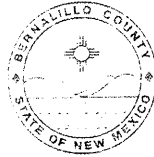


County of Bernalillo

State of New Mexico

BOARD OF COUNTY COMMISSIONERS

TOM RUTHERFORD, CHAIR
DISTRICT 3
BARBARA J. SEWARD, VICE CHAIR
DISTRICT 4
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2400 BROADWAY, S.E.
ALBUQUERQUE, NEW MEXICO 87102
PUBLIC WORKS (505) 848-1500

MARK J. CARRILLO, ASSESSOR
JUDY D. WOODWARD, CLERK
IRA ROBINSON, PROBATE JUDGE
JOE BOWDICH, SHERIFF
ORLANDO VIGIL, TREASURER

November 24, 1999

Shahab Biazar, P.E.
Advanced Engineering and Consulting
10209 Snowflake Ct. NW
Albuquerque, New Mexico 87114

RE: *Drainage Report and Grading and Drainage Plan for Pete Riboni, Canyon De Carnue Grant Fill Area Limits, (L26/D2) (PWDN-990221) Engineer's Stamp Dated 11/8/99.*

Dear Shahab:

The above referenced plan proposes only to place fill material in the northwest corner of the site. Based on the information provided, this plan is approved for release of the Grading permit for this project. Please be sure that the fill area is staked out in the field per this plan.

Prior to future development on this site, or Building Permit release, a site-specific Grading and Drainage plan will be required. At that time, an Easement for the area within the FEMA floodplain must be granted to the County.

For your information, the Tijeras Arroyo has been studied and preliminary flood maps have been issued by FEMA. I have attached information from this study and a copy of a portion of Panel 383 from the Preliminary Flood Insurance Rate Maps. This map identifies the base flood elevations for the Tijeras arroyo in the vicinity of your site. Although these maps have not been adopted, this information may be useful when the future grading plan is prepared.

If you have any question, or if I may be of further assistance to you, please call me at 924-3982, or contact Brad Catanach at the County.

Sincerely,

A handwritten signature in cursive script, appearing to read "Susan Calongne".

Susan M. Calongne, P.E.
City/County Floodplain Administrator

Attachment

C: Brad Catanach, Bernalillo County Public Works Division
File

Table 2. Summary of Discharges

Flooding Source and Location	Drainage Area (Square Miles)	10-Year	Peak Discharges (cfs)	
			50-Year	100-Year
Arroyo de las Calabacillas	98.0	2,700	8,500	12,700
At confluence with the Rio Grande				
Upstream of confluence with	85.1	2,460	7,800	11,900
Black's Arroyo	71.9	2,300	7,200	11,000
At upstream study limit				
Canada del Ojo	76.5	5,100	8,870	10,800
At Interstate Highway 40				
Cedro Canyon Arroyo	18.9	1,830	3,730	5,420
At confluence with Tijeras Arroyo				
Frost Arroyo	24.8	3,520	6,480	8,740
At downstream study limit	10.5	1,710	2,910	3,790
Upstream of unnamed tributary				
Rio Grande	14,650	3,300	10,200	15,200
At downstream study limit	--1	7,100	14,500	20,000
Upstream of La Orilla Road	14,100	7,100	14,700	21,700
Upstream of North Diversion Channel				
Rio Puerco	2,490	15,400	26,900	32,600
At Interstate Highway 40				
San Pedro Creek	7.24	1,040	2,140	2,990
Within detailed study limit				
Tijeras Arroyo at Tijeras	67.1	5,080	9,970	14,060
At downstream study limit				
Upstream of confluence with Cedro	37.5	4,120	7,890	11,100
Canyon Arroyo	20.6	2,670	5,210	7,320
Upstream of confluence with Arroyo				
San Antonio				
Tijeras Arroyo	114	4,340	9,150	14,700
Upstream of confluence with South	78.0	6,285	14,300	18,065
Diversion Channel				
At Four Hills Road				

¹Data not available

BERNALILLO COUNTY



PWD SUBMITTAL

Use for all PWD applications EXCEPT Street Excavation

☒ NEW SUBMITTAL

☐ RESUBMITTAL

☐ FINAL SIGNOFF

TODAY'S DATE: 11/08/99

CASE NO: **PWDN 990221**

OWNER

OWNER	PHONE
MAILING	
ADDRESS	CITY ZIP

AGENT

AGENT / CONTRACTOR	Advanced Engineering and Consulting, LLC		PHONE	(505) 899-5570	
MAILING ADDRESS	10205 Snowflake Ct., NW		CITY	Albuquerque	ZIP NM 87114
STATE	EXP				
LICENSE NO.	DATE	VOLUME	CLASS		
ARCHITECT/ENGINEER	LICENSE NO.	ZIP	PHONE		

SITE INFORMATION

SITE ADDRESS / DIRECTIONS	ZONE ATLAS NO.: L-26-Z
LEGAL DESCRIPTION Lands Pete Riboni, Canon De Carnue Grant	
EXISTING BUILDING(S) AND USE: None	PROPOSED BUILDING(S): None
UPC #	LOT SIZE: 4.468 Acre
1-026-056-164-382-2-01-12	

TYPE OF SUBMITTAL

- | | |
|---|--|
| ☐ REPLAT | ☐ TRAFFIC IMPACT ANALYSIS / TRAFFIC STUDY |
| ☐ MINOR SUBDIVISION | ☐ INFRASTRUCTURE LIST / DESIGN REVIEW |
| ☐ CONSTRUCTION DRAWINGS | ☐ SPECIAL USE PERMIT |
| ☒ GRADING & DRAINAGE PLAN | ☐ BARRICADING PERMIT |
| ☐ AS-CONSTRUCTED GRADING & DRAINAGE PLAN | ☐ BUILDING PERMIT |
| ☐ VARIANCE REQUEST | ☐ INSPECTION |
| ☐ LAND DIVISION | ☒ DRAINAGE REPORT |

The issuance of a permit or a review or approval of plan specifications, computations, and shop drawings, shall not be interpreted to be a permit for, or an approval of any variance or violation of any of the provisions of any COUNTY or STATE codes, ordinances, standards, or policies. Nor shall such issuance of a permit or approval of plans, specifications, computations, and shop drawings prevent any authorized COUNTY representative or COUNTY inspector from thereafter requiring the correction of errors in said plans, specifications, computations, or shop drawings or from stopping construction operations which are being carried on thereunder when in violation of any COUNTY or STATE codes, ordinances, standards, or policies.

