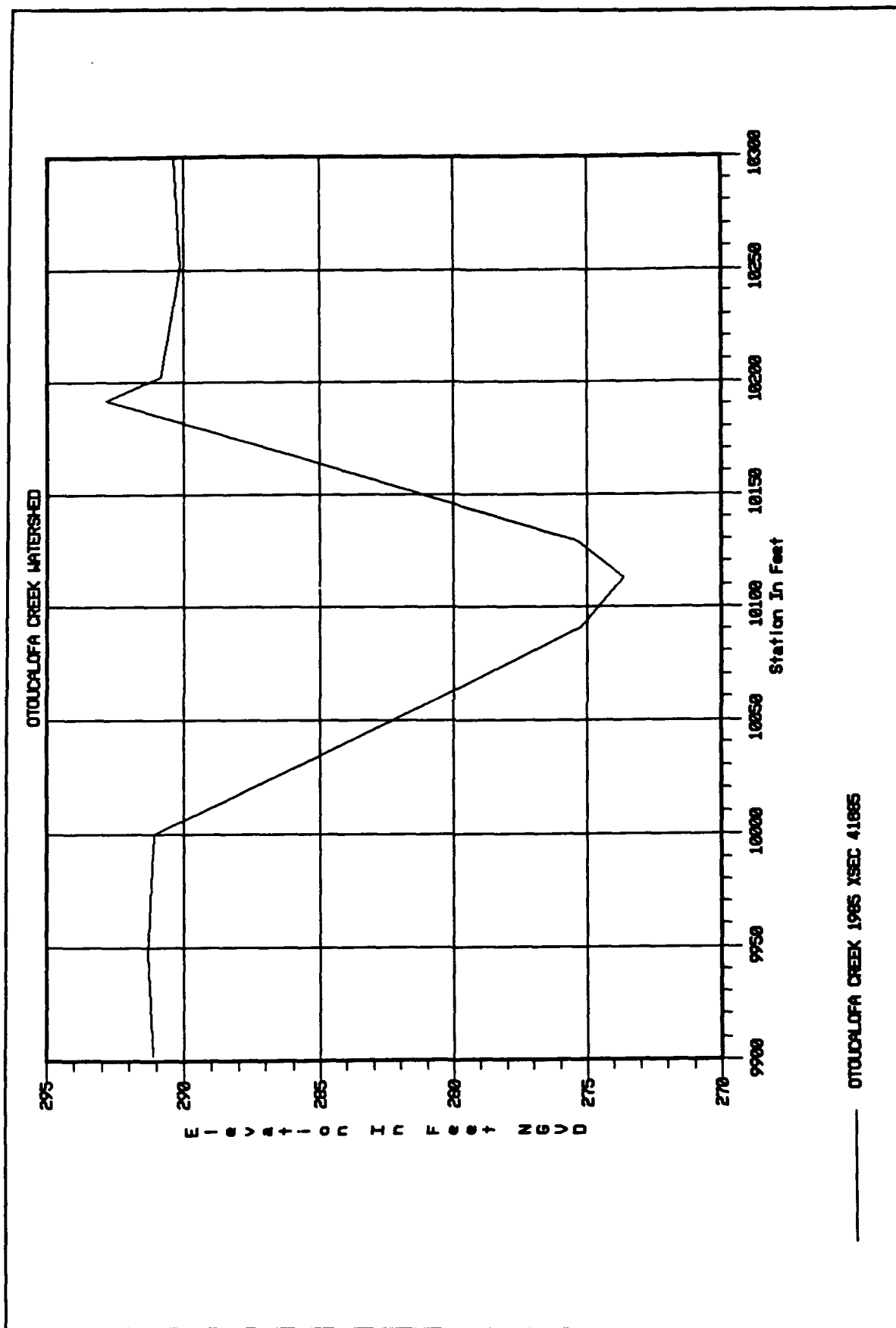
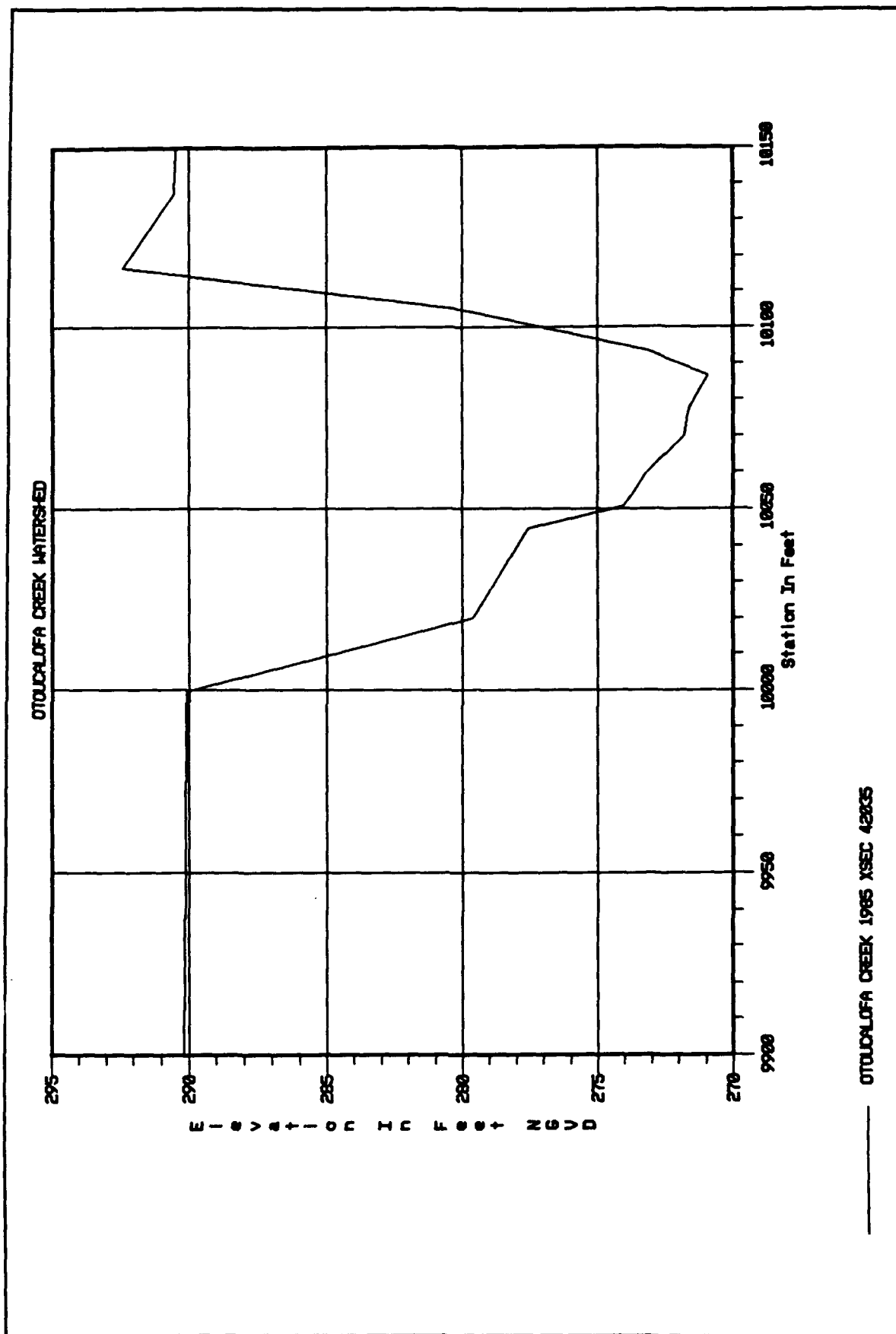


Plate C50



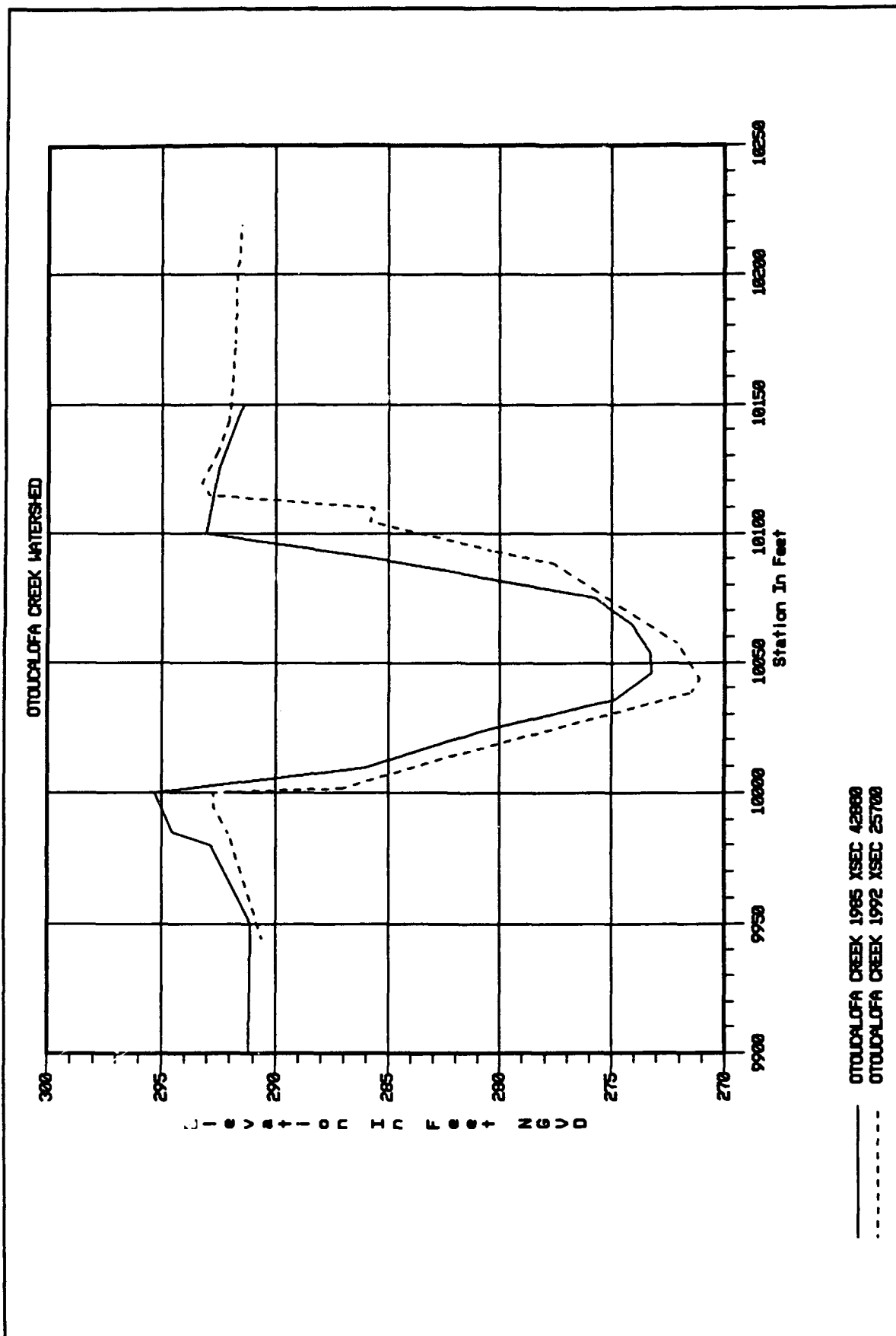
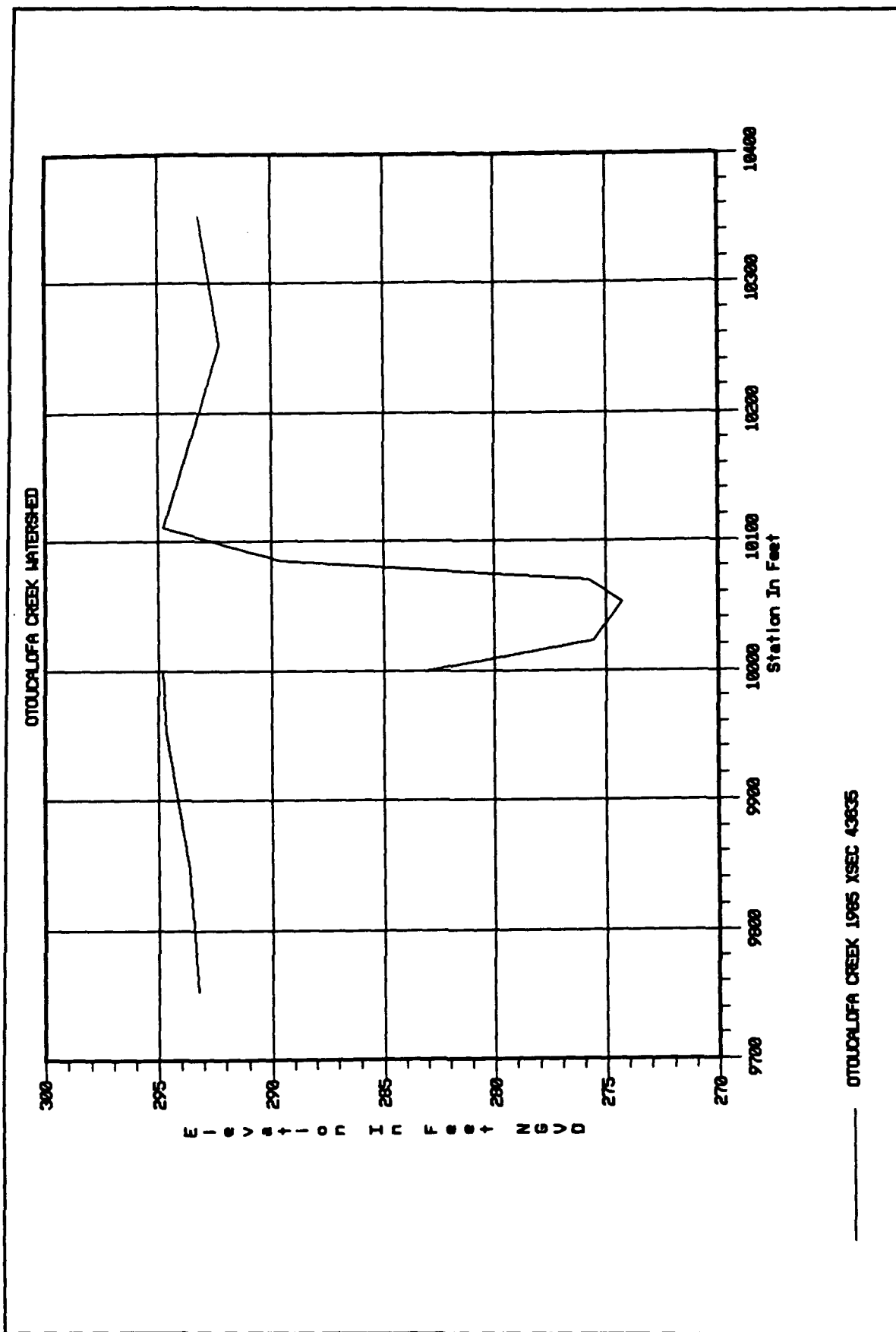


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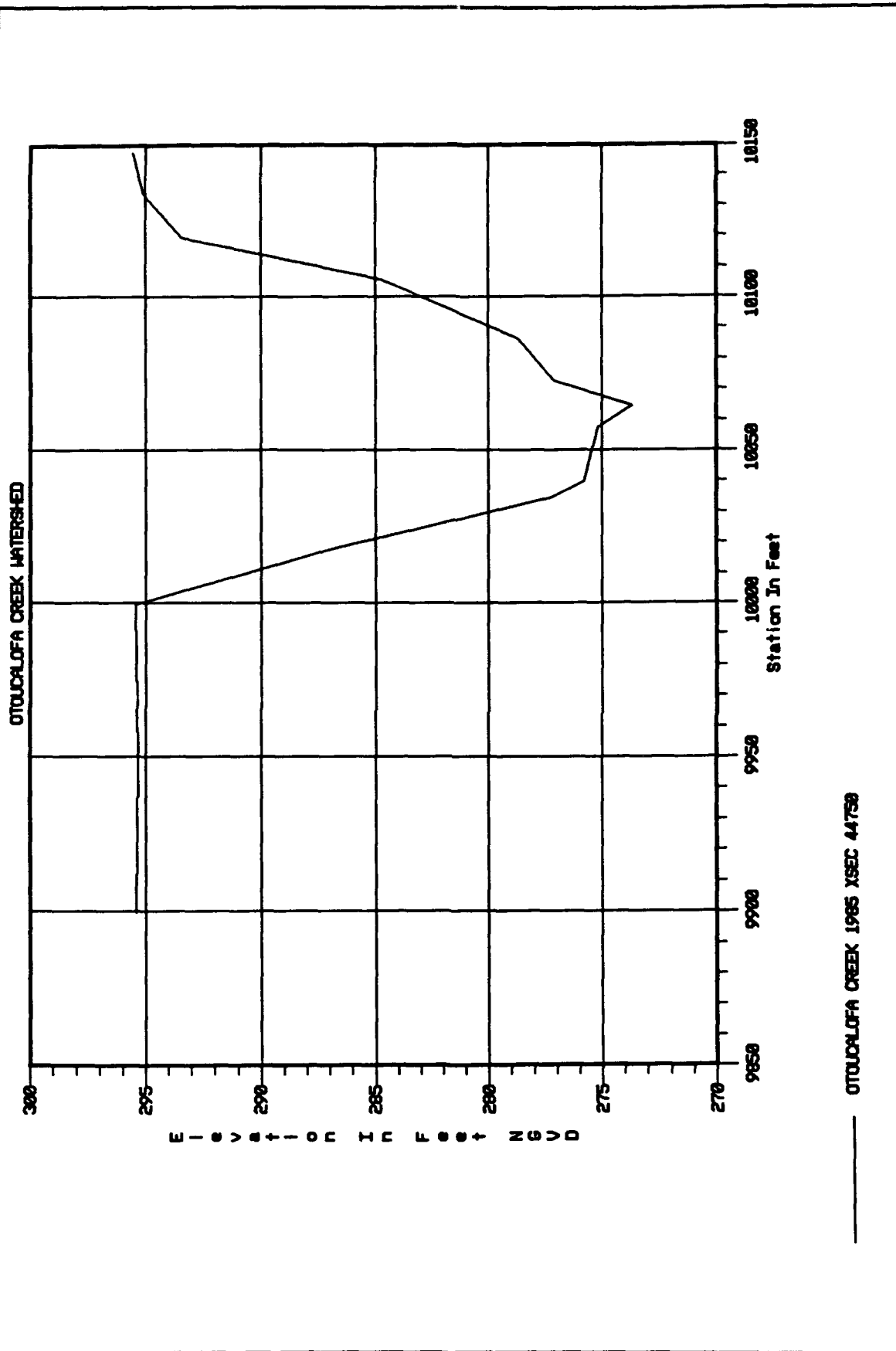
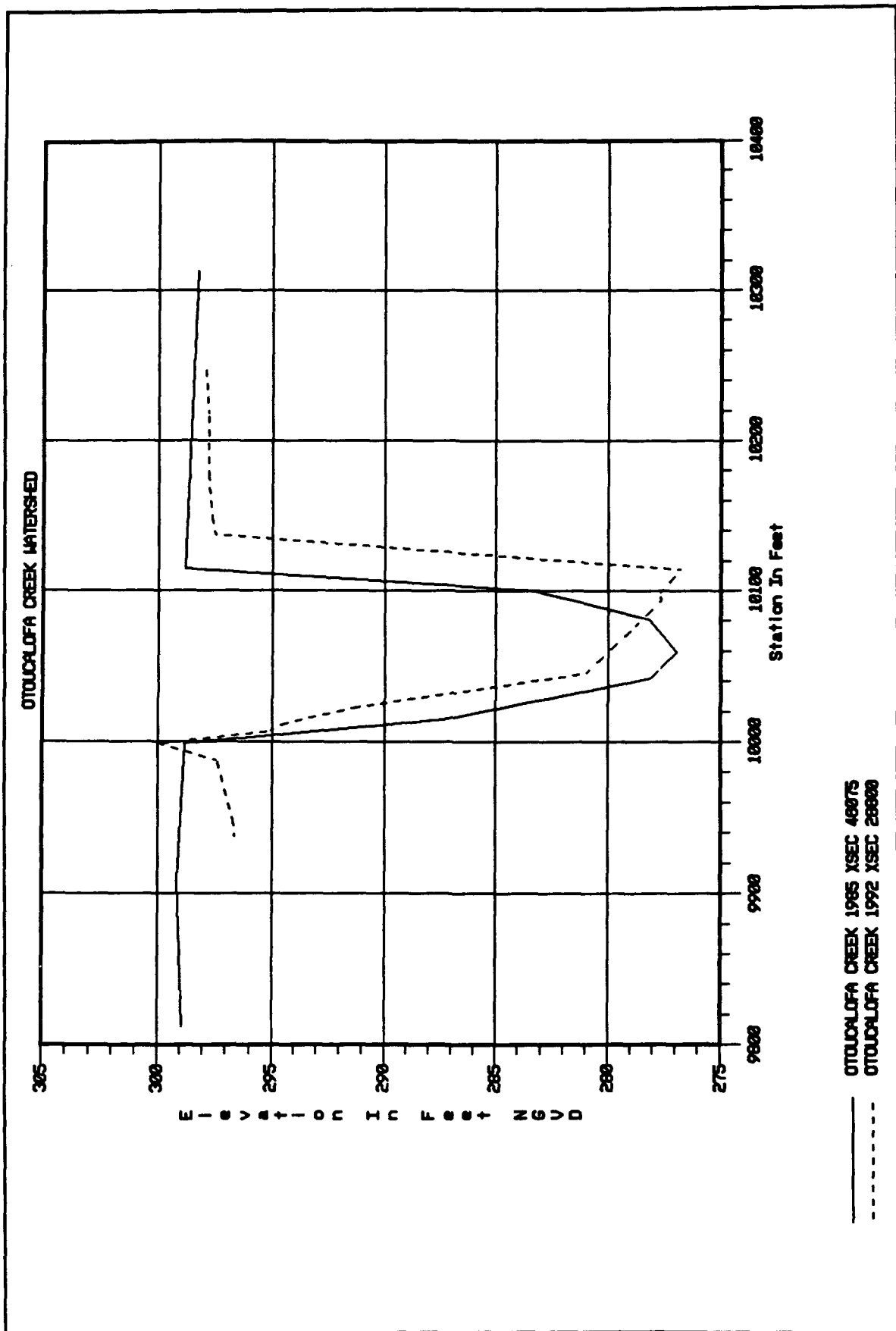


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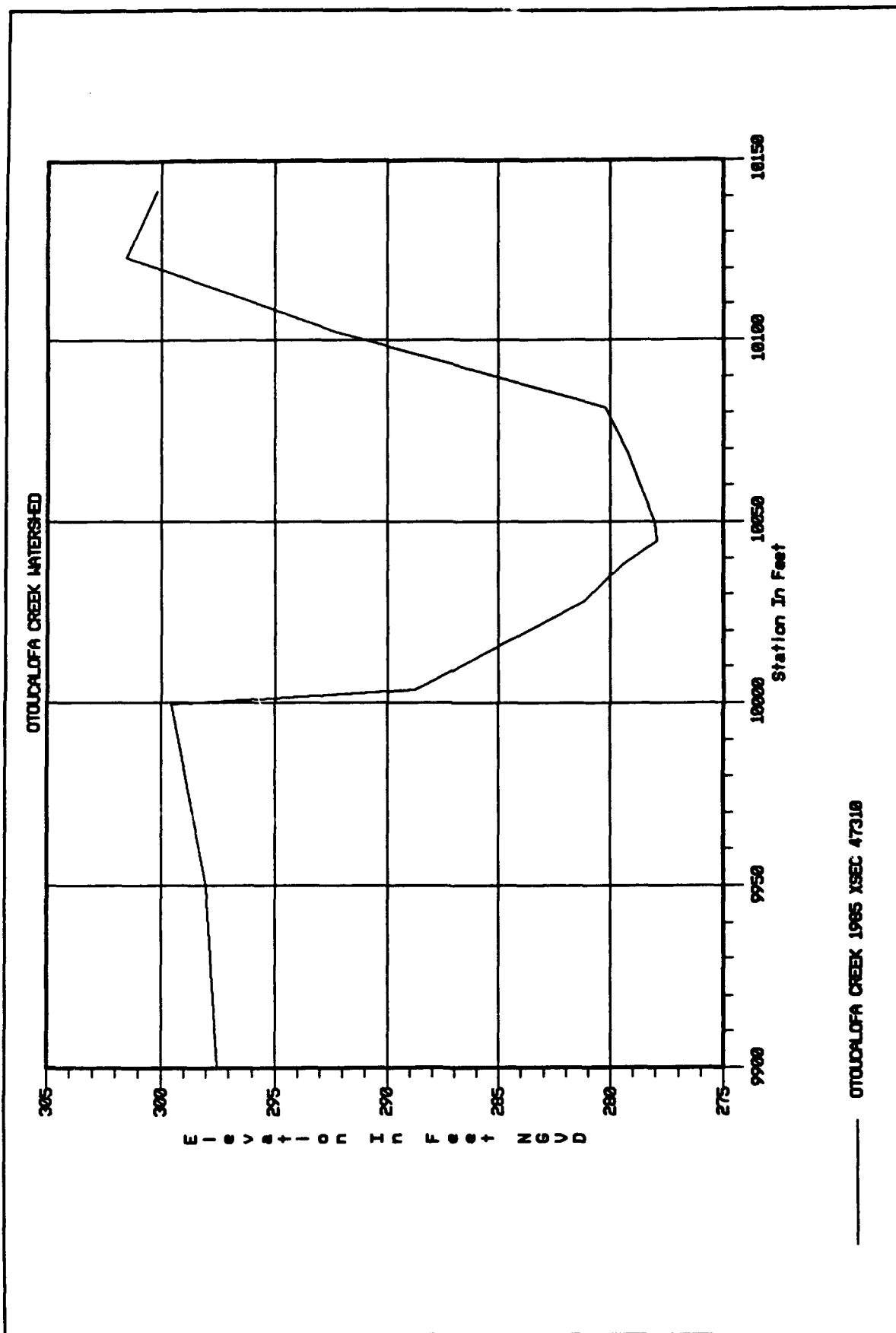
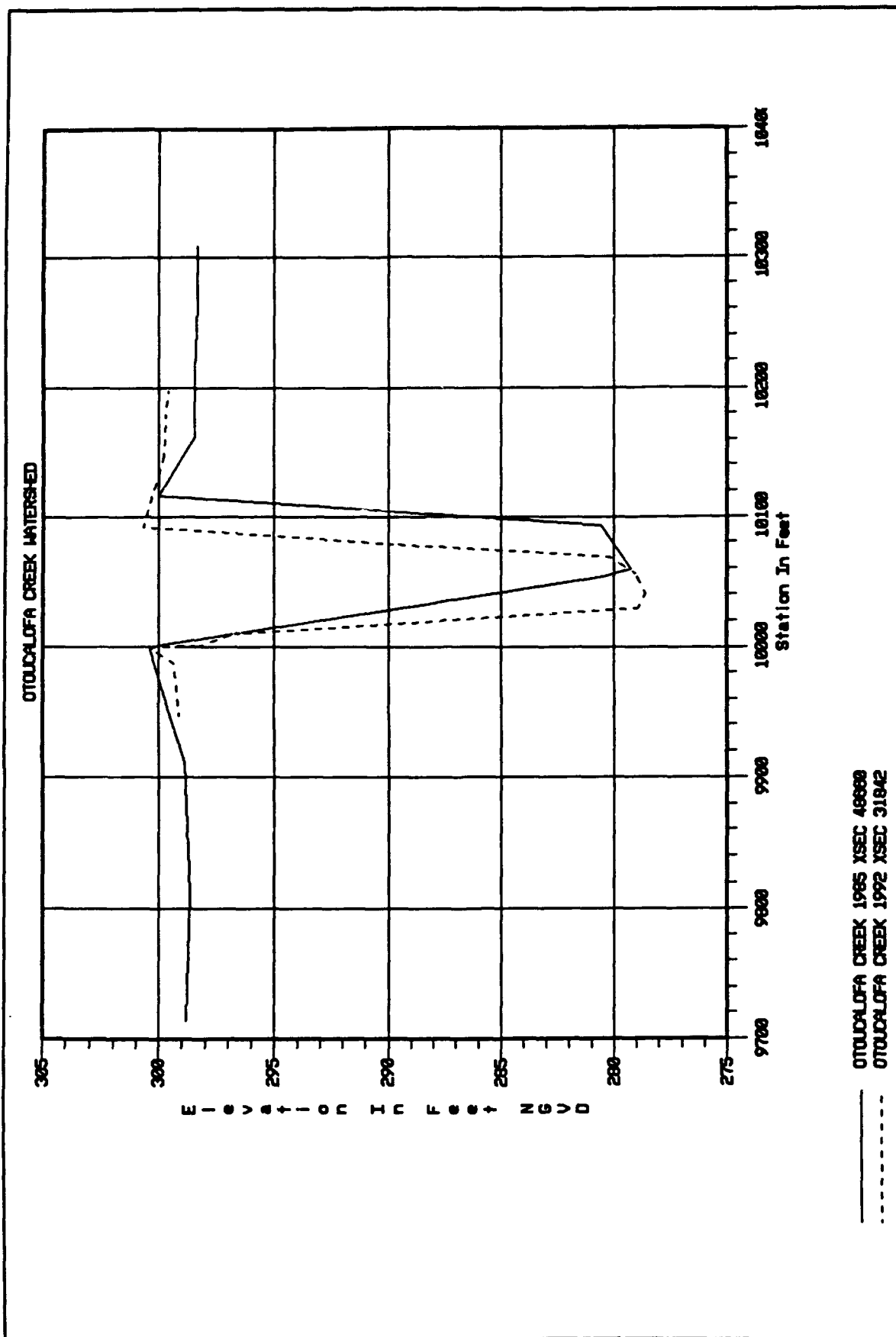


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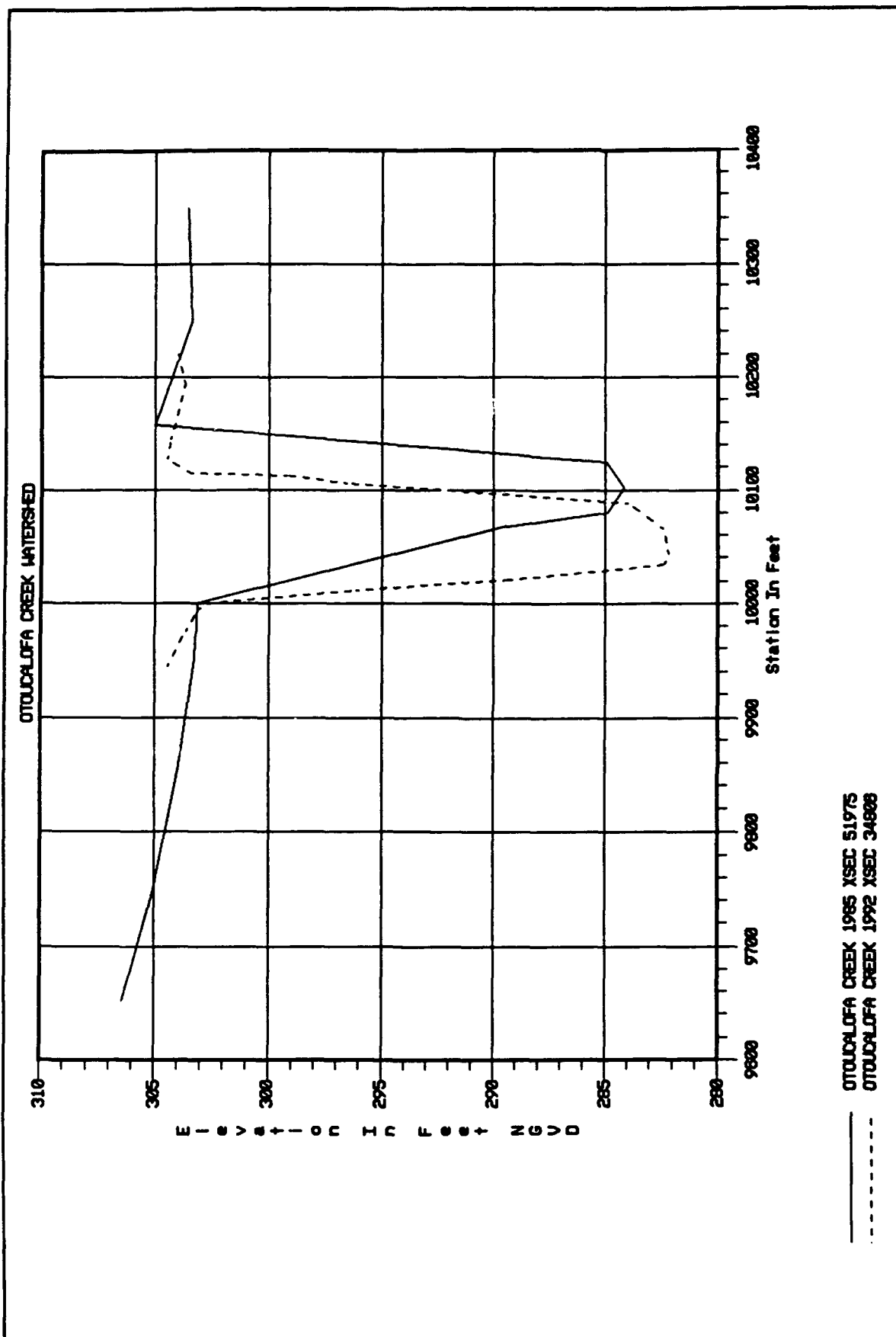
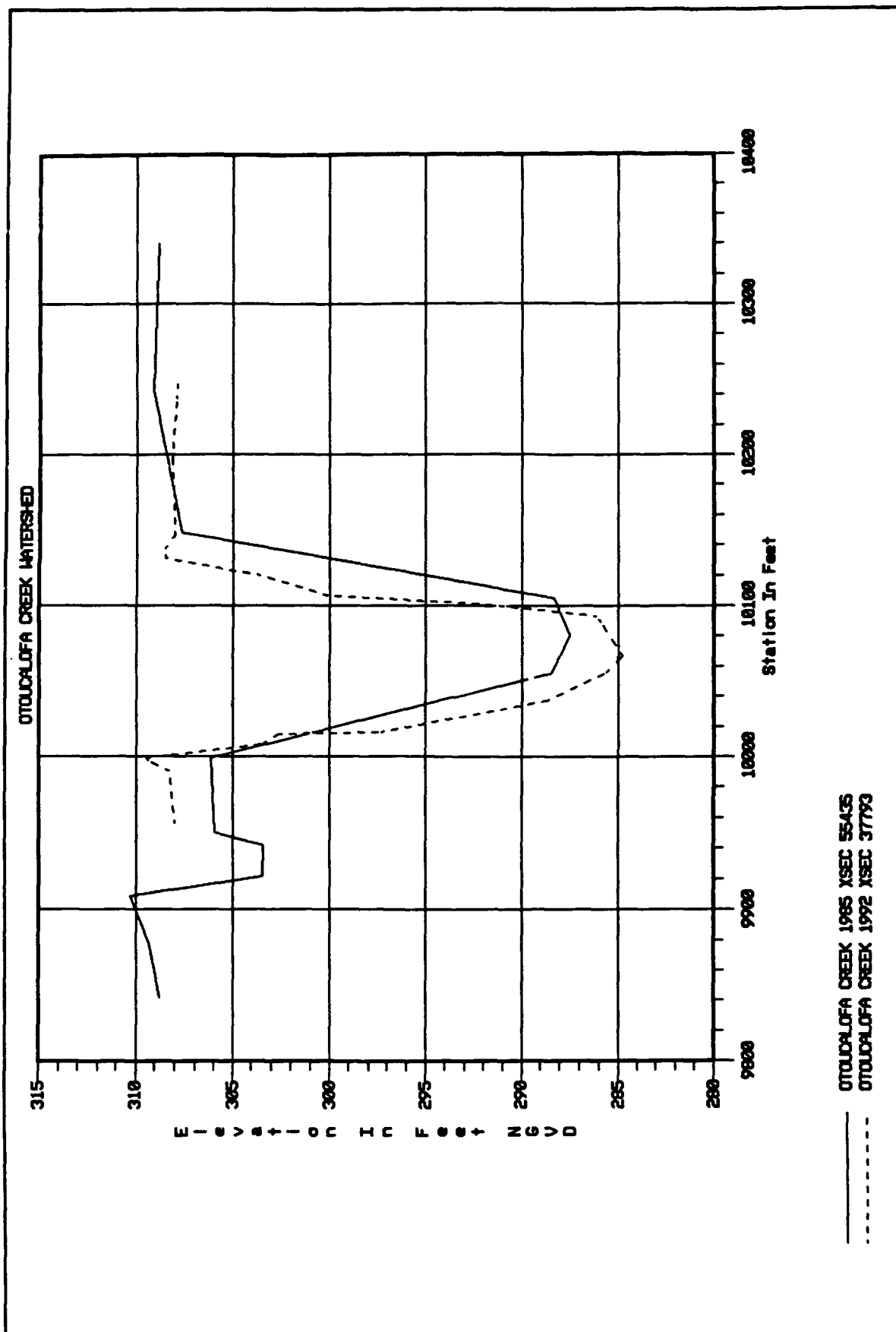


Plate C58



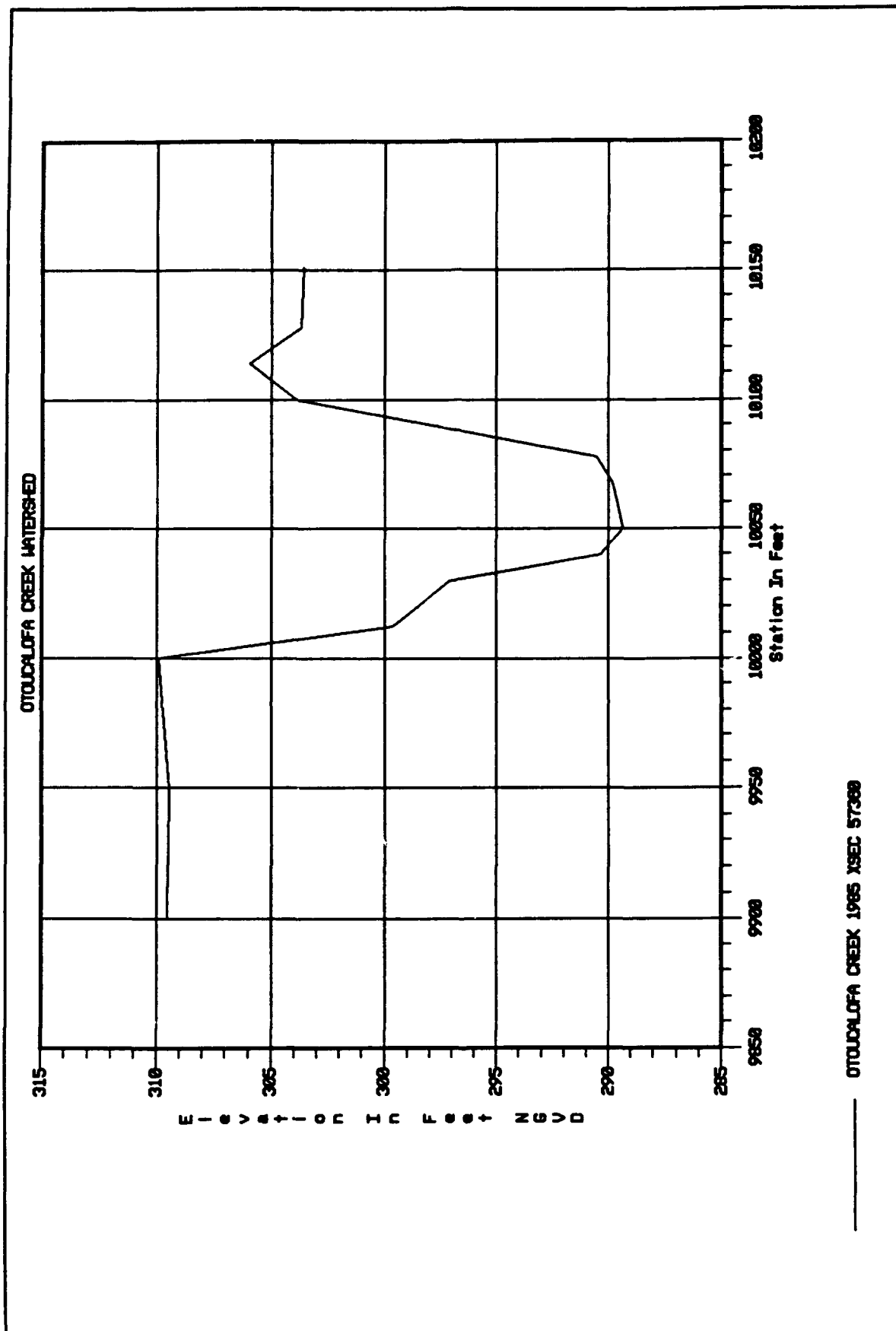
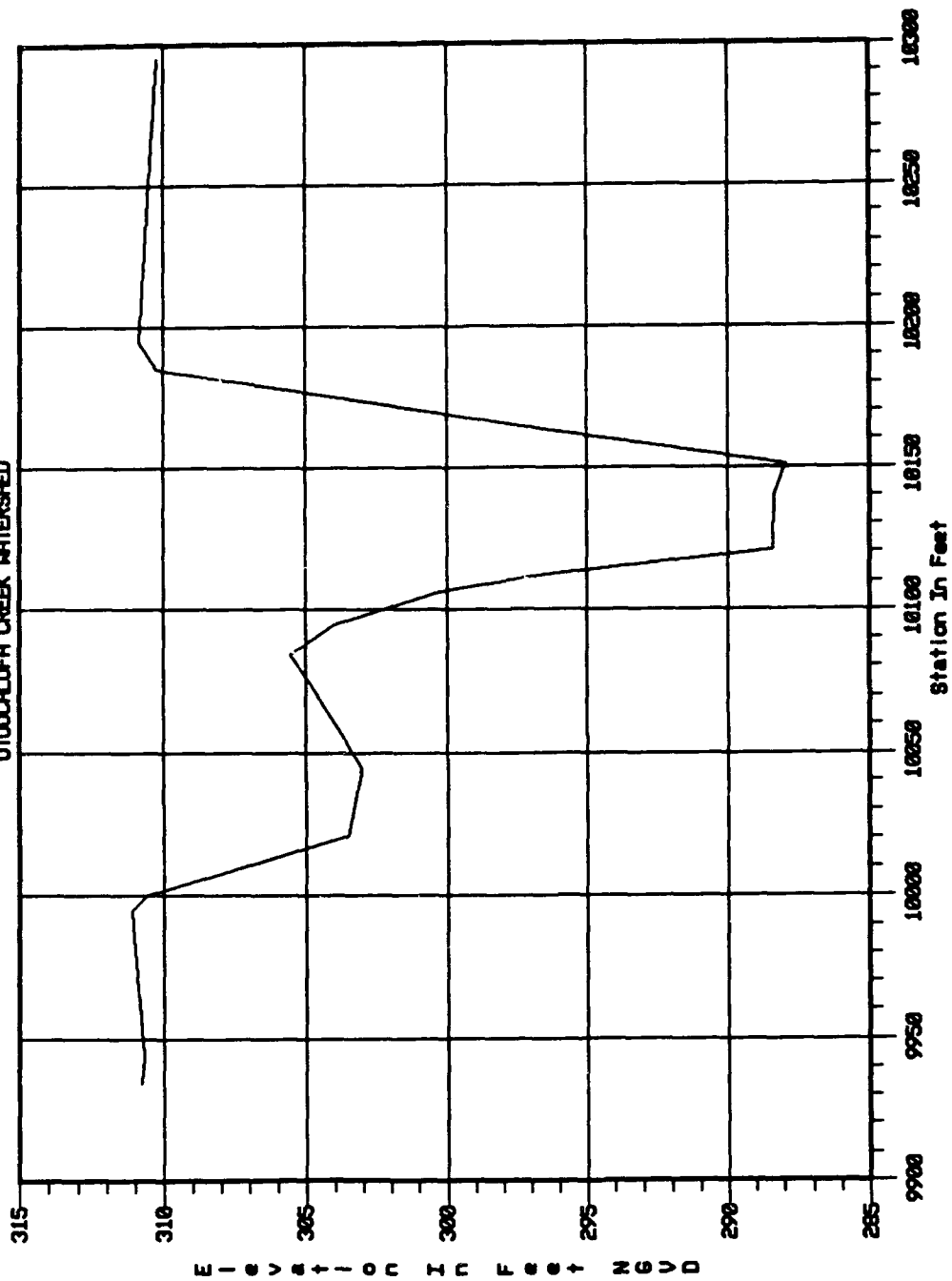


Plate C60

OTJUALOFA CREEK WATERSHED



OTJUALOFA CREEK 1992 XSEC 40788

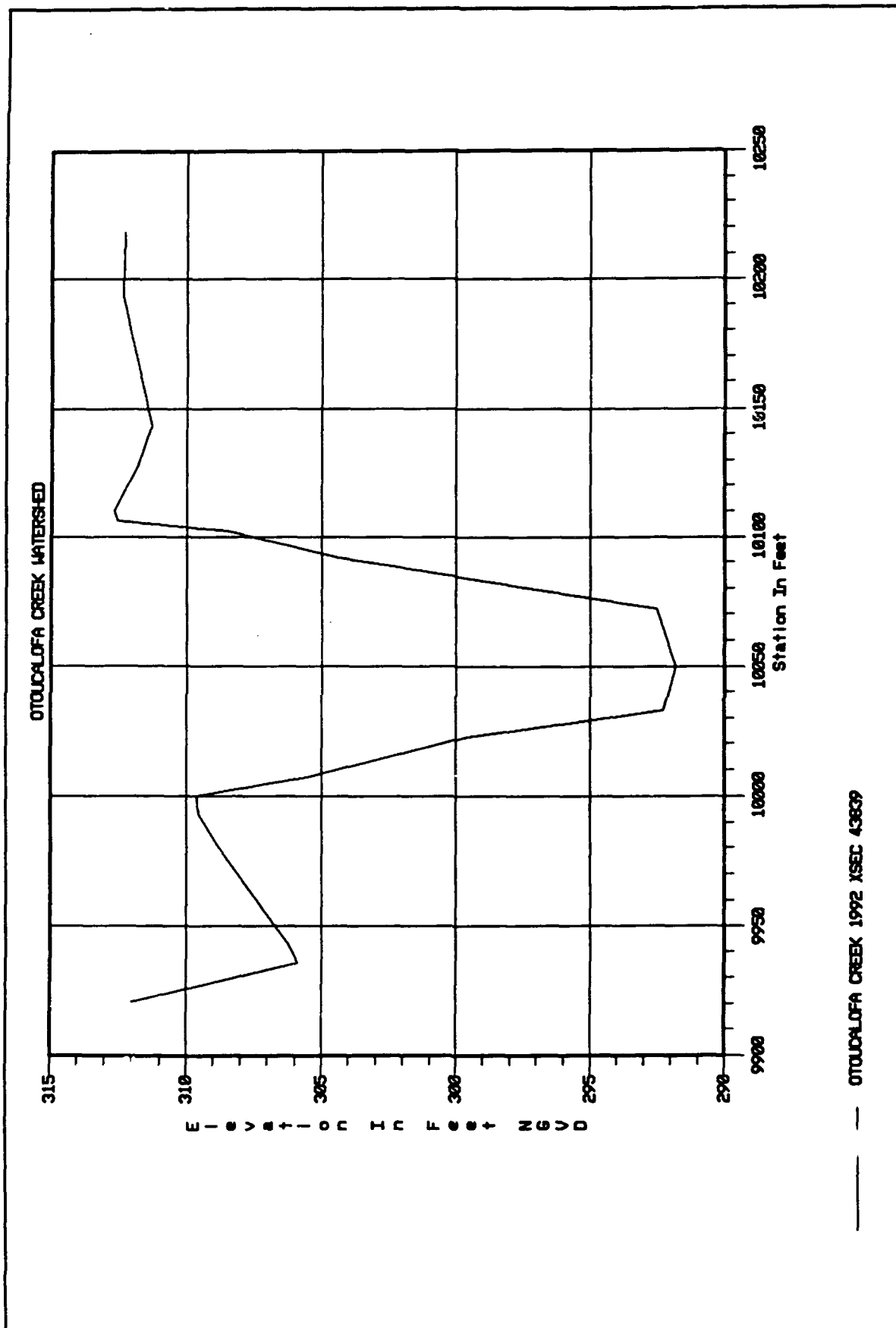


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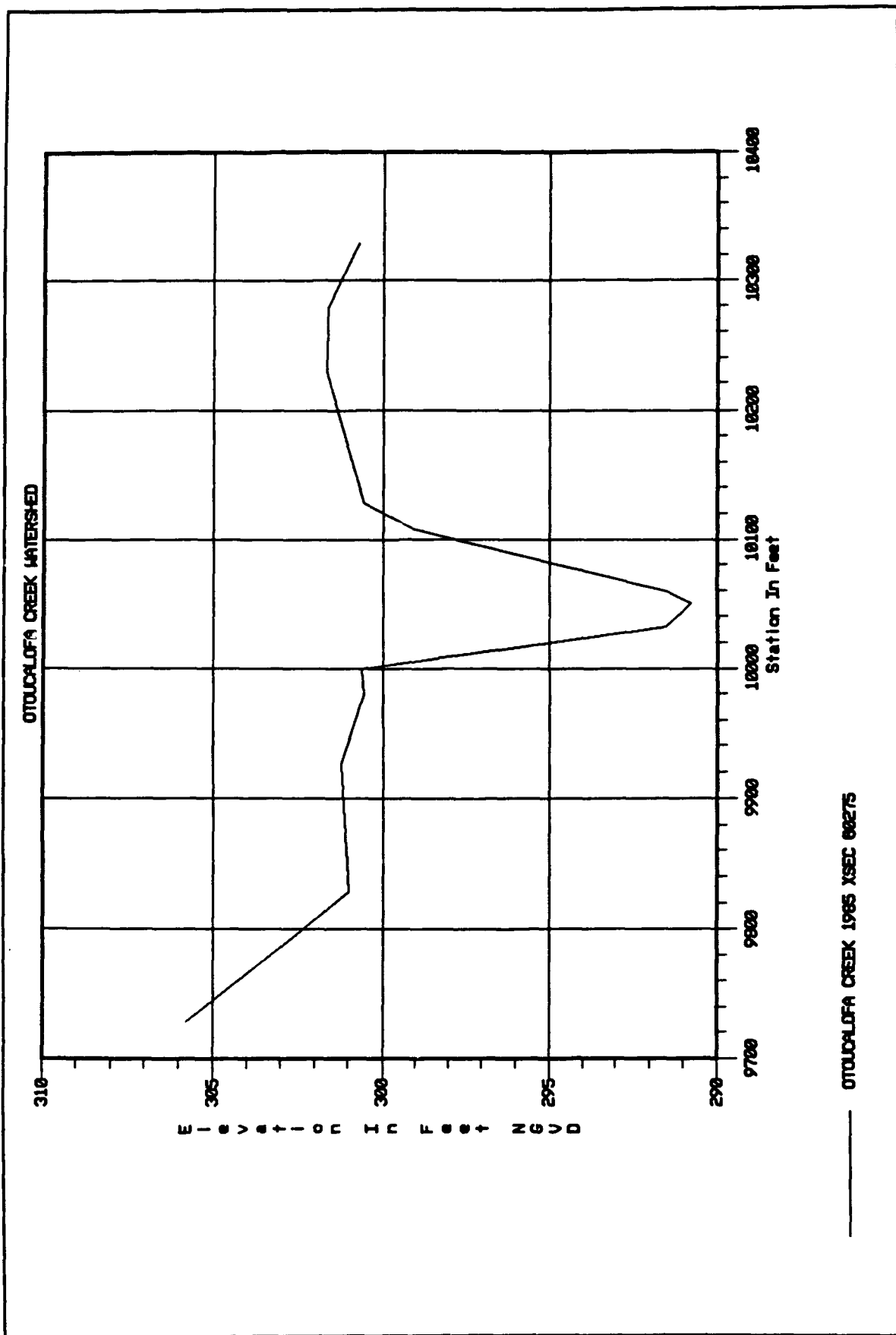


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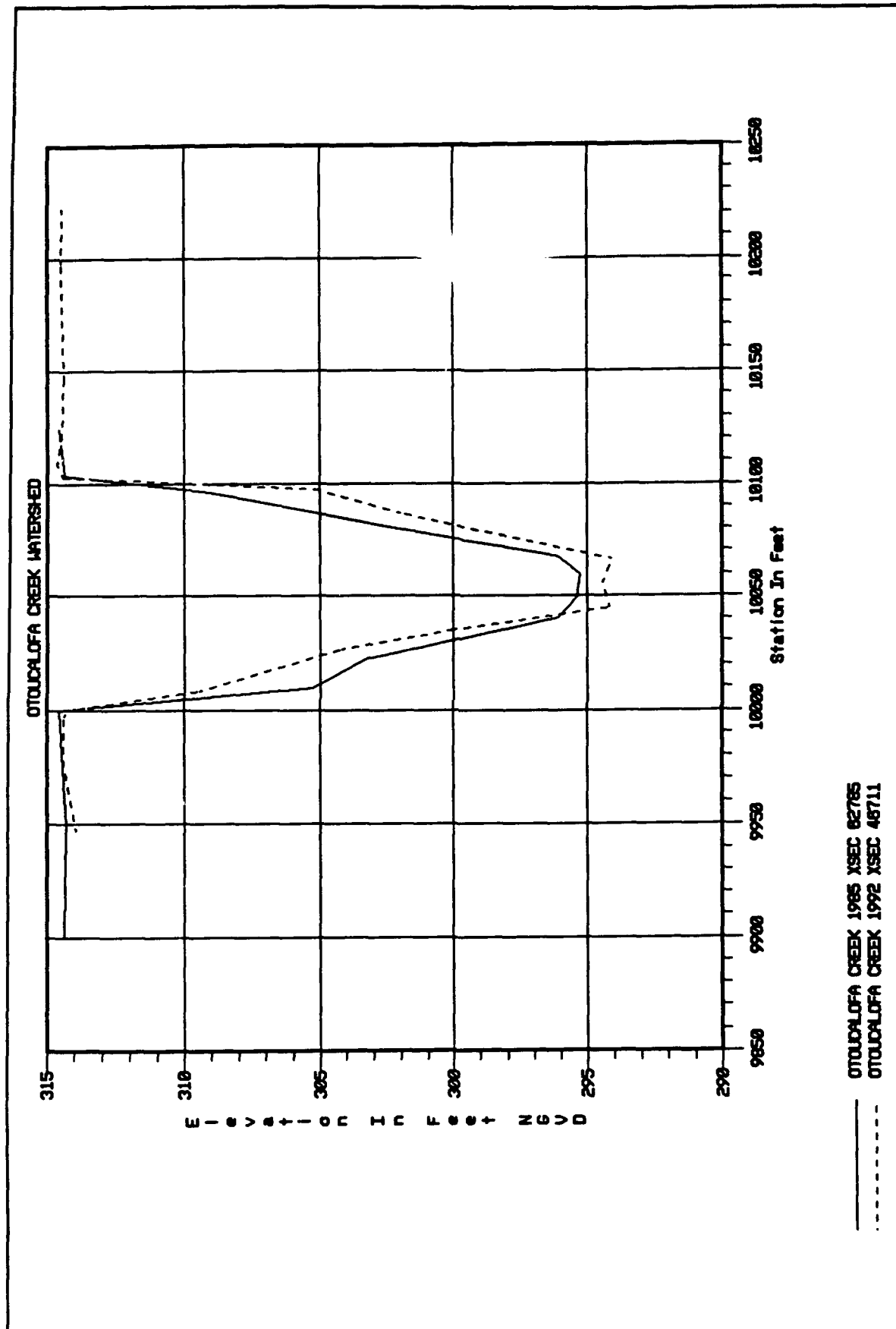
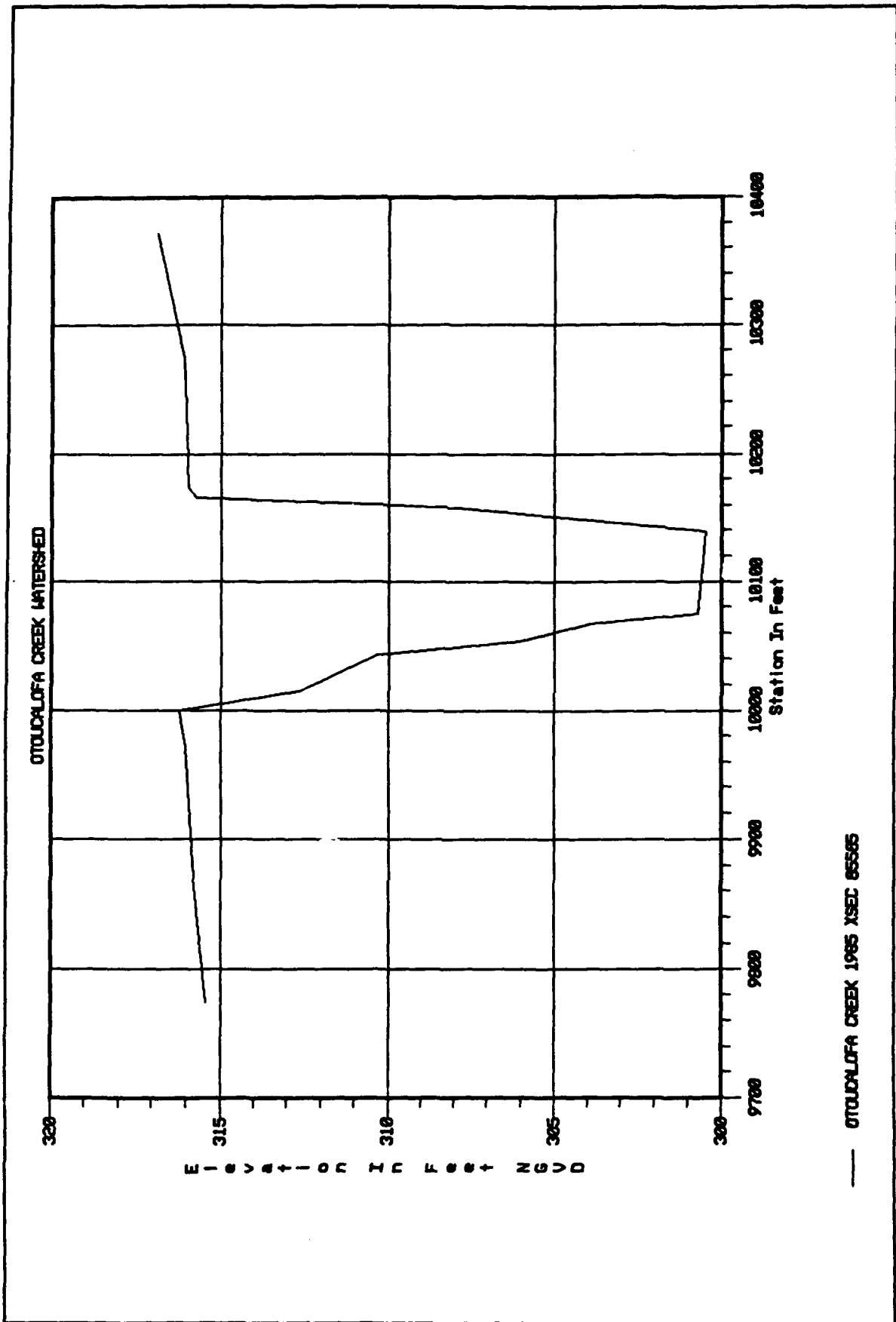


Plate C64



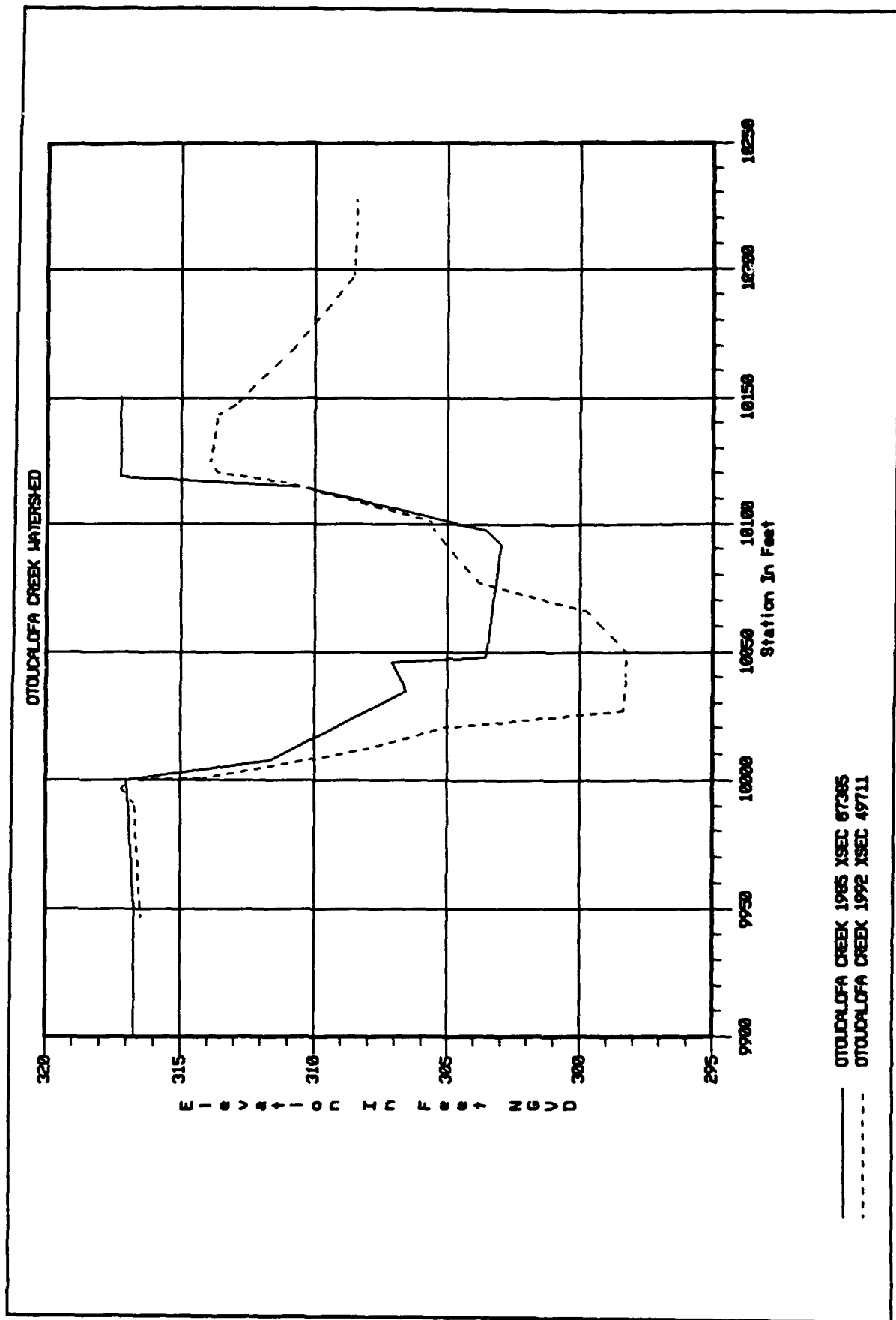
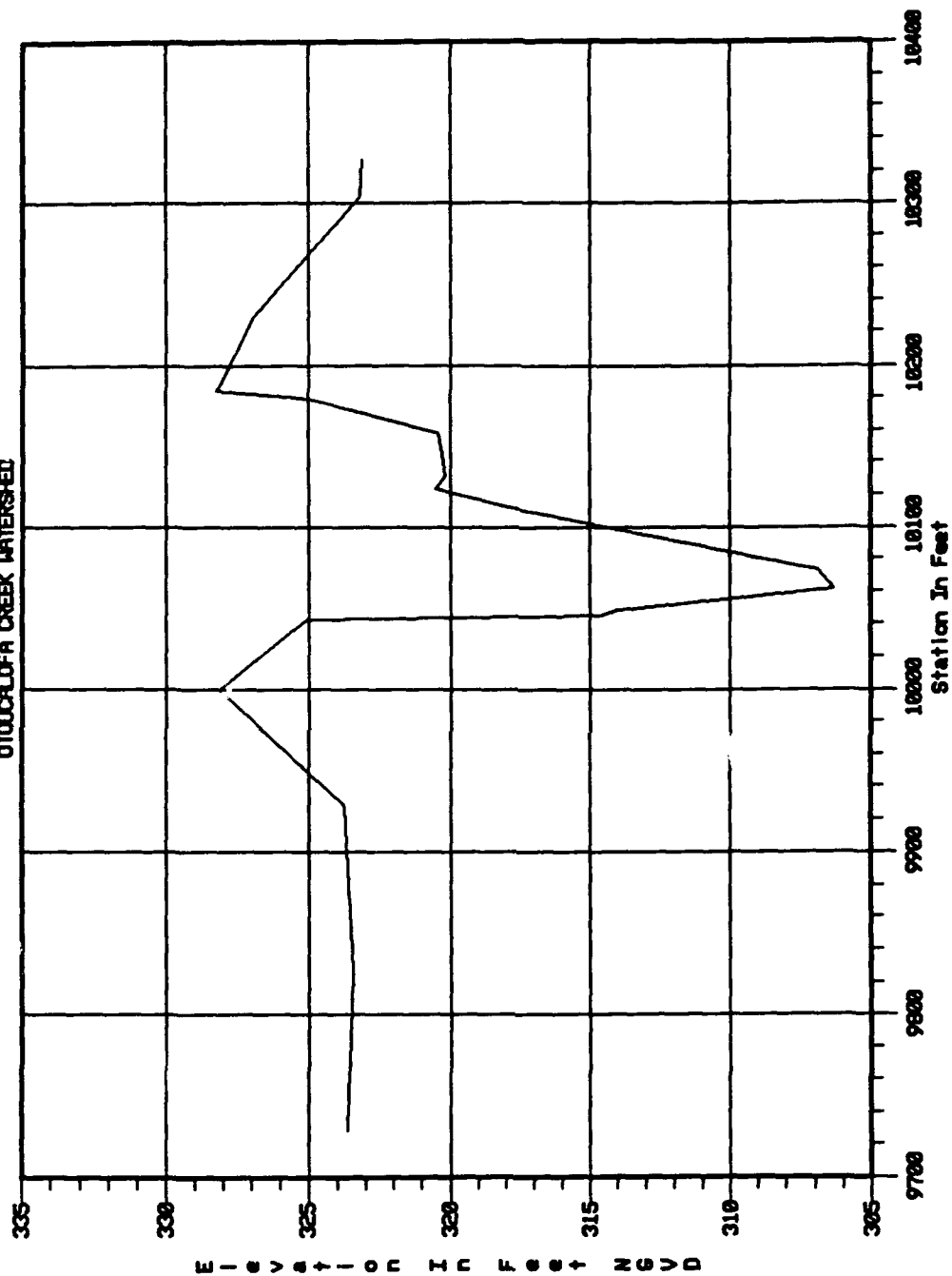


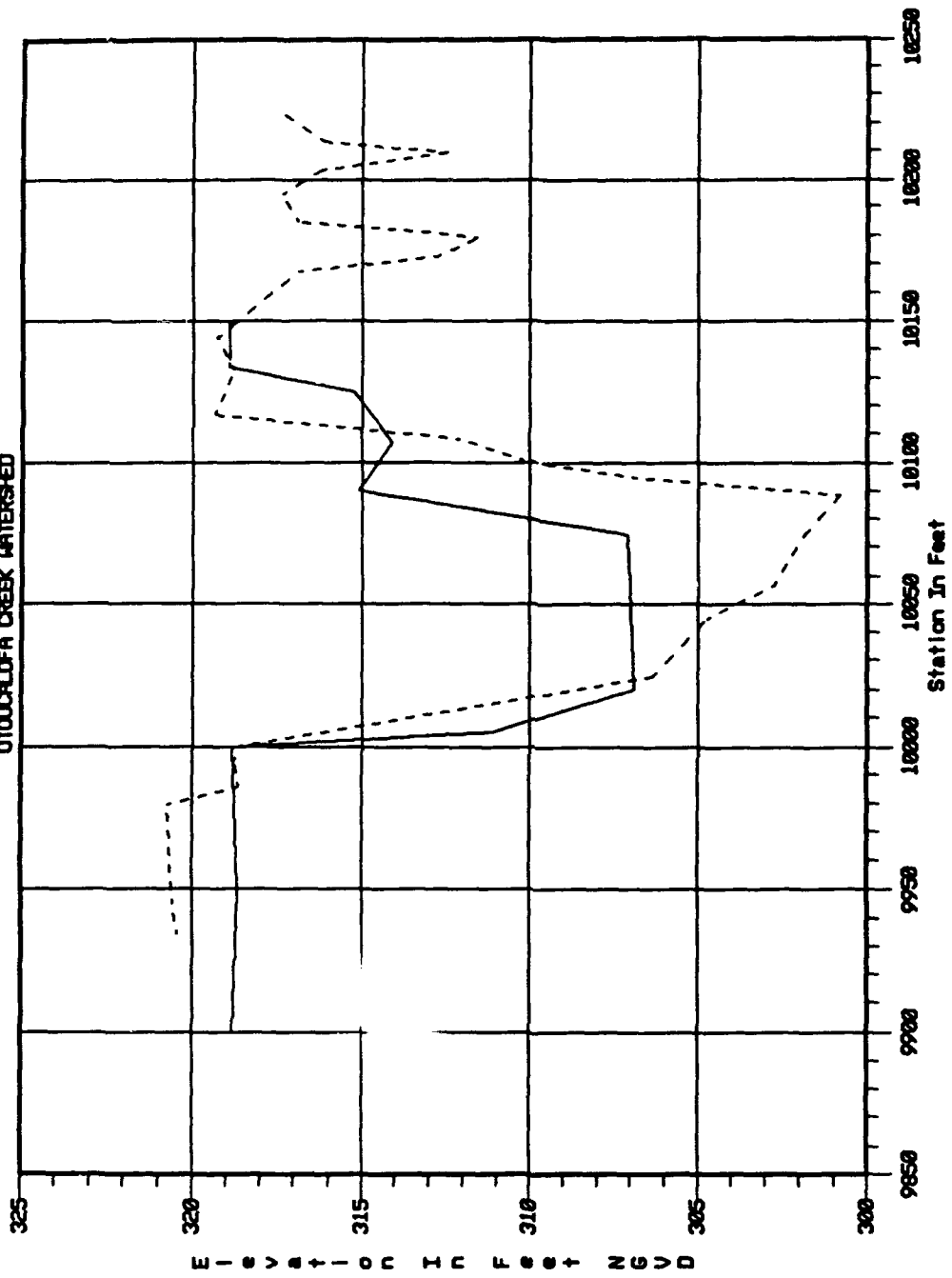
Plate C66

OTTOLOLOFA CREEK WATERSHED

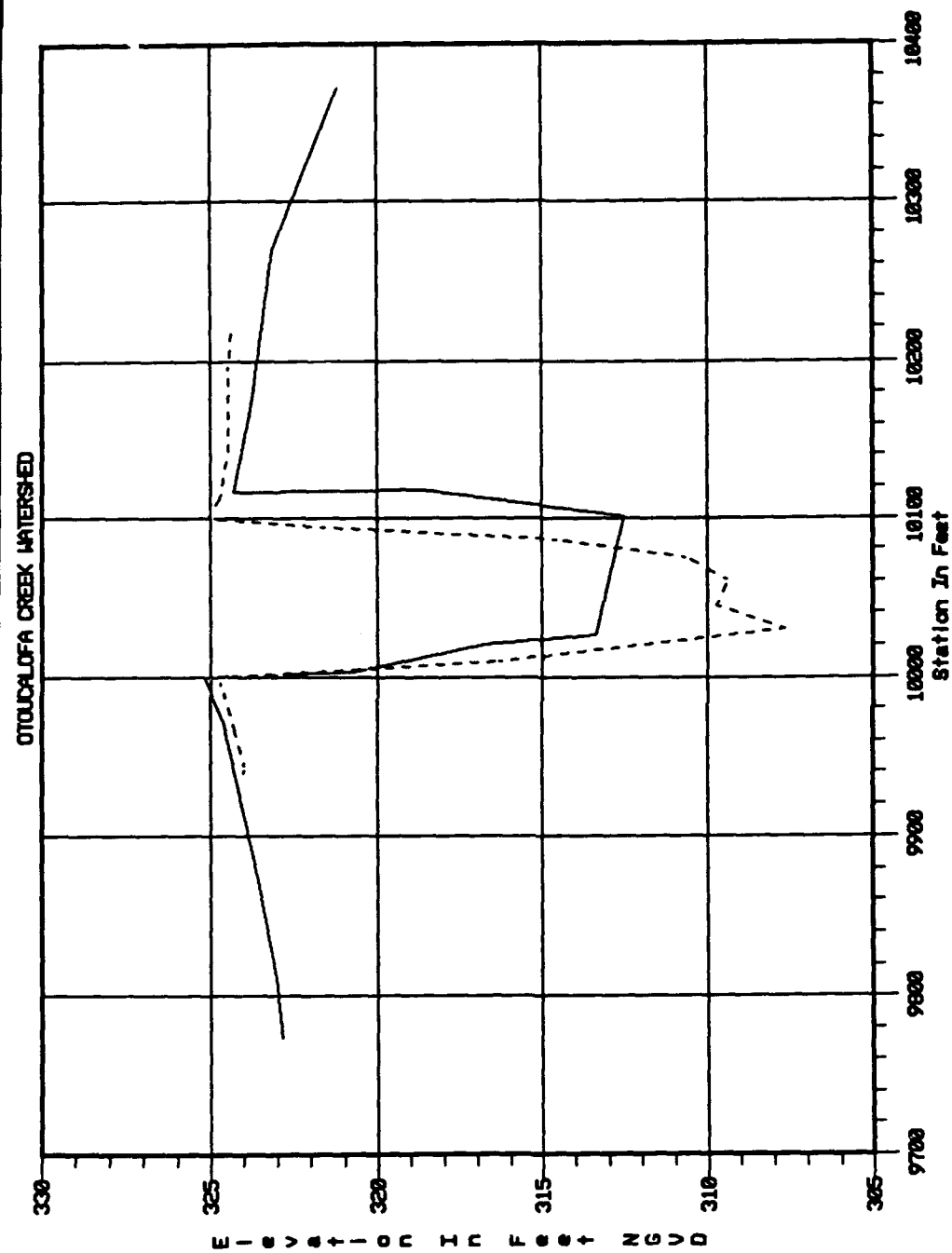


OTTOLOLOFA CREEK 1965 XSEC 71085

OTOUALOFA CREEK WATERSHED



— OTOUALOFA CREEK 1985 XSEC 70585
 - - - OTOUALOFA CREEK 1992 XSEC 52690



OTOLUALOFA CREEK 1985 XSEC 73750
OTOLUALOFA CREEK 1992 XSEC 55547

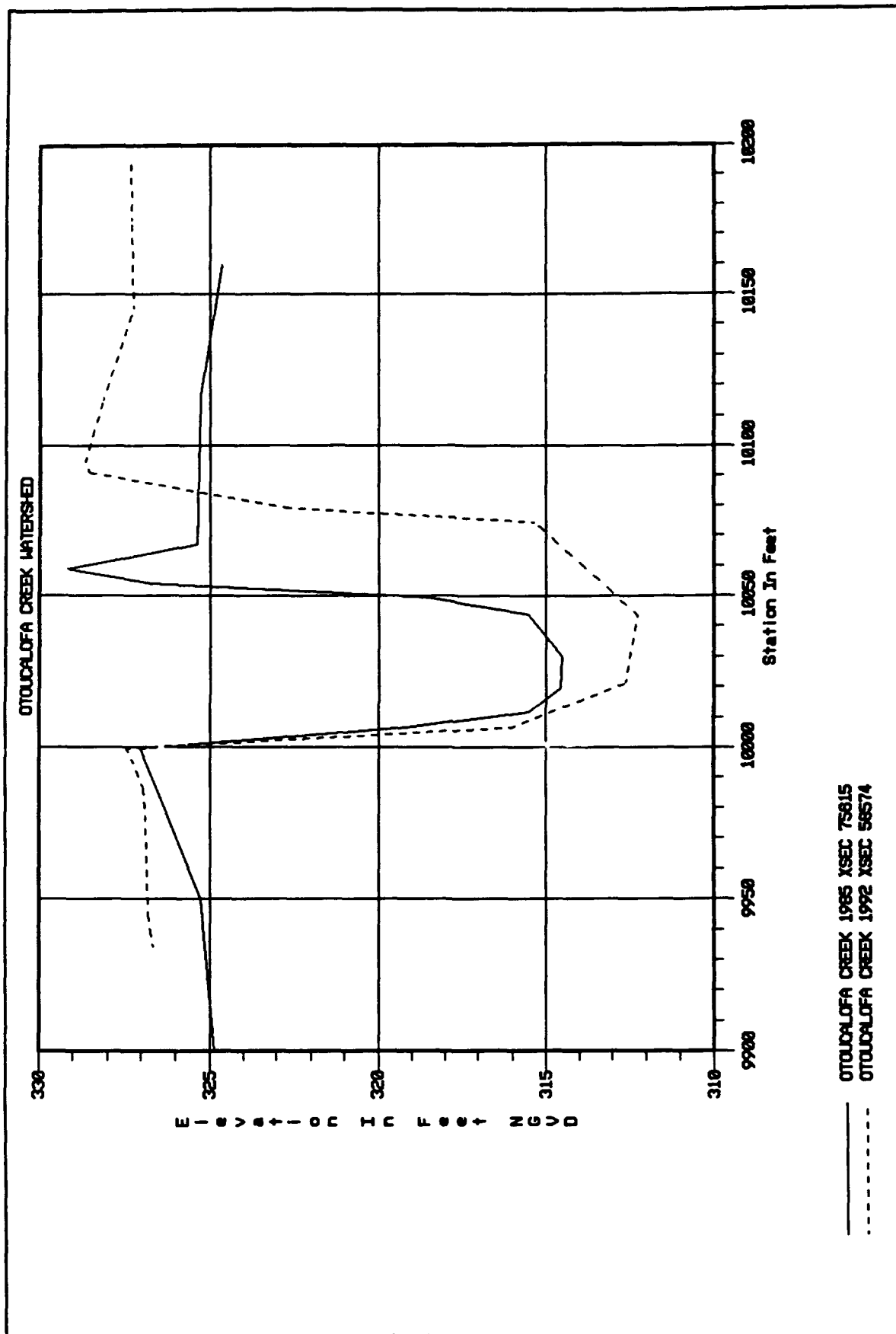
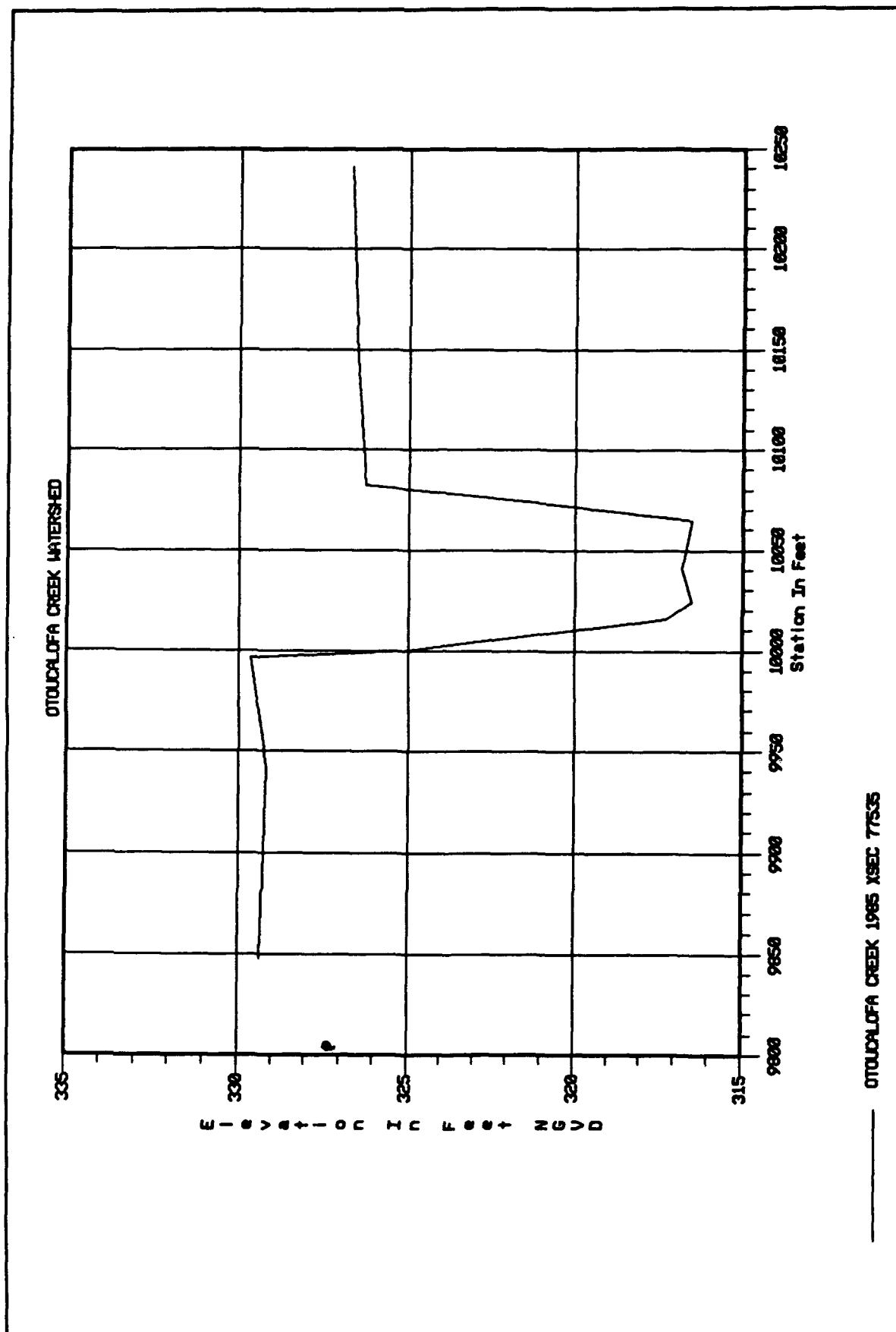


Plate C70



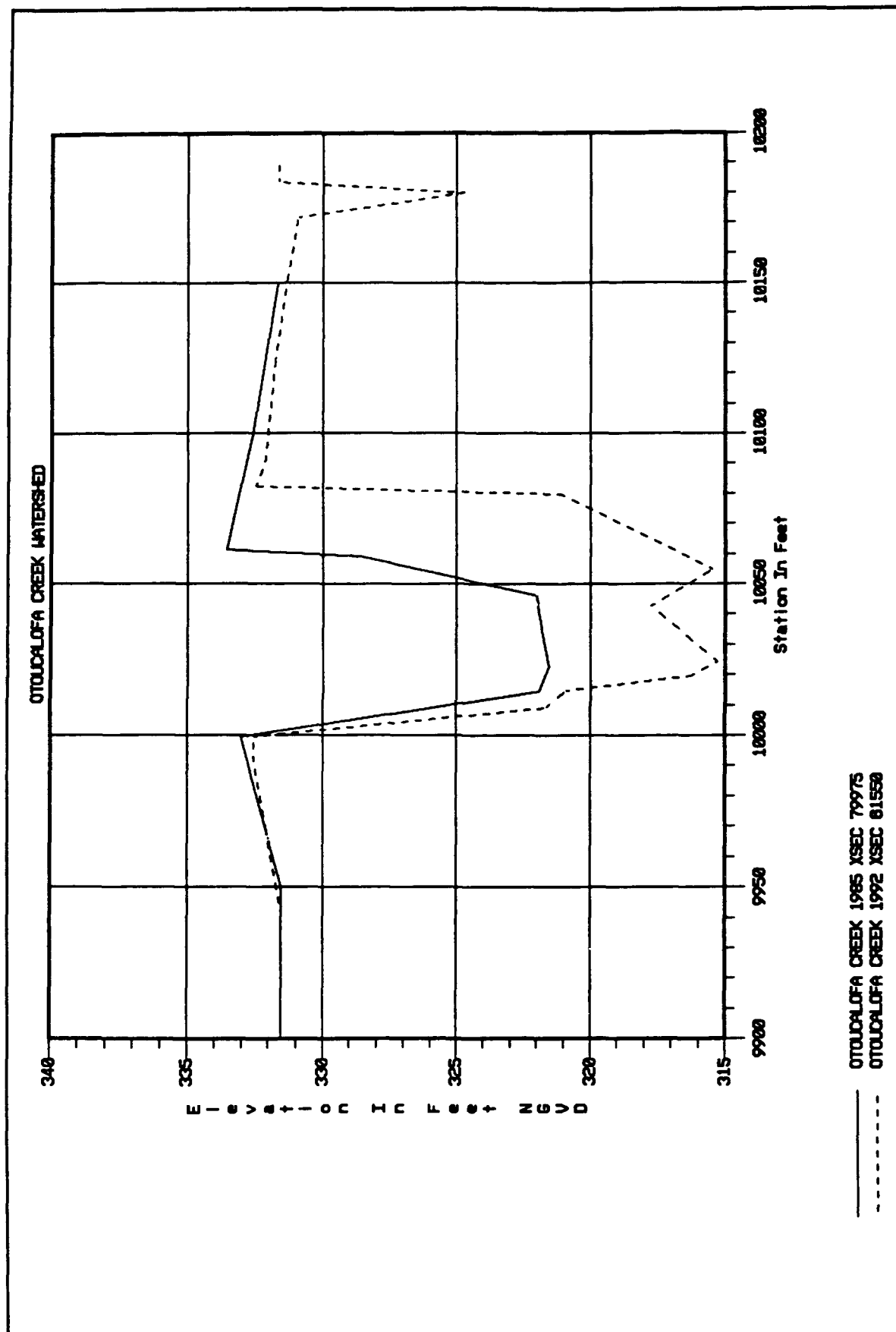
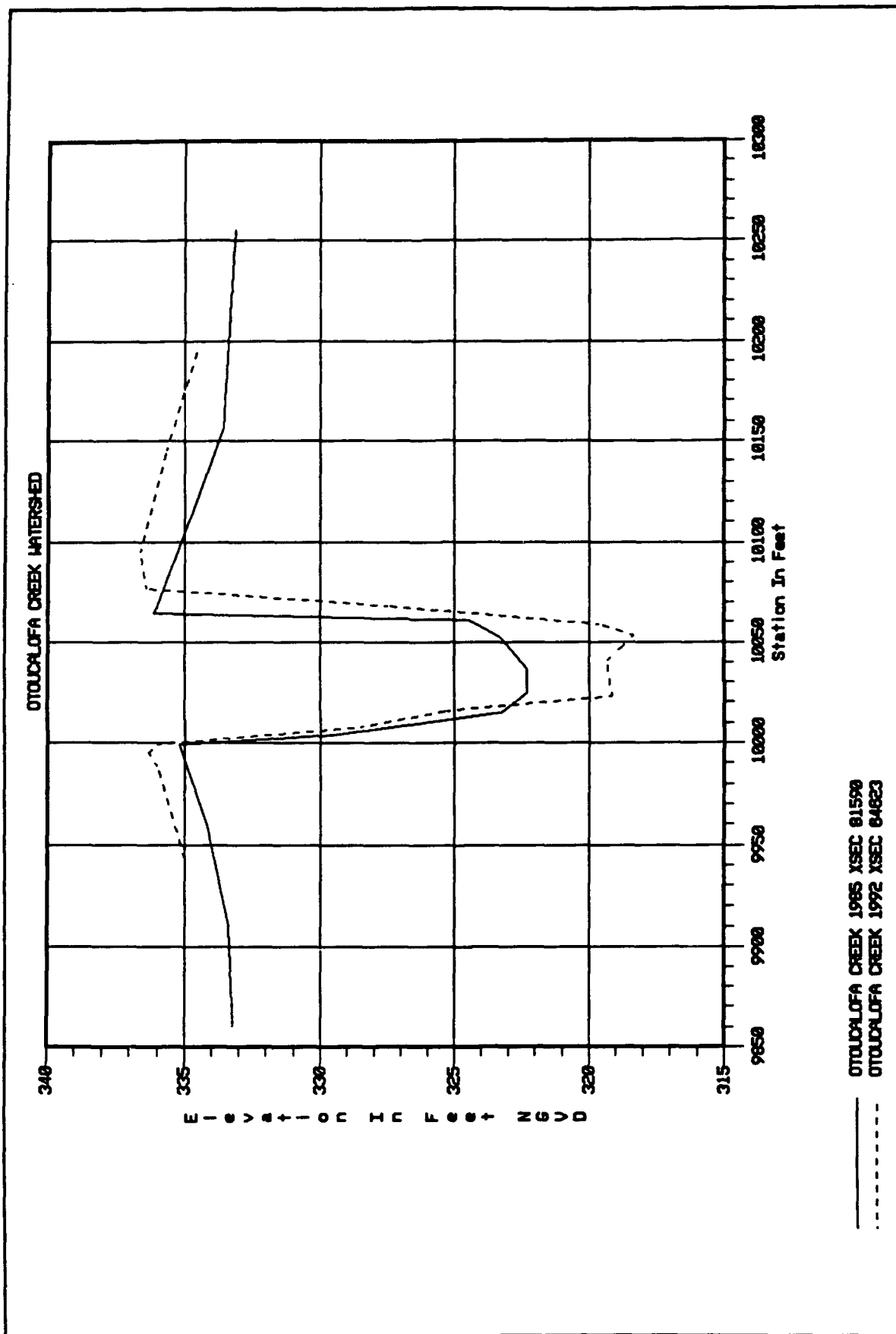


Plate C72



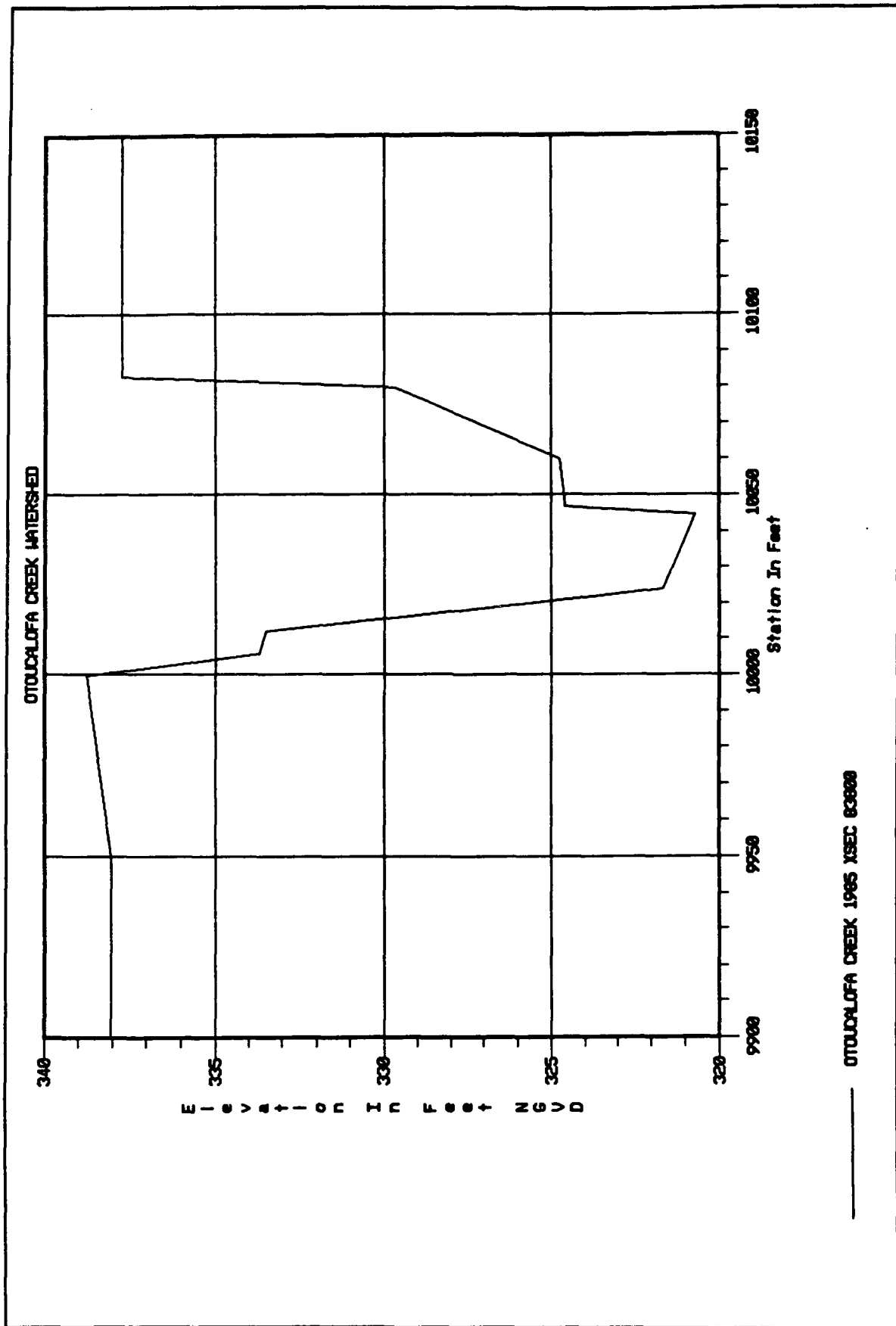
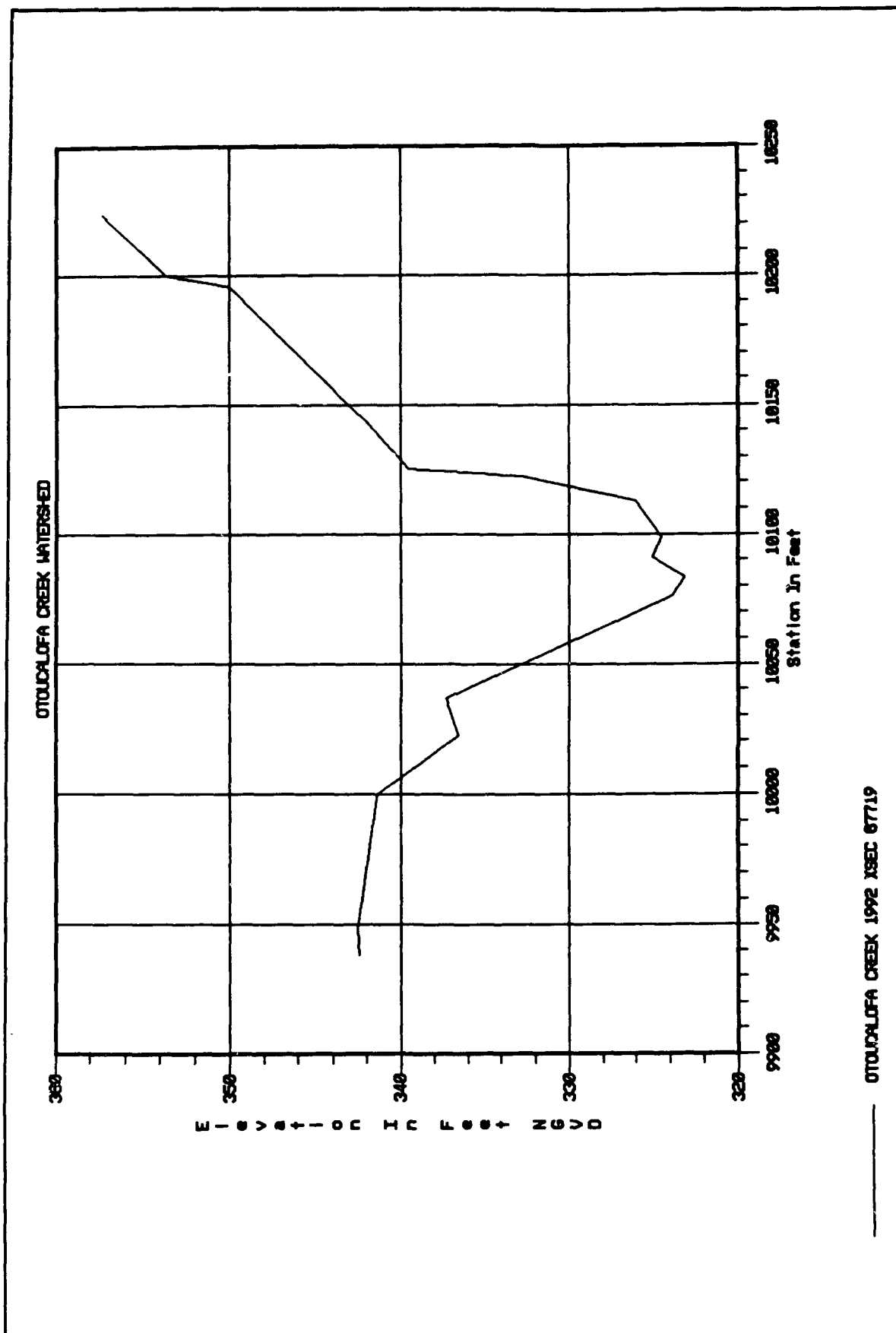


Plate C74



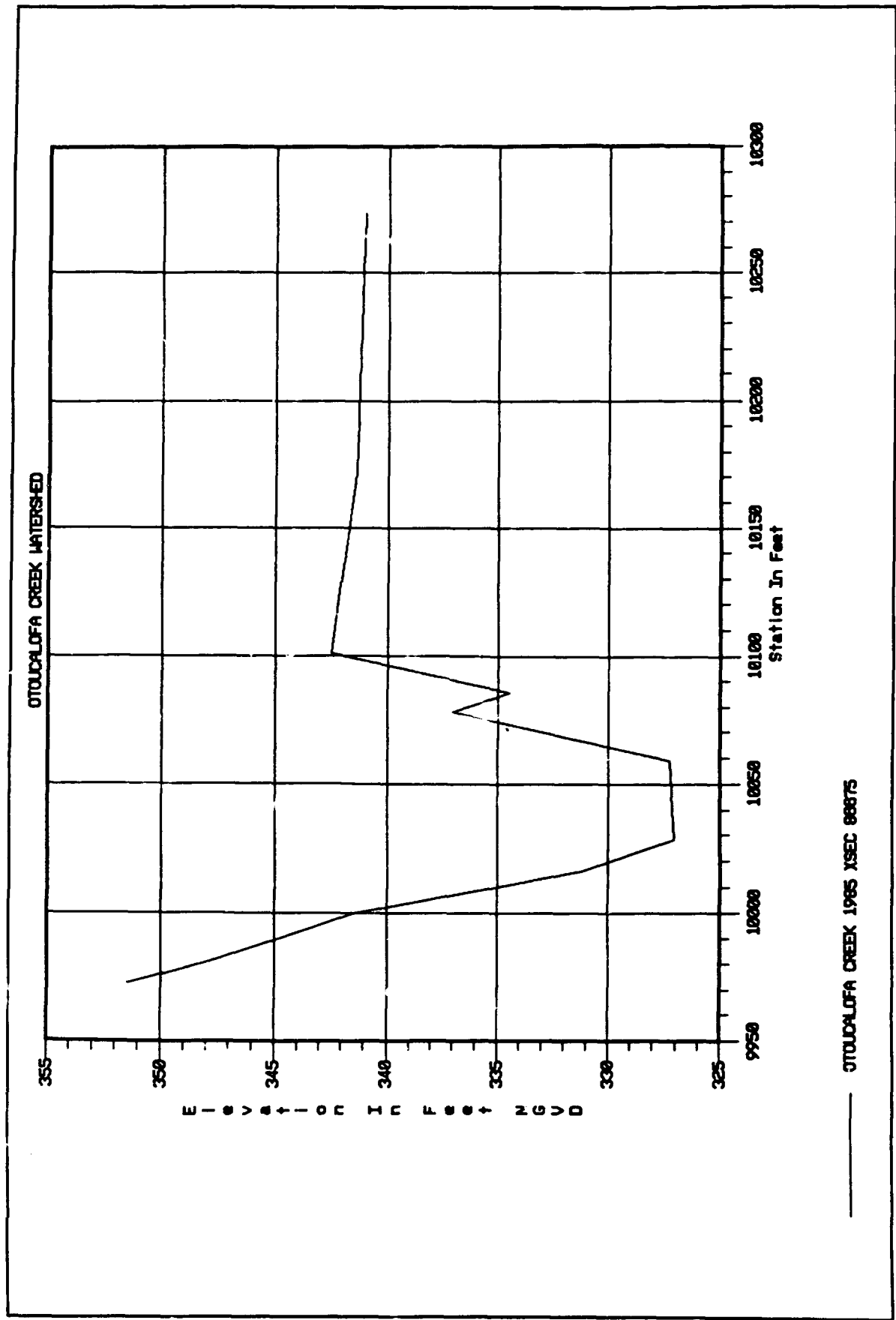
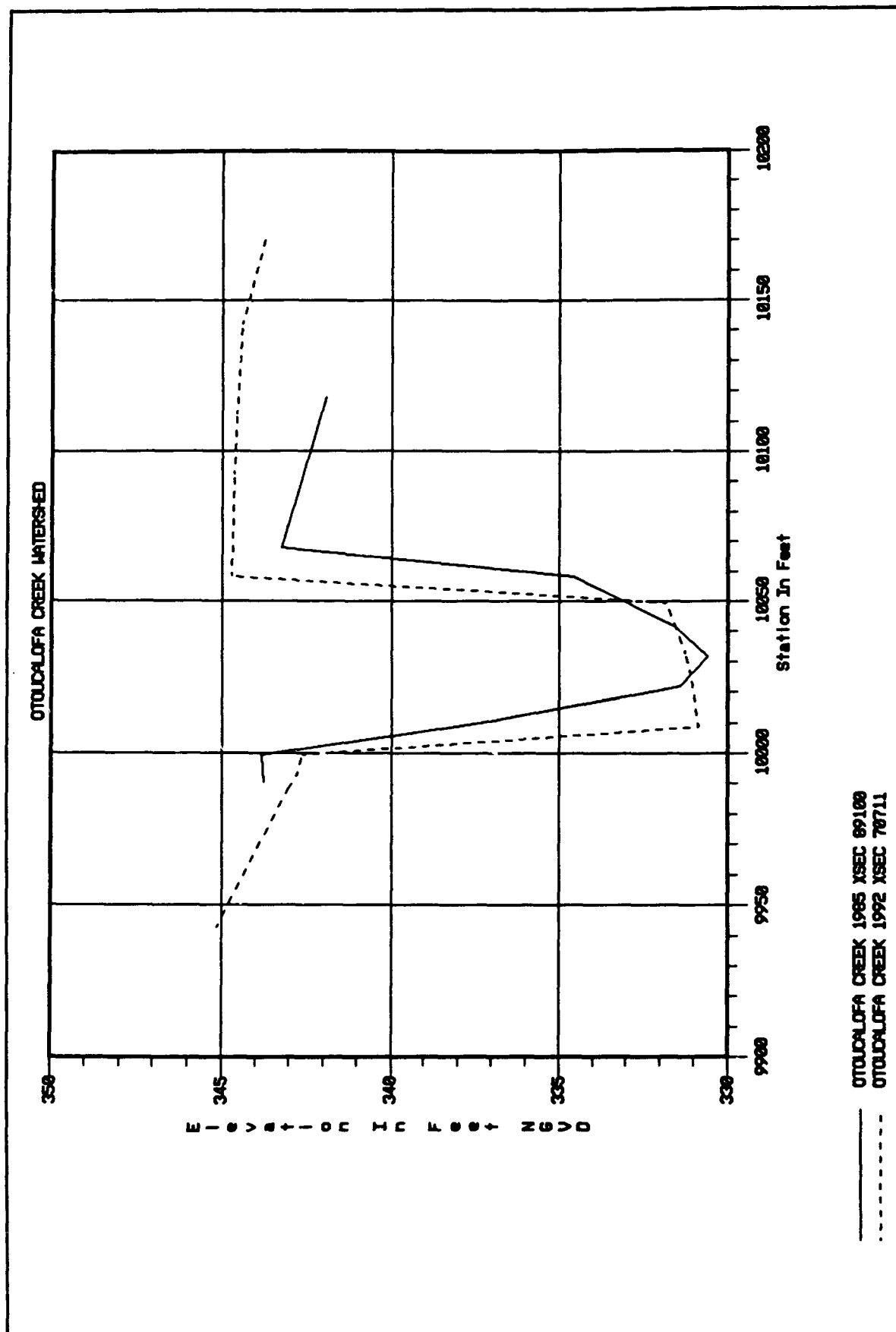