☐ Owner ☒ Agent ☐ Contractor

Signature

[Signature]

Date

11/08/99

COUNTY

BERNALILLO COUNTY USE ONLY	
C/Rs:	TOTAL FEE:
	Receipt No.:
	Received By:

SUSAN

DRAINAGE INFORMATION SHEET

PROJECT TITLE:	<u>Pete Riboni, Canyon De Carnue Grant, Fill area Limits</u>	ZONE ATLAS/DRNG. FILE #:	<u>L-26-Z / 10002</u>
DRB #:	<u> </u>	EPC #:	<u> </u>
WORK ORDER #:	<u> </u>		
LEGAL DESCRIPTION:	<u>Lands Pete Riboni, Canon De Carnue Grant</u>		
CITY ADDRESS:	<u> </u>		
ENGINEERING FIRM:	<u>Advanced Engineering and Consulting, LLC</u>	CONTACT:	<u>Shahab Biazar</u>
ADDRESS:	<u>10205 Snowflake Ct. NW Alb., NM 87114</u>	PHONE:	<u>(505) 899-5570</u>
OWNER:	<u> </u>	CONTACT:	<u> </u>
ADDRESS:	<u> </u>	PHONE:	<u> </u>
ARCHITECT:	<u> </u>	CONTACT:	<u> </u>
ADDRESS:	<u> </u>	PHONE:	<u> </u>
SURVEYOR:	<u> </u>	CONTACT:	<u> </u>
ADDRESS:	<u> </u>	PHONE:	<u> </u>
CONTRACTOR:	<u> </u>	CONTACT:	<u> </u>
ADDRESS:	<u> </u>	PHONE:	<u> </u>

TYPE OF SUBMITTAL:

- | | |
|-------------------------------------|------------------------------------|
| ☒ | DRAINAGE REPORT |
| ☐ | DRAINAGE PLAN |
| ☐ | CONCEPTUAL GRADING & DRAINAGE PLAN |
| ☒ | GRADING PLAN |
| ☐ | EROSION CONTROL PLAN |
| ☐ | ENGINEER'S CERTIFICATION |
| ☐ | OTHER |

CHECK TYPE OF APPROVAL SOUGHT:

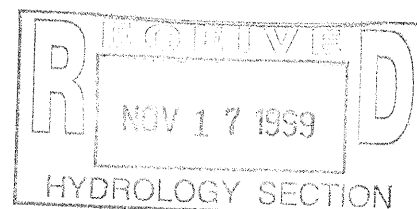
- | | |
|-------------------------------------|--|
| ☐ | SKETCH PLAN APPROVAL |
| ☐ | PRELIMINARY PLAT APPROVAL |
| ☐ | S. DEV. PLAN FOR SUB'D. APPROVAL |
| ☐ | S. DEV. PLAN FOR BLDG. PERMIT APPROVAL |
| ☐ | SECTOR PLAN APPROVAL |
| ☐ | FINAL PLAT APPROVAL |
| ☐ | FOUNDATION PERMIT APPROVAL |
| ☐ | BUILDING PERMIT APPROVAL |
| ☐ | CERTIFICATE OF OCCUPANCY APPROVAL |
| ☒ | GRADING PERMIT APPROVAL |
| ☐ | PAVING PERMIT APPROVAL |
| ☐ | S. A. D. DRAINAGE REPORT |
| ☐ | DRAINAGE REQUIREMENTS |
| ☐ | OTHER |

PRE-DESIGN MEETING:

- | | |
|--------------------------|---------------|
| ☐ | YES |
| ☐ | NO |
| ☐ | COPY PROVIDED |

DATE SUBMITTED: 11 / 08 / 99

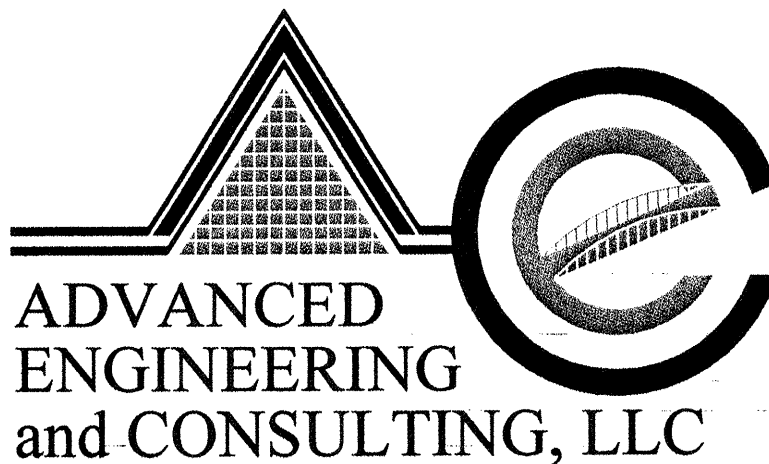
BY: SHAHAB BIAZAR



DRAINAGE REPORT
FOR

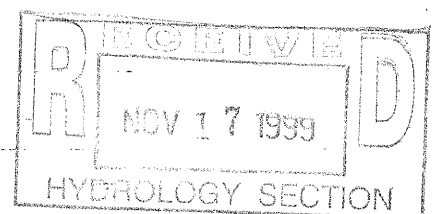
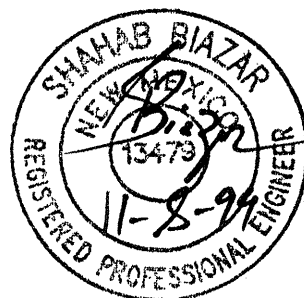
PETE RIBONI CANYON DE CARNUE GRANT FILL AREA LIMITS

Prepared by:

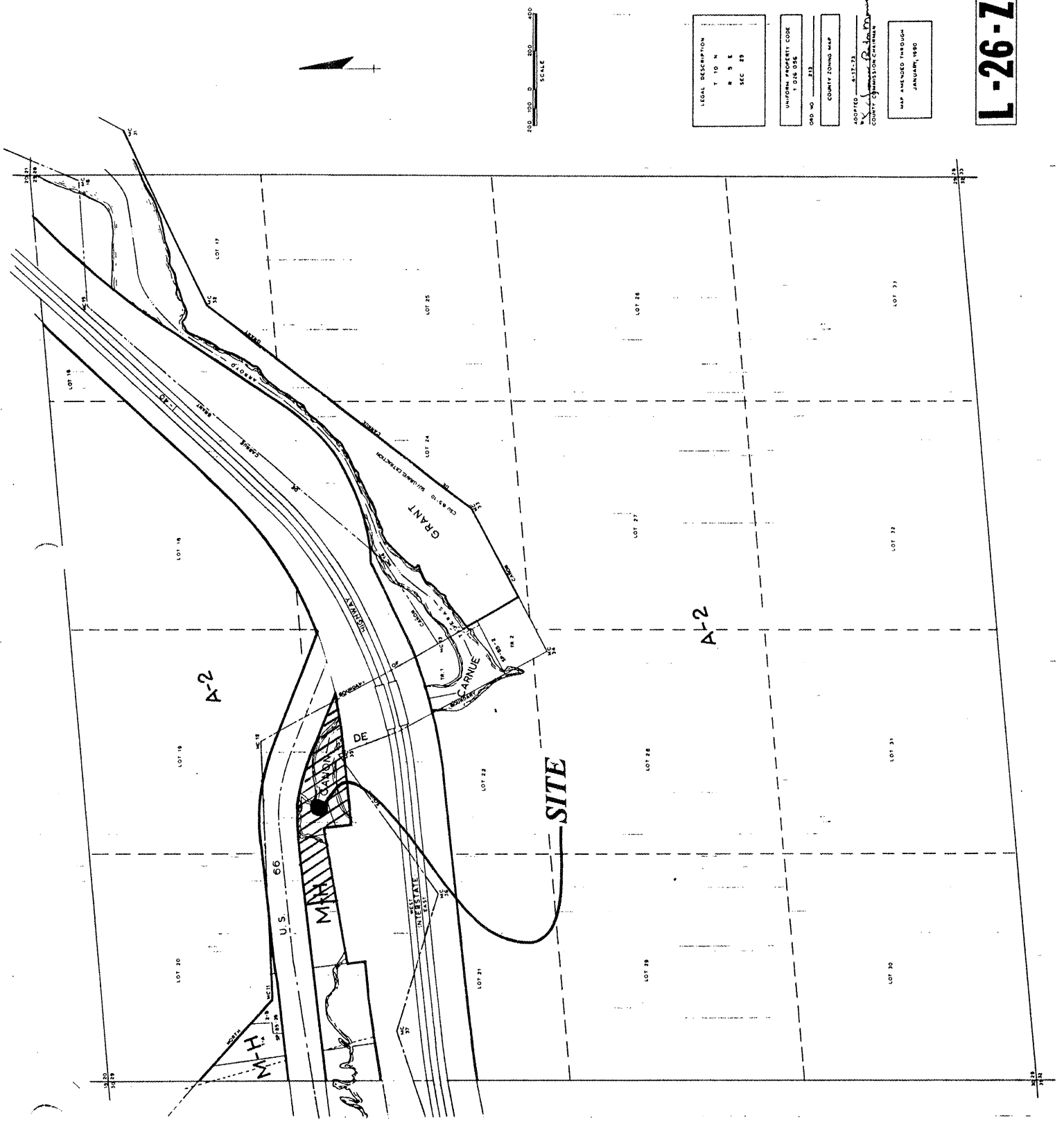


10205 Snowflake Ct. NW
Albuquerque, New Mexico 87114

November 8, 1999



Shahab Biazar
PE NO. 13479



L-26-Z

Location

Lands of Pete Riboni is a 4.468 acre site which located between the HWY-66 and Interstate 40. See attached vicinity map L-26-Z for location.

Purpose

Advanced Engineering and Consulting, LLC on behalf of the owner has prepared this plan for fill purposes only. The owner is proposing to place some fill material on this tract of land. Since the site falls within the Tijeras Arroyo floodplain, the limits of the 100-year runoff should be delineates so the contractors would not encroach into the floodplain limits.

Existing/Proposed Drainage Conditions

The site falls within the Tijeras Arroyo floodplain. There are not floodplain maps from FEMA for these areas. We have calculated the 100-year WSEL and EGL using HEC-RAS program. A flow of 22,600 cfs was used to run the HEC-RAS calculations. The 22,600 cfs was obtain from previous drainage report (PWD-98-138, L26/D1) in the City of Albuquerque and Bernalillo County records. The existing limits of the 100-year WSEL and EGL are shown on the plan. No other drainage calculations are prepared at this time. We are not proposing to place any structure on this site at this time.

The site drains east to the Tijeras Arroyo and will continue to drain in that direction after the placement of the fill. We have shown the limits of the 100-year EGL as the limits of the fill area, and that the contractor will not fill beyond those limits. See the "Limits of Fill Area & Existing Floodplain" plan located in the map pocket.

HEC-RAS OUTPUT FILE

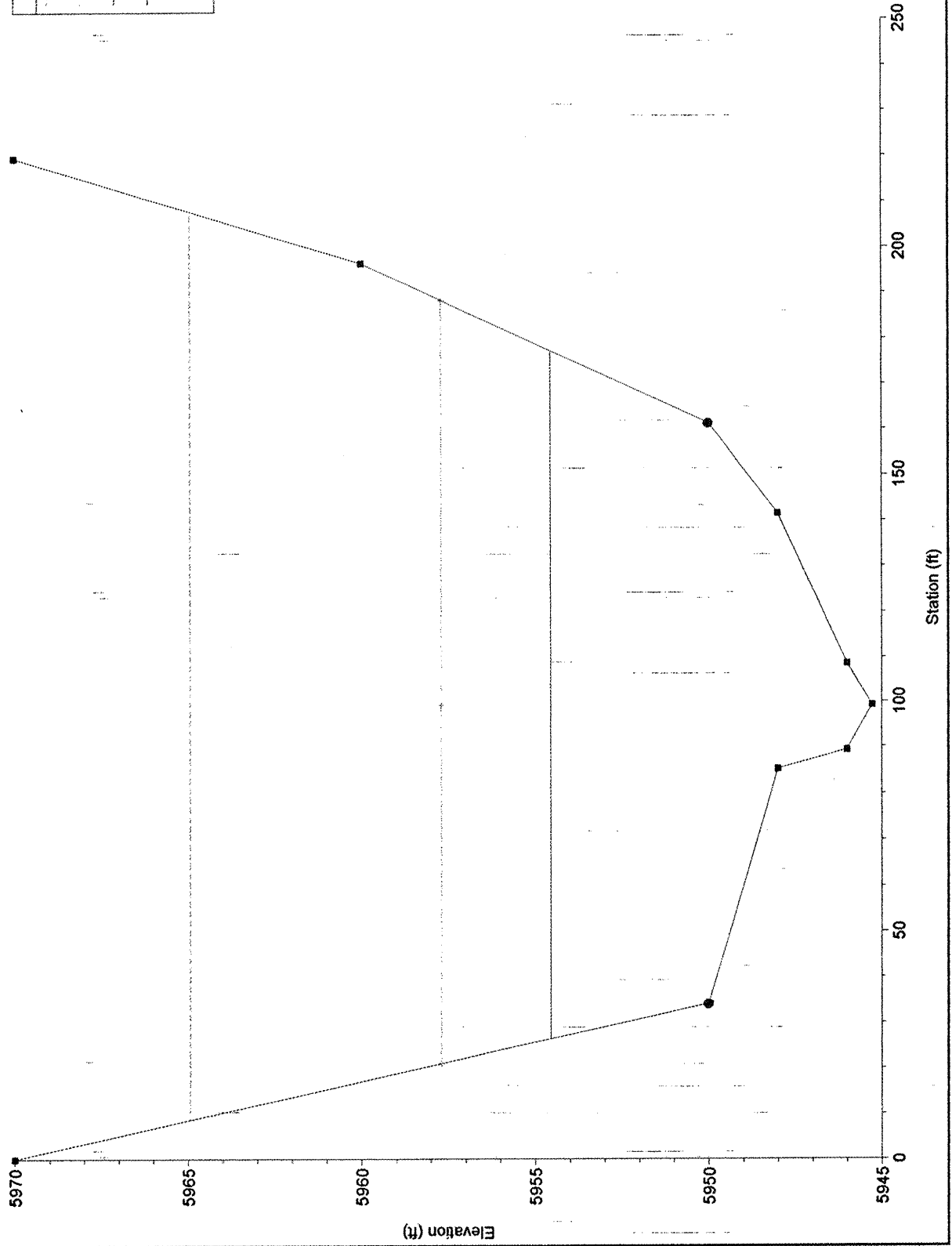
(UNDER EXISTING CONDITIONS)