Plate C76



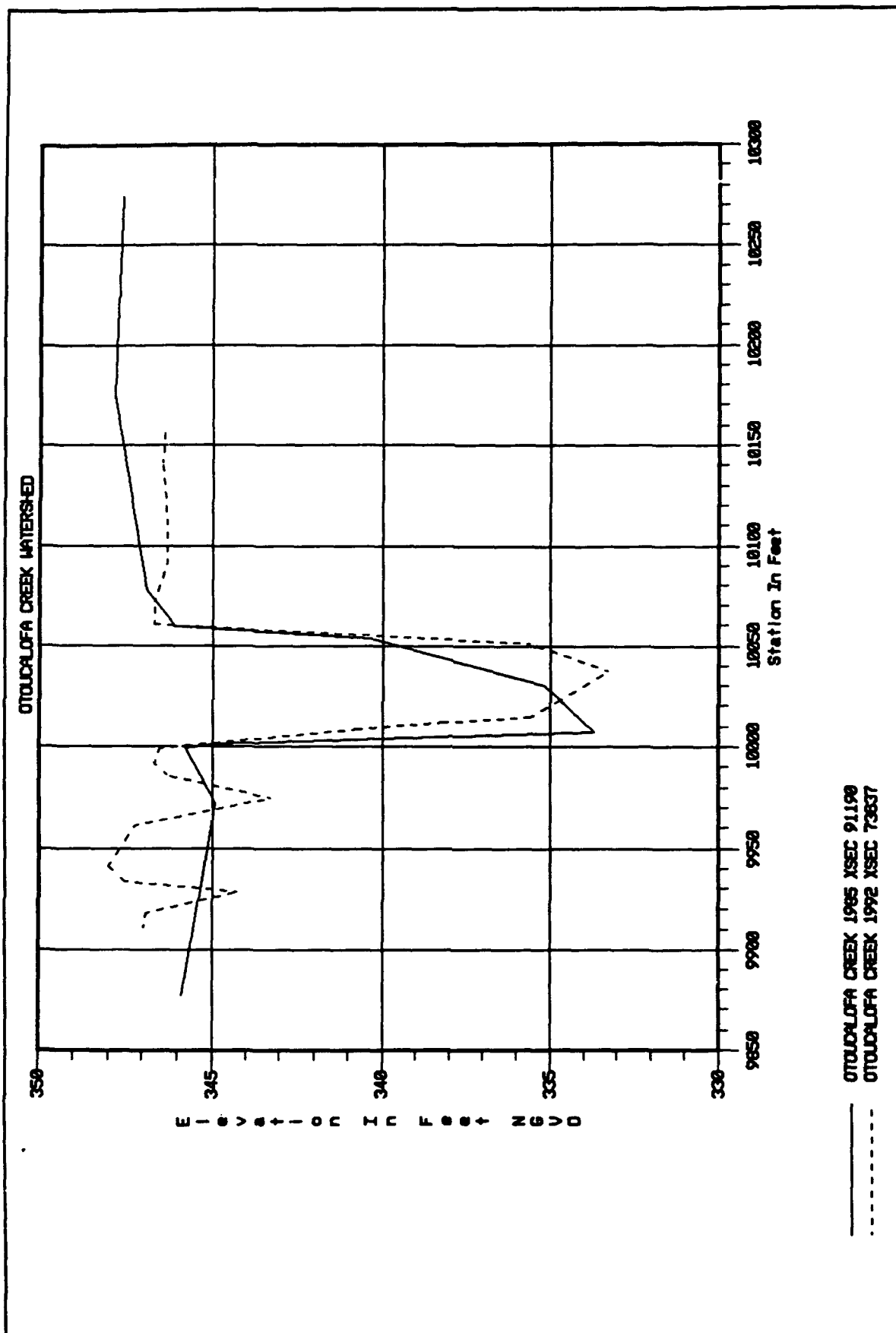
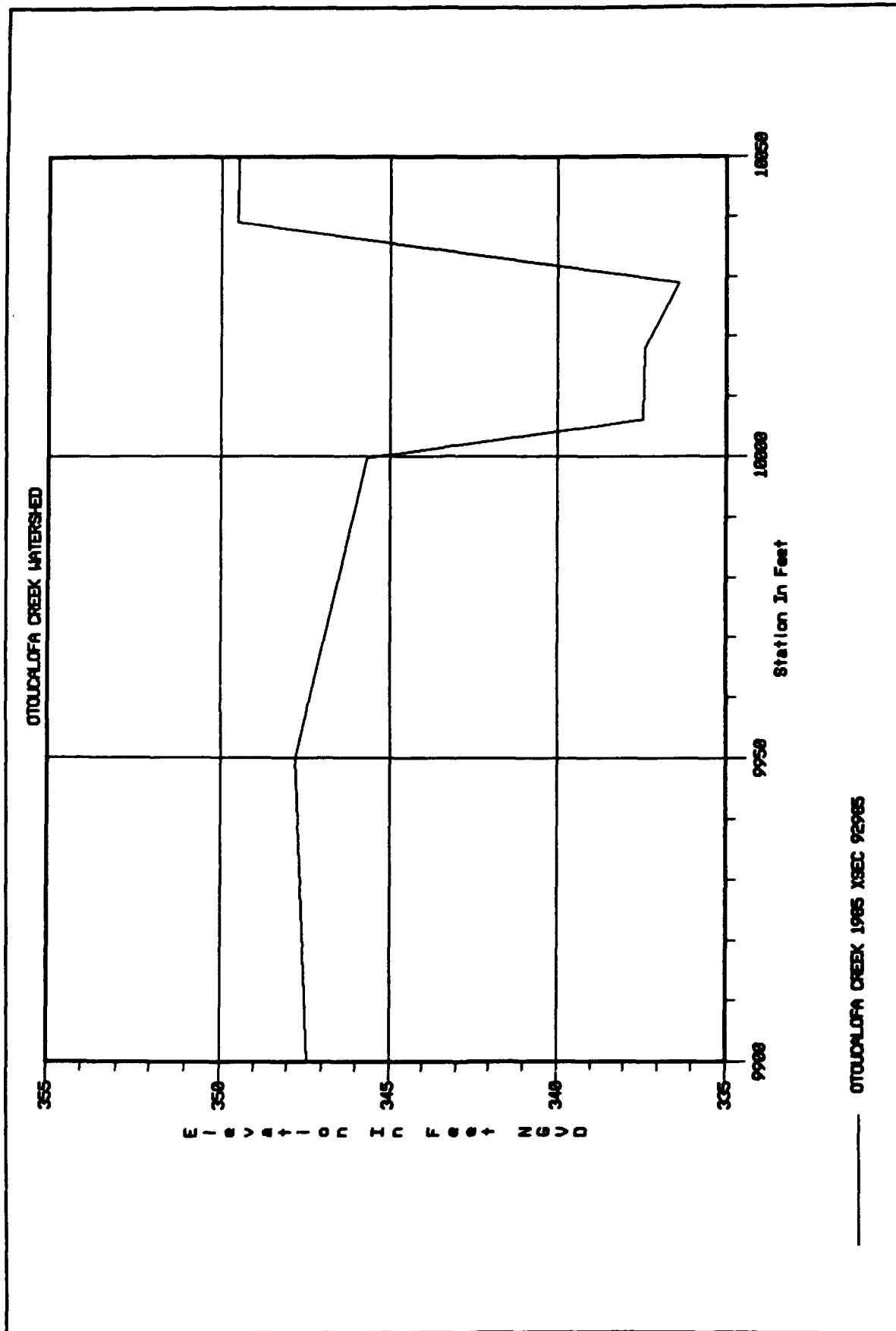


Plate C78



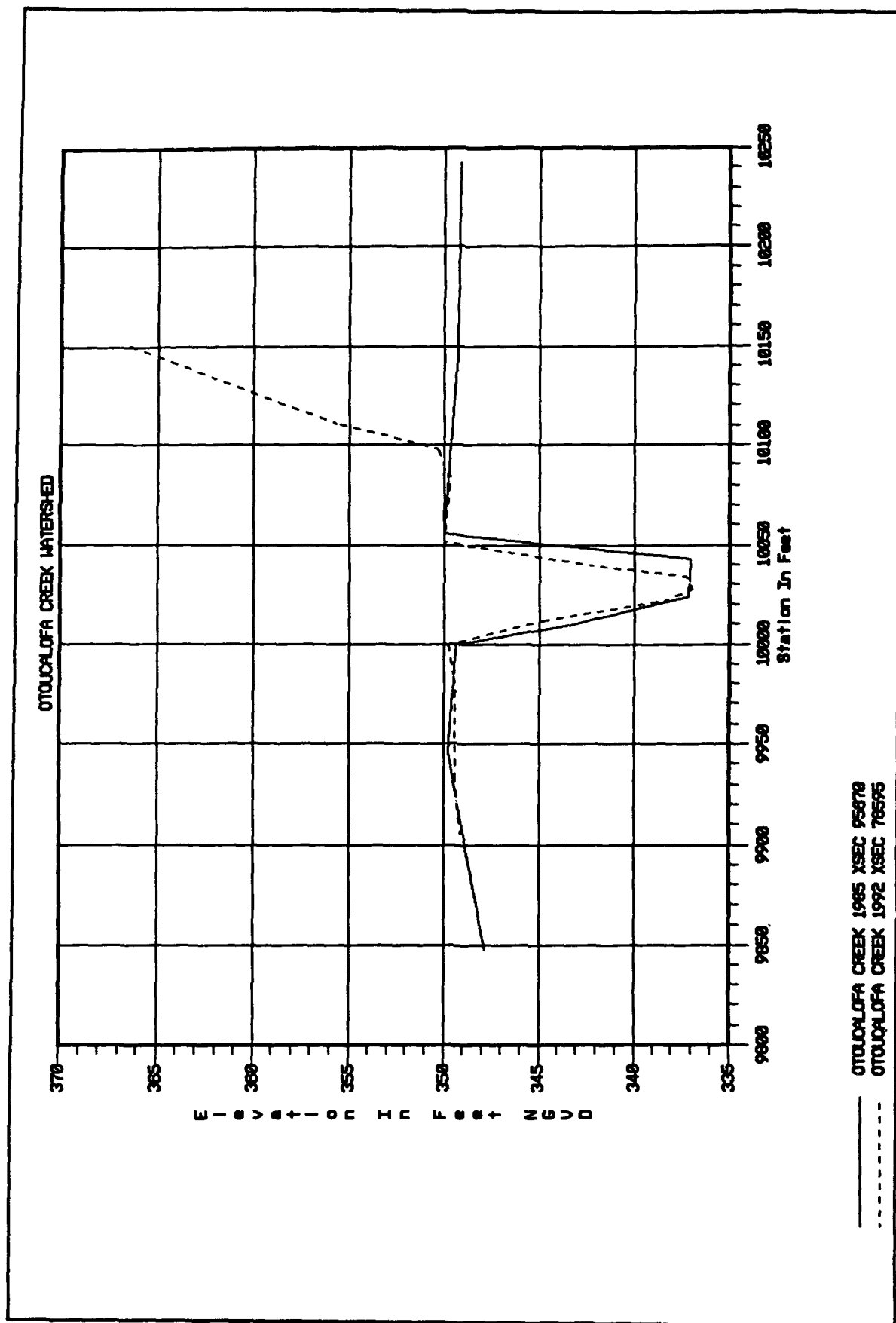
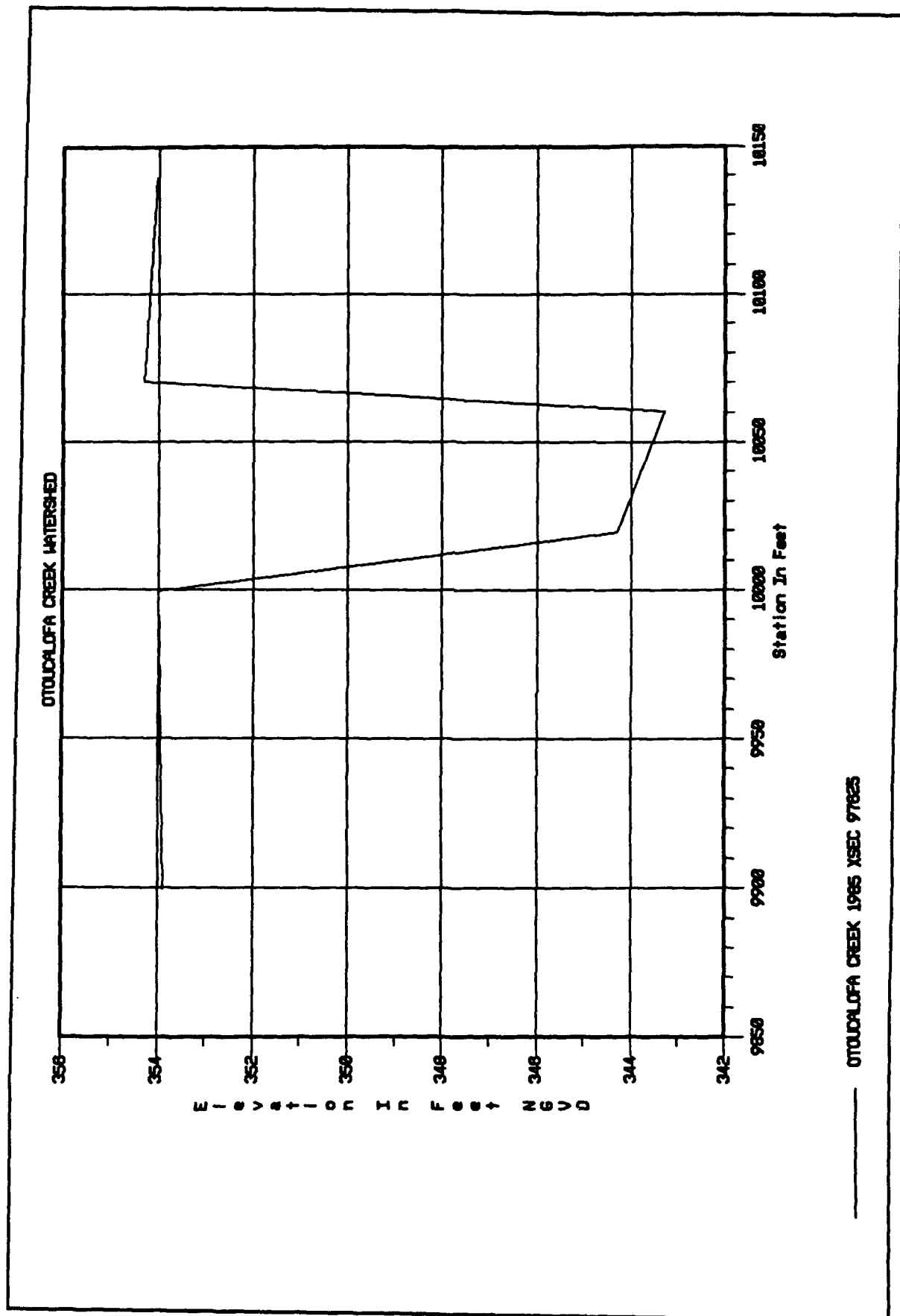


Plate C80



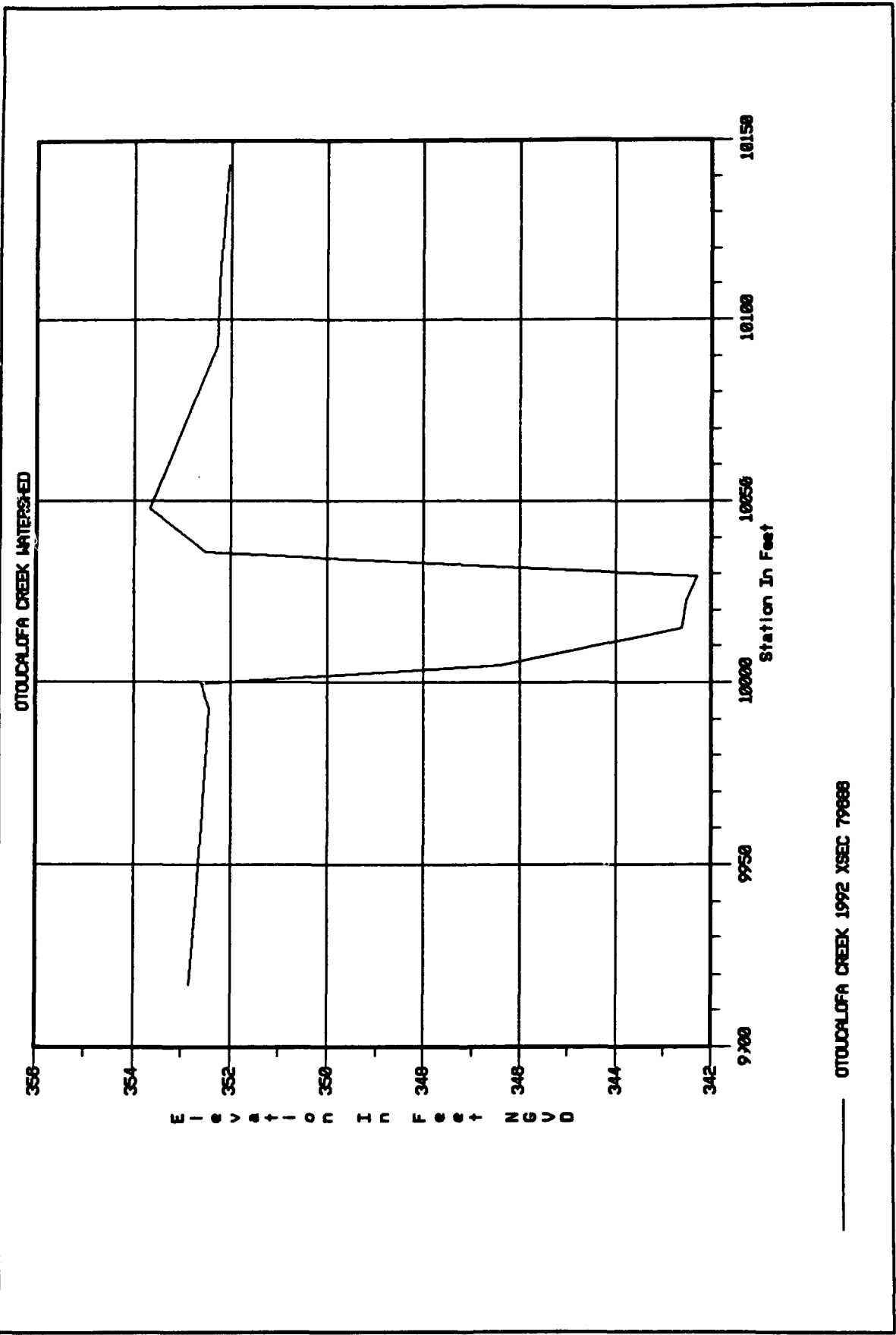
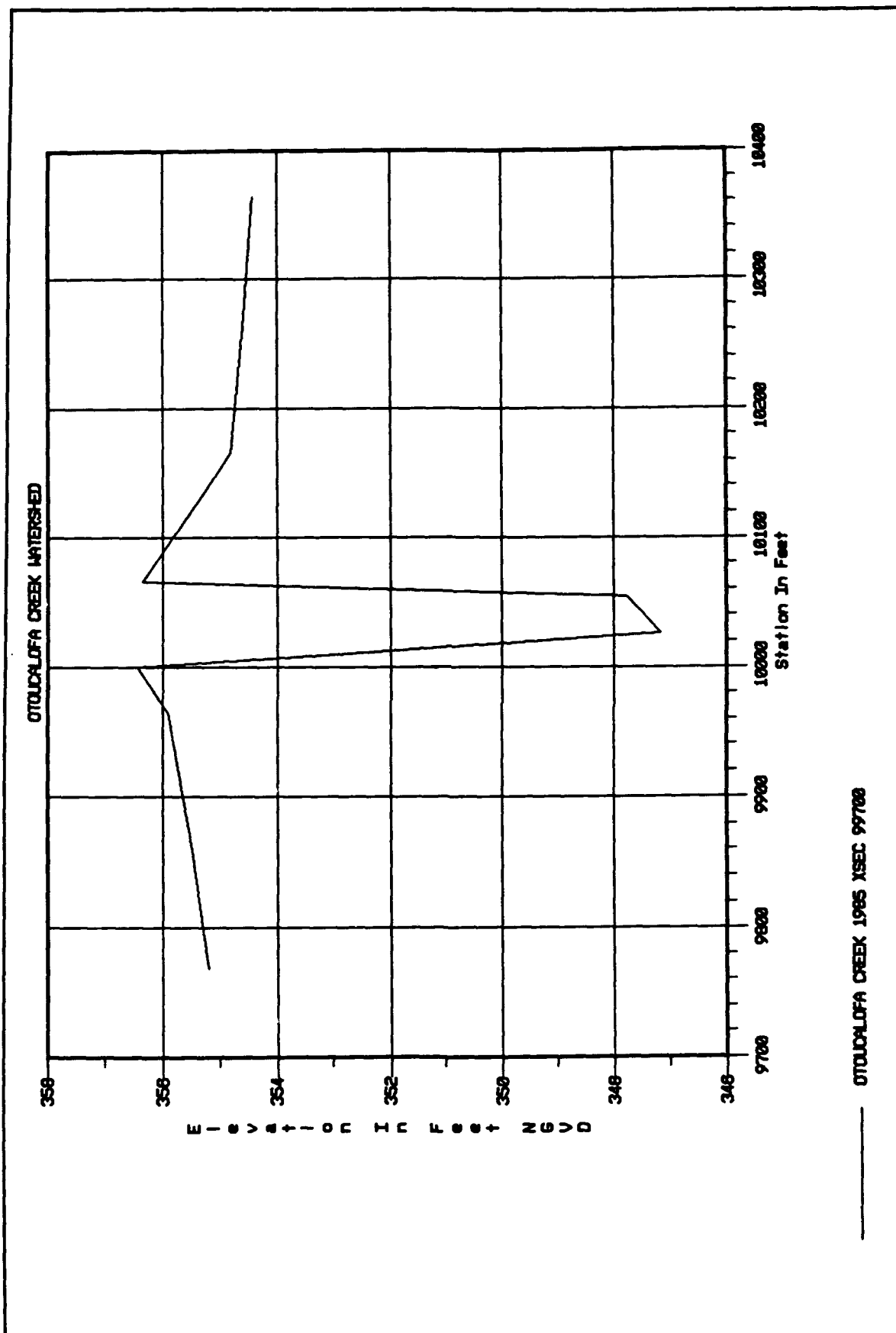


Plate C82



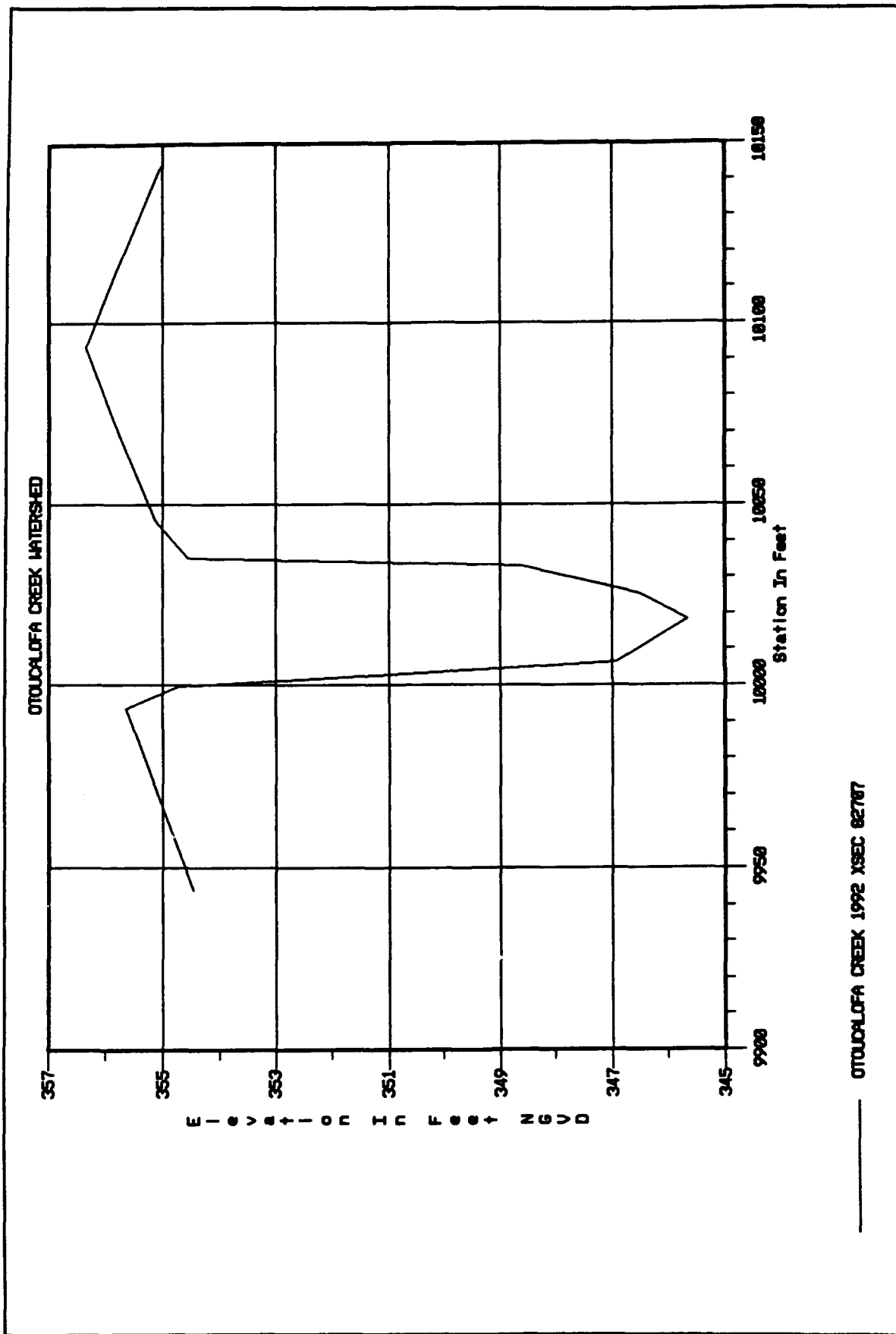
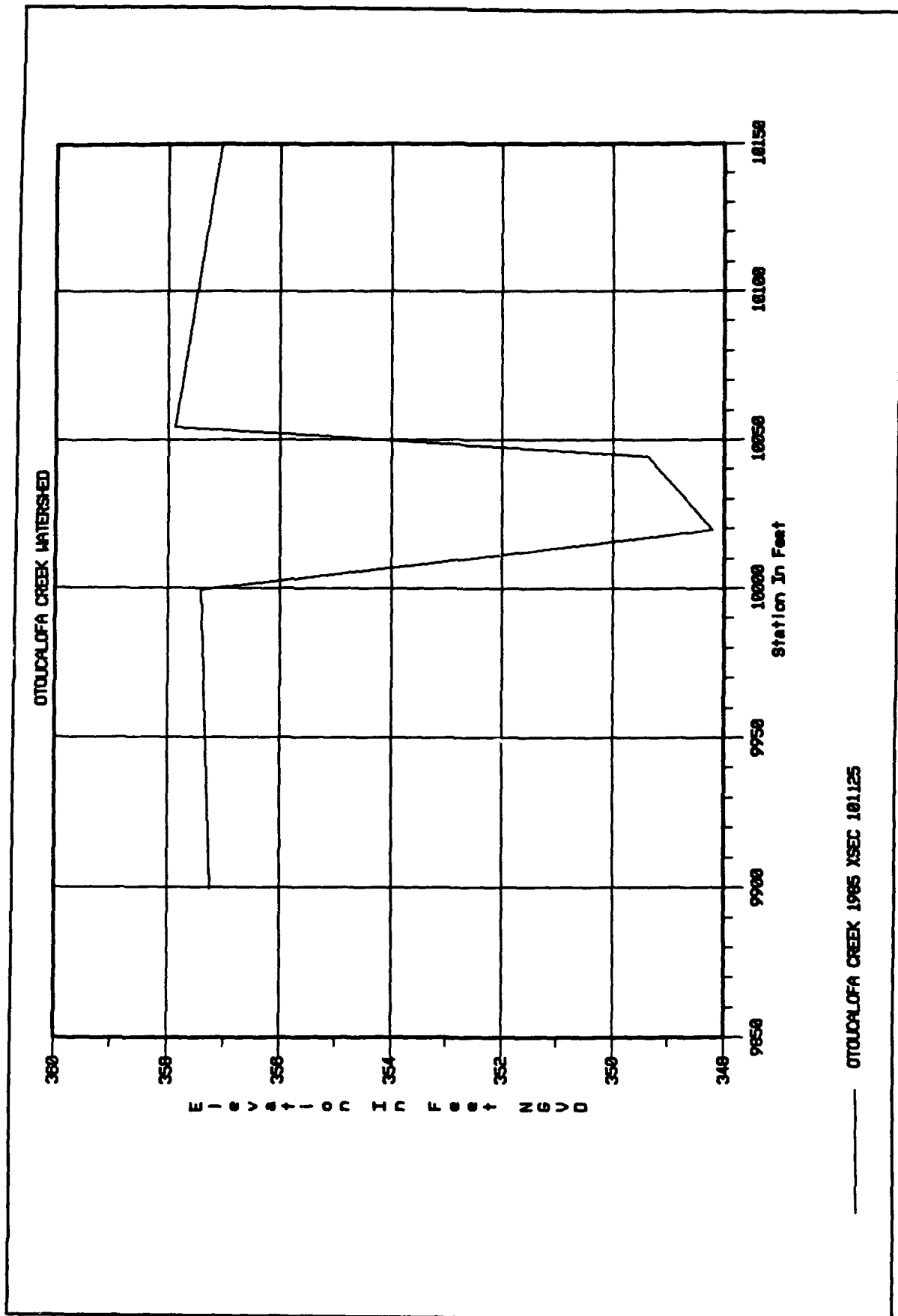


Plate C84



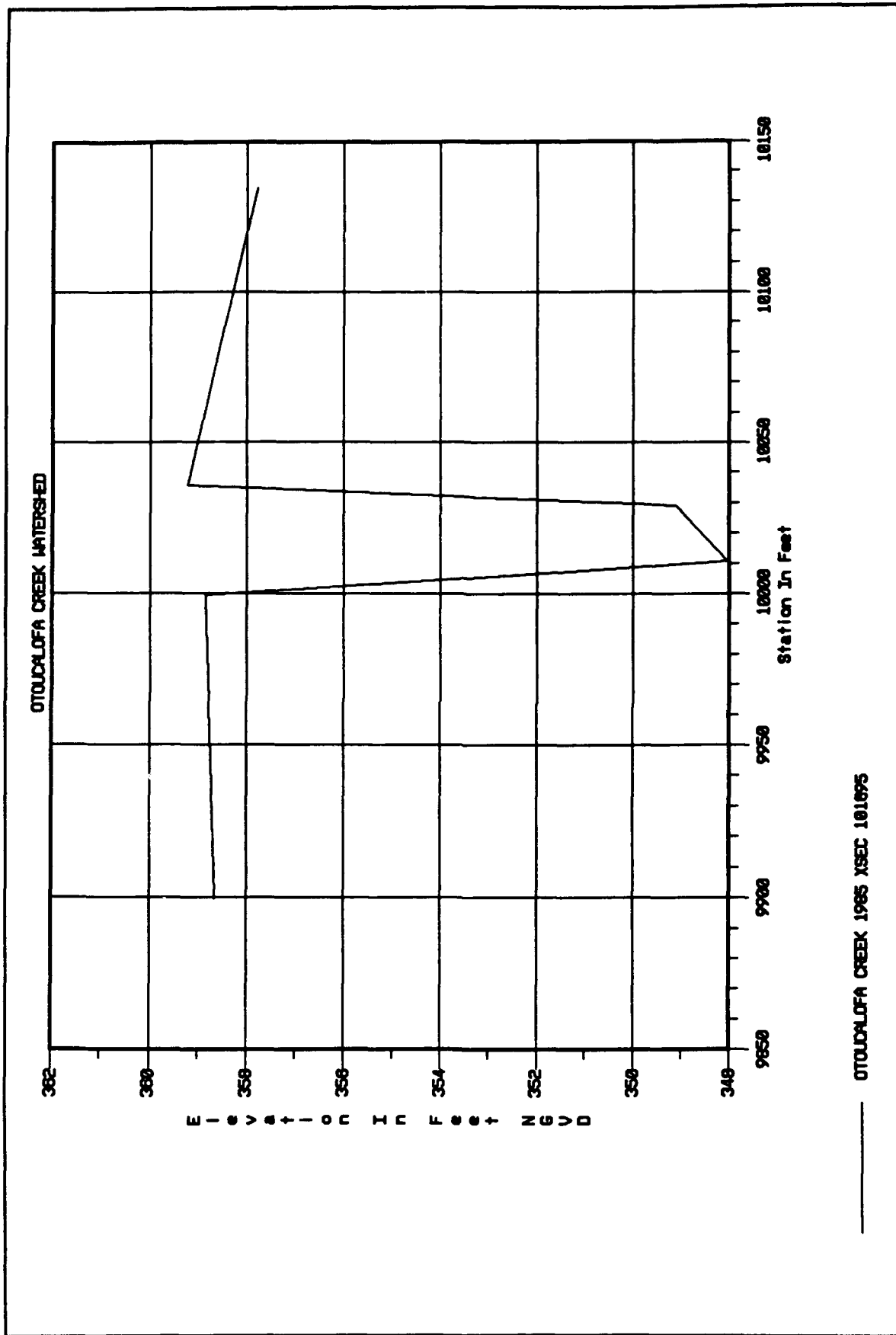
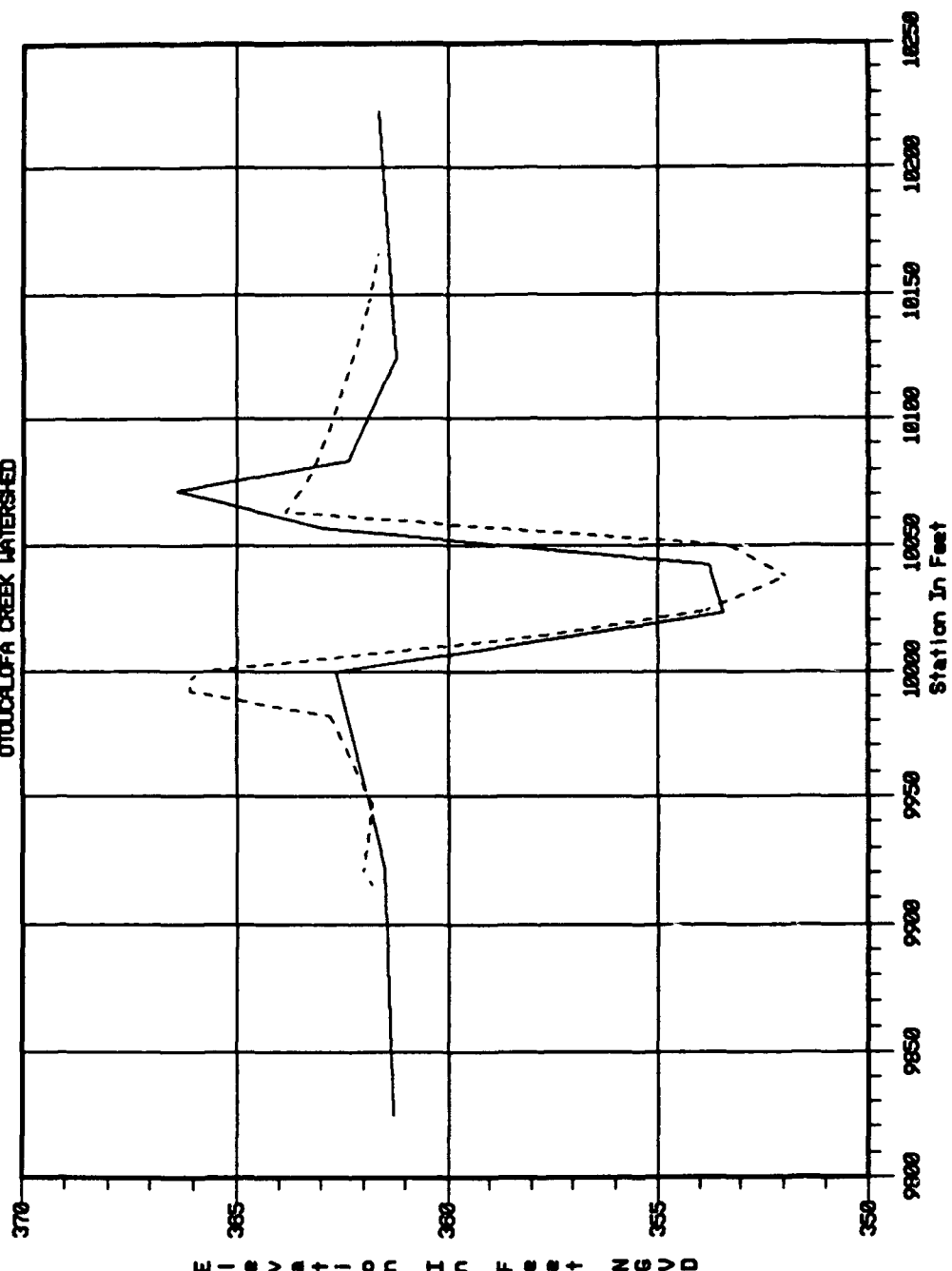


Plate C86

OTOLUALOFA CREEK WATERSHED



OTOLUALOFA CREEK 1985 XSEC 103725
 OTOLUALOFA CREEK 1992 XSEC 88711

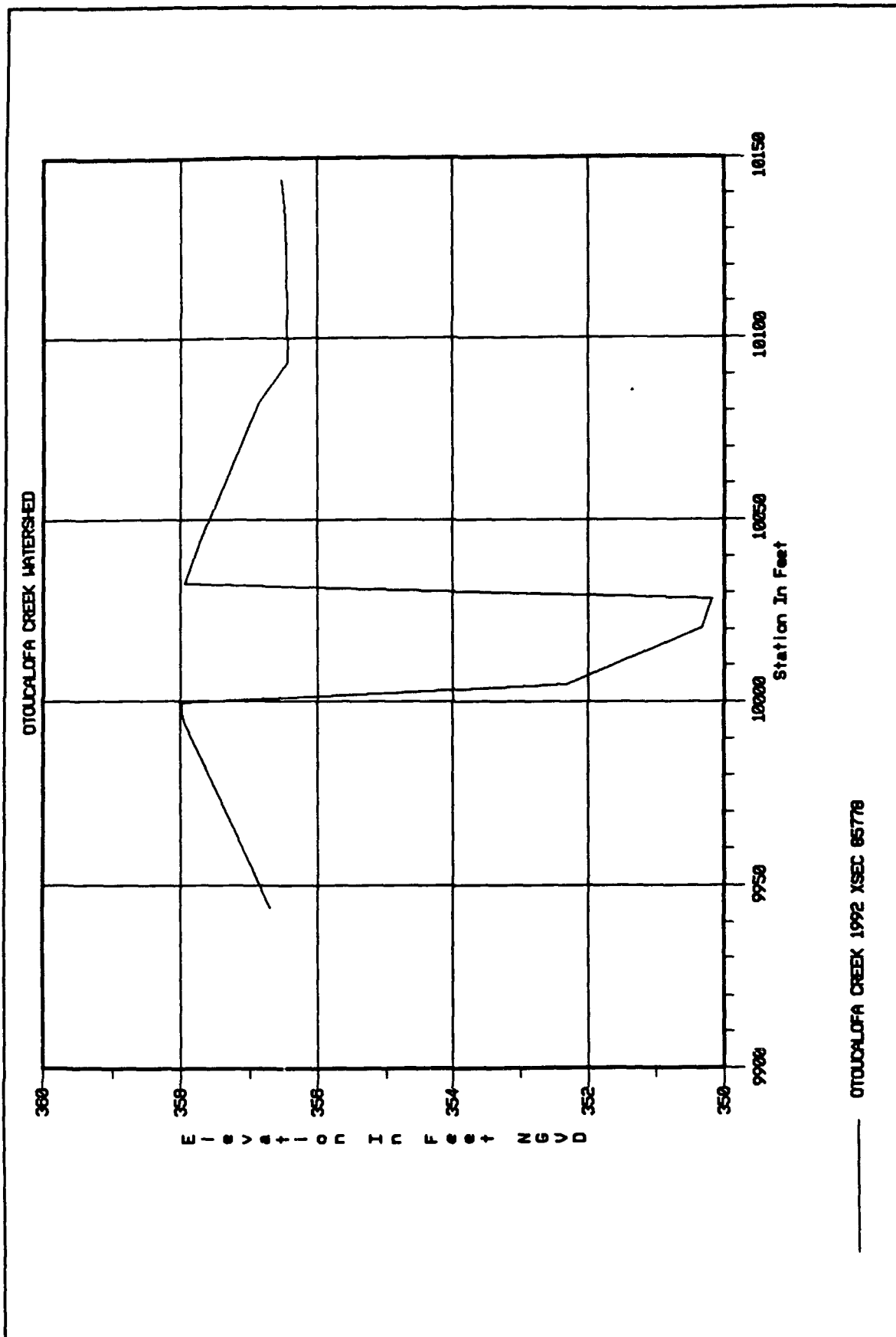
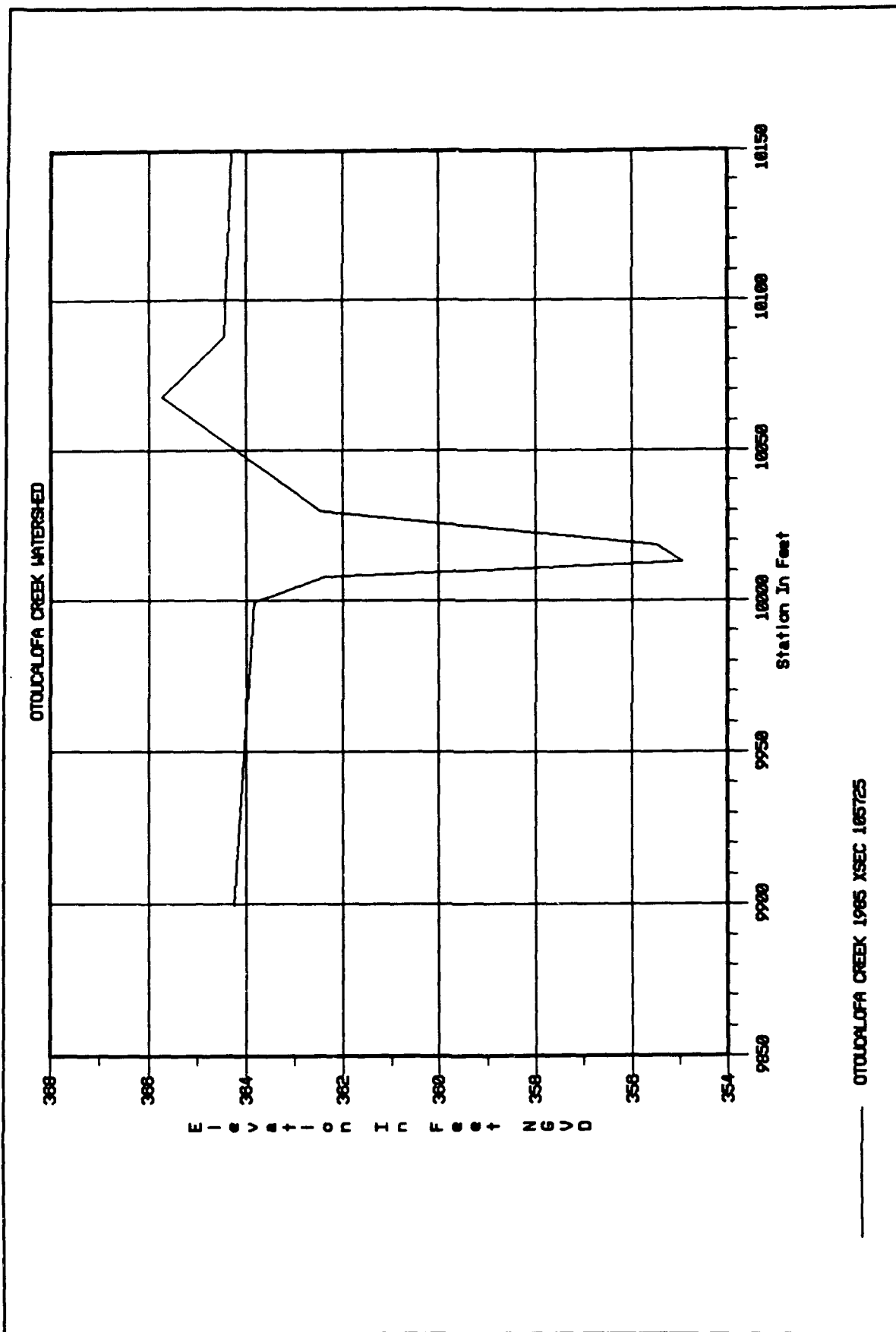
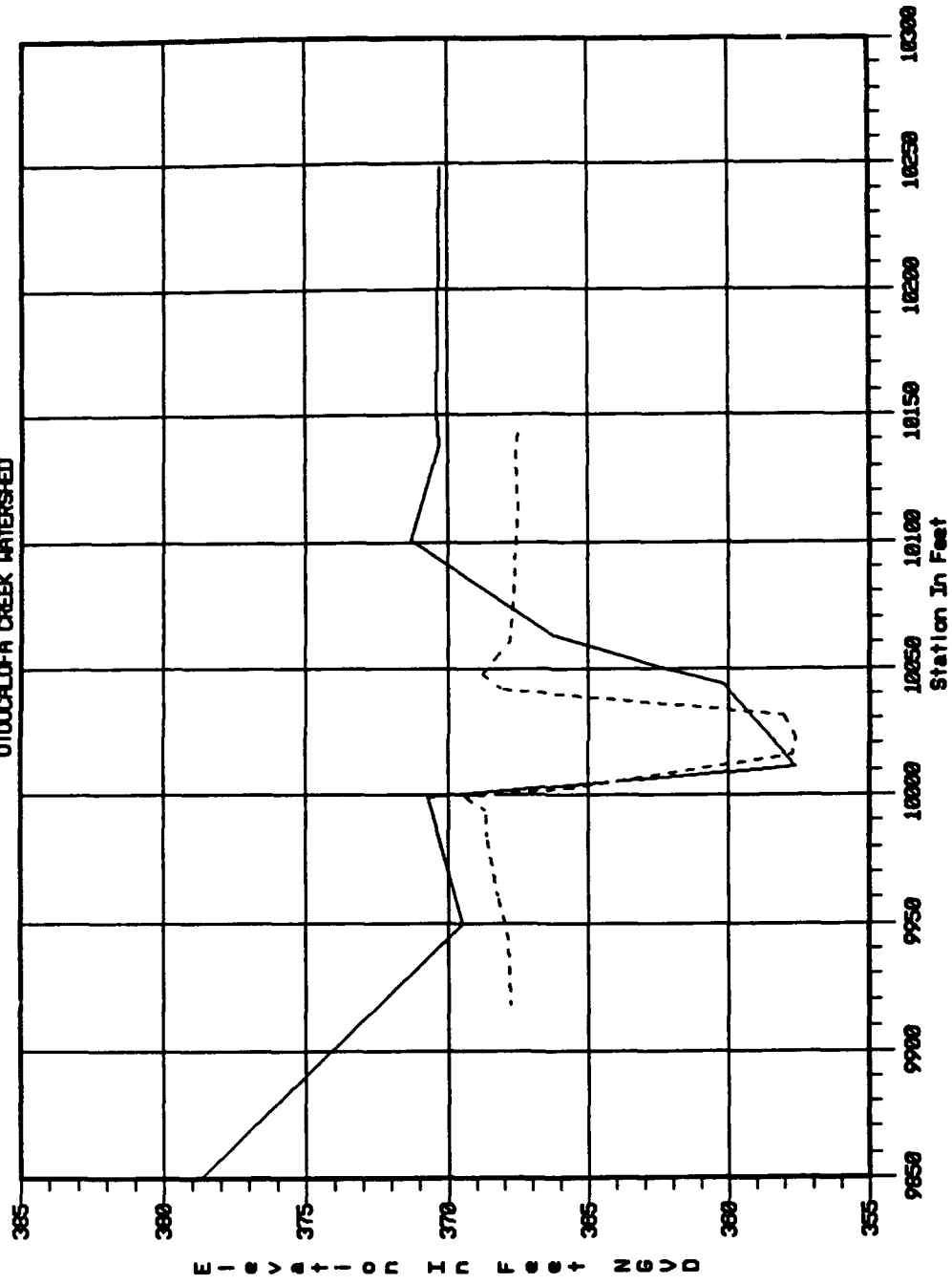


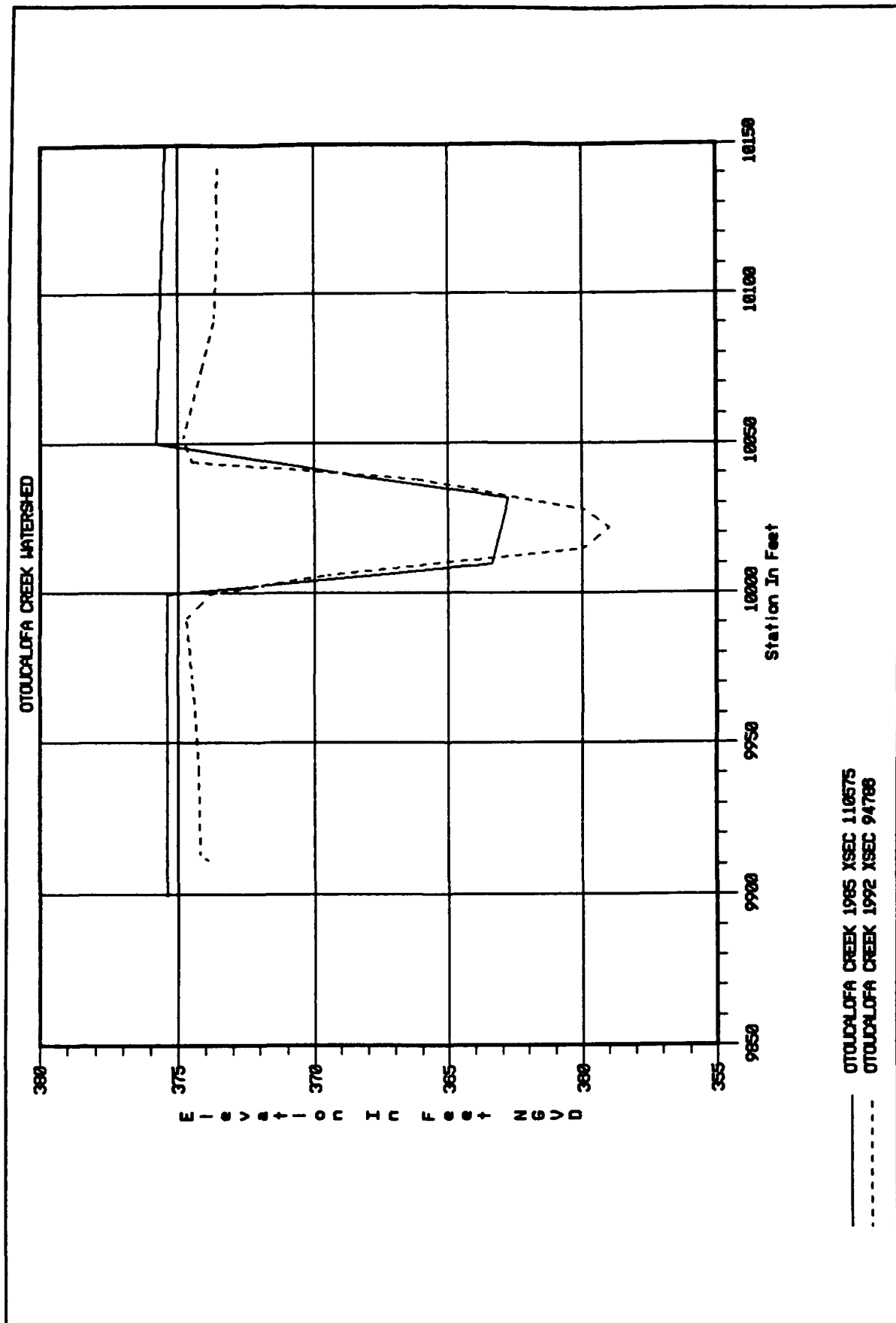
Plate C88



OTTOLOALFA CREEK WATERSHED



OTTOLOALFA CREEK 1985 XSEC 108200
 OTTOLOALFA CREEK 1992 XSEC 91716



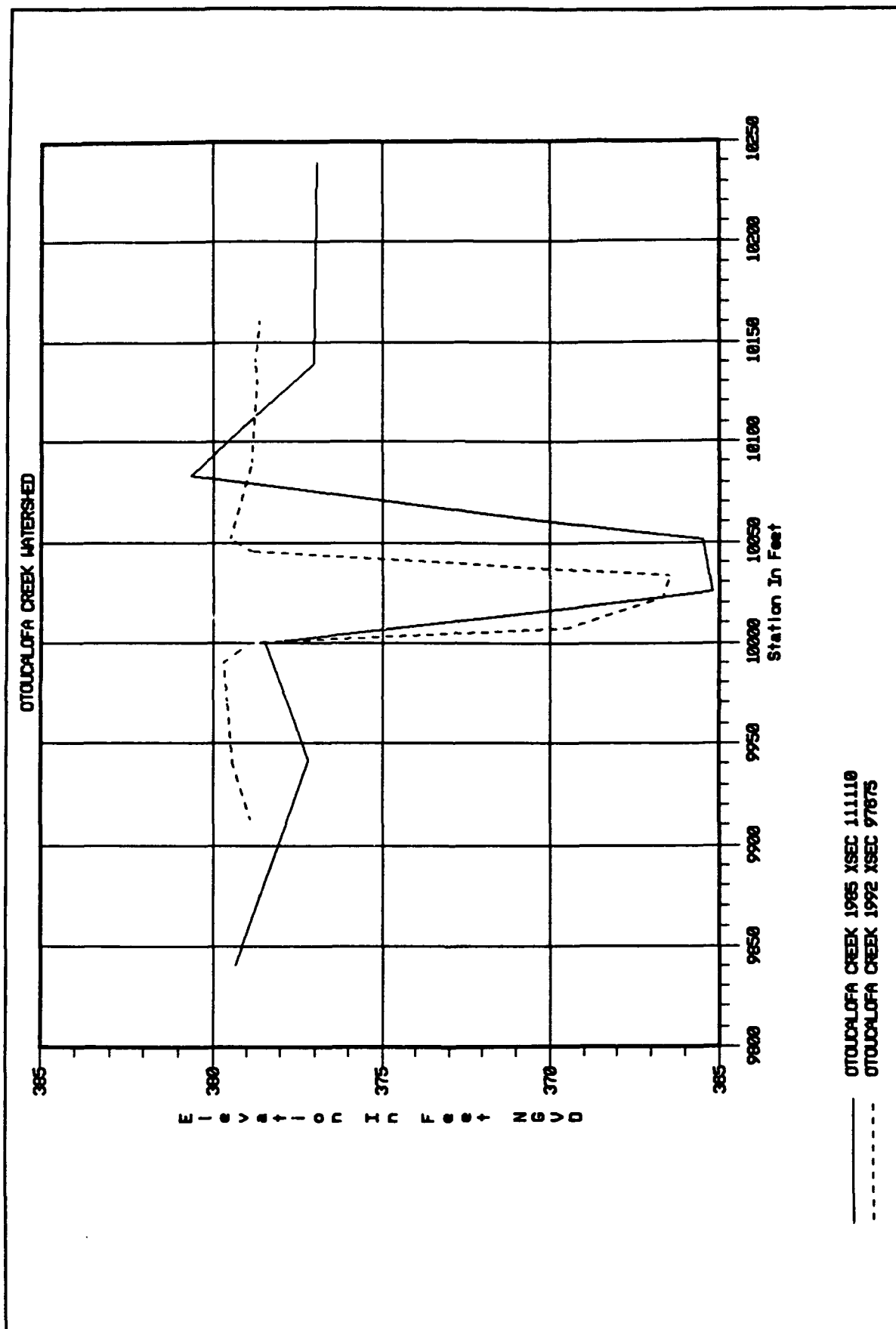
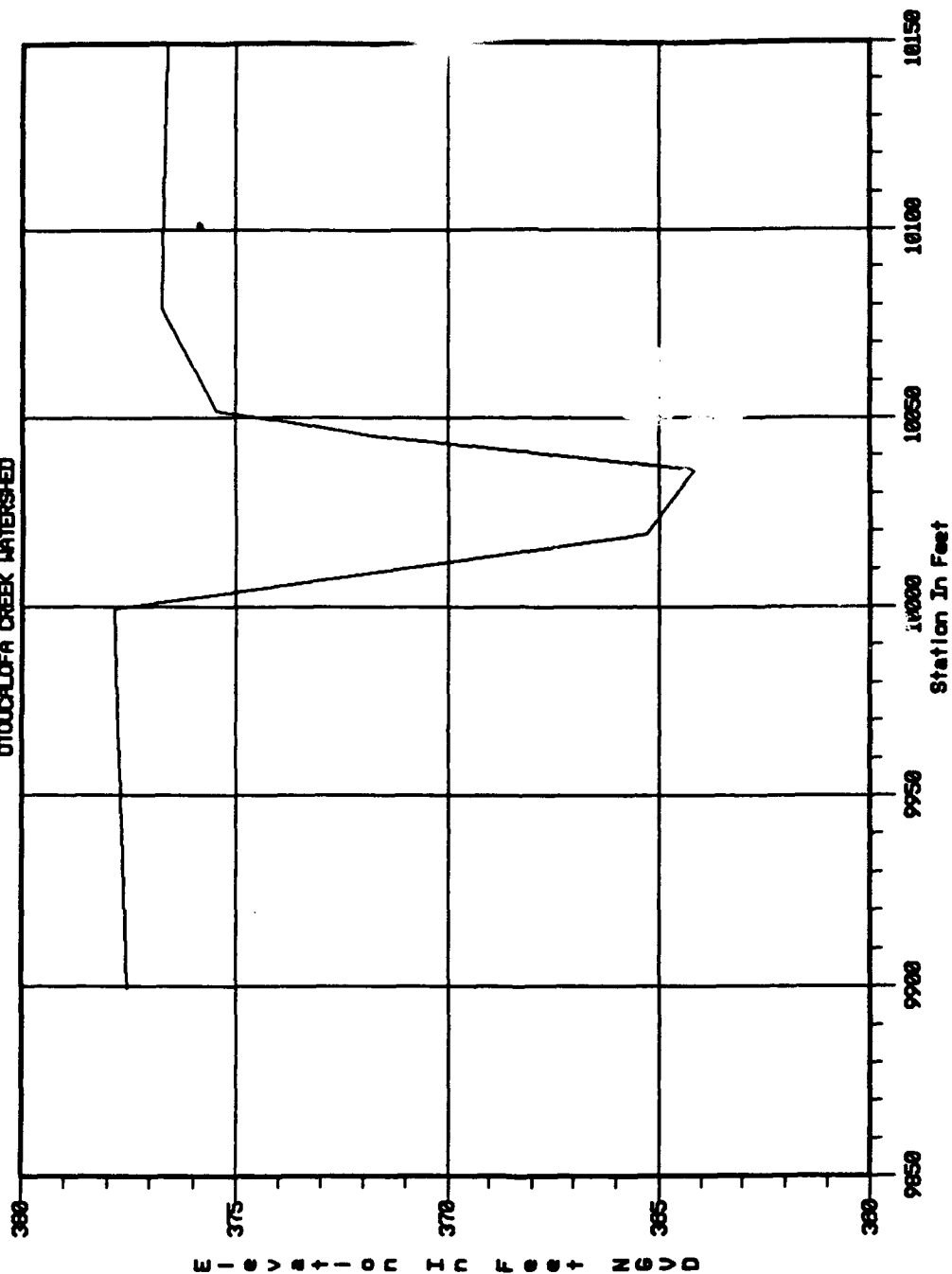


Plate C92

OTOUCHLOFA CREEK WATERSHED



OTOUCHLOFA CREEK 1965 XSEC 111525

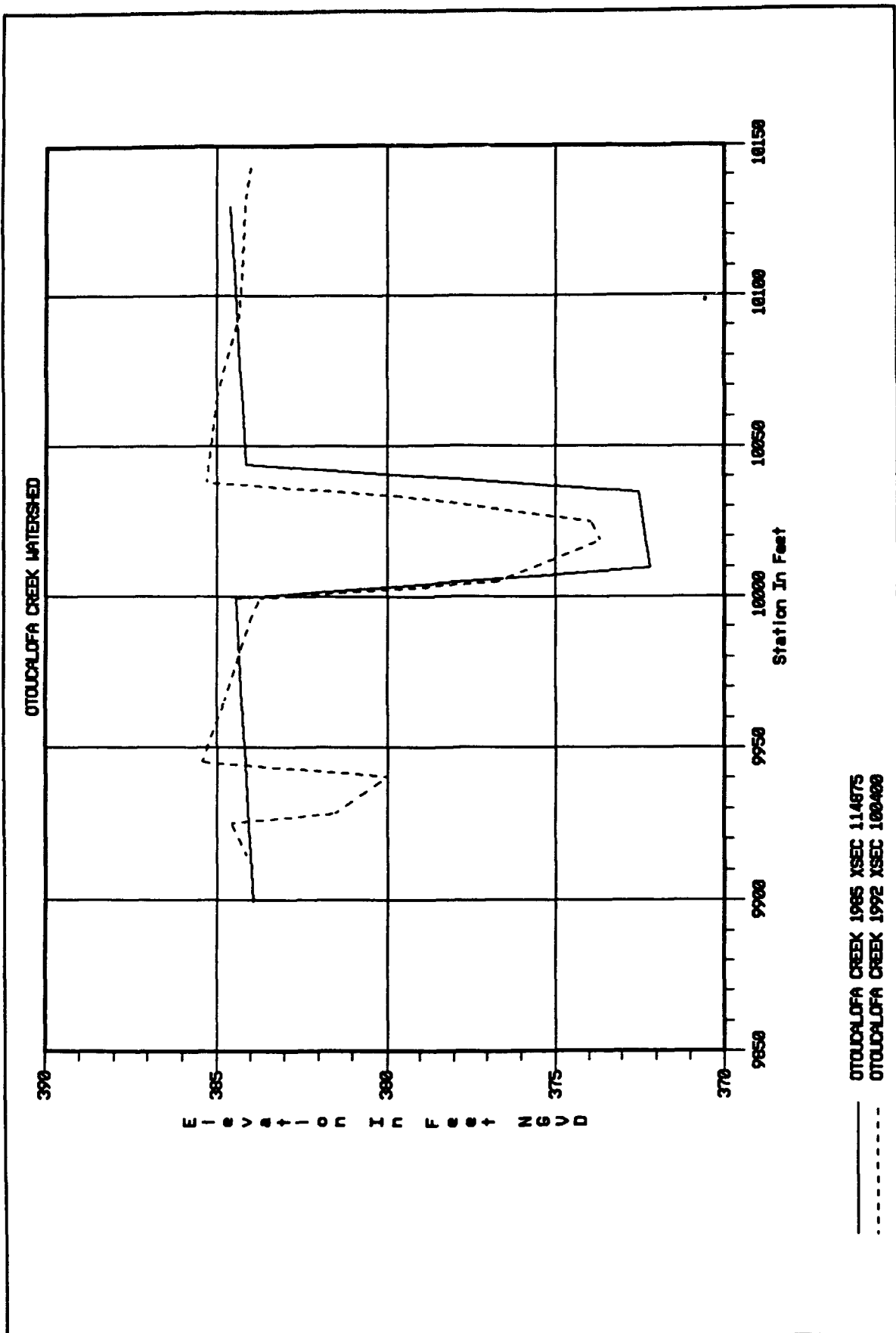


Plate C94

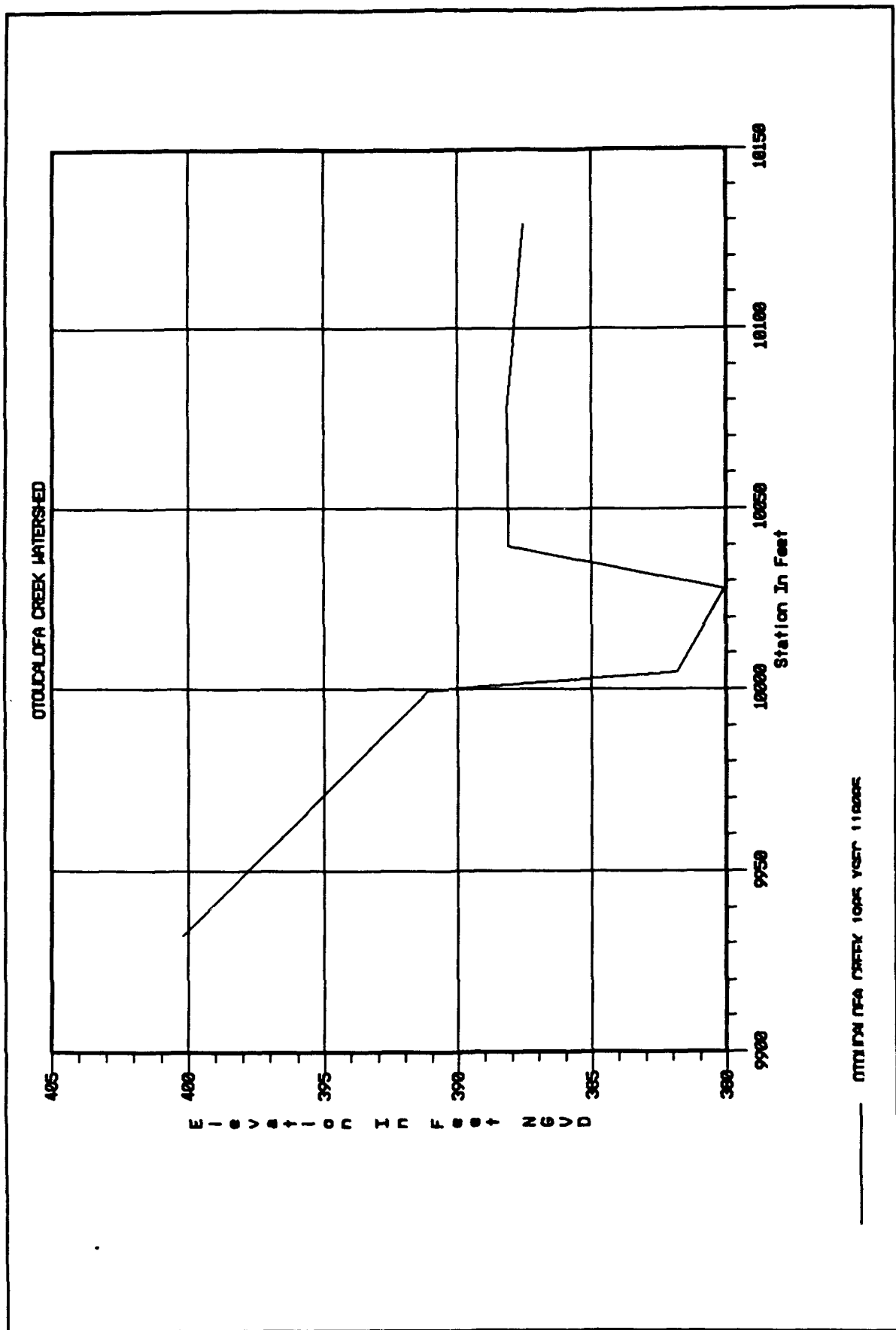


Plate C95

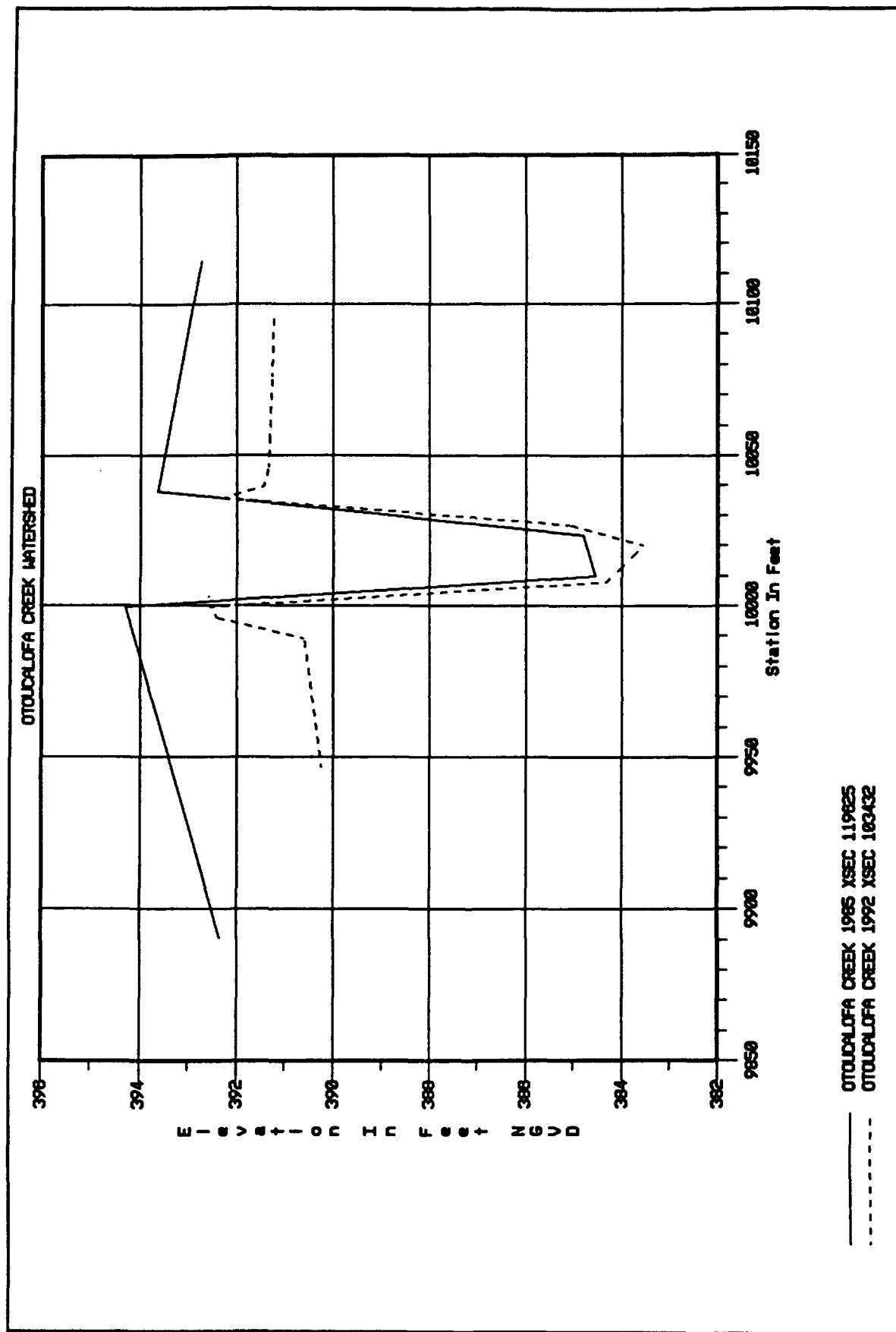
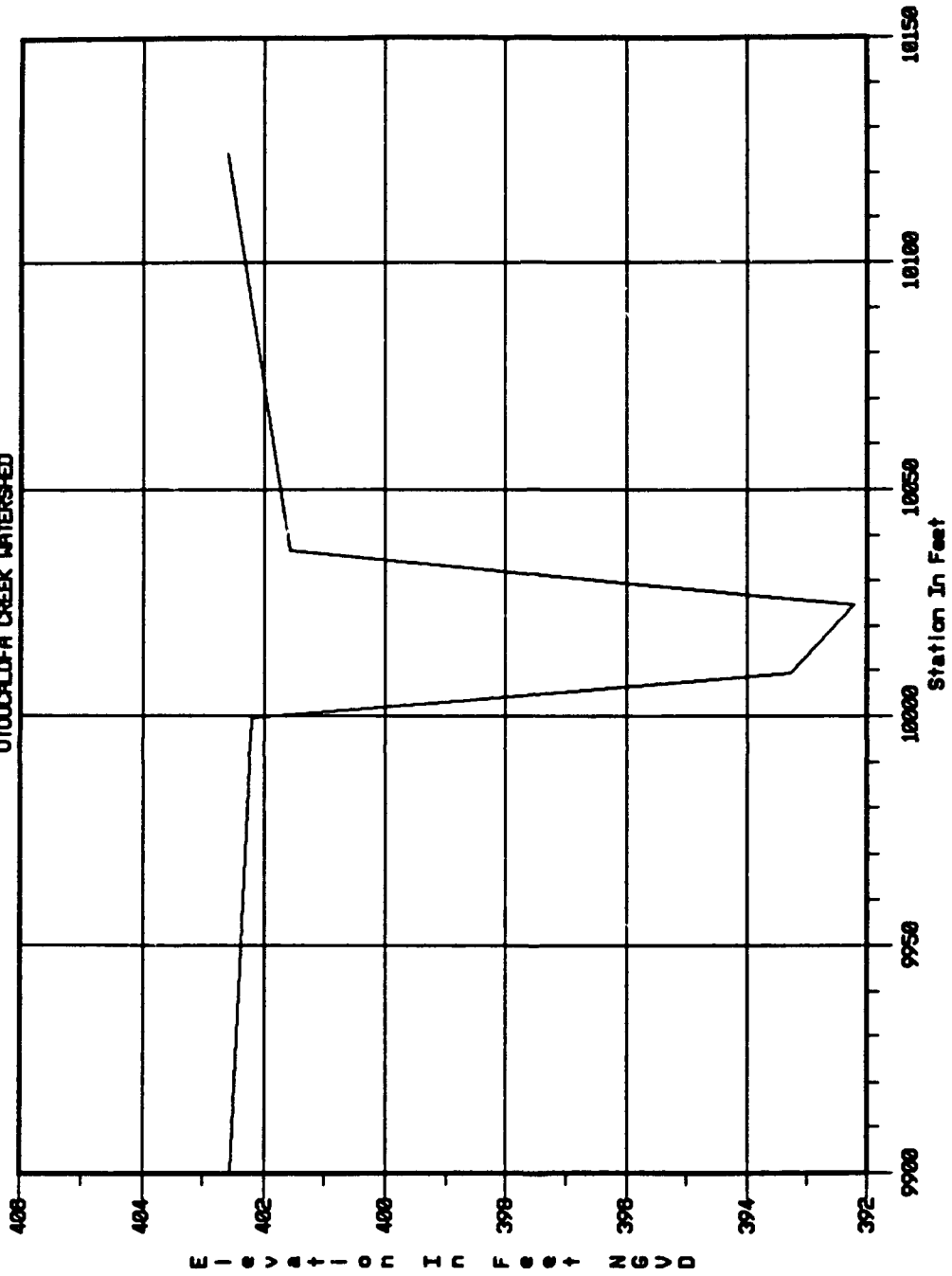


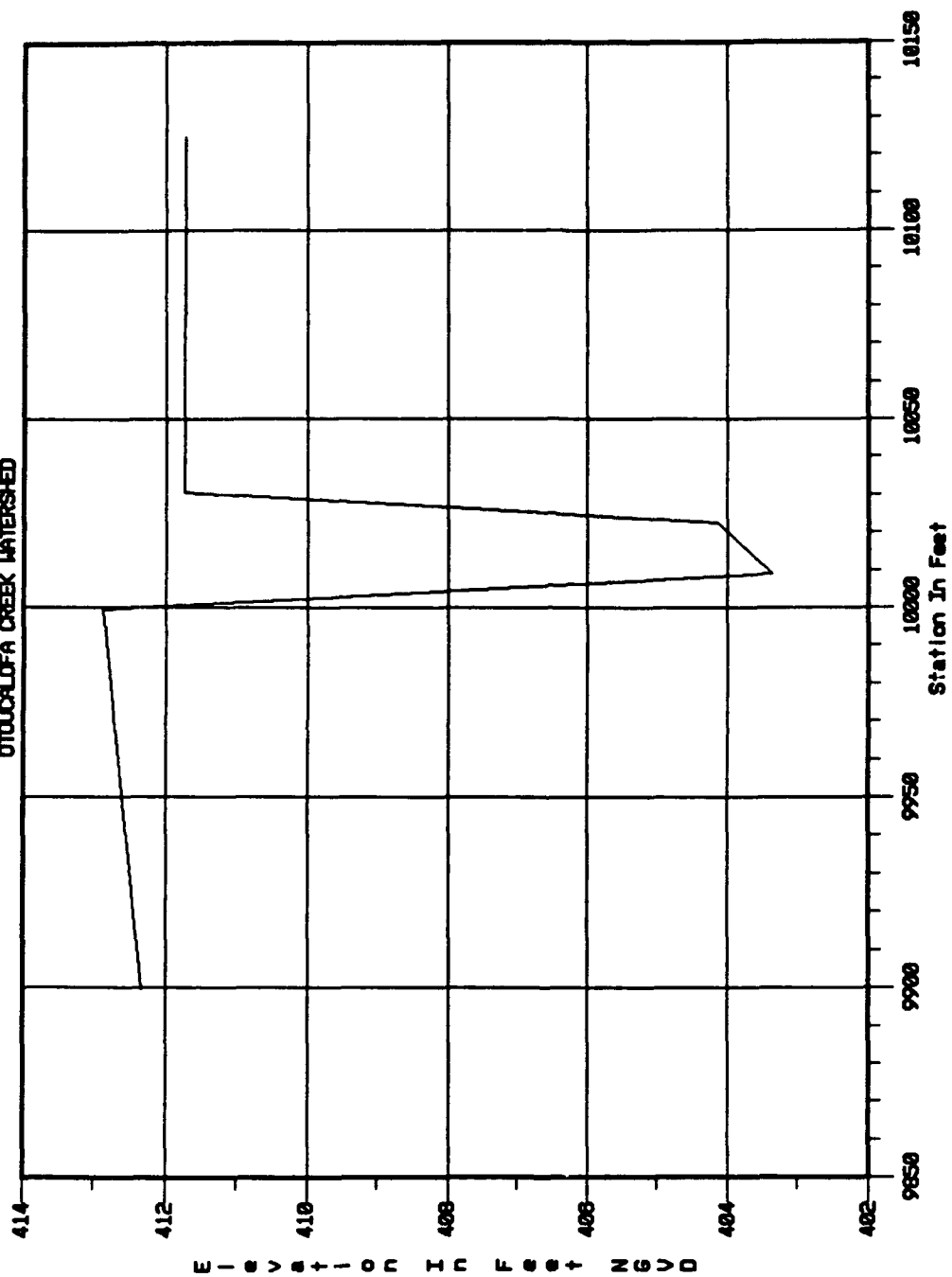
Plate C96

OTOUALLOFA CREEK WATERSHED



OTOUALLOFA CREEK 1985 XSEC 123210

OTTOLOLOFA CREEK WATERSHED



OTTOLOLOFA CREEK 1965 XSEC 126735

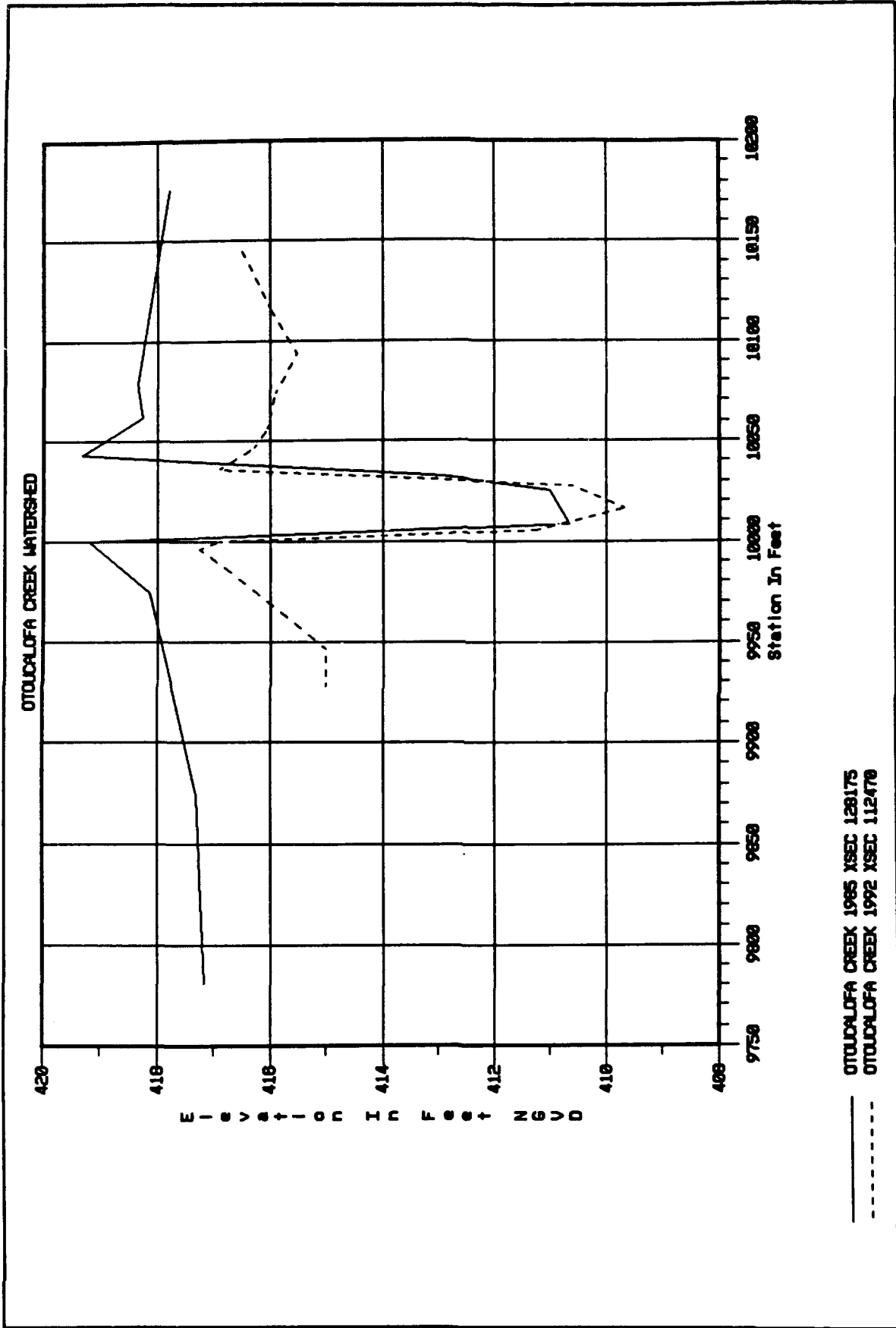
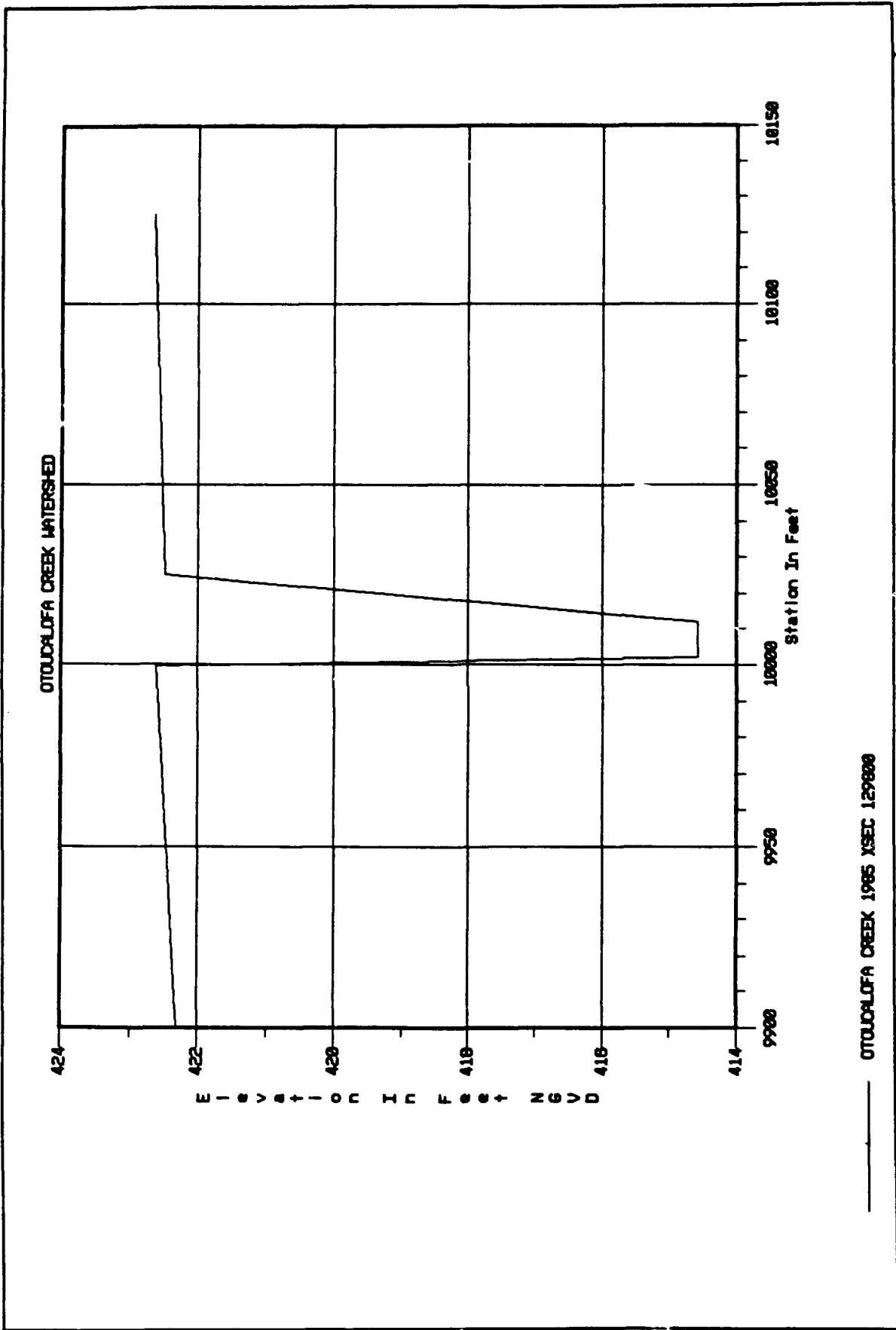
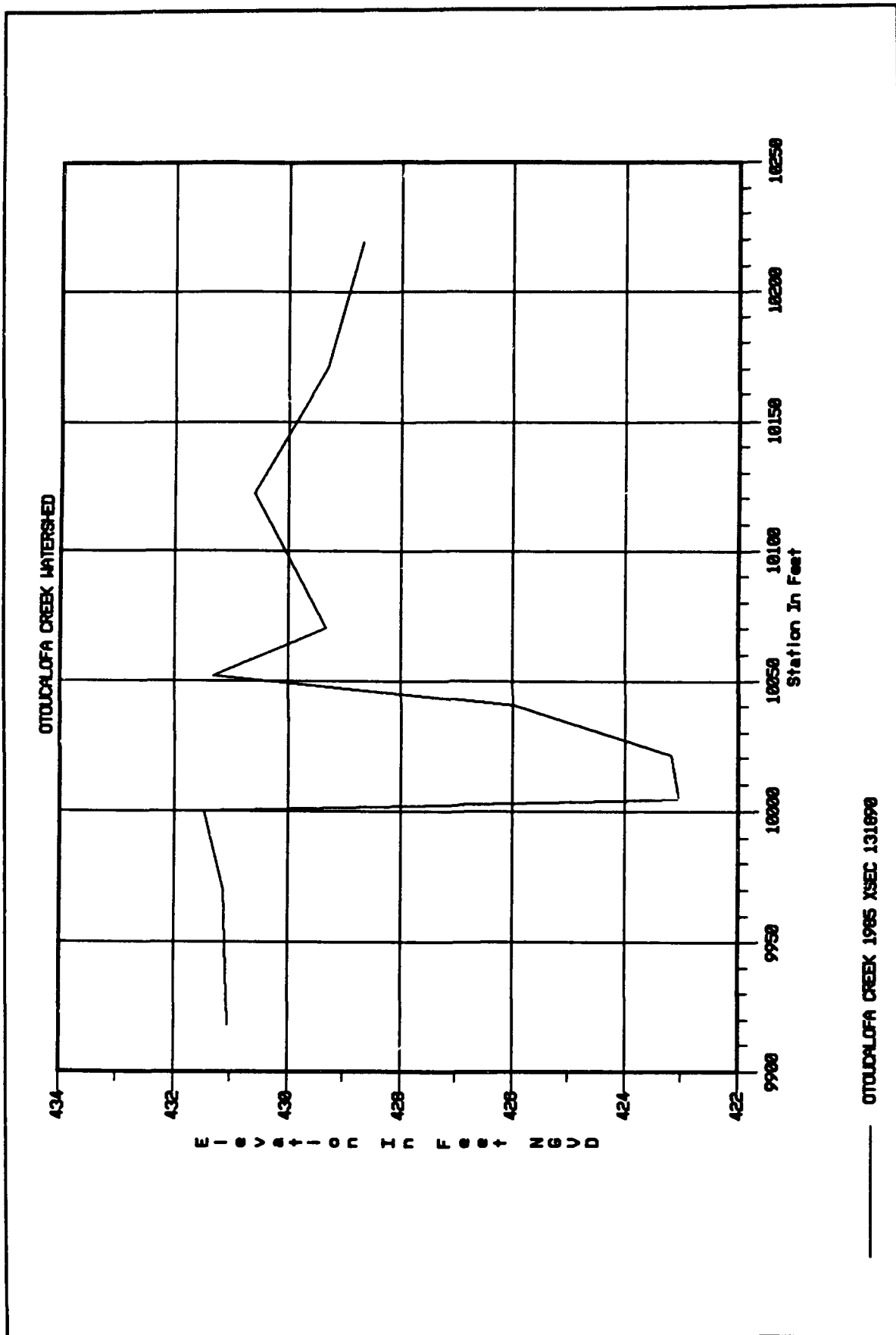
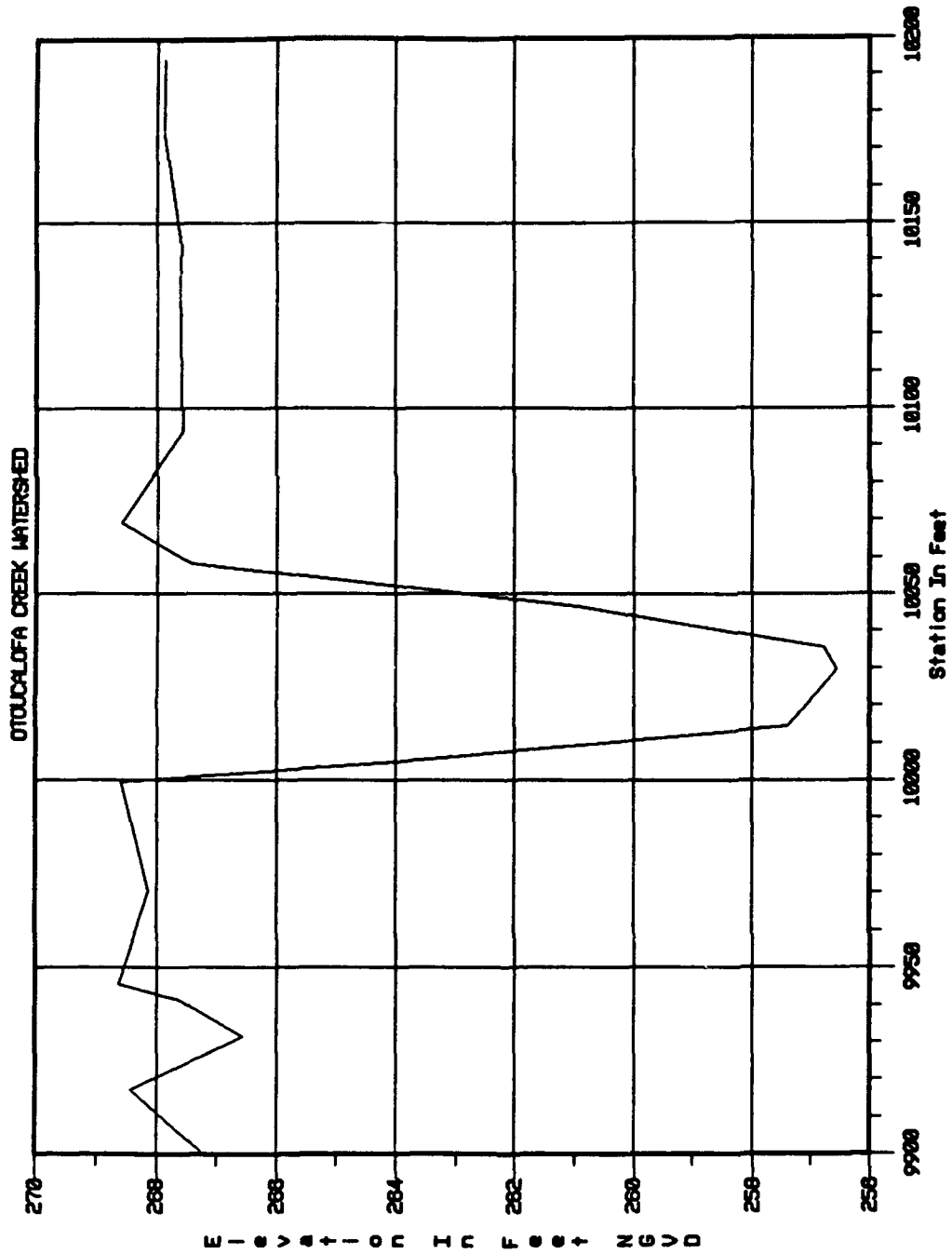