HEC-RAS Plan: TIJERAS River: TIJERAS Reach: ARROYO

STA.	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (sq ft)	Froude
12.00	22600.00	5967.71	5981.18	5985.88	5995.95	0.03	37.72	845.94	89.02	1.82
11.00	22600.00	5965.53	5982.94	5985.89	5992.93	0.02	36.84	1042.31	101.32	1.57
10.00	22600.00	5963.23	5985.36	5985.36	5991.59	0.01	27.88	1403.32	121.56	1.05
9.00	22600.00	5962.25	5979.21	5982.49	5990.30	0.01	30.71	982.93	82.97	1.35
8.00	22600.00	5959.72	5976.27	5979.50	5988.40	0.02	33.93	960.14	93.28	1.51
7.00	22600.00	5957.49	5973.75	5977.53	5985.30	0.03	45.68	1020.73	148.44	2.01
6.00	22600.00	5953.38	5964.91	5968.98	5979.12	0.06	45.77	915.89	194.27	2.52
5.00	22600.00	5951.21	5965.74	5968.61	5974.42	0.02	32.88	1229.63	197.46	1.57
4.00	22600.00	5950.43	5965.31	5967.43	5972.33	0.02	30.27	1298.41	193.65	1.45
3.00	22600.00	5948.54	5963.07	5965.15	5970.23	0.02	30.22	1275.91	171.90	1.43
2.00	22600.00	5947.26	5958.88	5961.86	5968.45	0.02	26.02	1001.43	155.24	1.56
1.00	22600.00	5945.28	5954.55	5957.69	5964.93	0.03	26.12	899.66	151.07	1.79

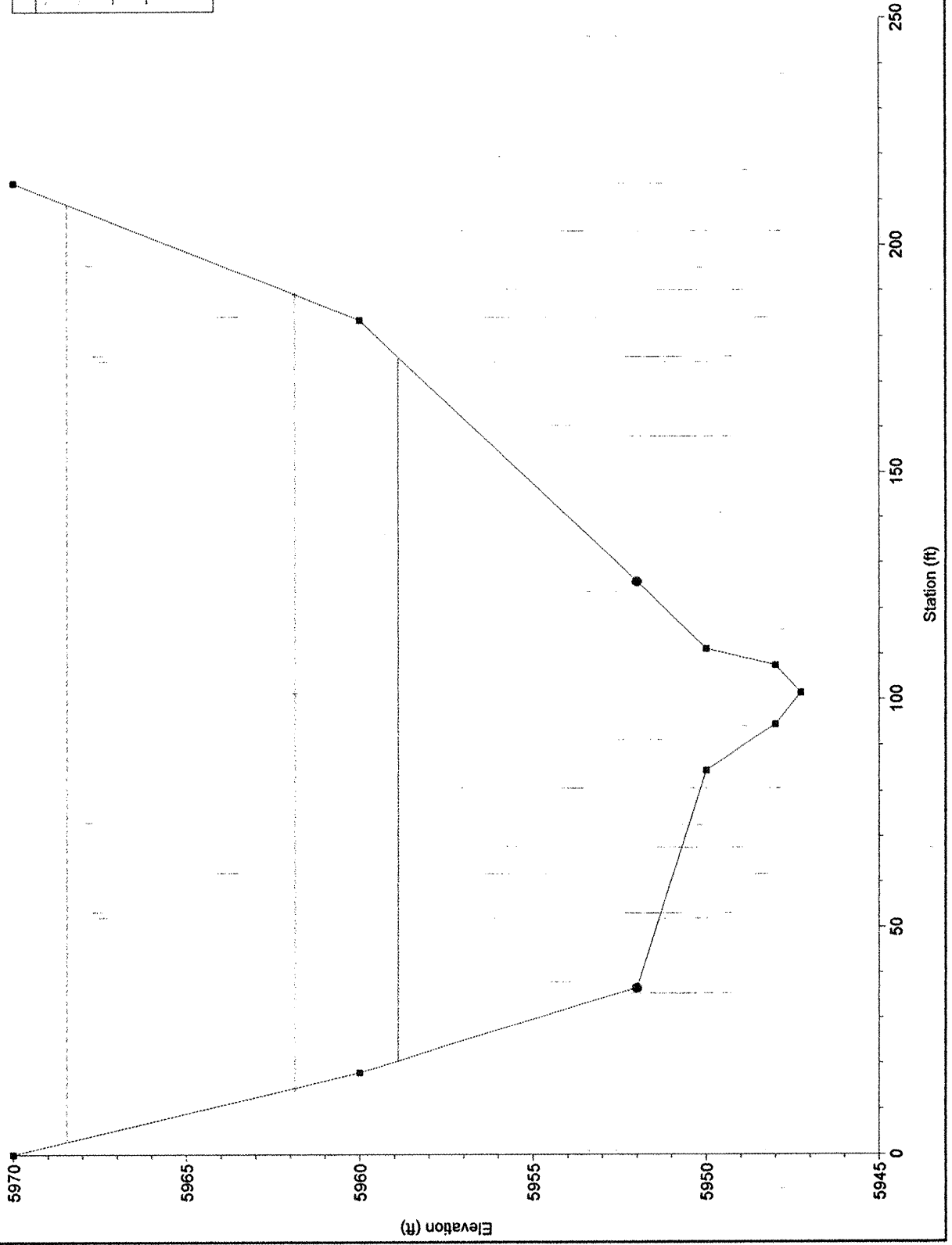
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Legend
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Crit PF#1
WS PF#1
Ground
Bank Sta



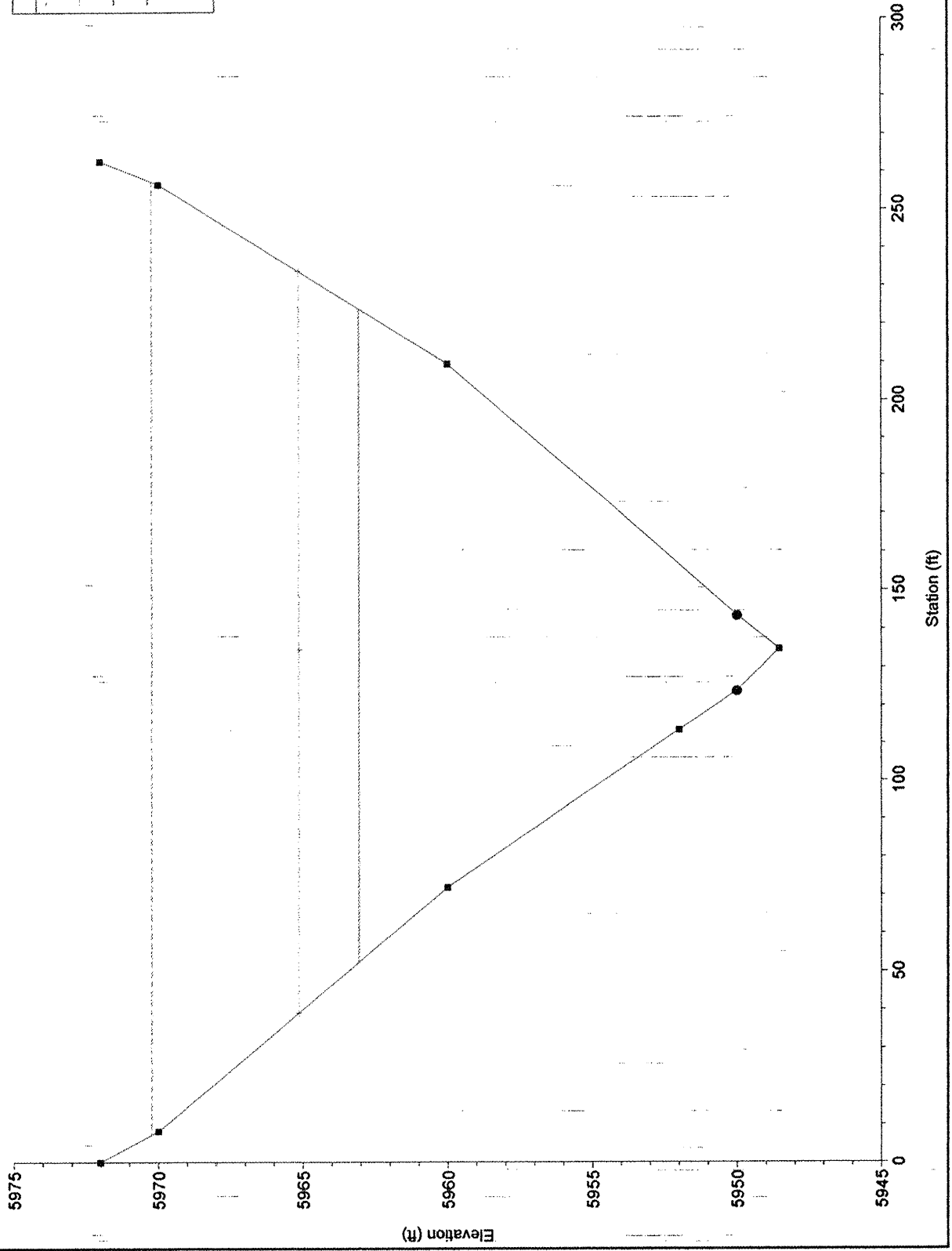
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WS PF#1	●
Ground	●
Bank Sta	●



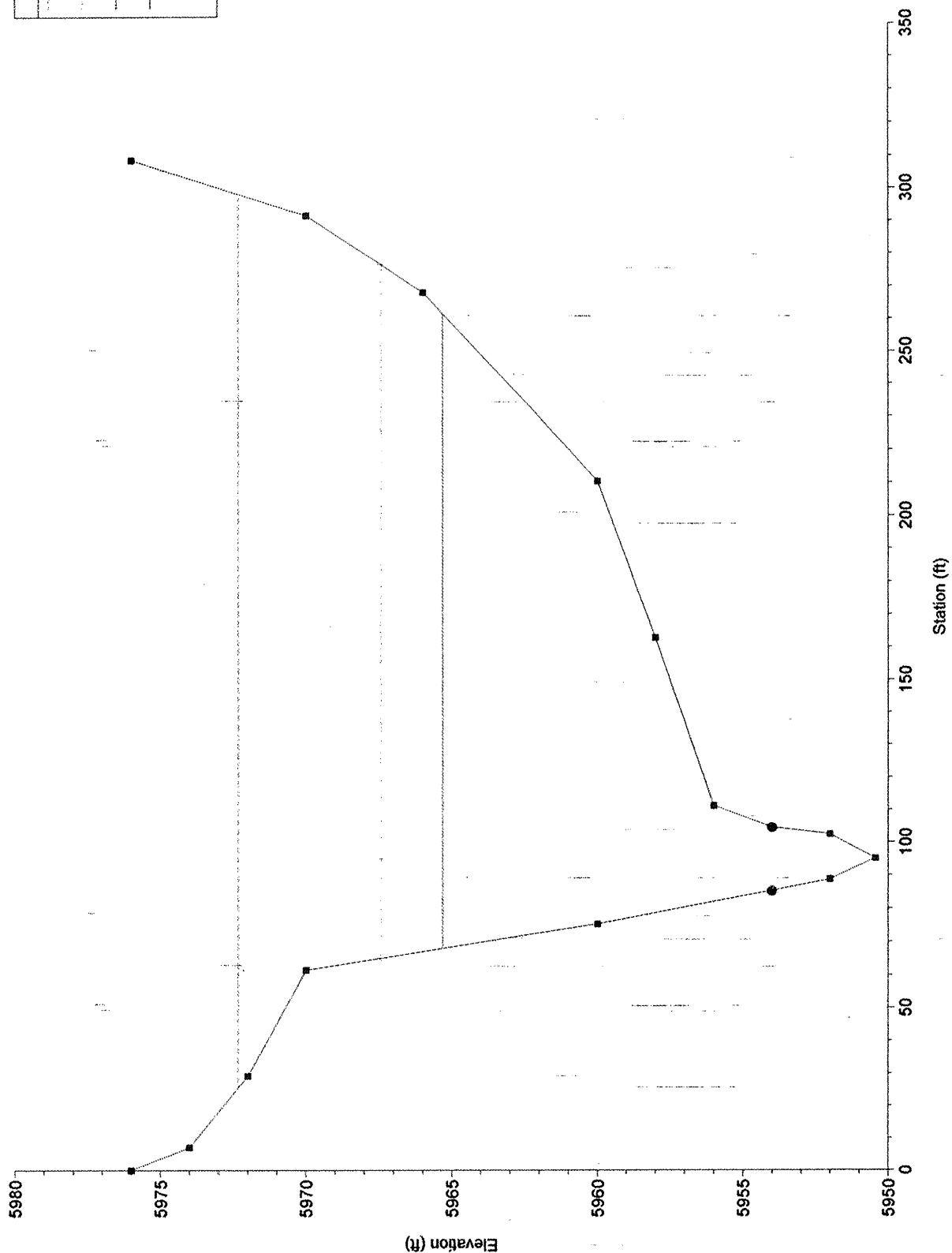
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Bank Sta	●