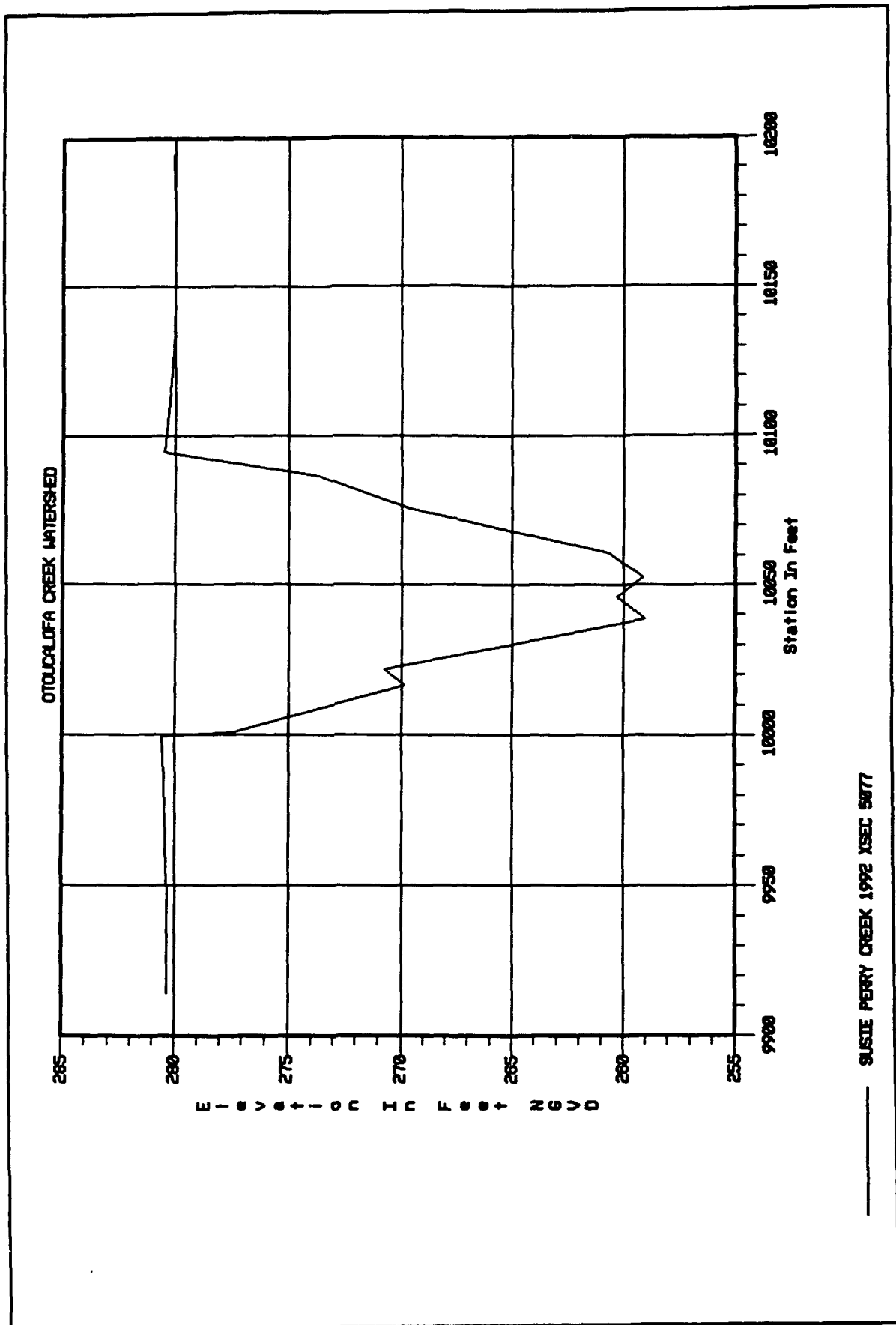
Plate C100

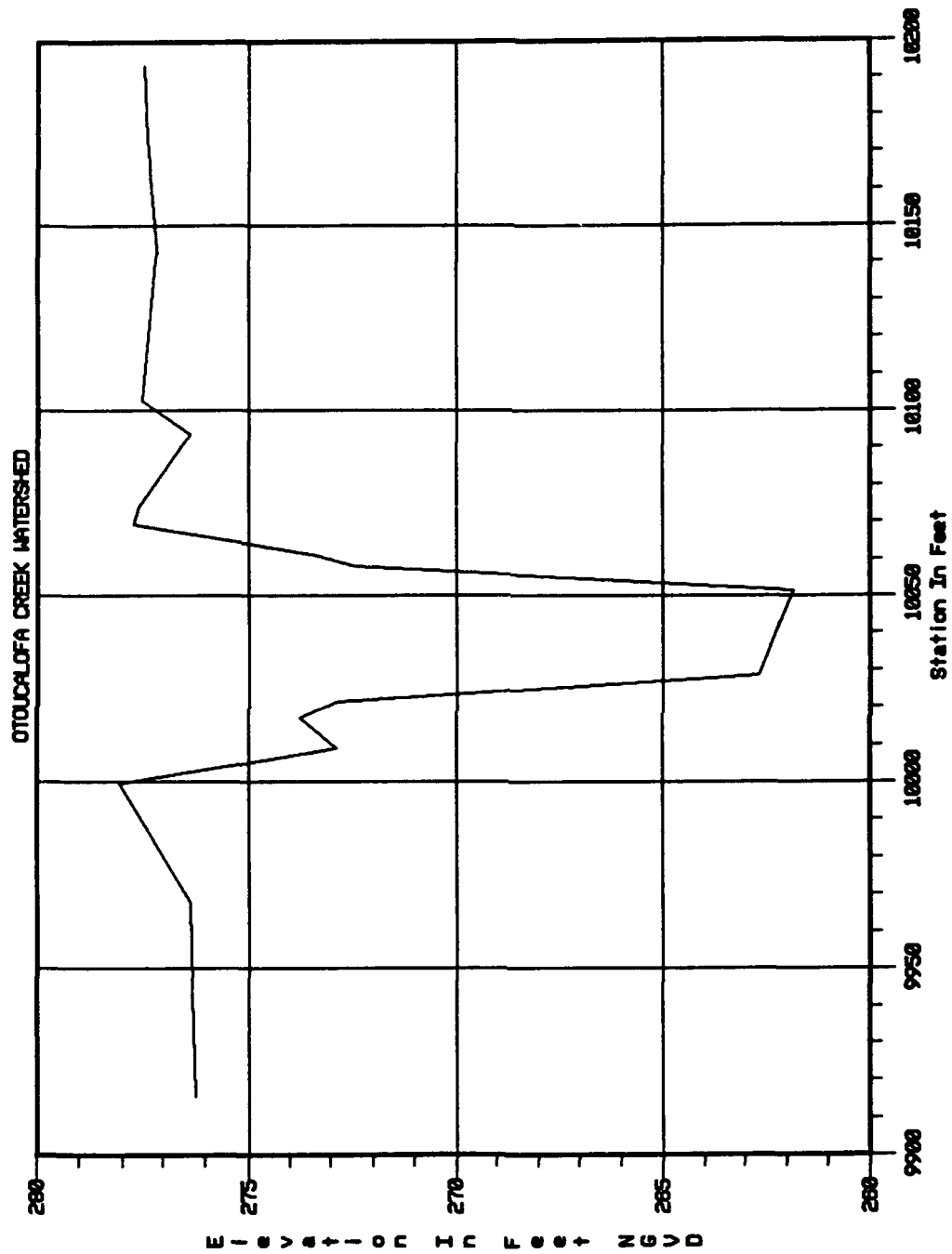






— SUSIE PERRY CREEK 1992 XSEC 3000





SUSIE PERRY CREEK 1992 XSEC 0000

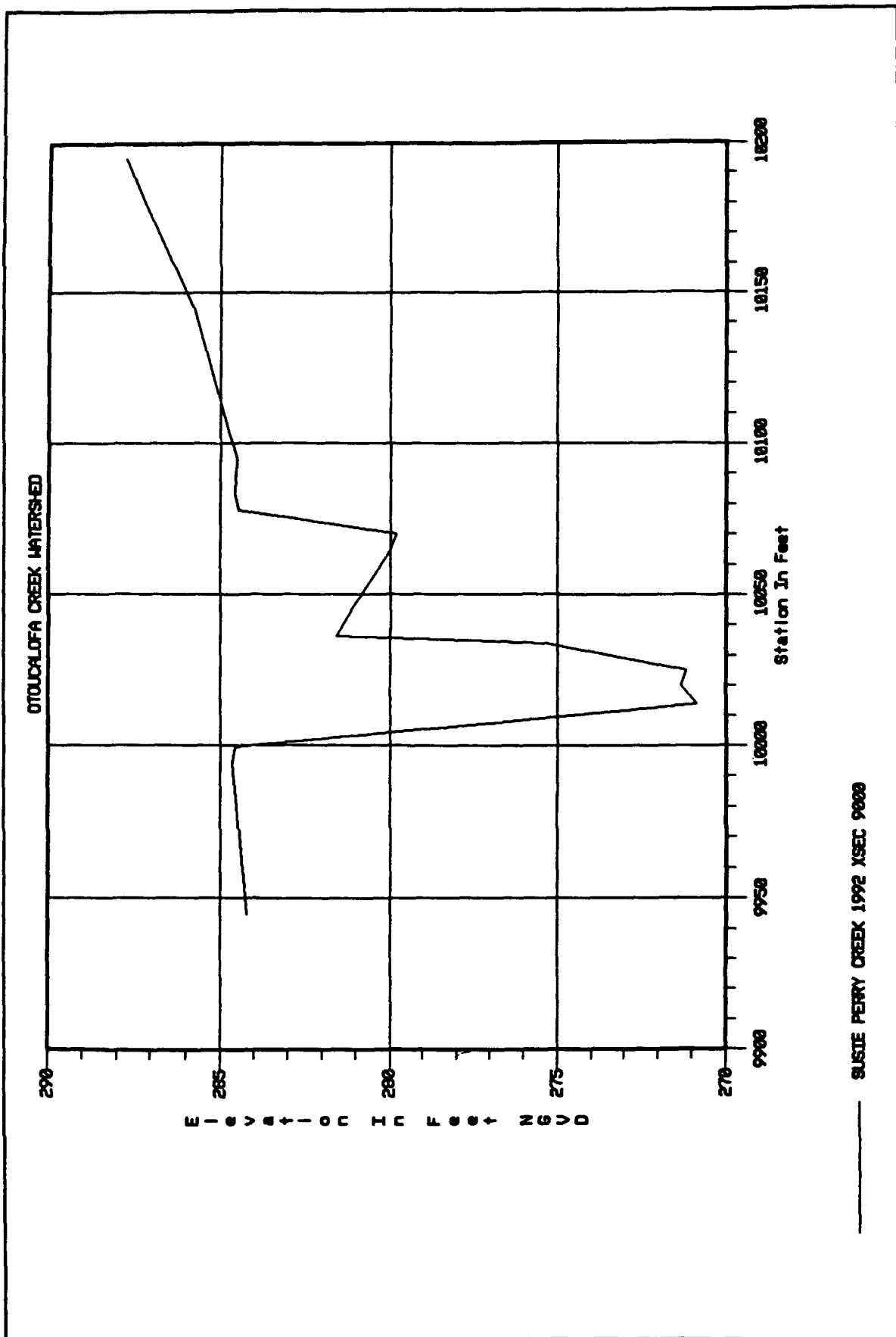
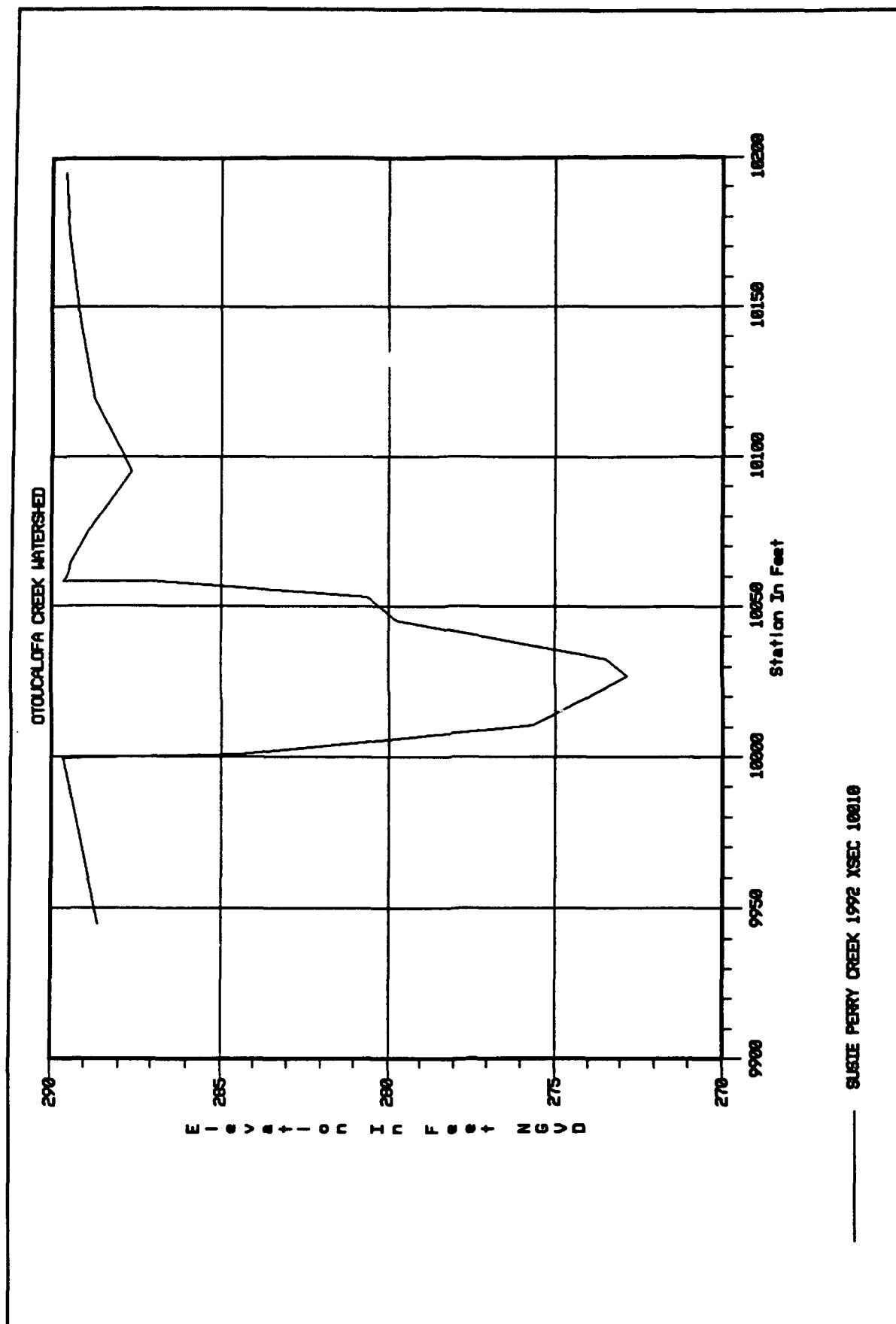


Plate C106



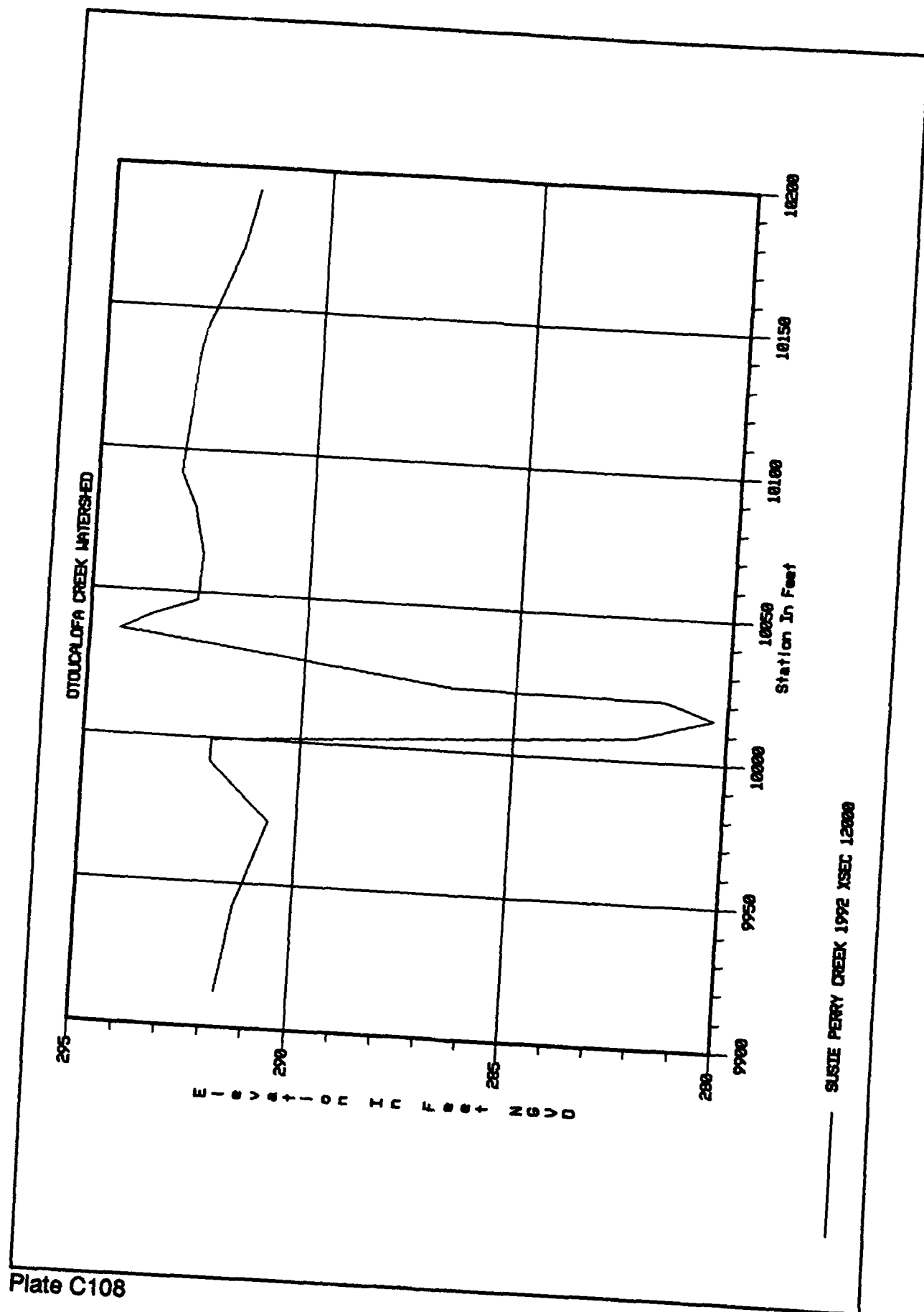
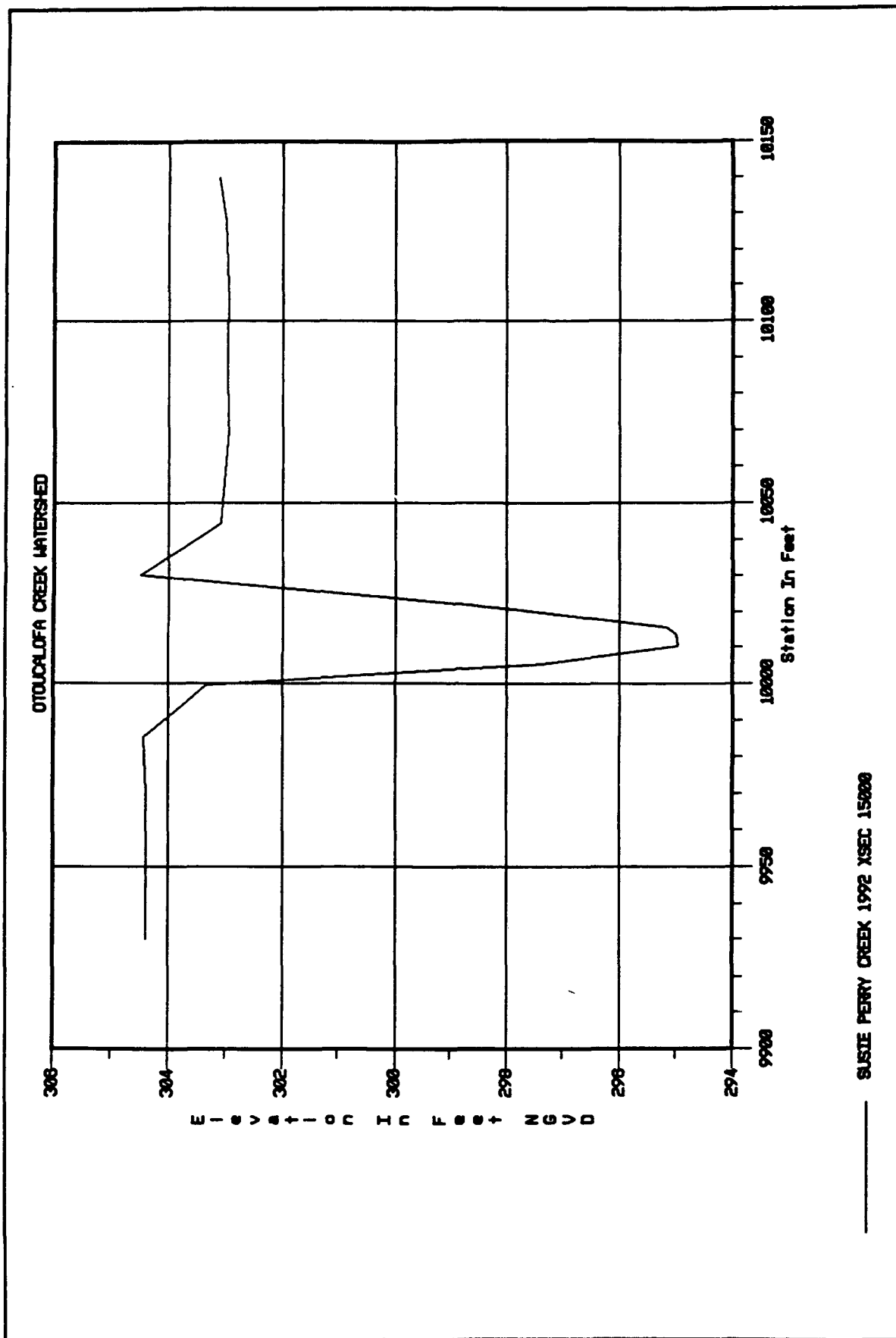


Plate C108



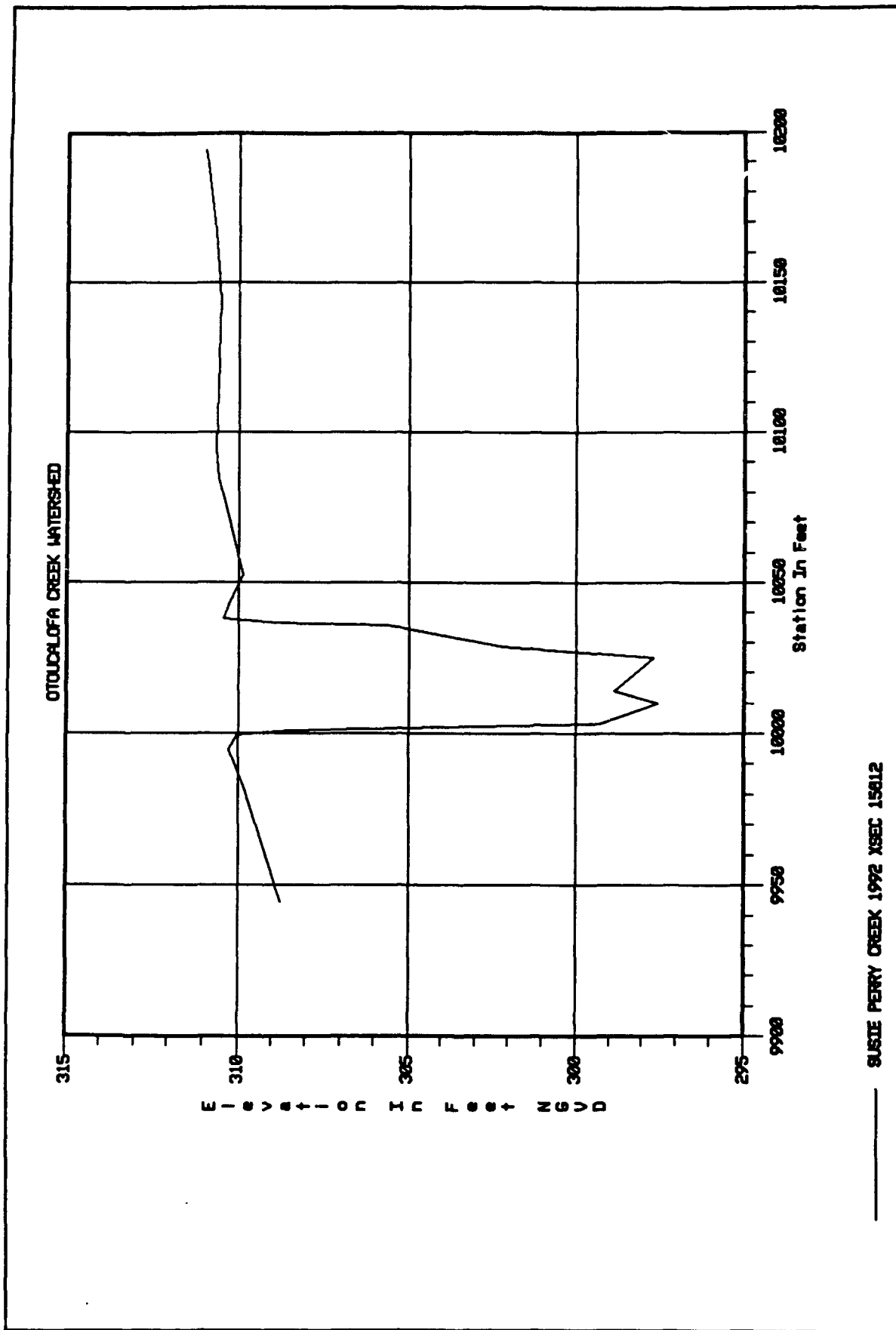
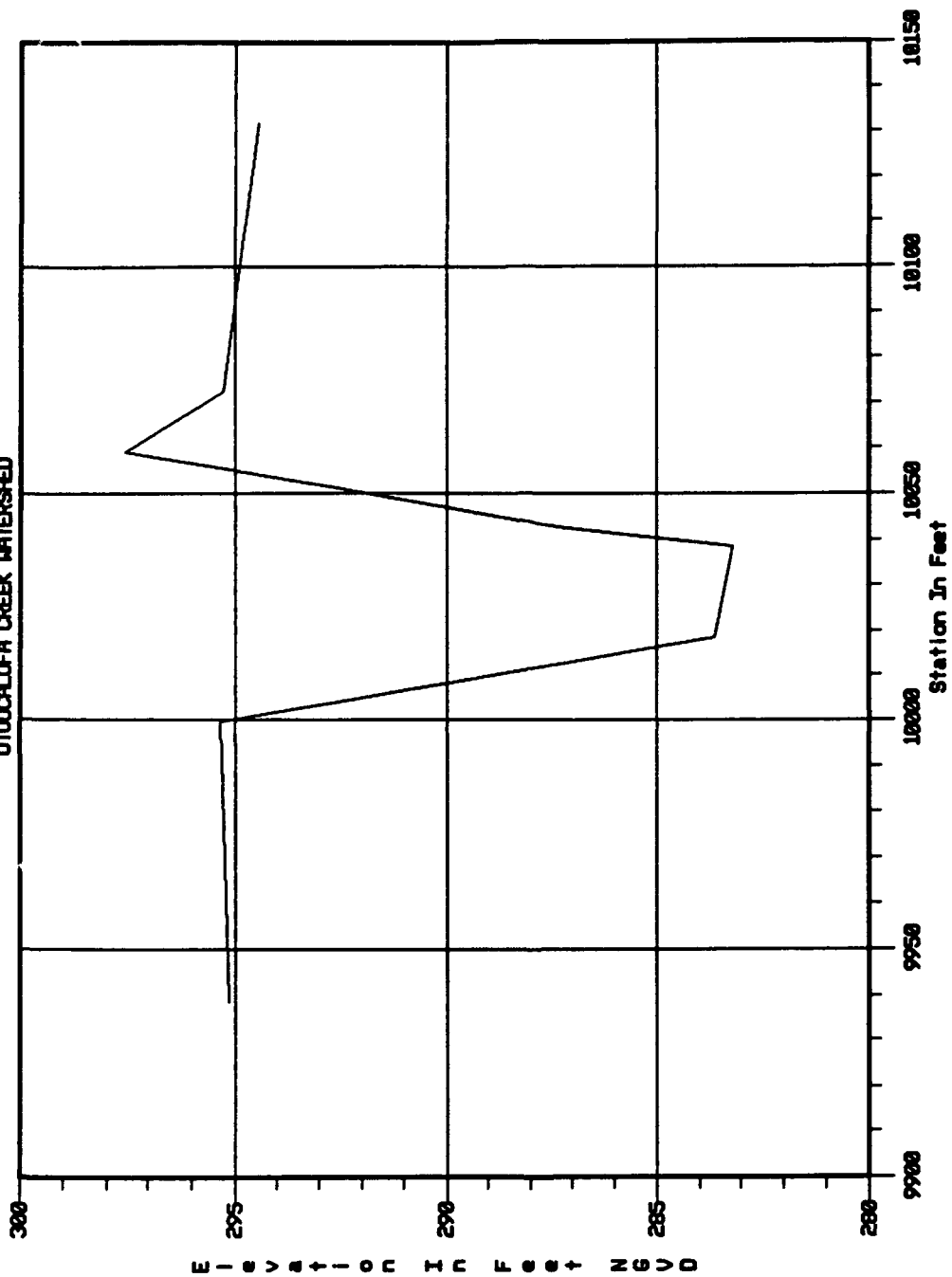


Plate C110

OTOLCALOFA CREEK WATERSHED



WEST JOHNSON CREEK 1965 XSEC 1885

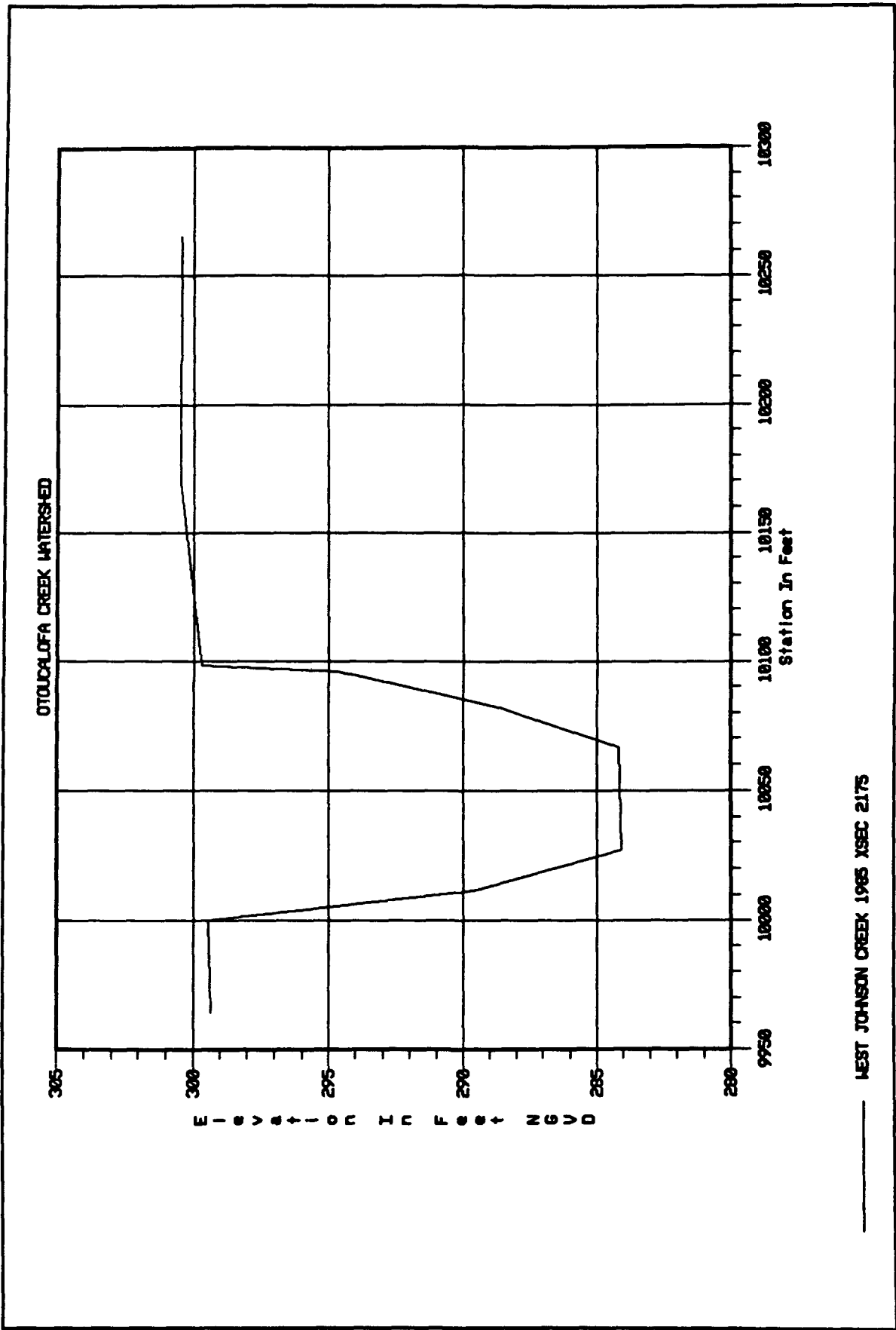
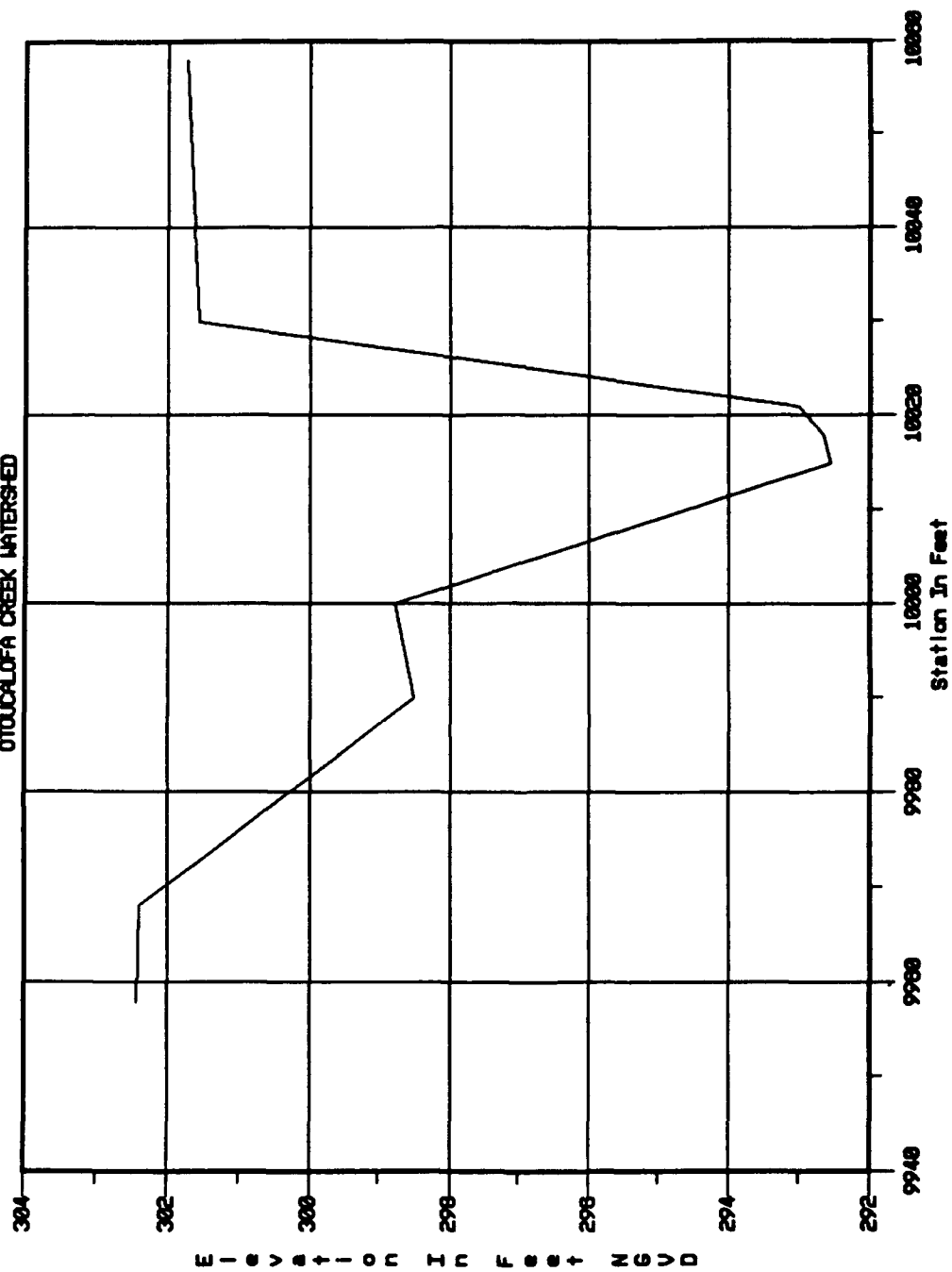


Plate C112

OTOUCALOFA CREEK WATERSHED



WEST JOHNSON CREEK 1985 XSEC 3800

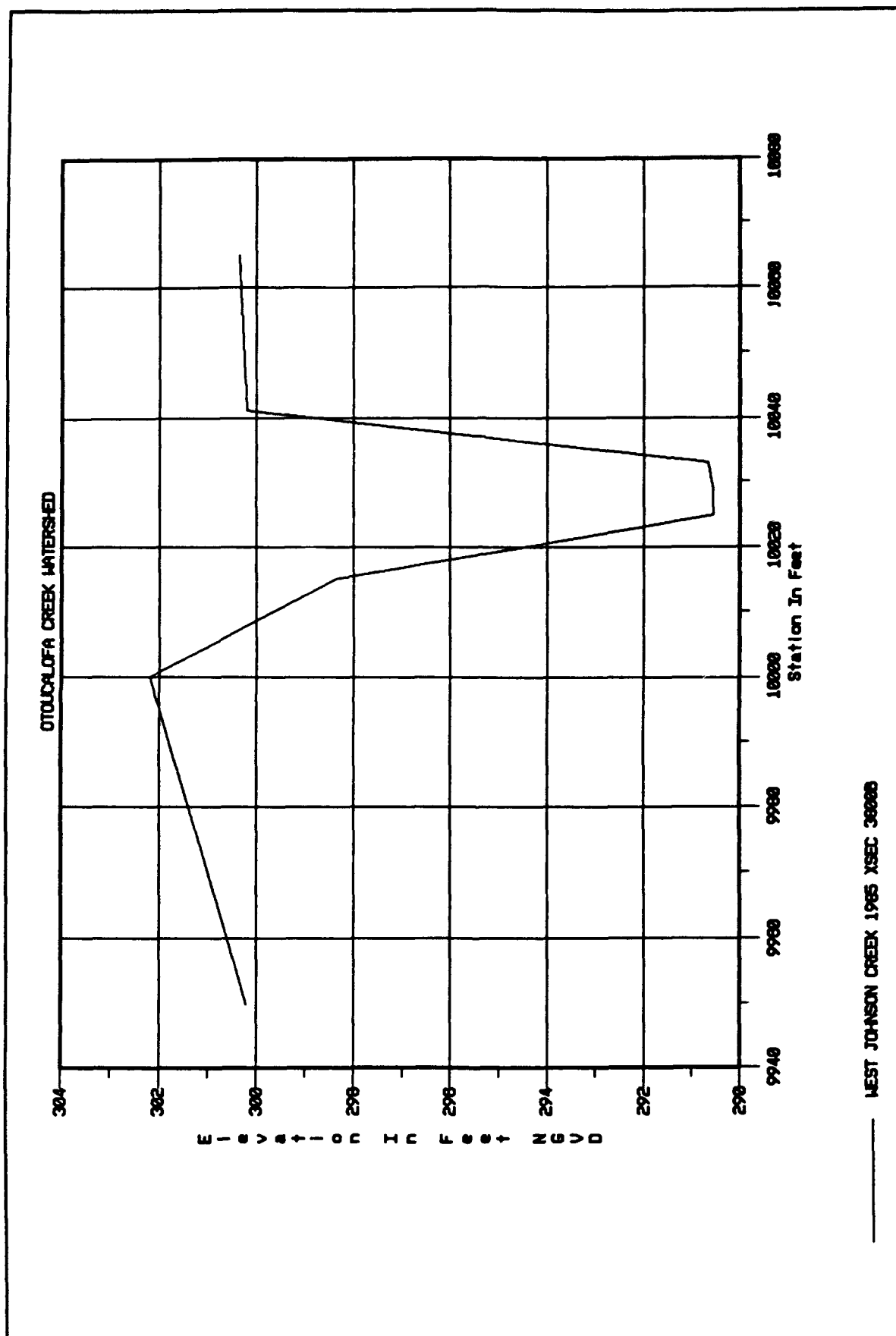
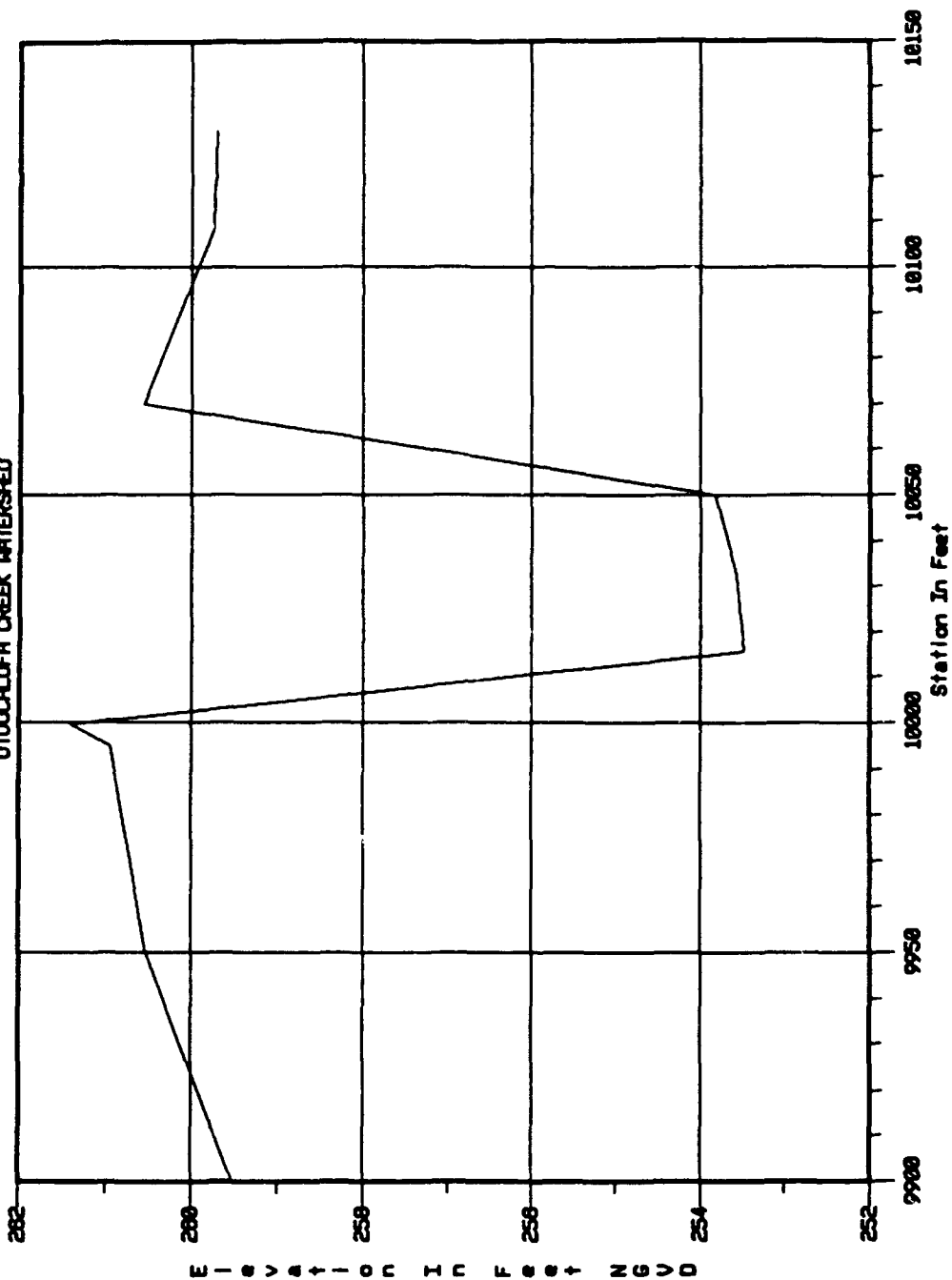


Plate C114

OTOLUALOFA CREEK WATERSHED



JOHNSON CREEK 1985 XSEC 1250

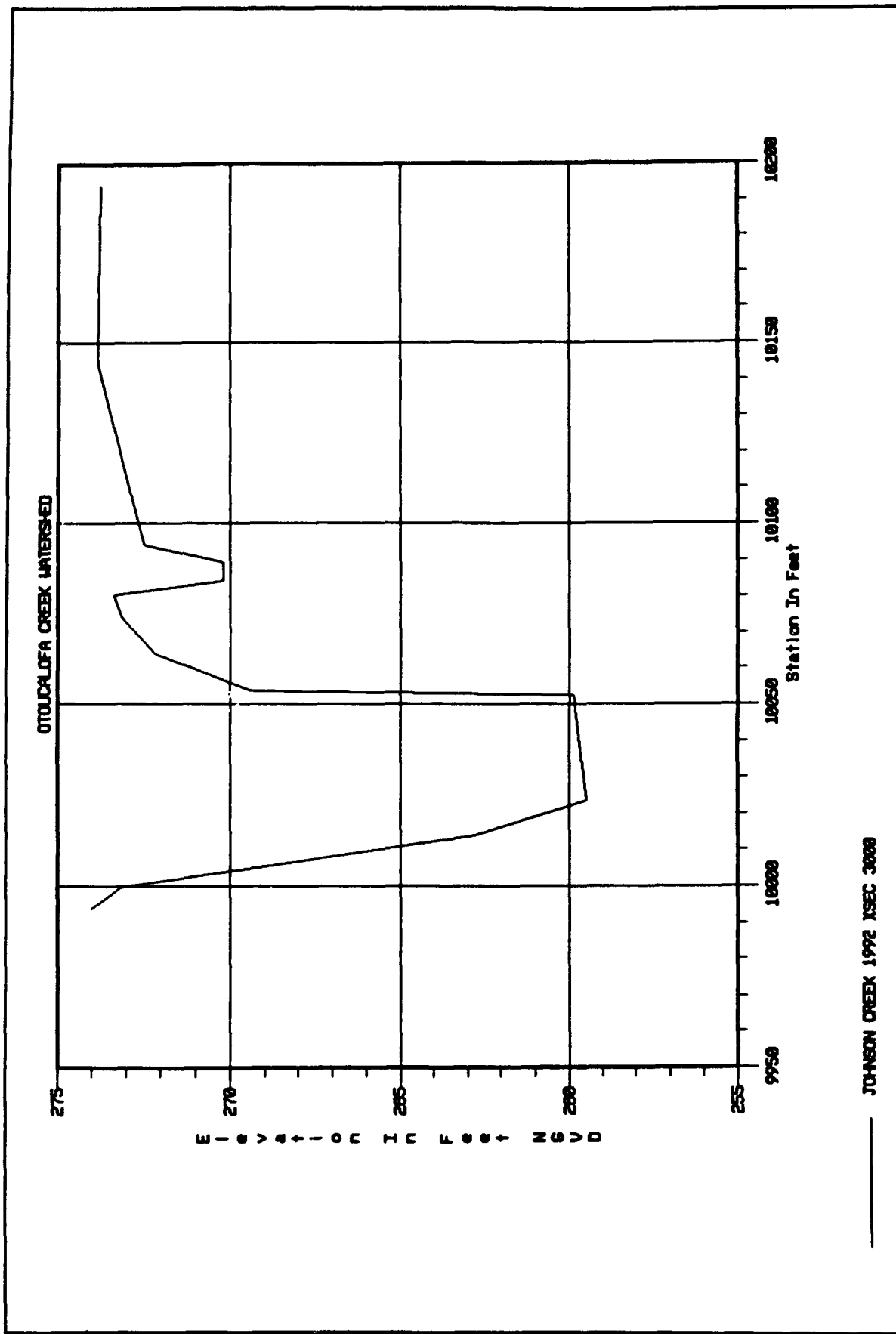
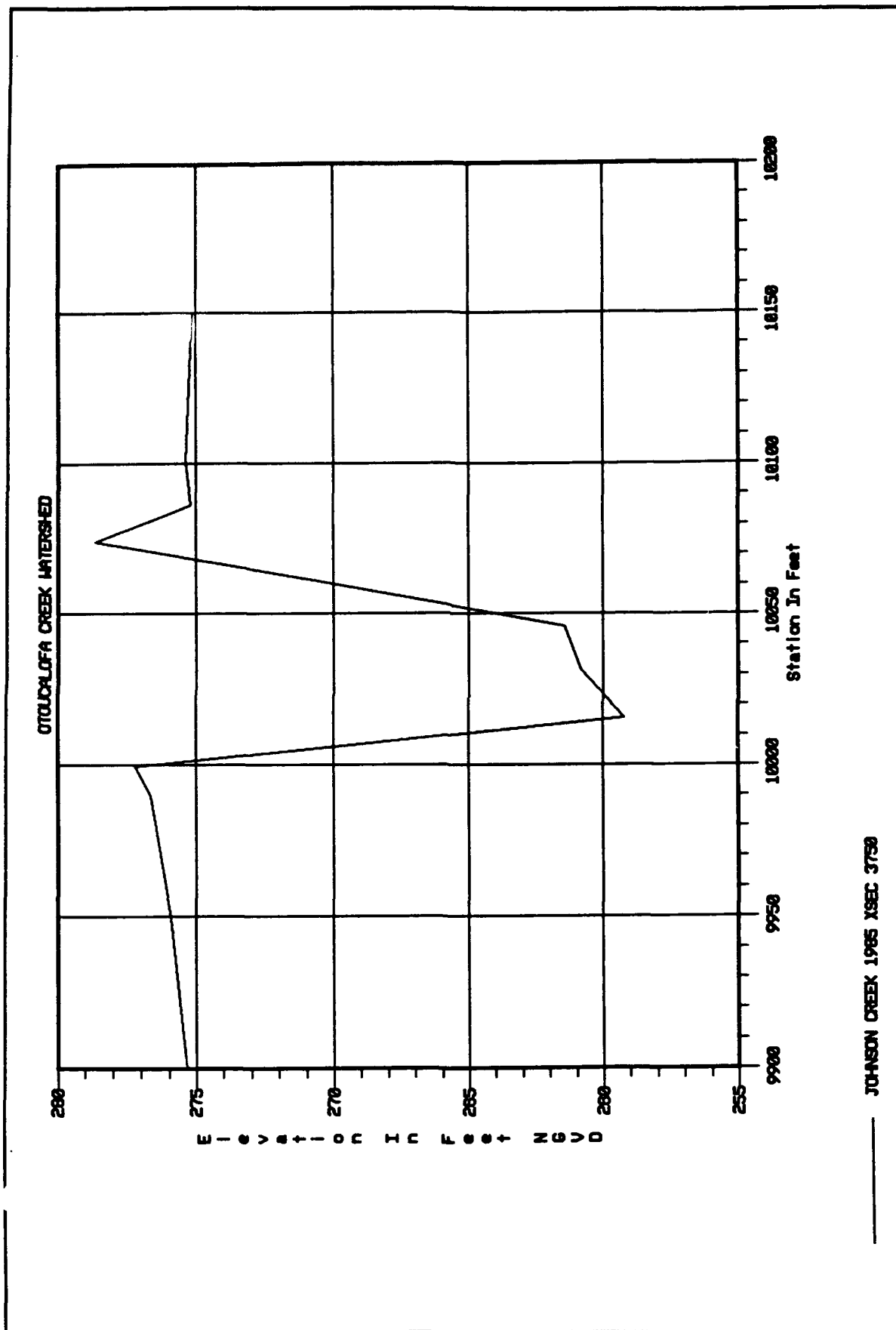


Plate C116



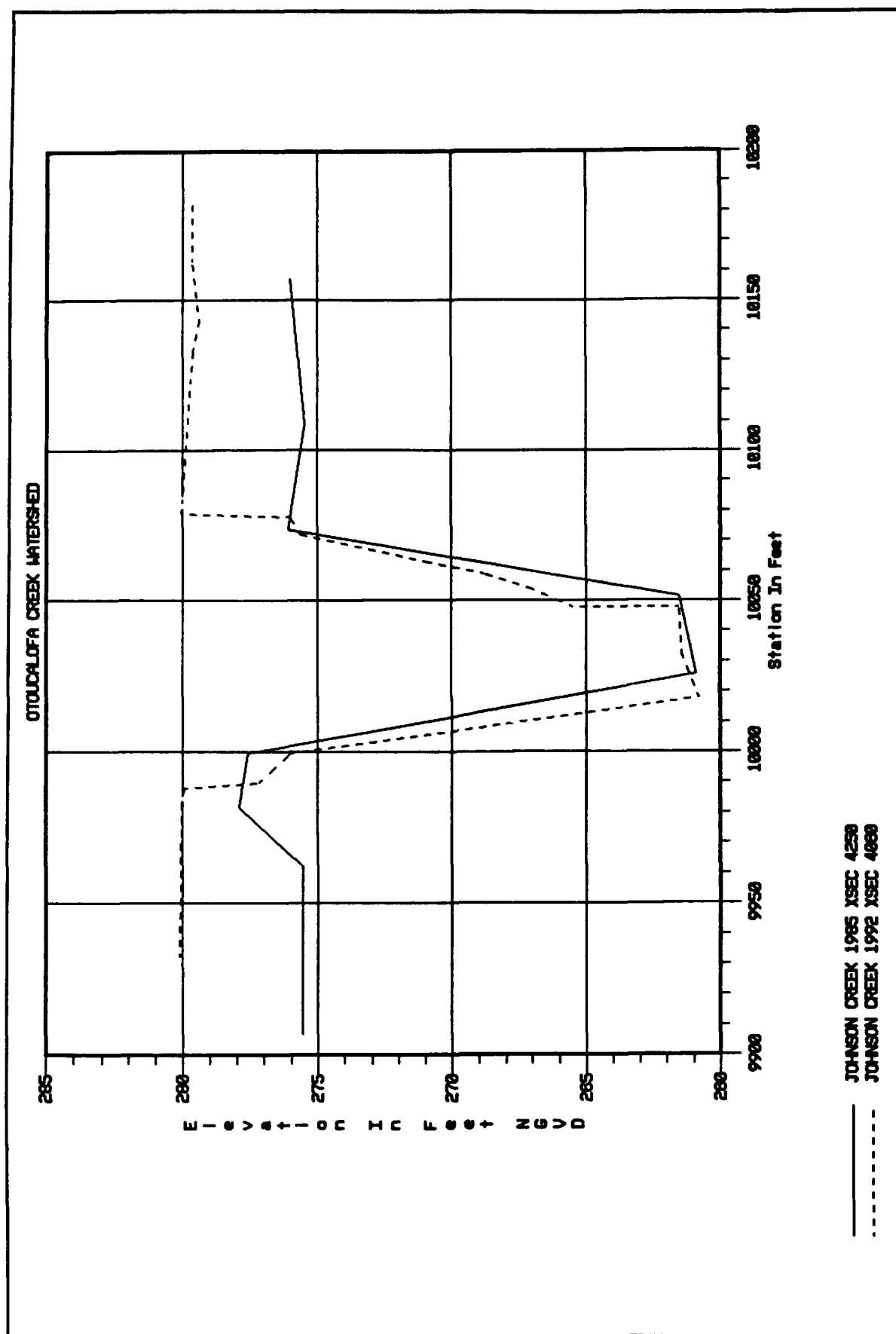
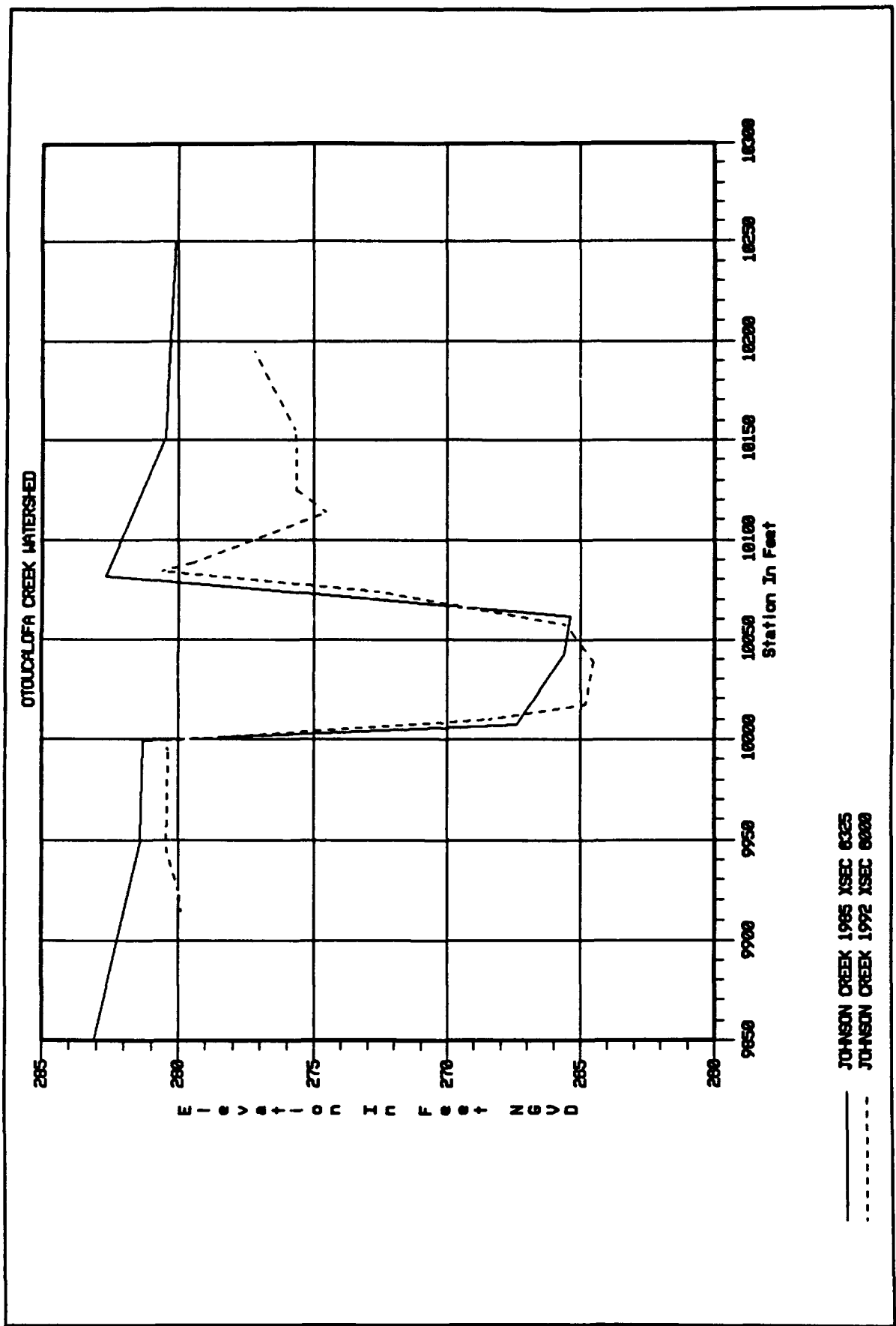


Plate C118



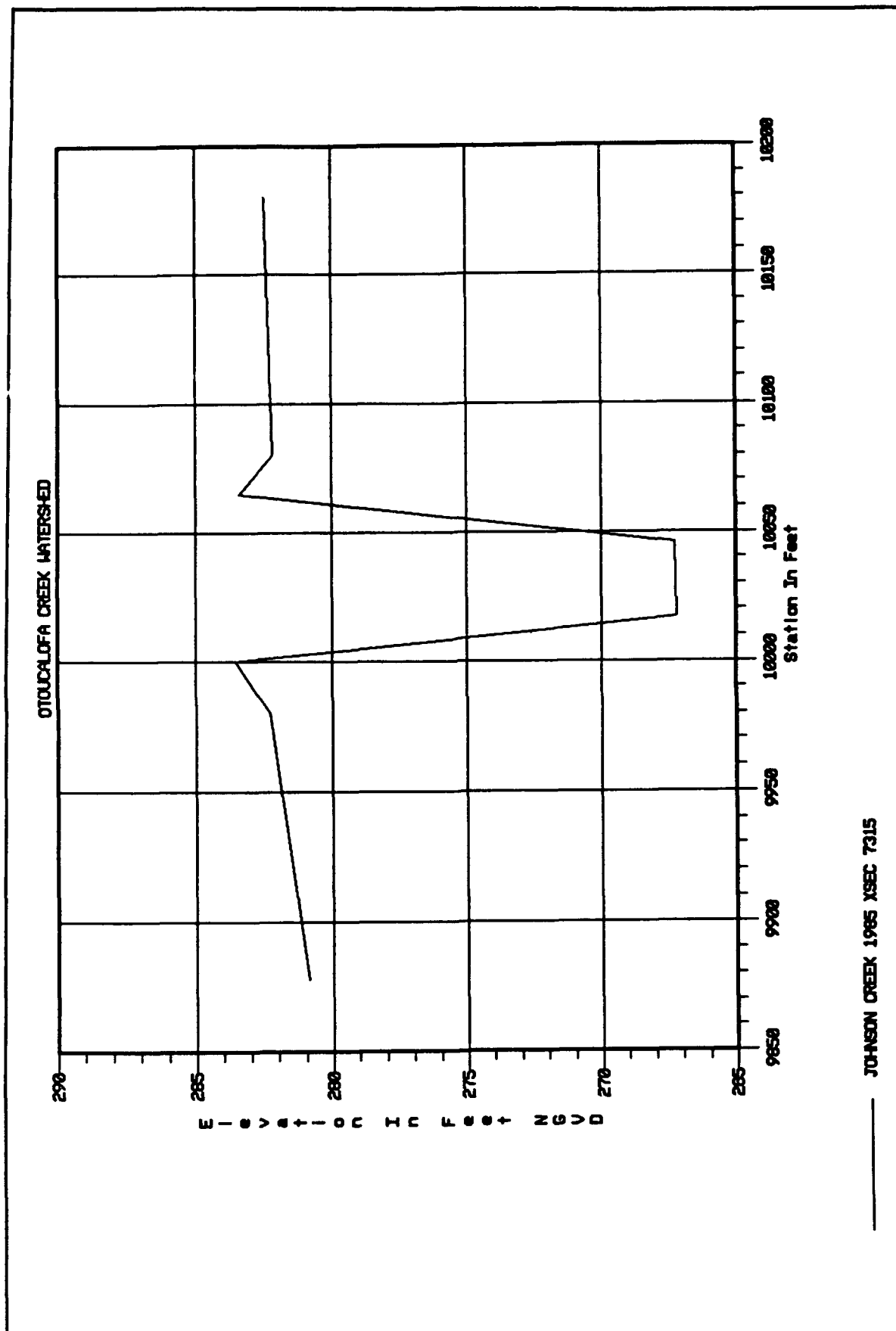
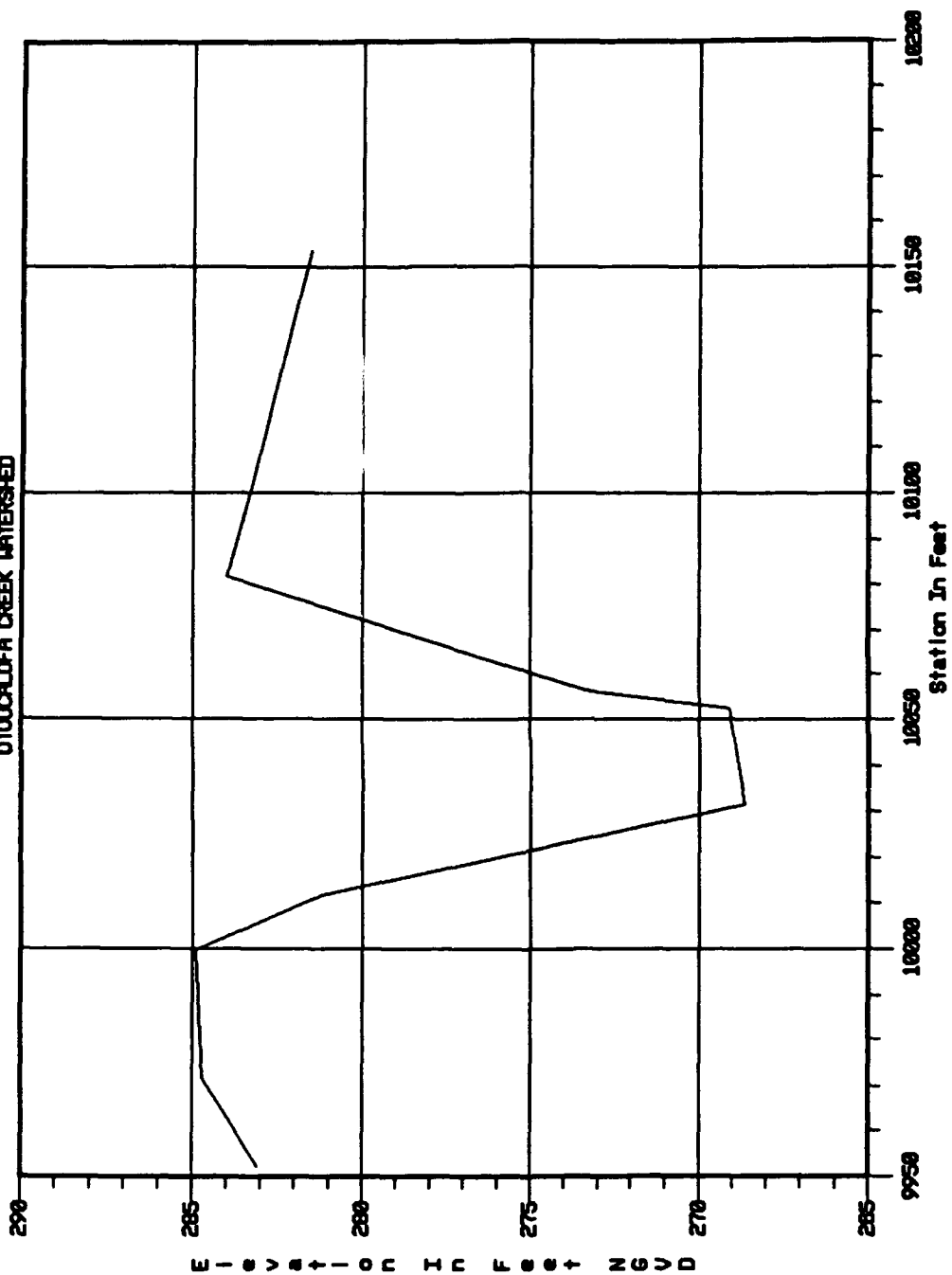


Plate C120

OTOLUCHLOFA CREEK WATERSHED



JOHNSON CREEK 1965 XSEC 7900

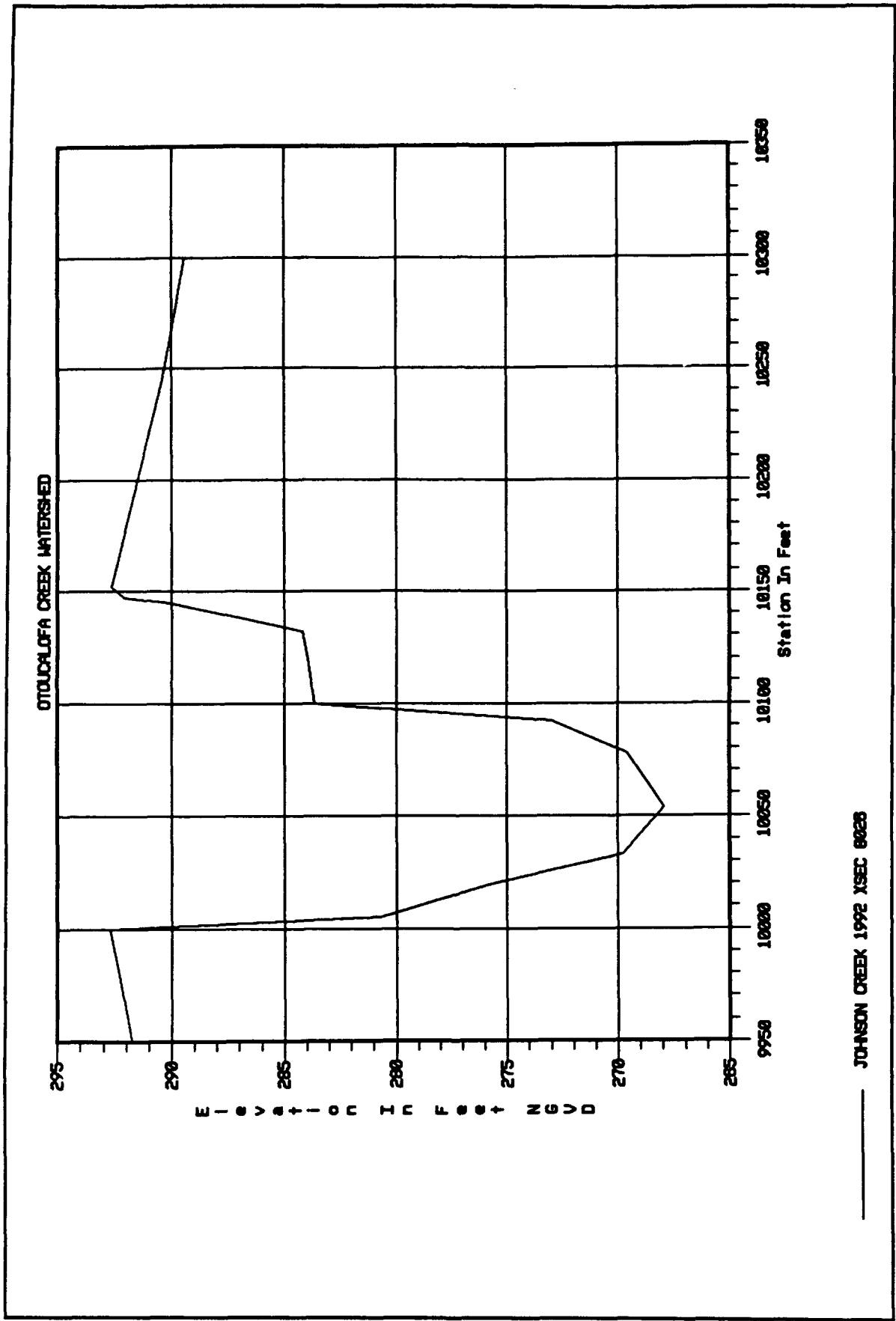
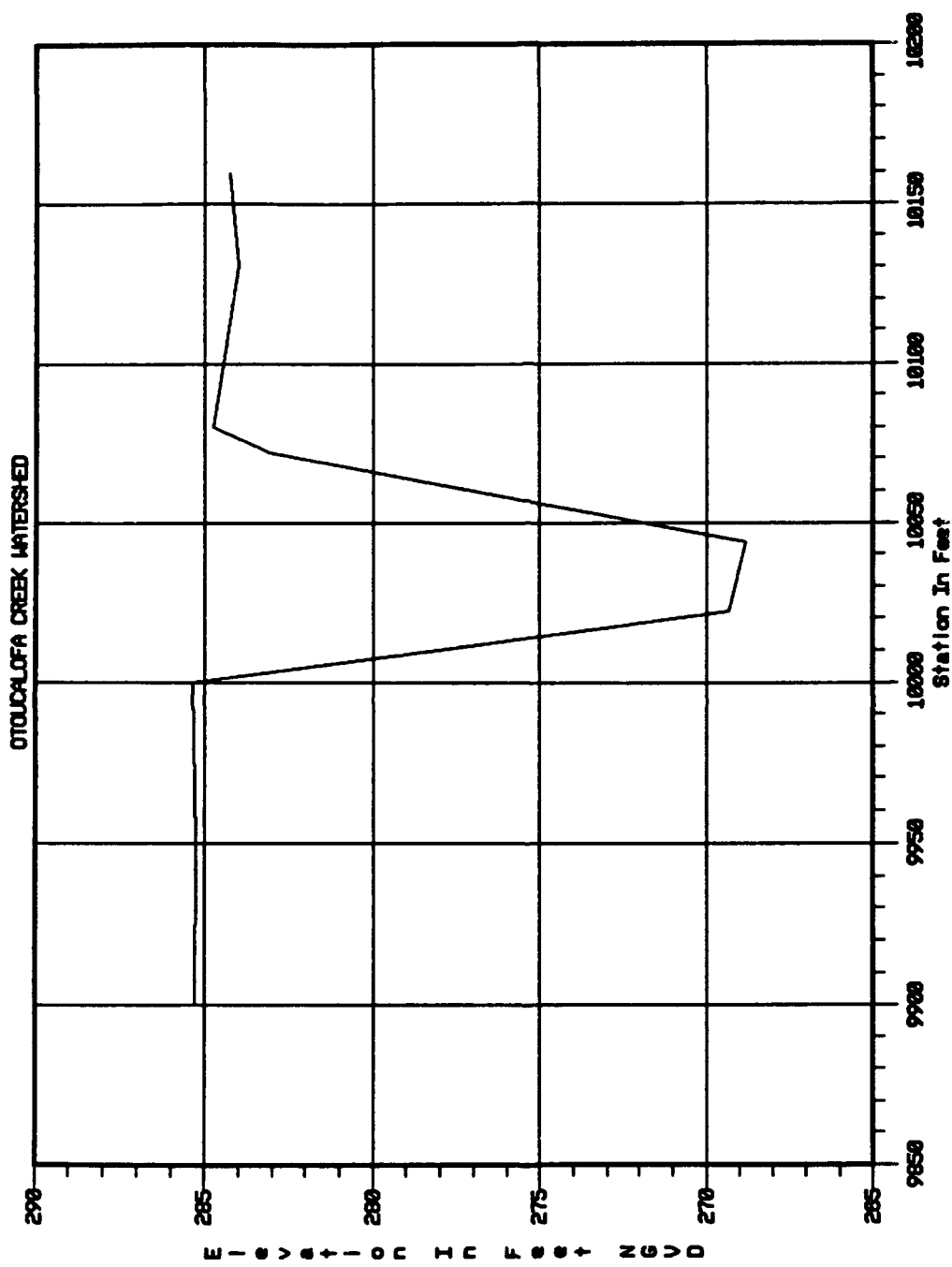


Plate C122



JOHNSON CREEK 1985 XSEC 8375

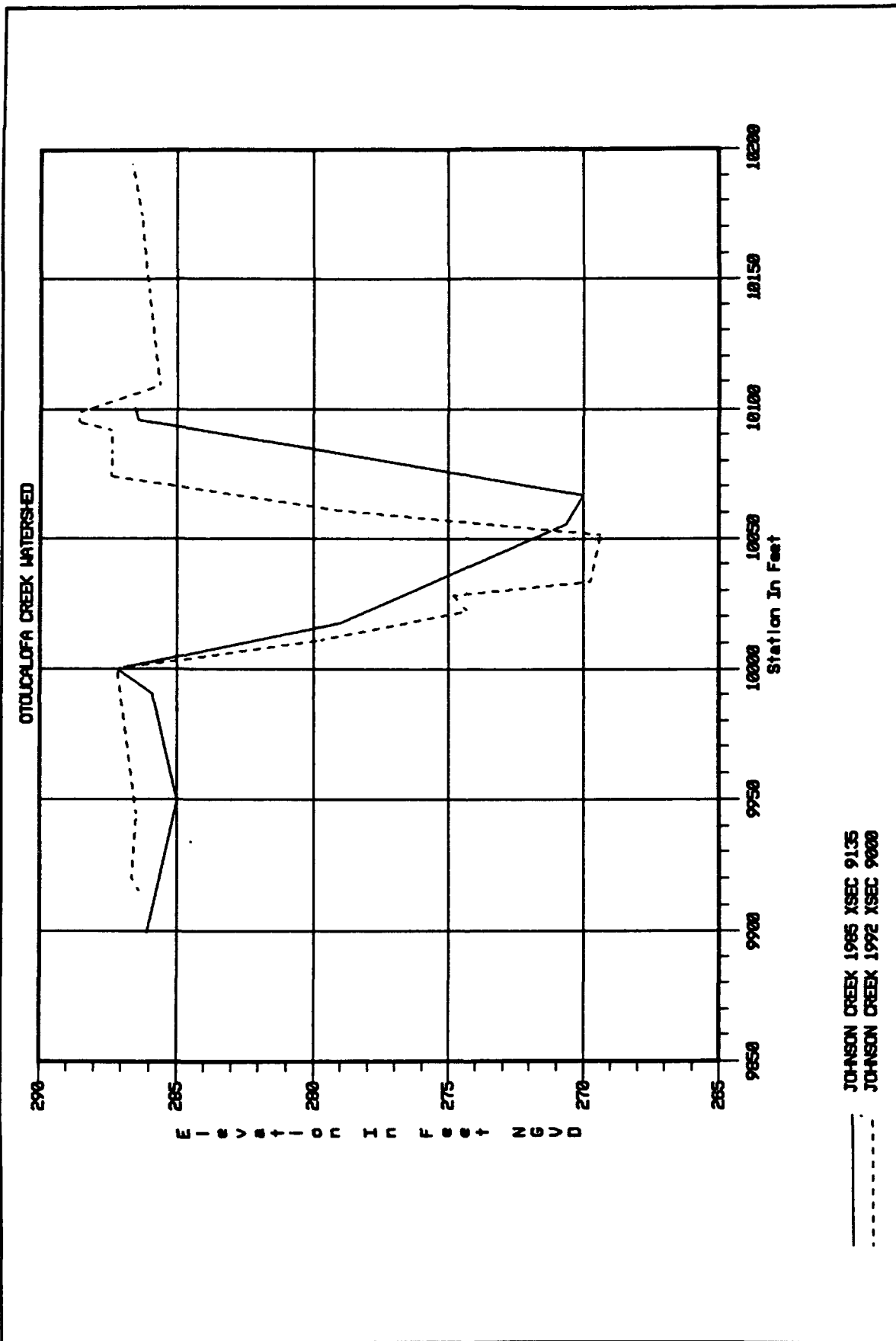
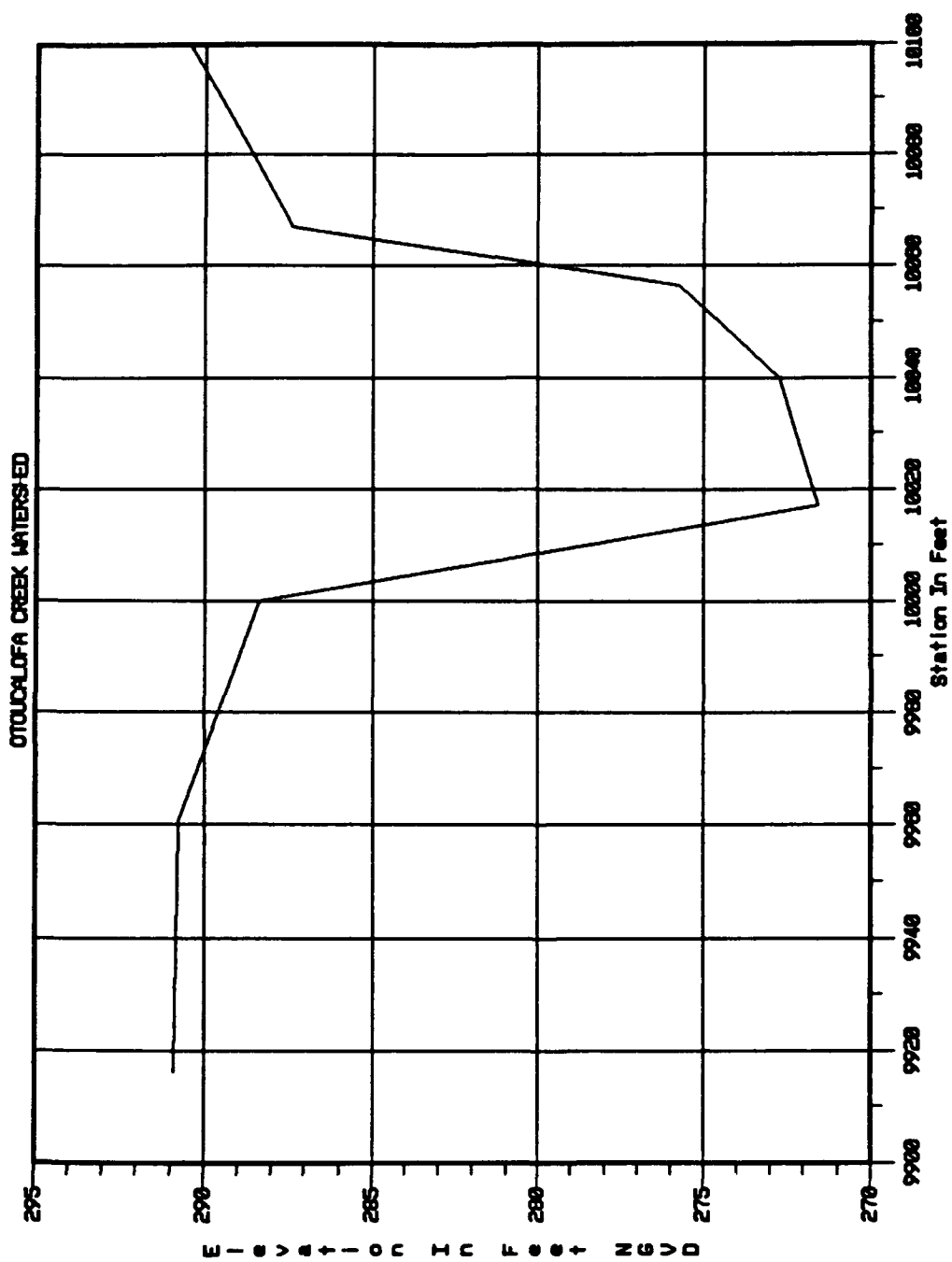


Plate C124



JOHNSON CREEK 1985 XSEC 9535

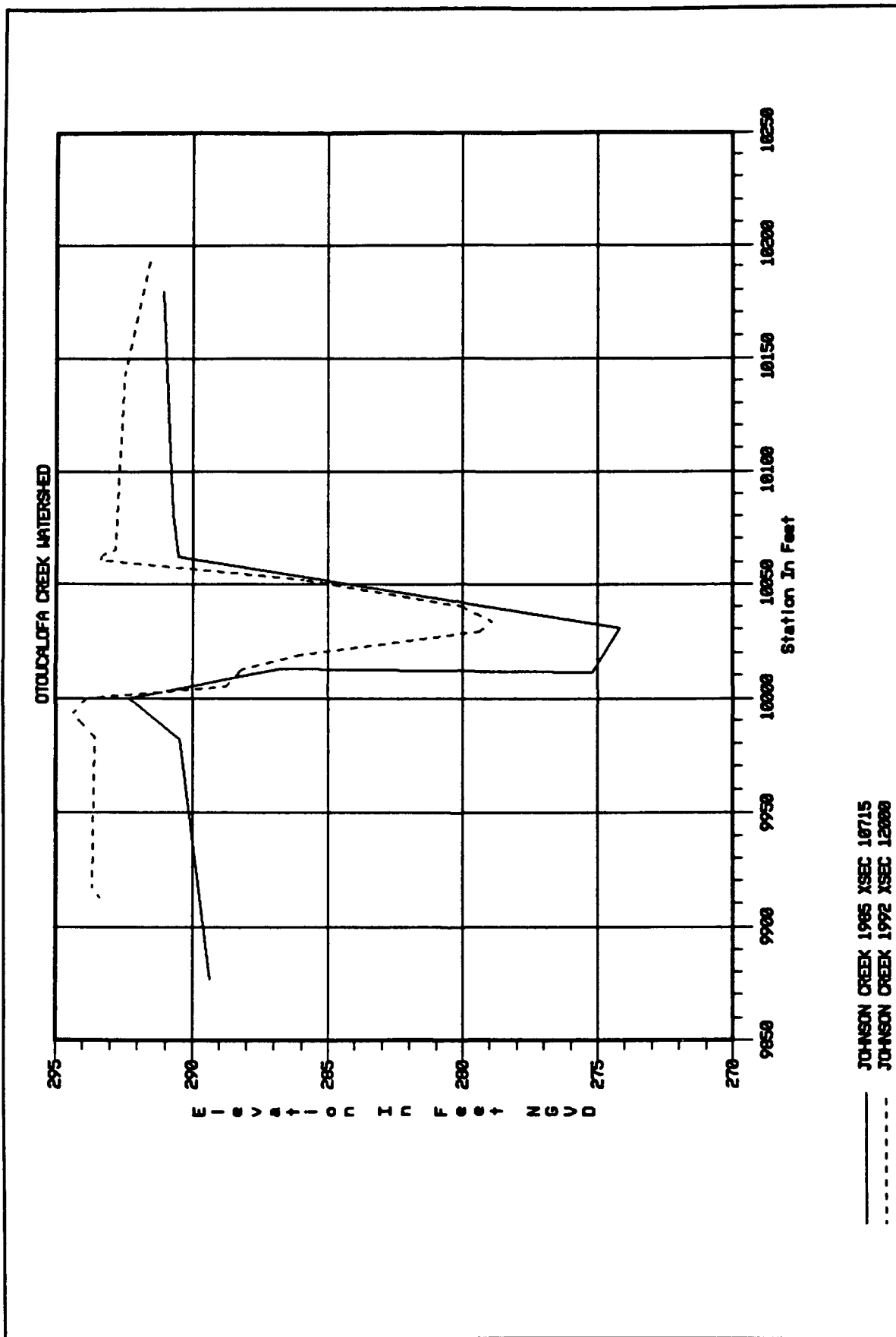
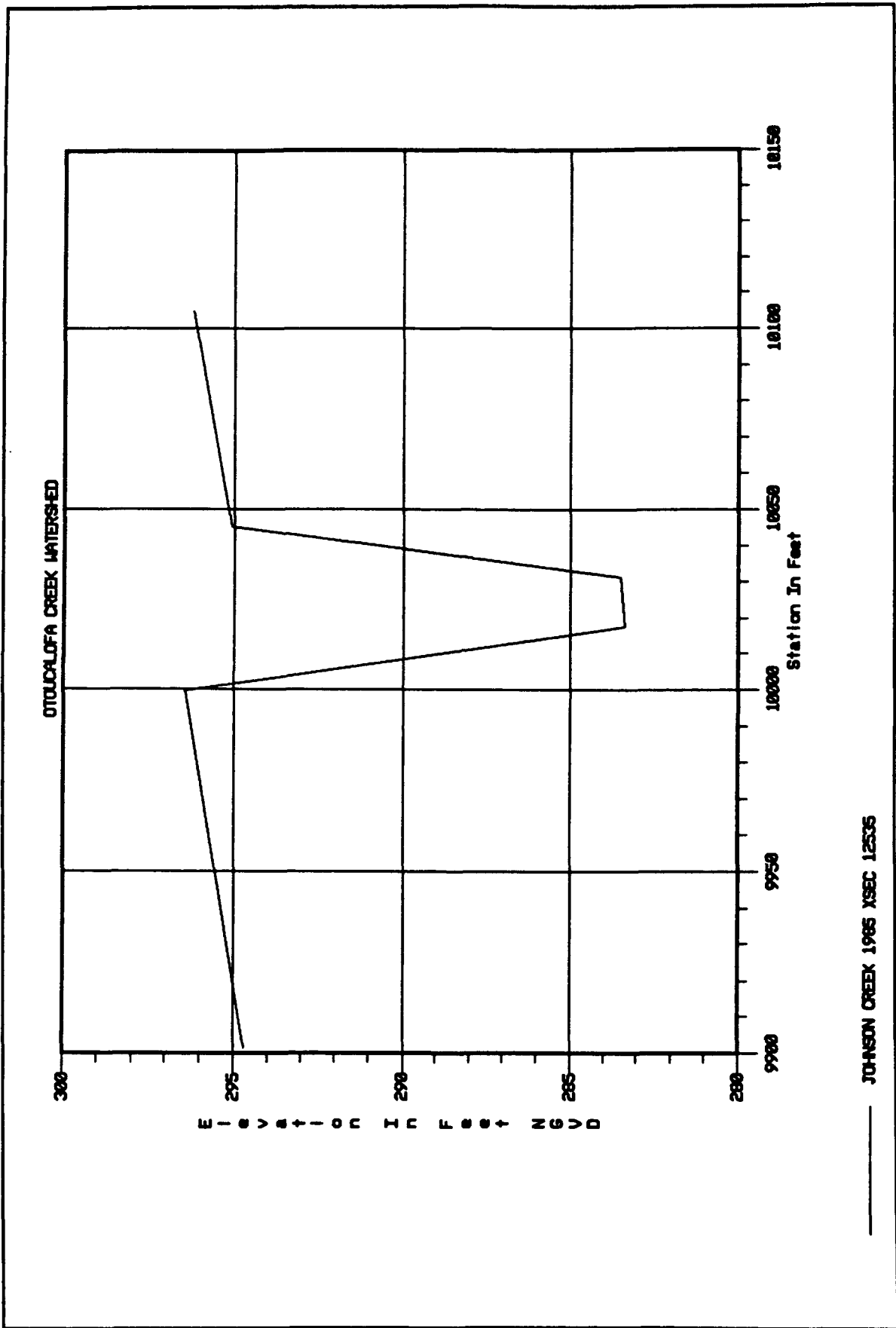


Plate C126



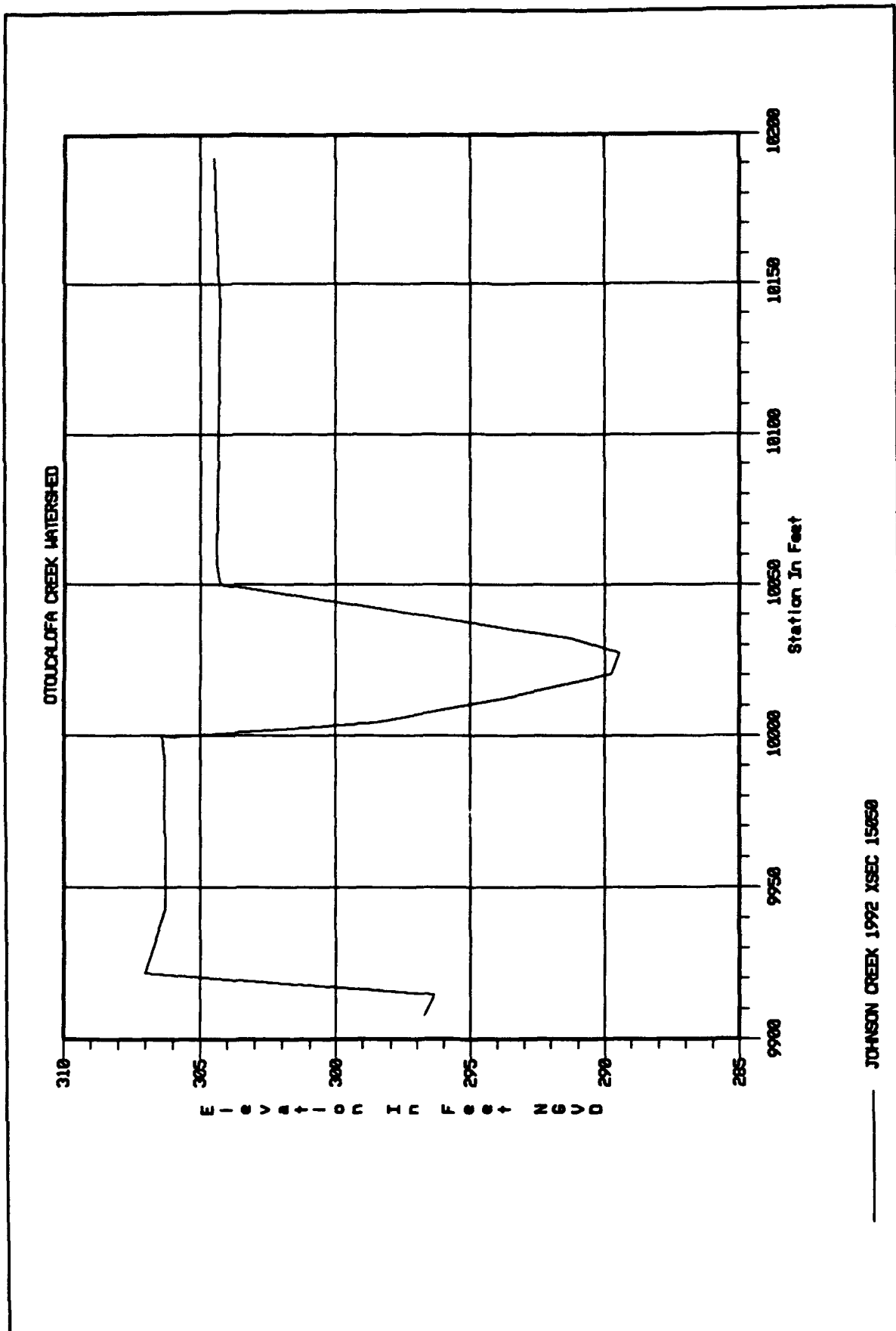
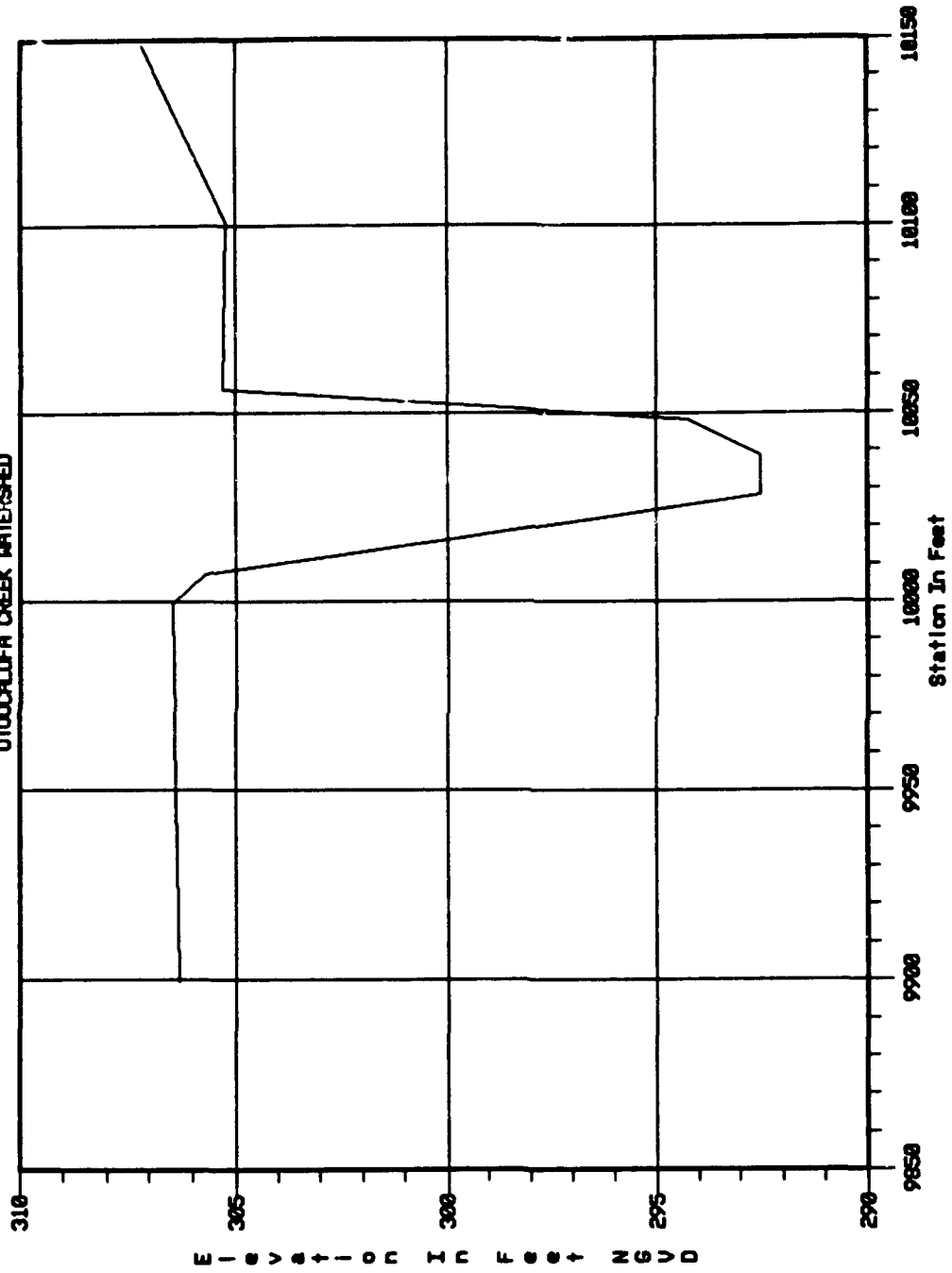


Plate C128

OTOUCALOFA CREEK WATERSHED



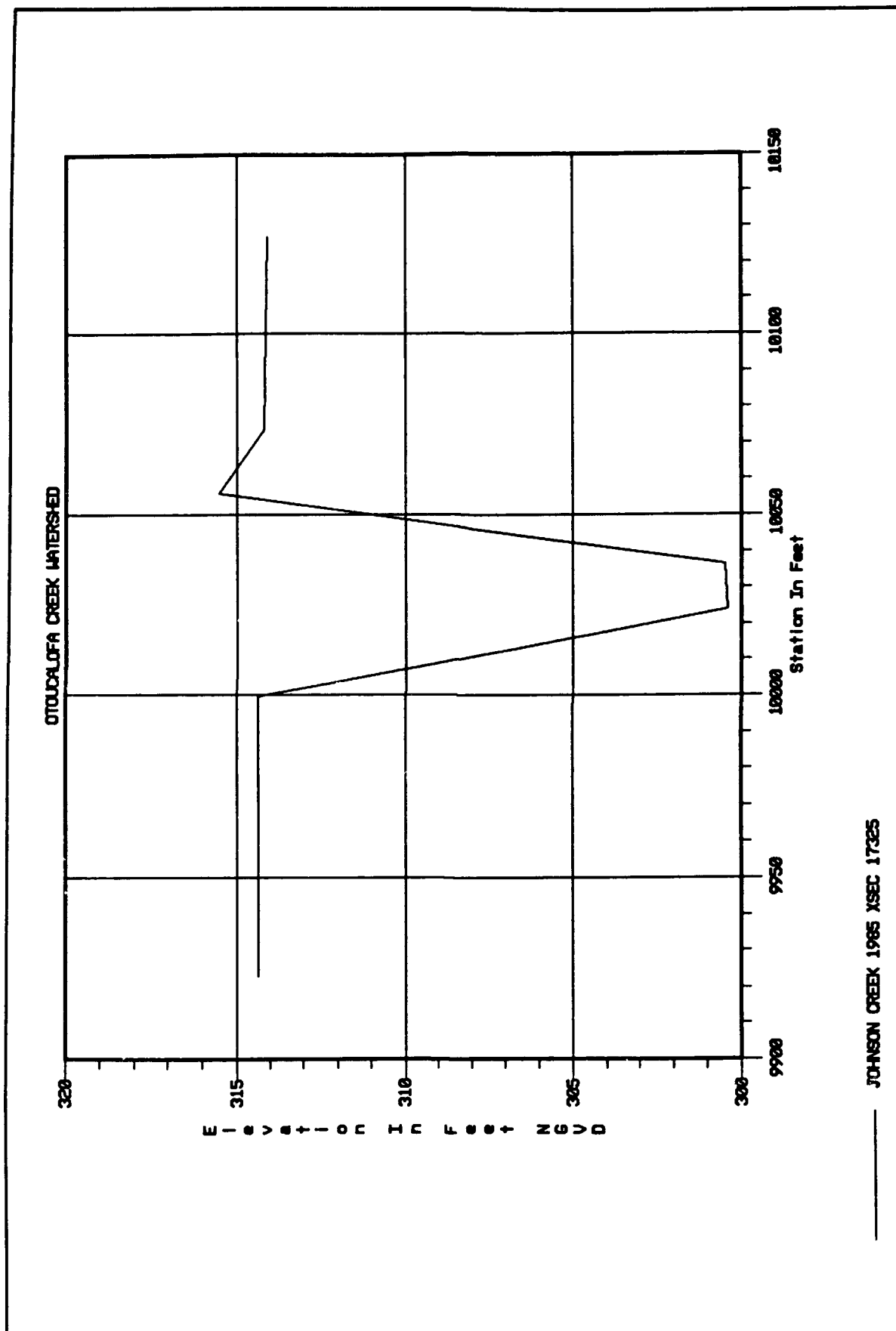
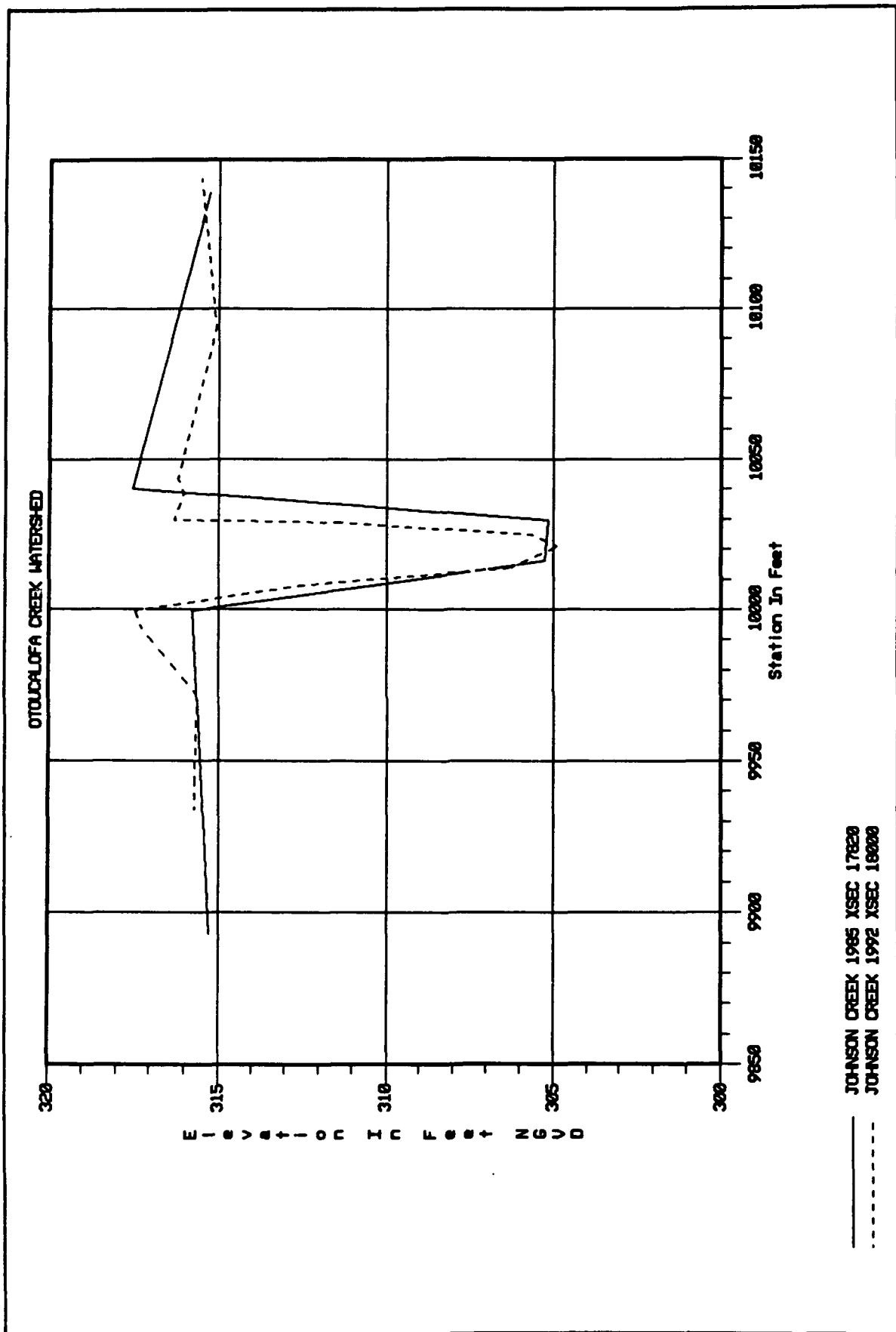
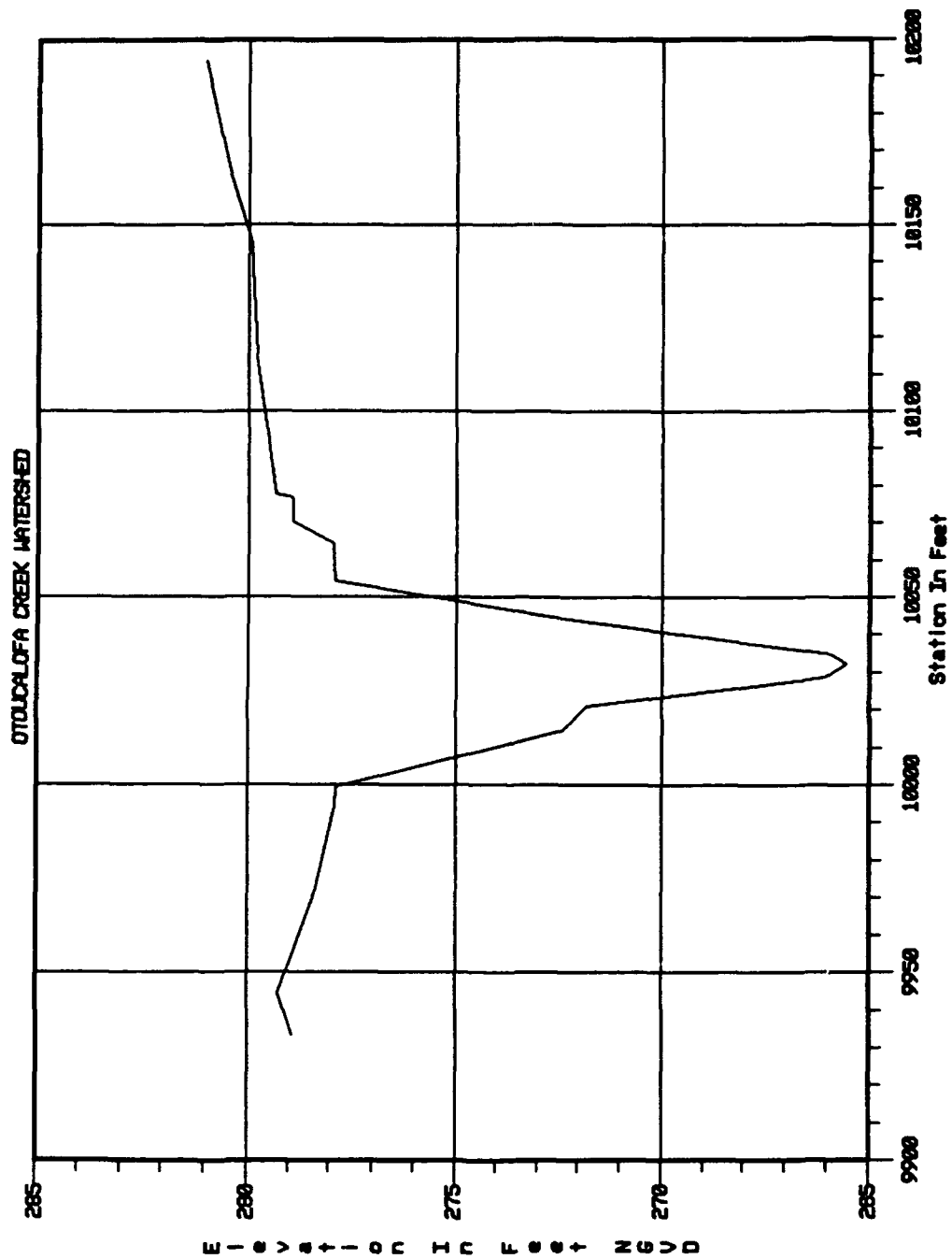
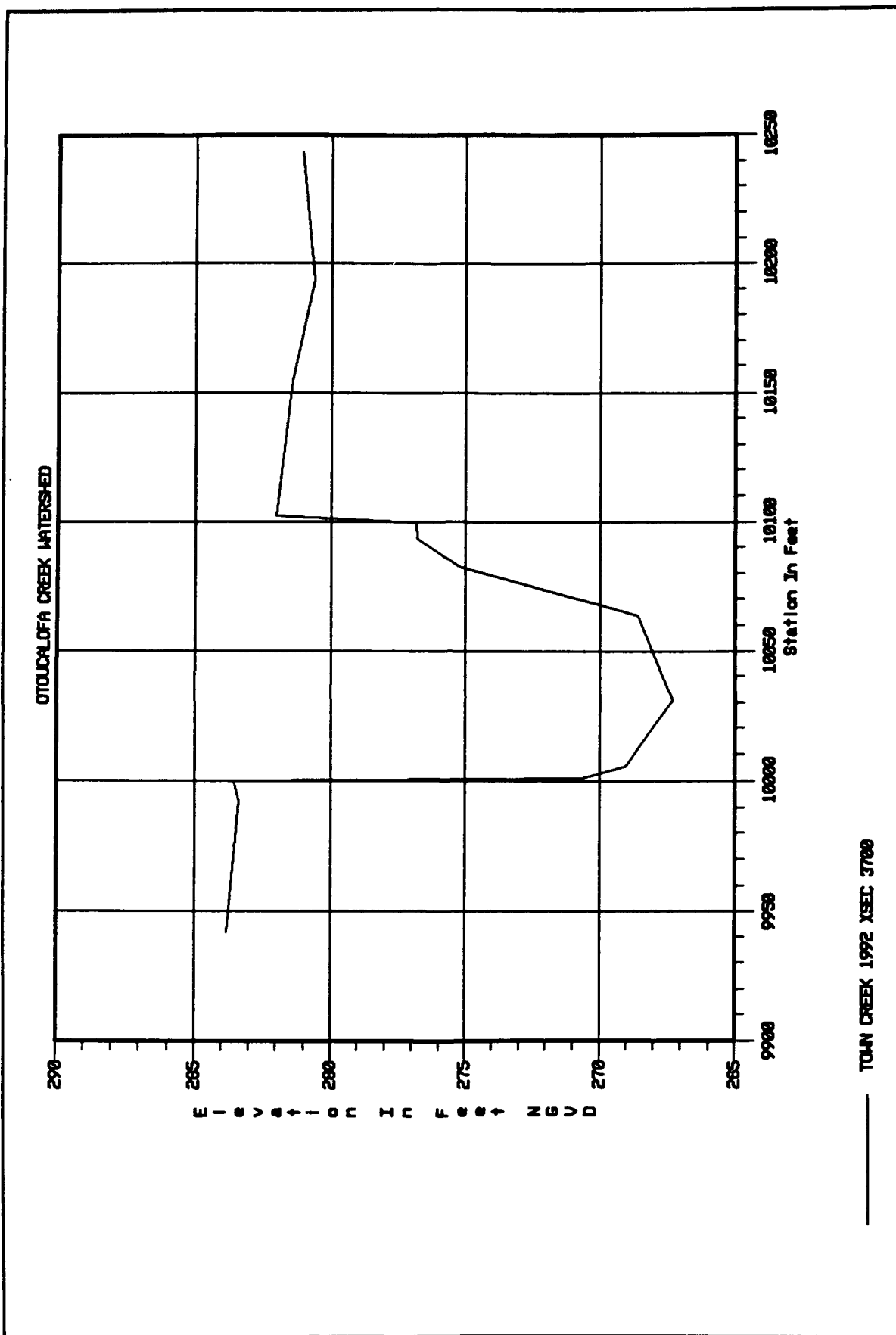