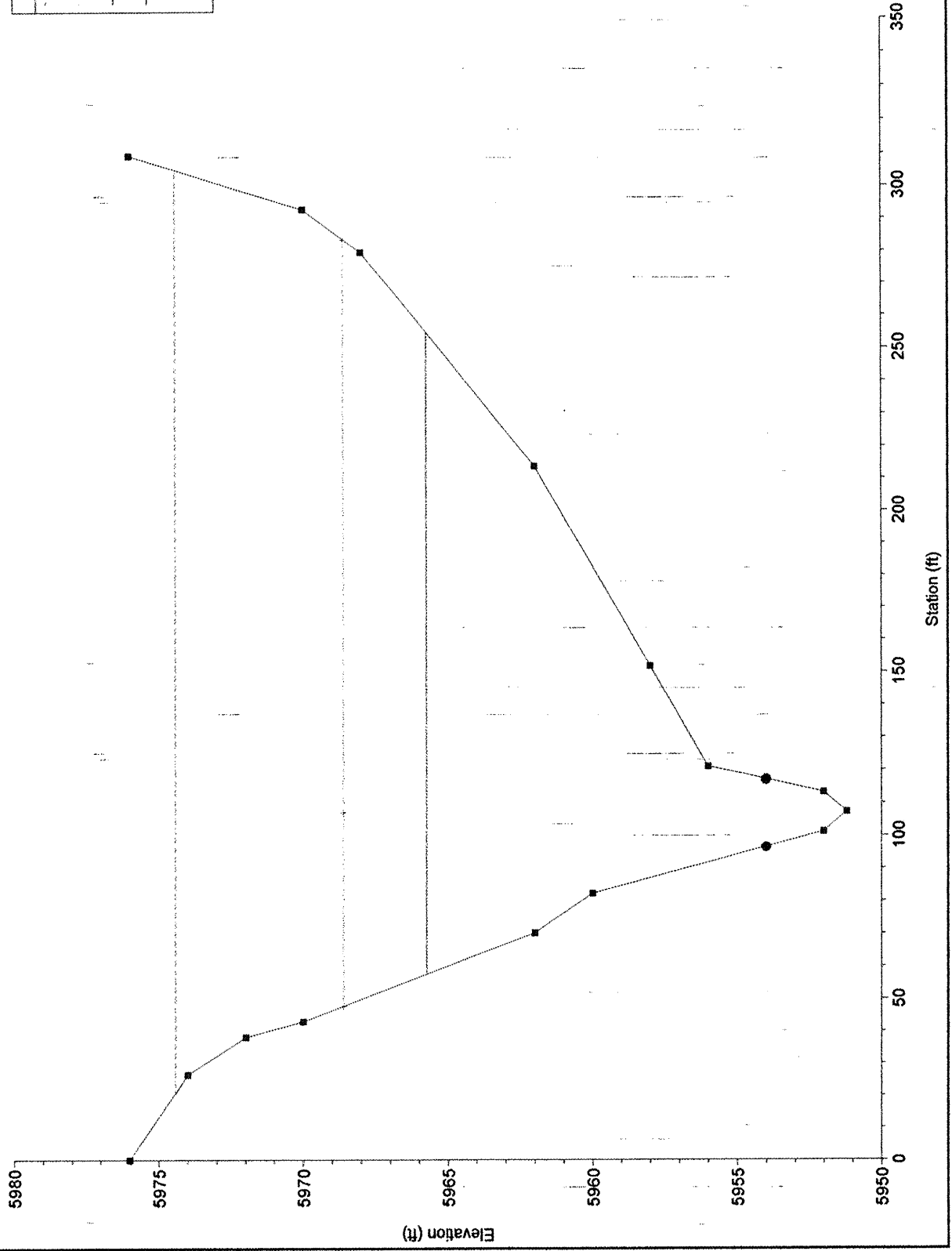
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Bank Sta	●



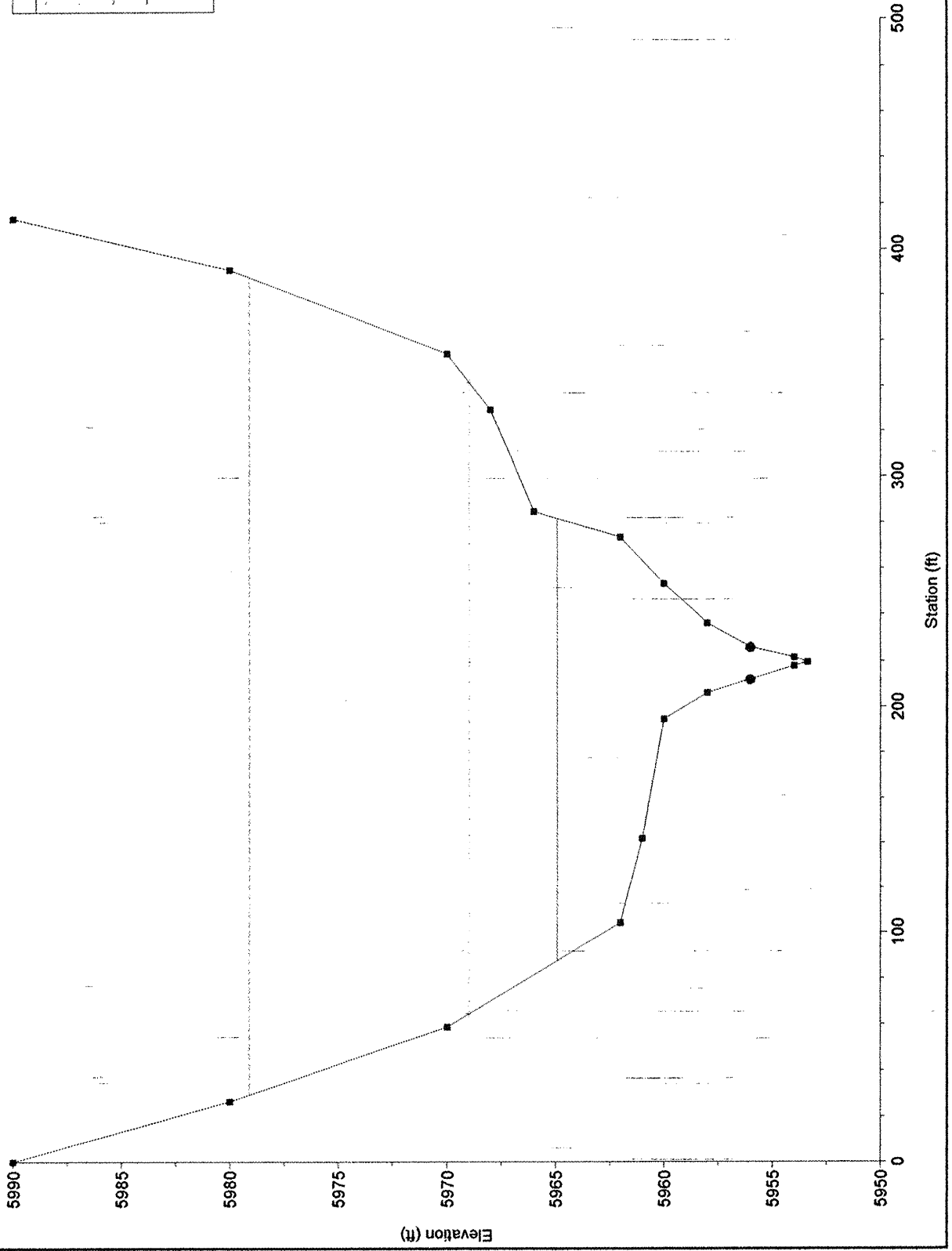
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WS PF#1	•
Ground	•
Bank Sta	•