Plate C130





TOAN CREEK 1992 XSEC 3000



TOUJIN CREEK 1992 XSEC 3700

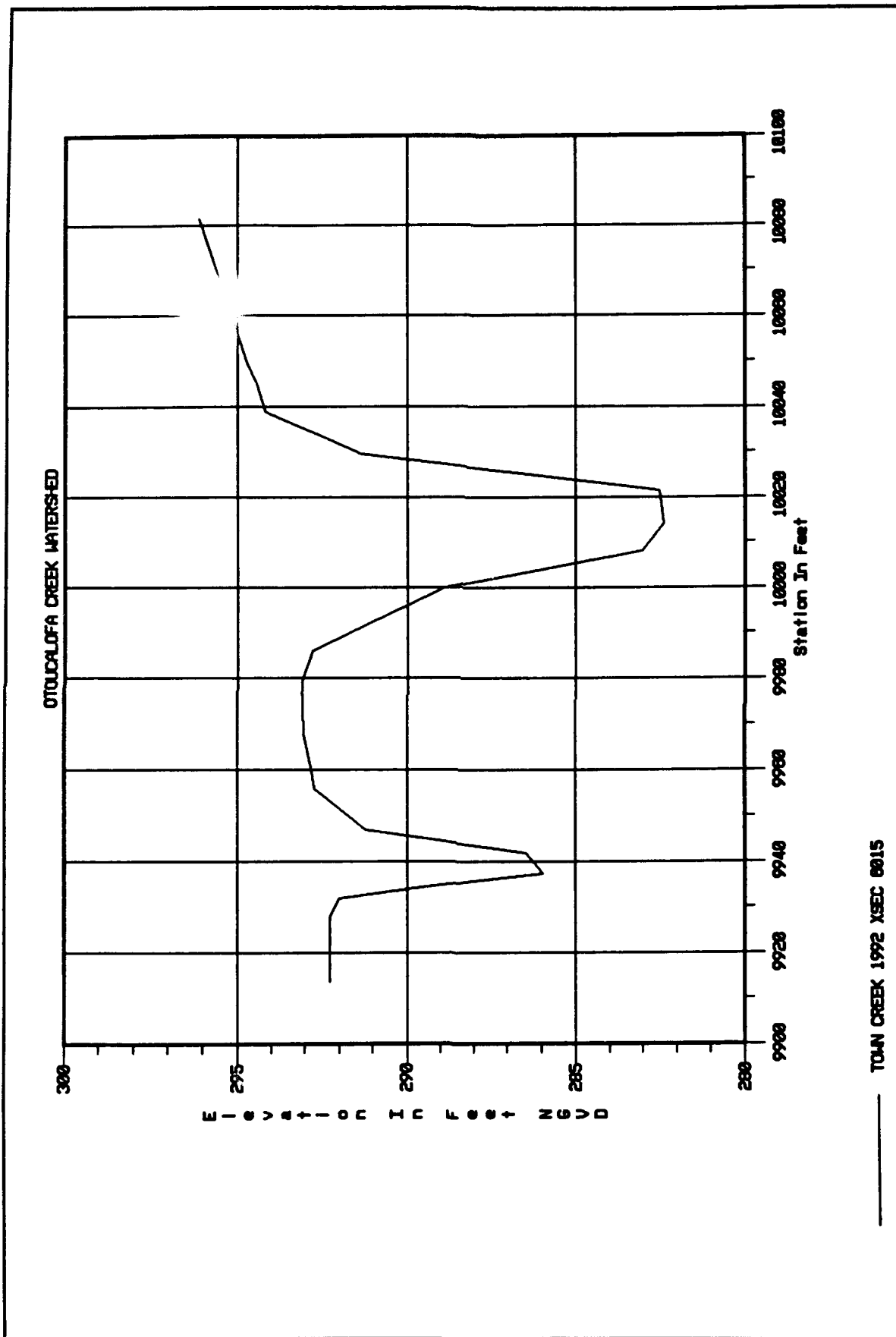
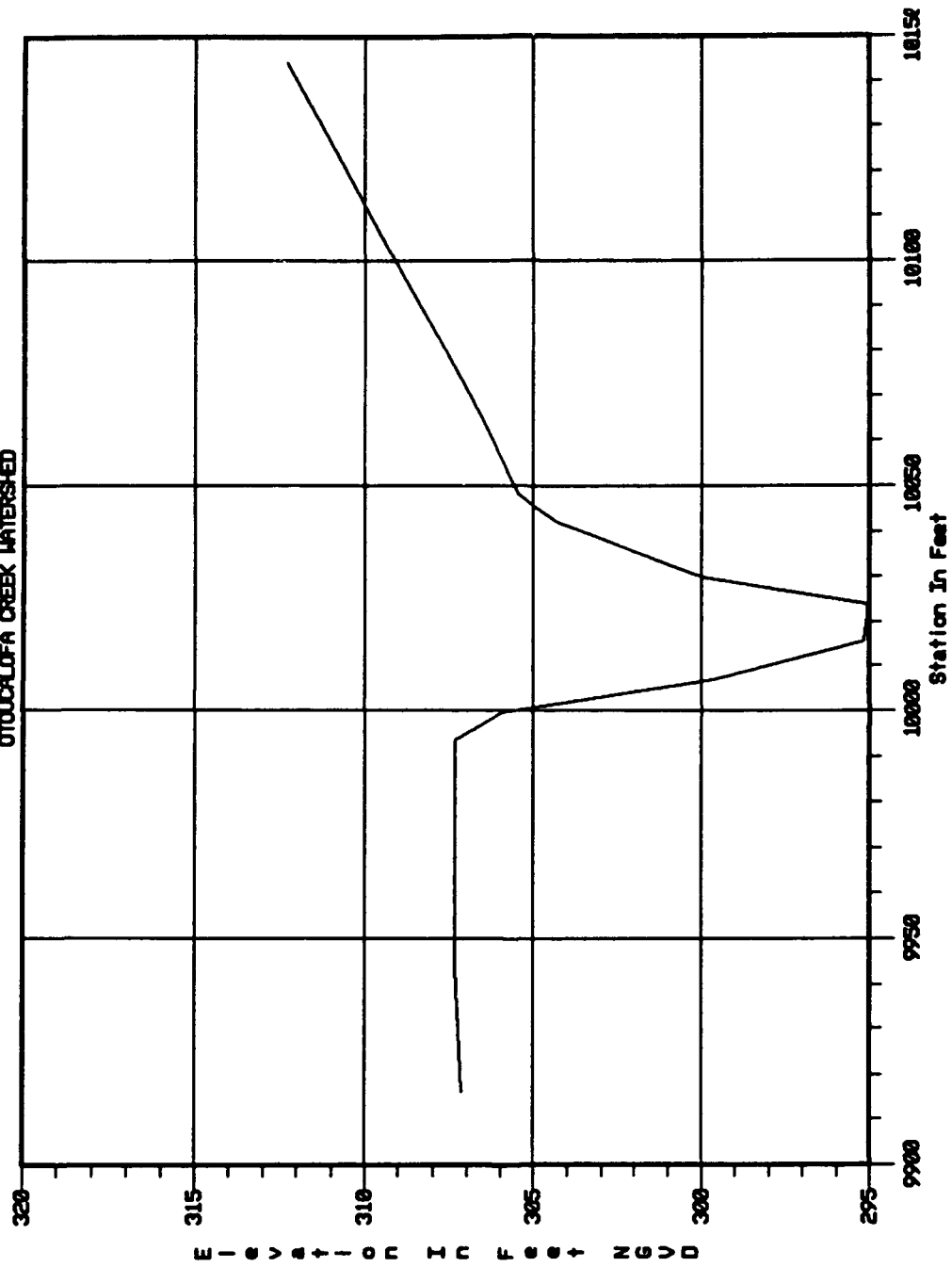


Plate C134

OTOLUCKLOFA CREEK WATERSHED



—— TOWN CREEK 1992 XSEC 9000

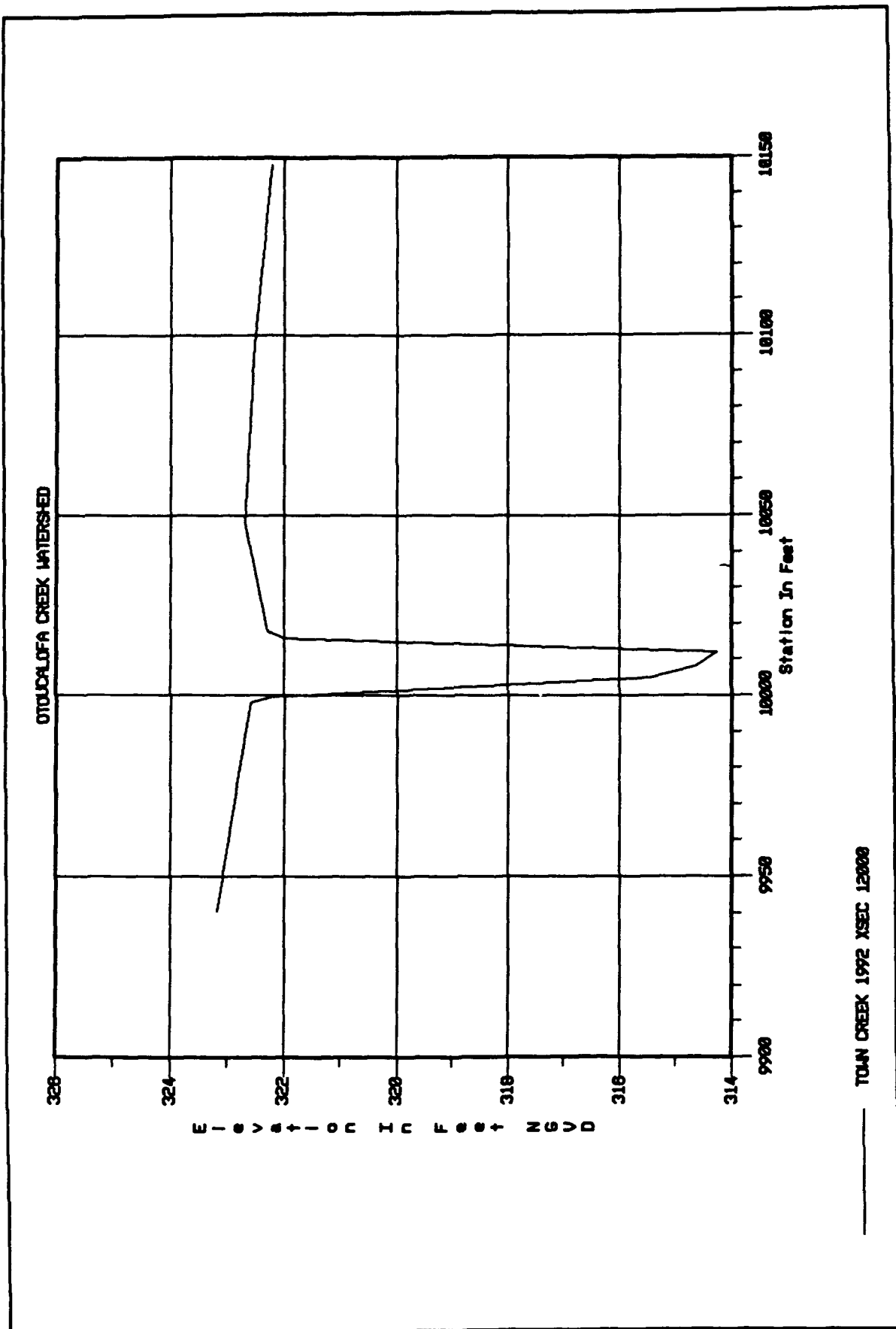
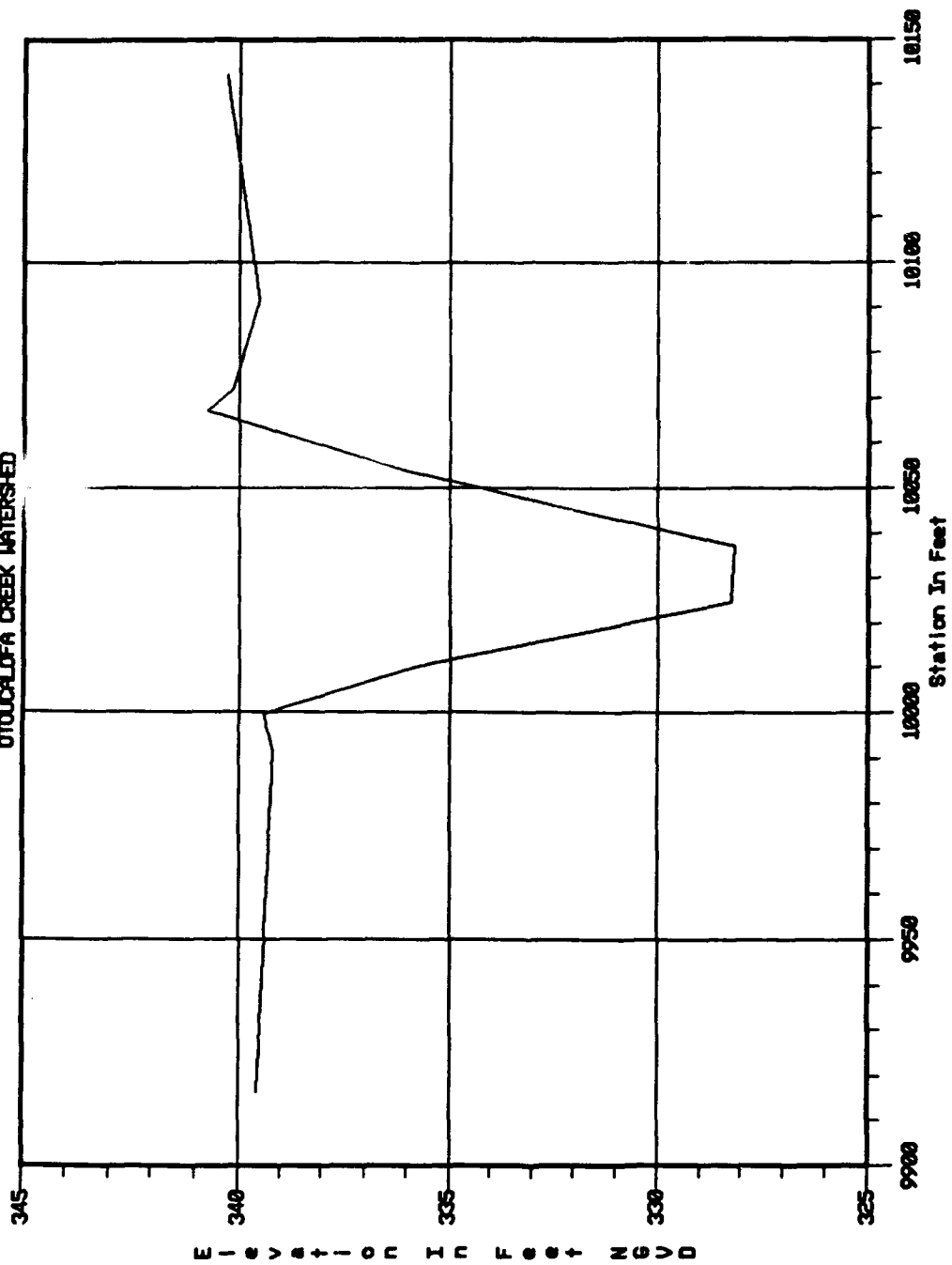


Plate C136

OTOLUCHA CREEK WATERSHED



TOUJIN CREEK 1992 XSEC 14444

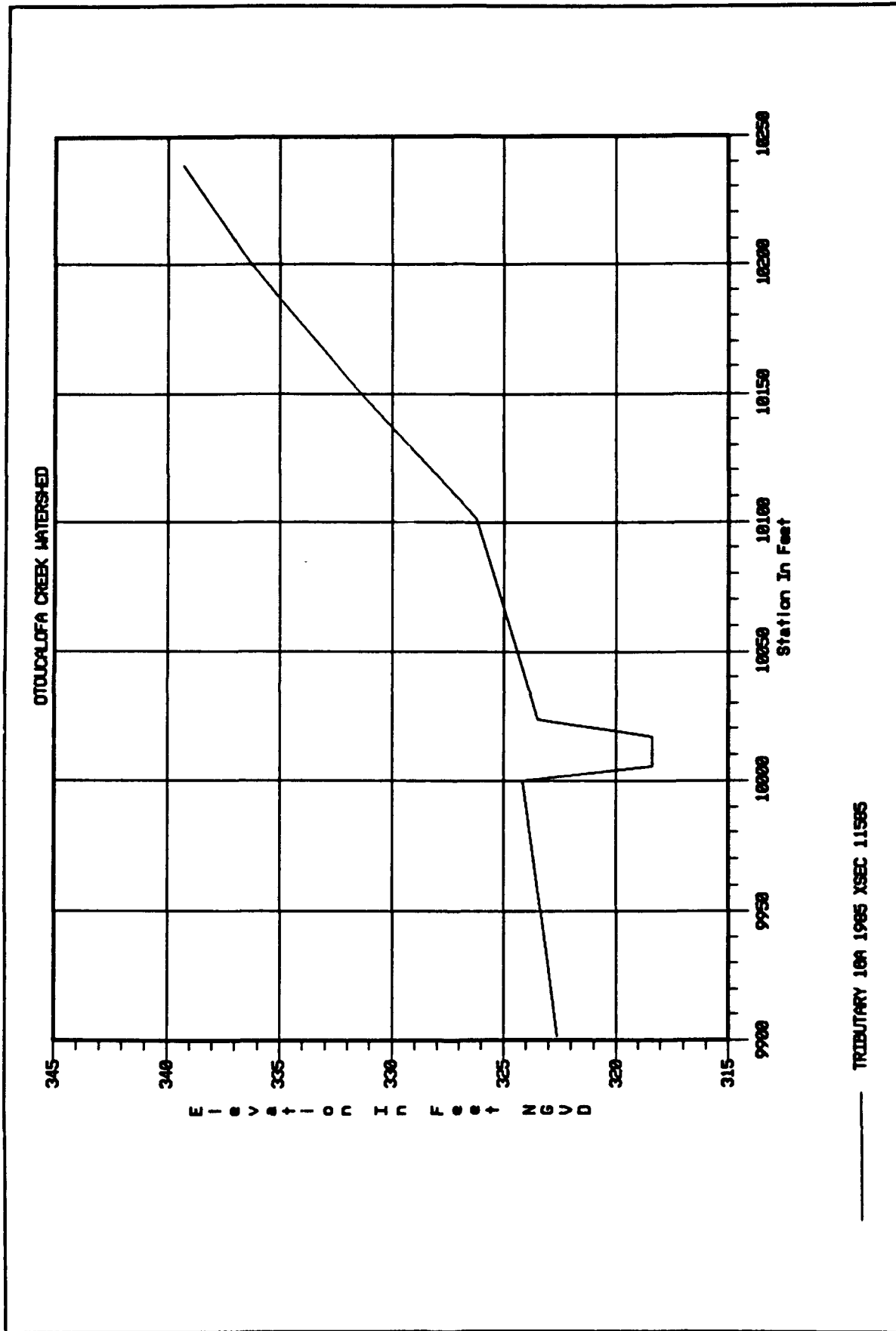
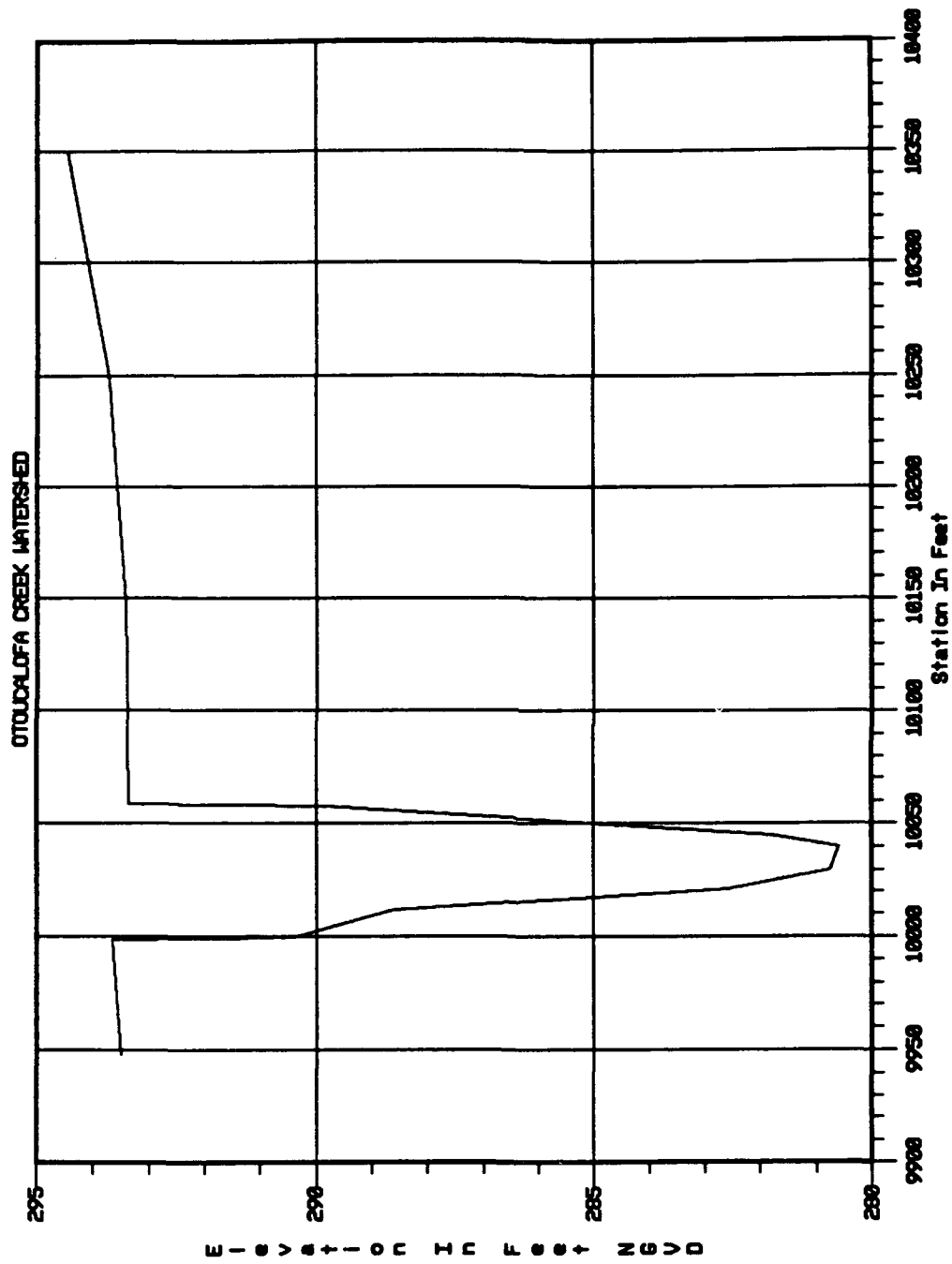


Plate C138



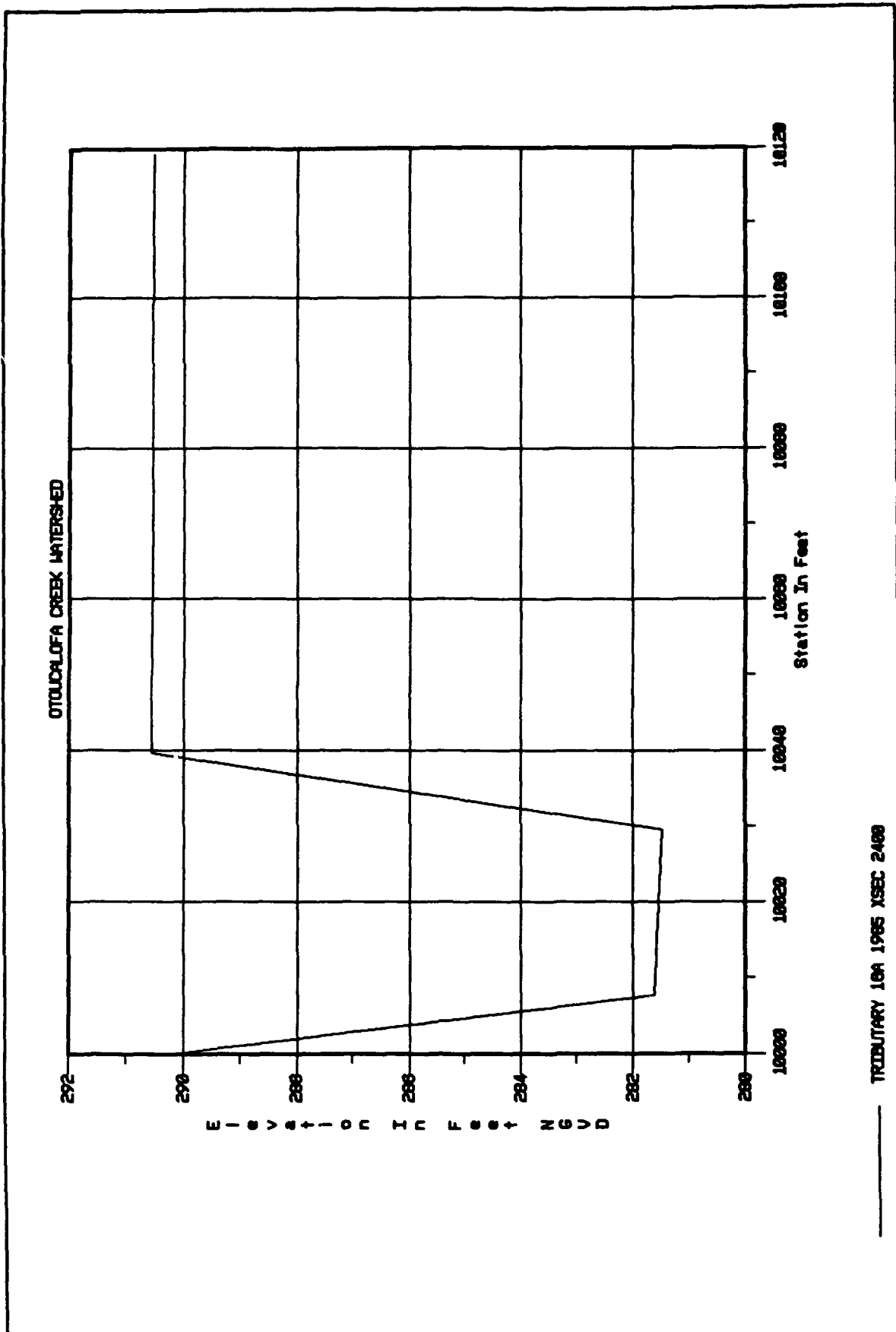
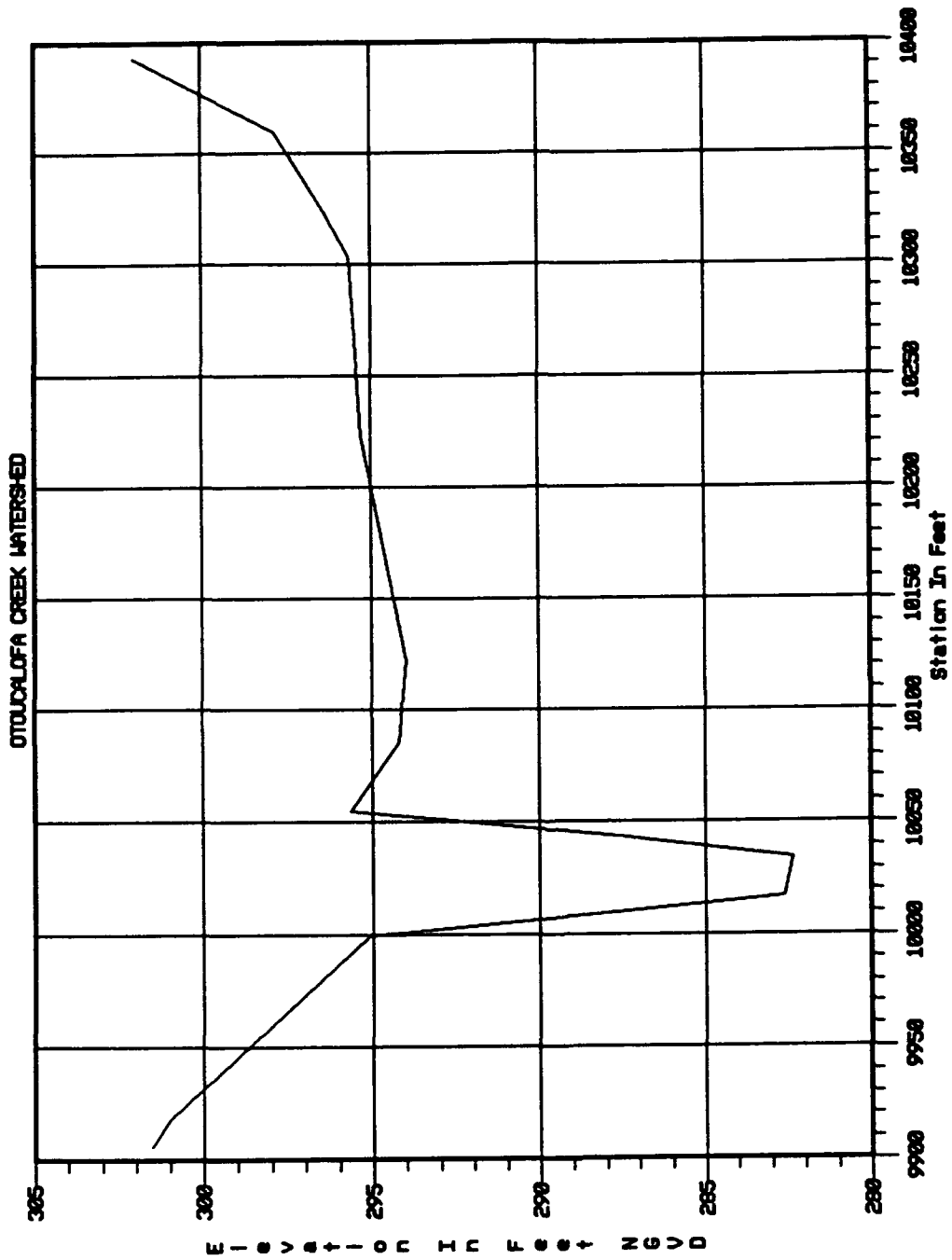


Plate C140



TRIBUTARY 18A 1985 XSEC 3650

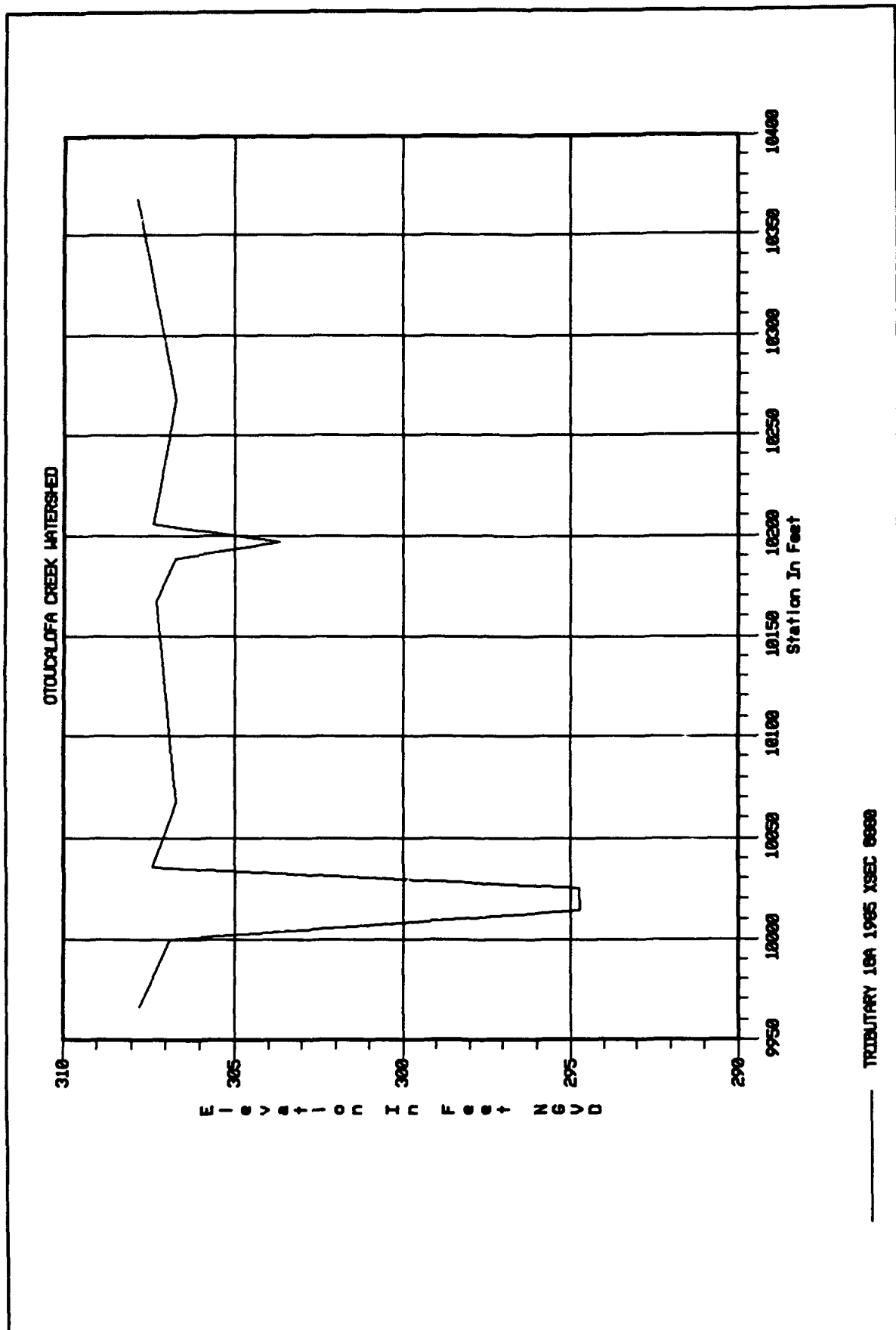
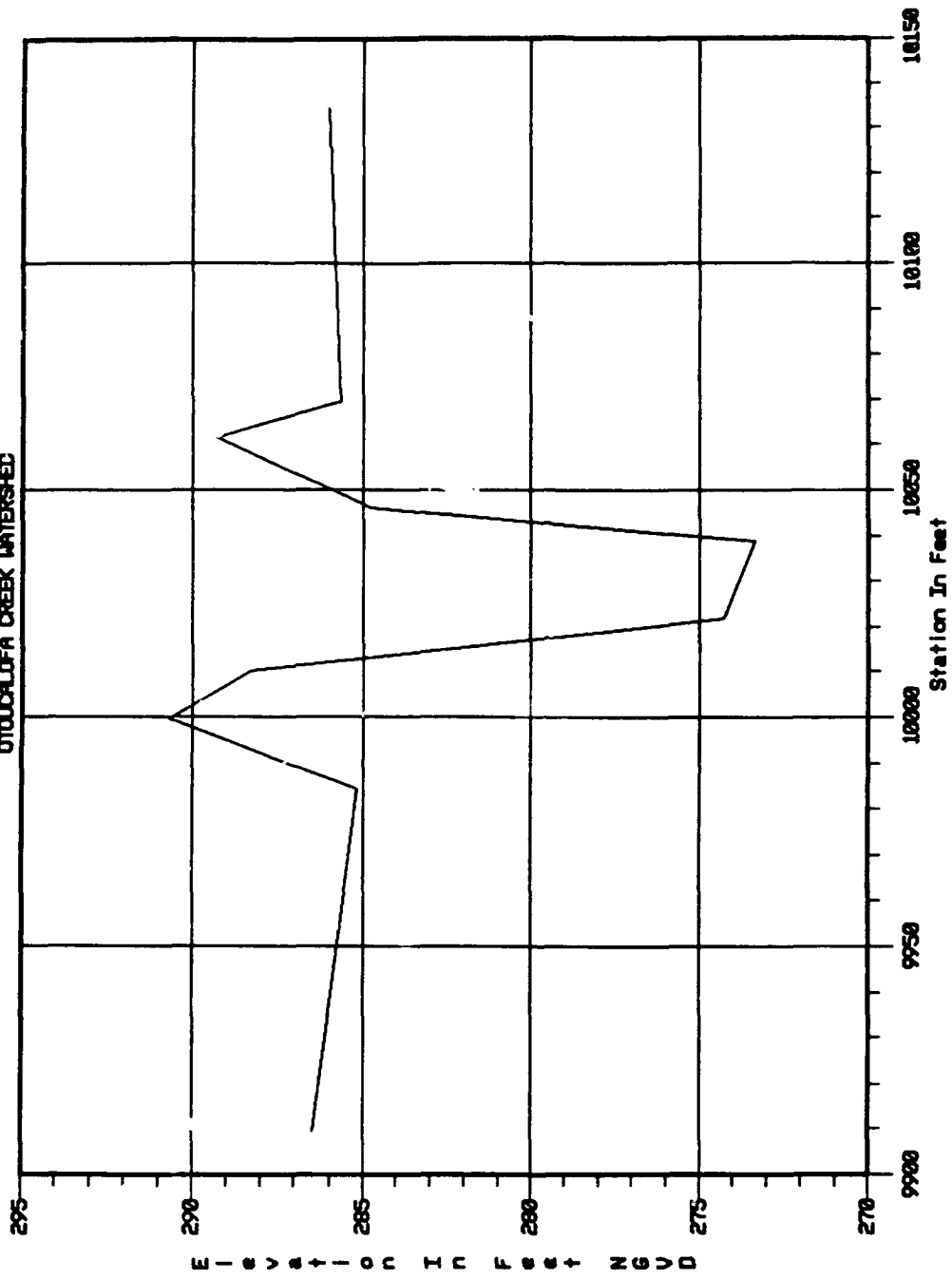


Plate C142

OTOLUALOFA CREEK WATERSHED



TRIBUTARY 16A 1985 XSEC 910

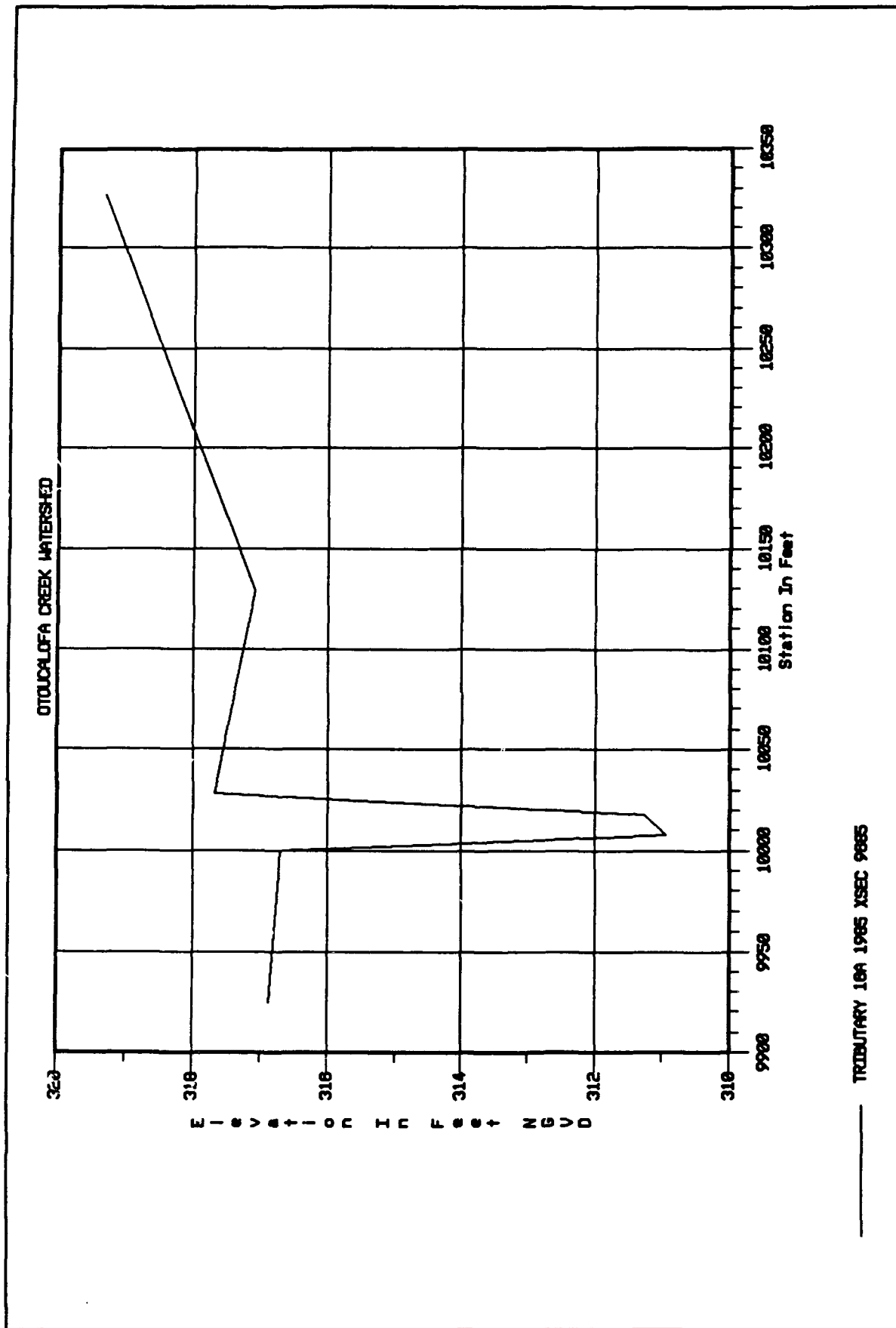
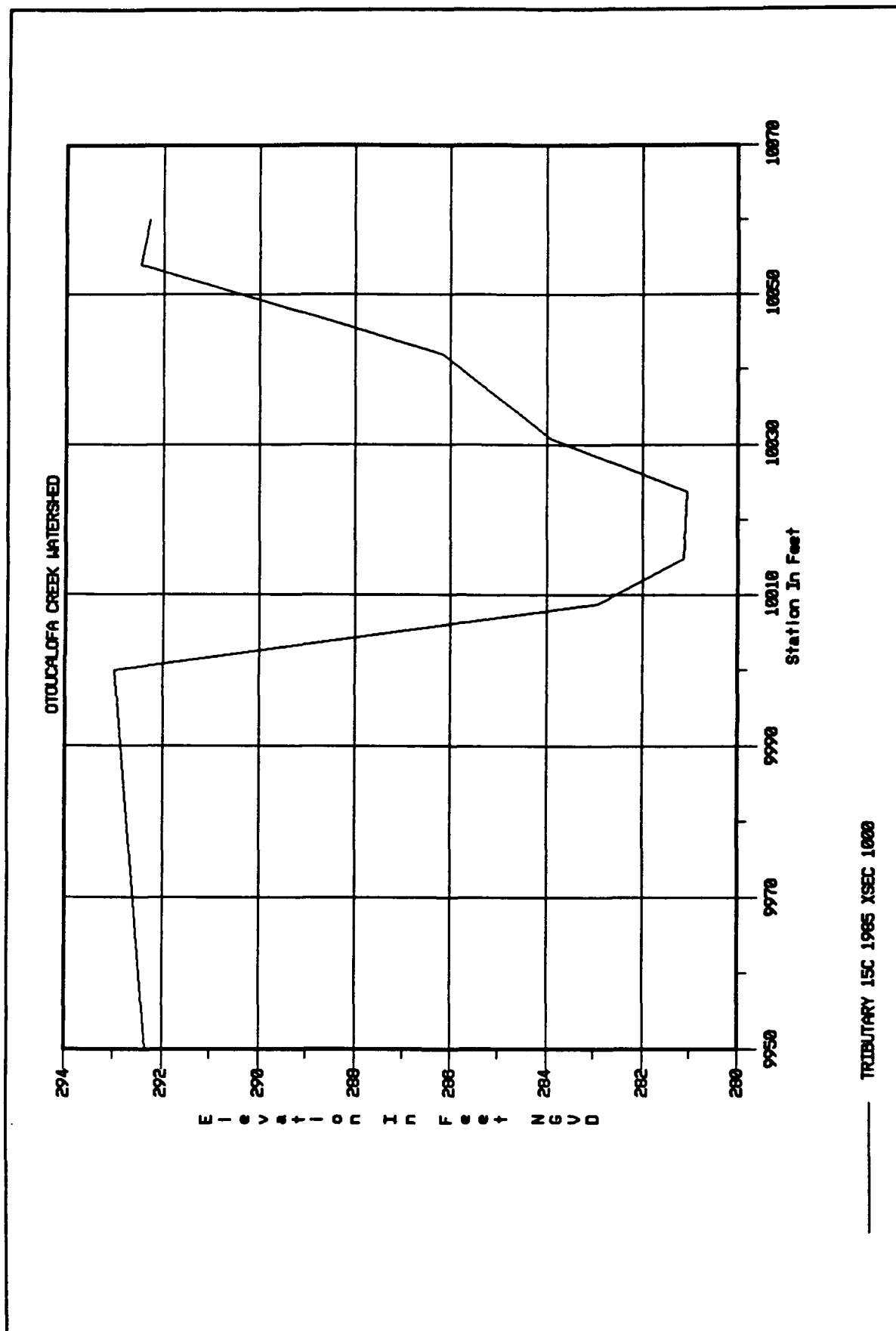


Plate C144



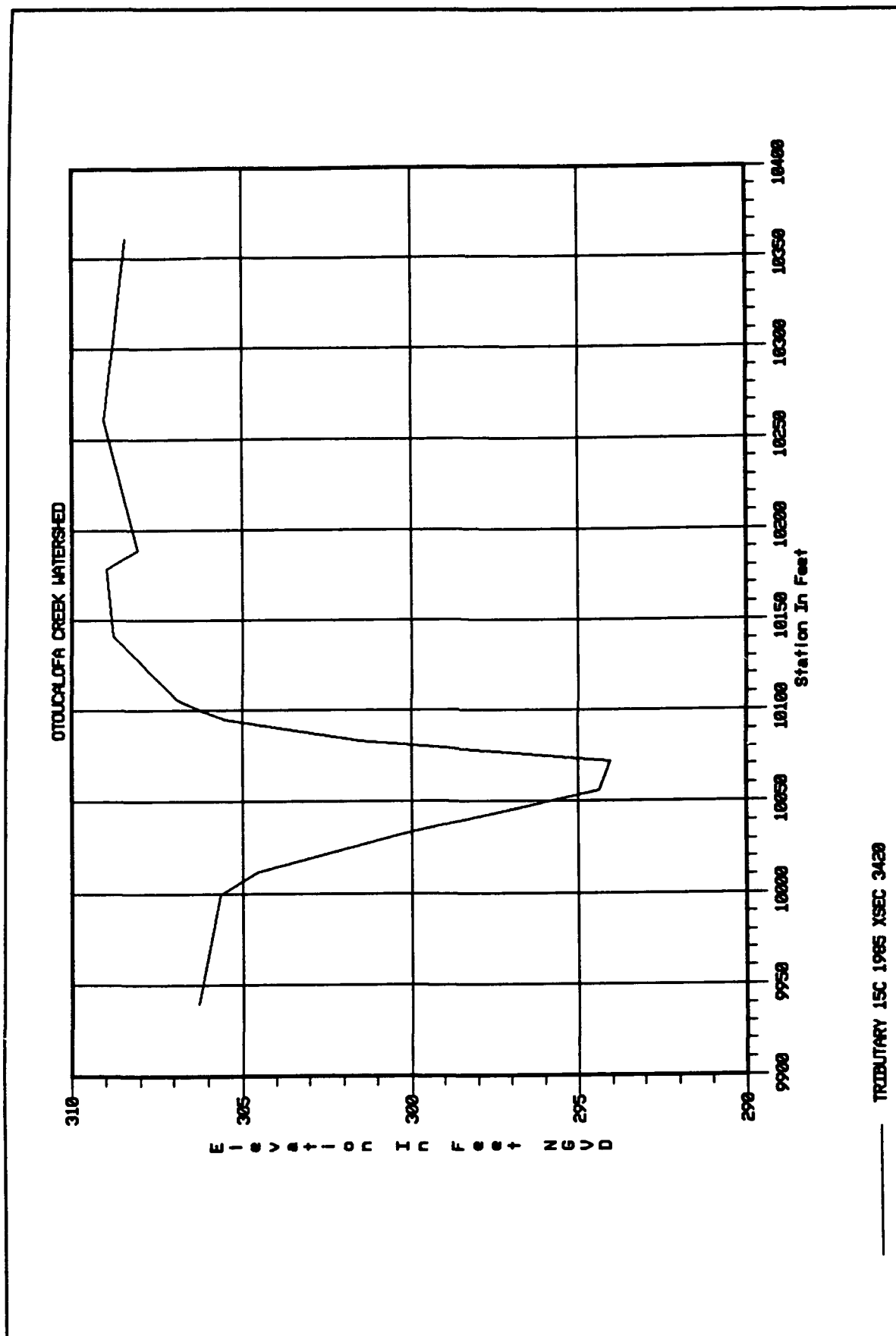
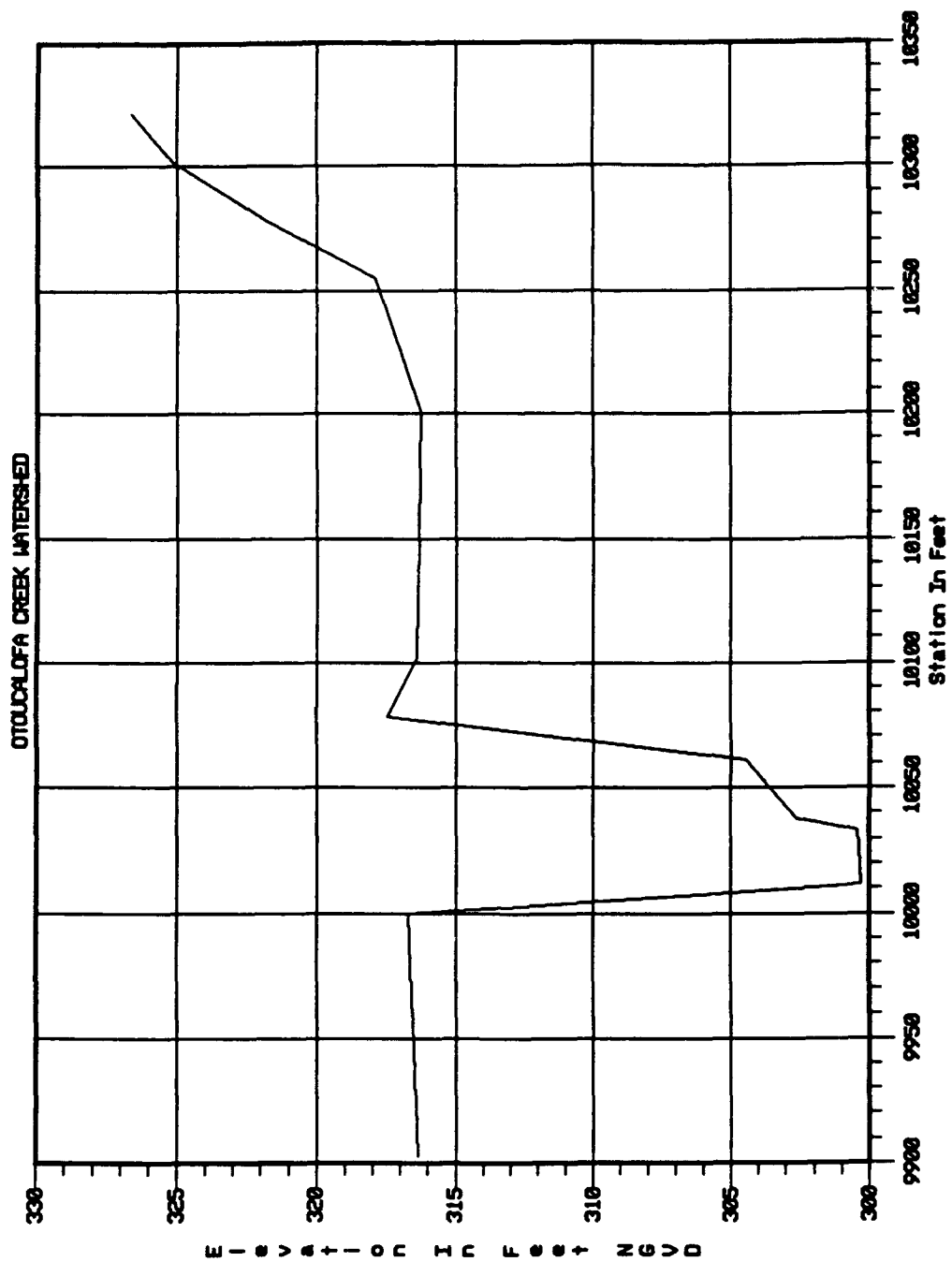


Plate C146



TRIBUTARY 15C 1985 XSEC 4900

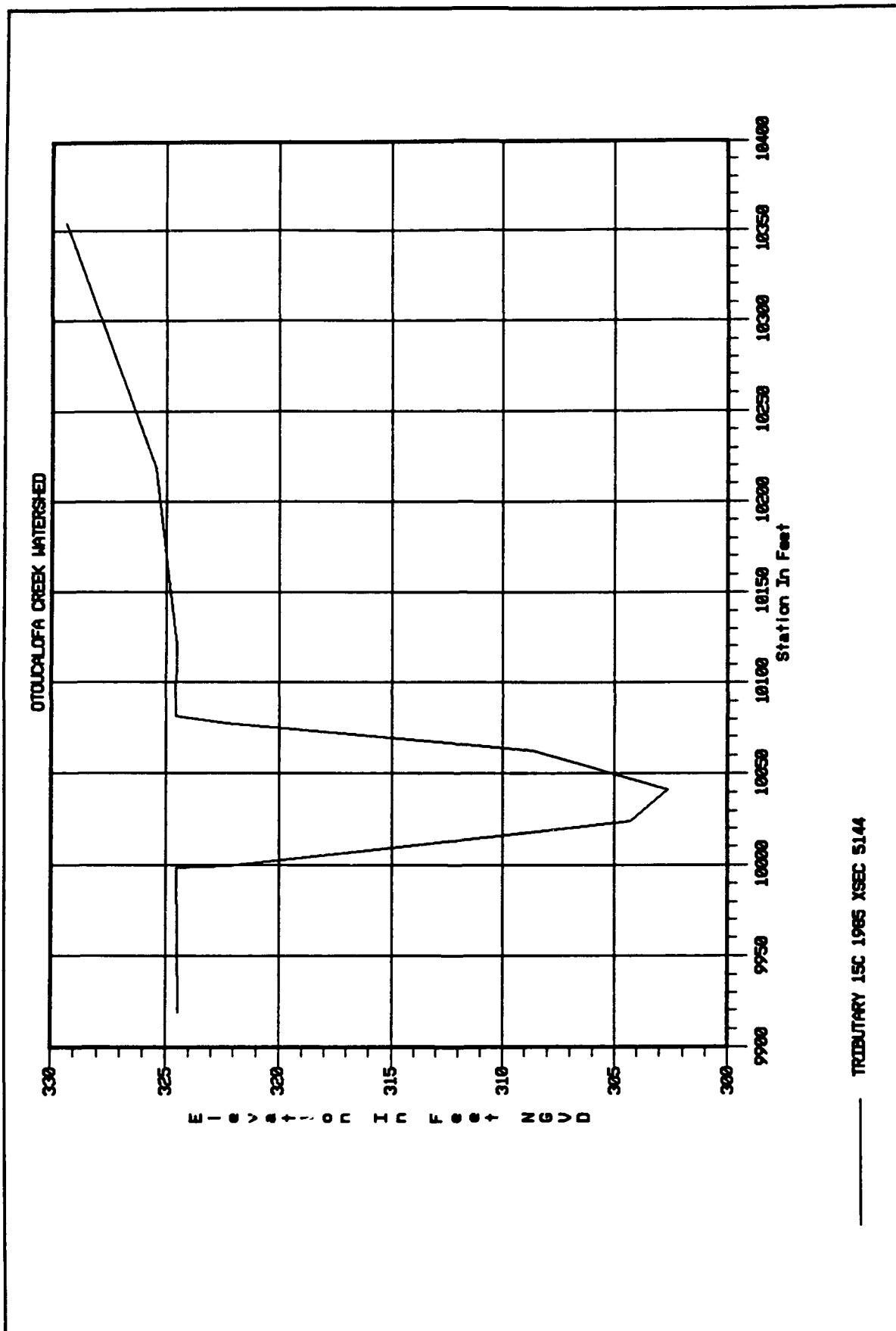
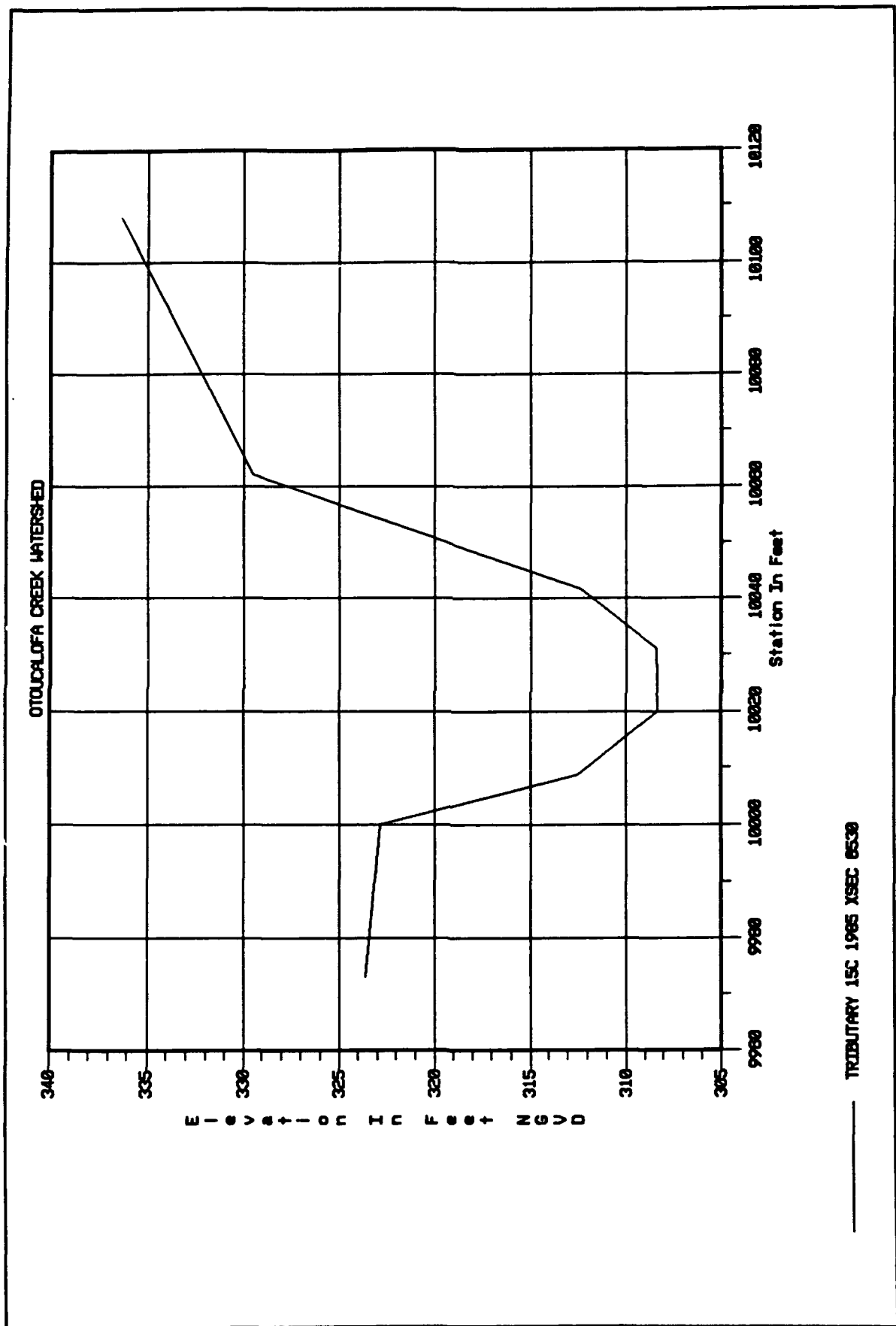


Plate C148



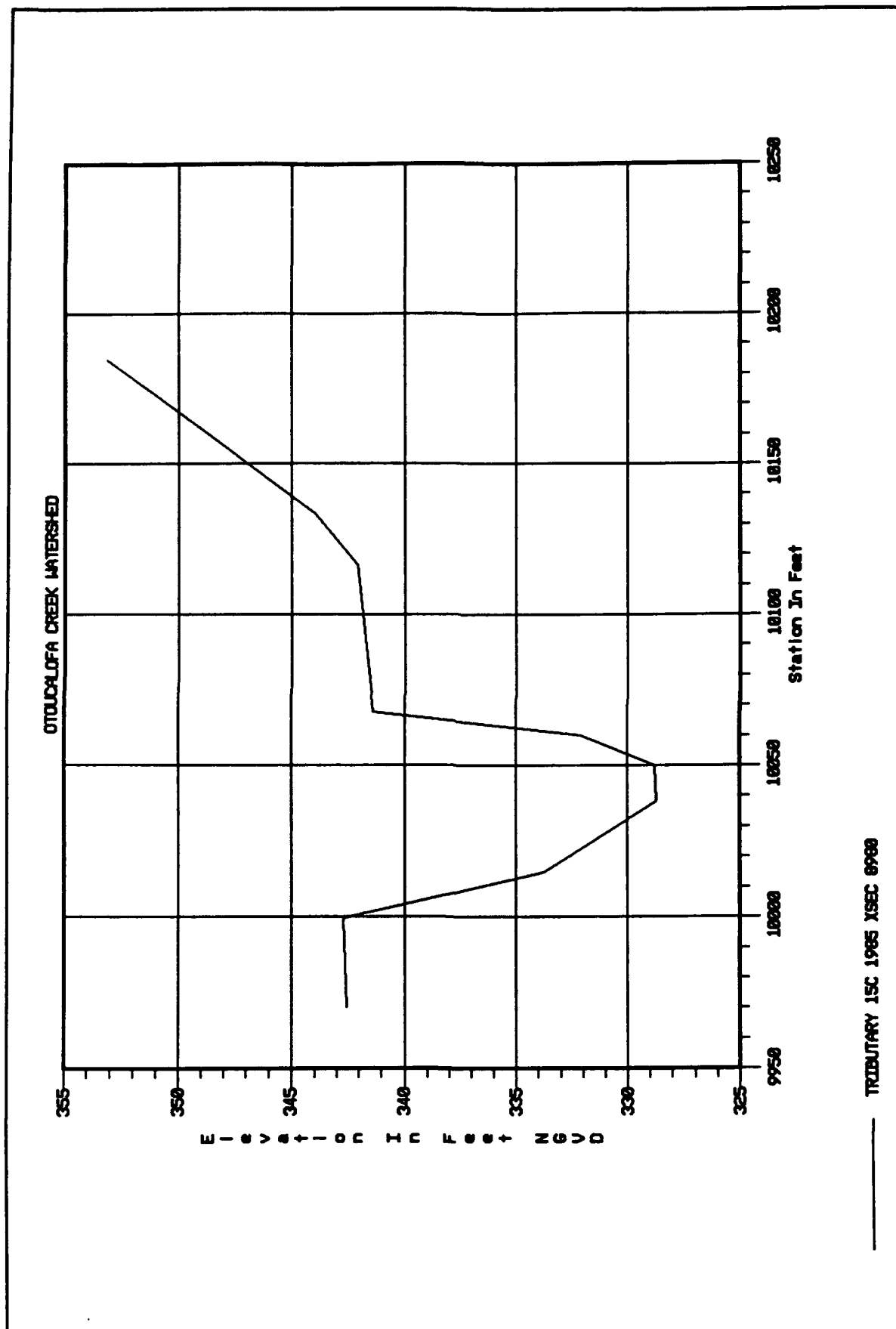
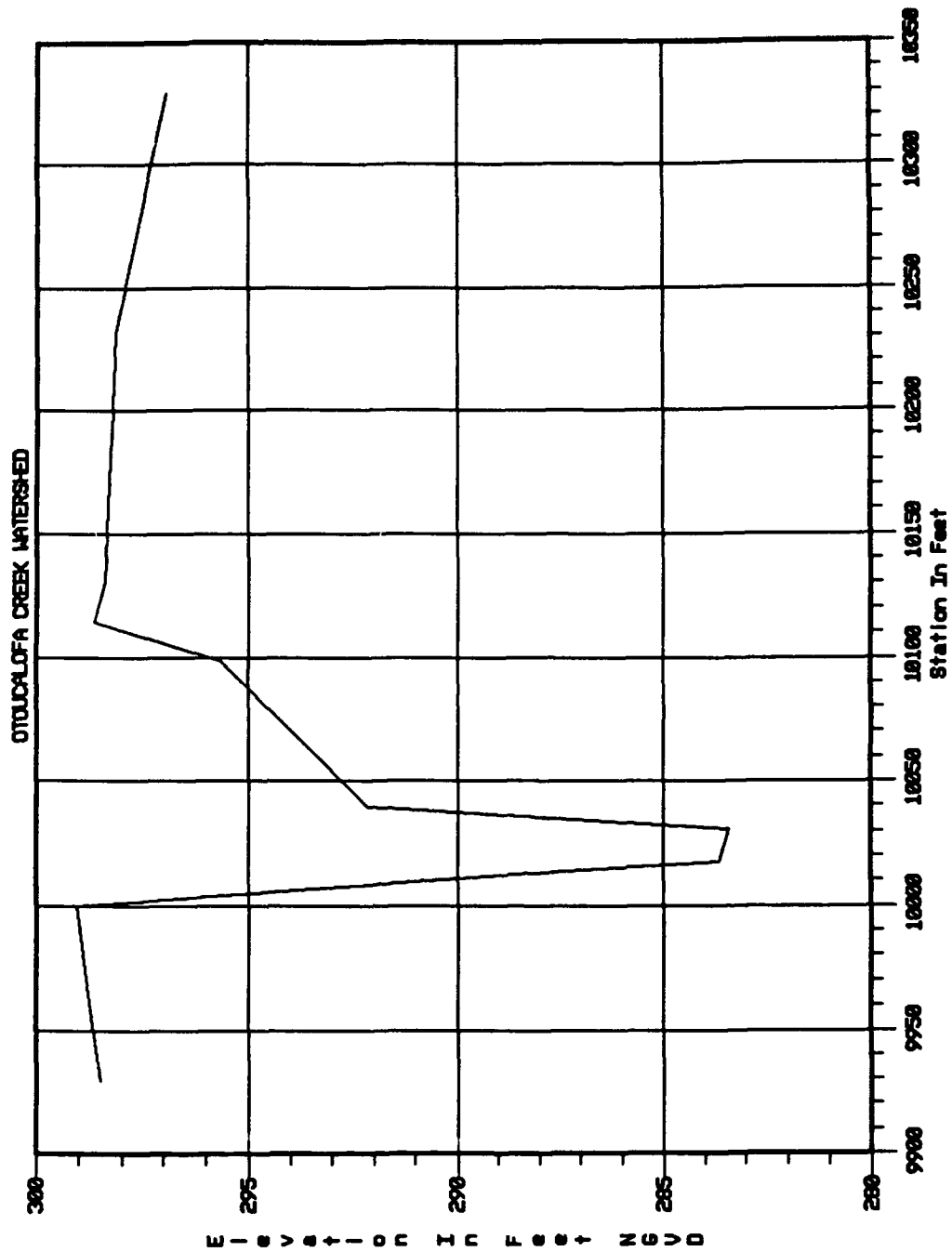


Plate C150



—— SIMMONS CREEK 1965 XSEC 1435

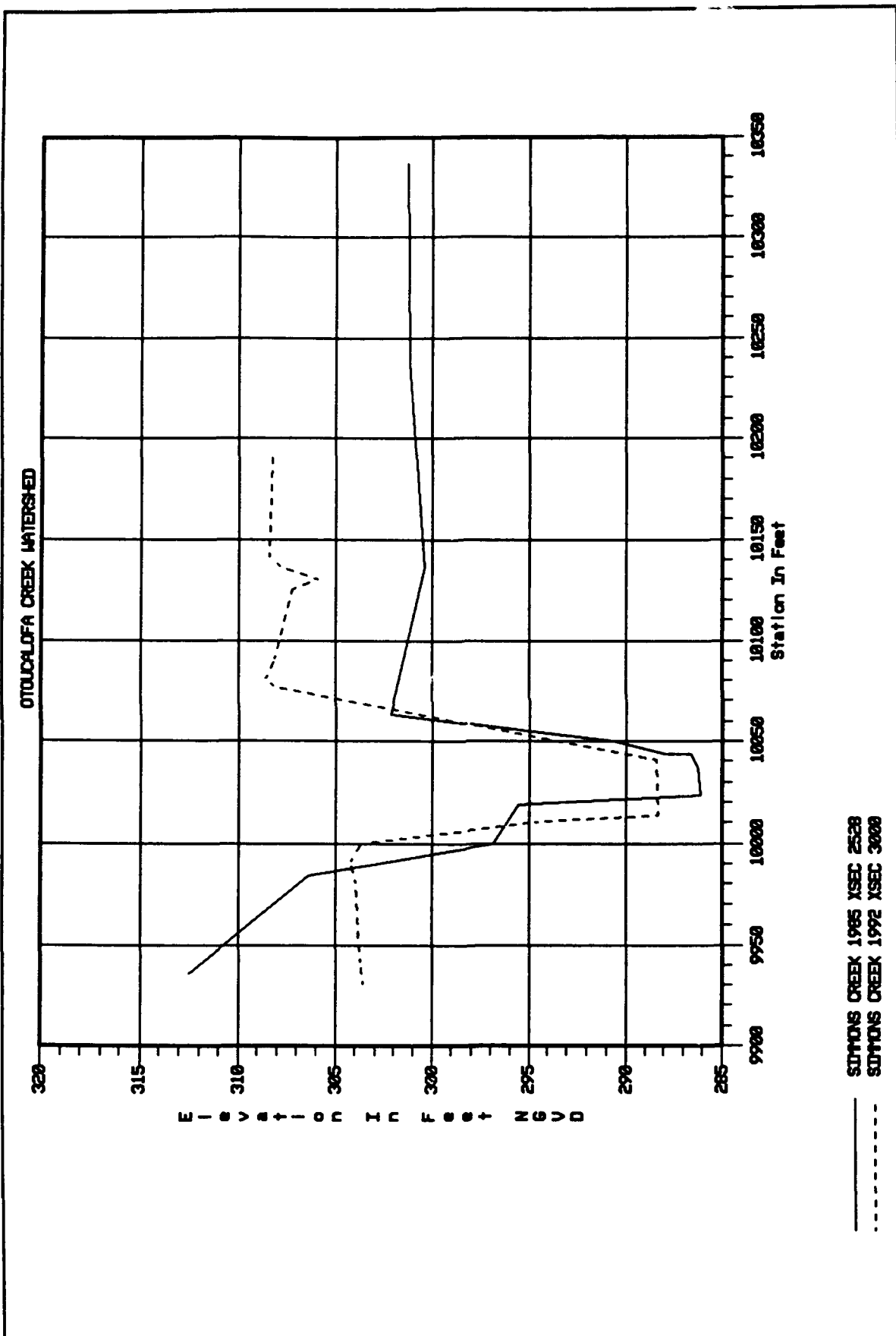
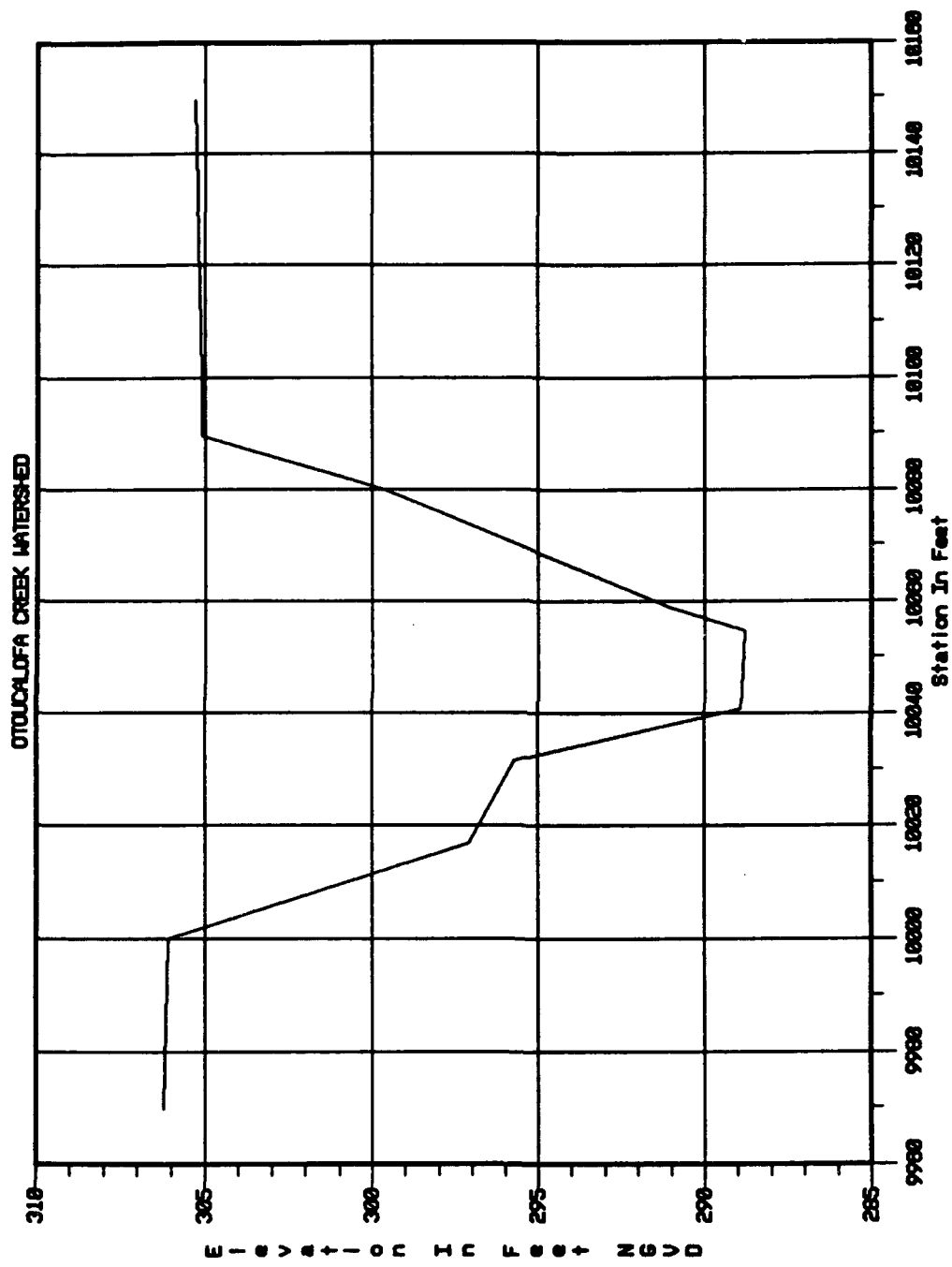


Plate C152



—— SOMMONS CREEK 1985 XSEC 3282

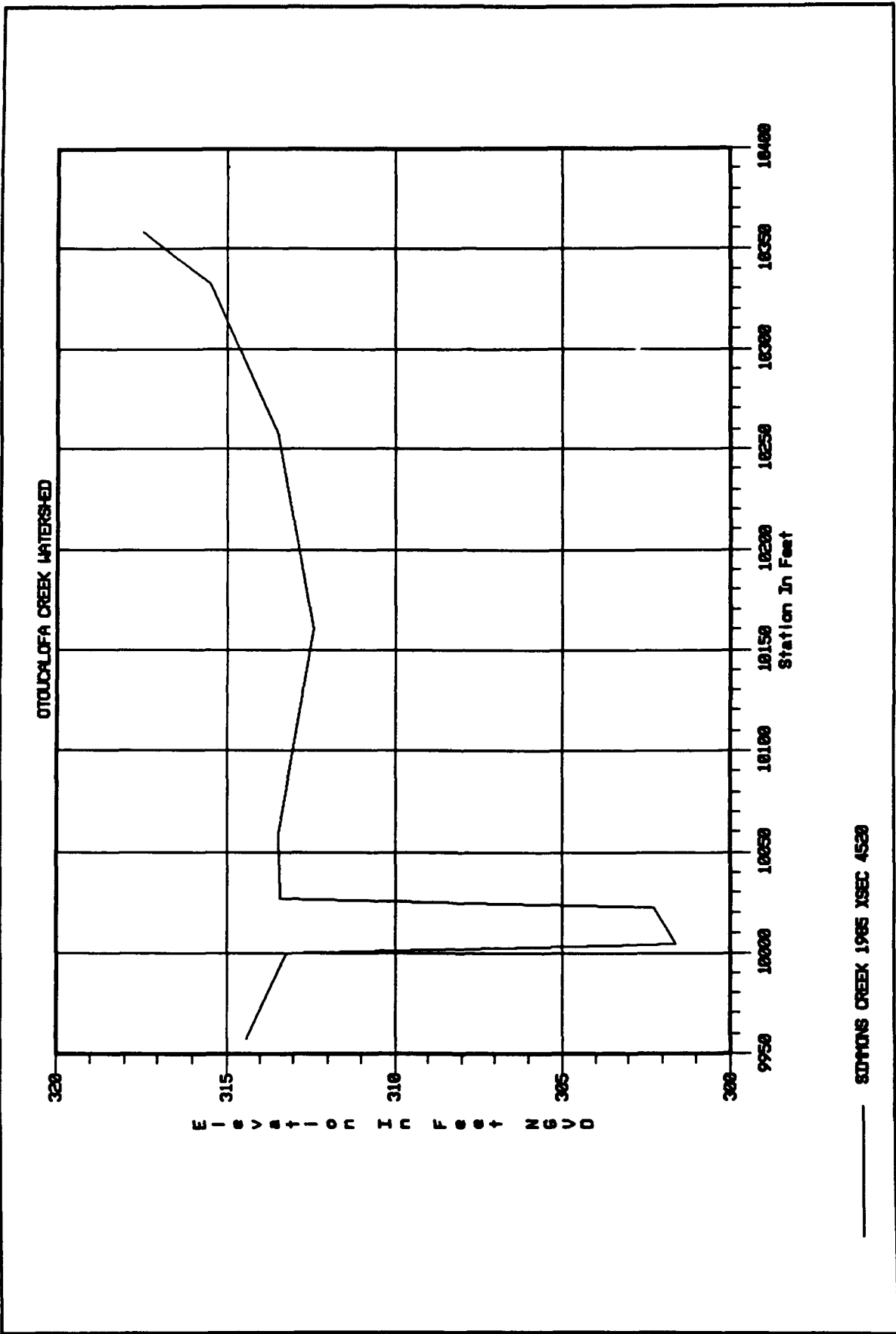
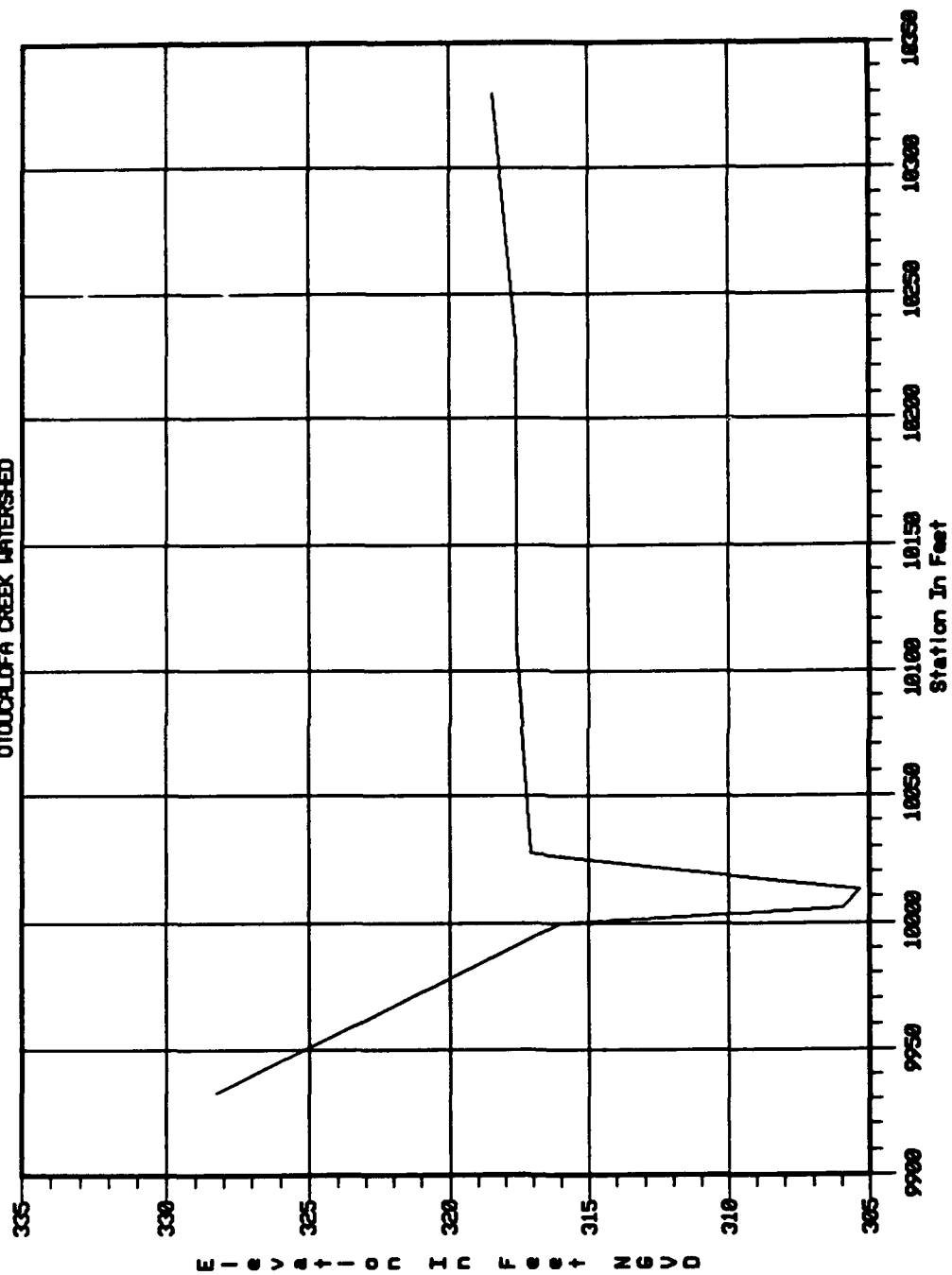


Plate C154

OTOLUOLA CREEK WATERSHED



OTULOLA CREEK 1985 XSET: 5120

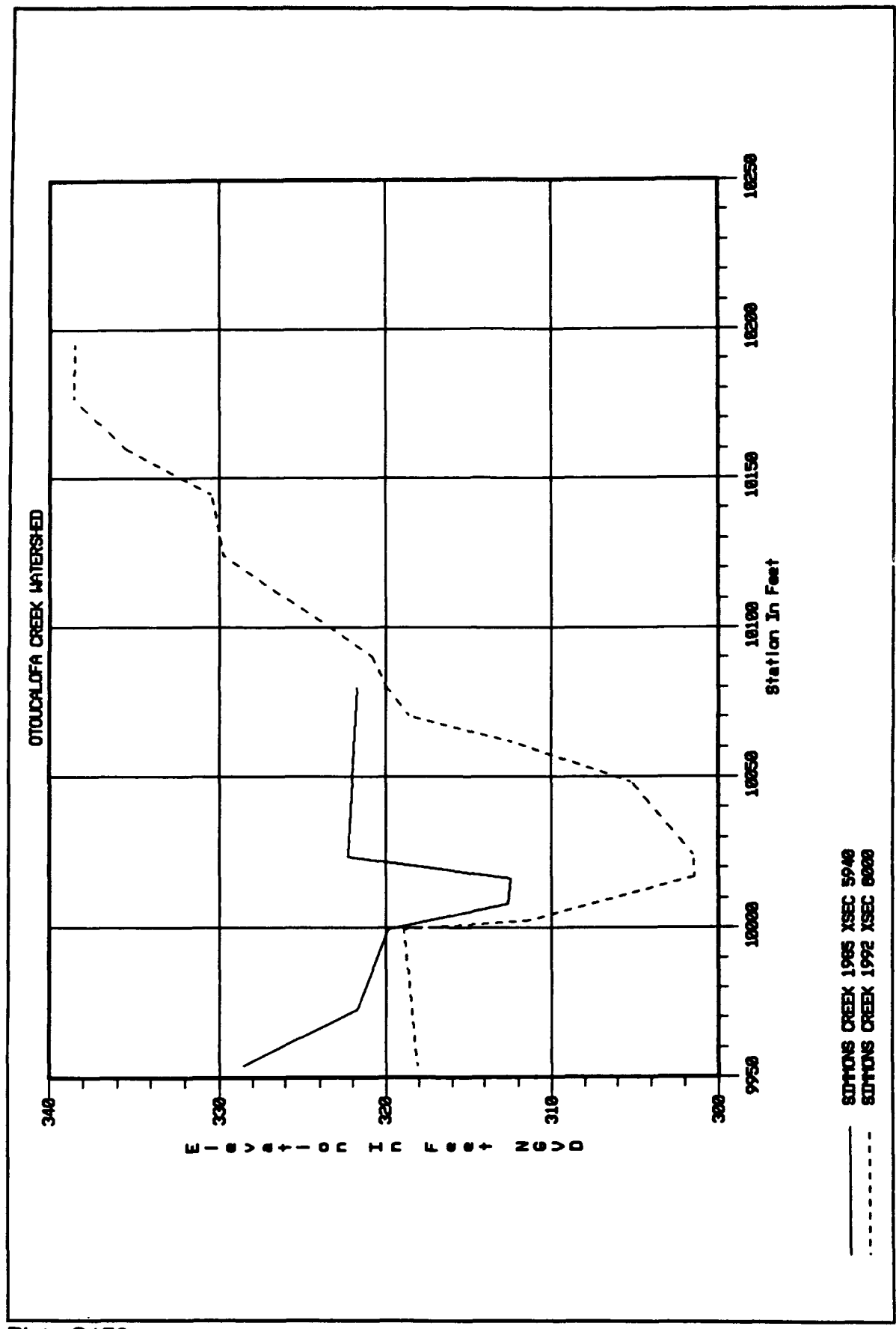
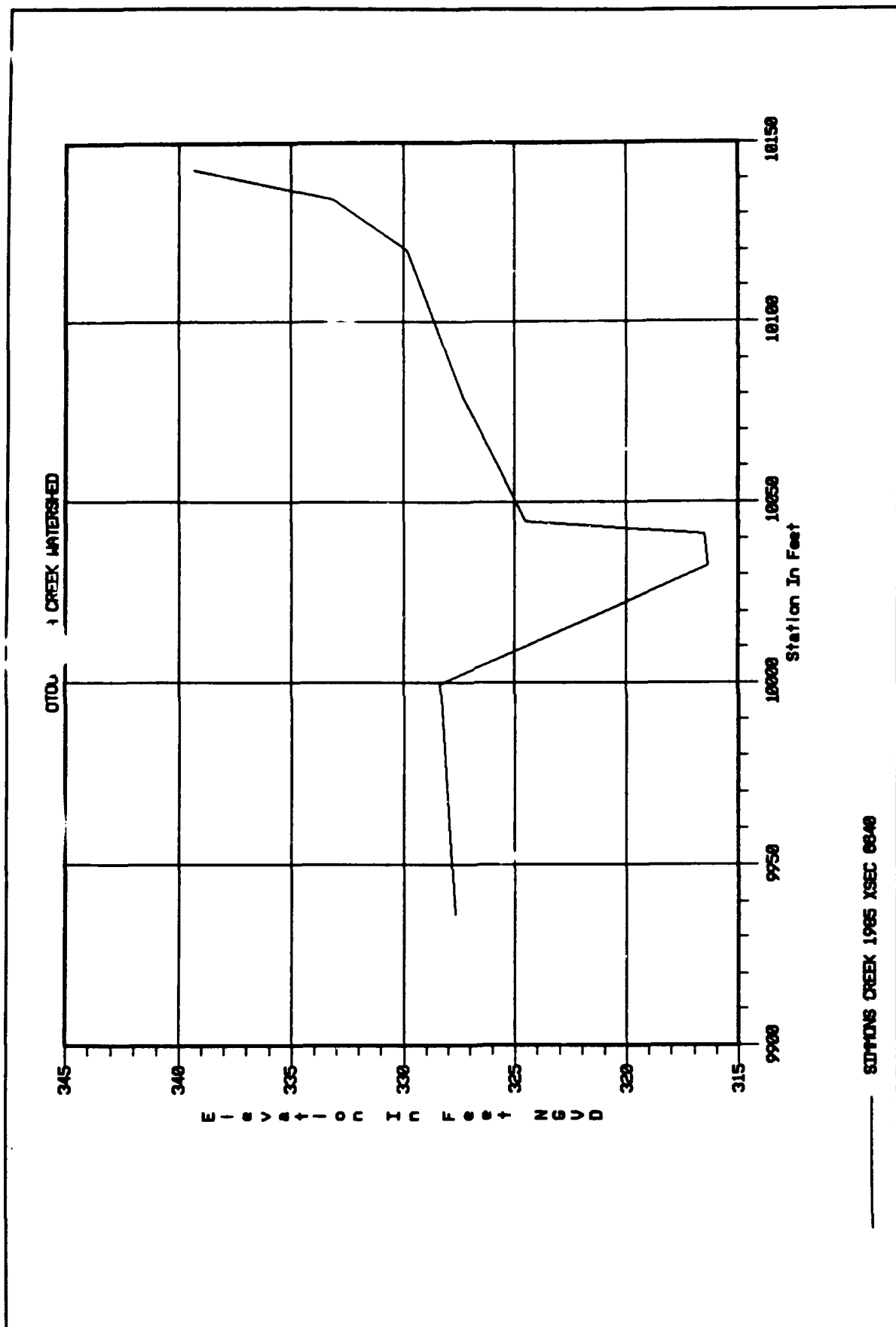


Plate C156



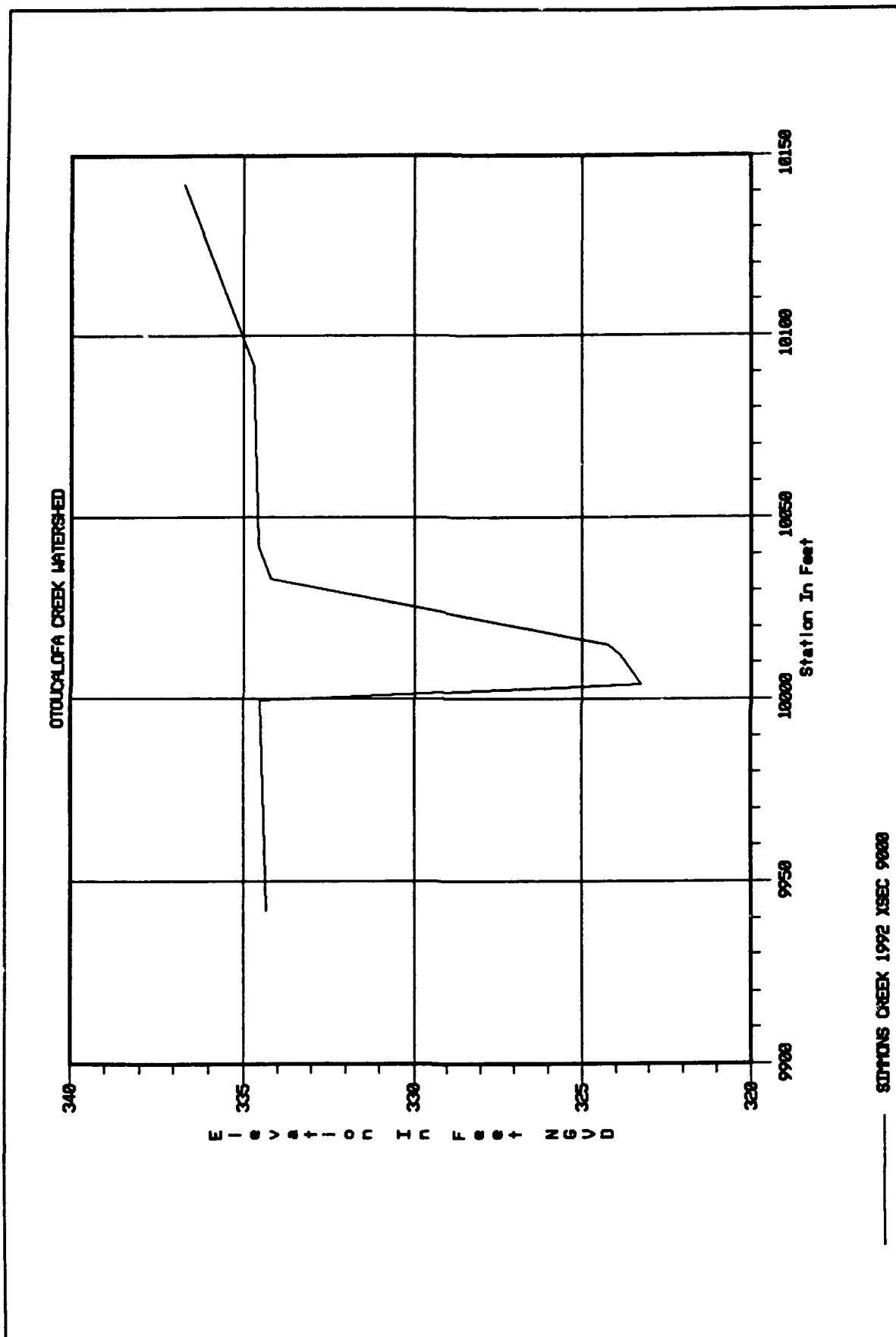
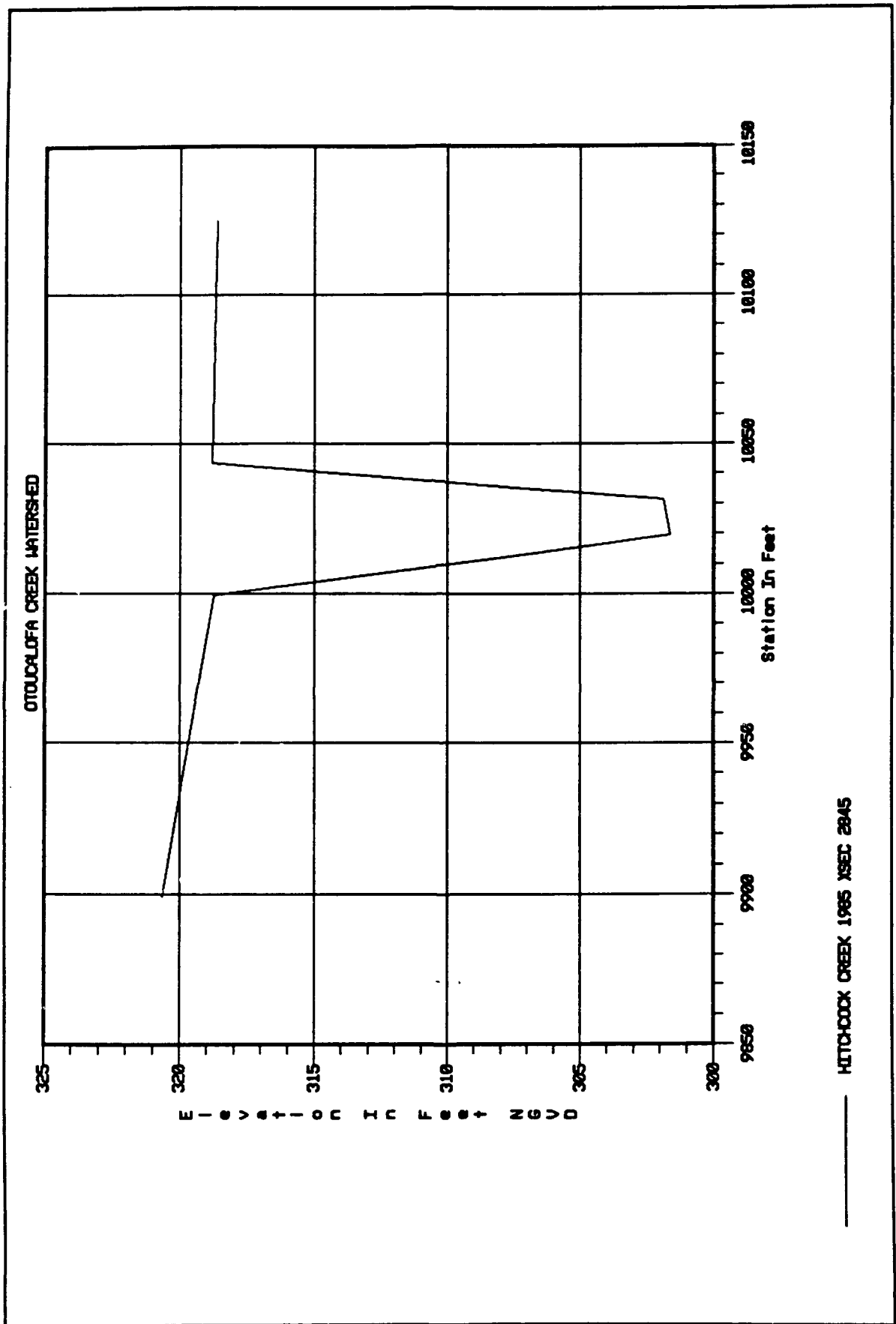


Plate C158



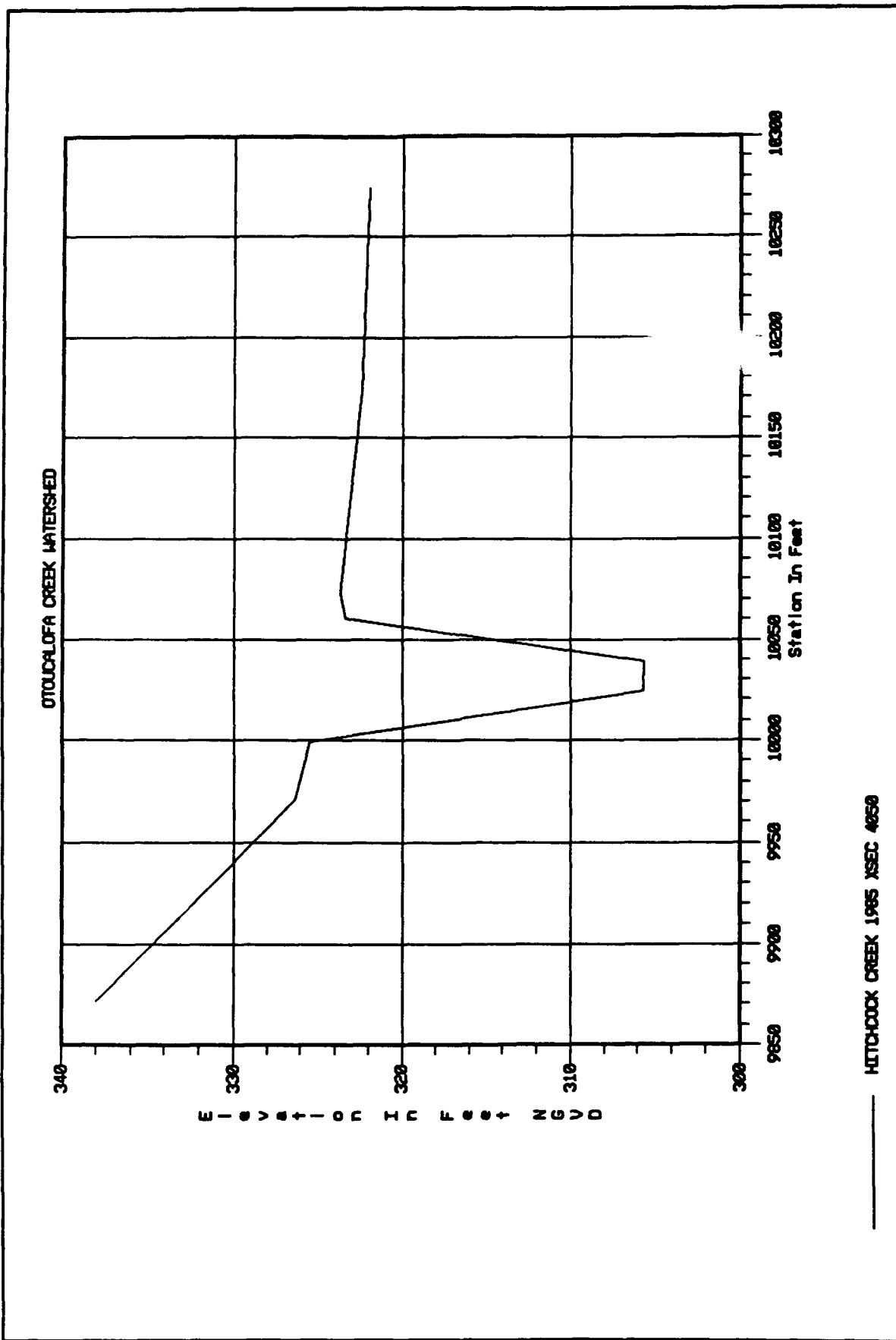
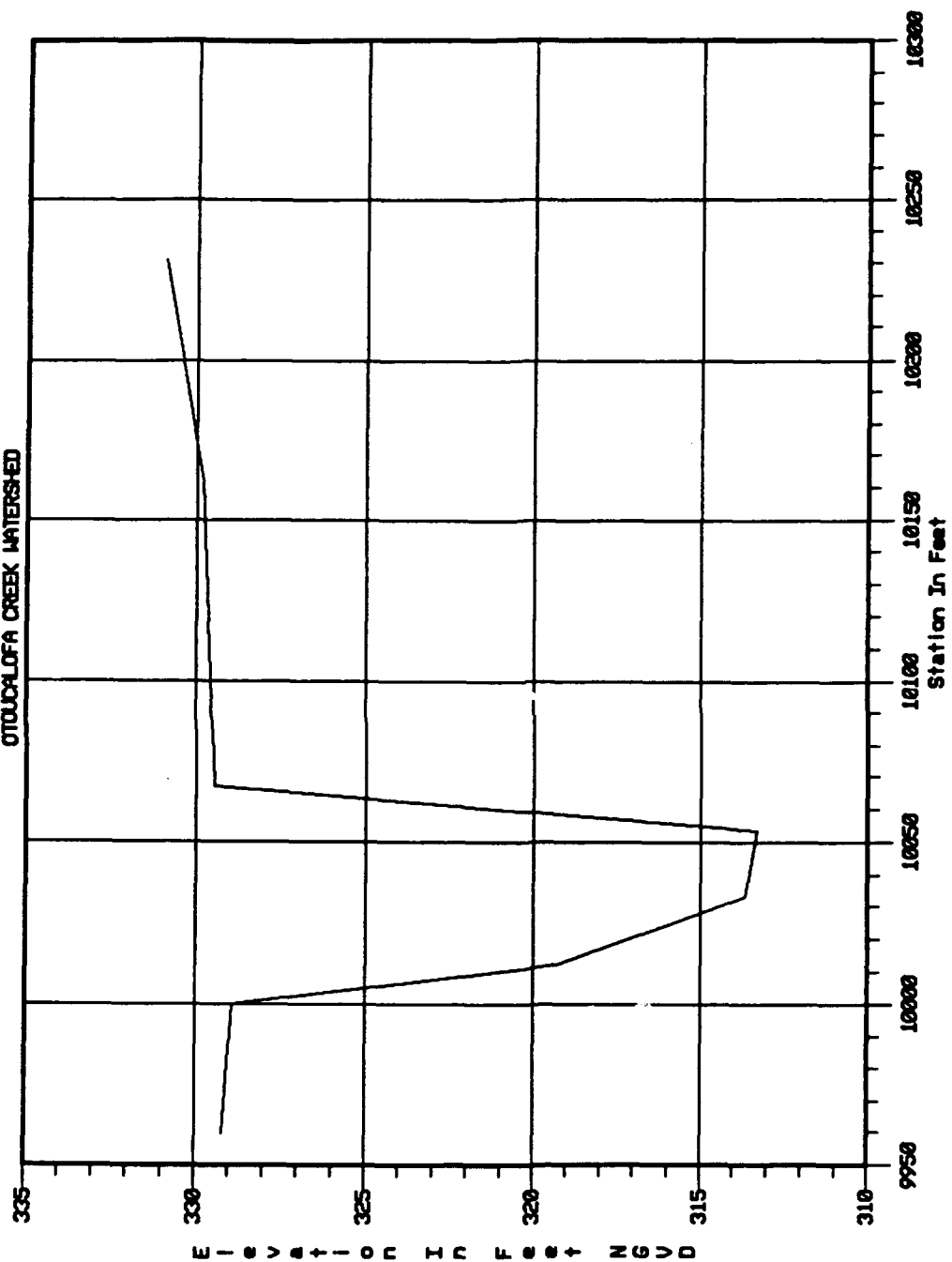


Plate C160

OTUOLLOFA CREEK WATERSHED



— HITCHCOCK CREEK 1985 XSEC 5135

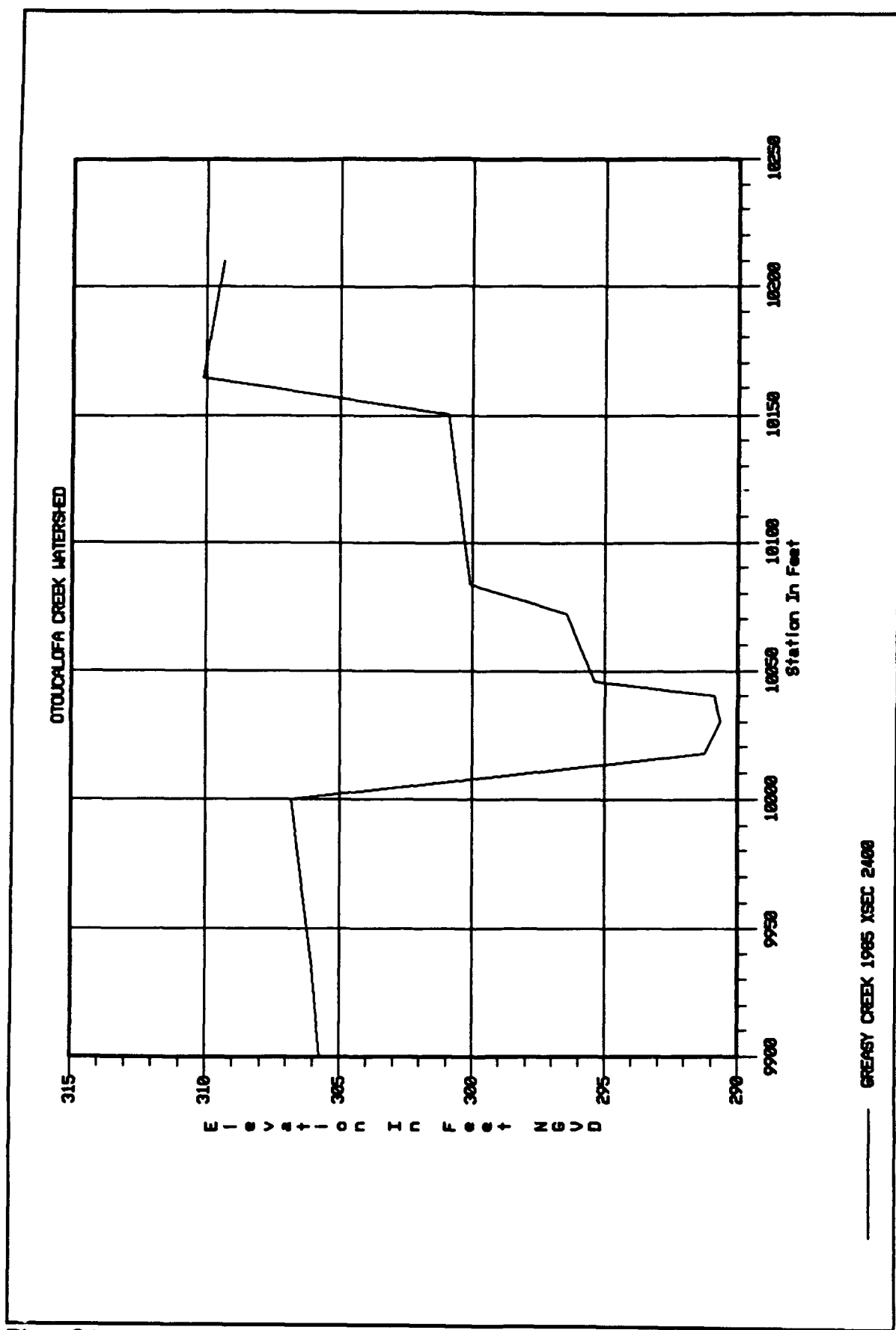
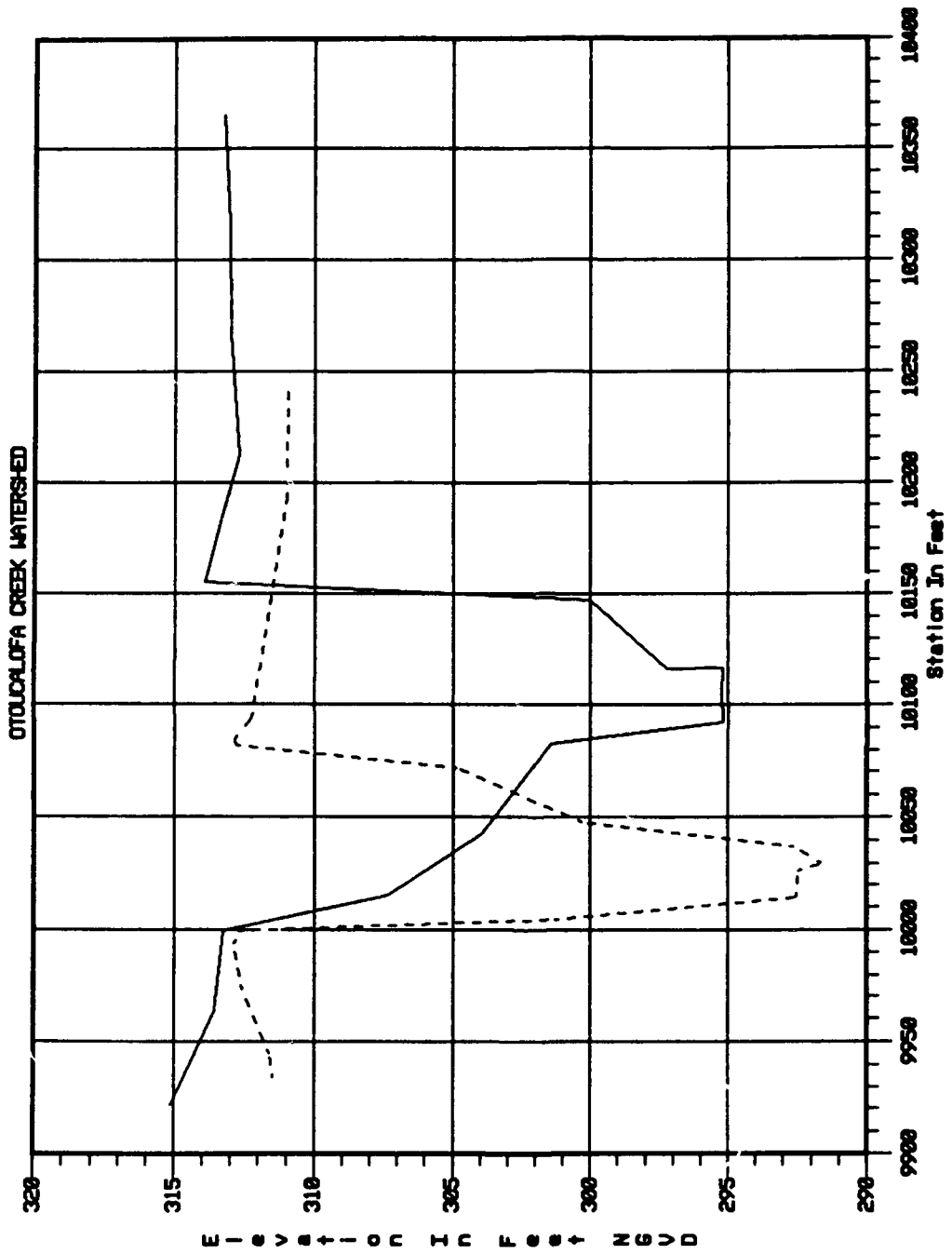


Plate C162



— GREASY CREEK 1985 XSEC 3800
 - - - GREASY CREEK 1992 XSEC 3800

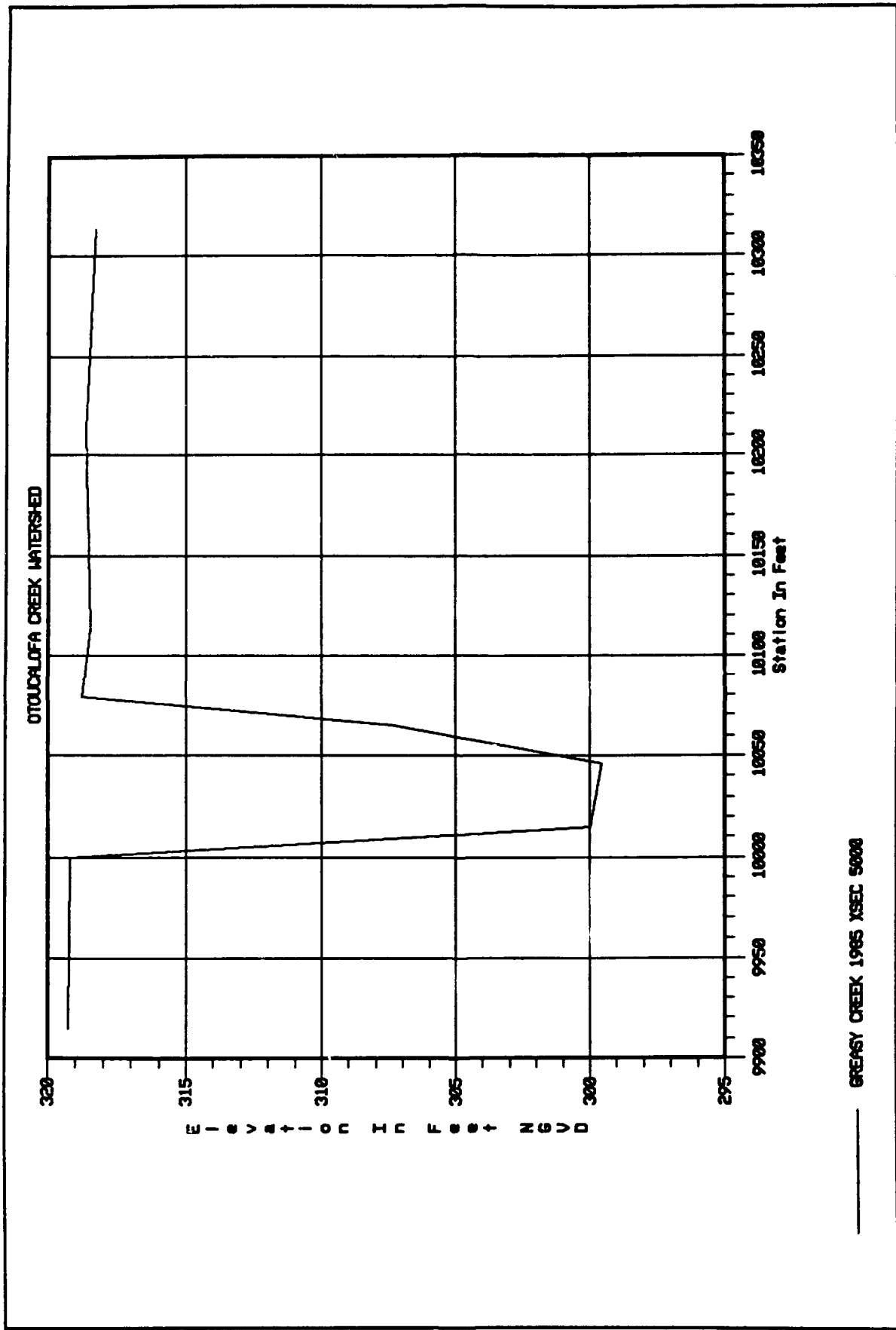
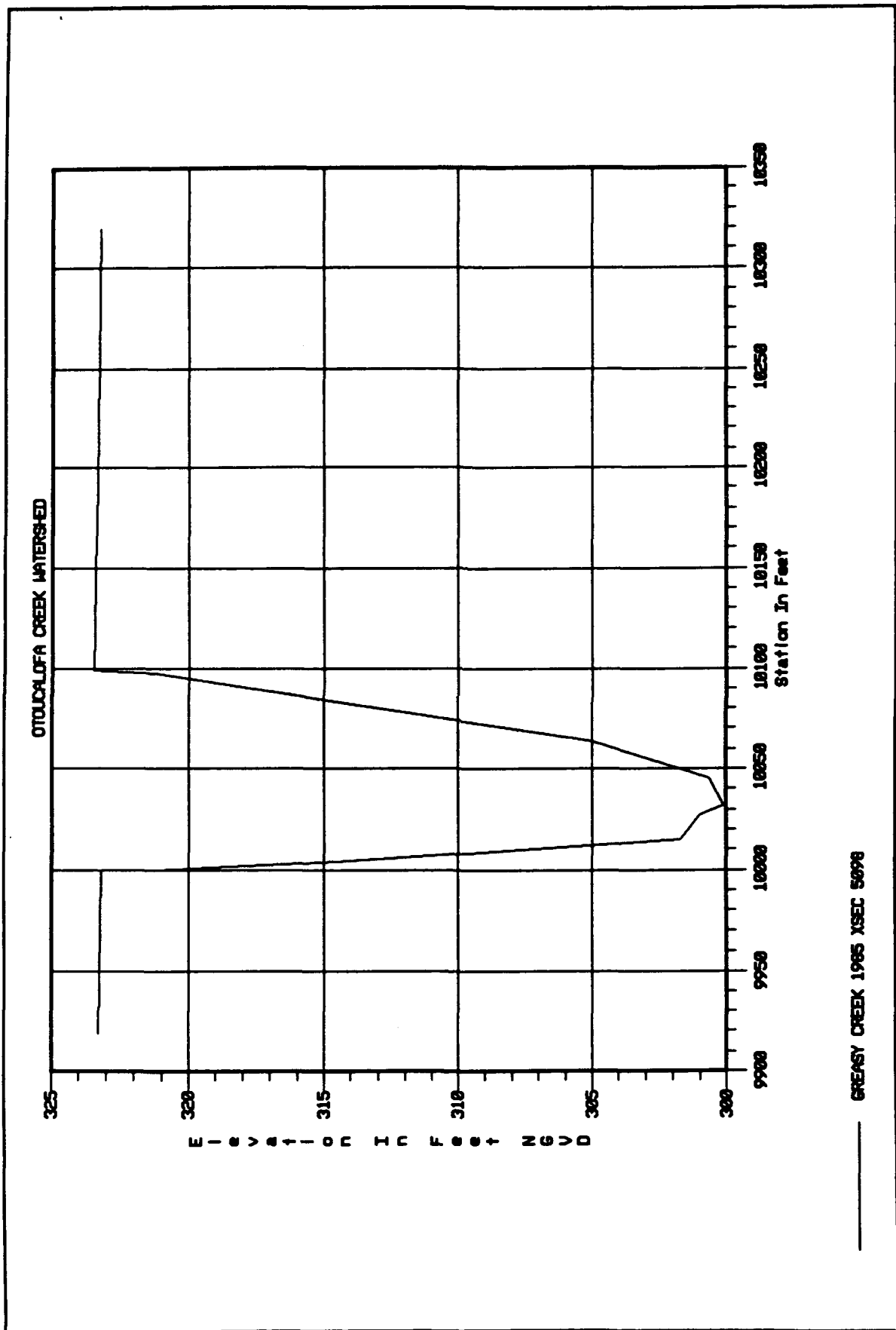


Plate C164



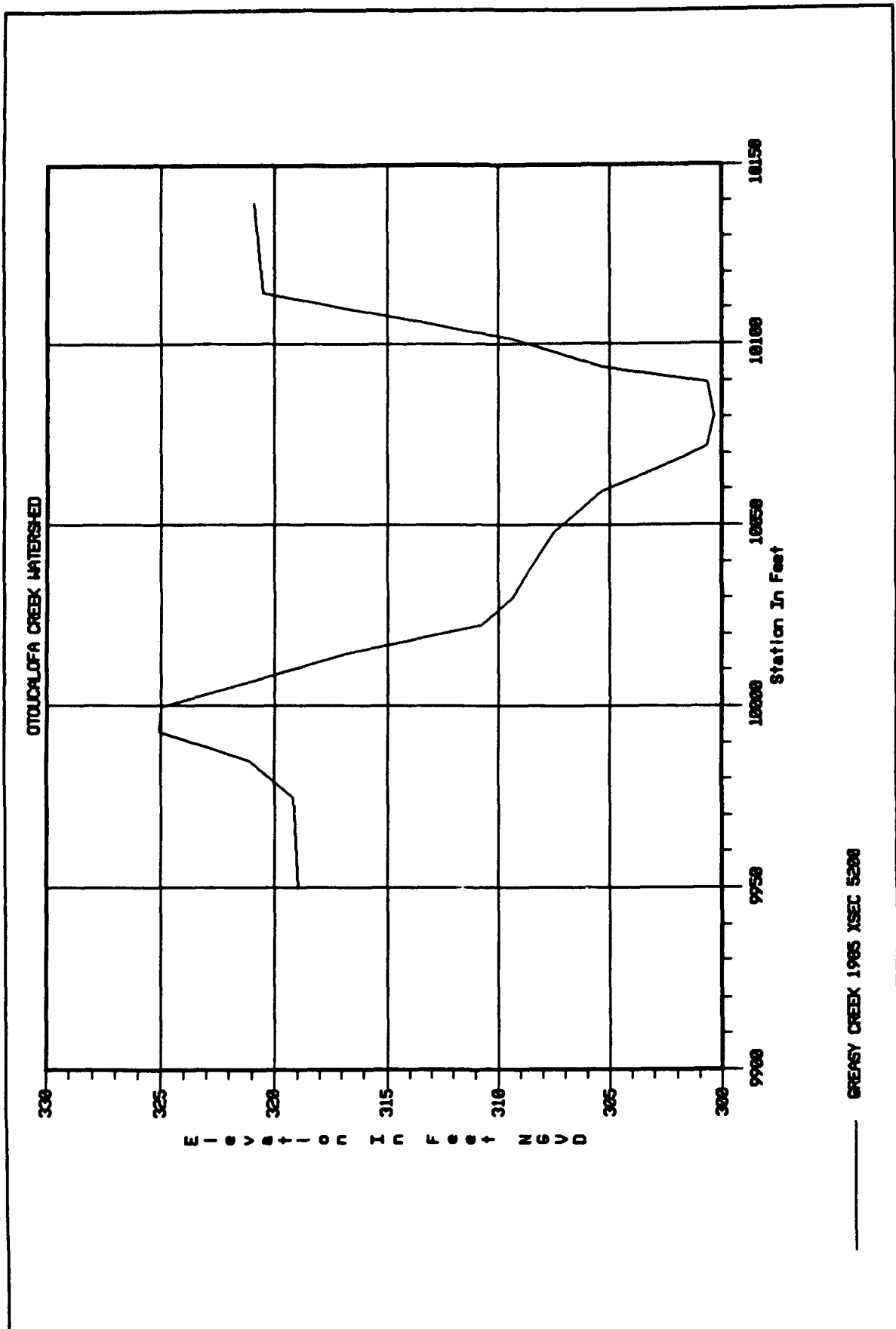
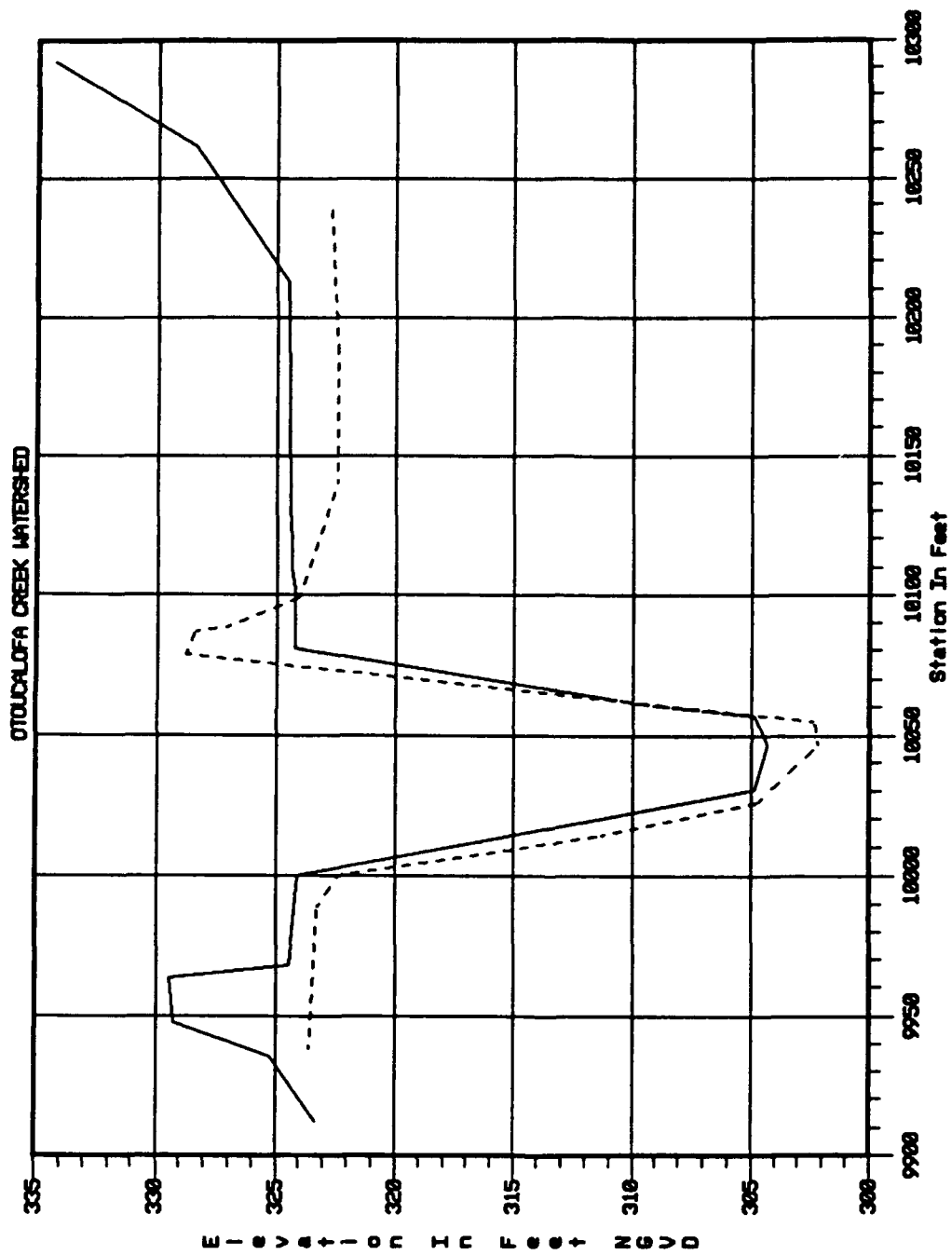


Plate C166



— GREASY CREEK 1985 XSEC 0500
 - - - GREASY CREEK 1992 XSEC 0000

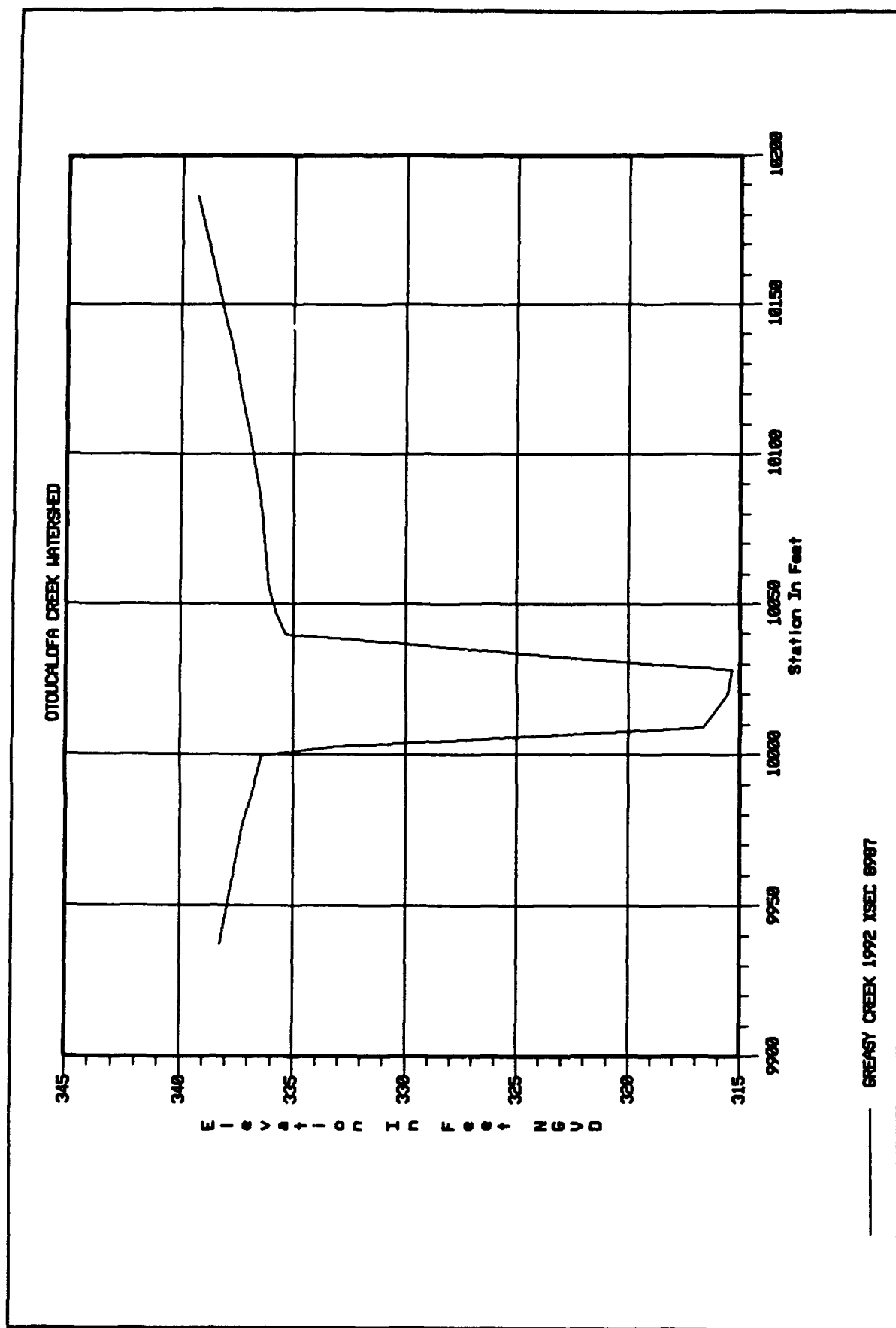
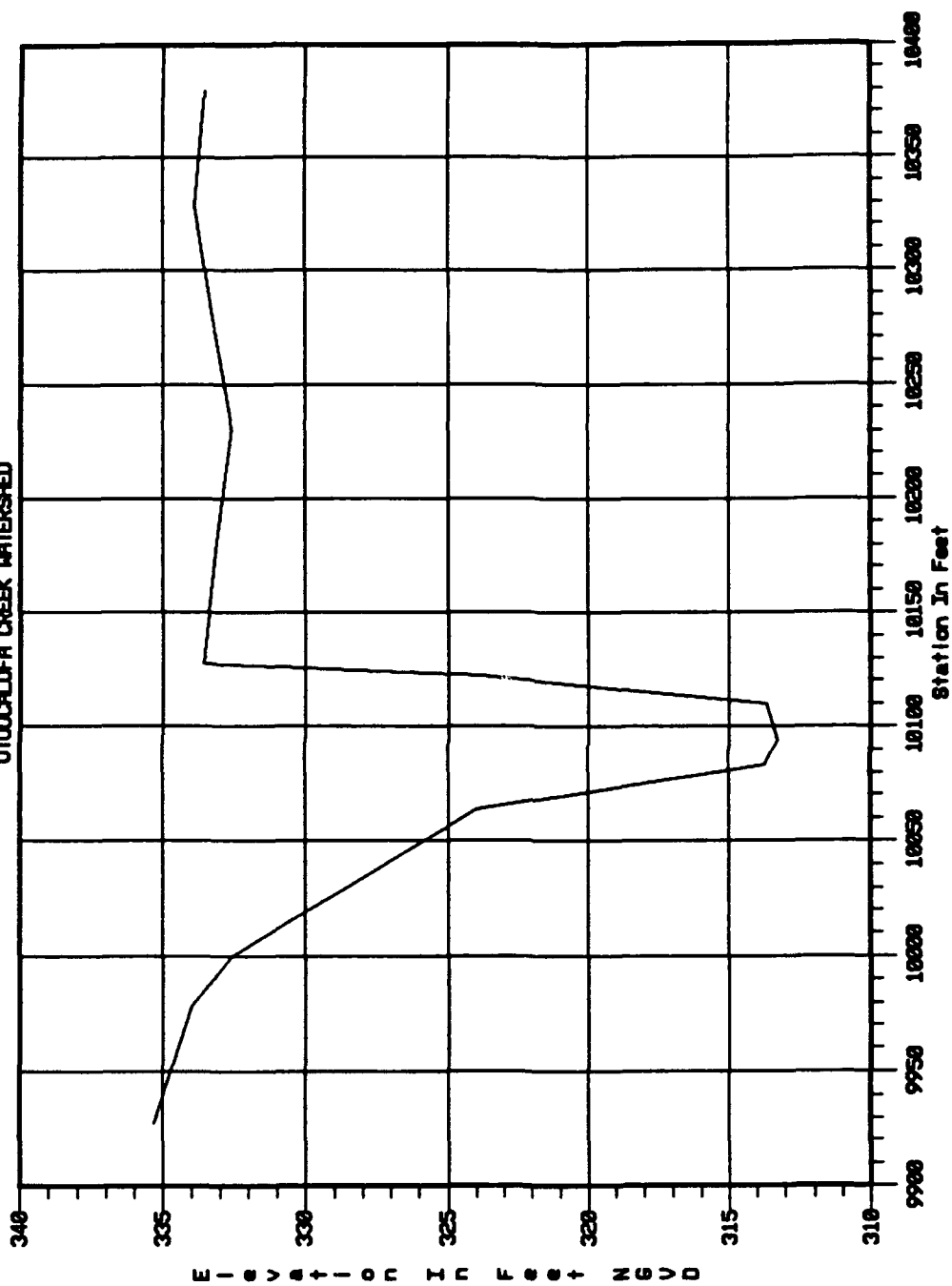


Plate C168

OTOJUALOFA CREEK WATERSHED



GREASY CREEK 1985 XSEC 9108

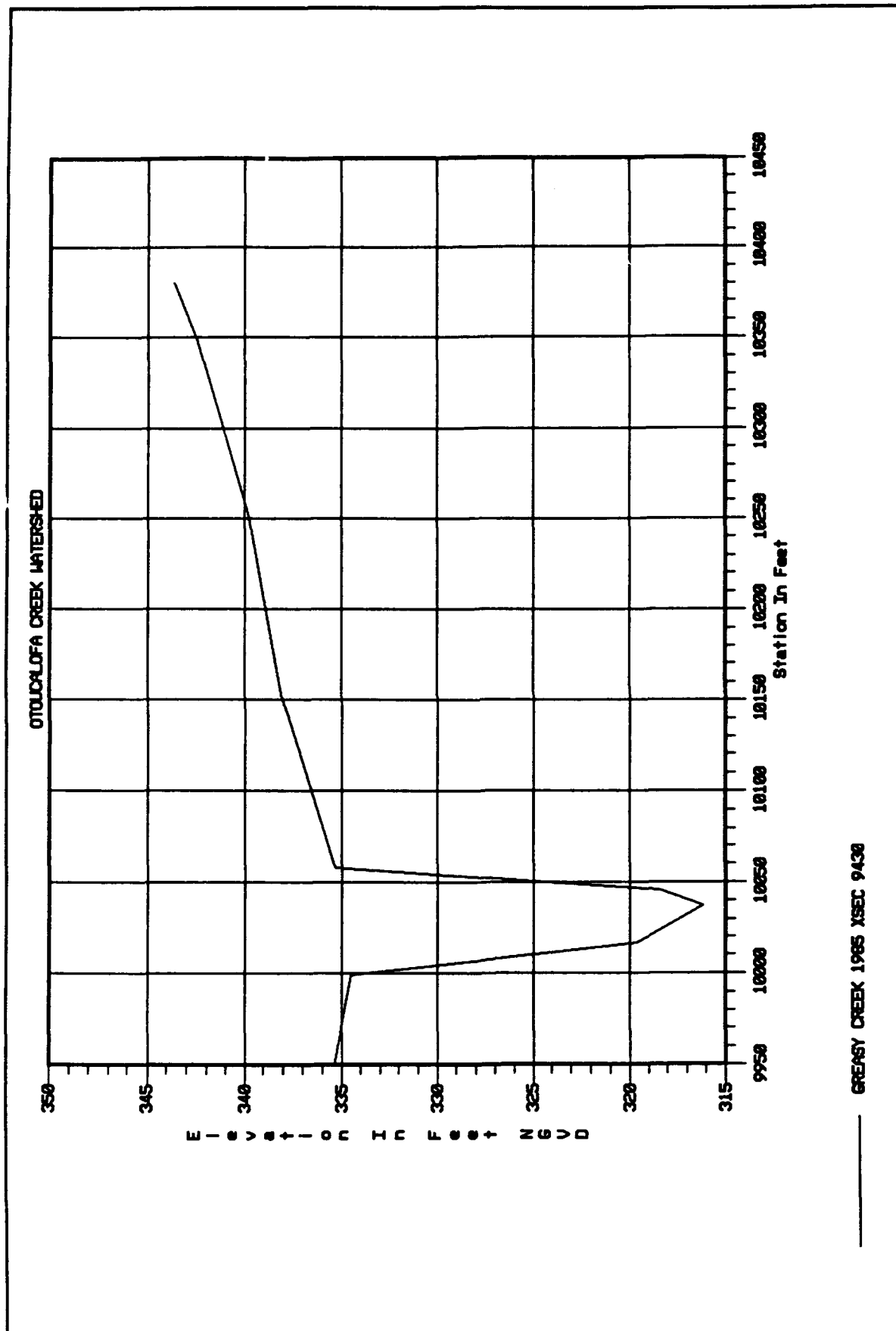
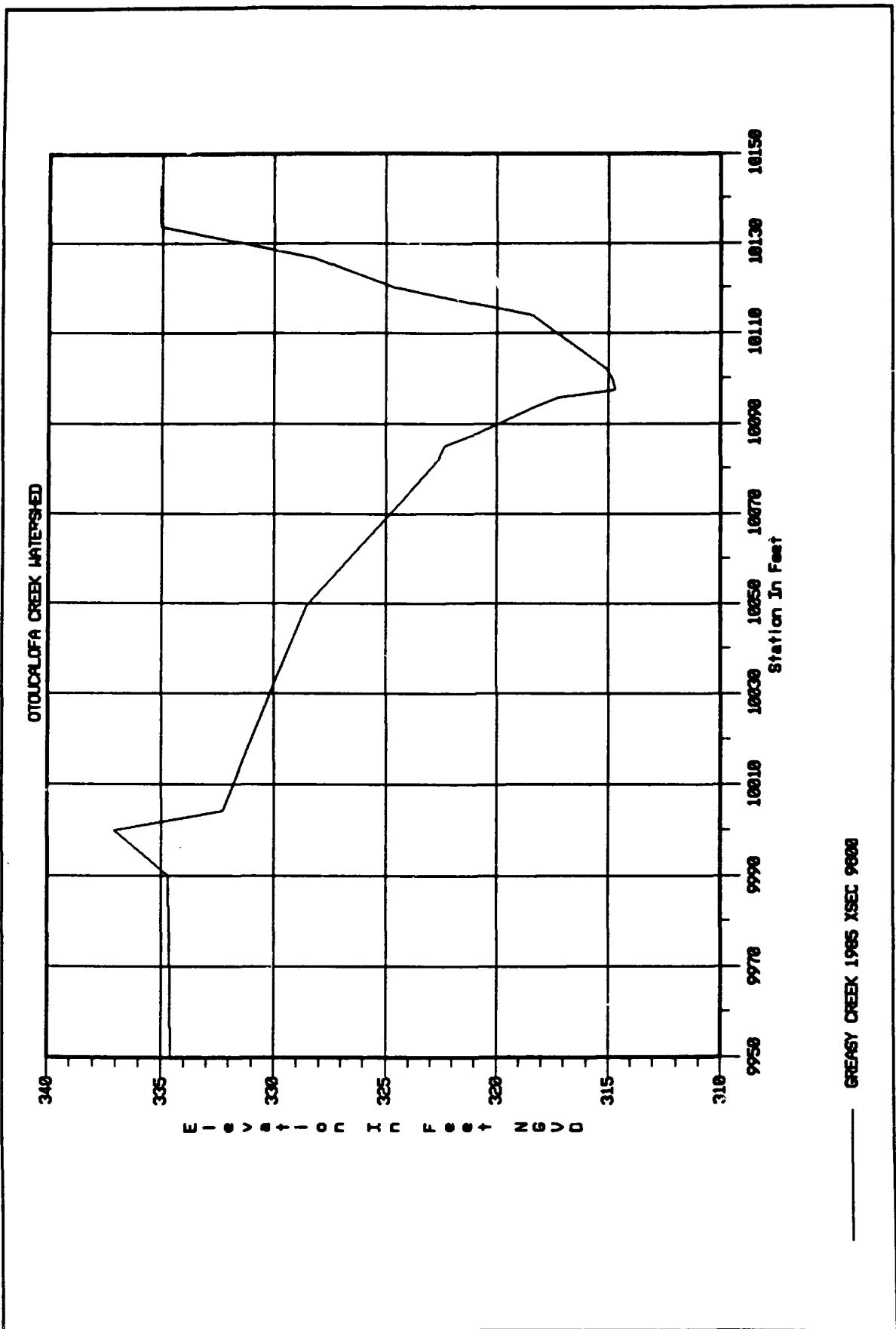


Plate C170



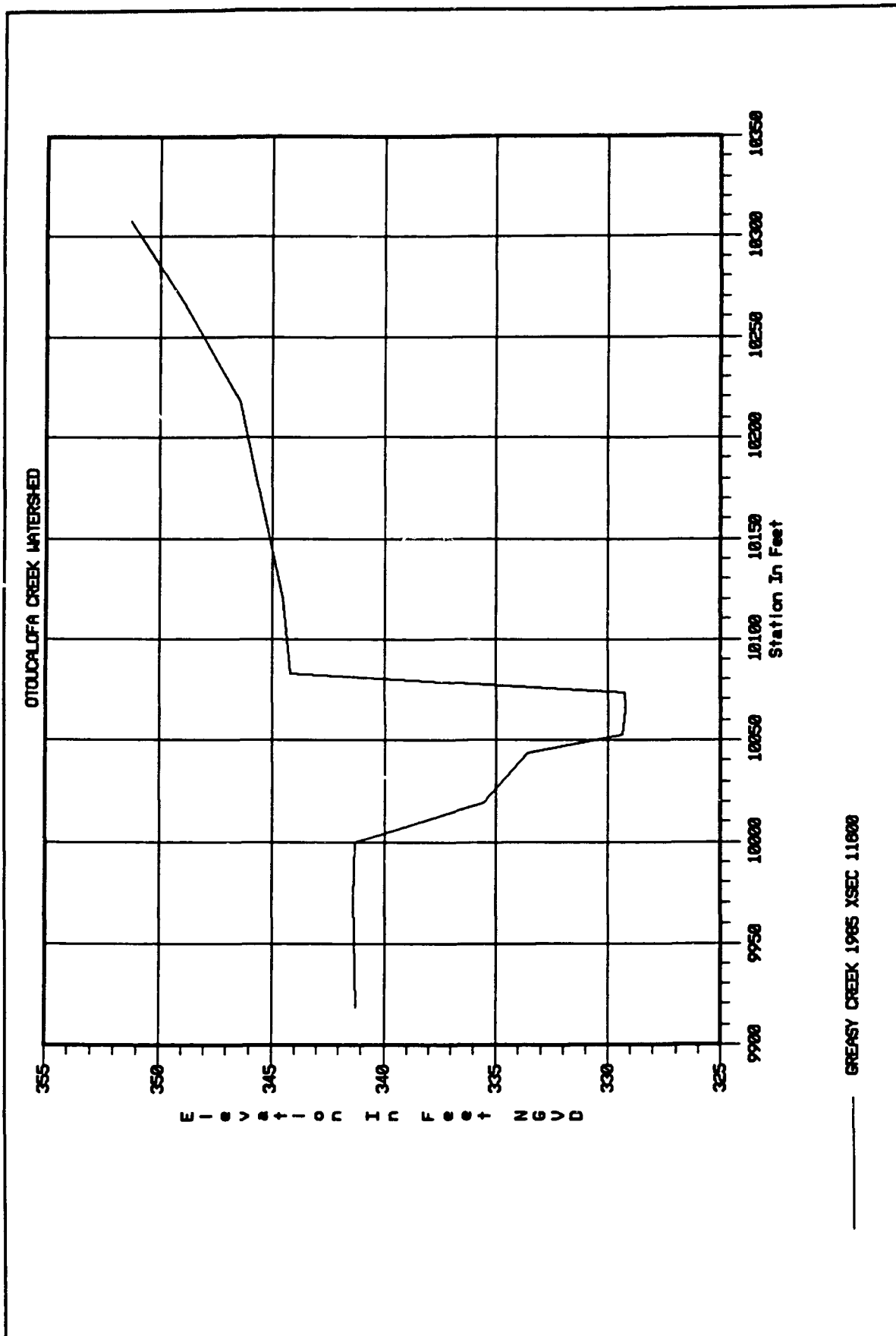
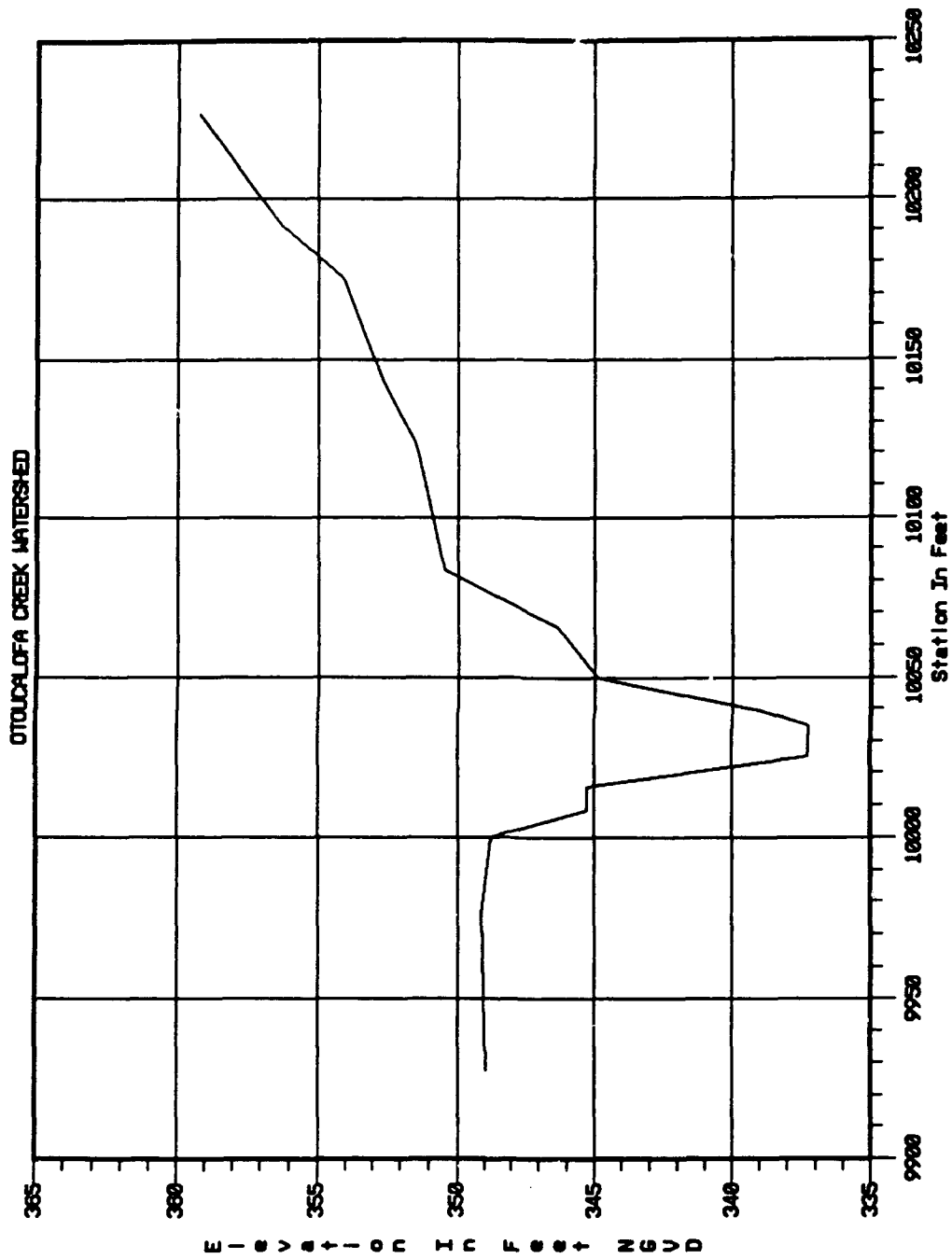


Plate C172



GREASY CREEK 1965 XSEC 13475

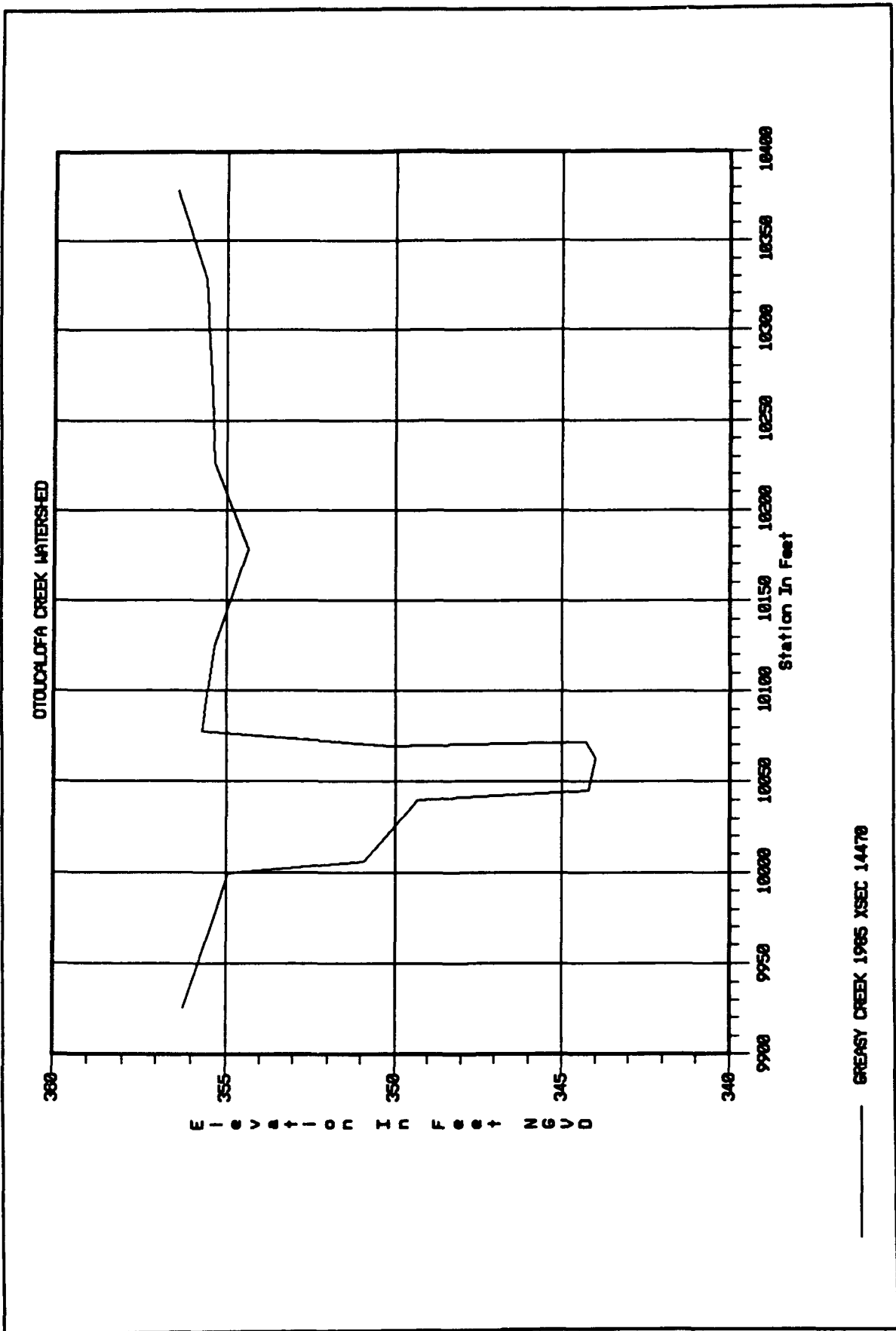
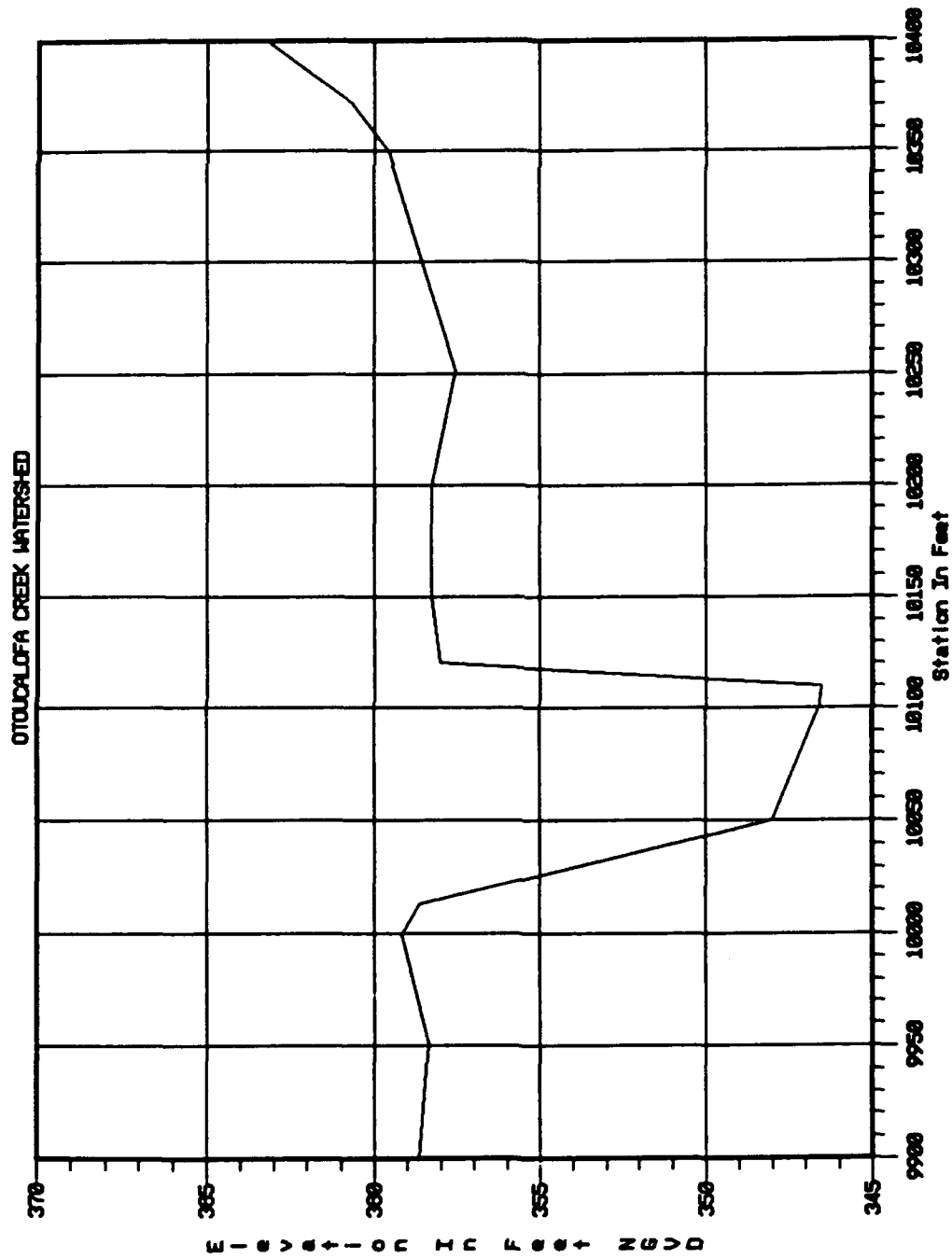


Plate C174



GREASY CREEK 1985 XSEC 15000

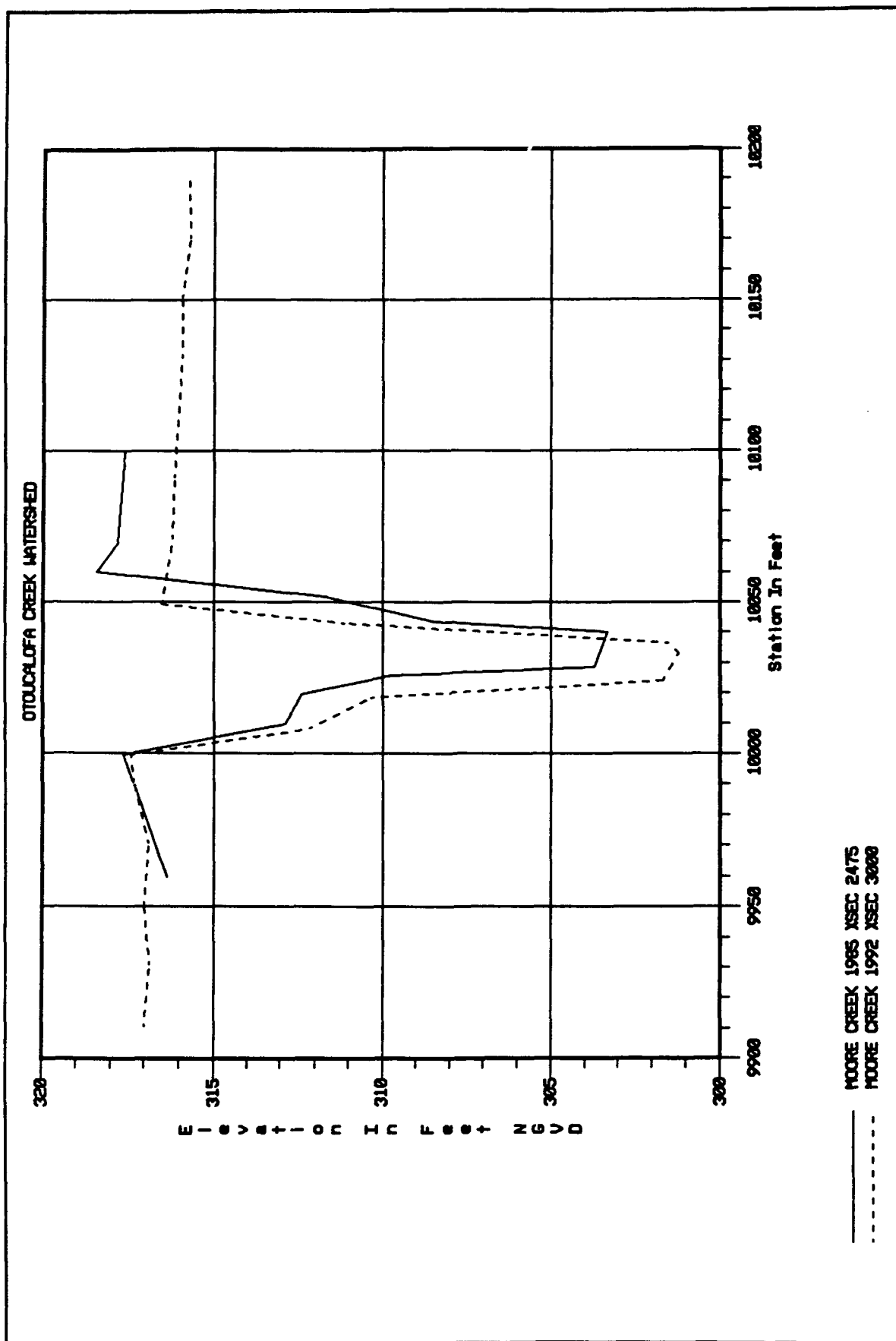
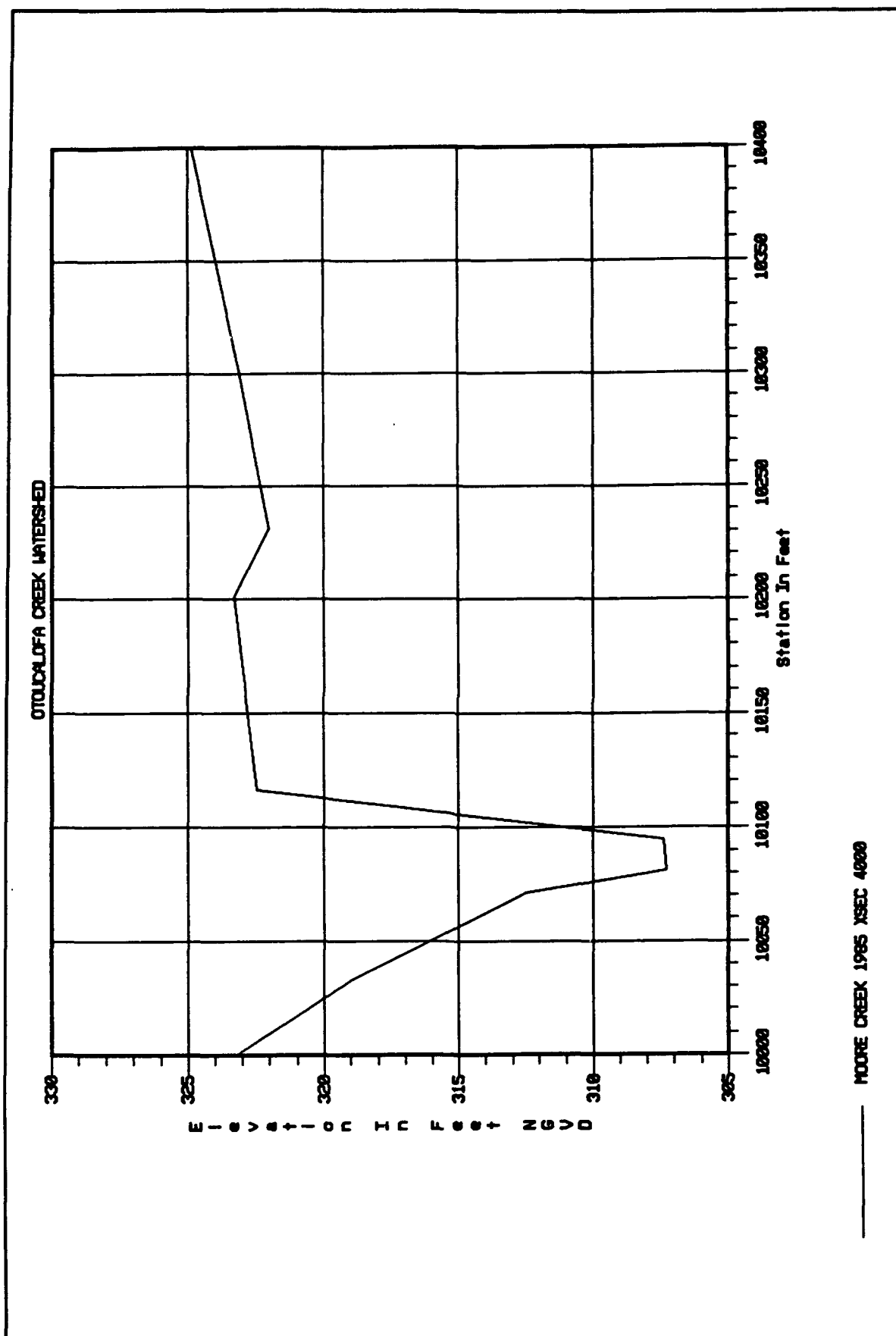


Plate C176



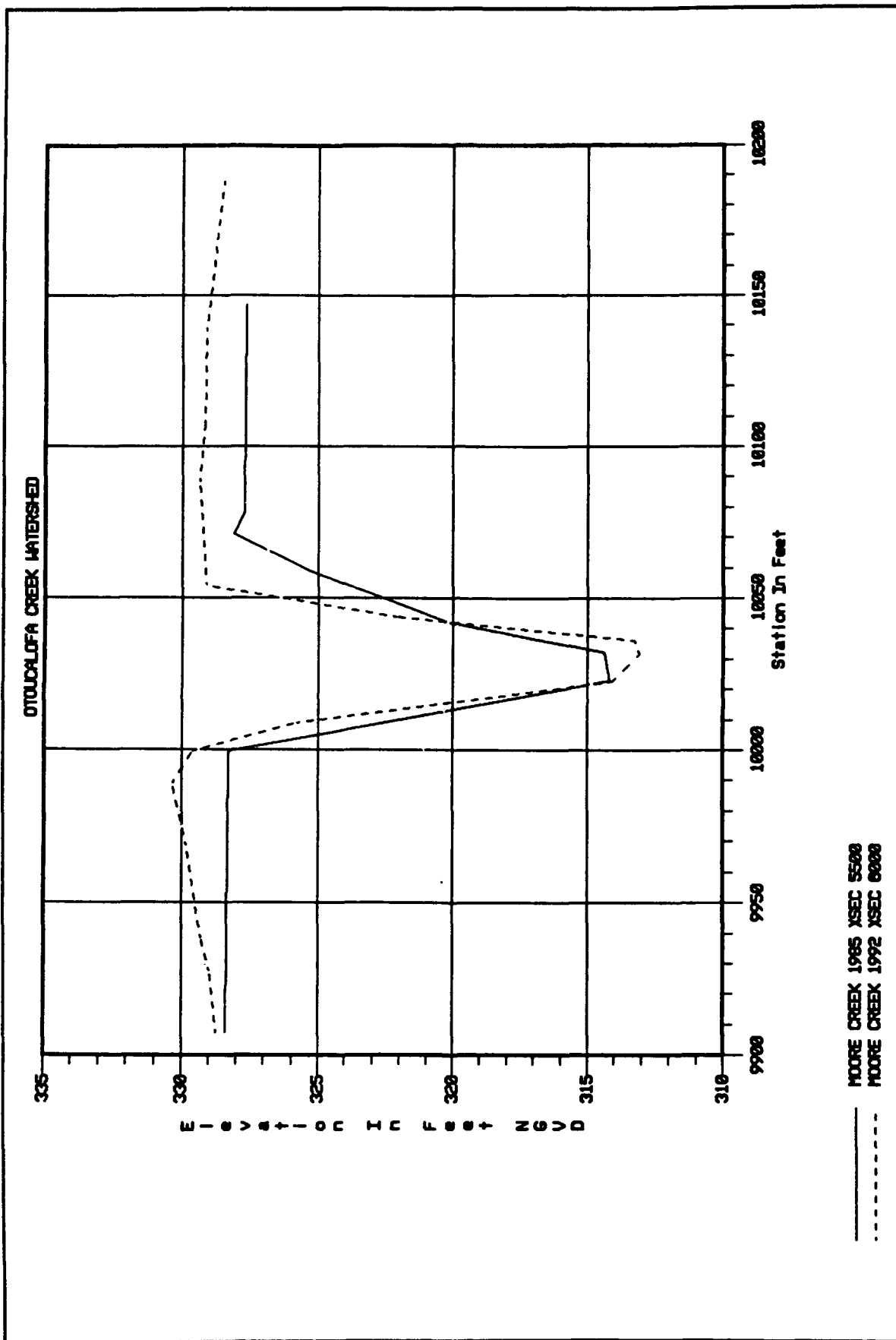
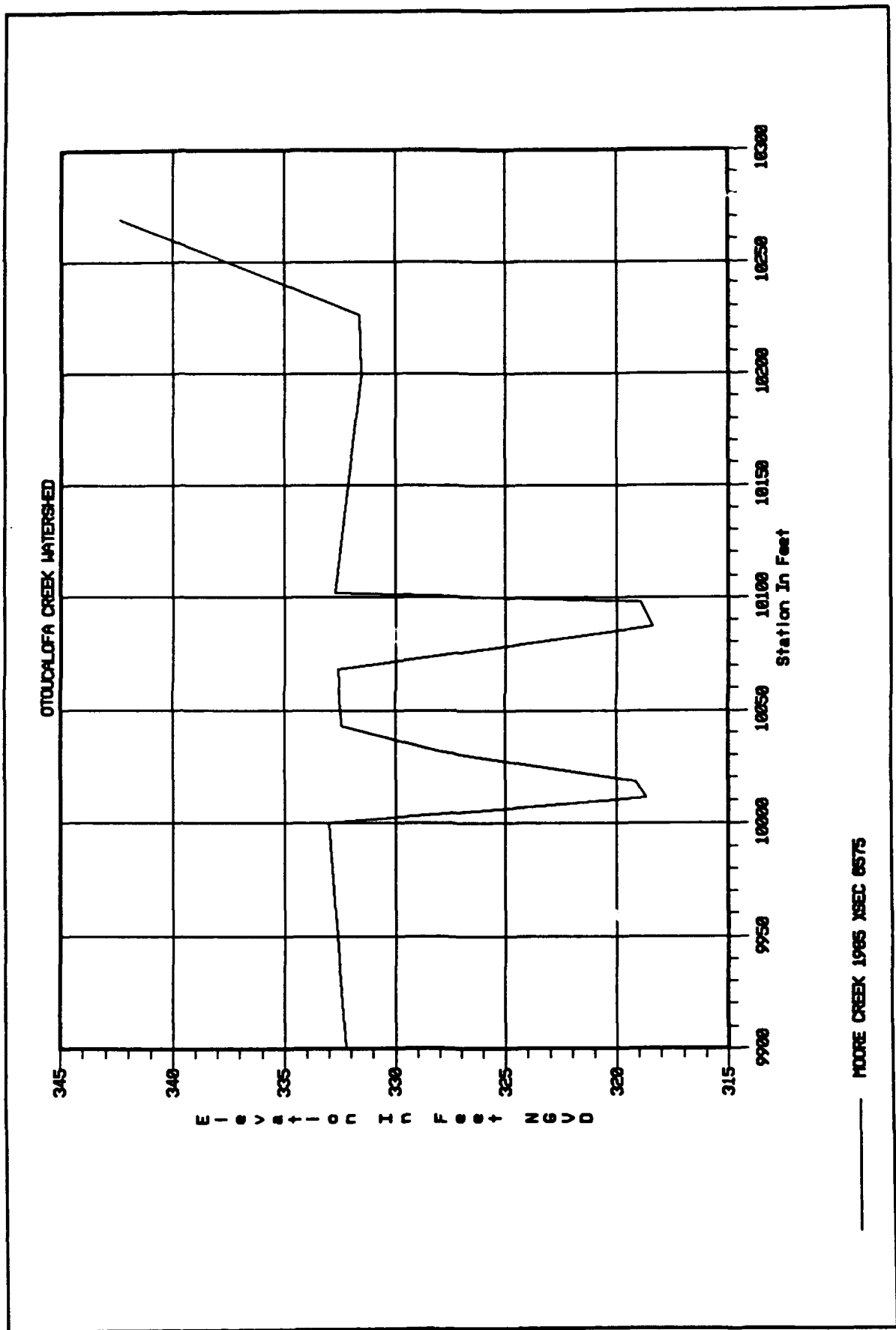


Plate C178



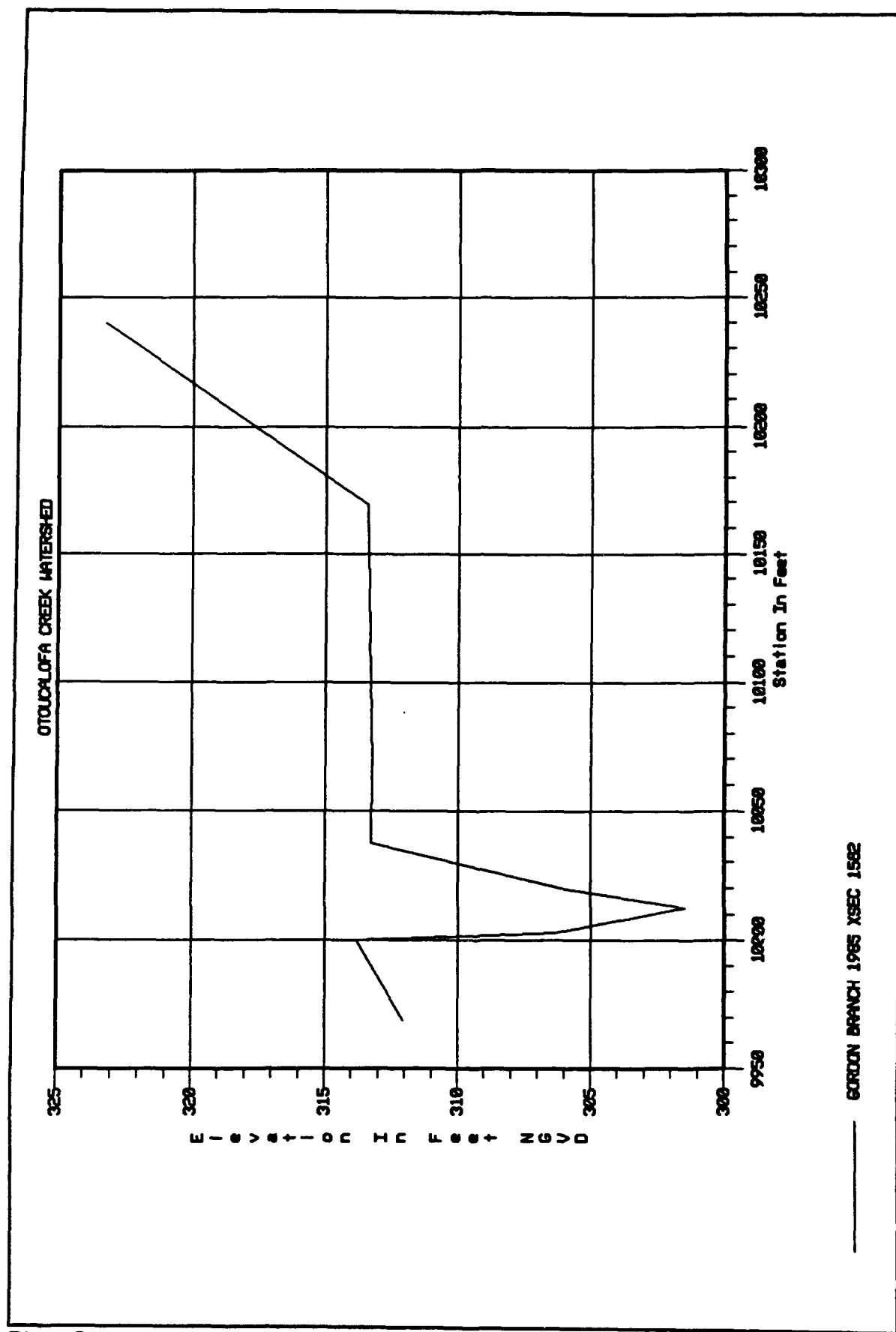
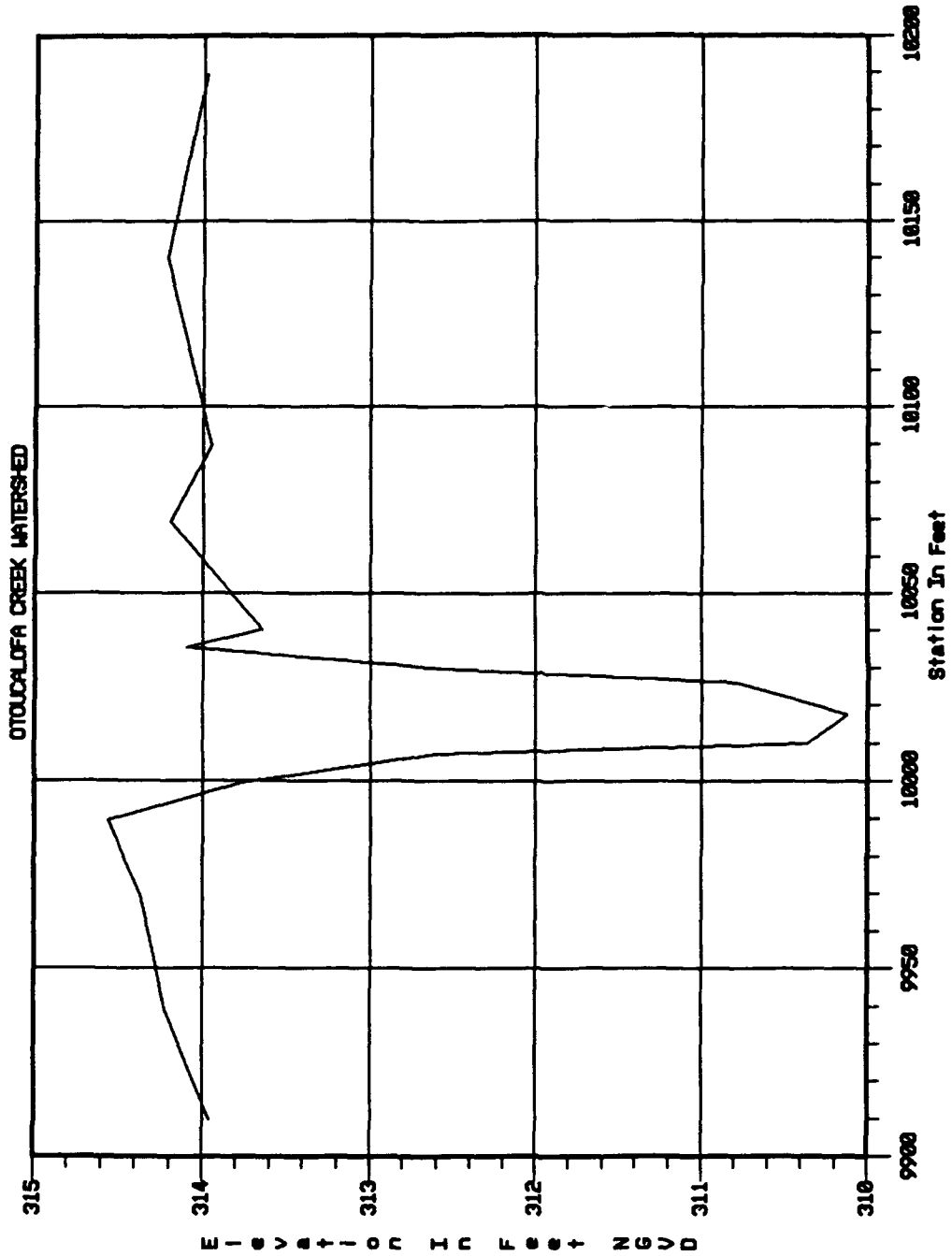


Plate C180



— GORDON BRANCH 1992 XSEC 3000

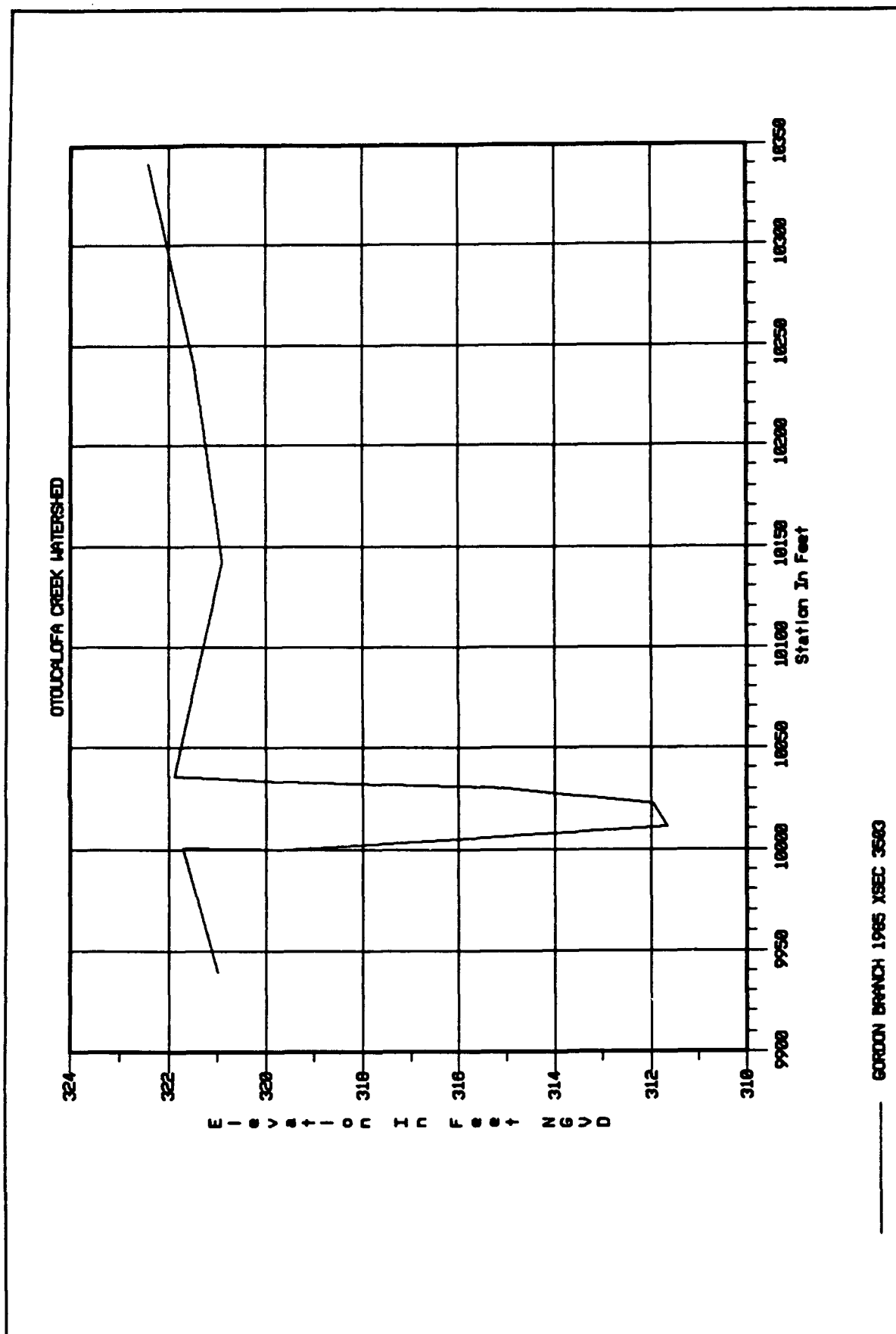
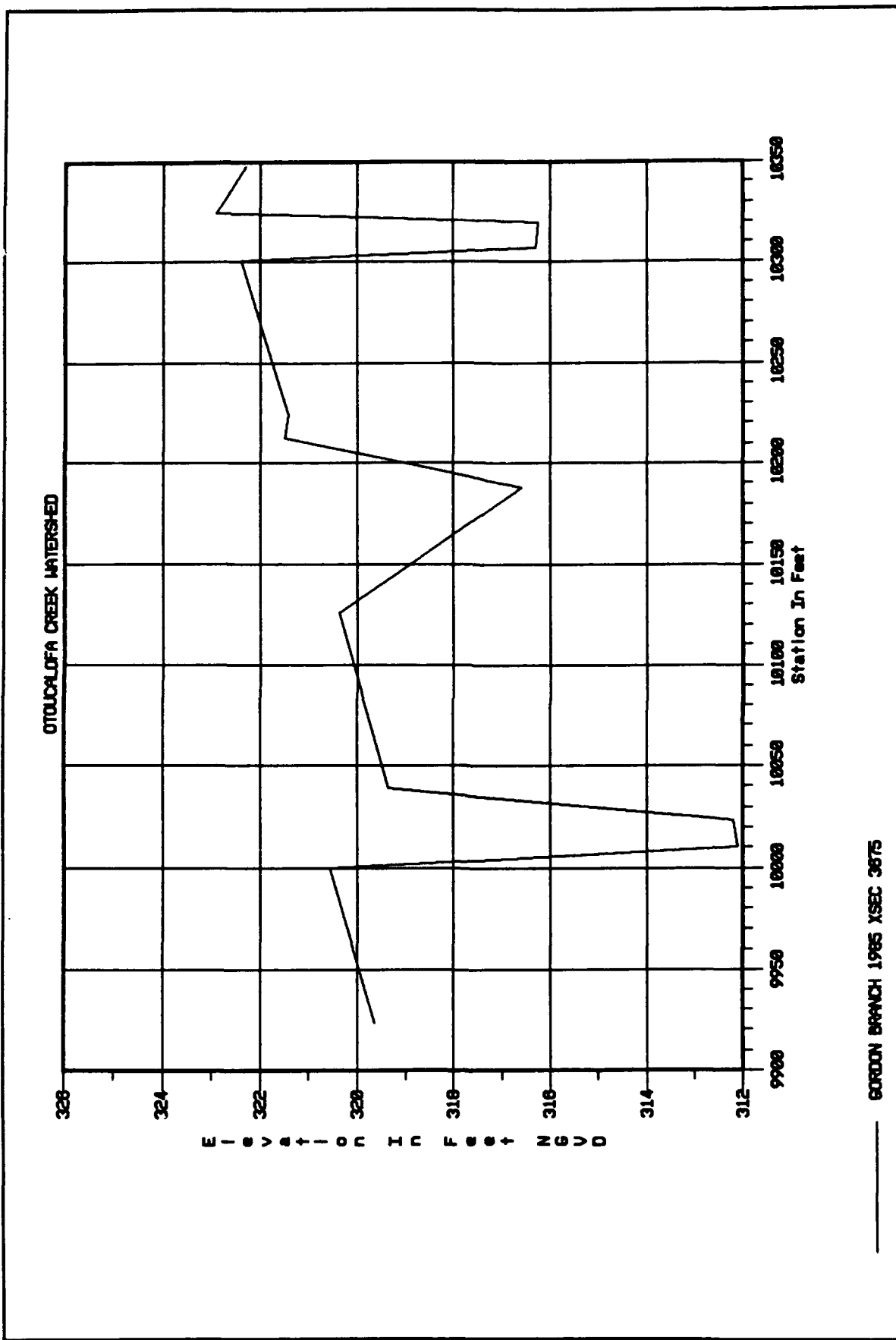


Plate C182



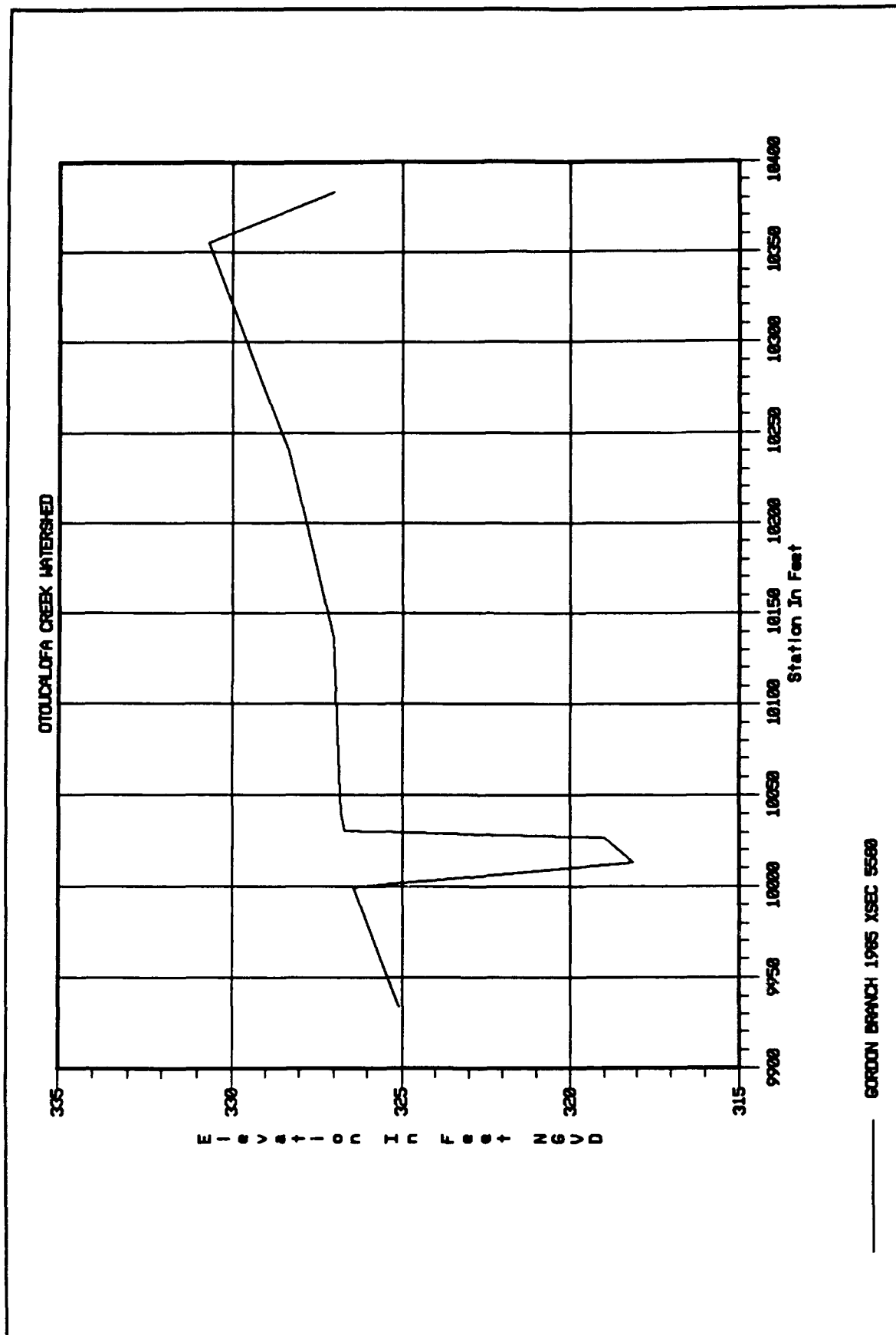
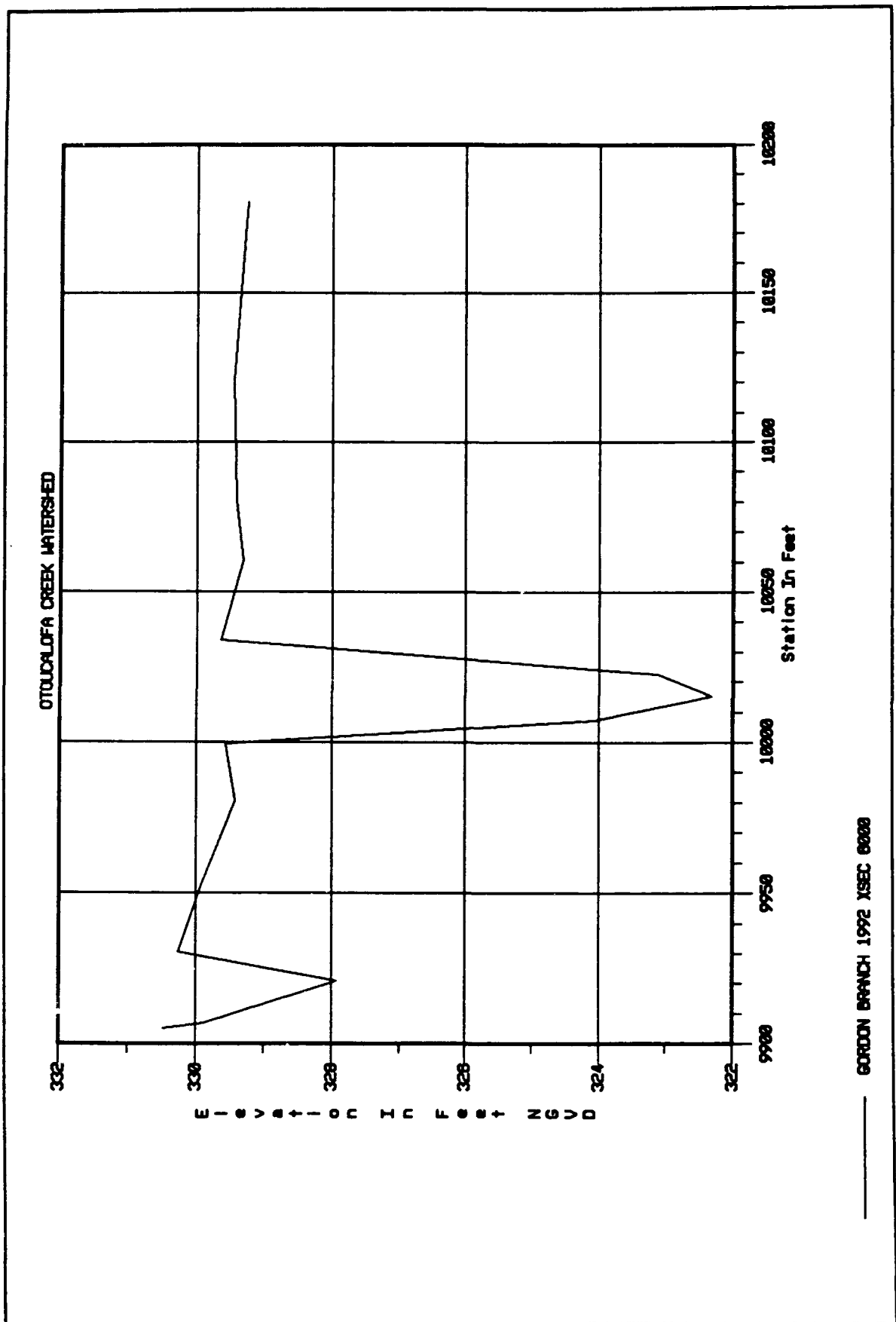


Plate C184



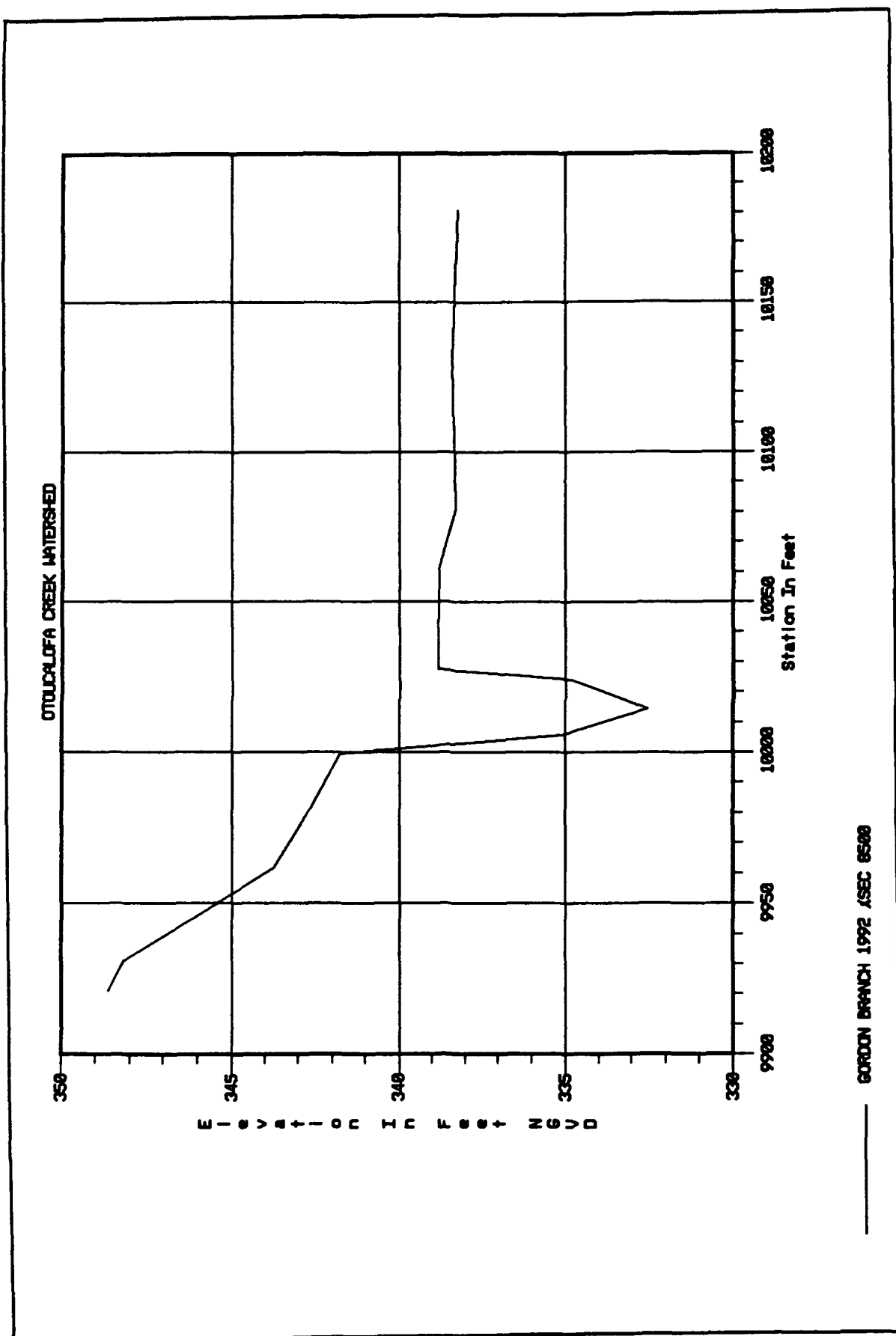
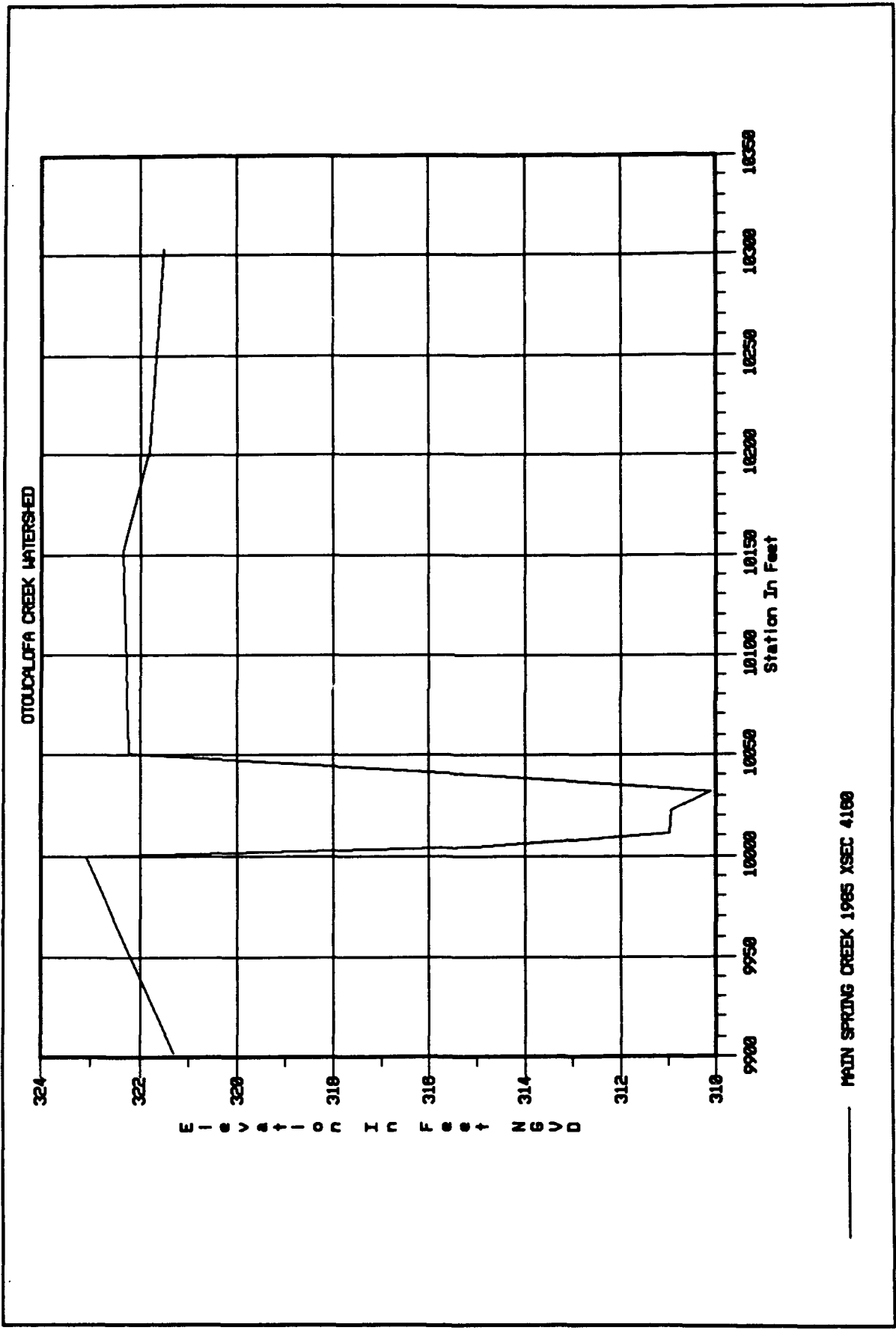