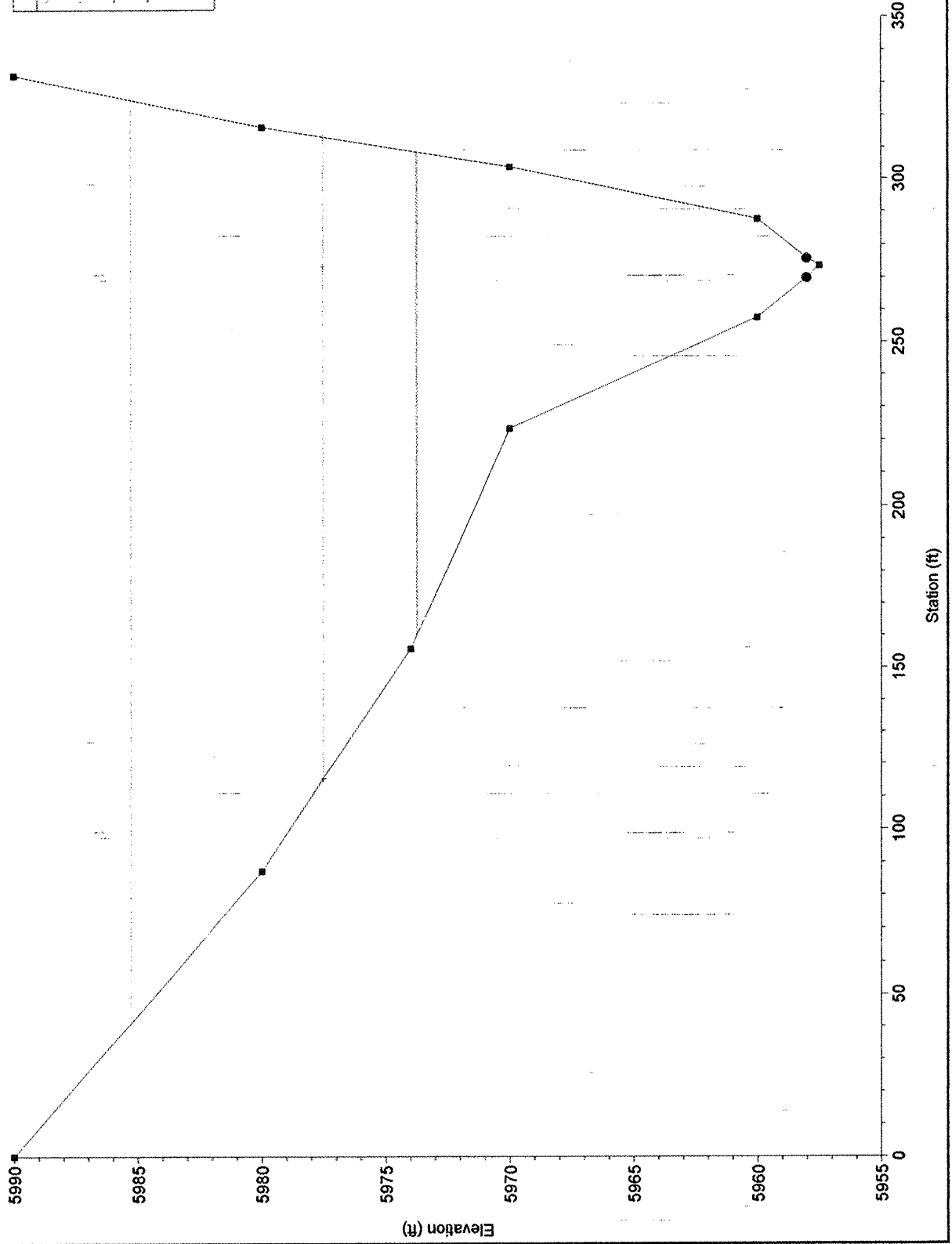
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WS PF#1	—
Ground	●
Bank Sta	●



SECTION 7

Legend
EG PF#1
Crit PF#1
WS PF#1
Ground
Bank Sta



SECTION 8

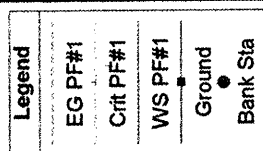
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- EG PF#1
- WS PF#1
- Bank Sta
- Ground
- Bank Sta

Elevation (ft)