Plate C186



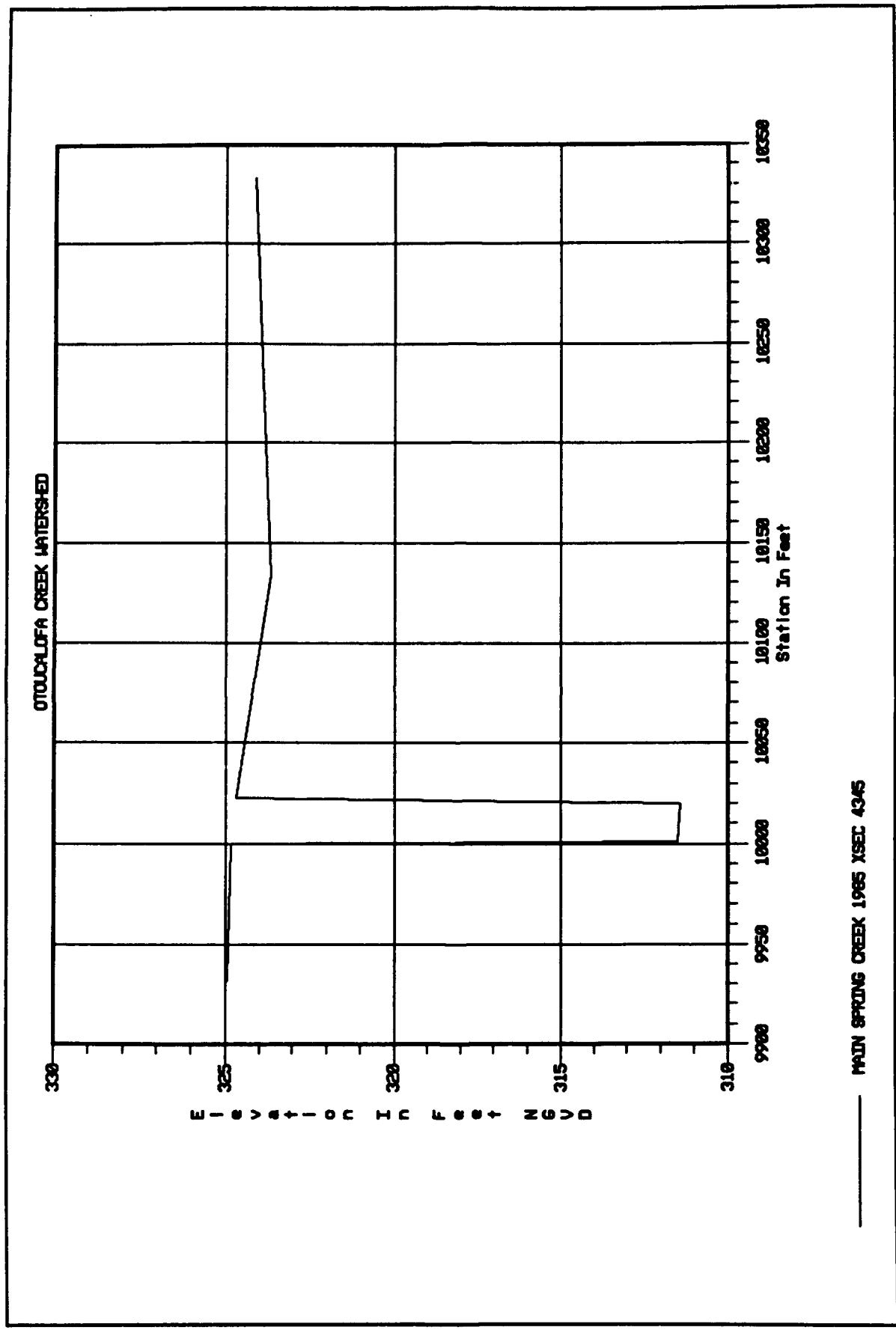
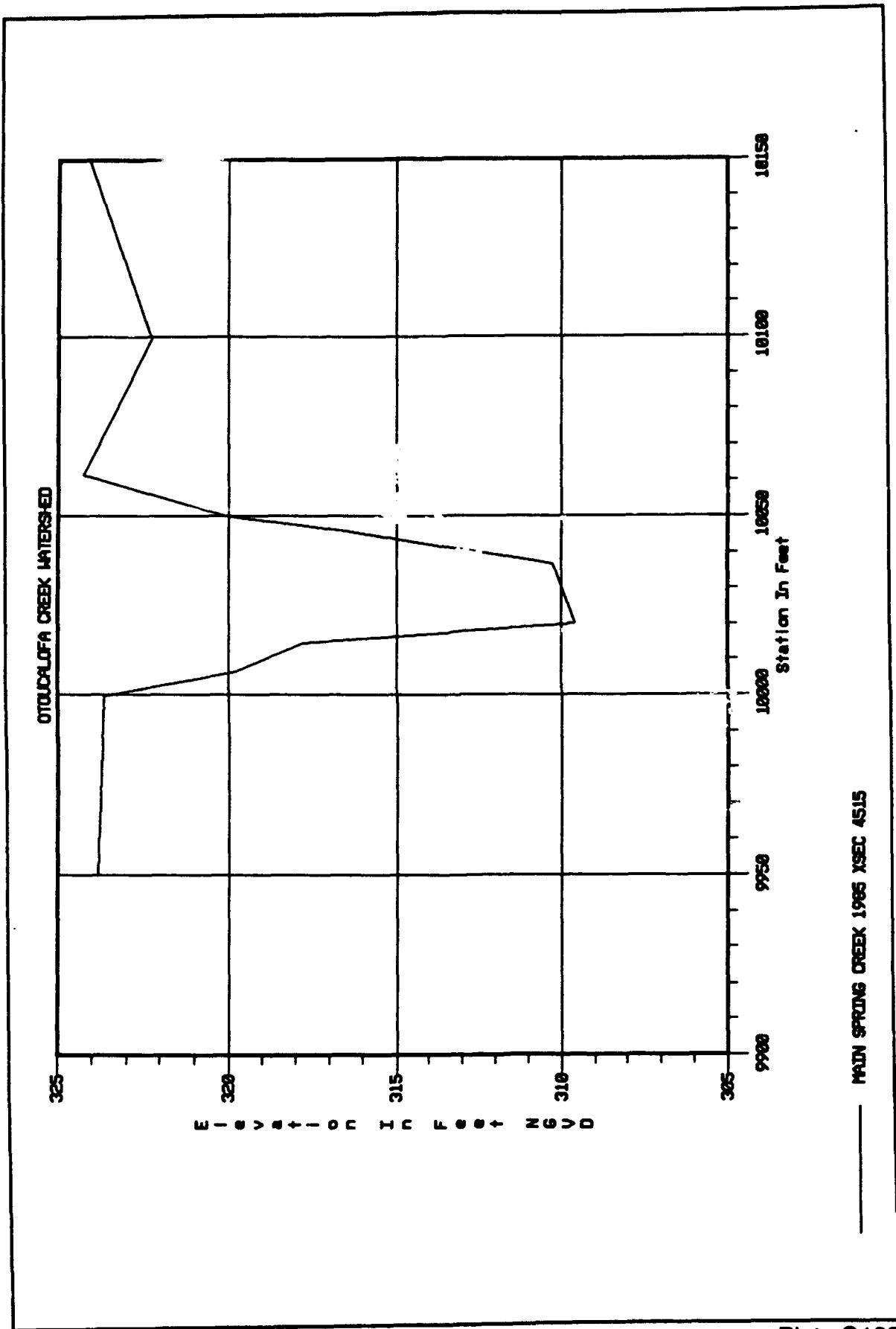


Plate C188



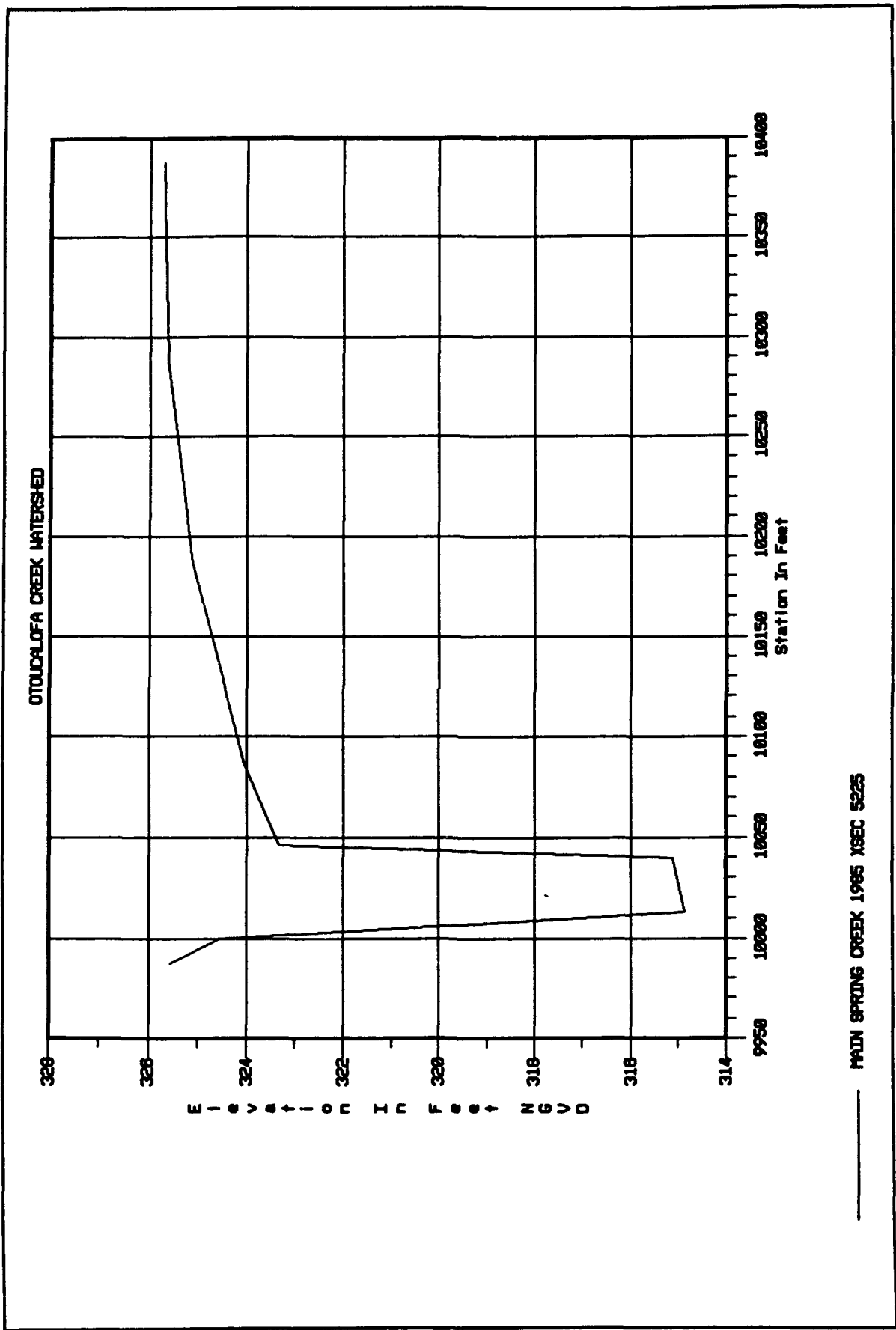
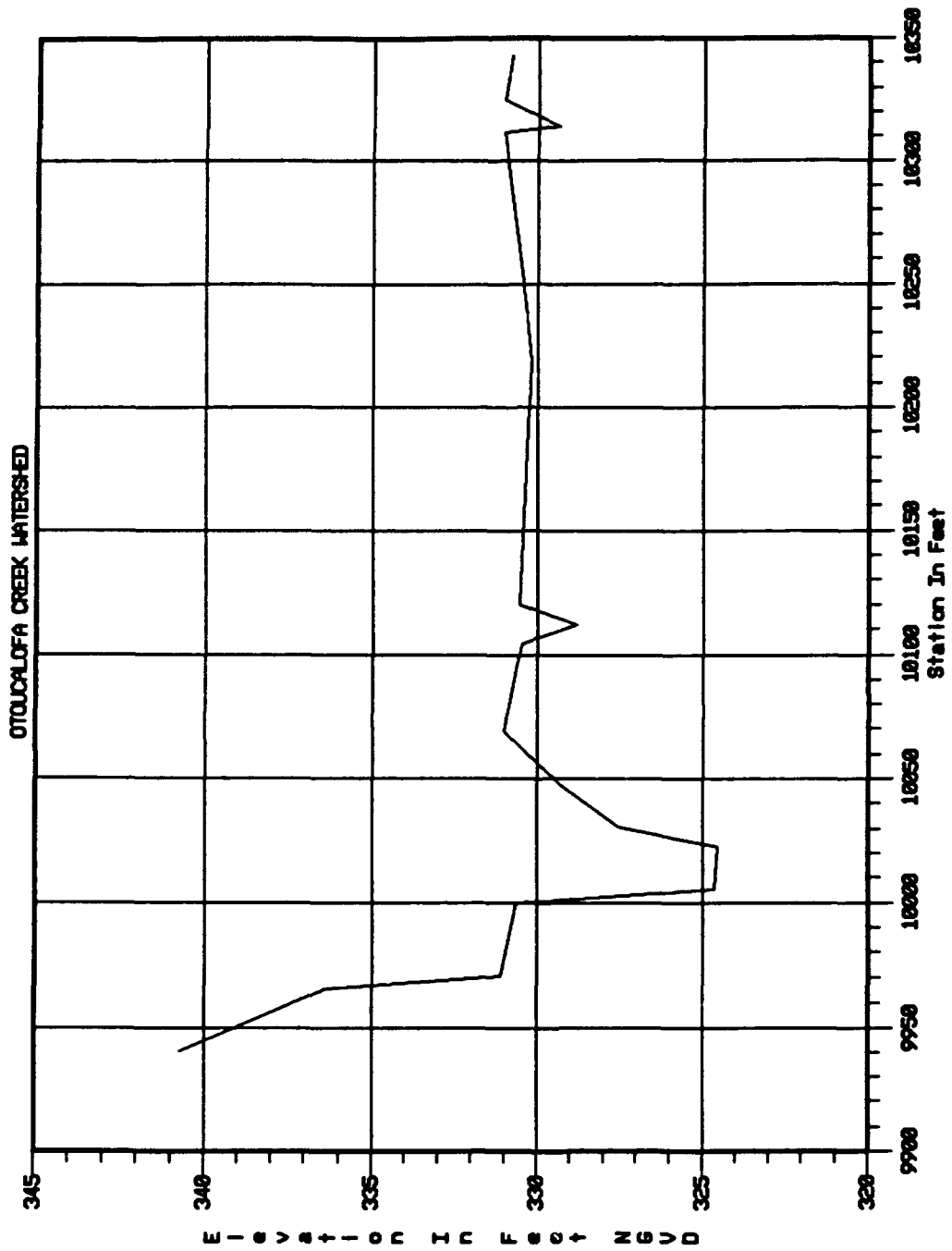


Plate C190



MAIN SPRING CREEK 1985 XSEC 0025

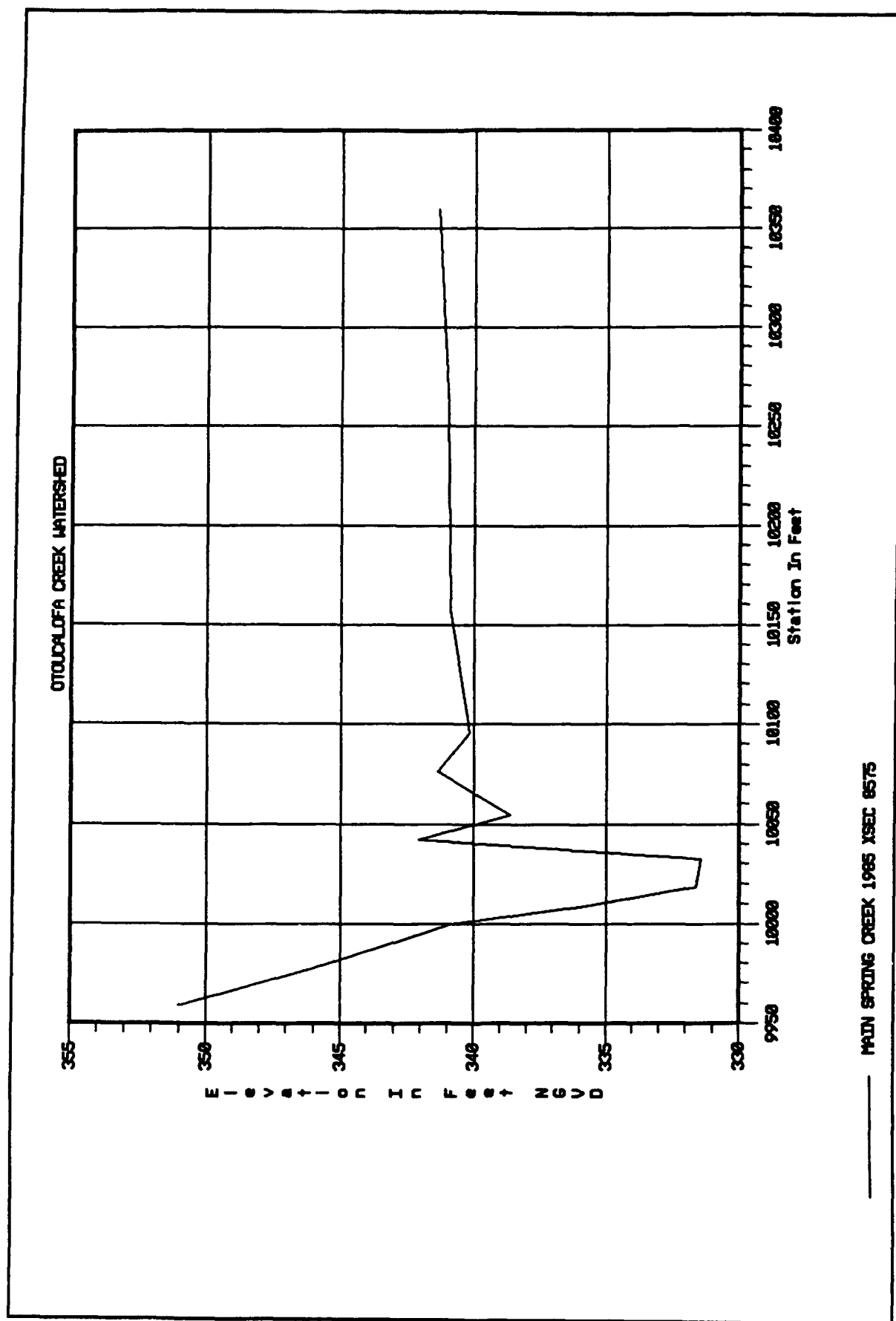
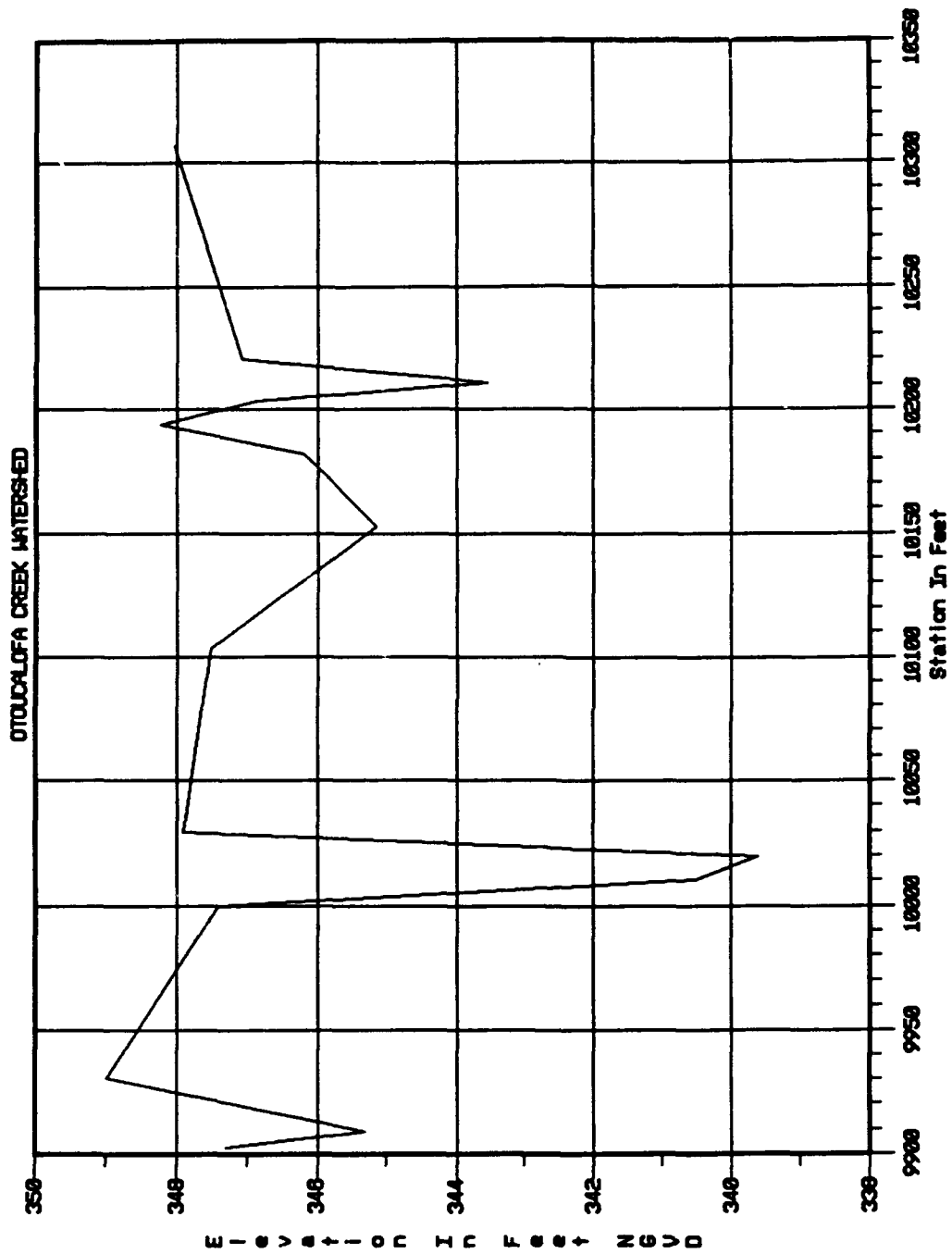
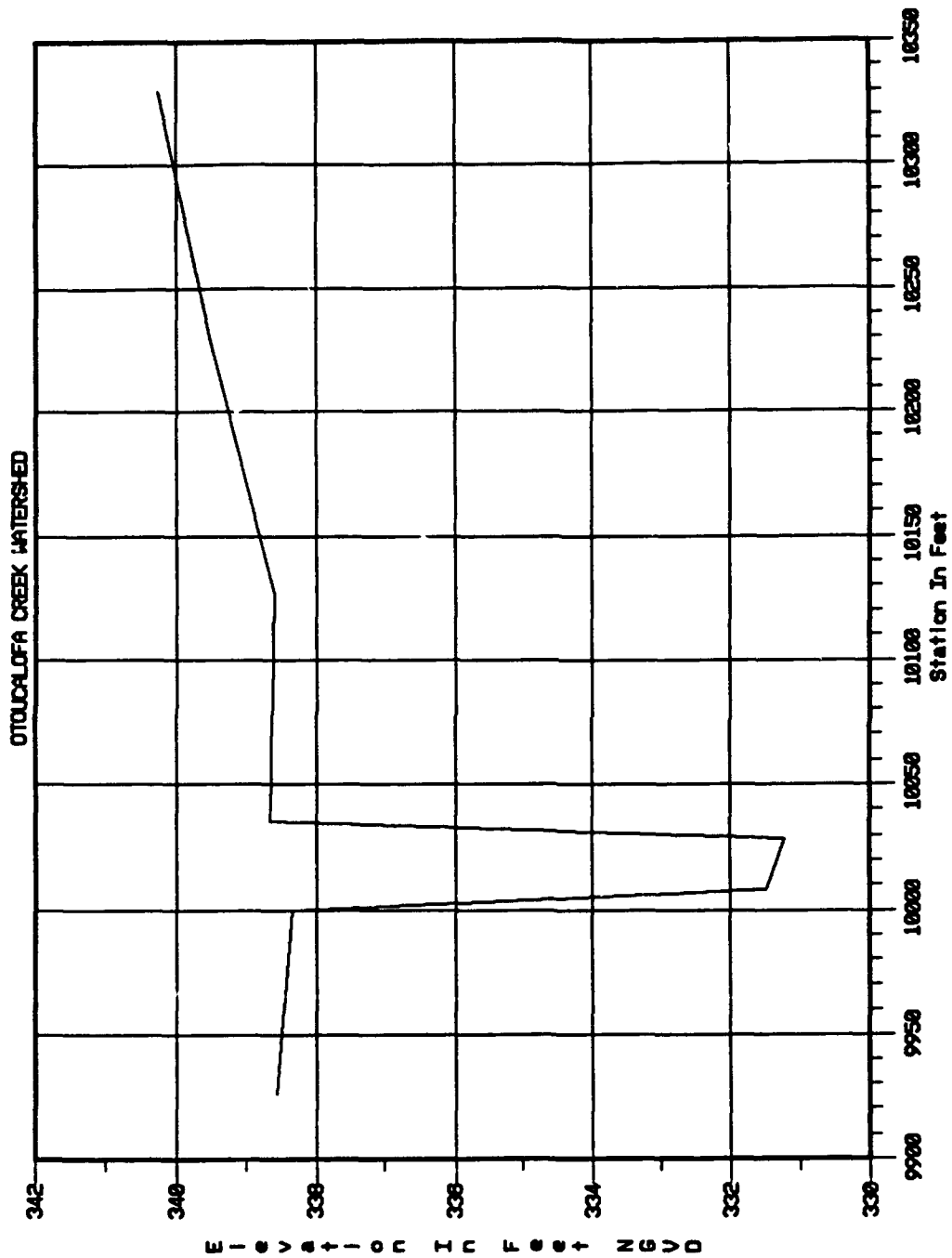


Plate C192

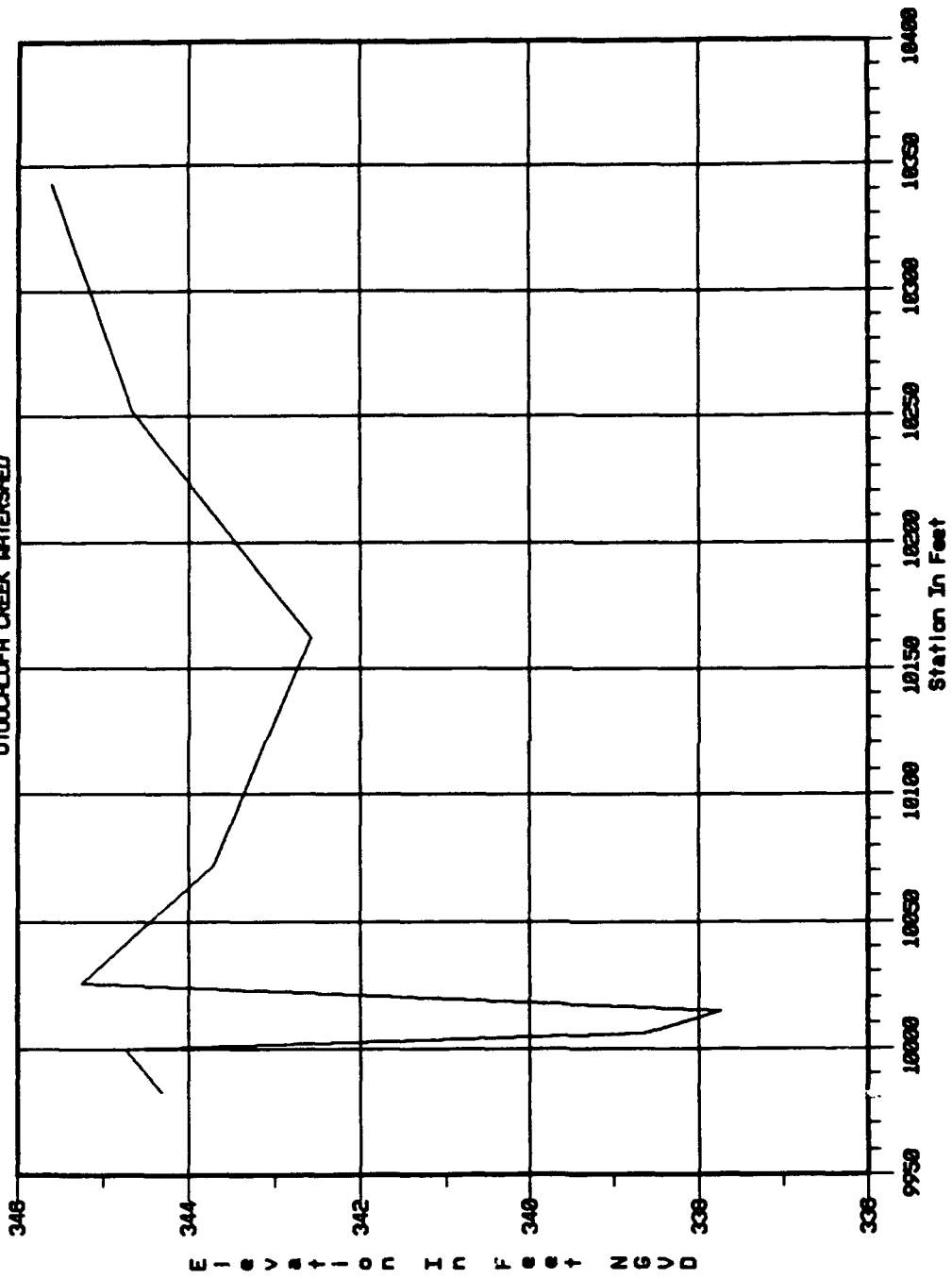


MAIN SPRING CREEK 1965 XSEC 10235



— SOUTH SPRING CREEK 1965 XSEC 3065

OTOLUCHLOFA CREEK WATERSHED



— SOUTH SPRING CREEK 1985 XSEC 6900

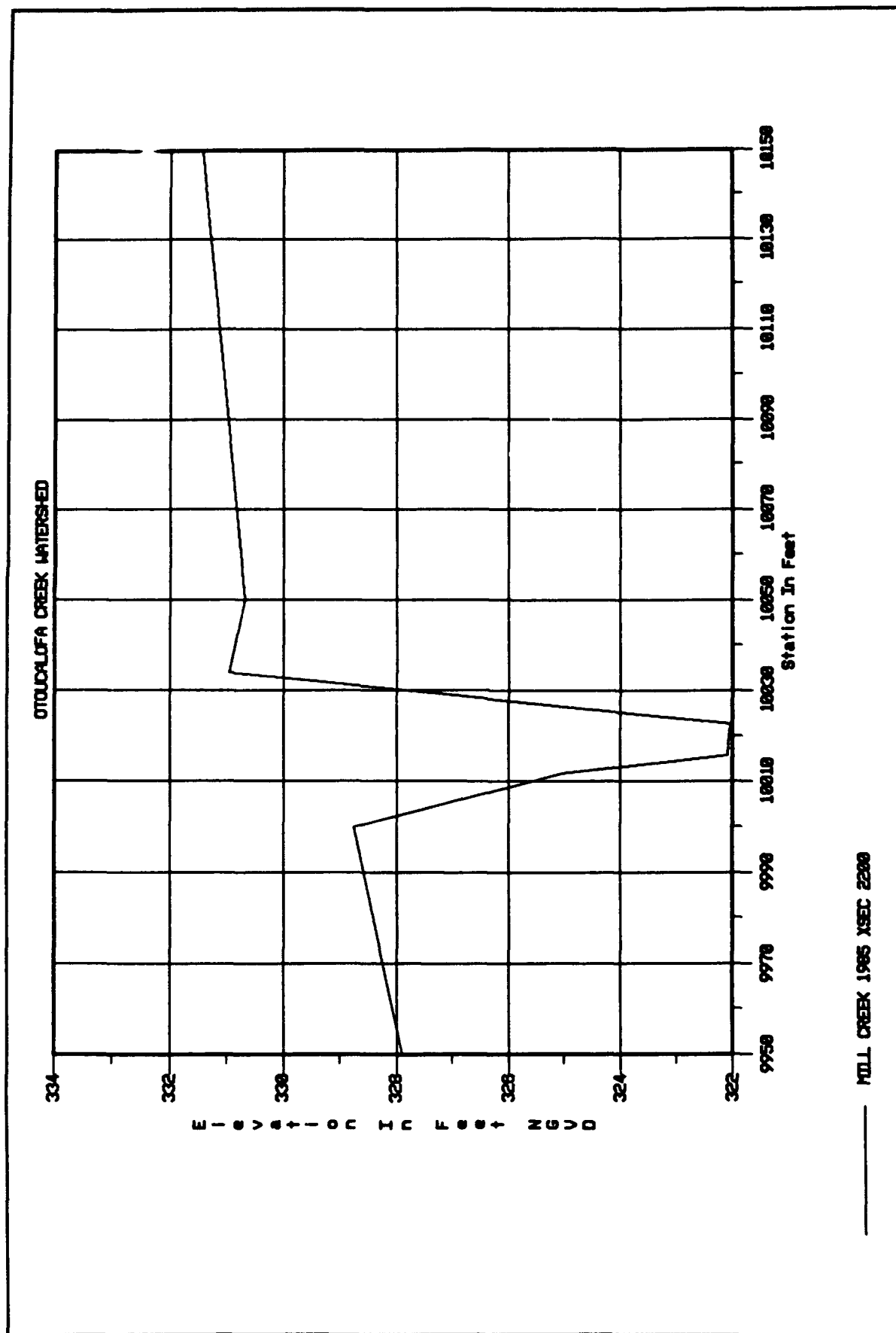
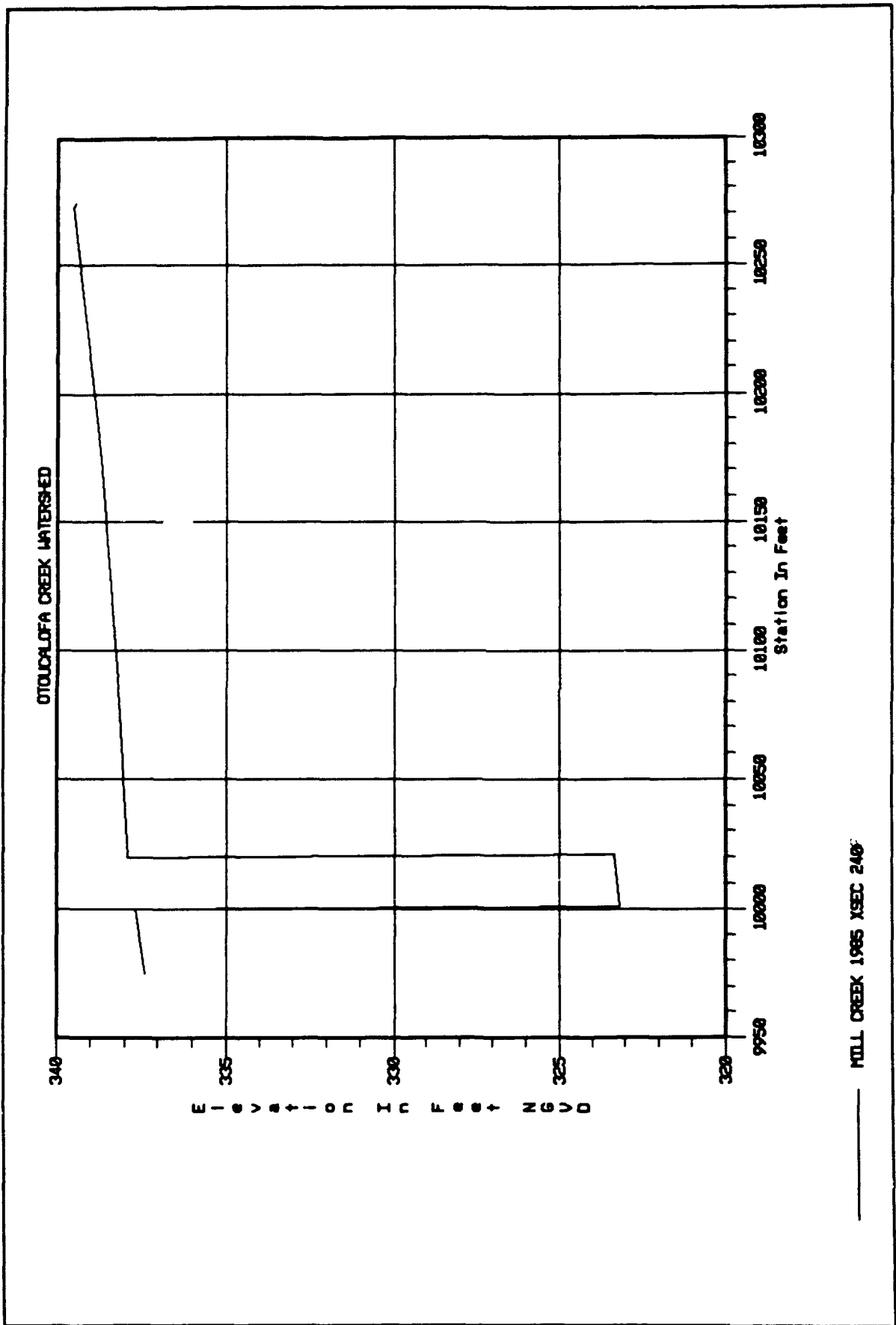


Plate C196



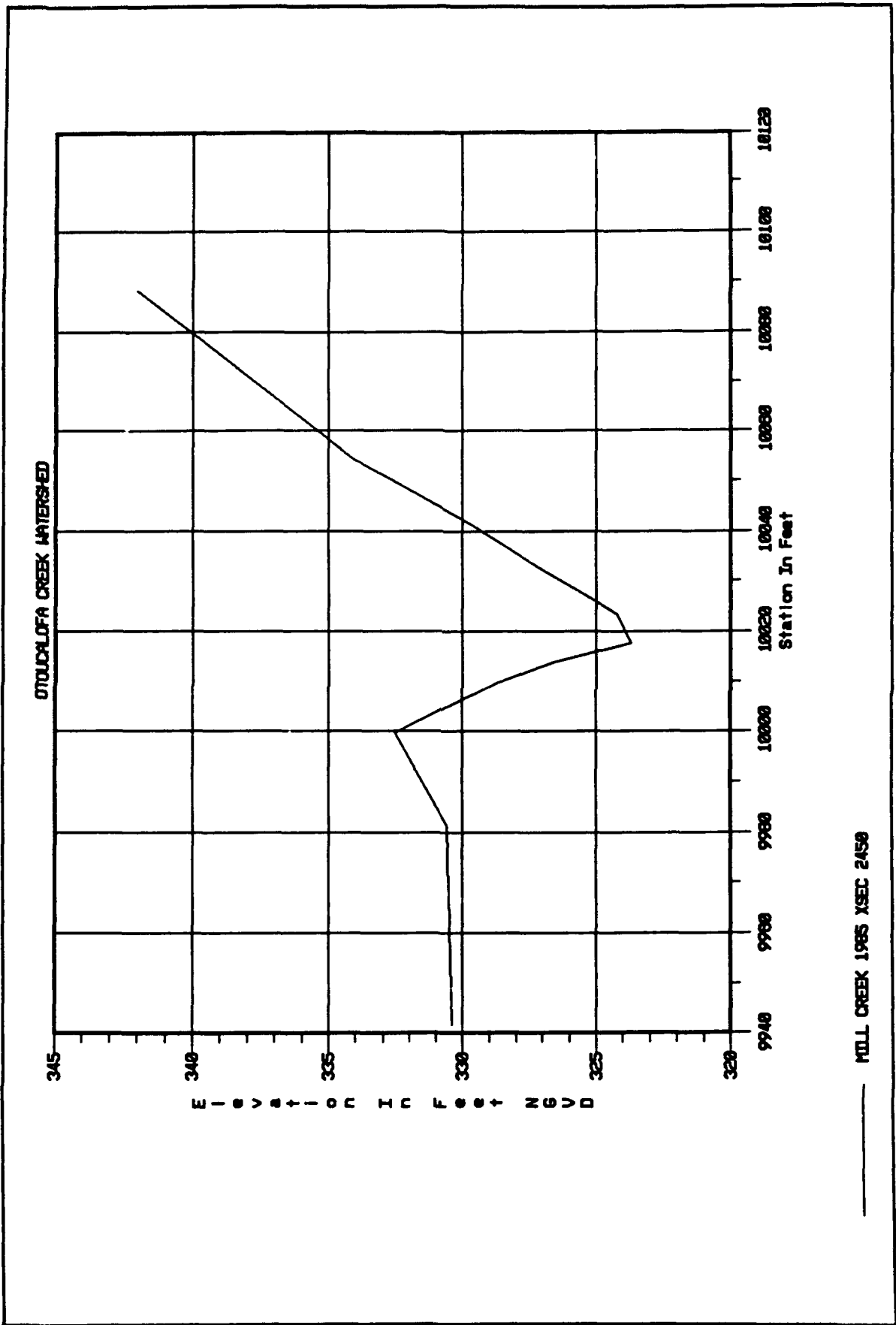
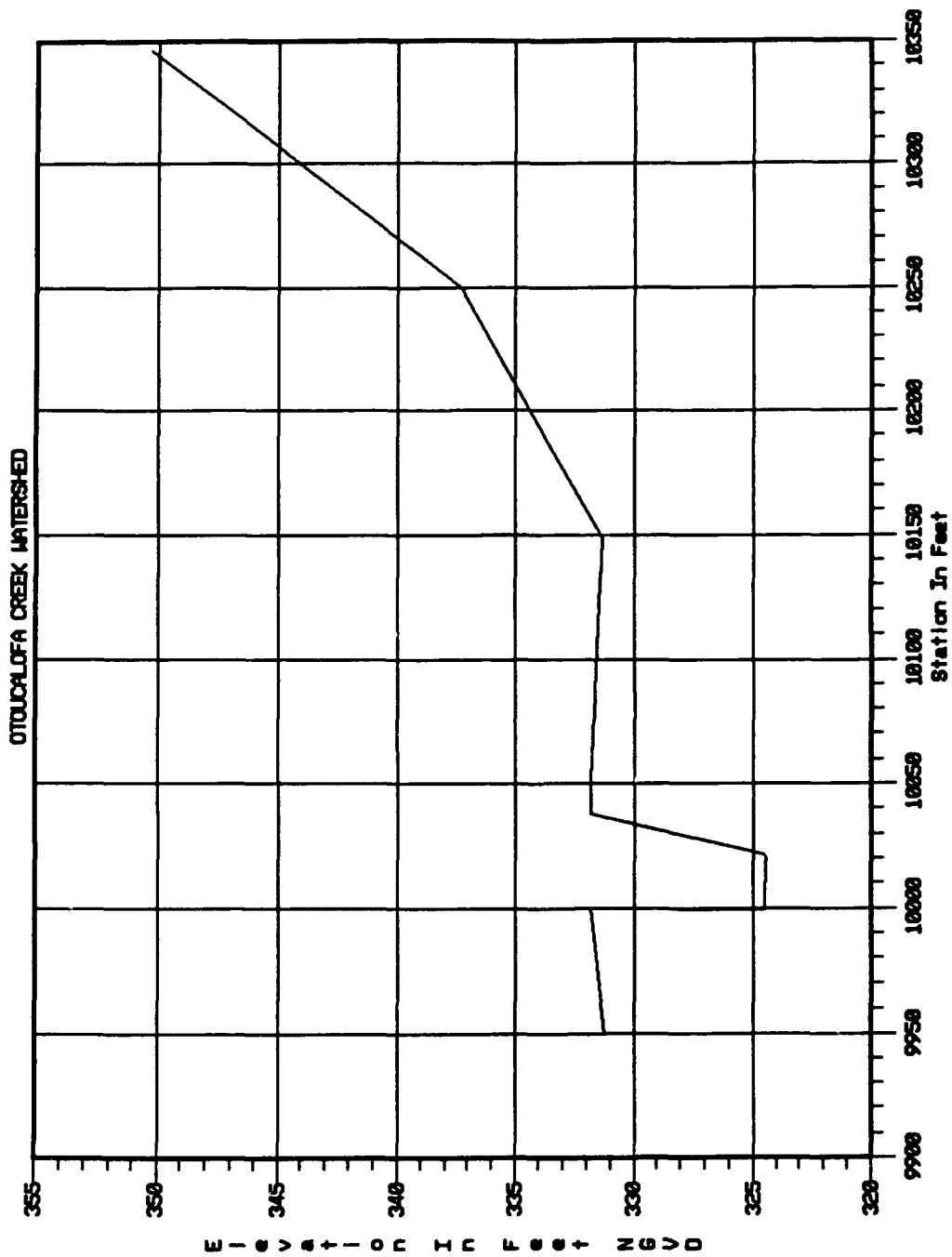


Plate C198



_____ MILL CREEK 1985 XSEC 2505

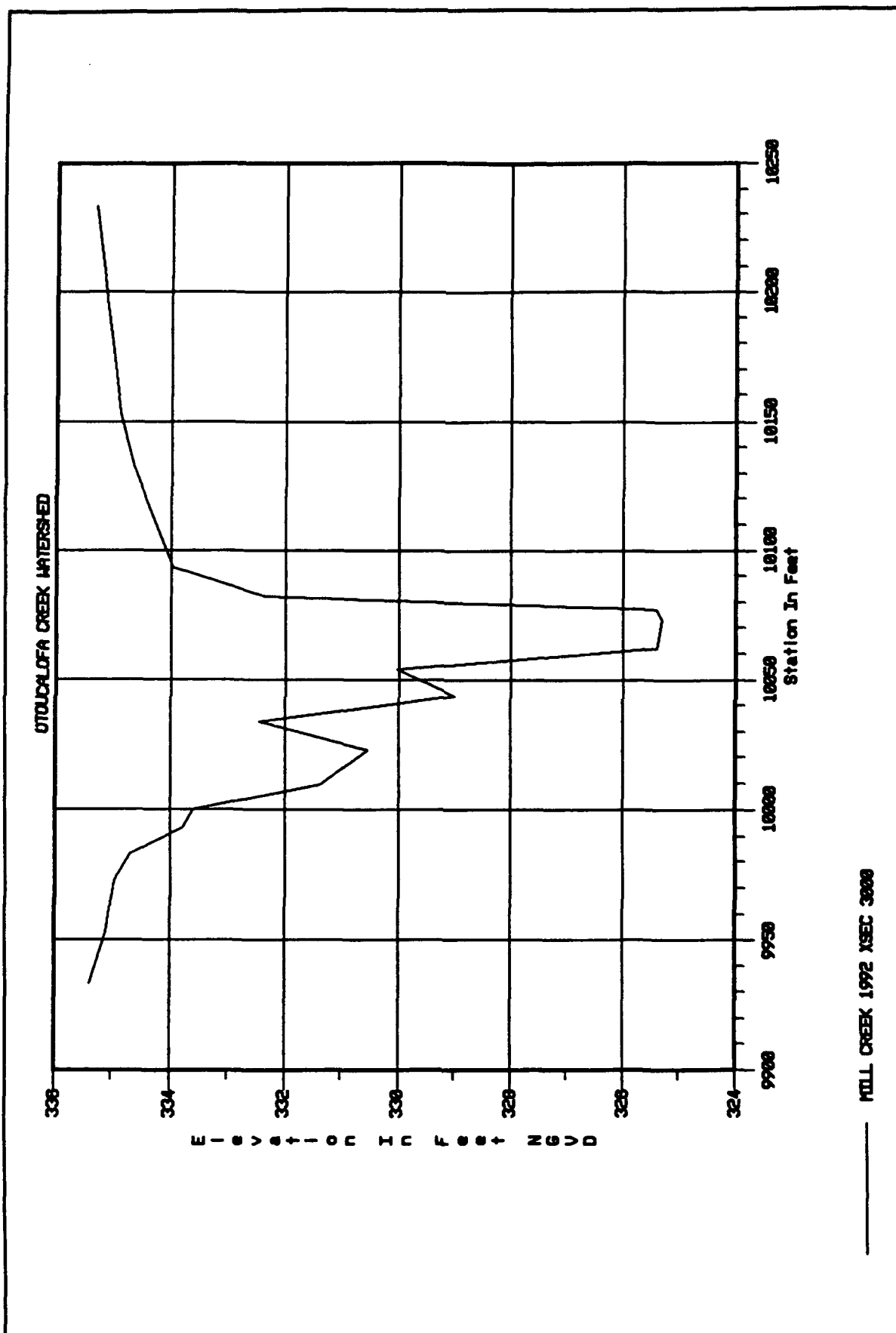
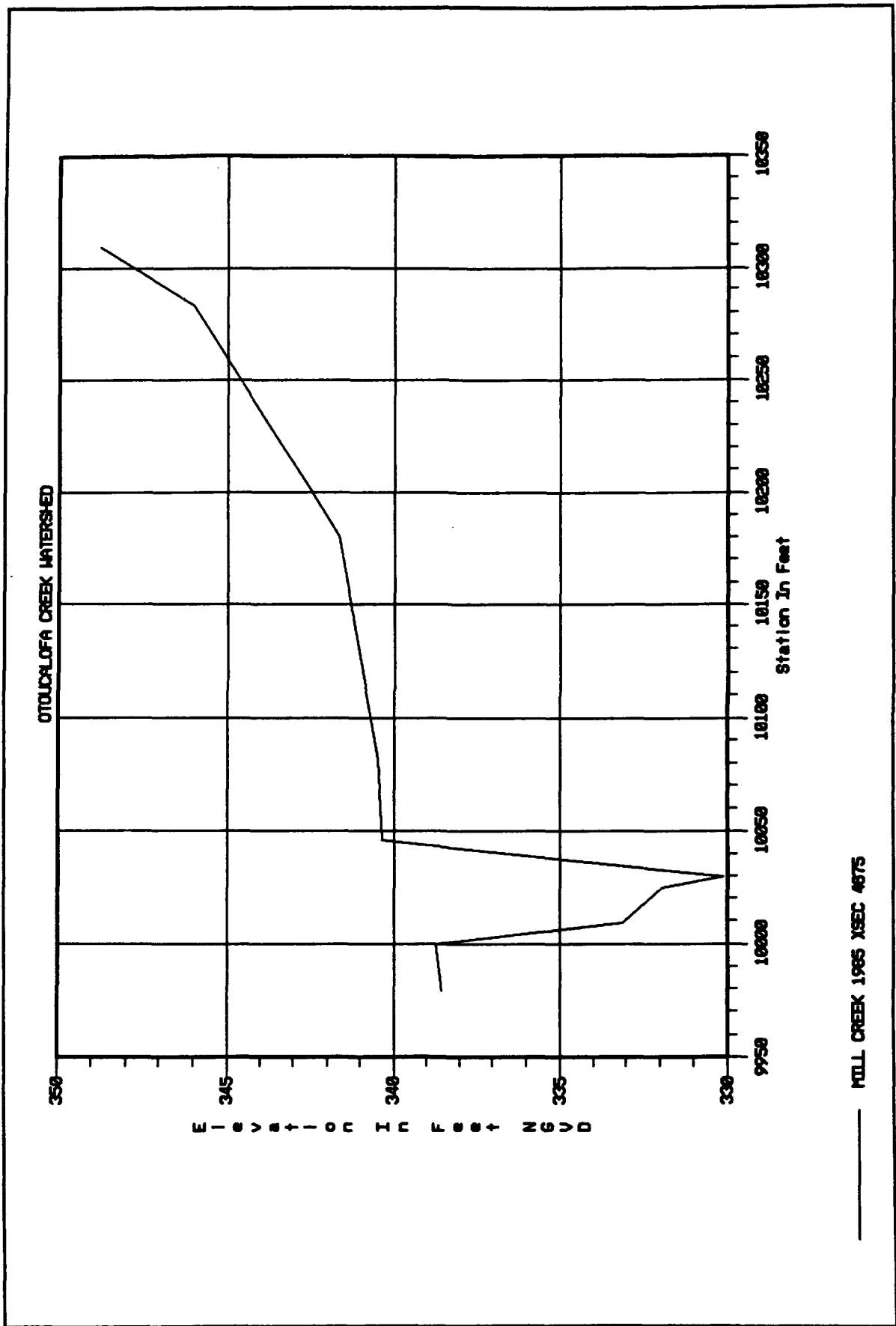


Plate C200



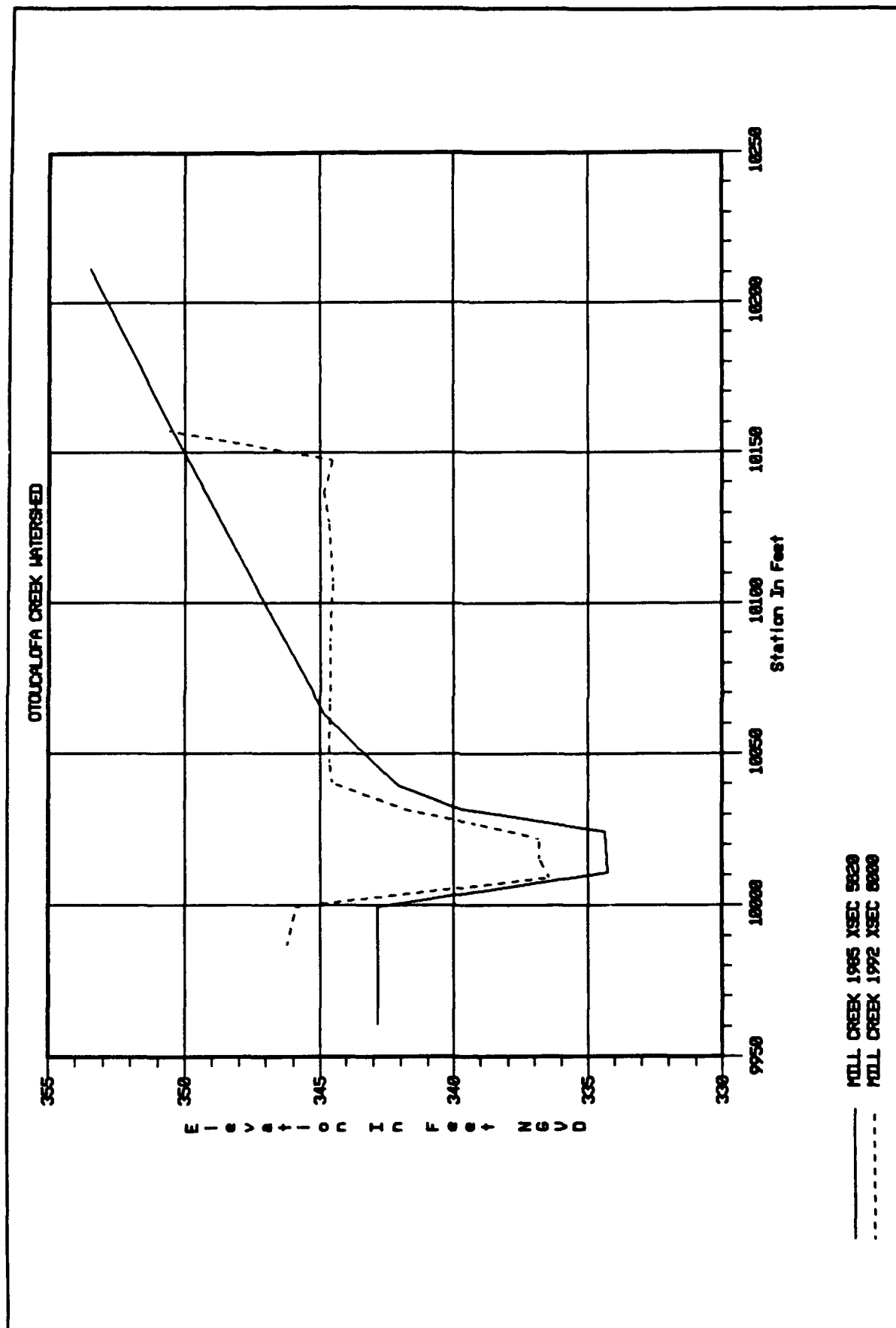
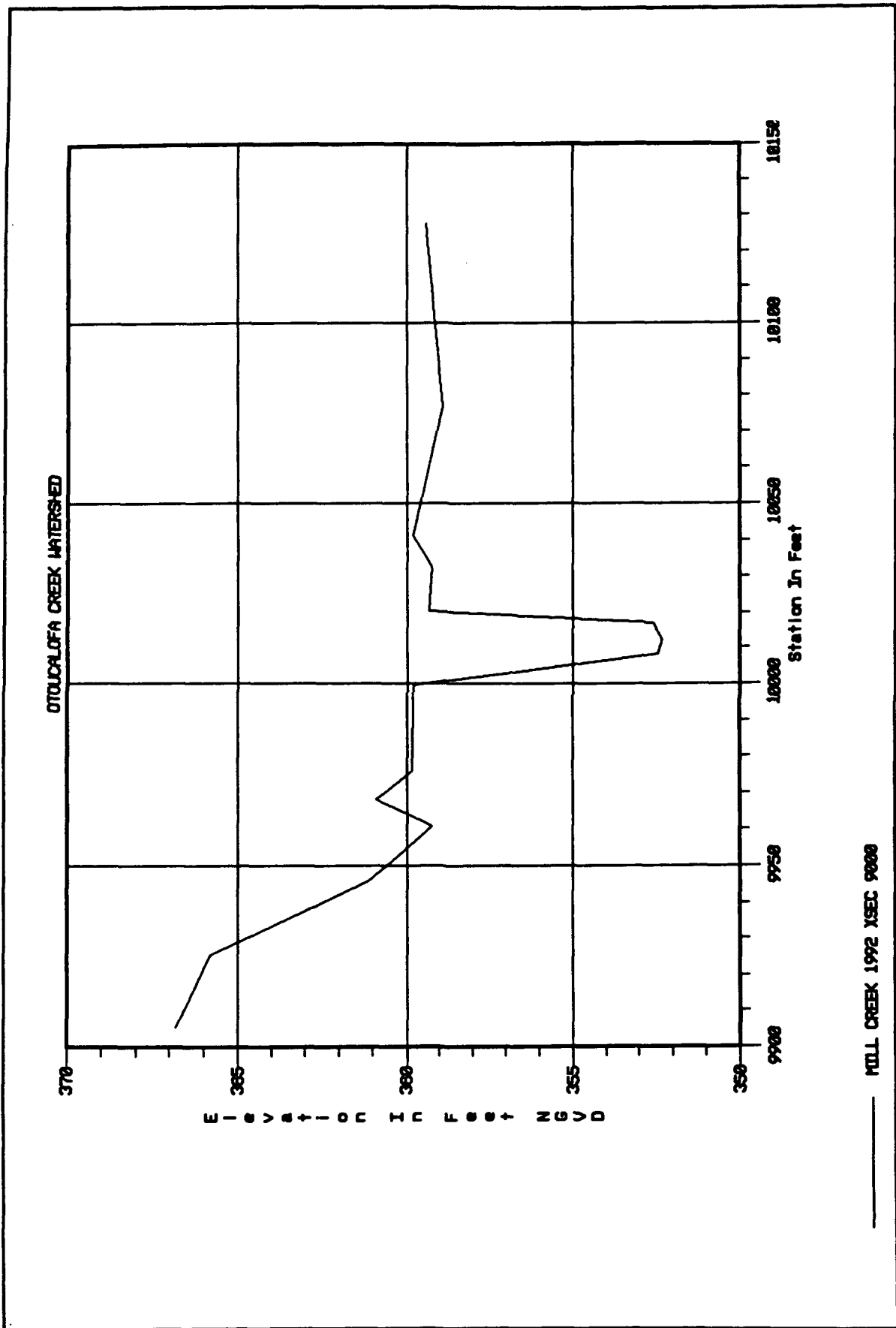
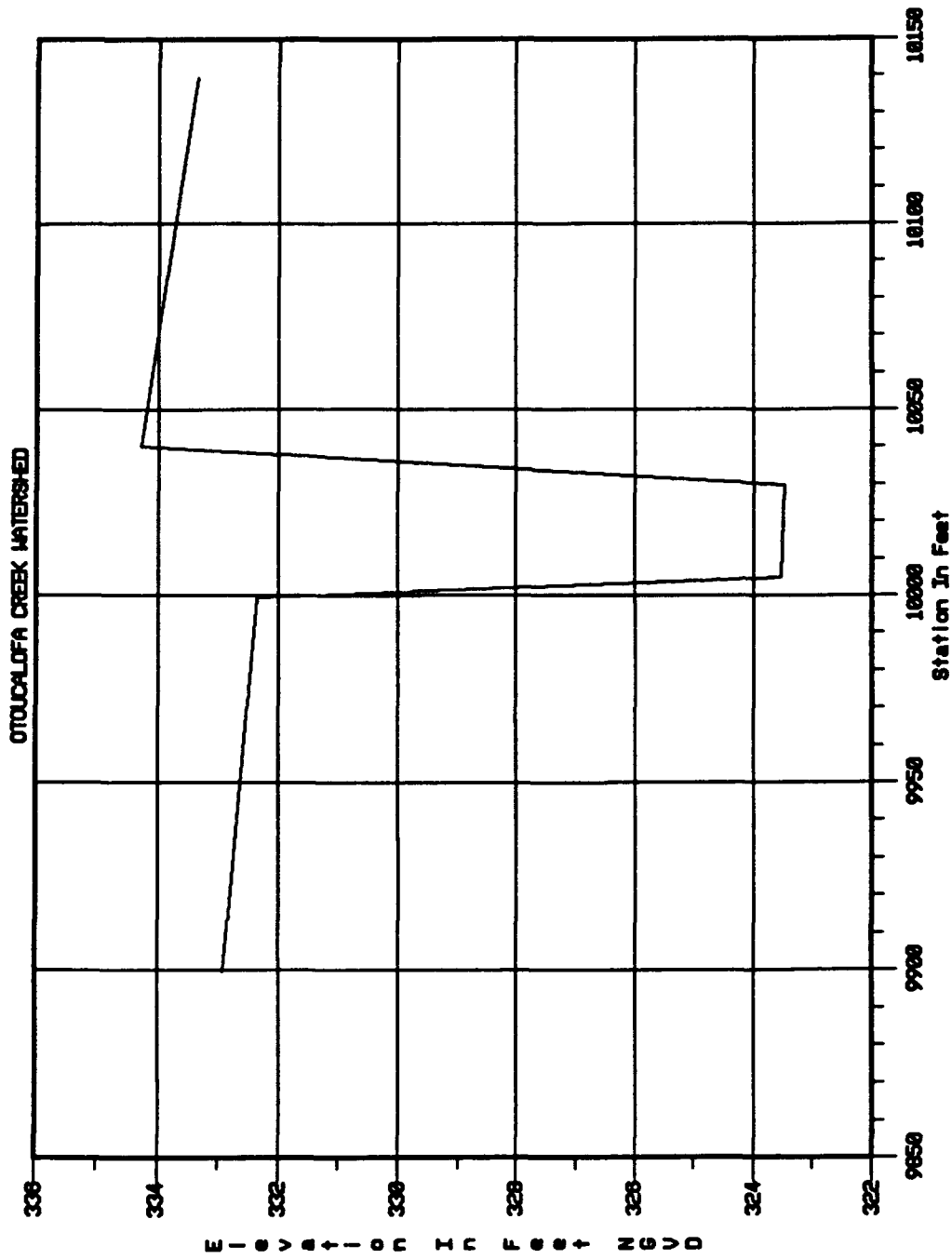
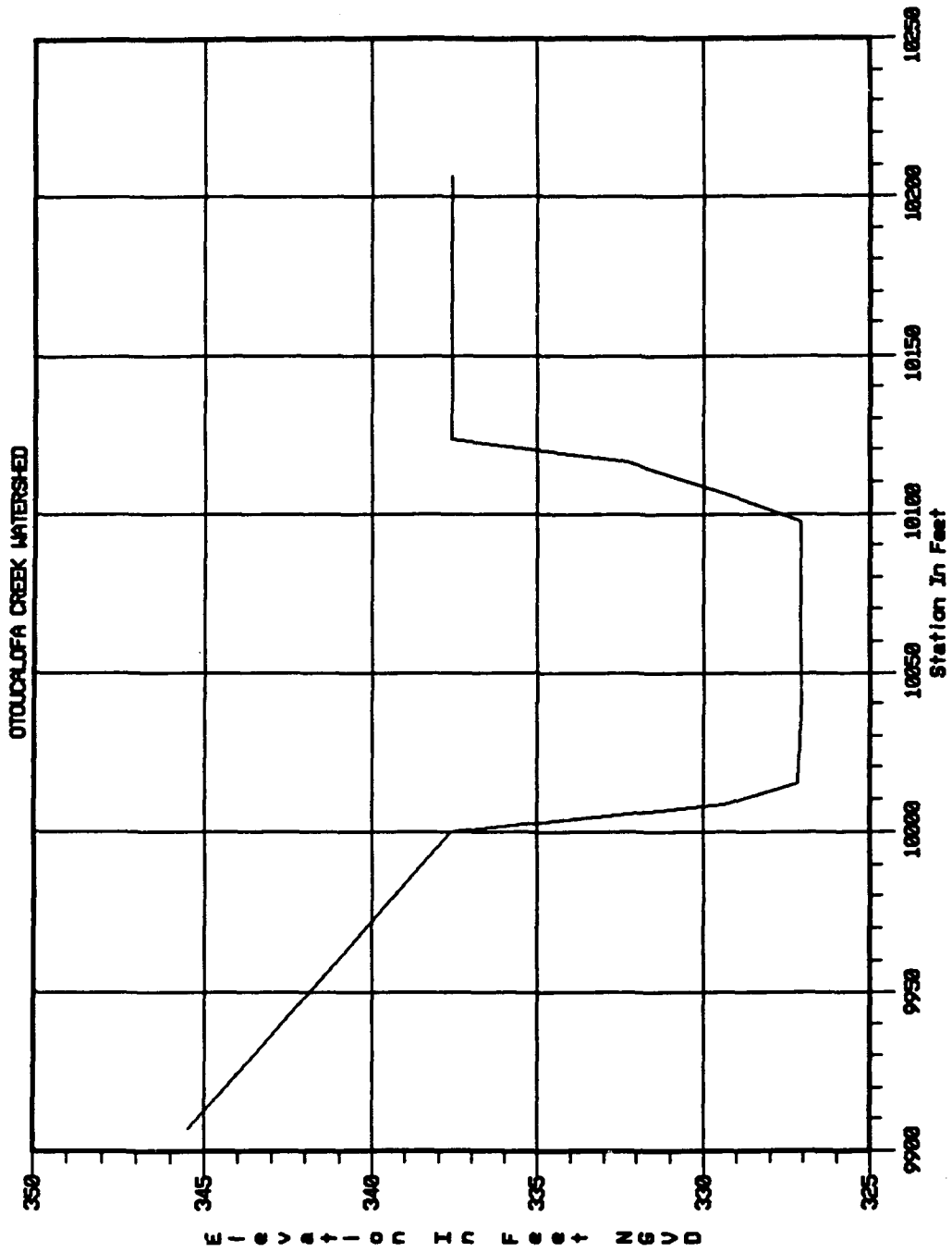


Plate C202





SMITH CREEK 1985 XSEC 2175



SMITH CREEK 1985 XSEC 3700

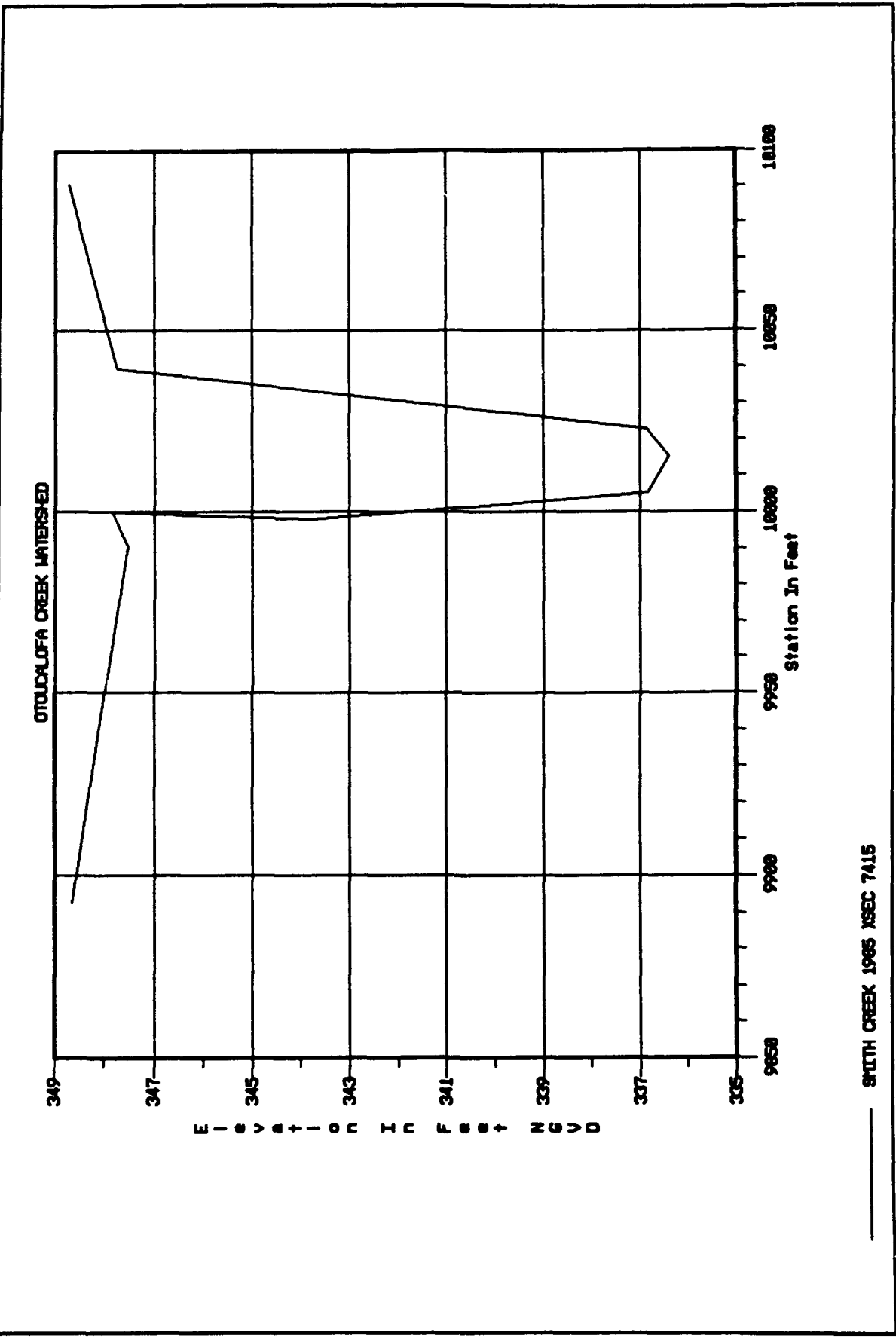
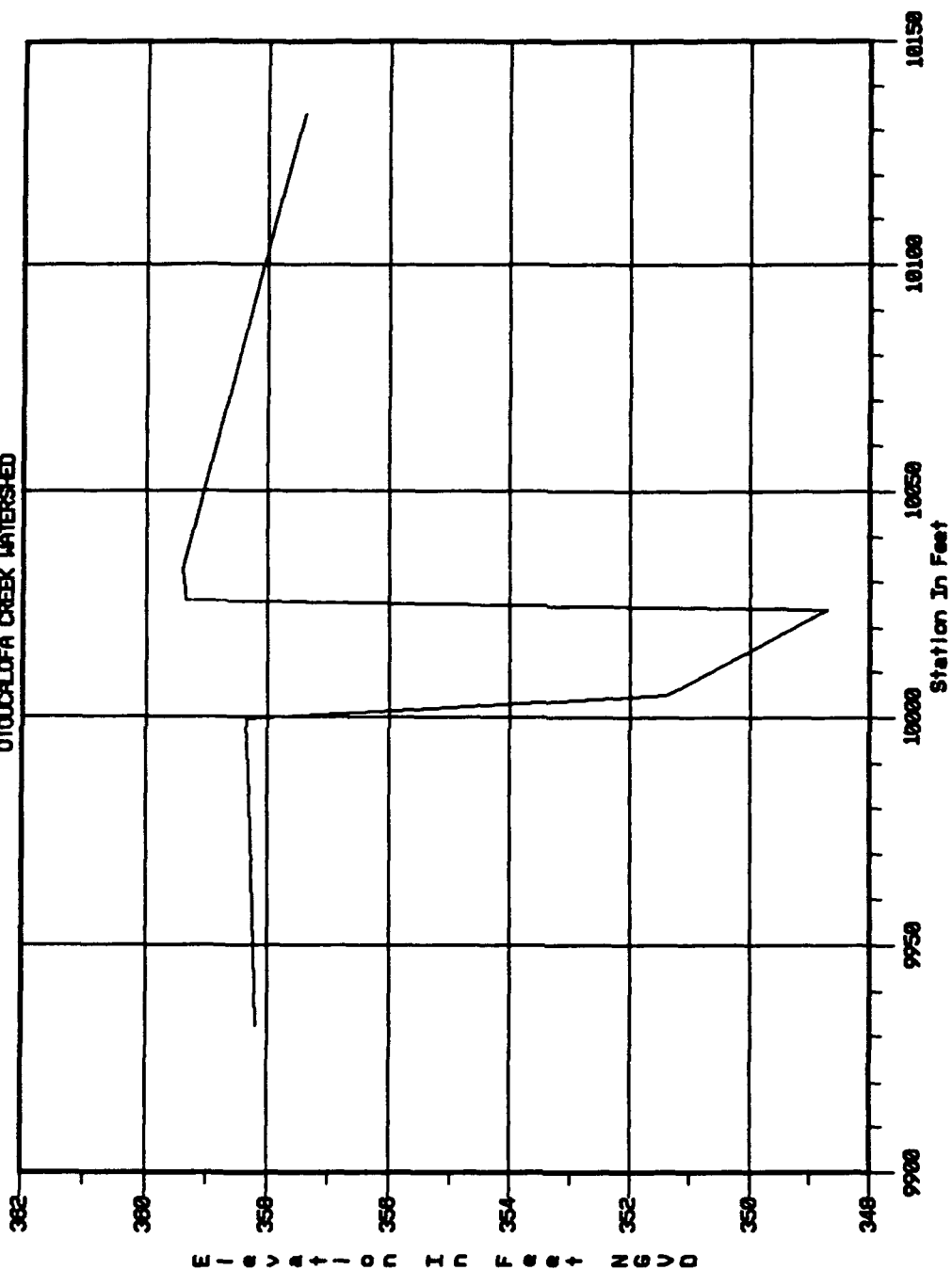


Plate C206

OTOUCHLOFA CREEK WATERSHED



SMITH CREEK 1985 XSEC 11000

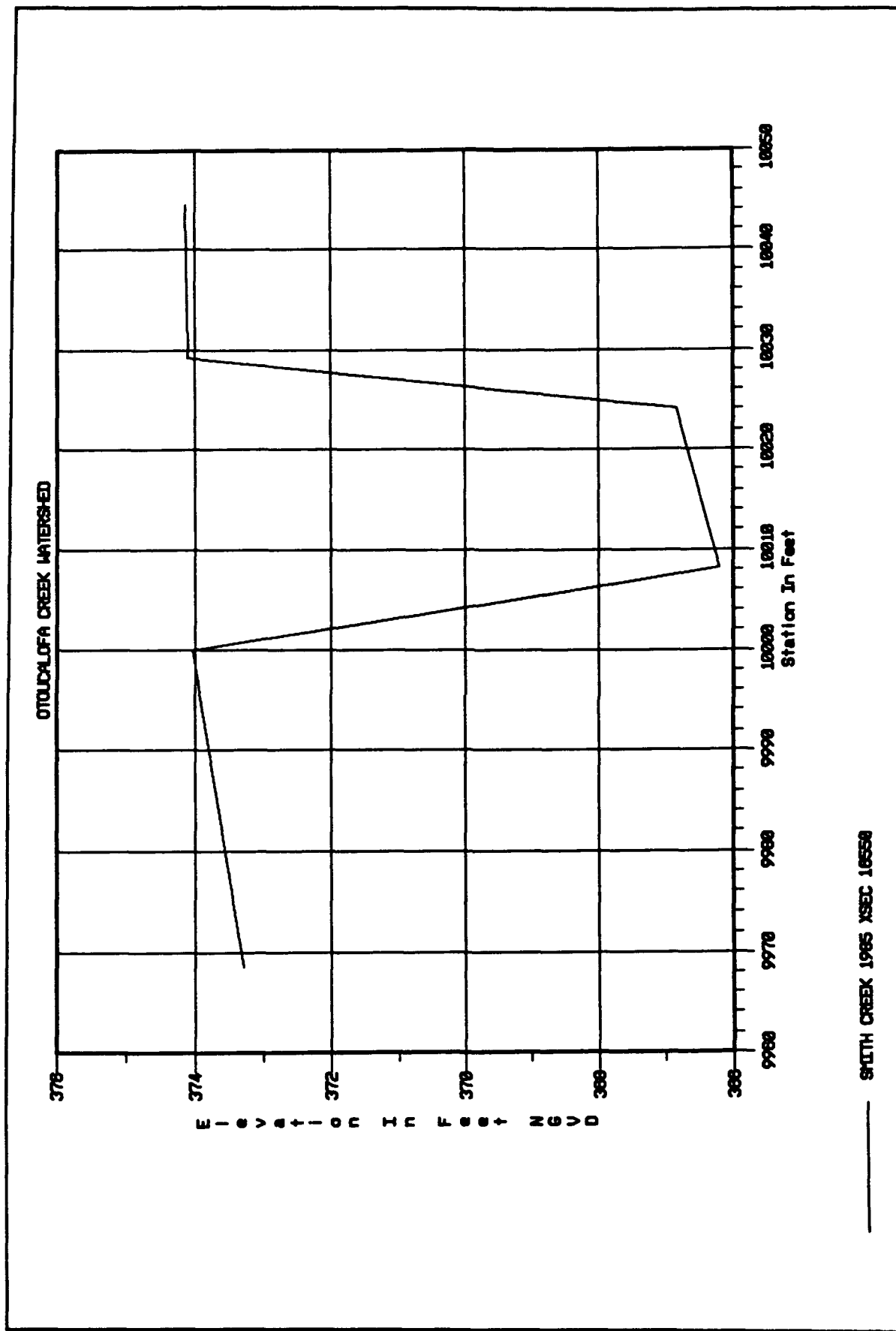
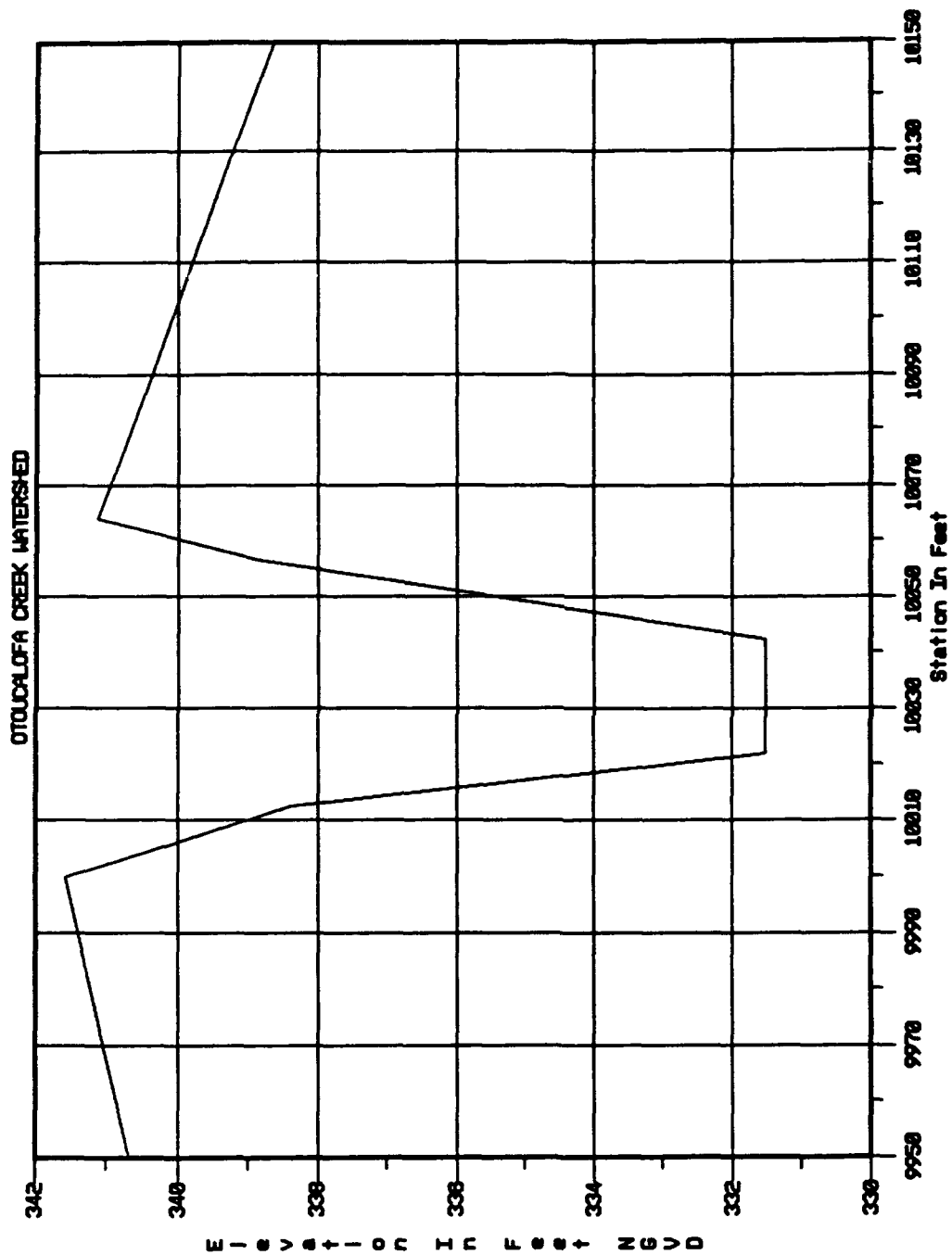
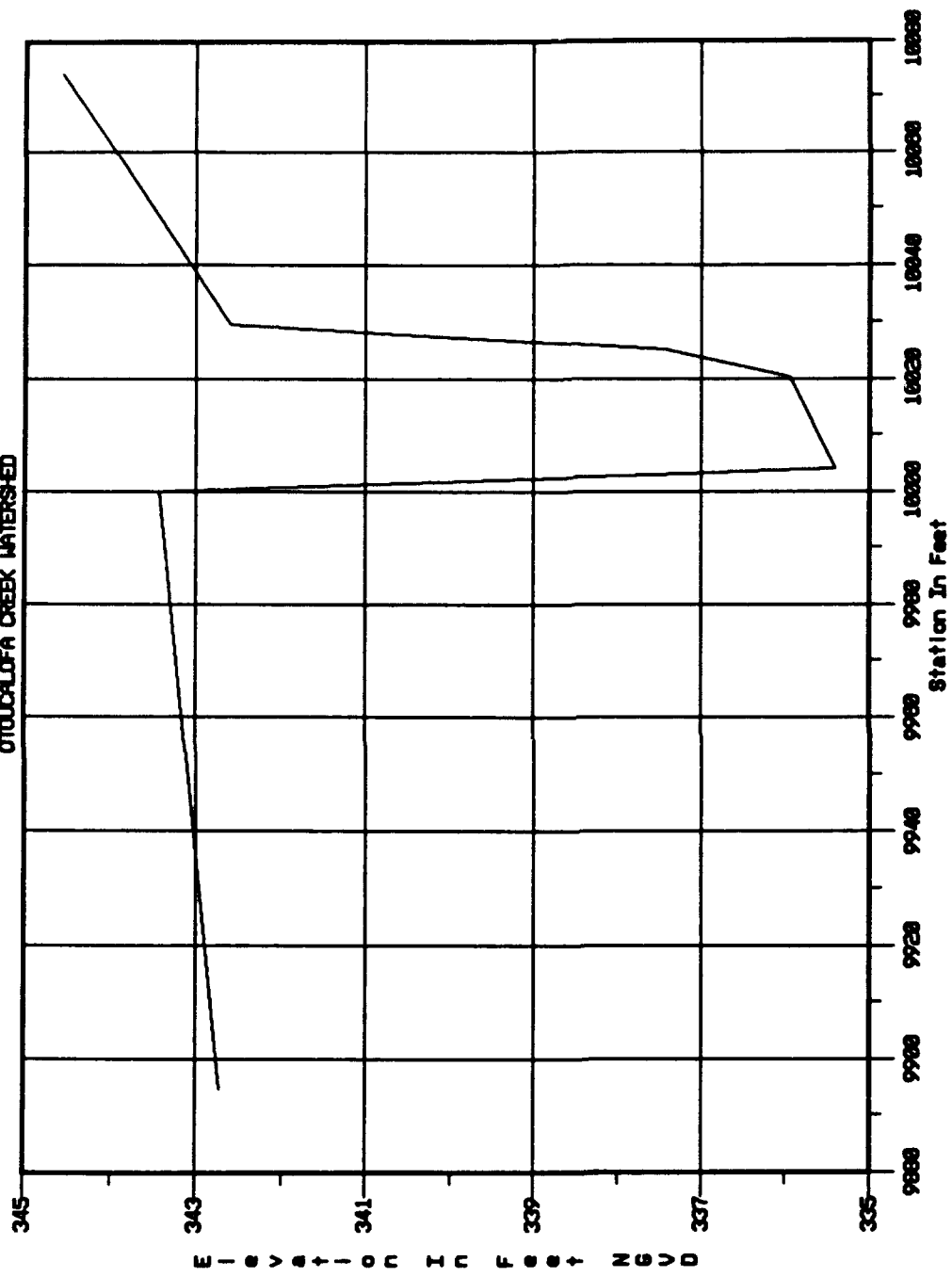


Plate C208

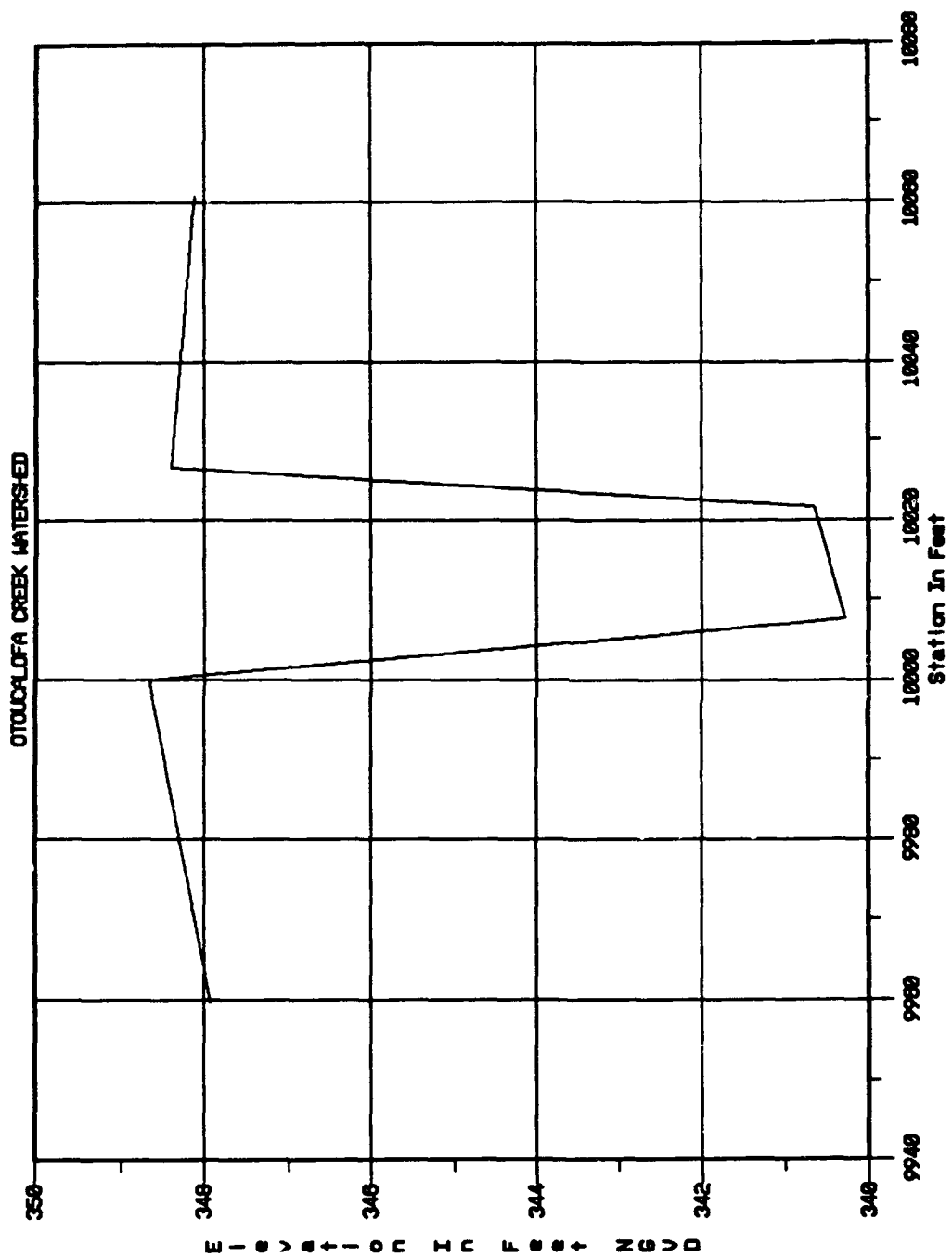


—— HANA CREEK 1985 XSEC 3898

OTOLUCHLOFA CREEK WATERSHED



— HANA CREEK 1985 XSEC 5200



HANNA CREEK 1985 XSEC 0175

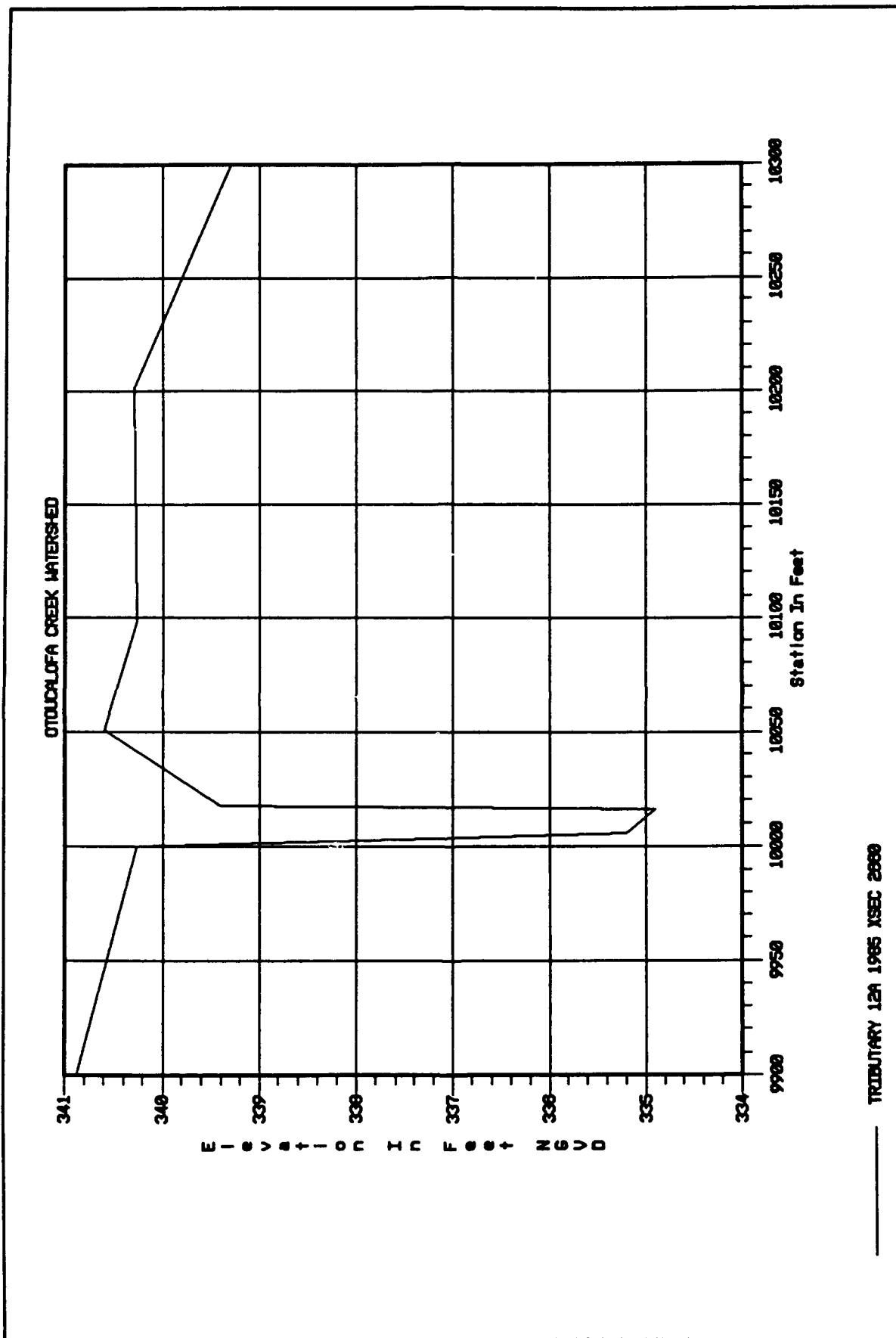
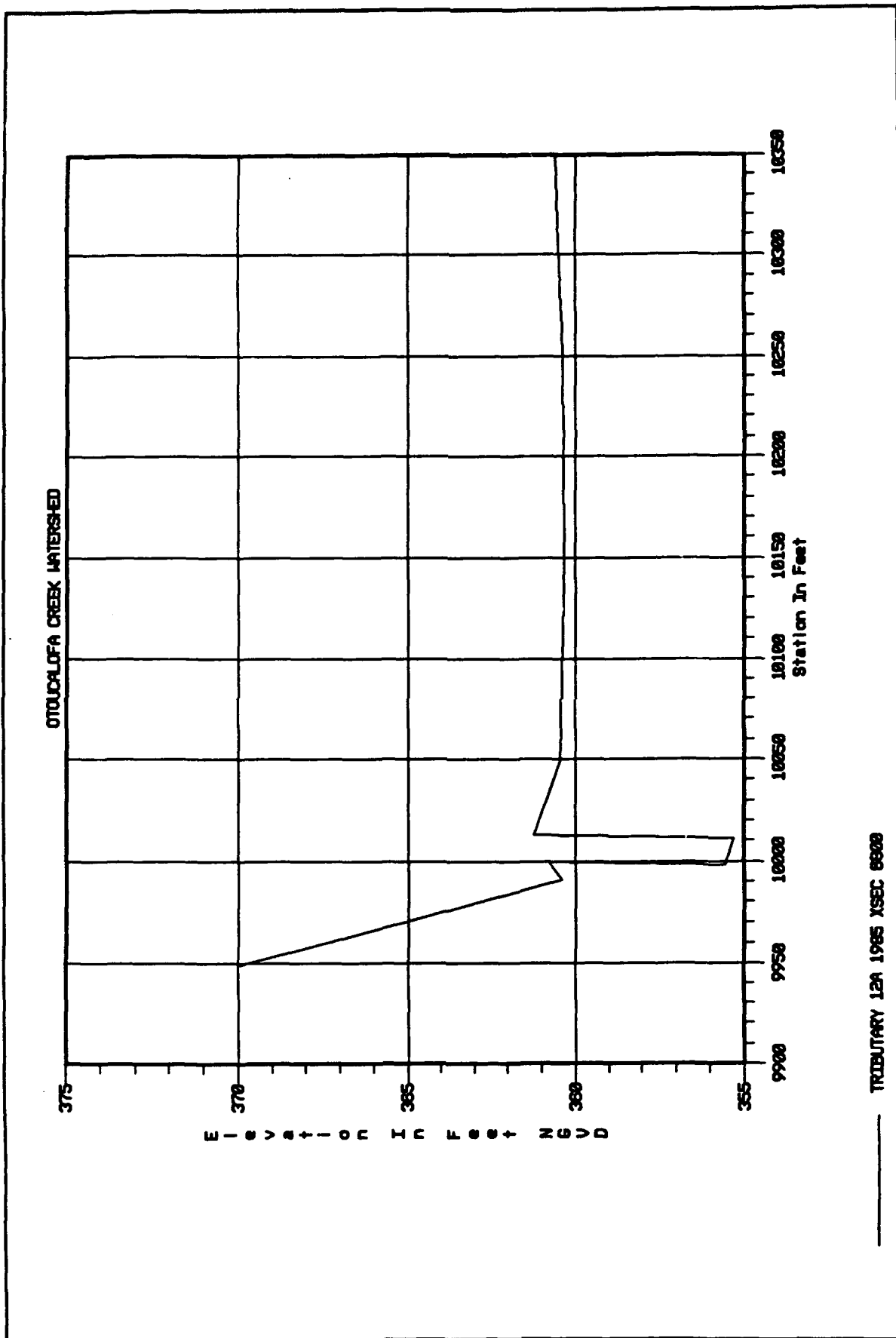


Plate C212



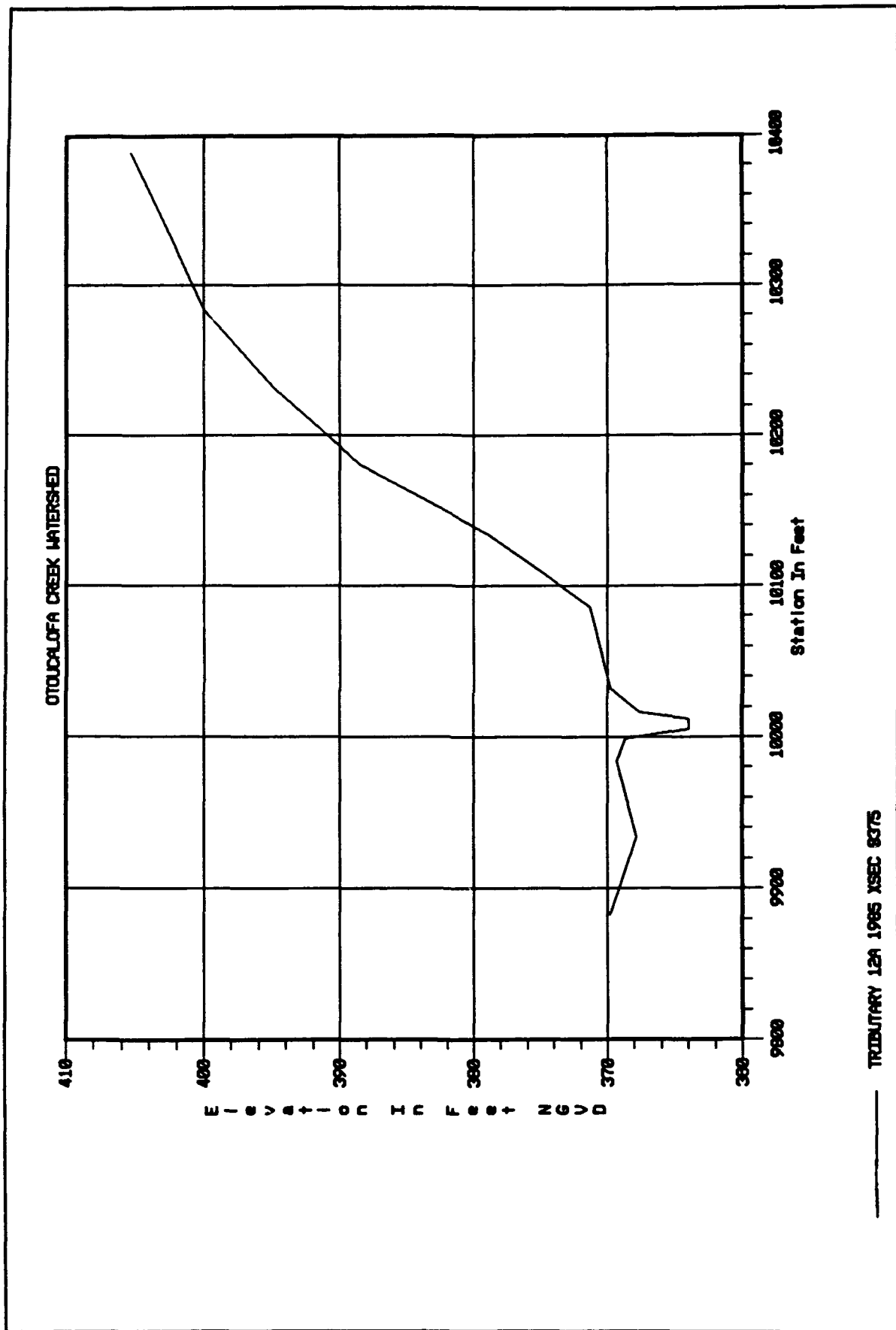
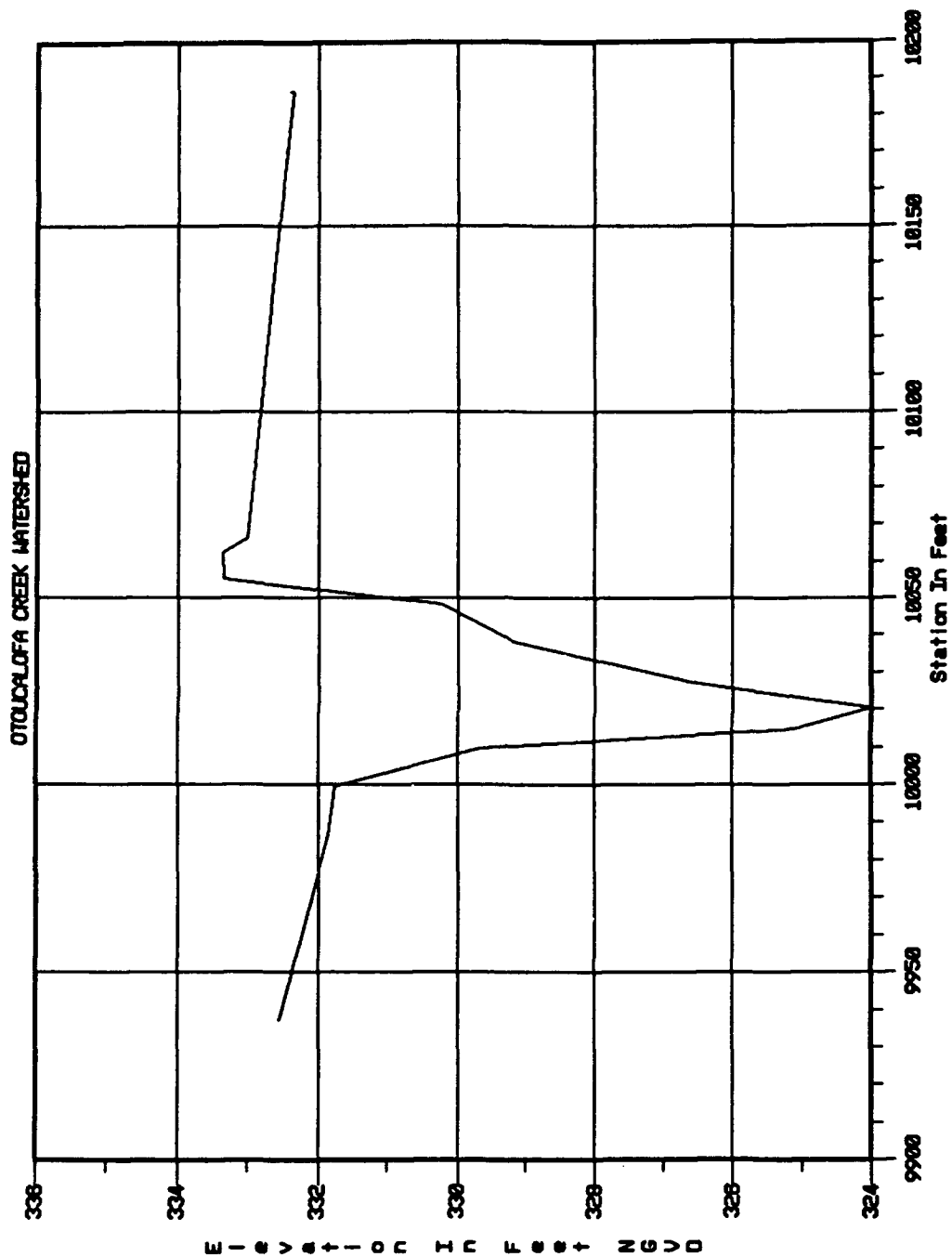
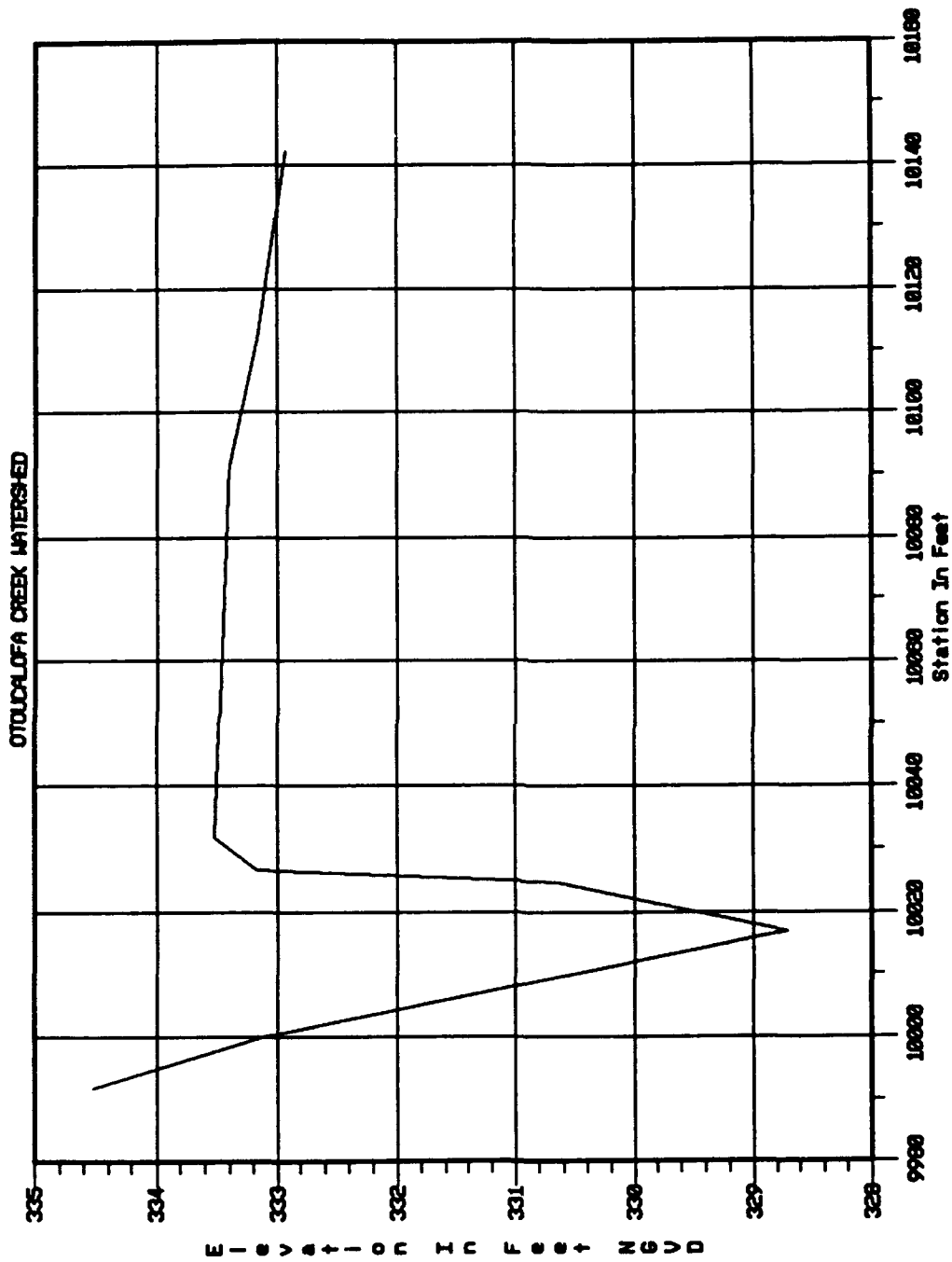


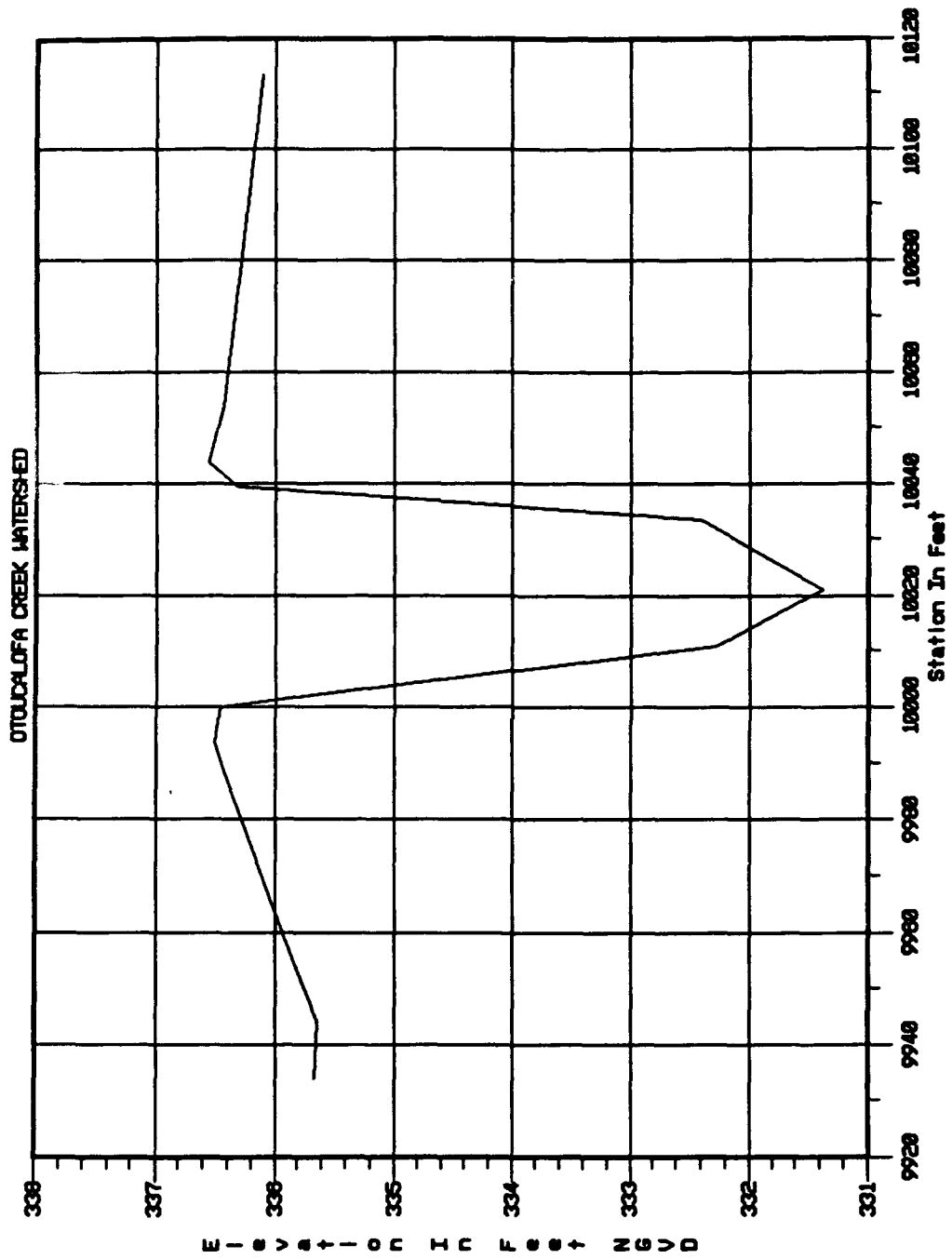
Plate C214



____ SARTER CREEK 1992 XSEC 3000



———— SARTER CREEK 1992 XSEC 0000



—— SARTER CREEK 1992 XSEC 9000

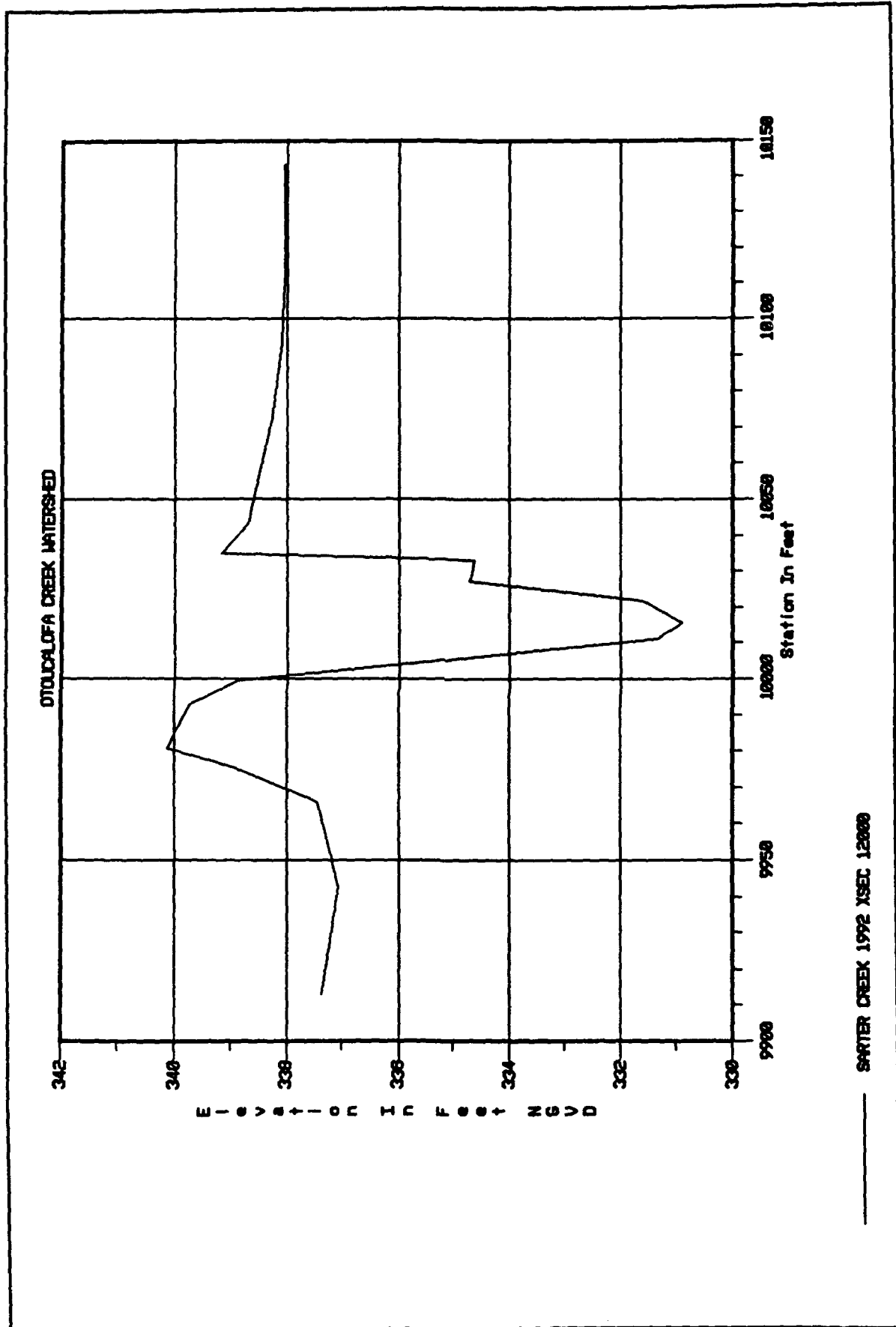
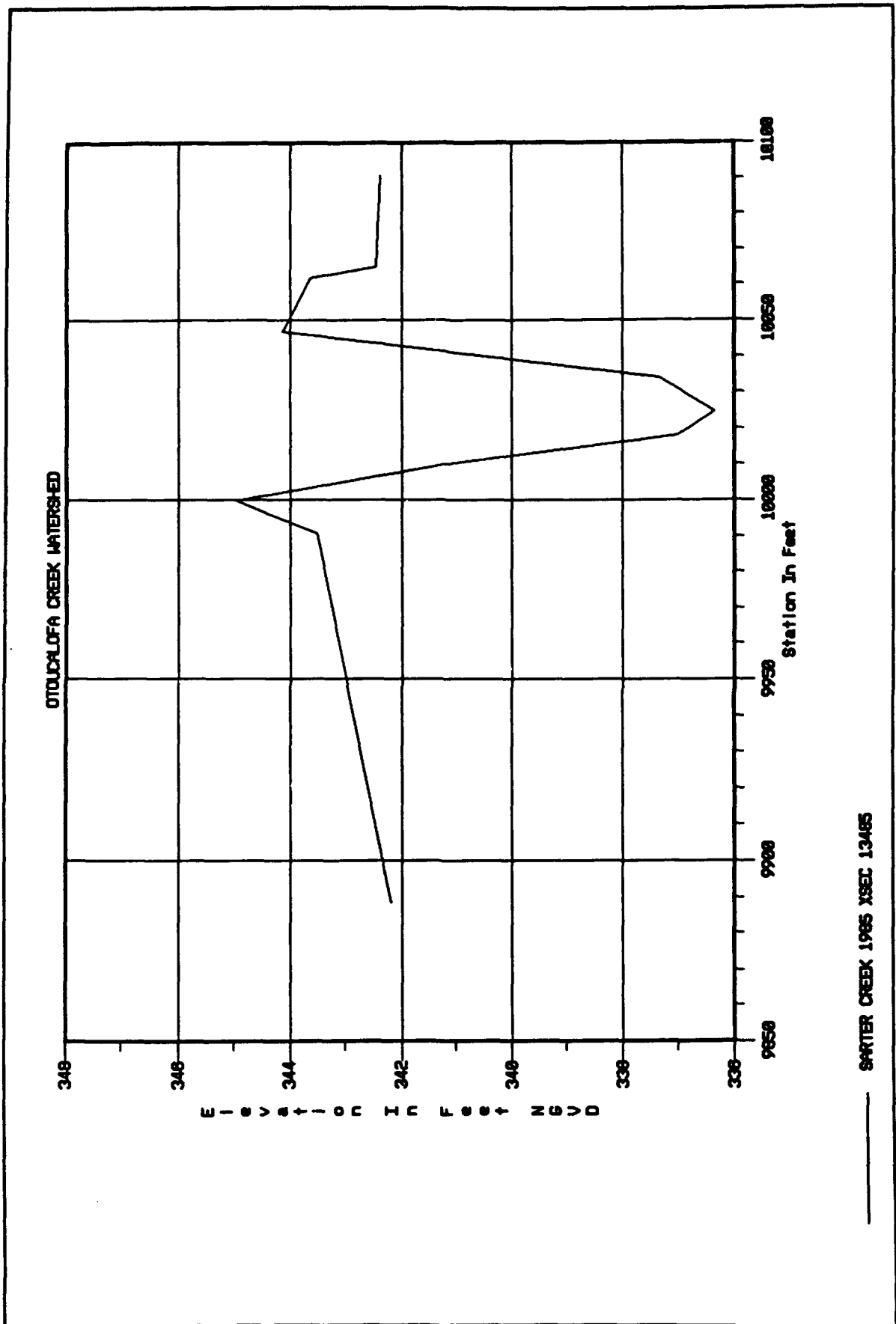


Plate C218



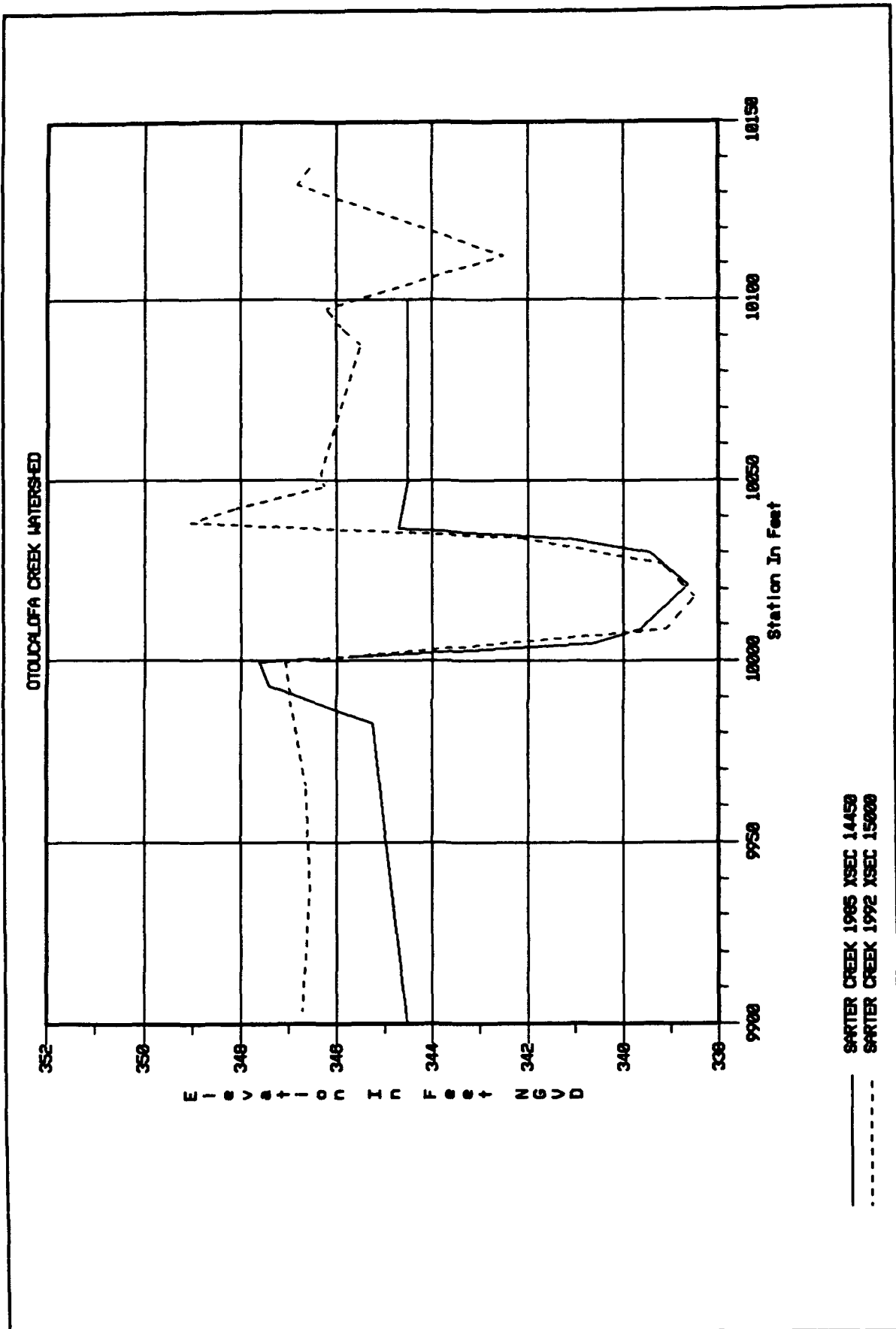
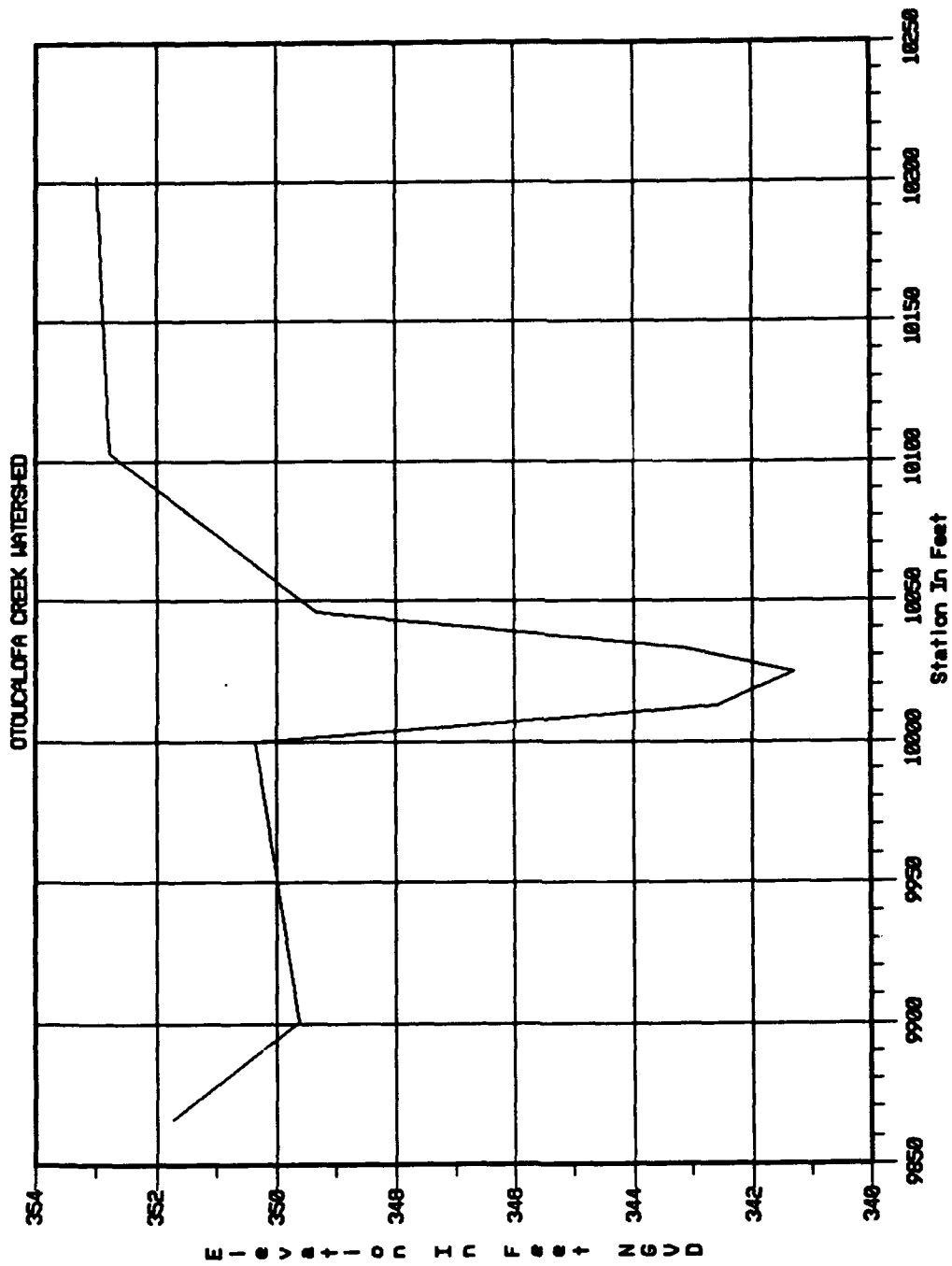


Plate C220



—— SARTER CREEK 1985 XSEC 18335

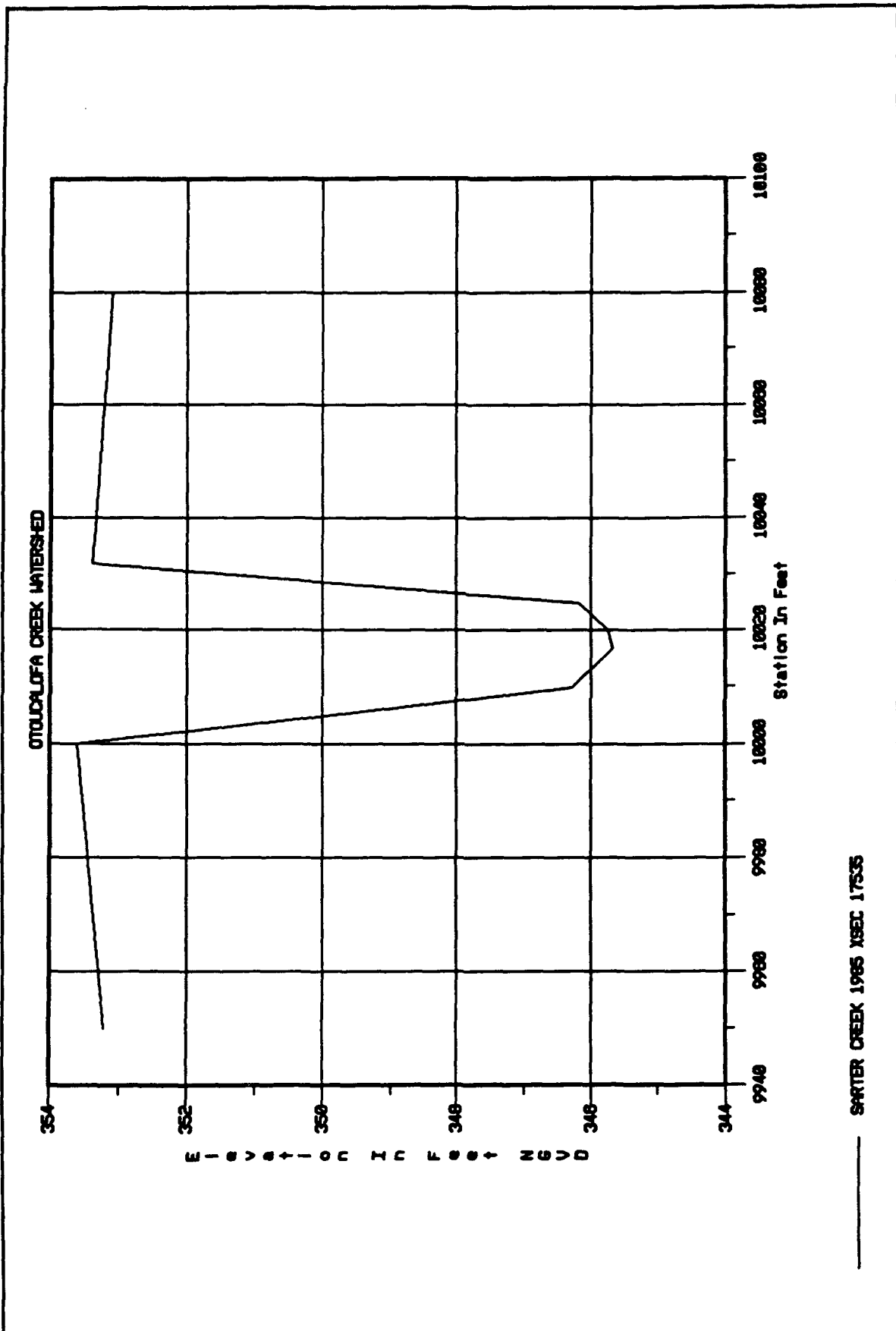
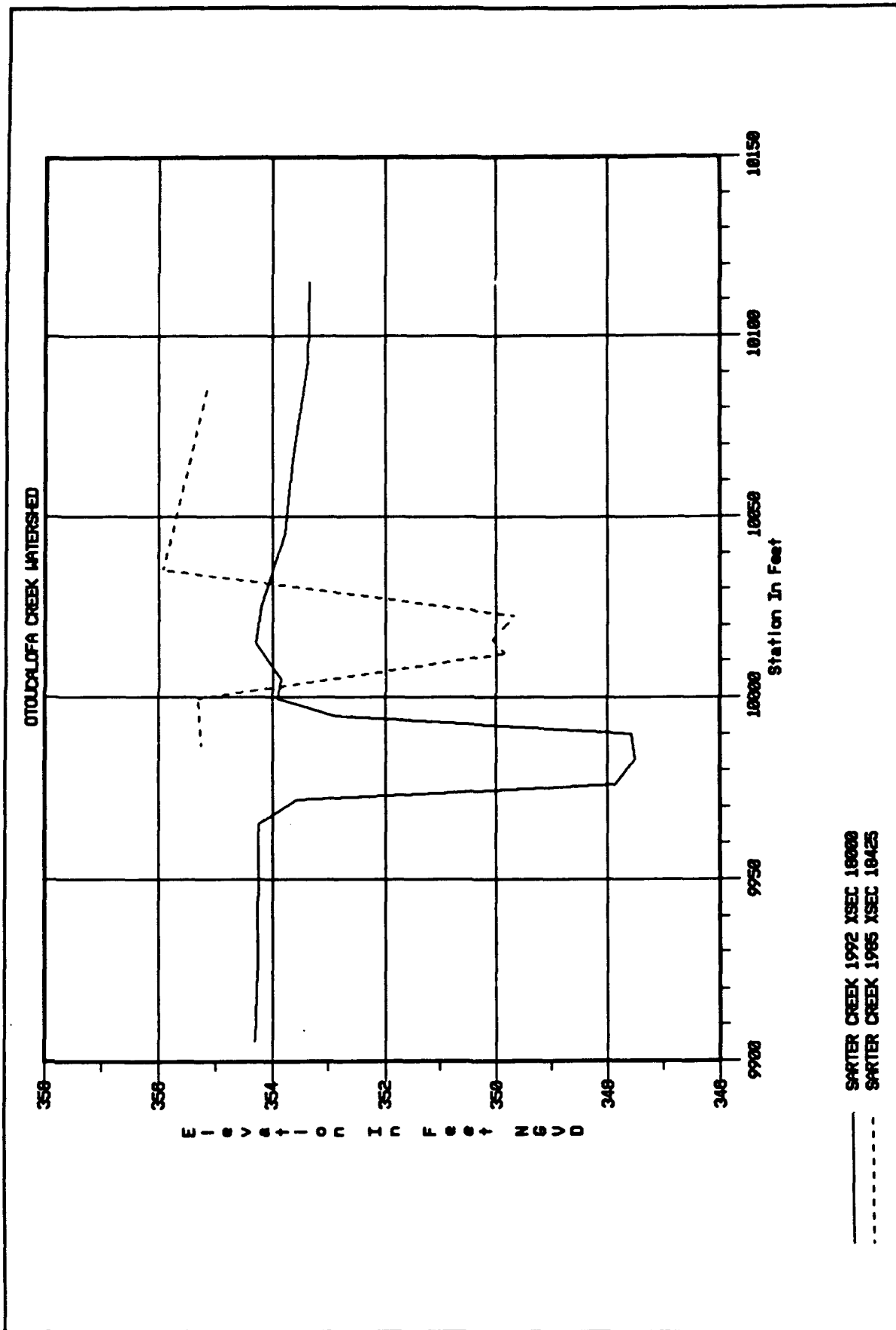
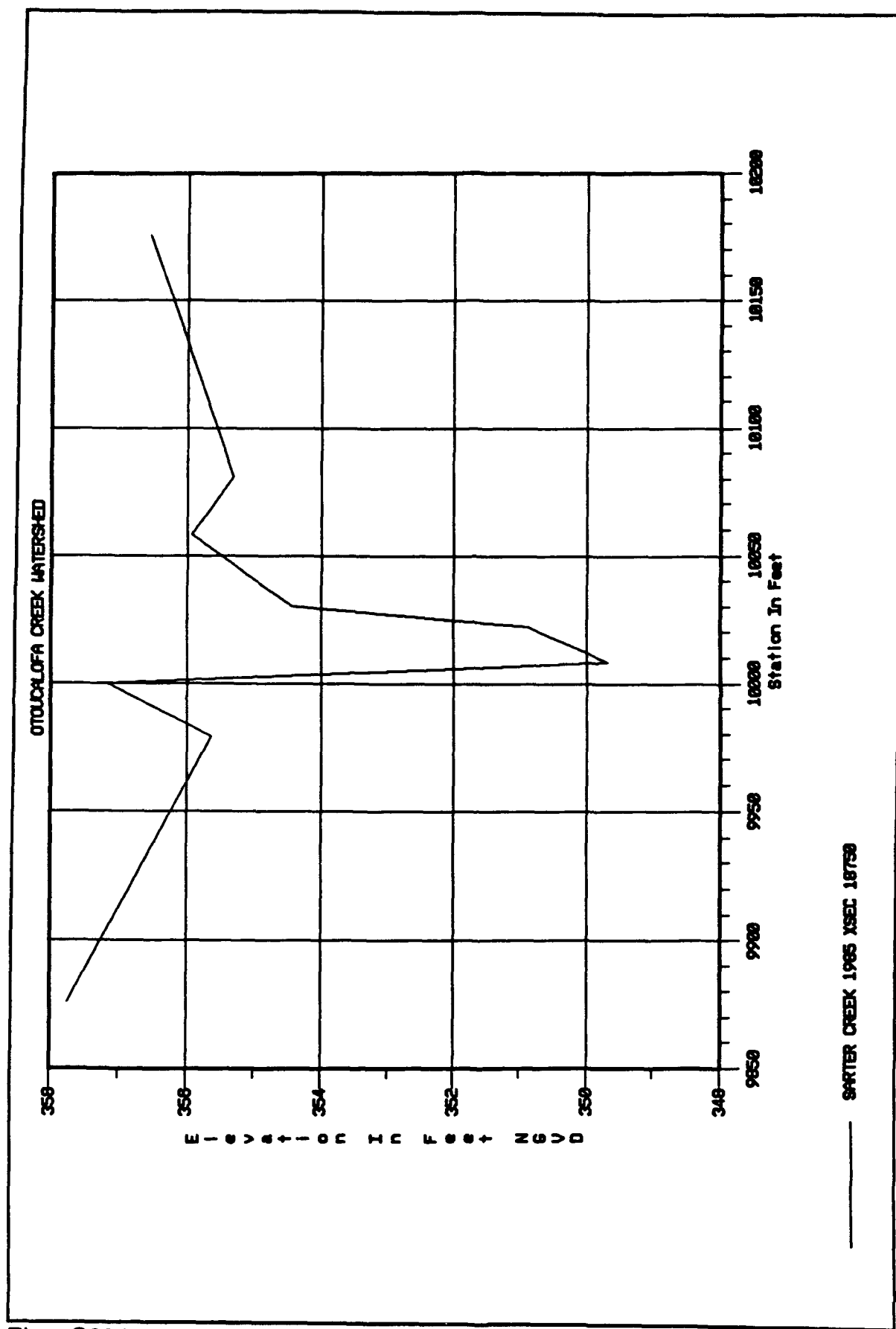
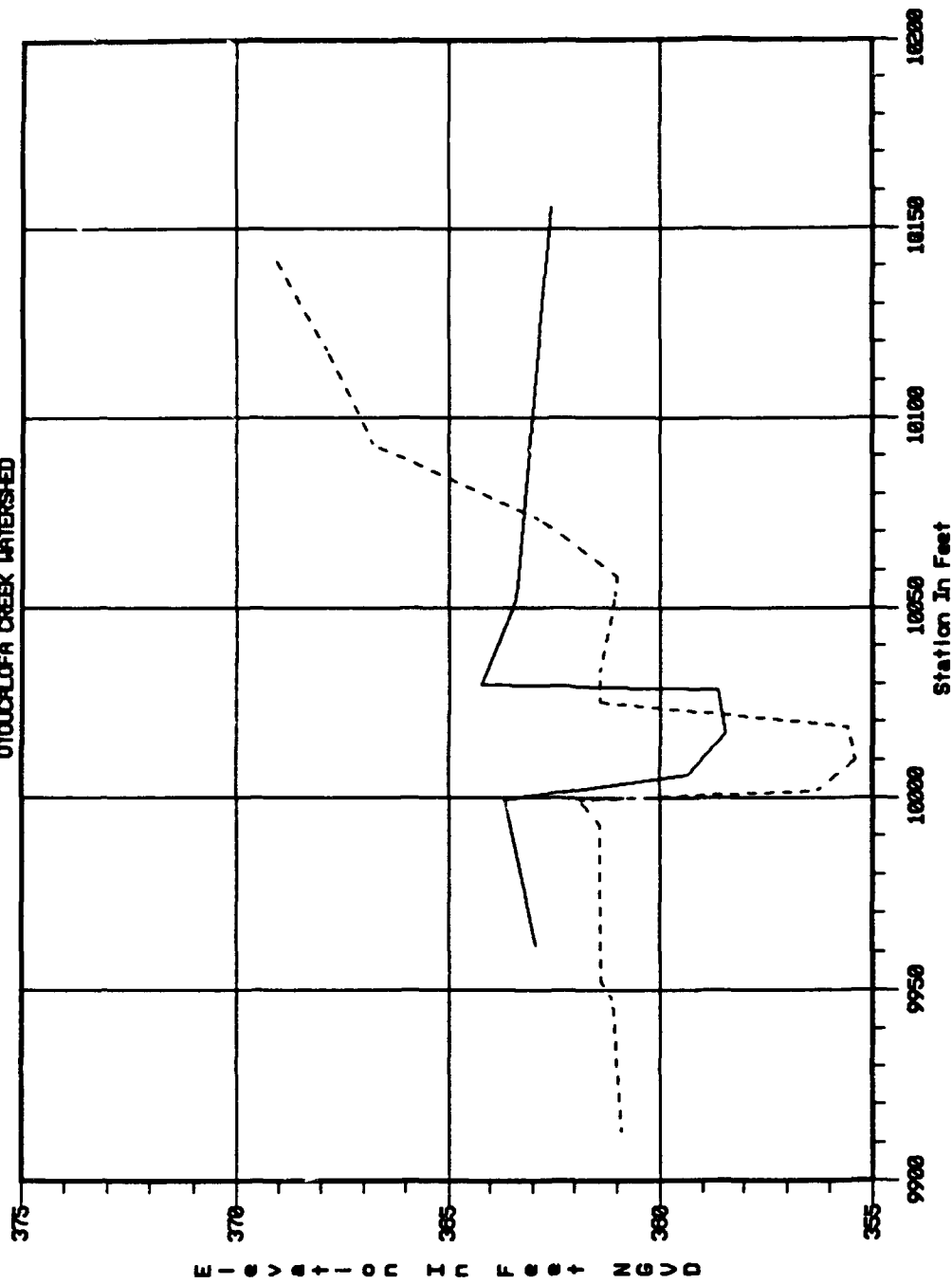


Plate C222



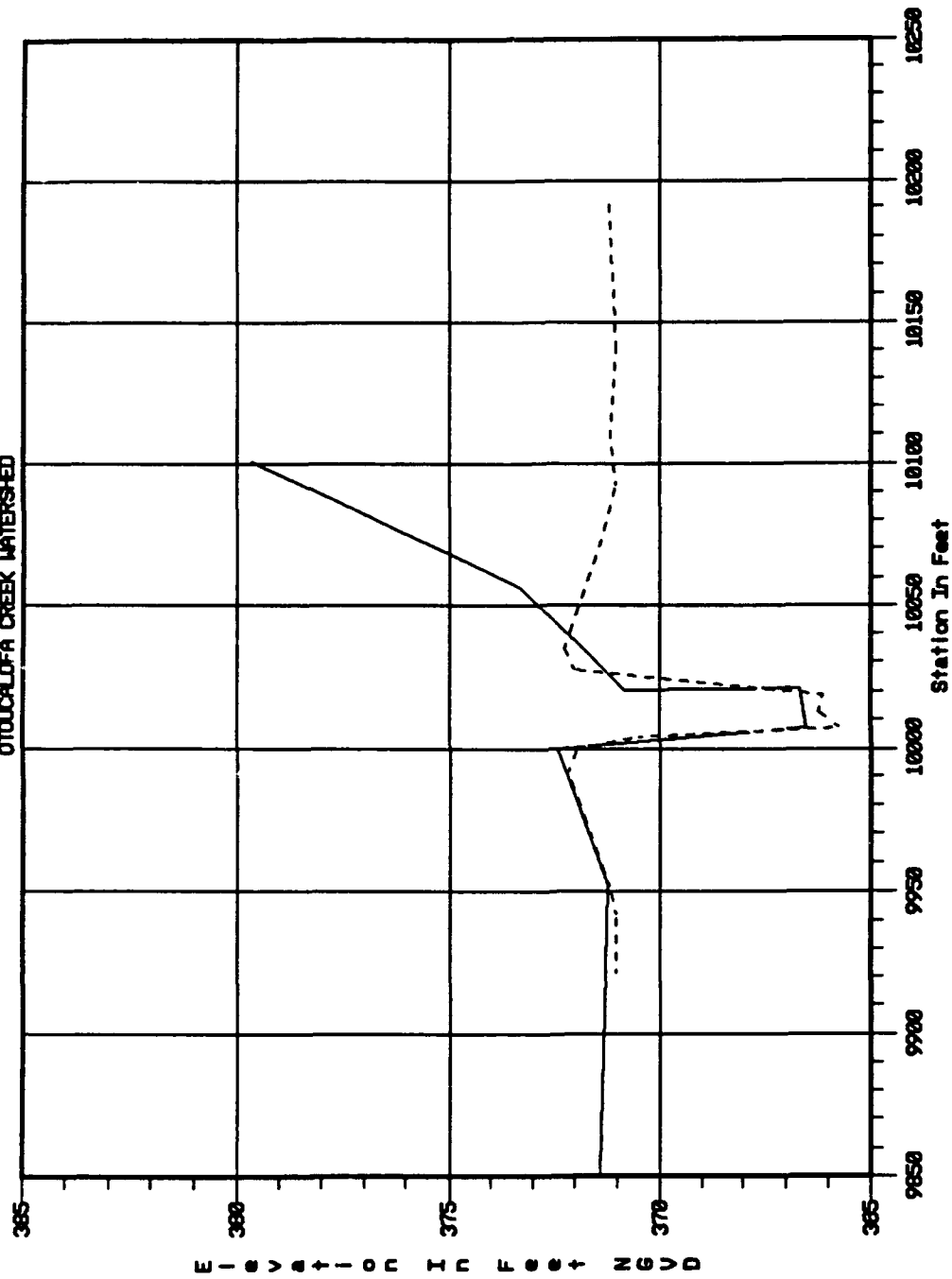


OTOLCALOFA CREEK WATERSHED



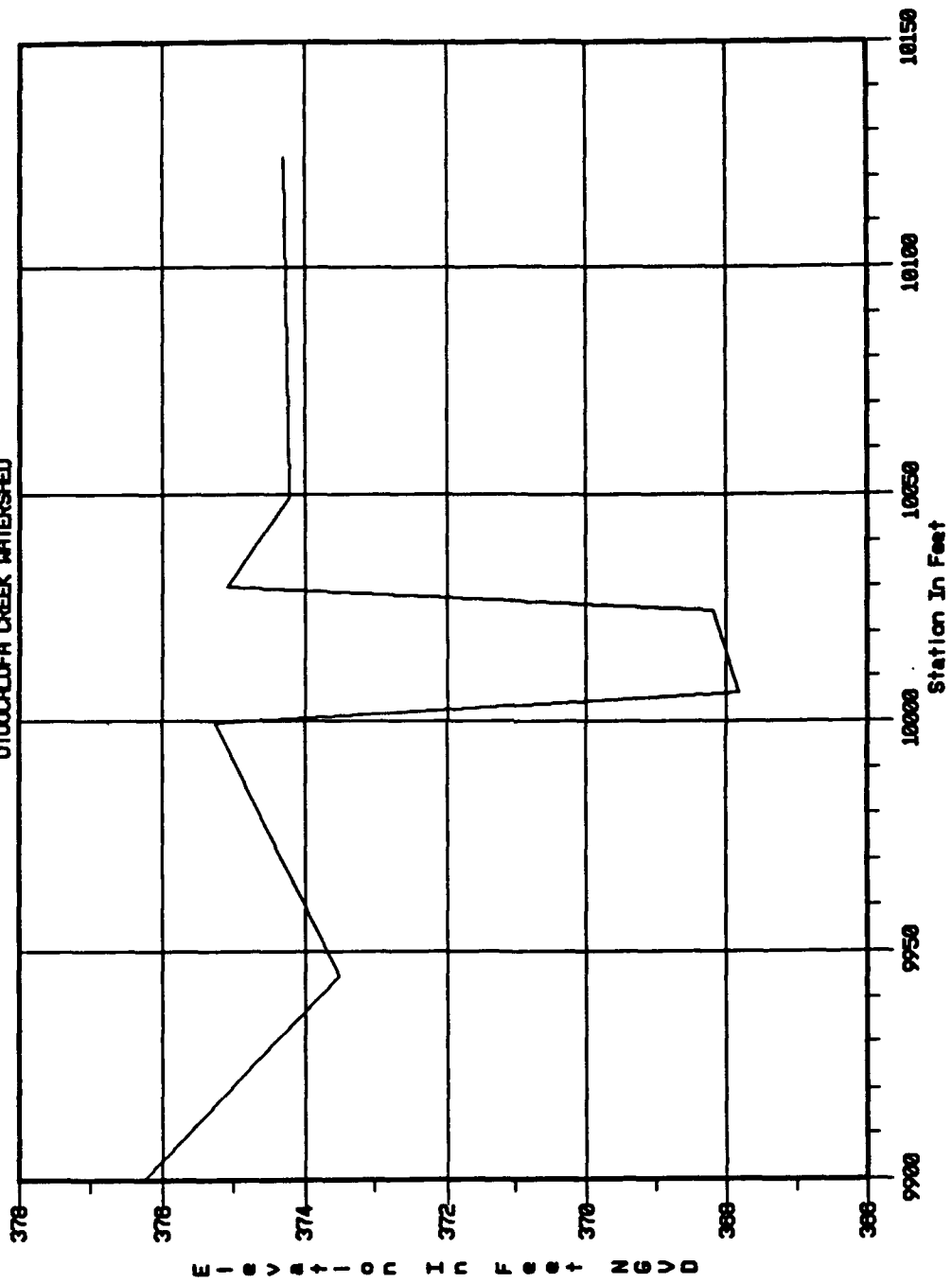
— SARTER CREEK 1985 XSEC 21450
 - - - SARTER CREEK 1992 XSEC 21000

OTOLOXLOFA CREEK WATERSHED



— SARTER CREEK 1985 XSEC 24150
 - - - SARTER CREEK 1992 XSEC 24000

OTOLUCKLOFA CREEK WATERSHED



SHARPER CREEK 1965 XSEC 25020

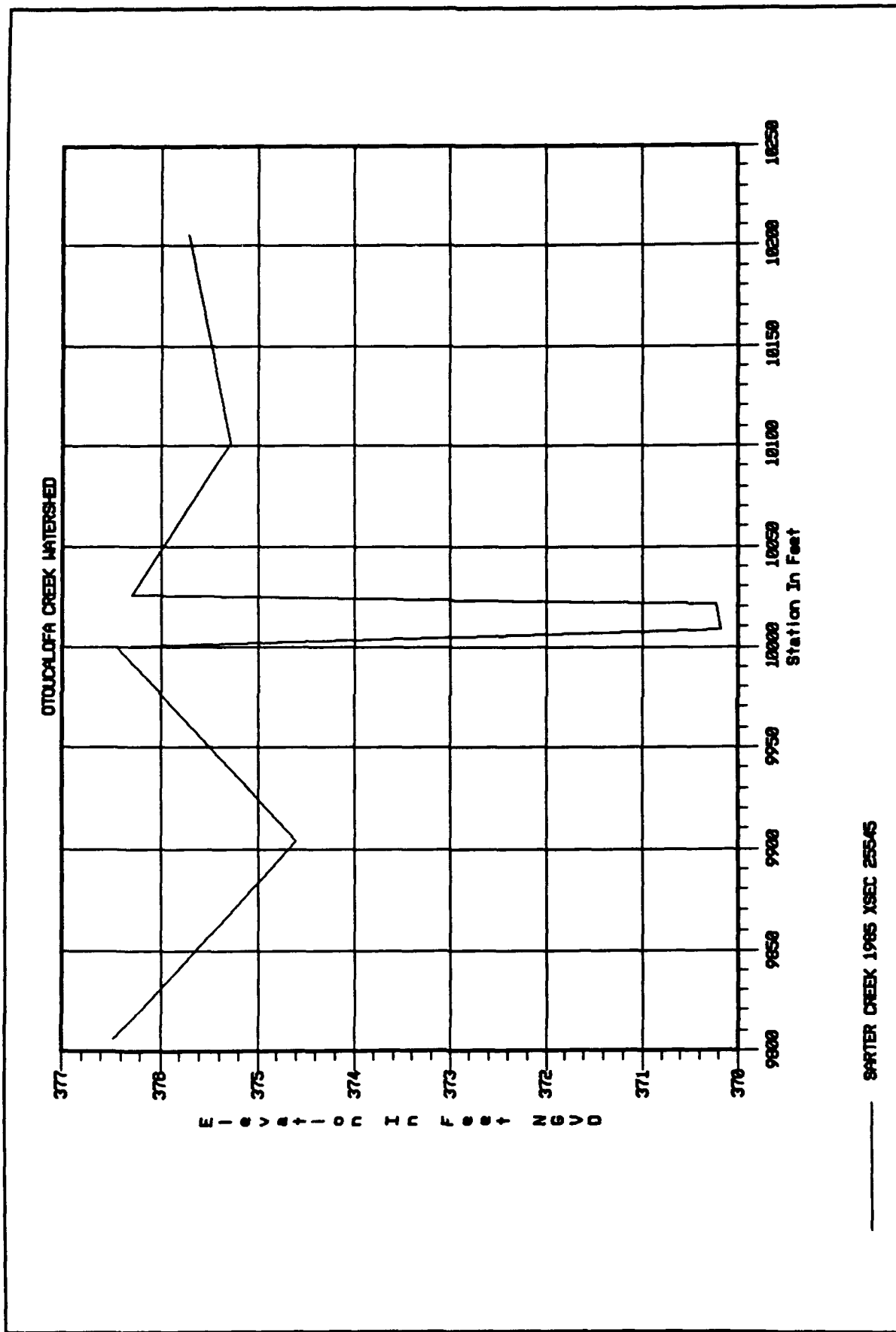
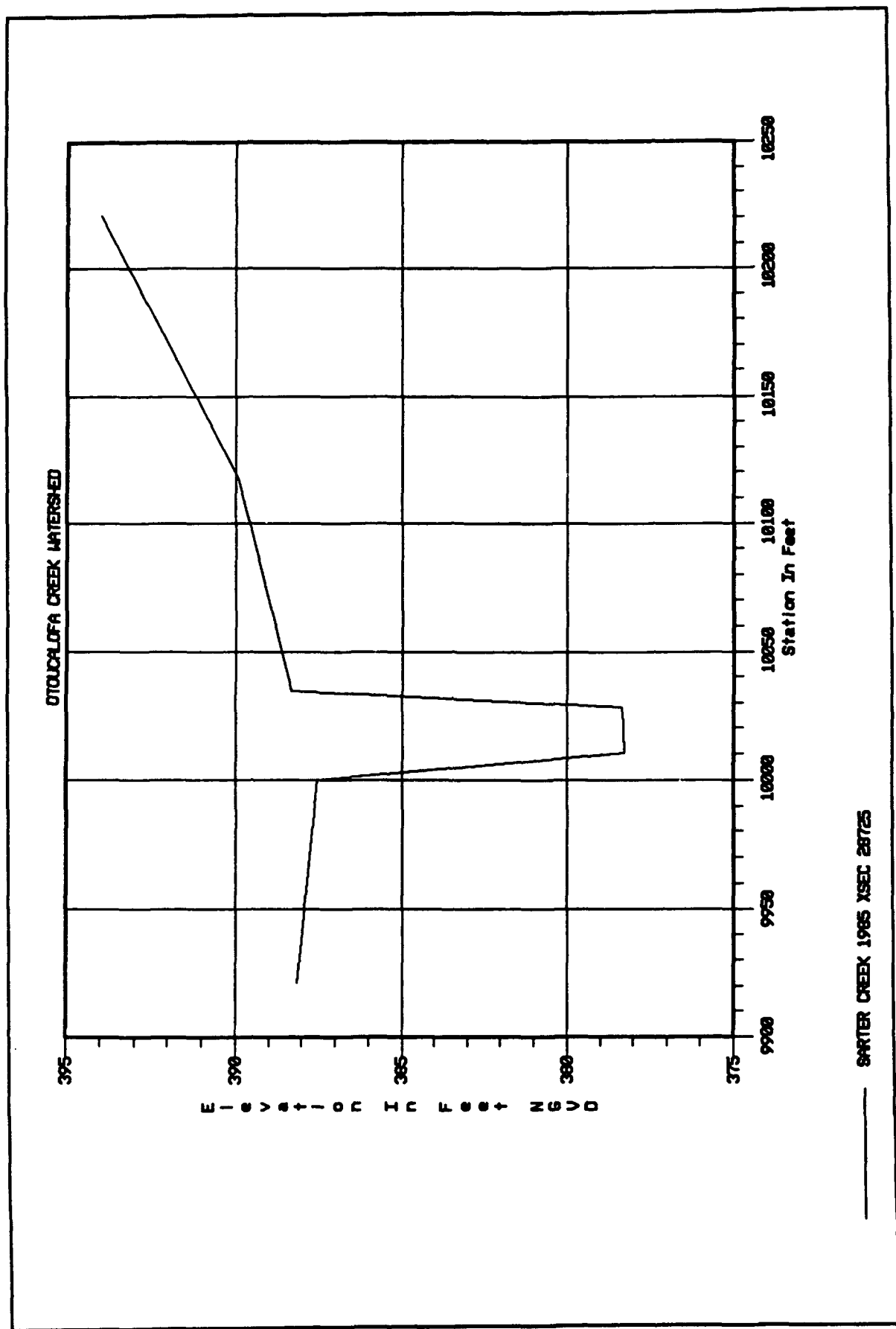


Plate C228



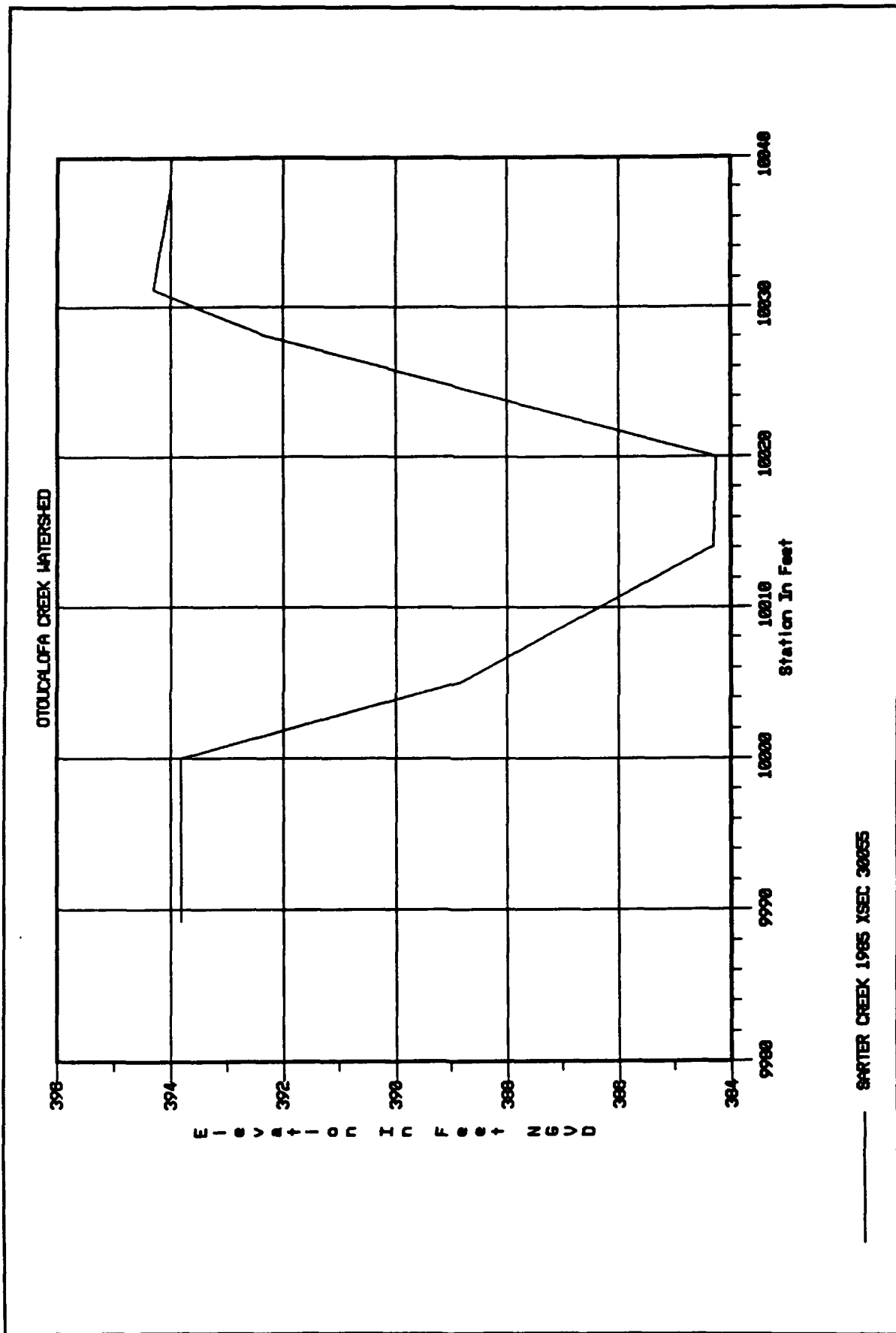
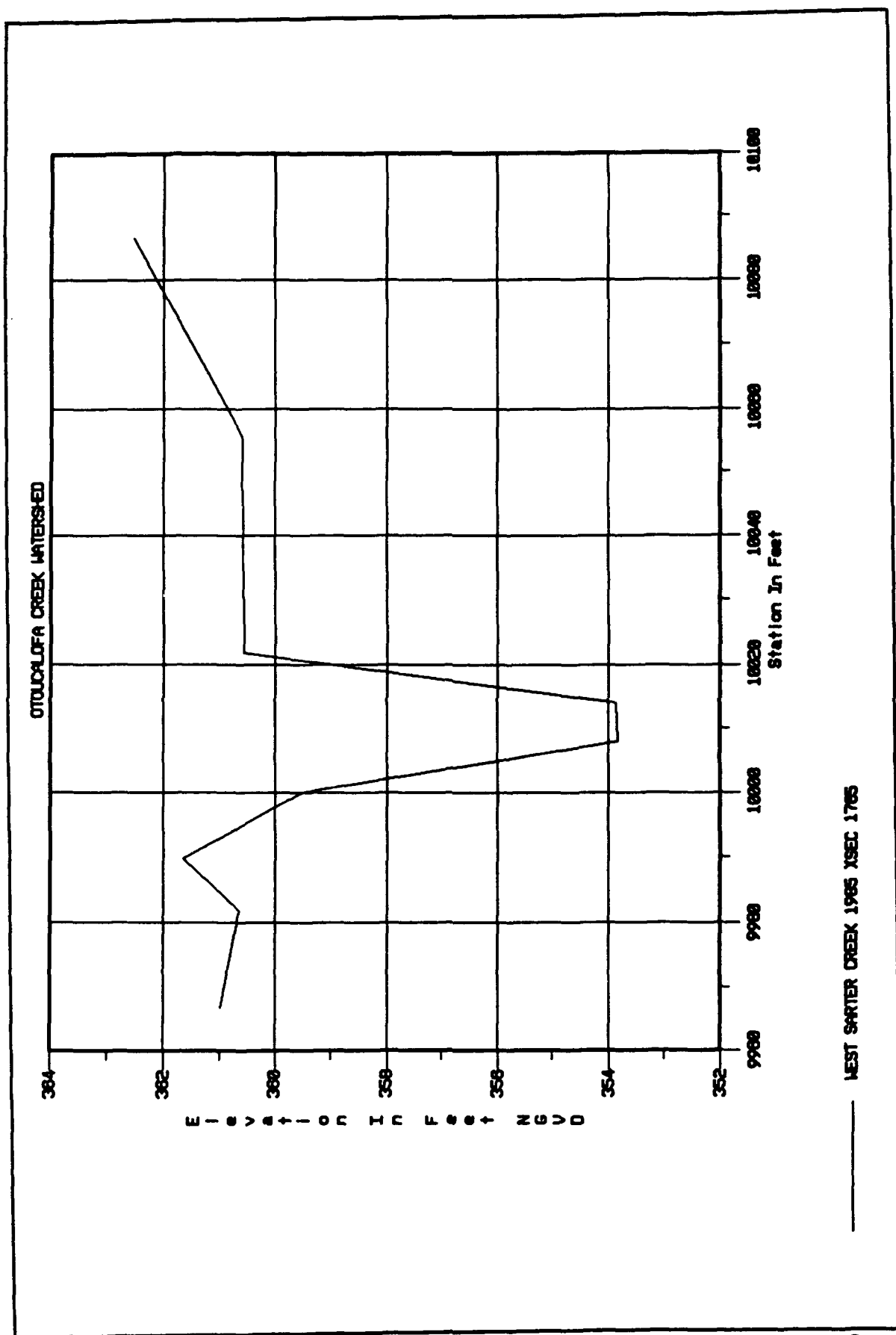


Plate C230



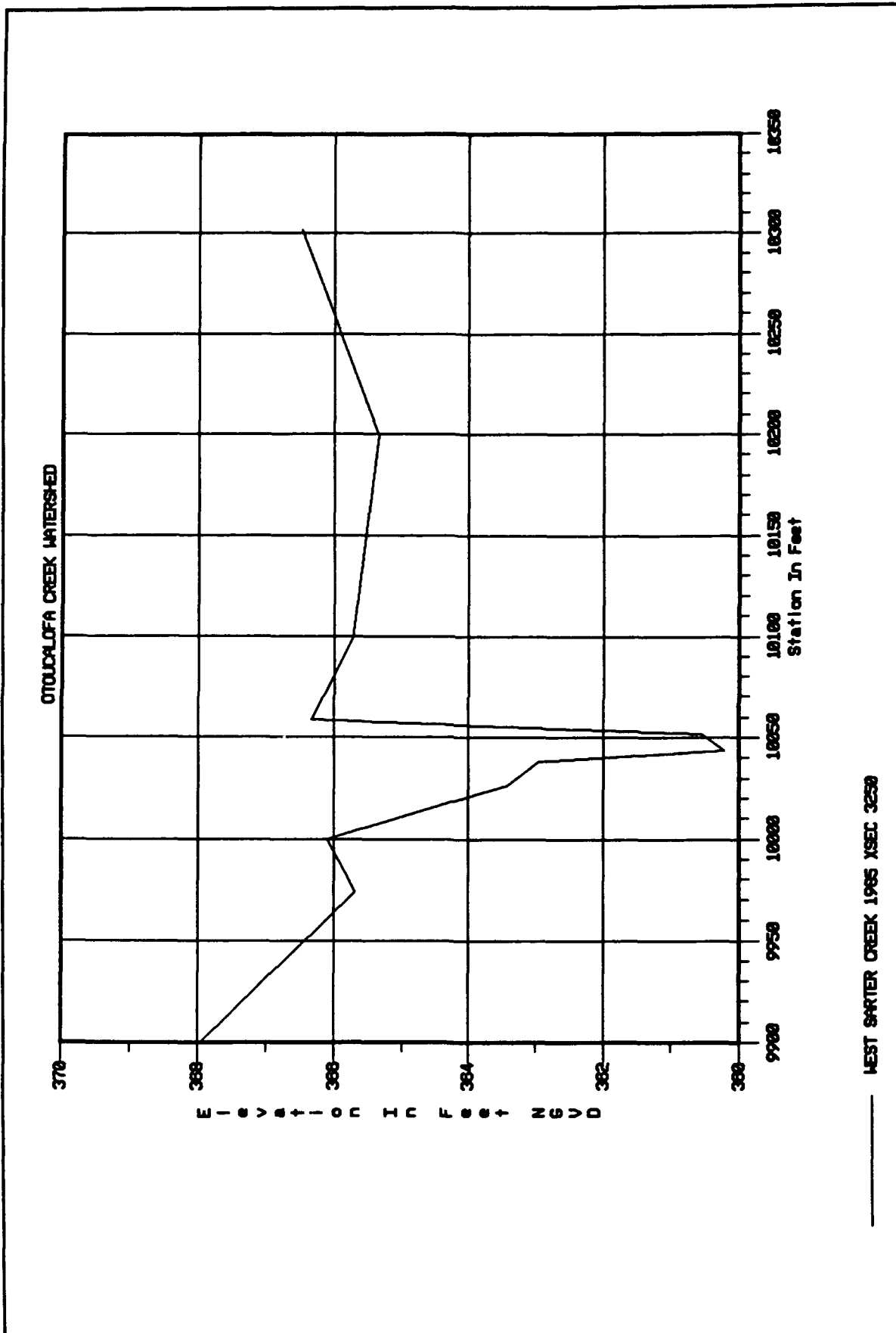
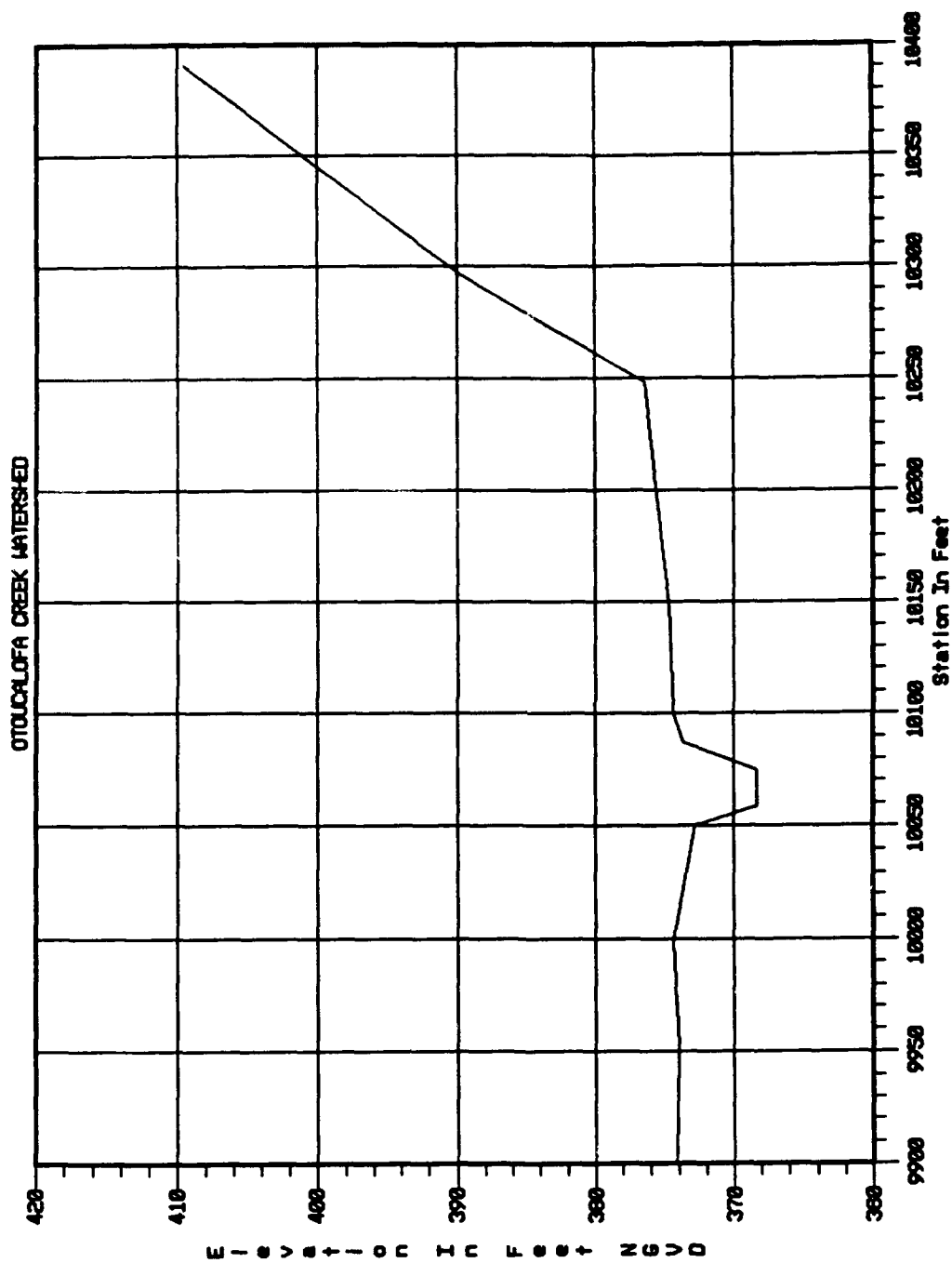


Plate C232



WEST SARTER CREEK 1985 XSEC 5150

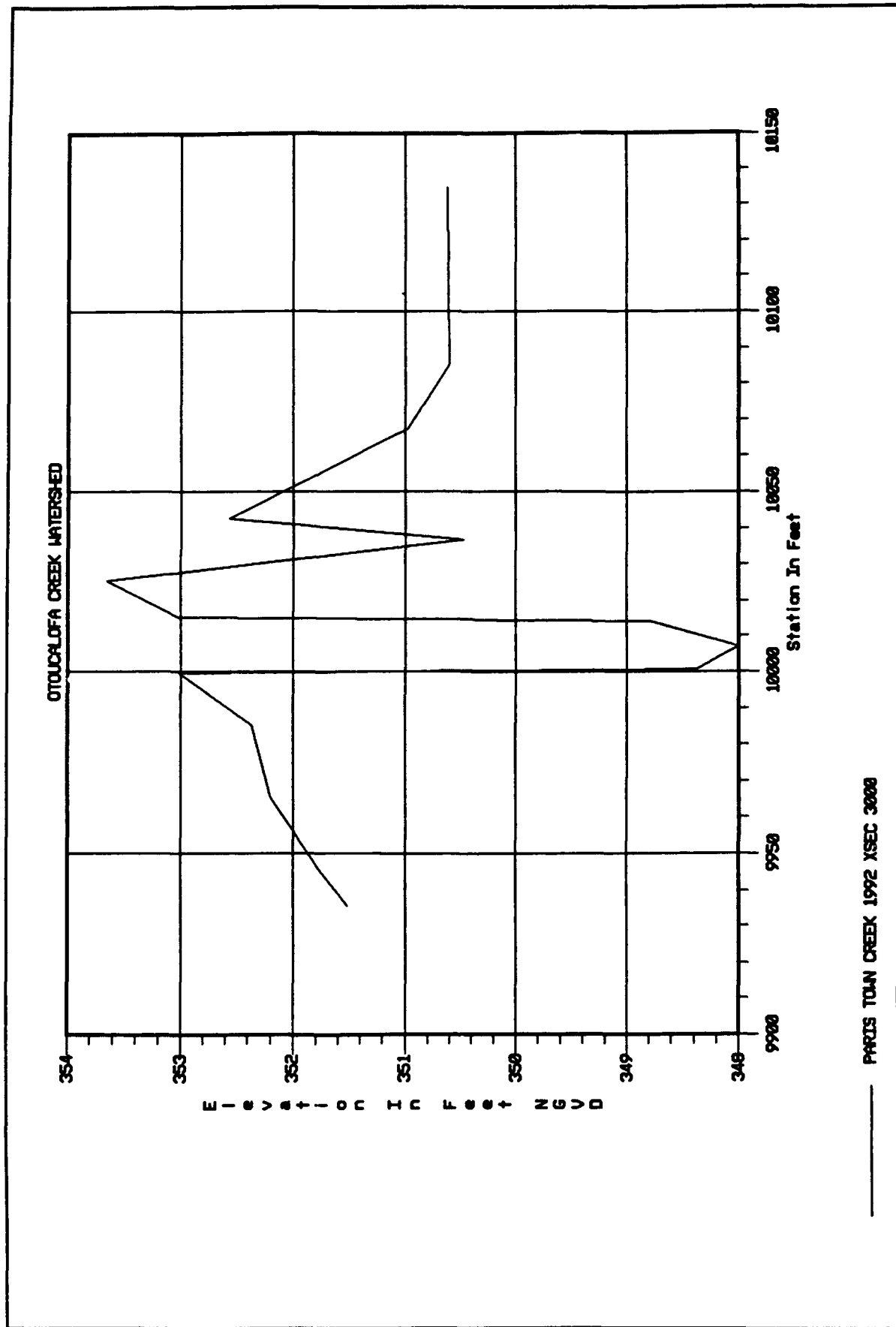
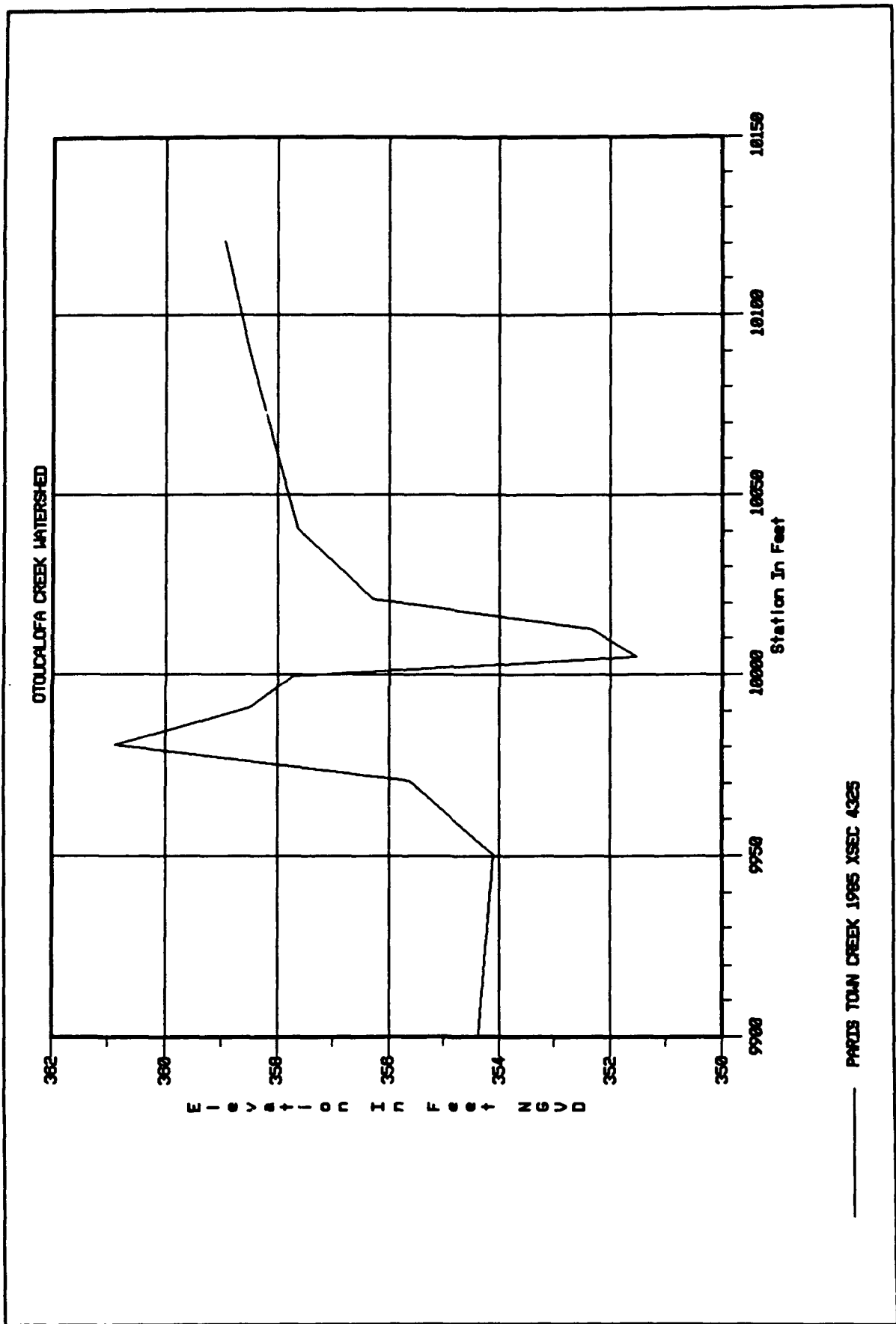


Plate C234



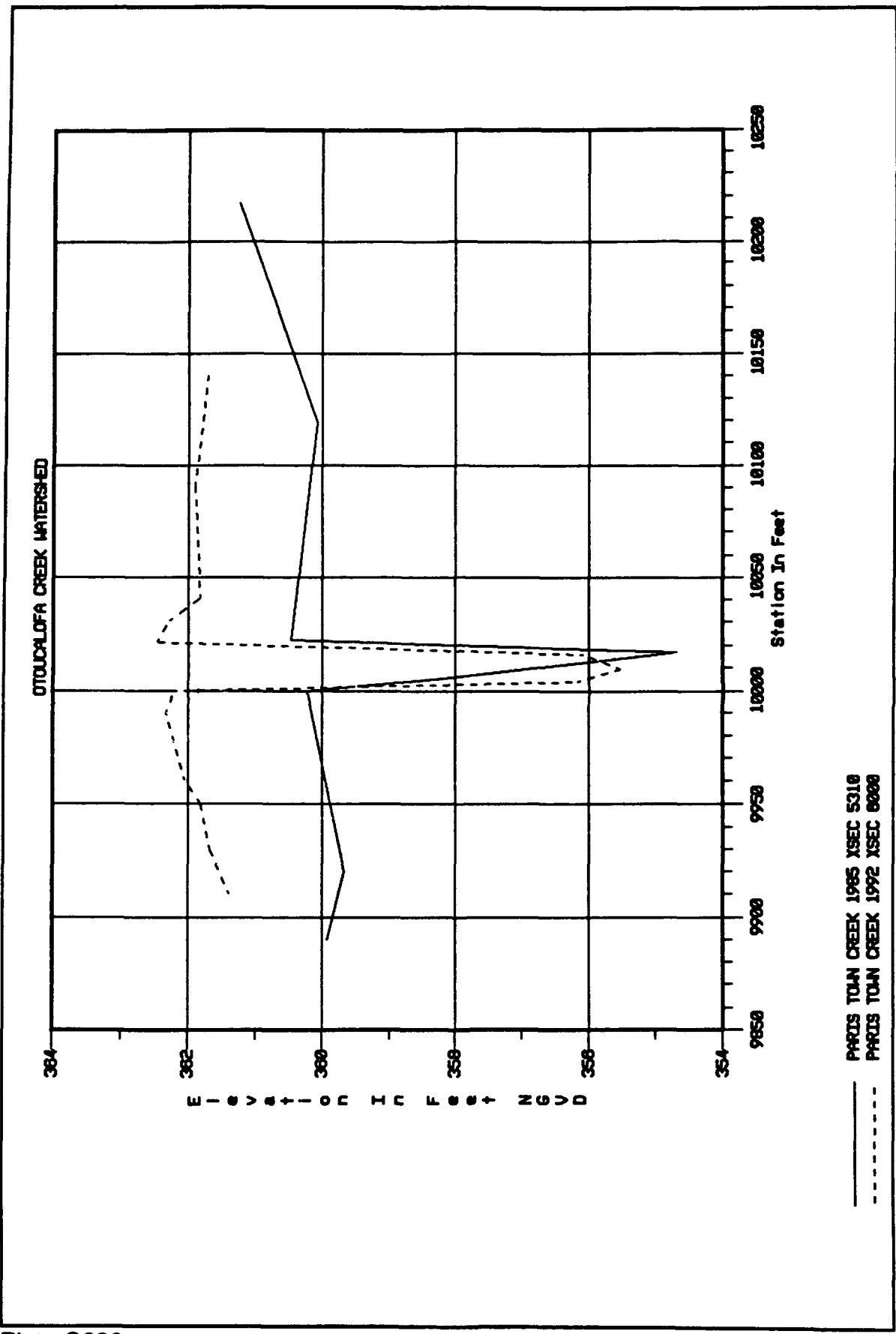
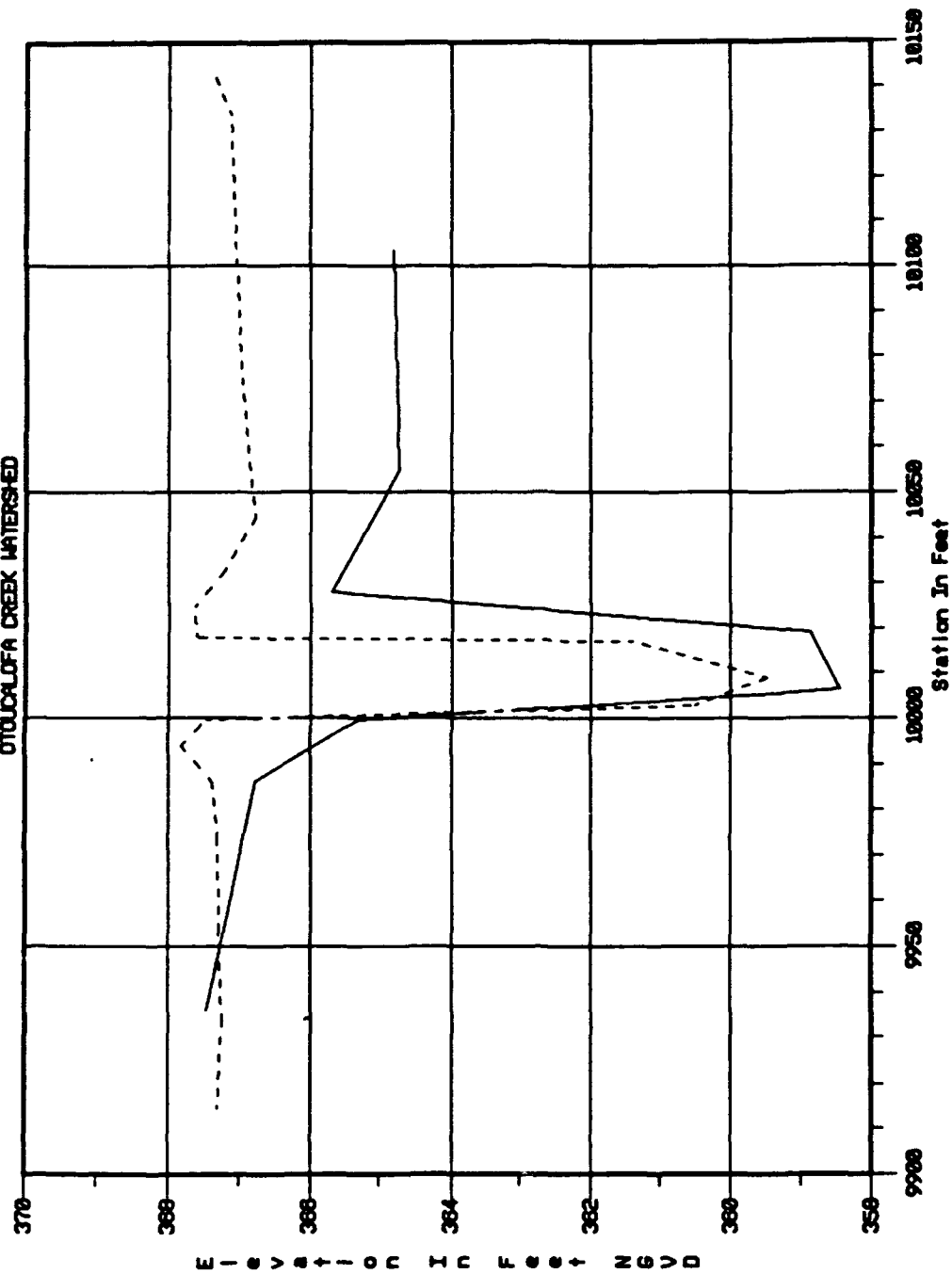


Plate C236

OTOLUOLUFA CREEK WATERSHED



—— PARIS TOUN CREEK 1985 XSEC 8708
 ---- PARIS TOUN CREEK 1992 XSEC 7508

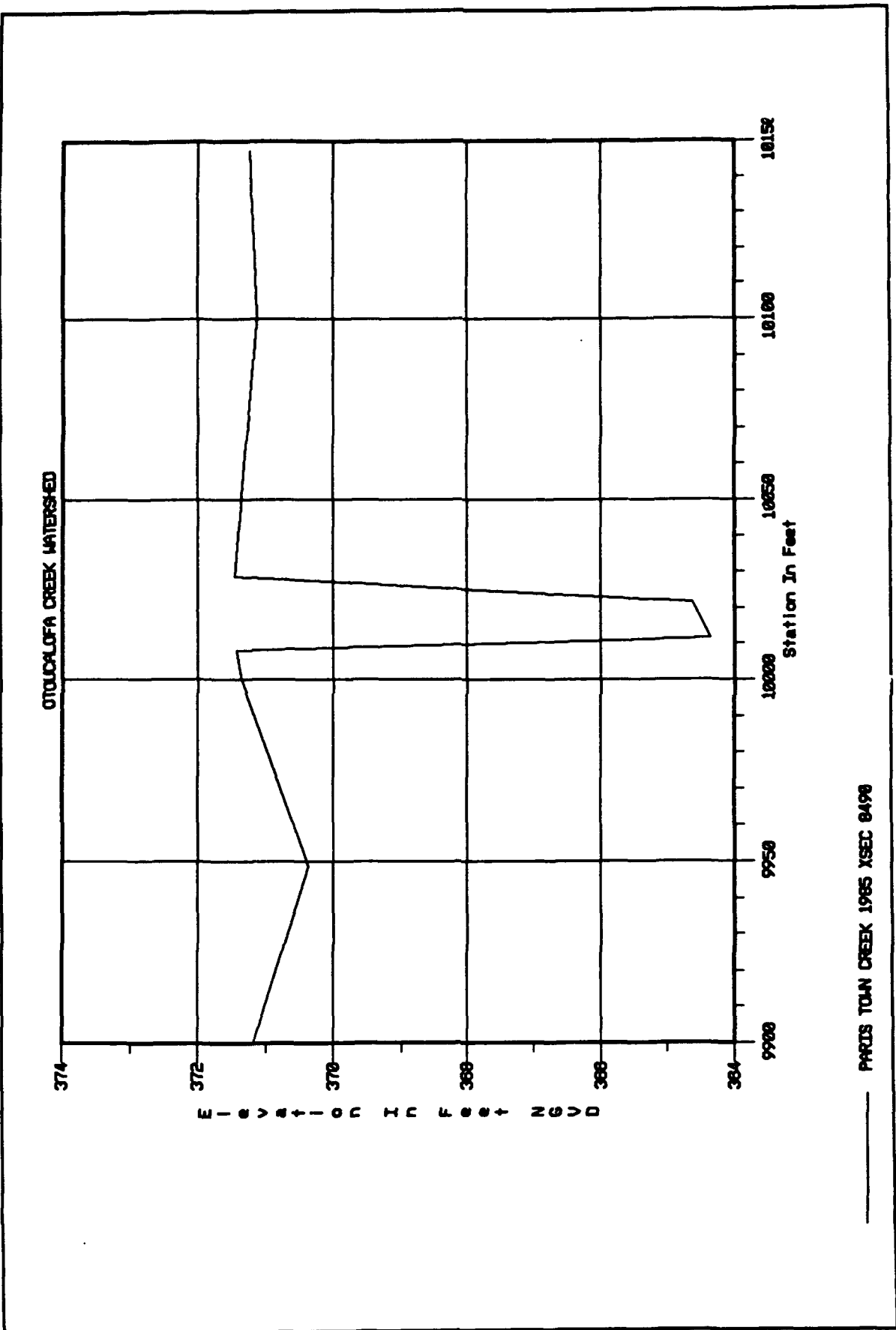
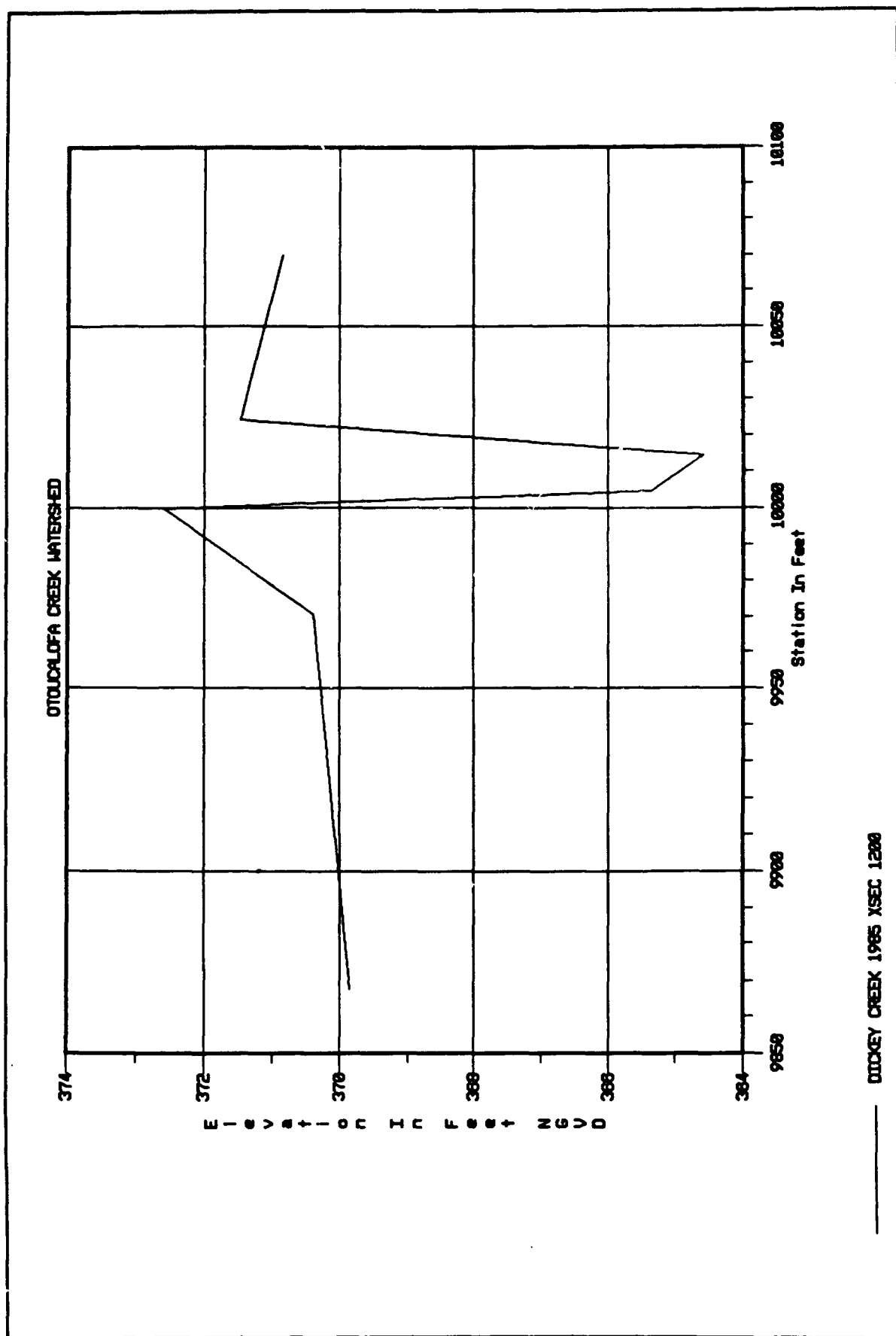
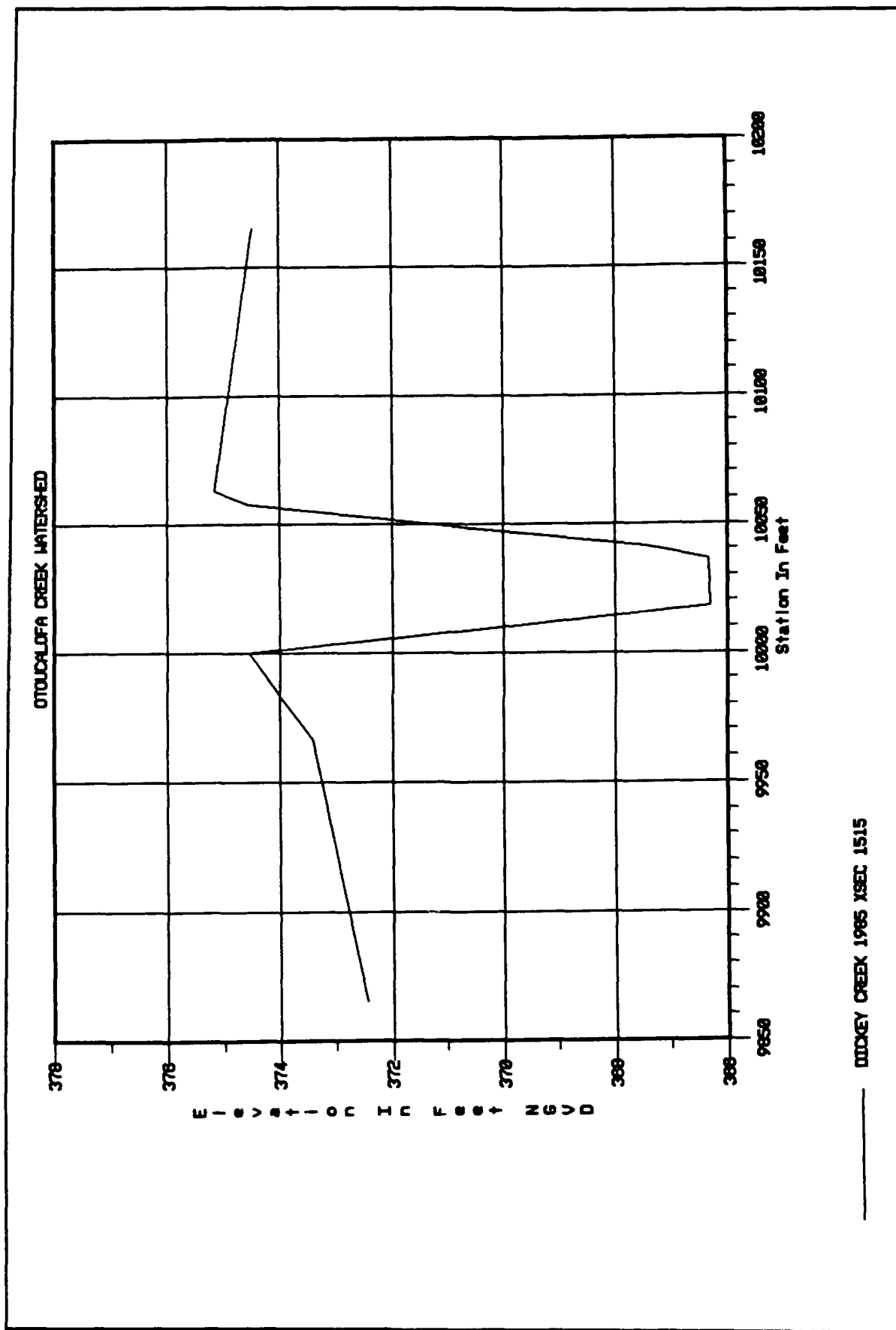
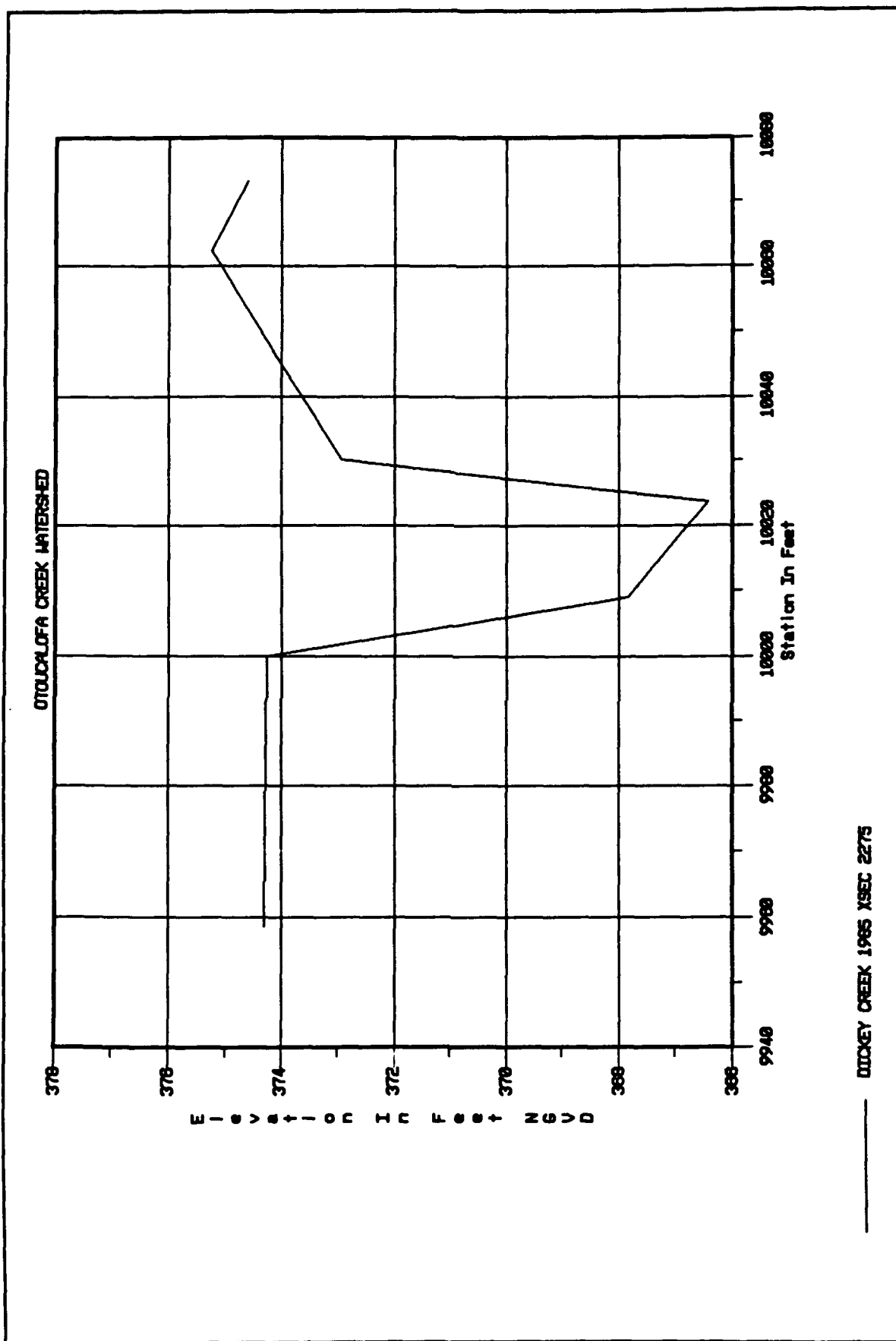


Plate C238







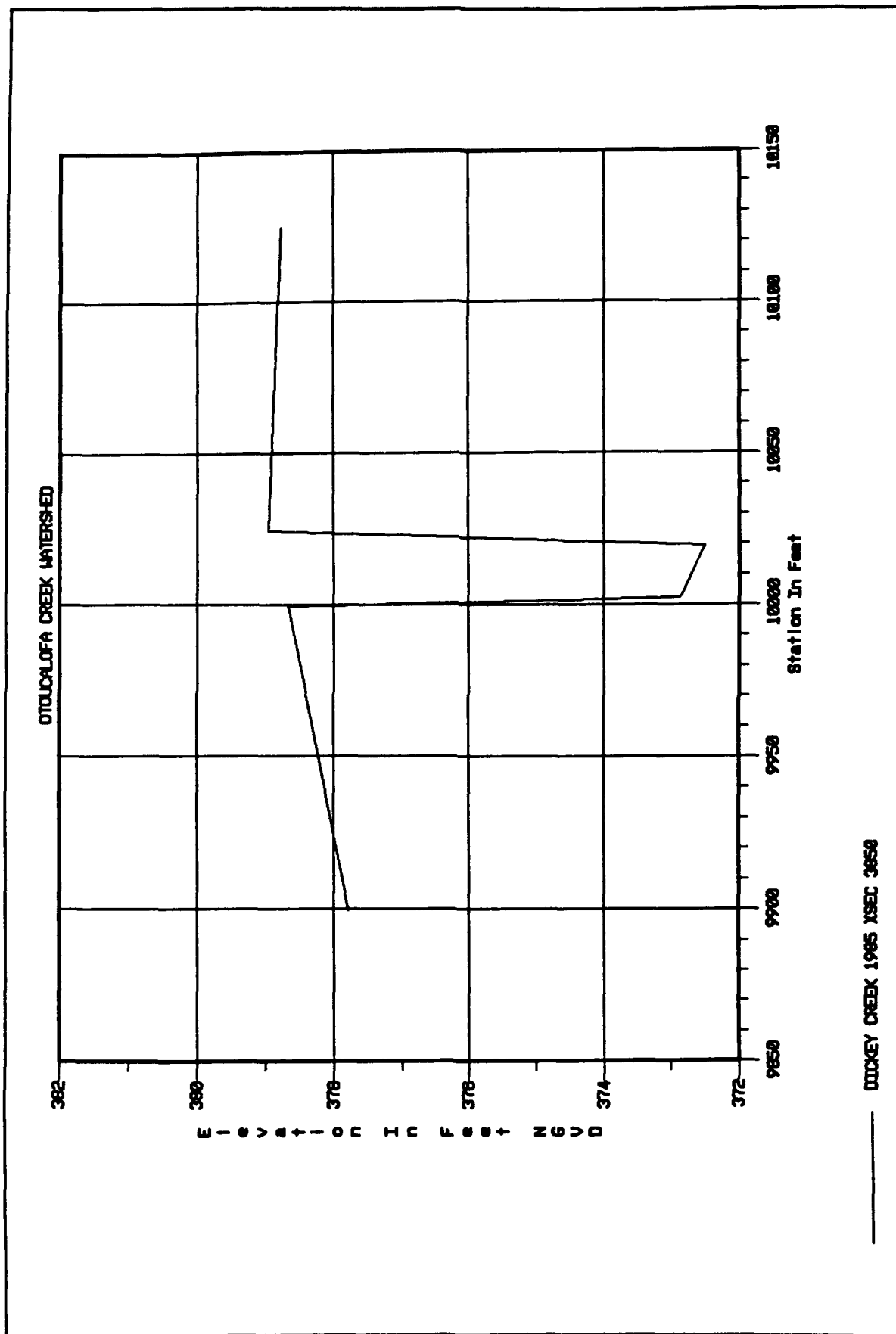
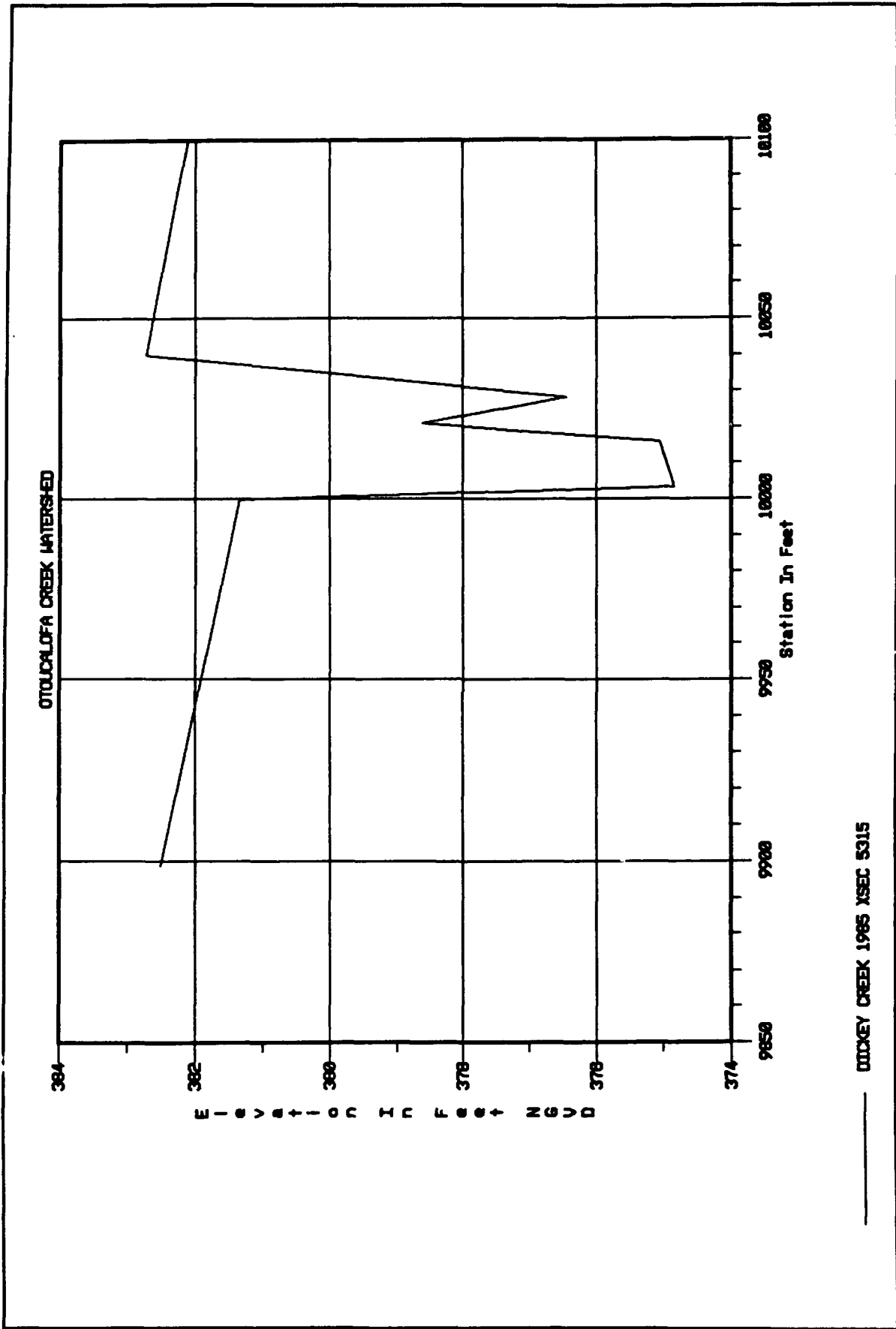


Plate C242



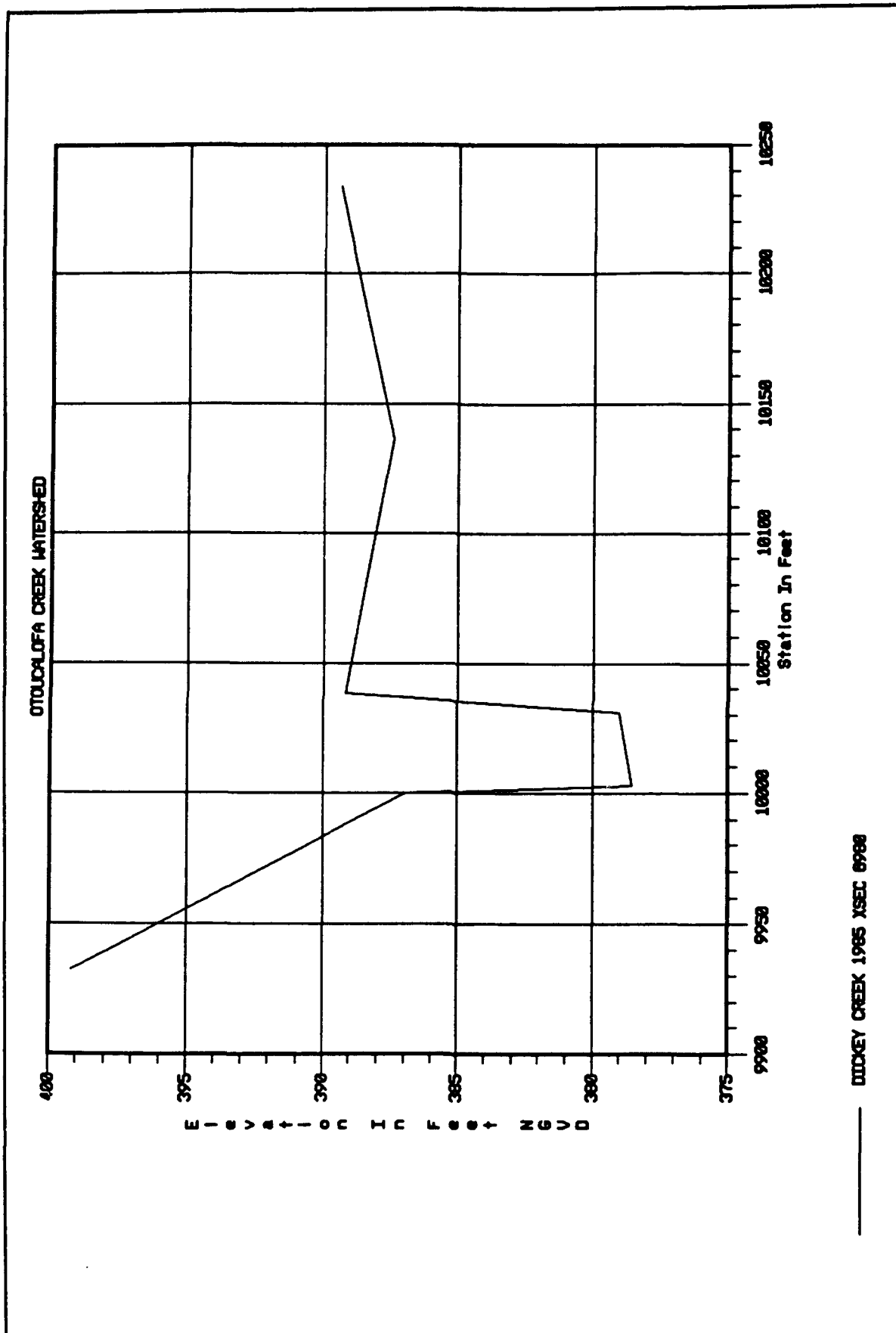
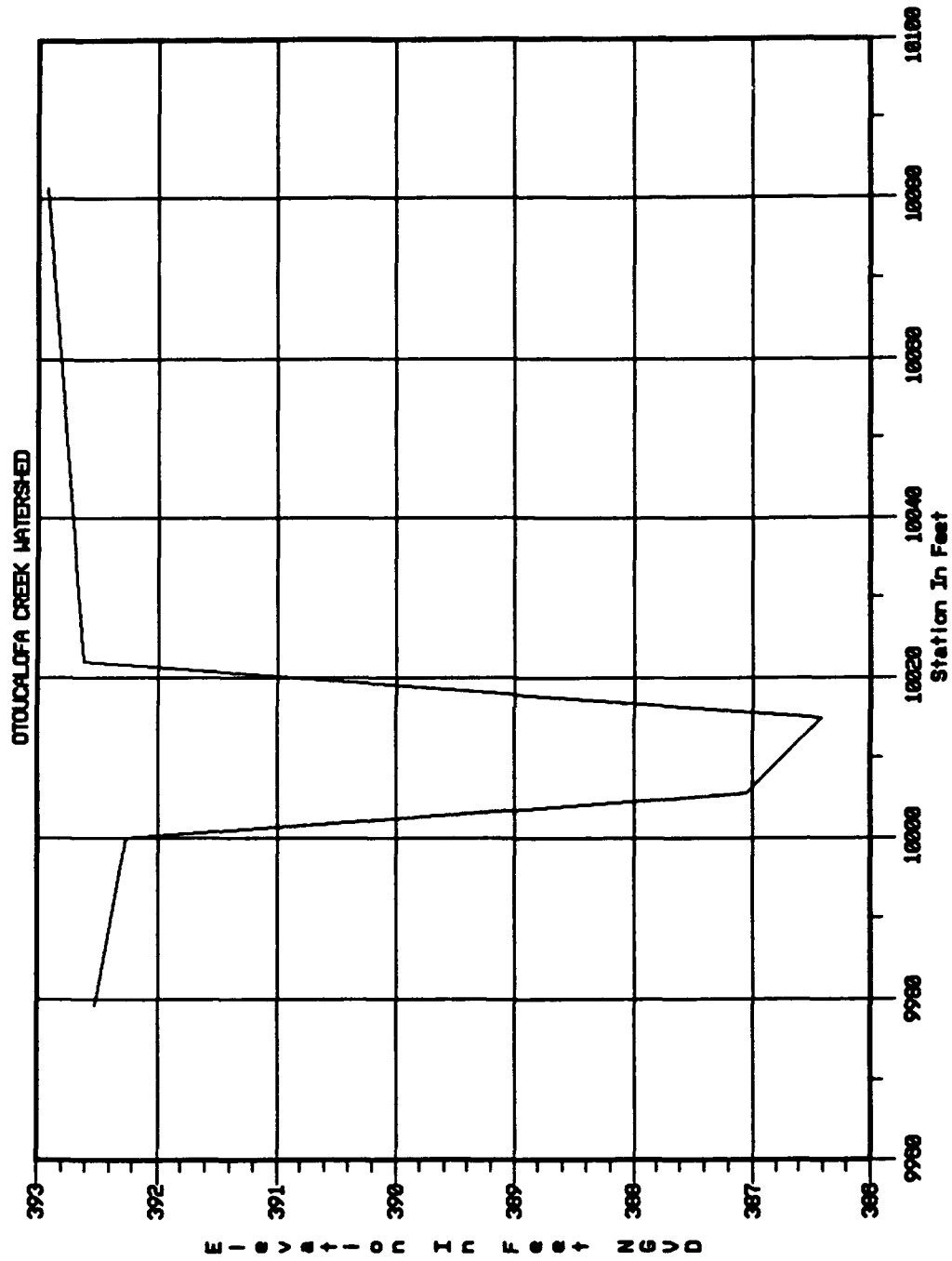


Plate C244



—— DIXIEY CREEK 1965 XSEC 8825

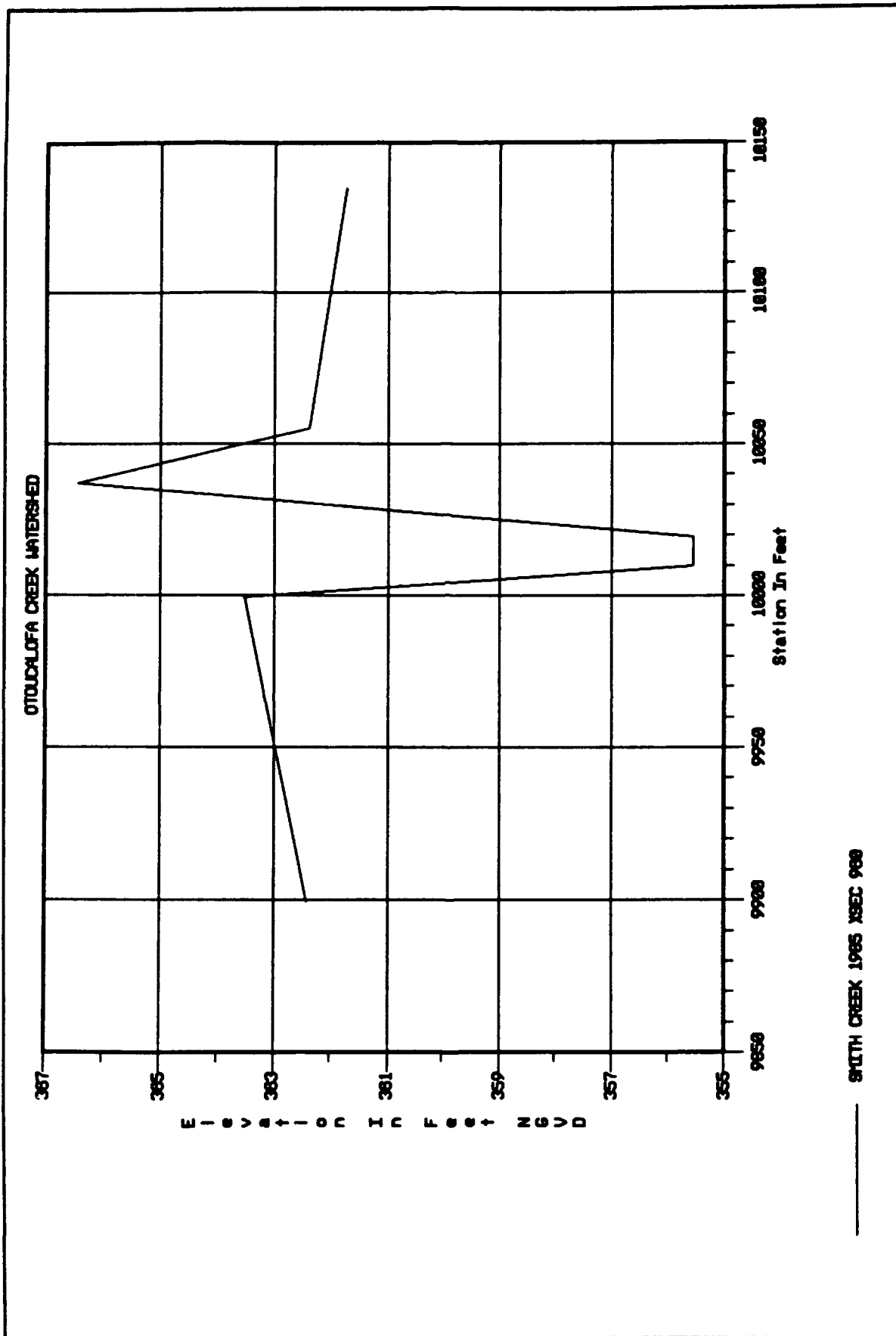
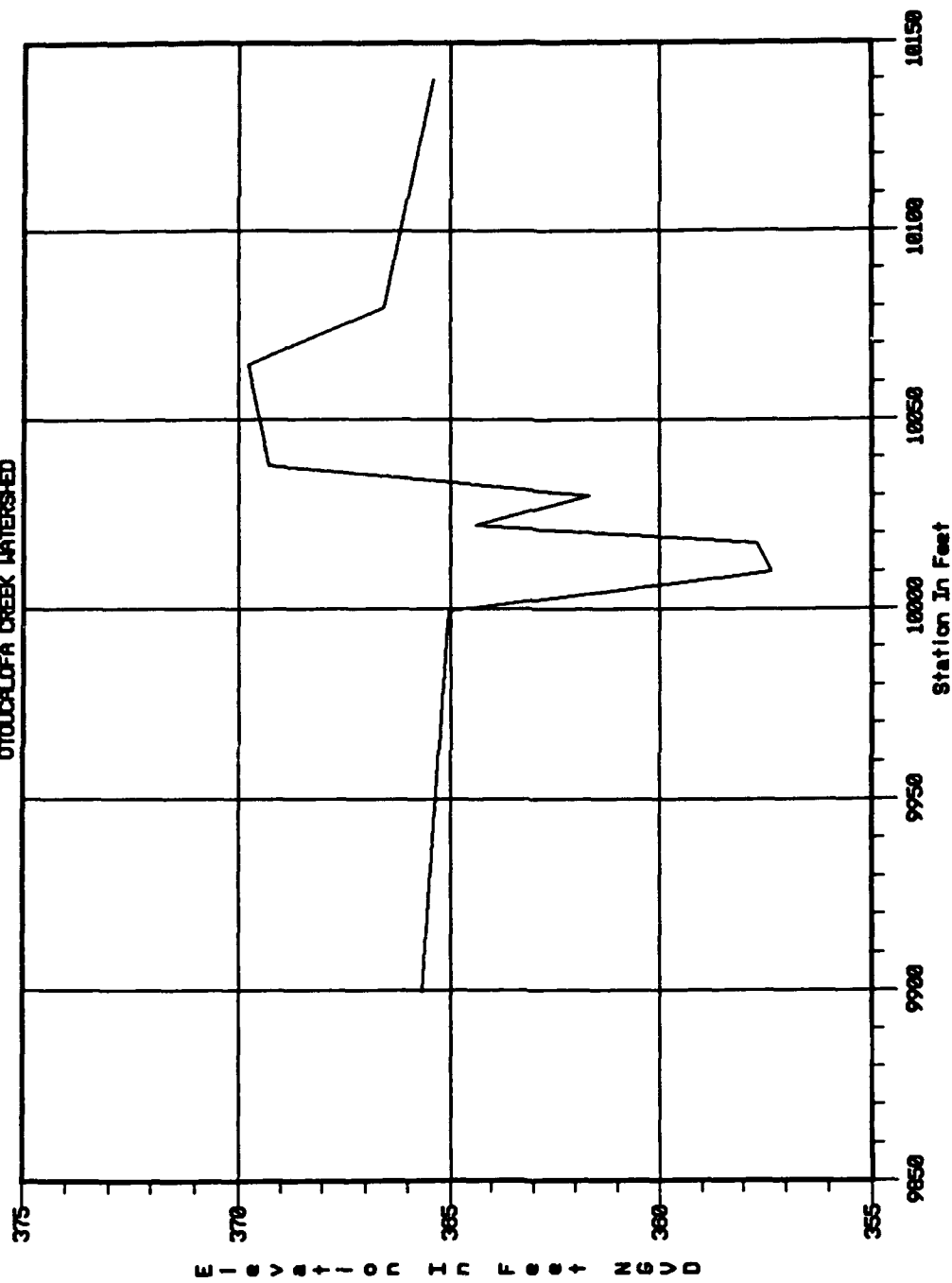


Plate C246

OTOLUALOFA CREEK WATERSHED



SMITH CREEK 1985 XSEC 2085

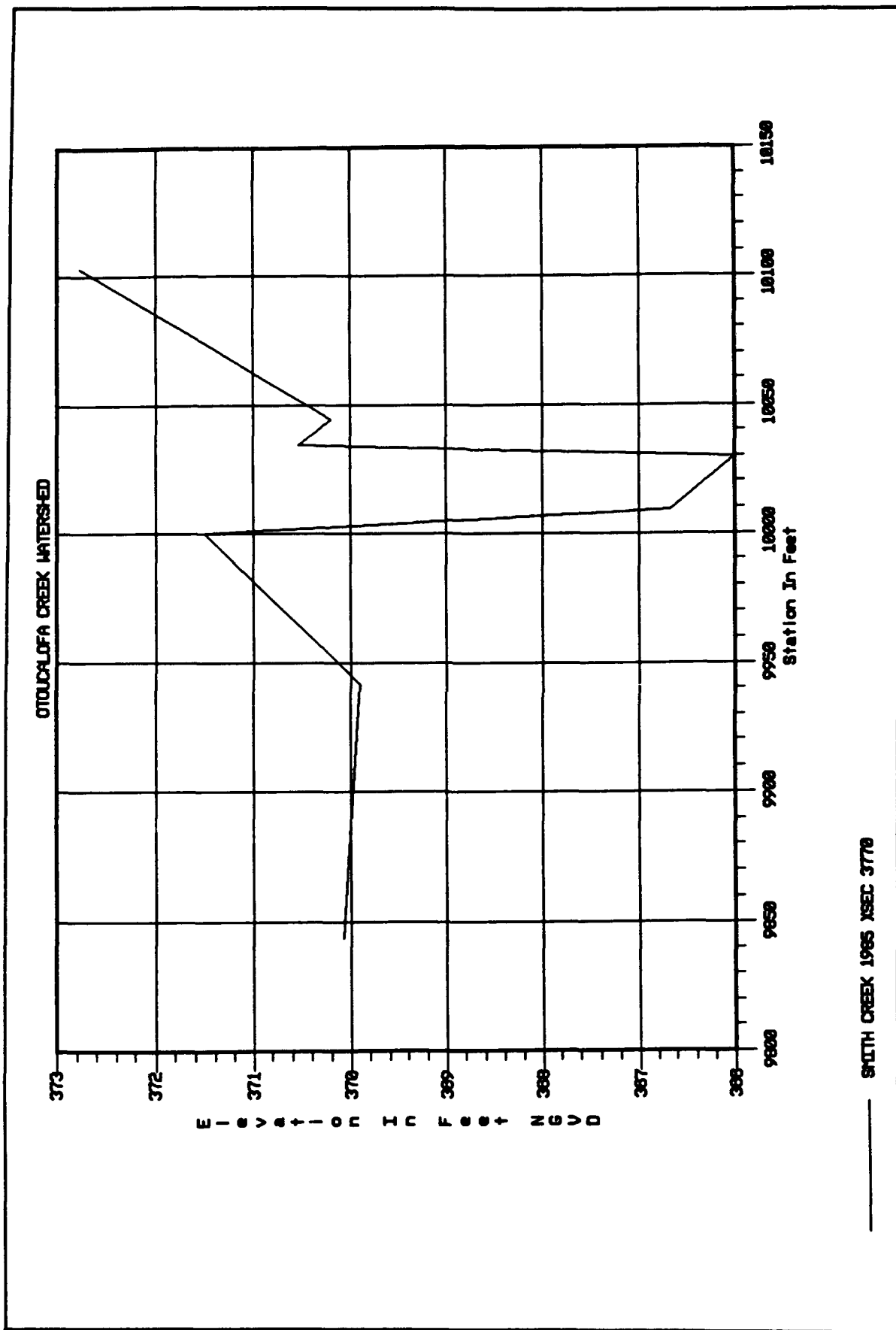
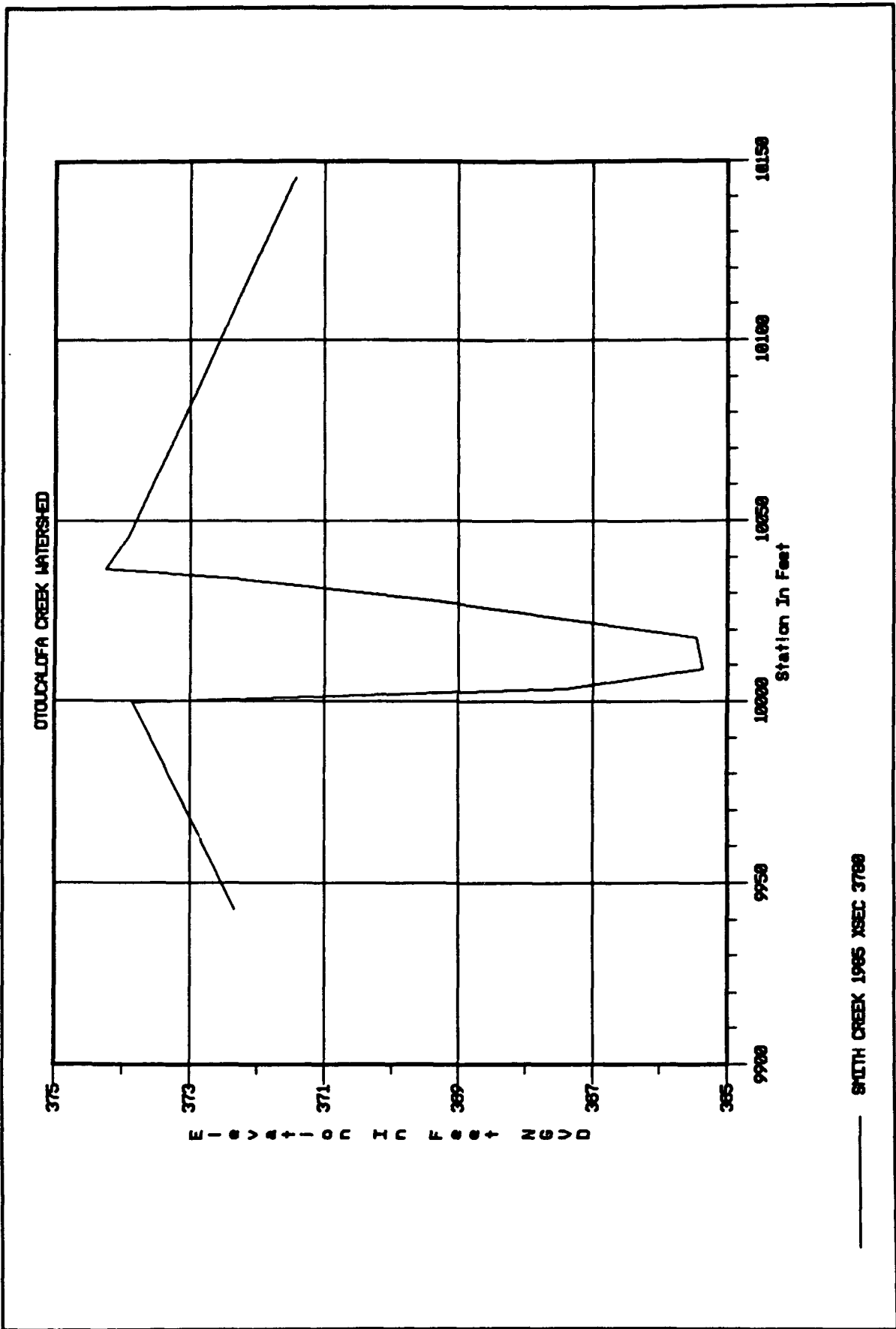


Plate C248



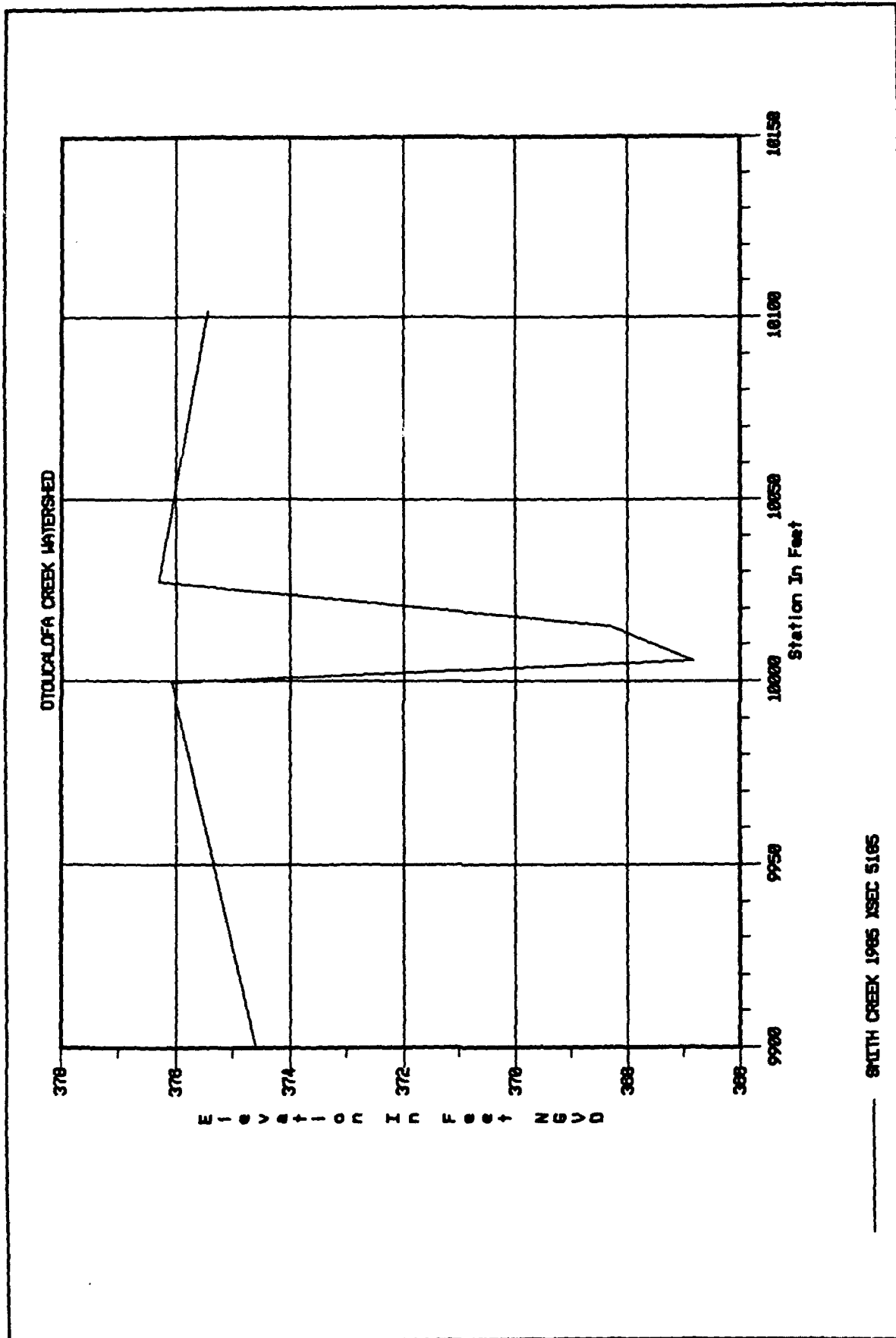
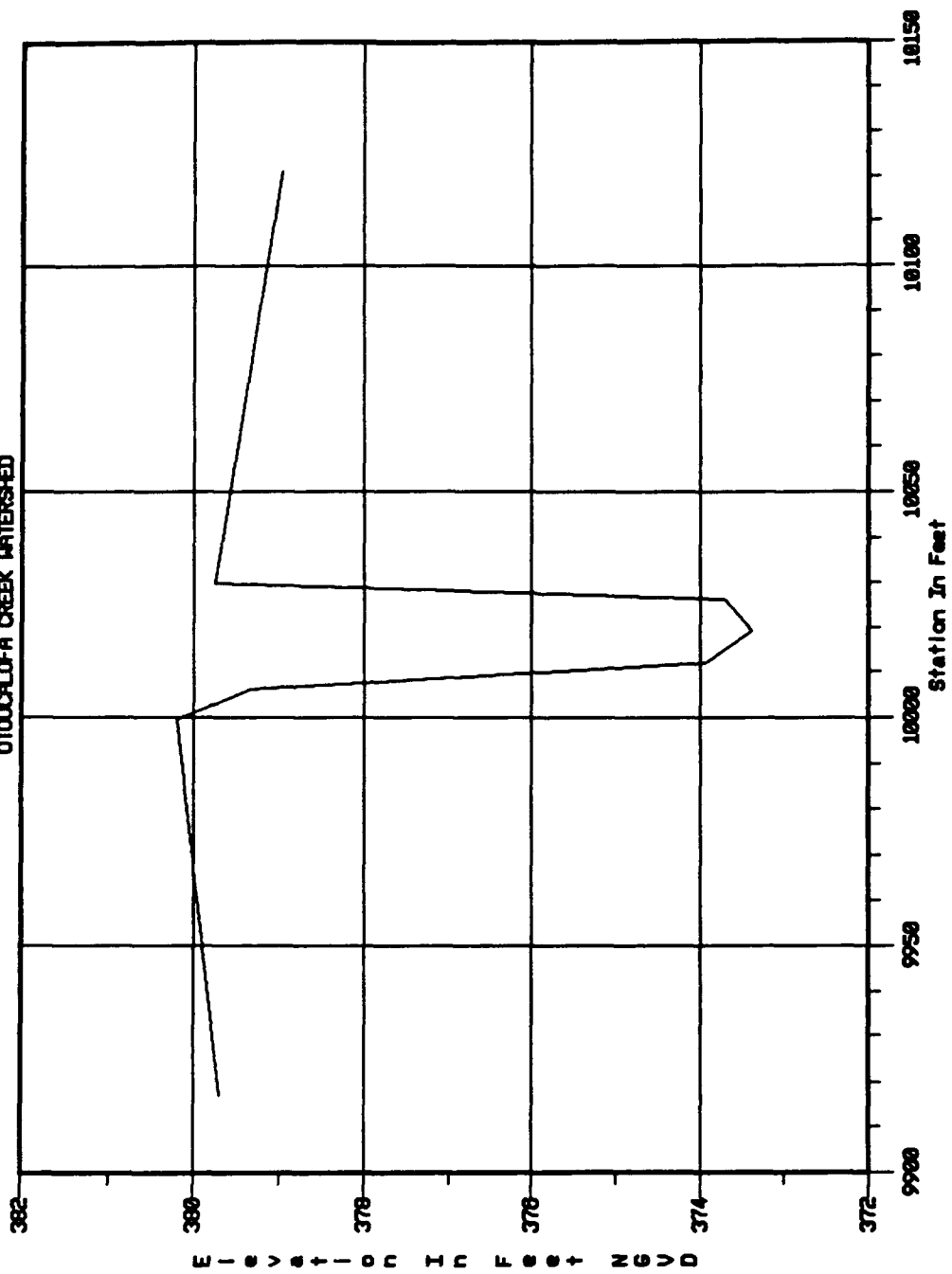


Plate C250

OTOLUCA CREEK WATERSHED



SMITH CREEK 1985 XSEC 8825

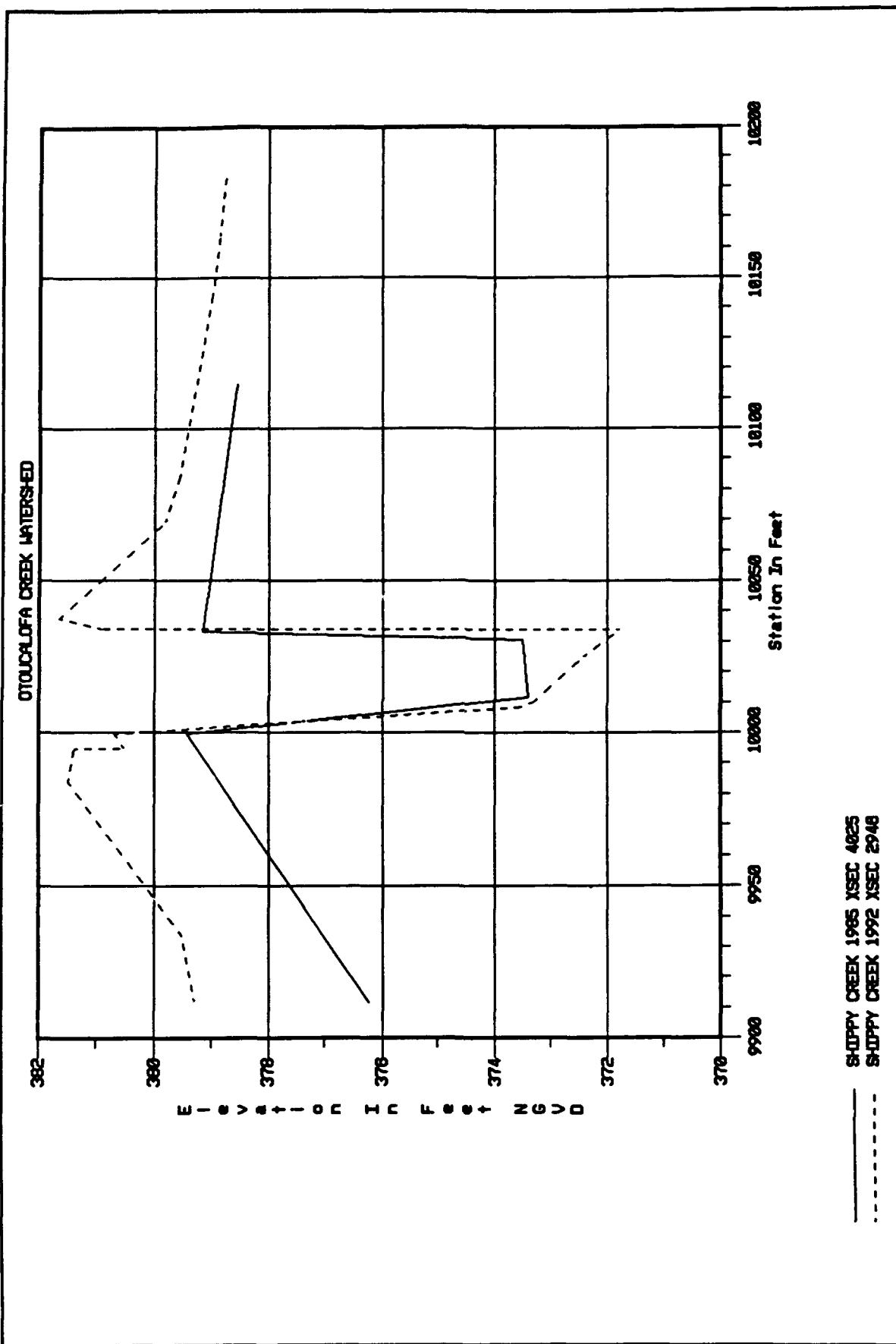
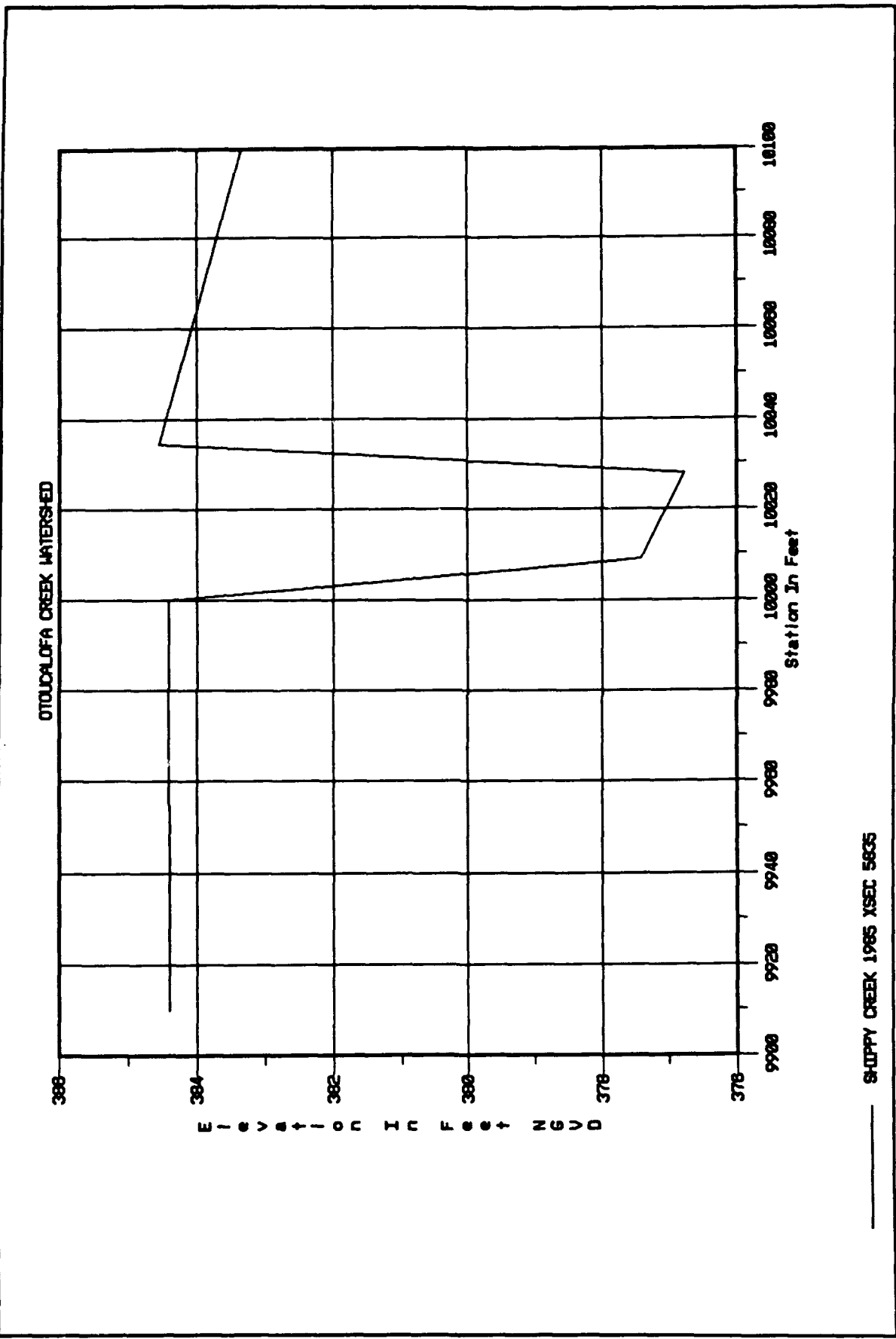


Plate C252



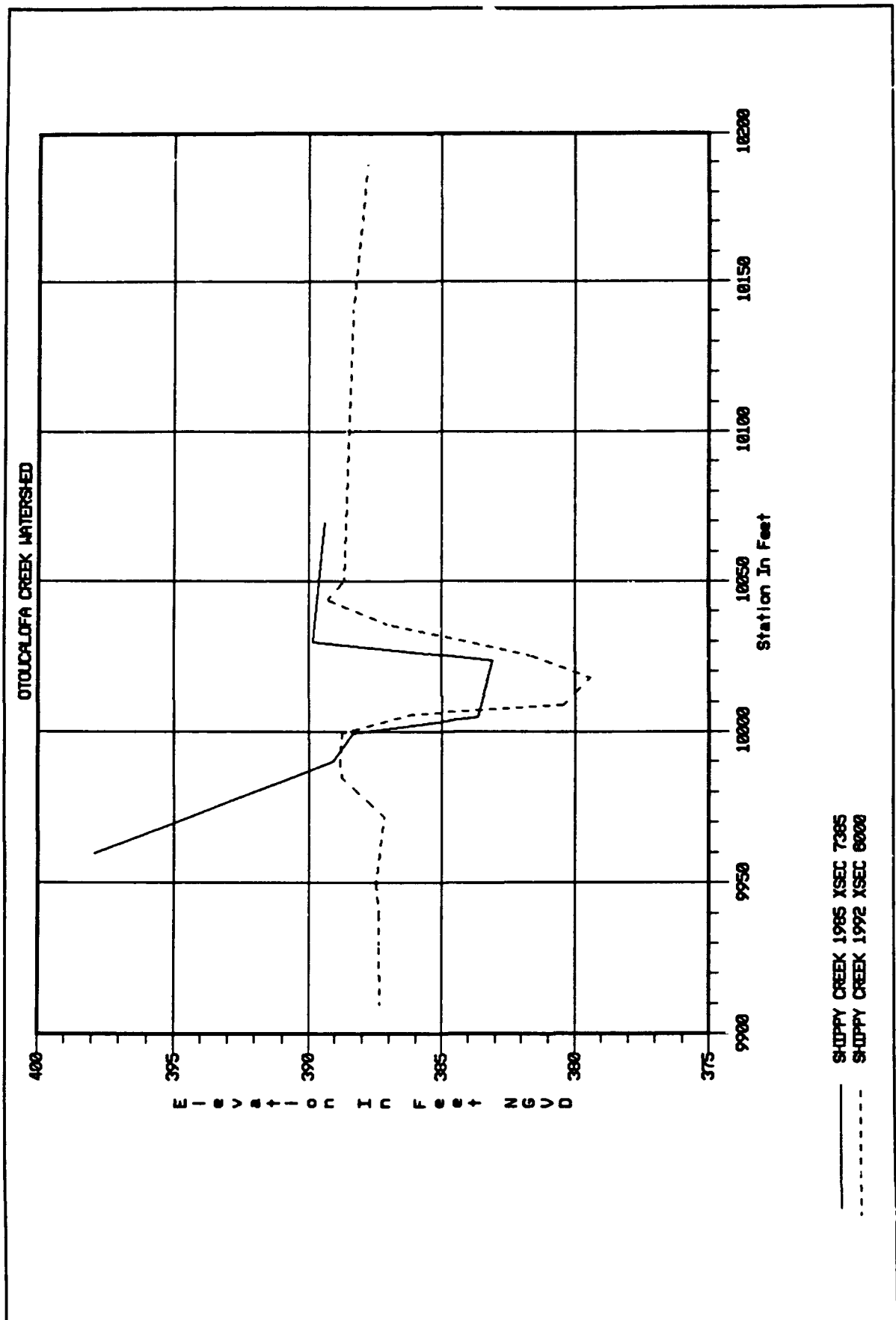
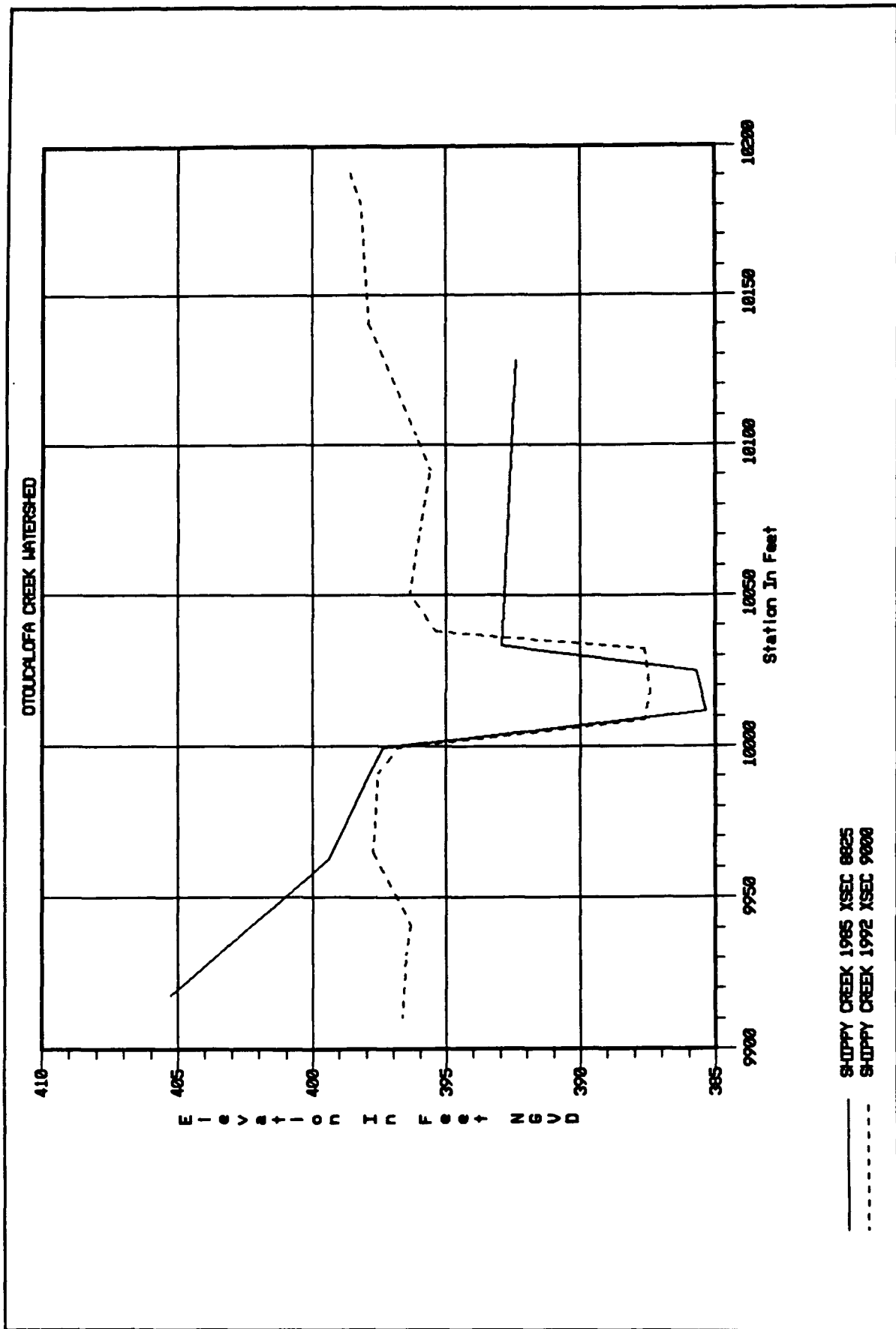
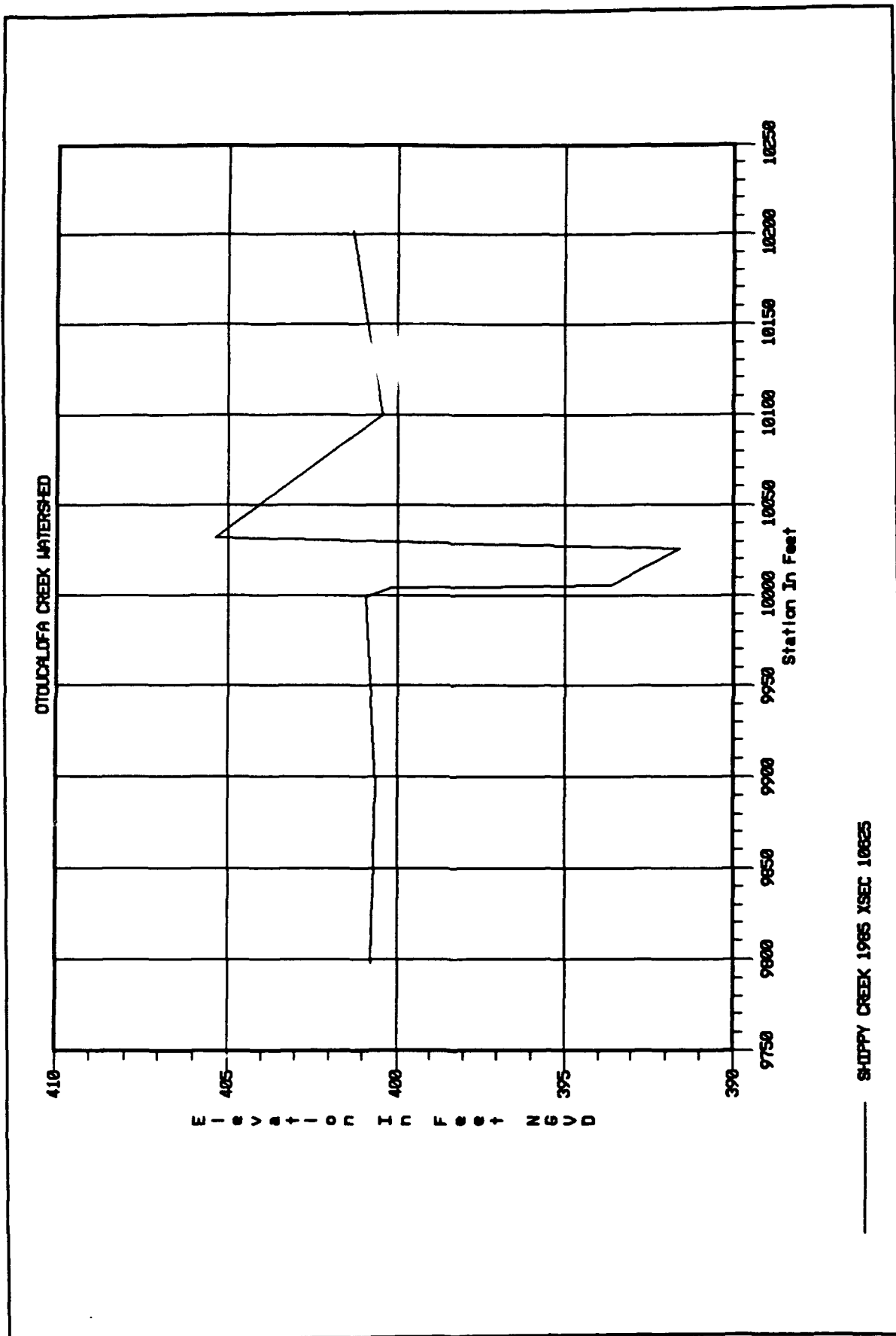
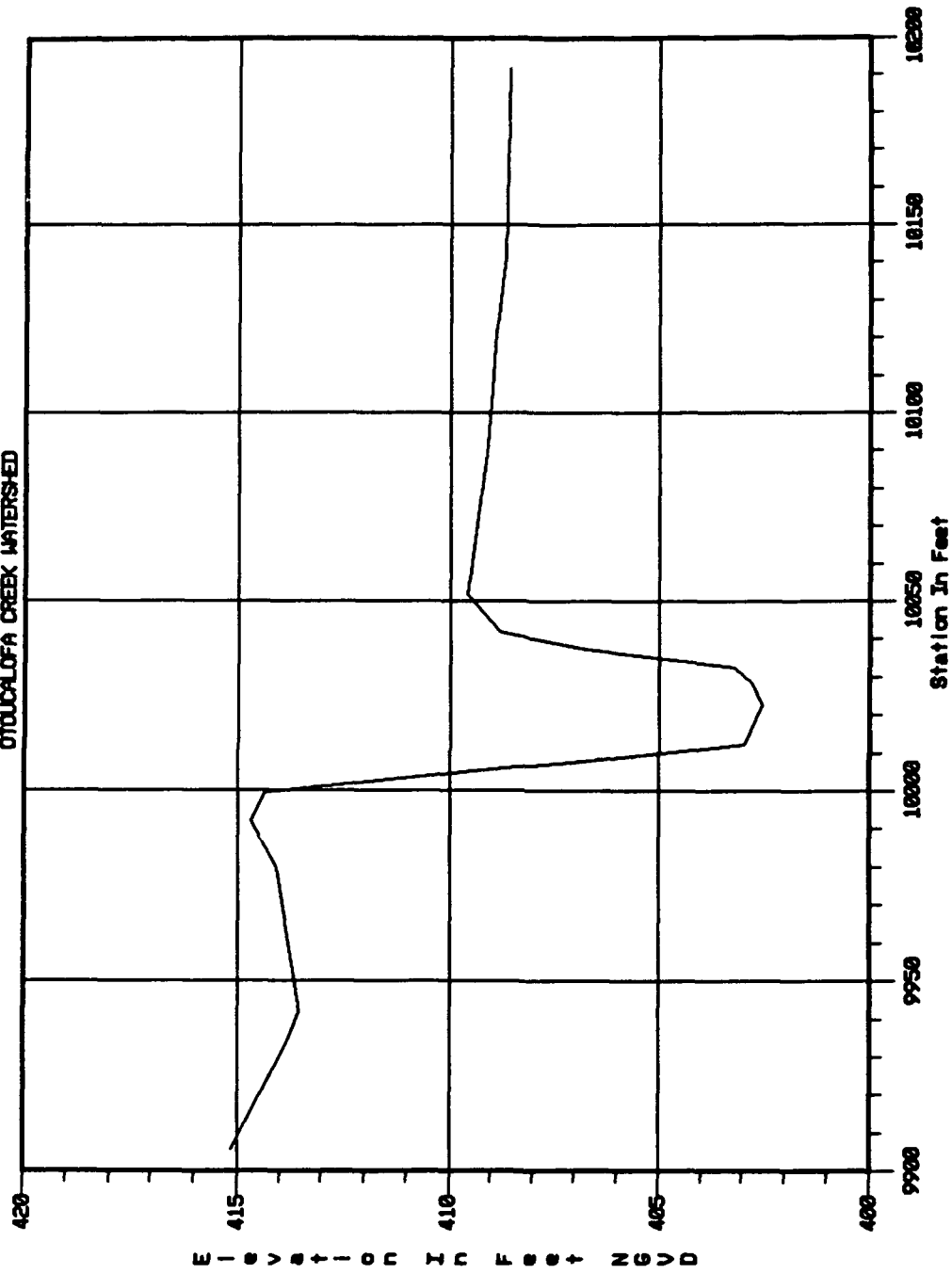


Plate C254





OTOLCALOFA CREEK WATERSHED



SHIPPY CREEK 1992 XSEC 12180

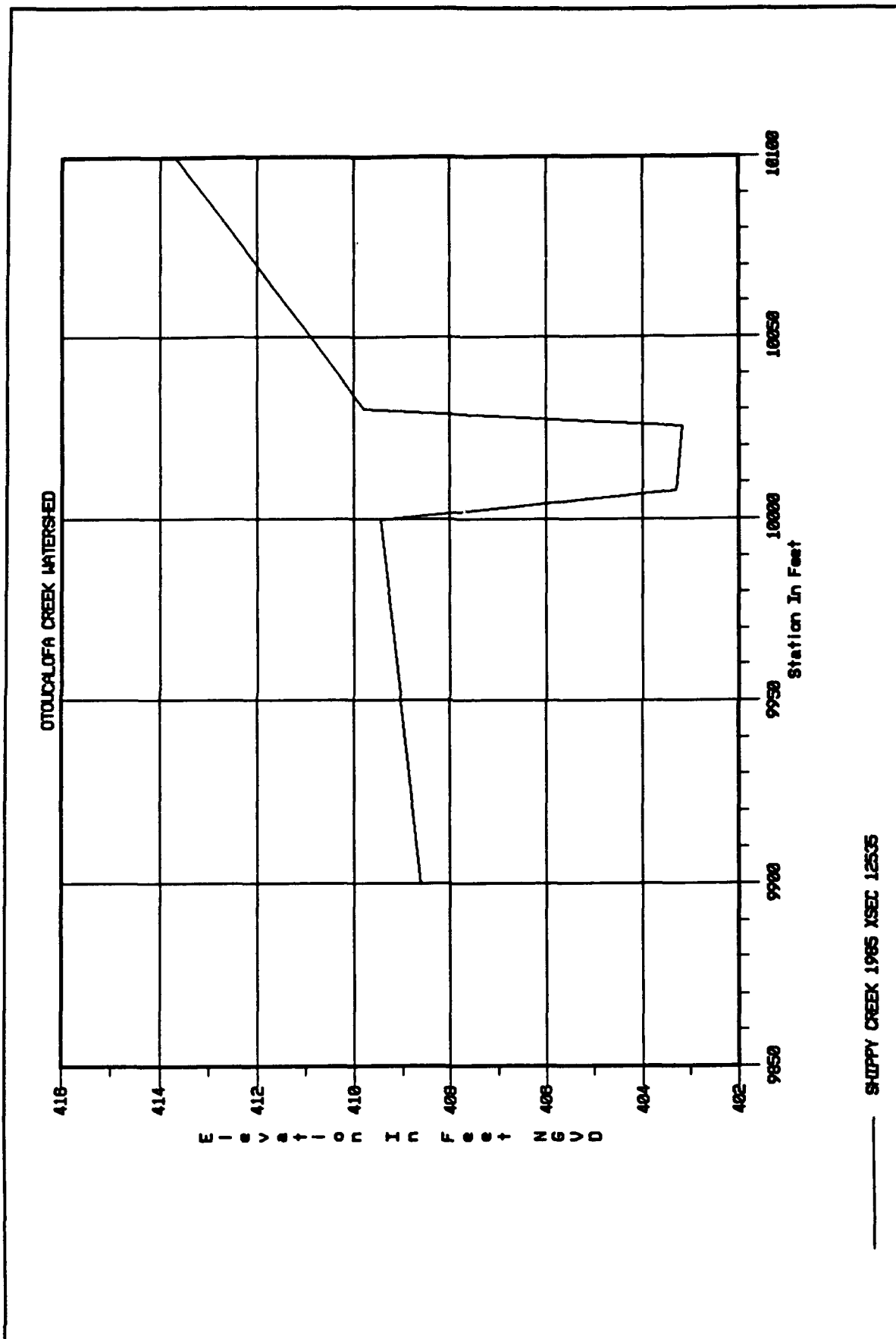
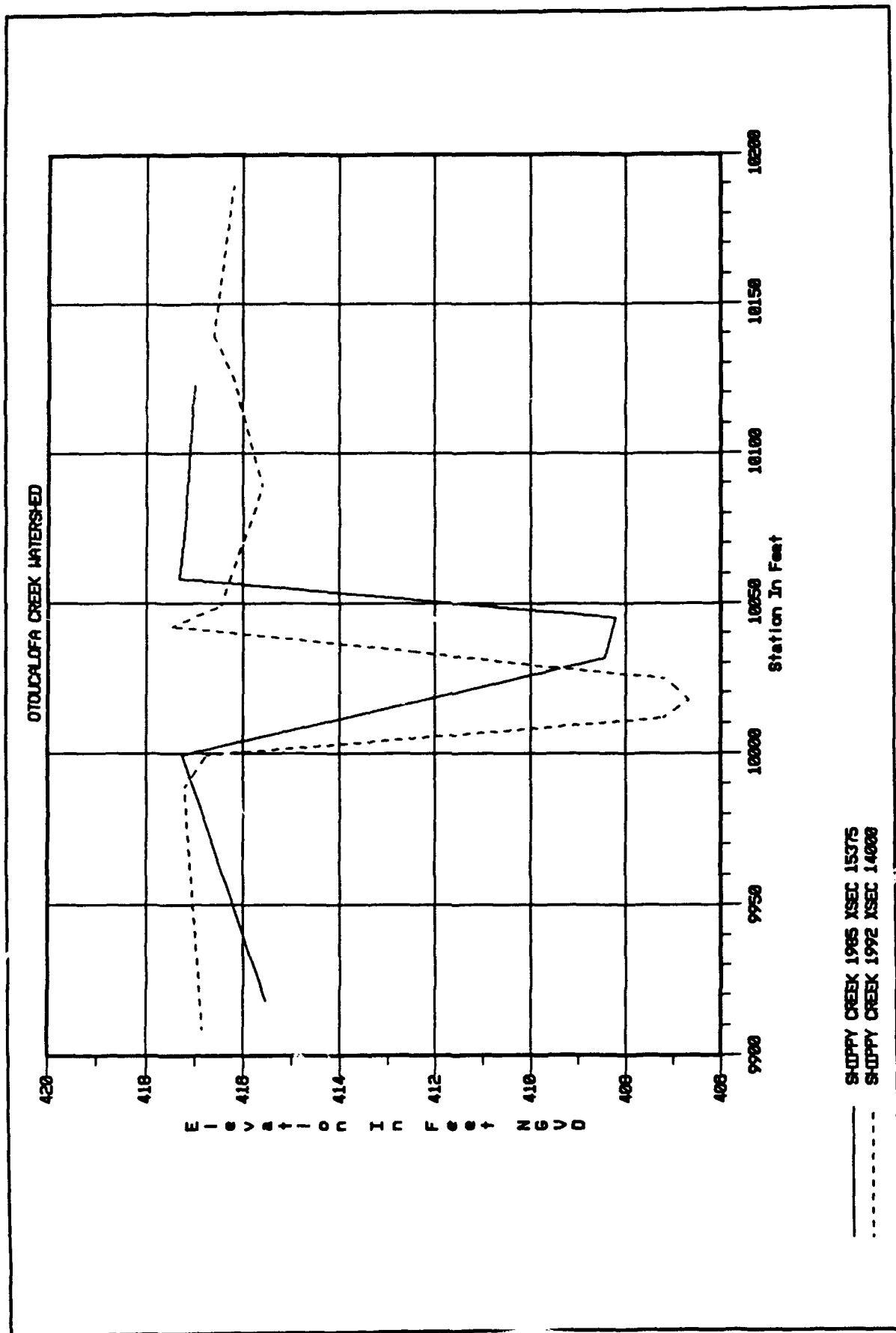


Plate C258



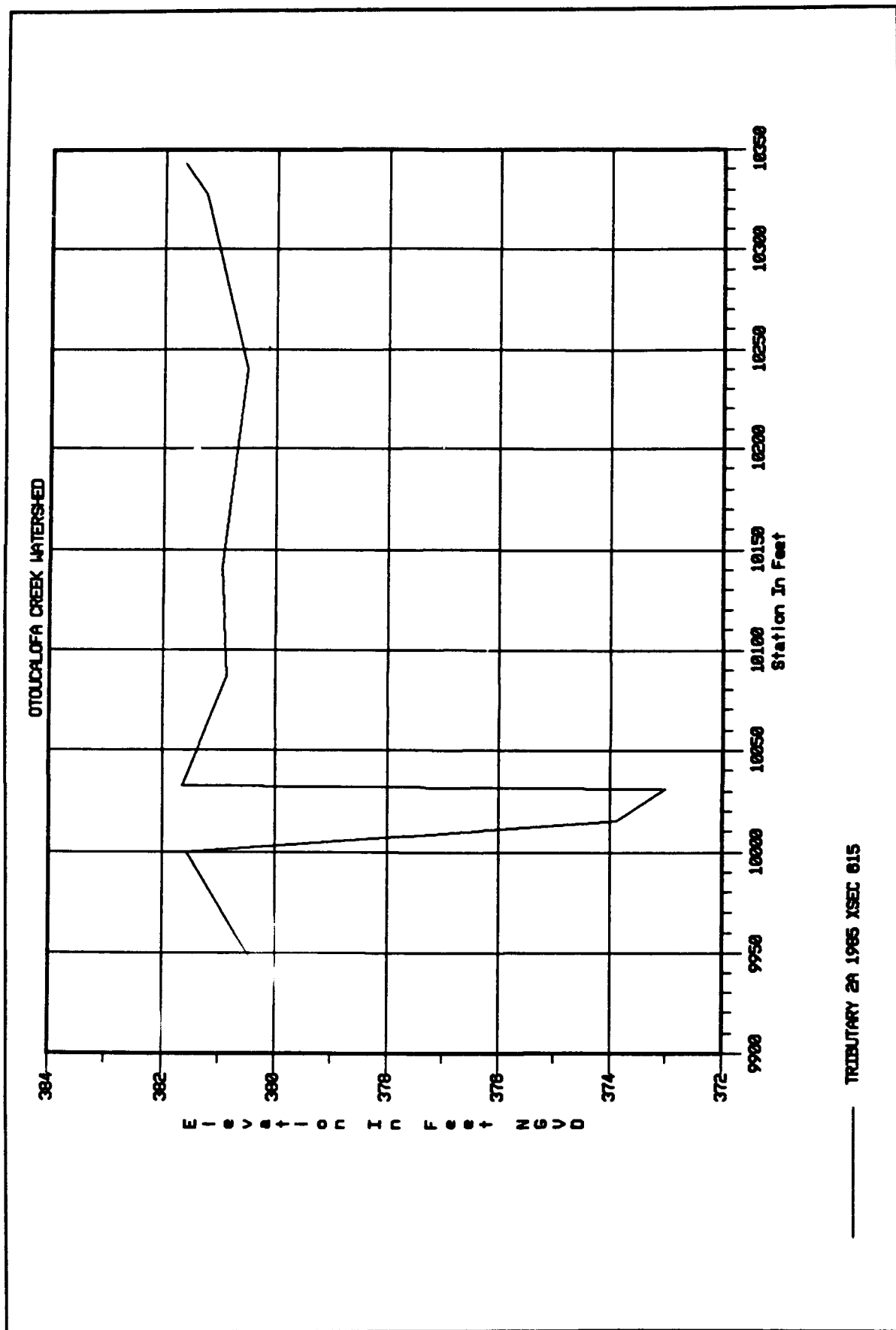
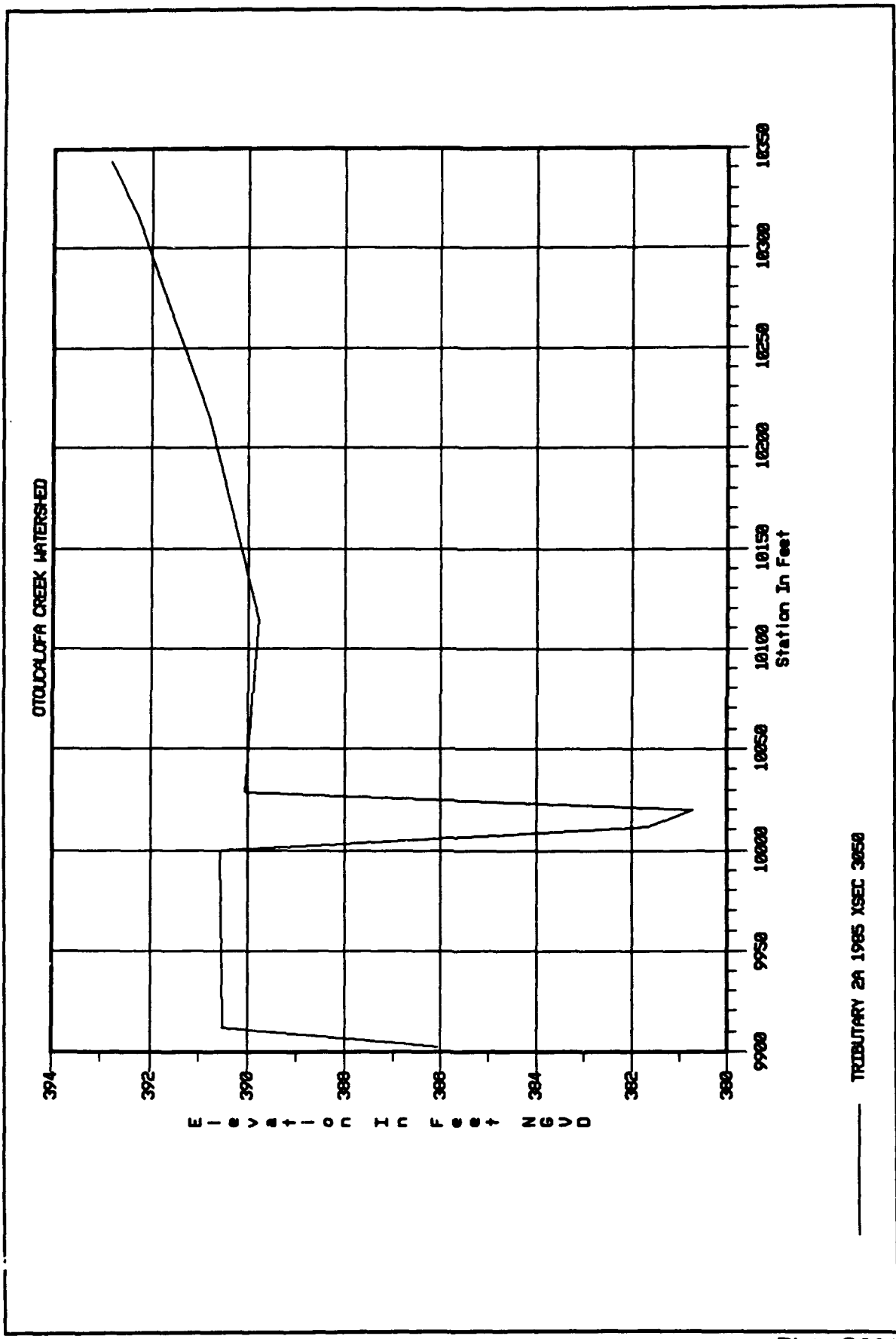


Plate C260



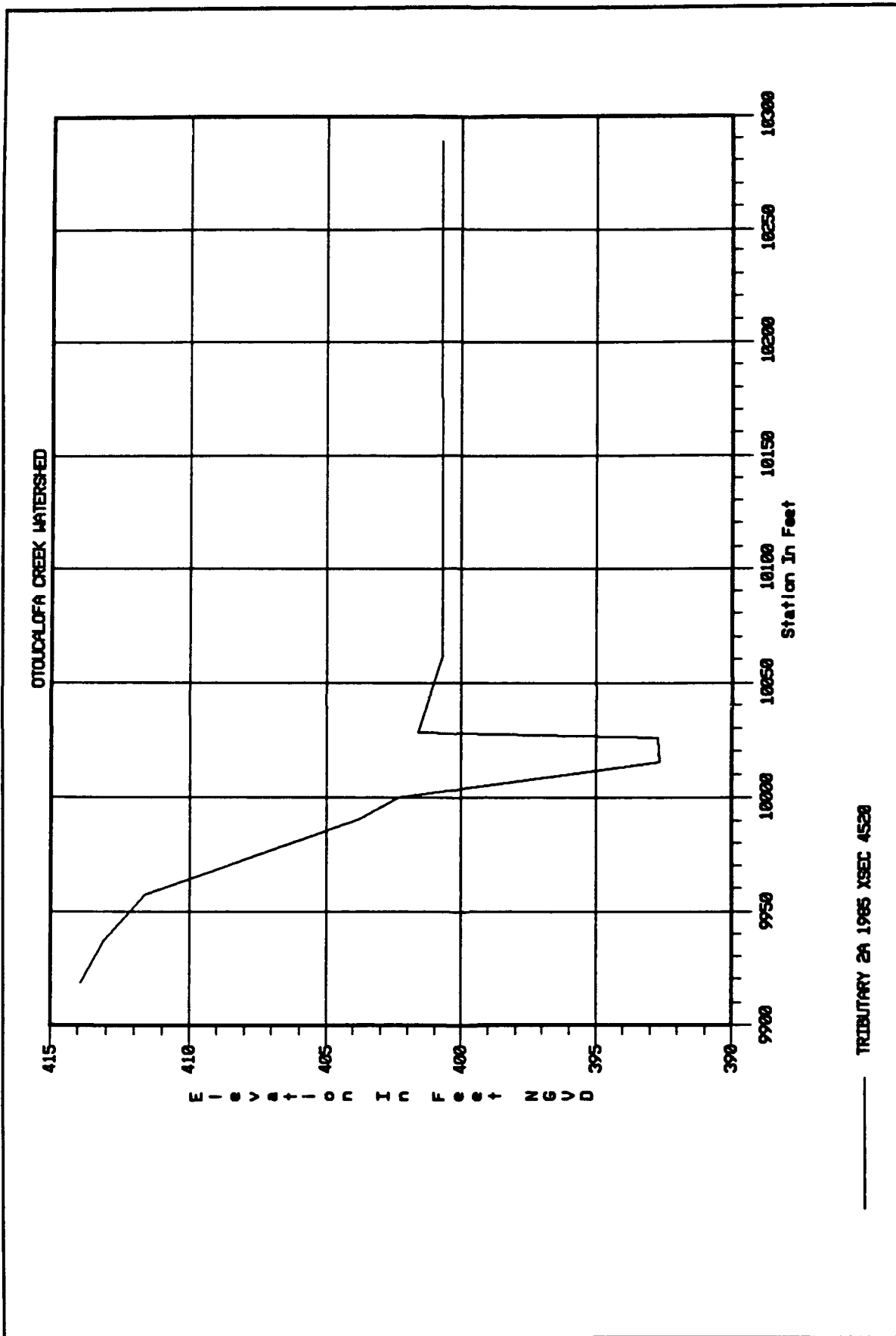
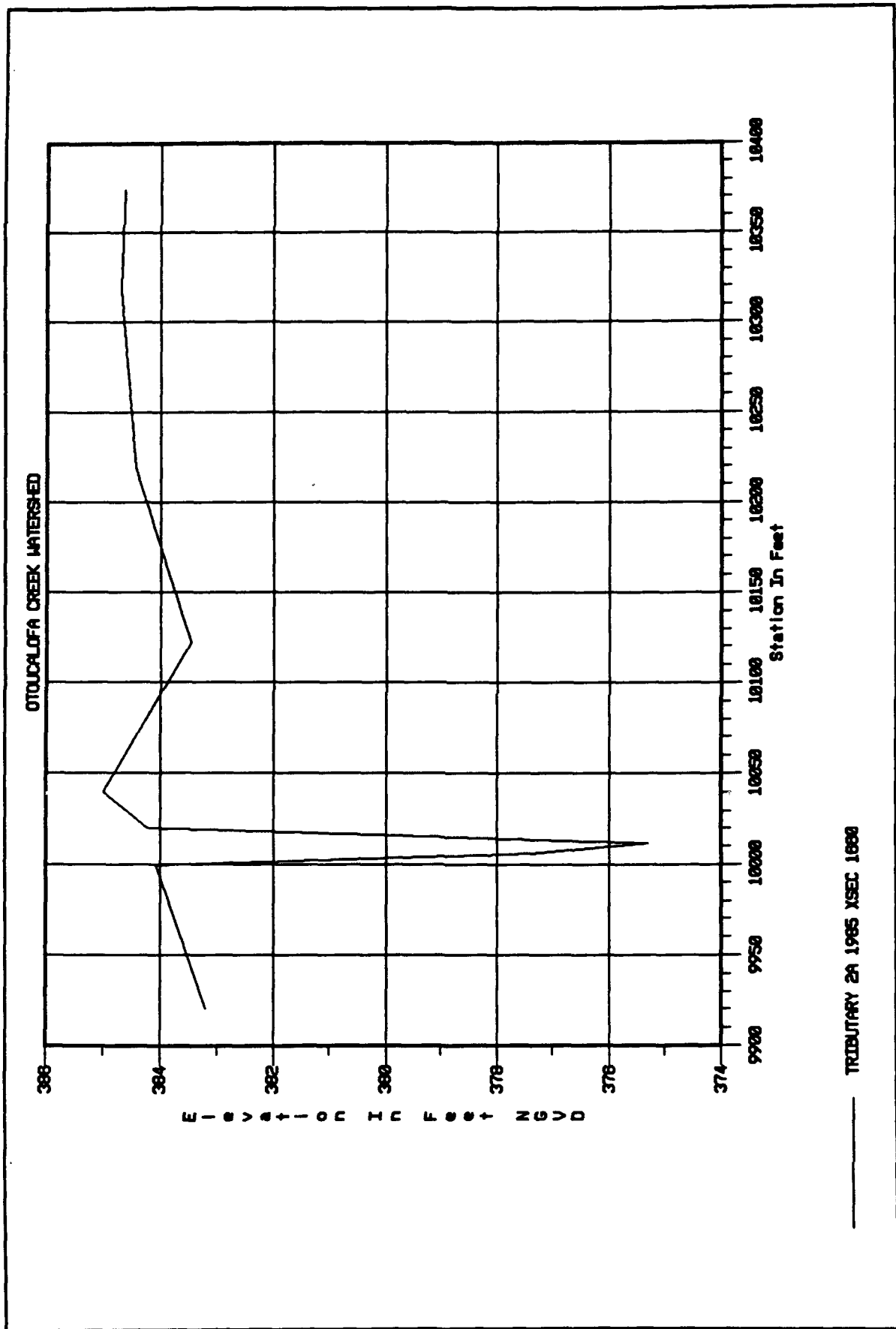
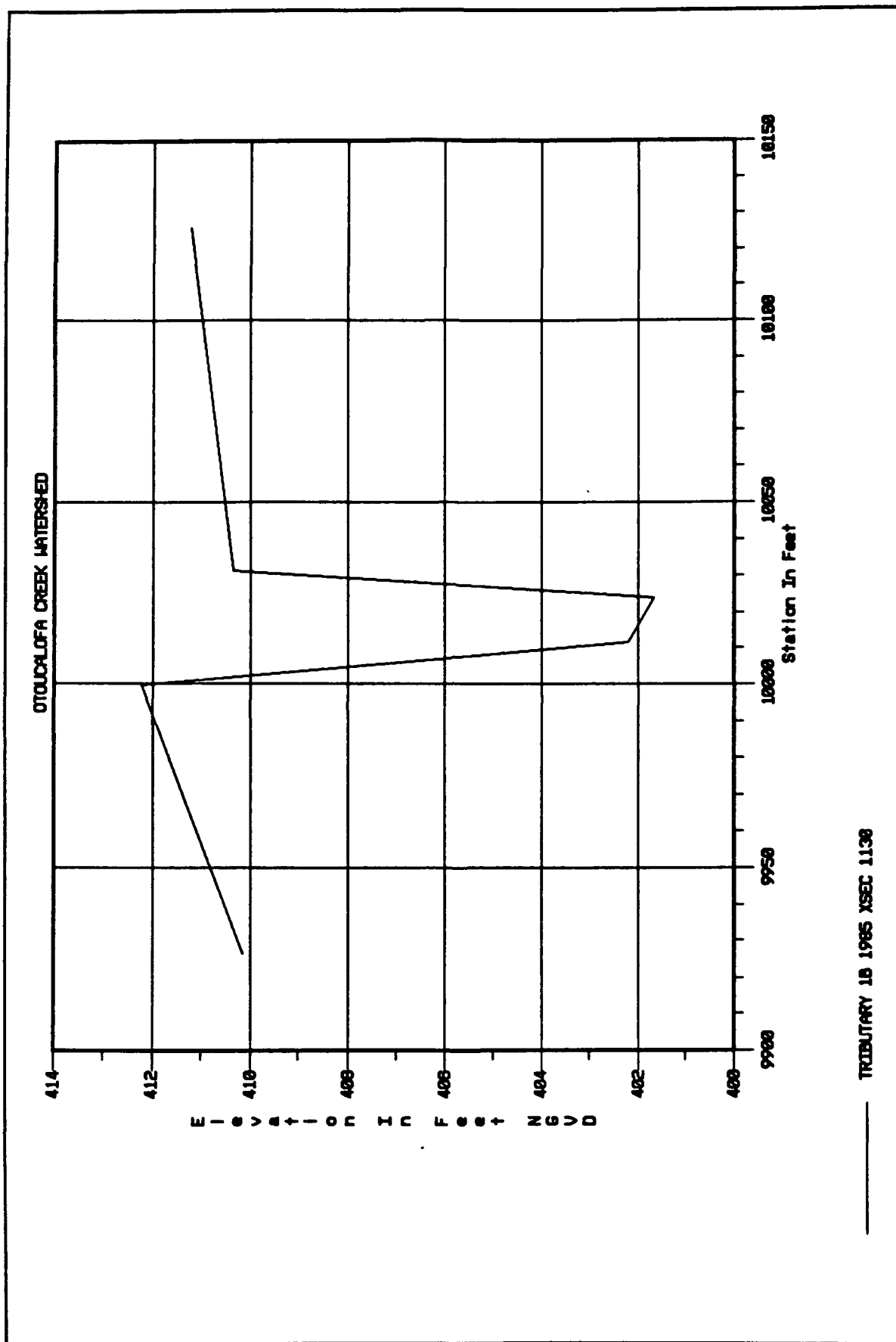
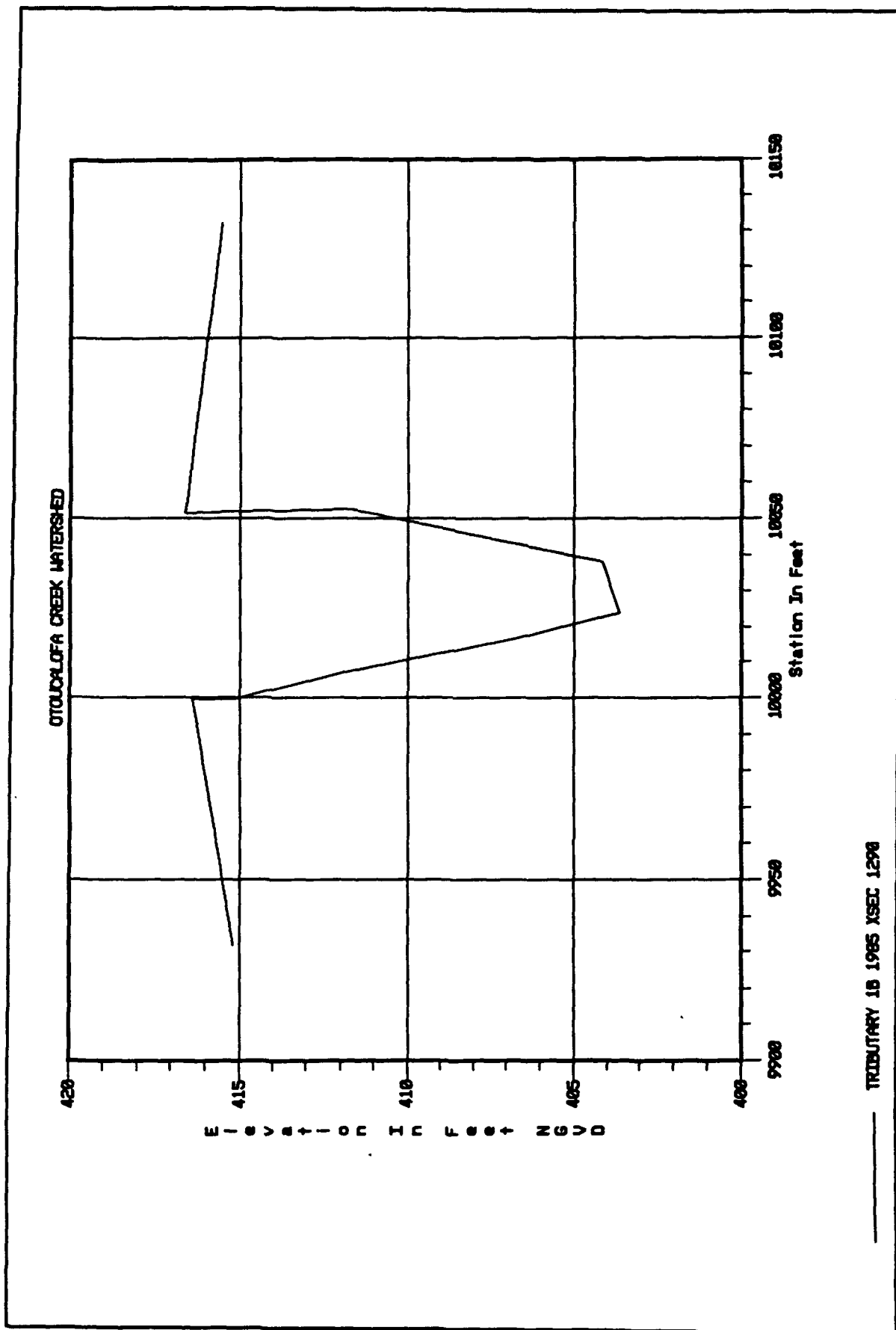


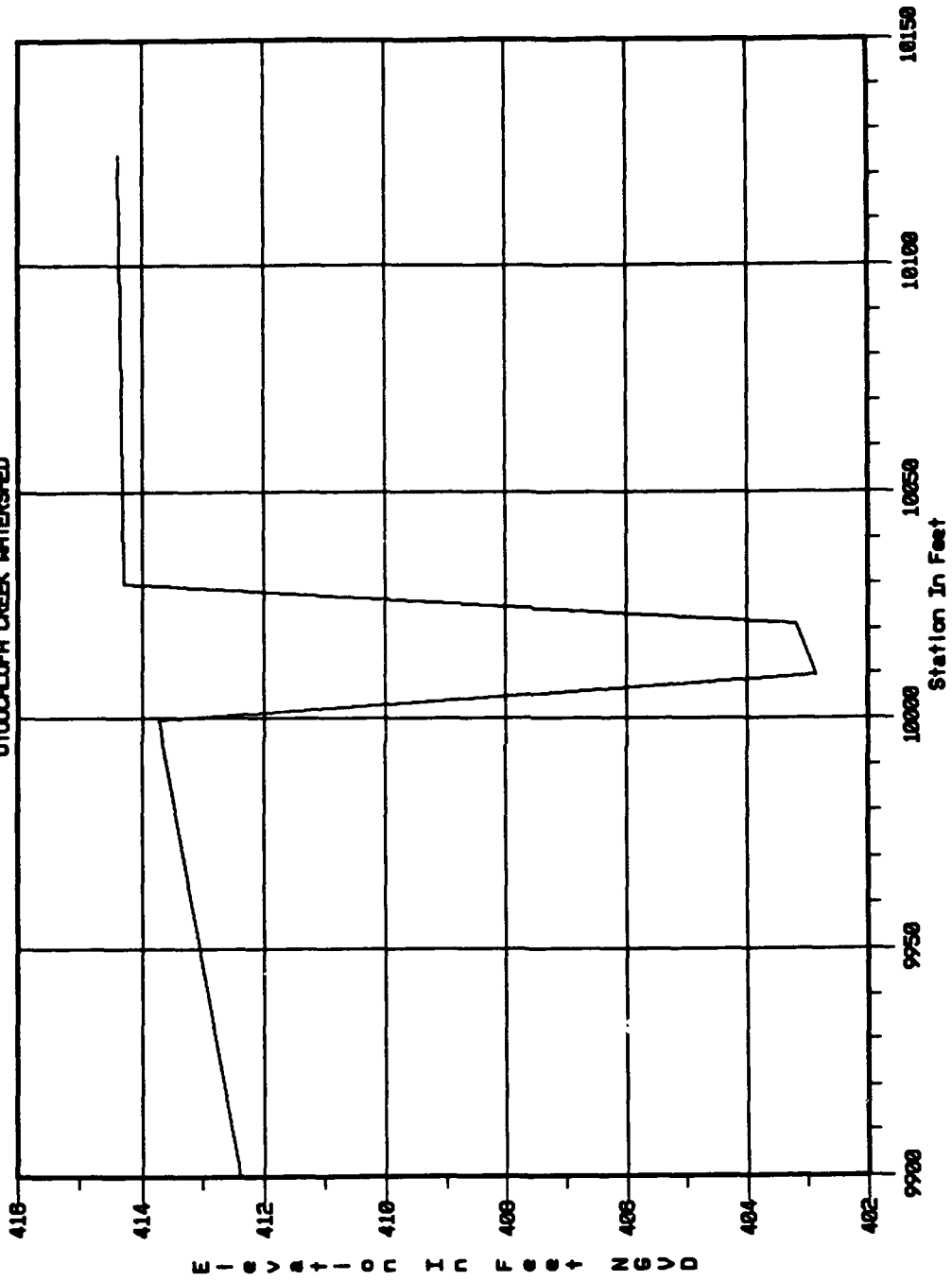
Plate C262



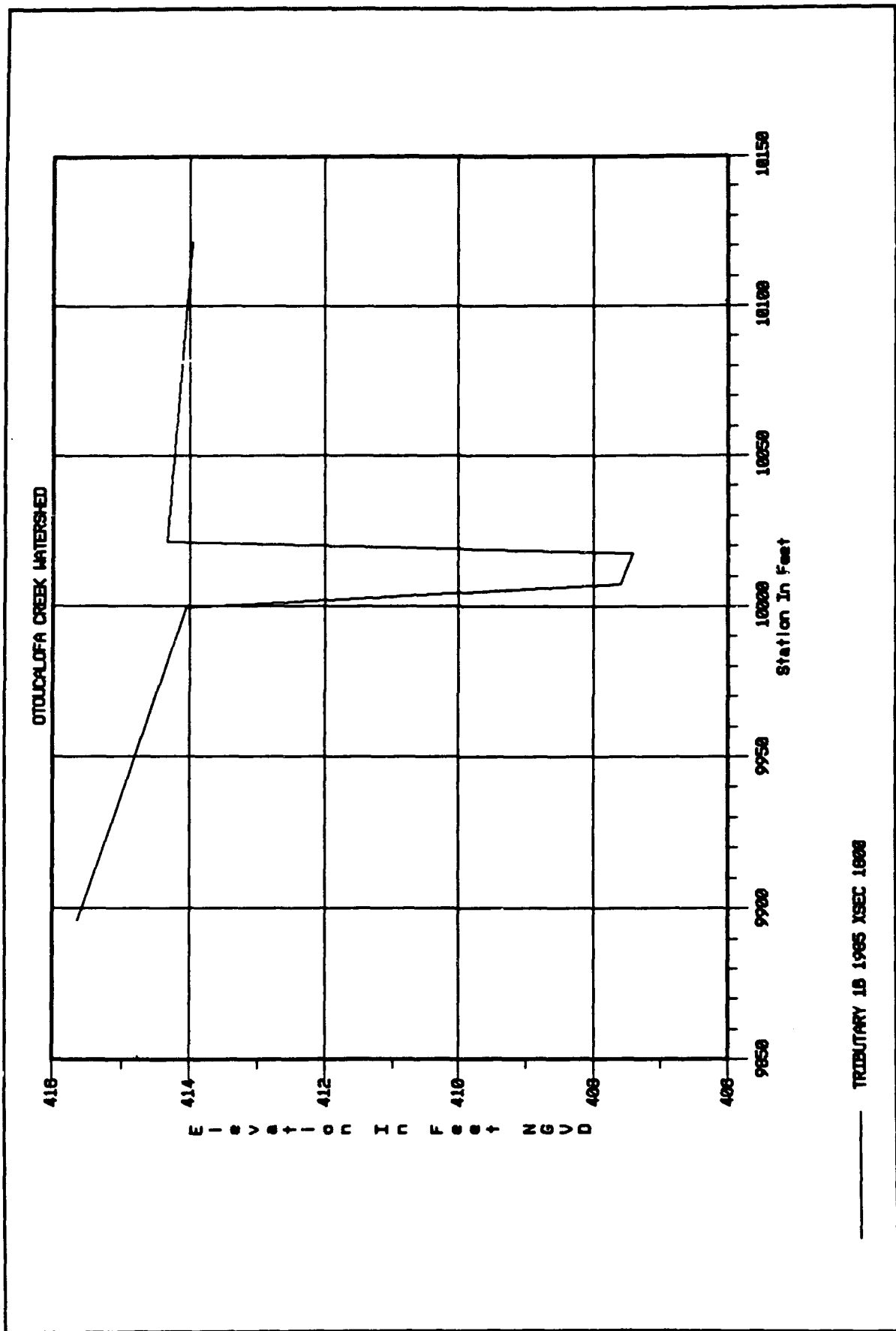


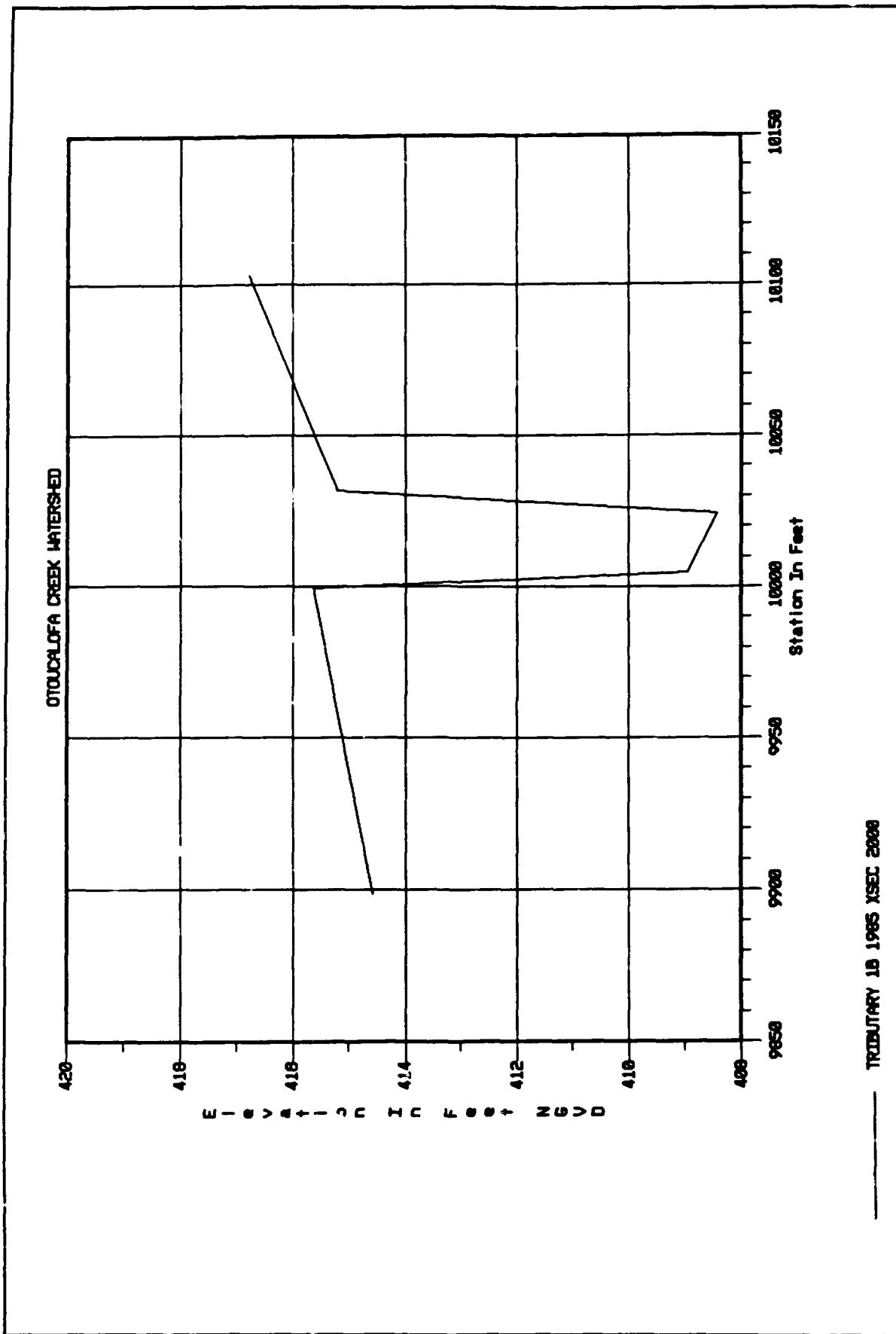


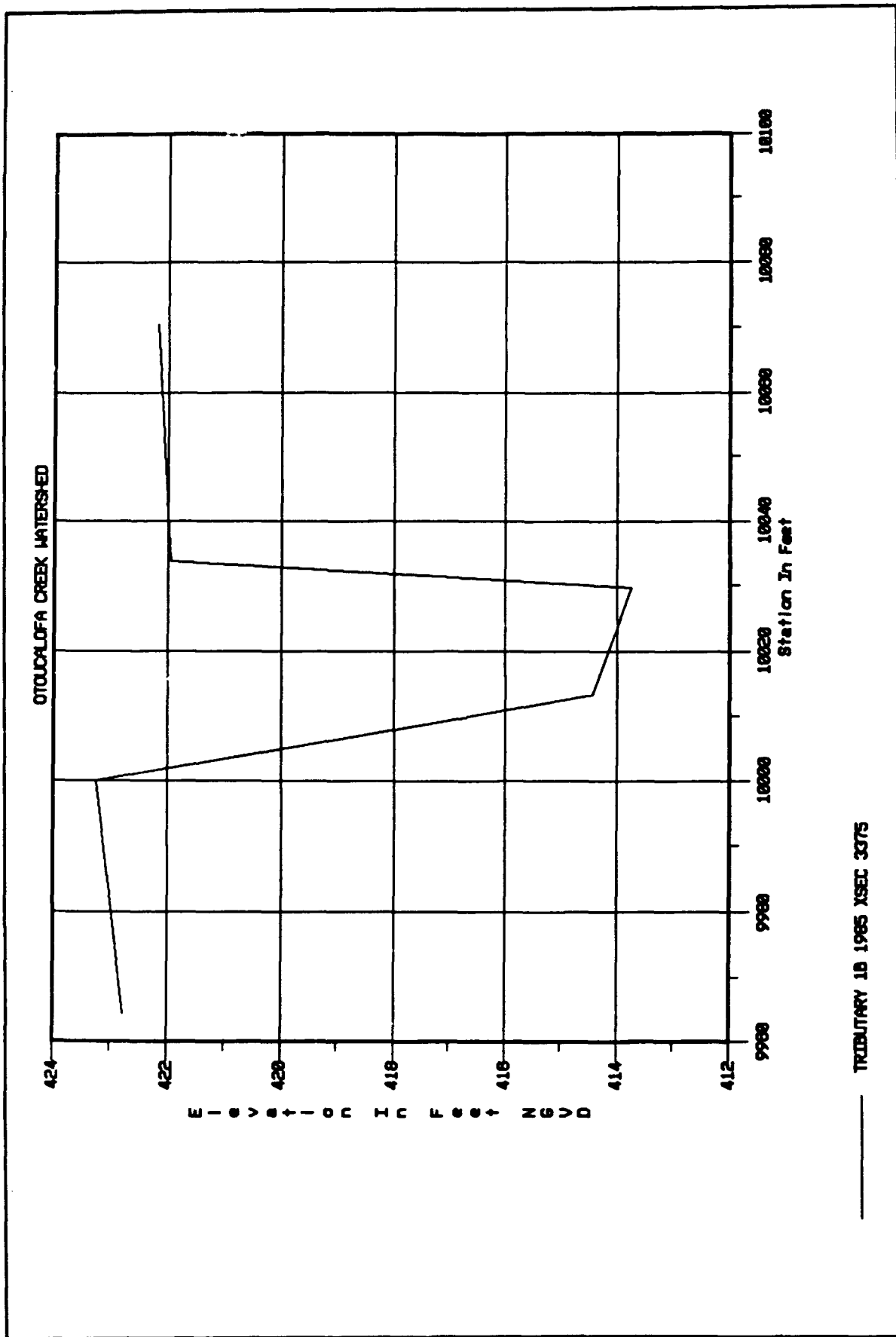
OTTOLOPFA CREEK WATERSHED



TRIBUTARY 1B 1985 XSEC 1475







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