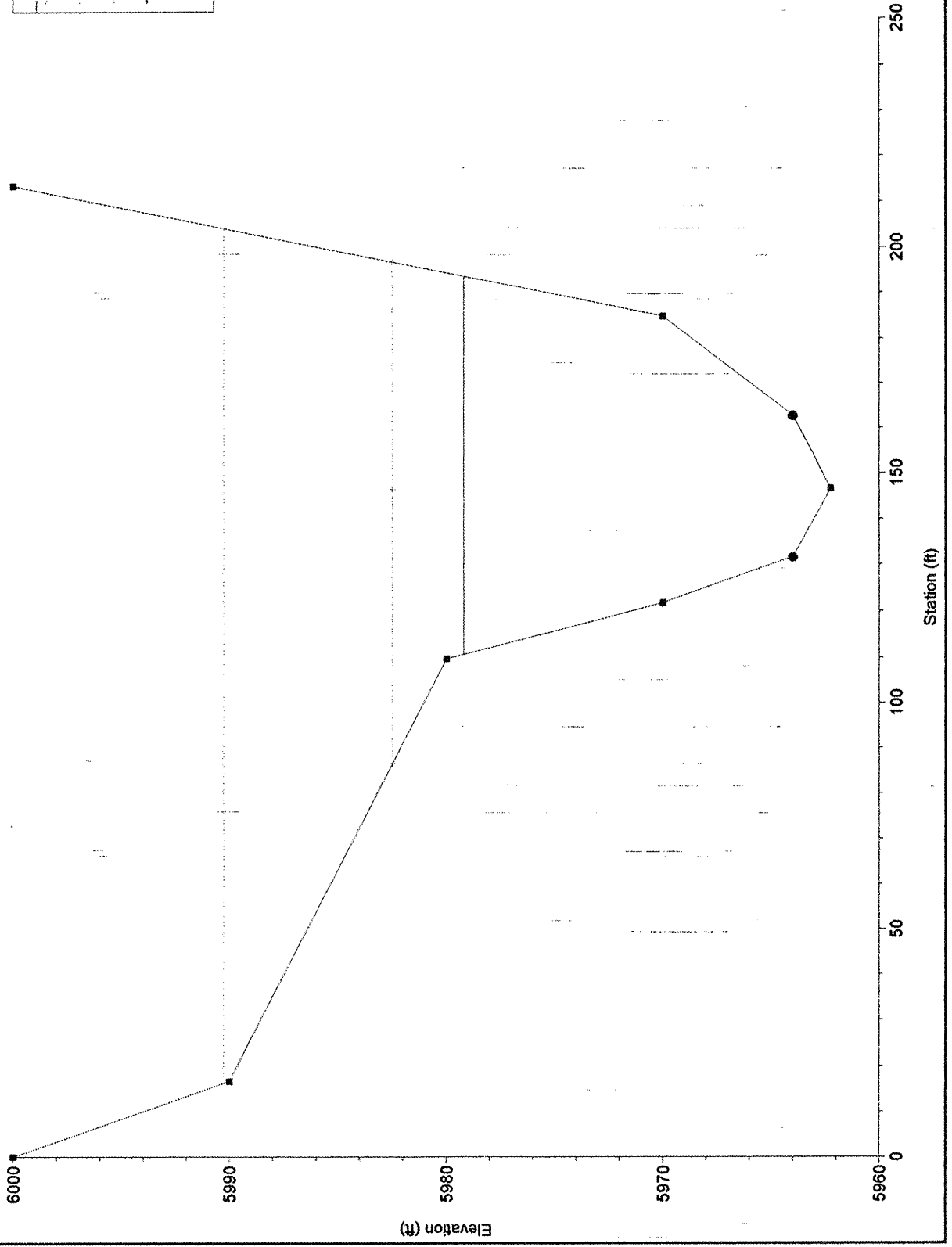
Station (ft)

Station (ft)	Elevation (ft)	Feature
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100	5980	EG PF#1
150	5970	EG PF#1
200	5960	EG PF#1
250	5955	EG PF#1
0	5990	WS PF#1
100	5980	WS PF#1
150	5970	WS PF#1
200	5960	WS PF#1
250	5955	WS PF#1
0	5990	Bank Sta
100	5980	Bank Sta
150	5970	Bank Sta
200	5960	Bank Sta
250	5955	Bank Sta



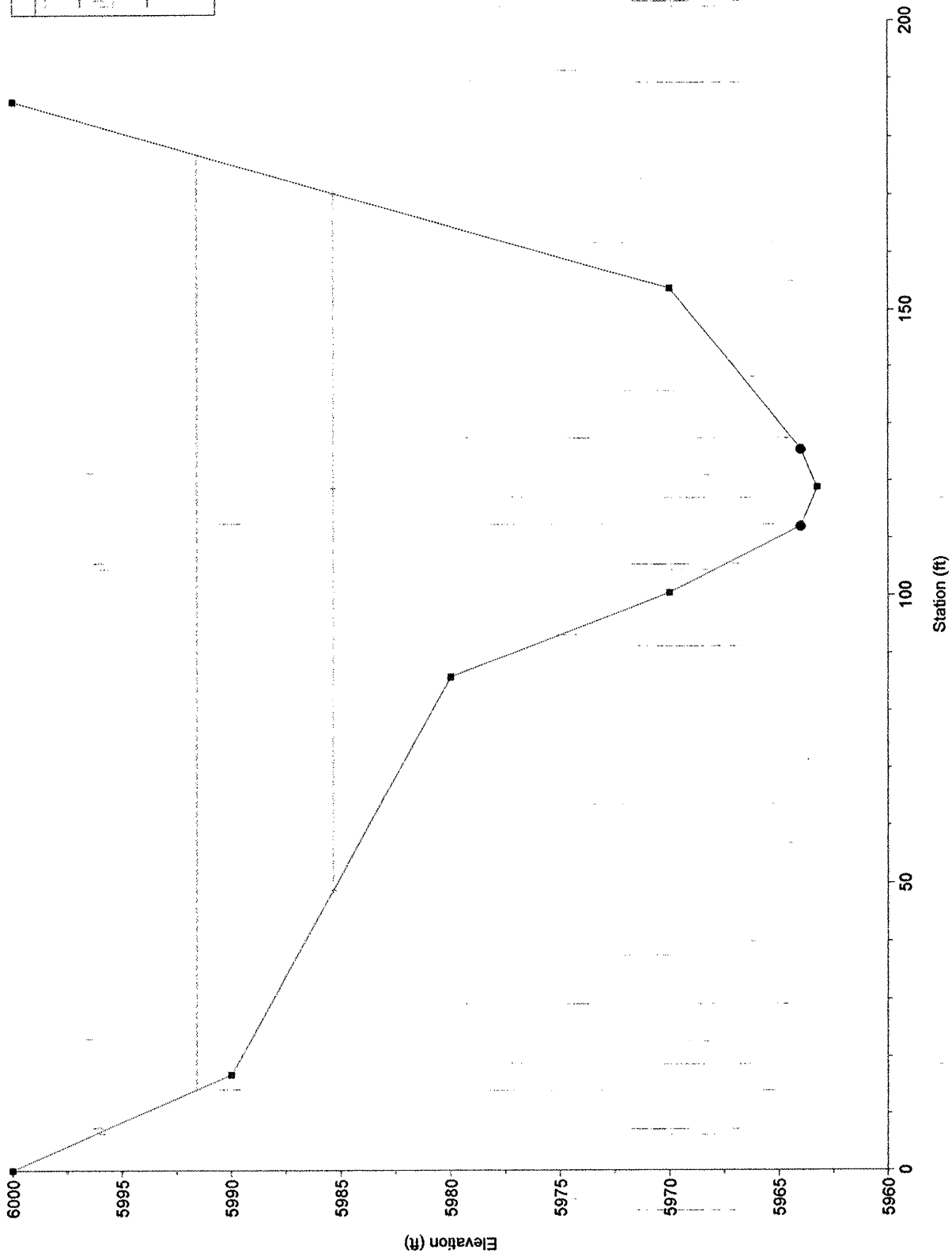
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Ground	●
Bank Sta	●



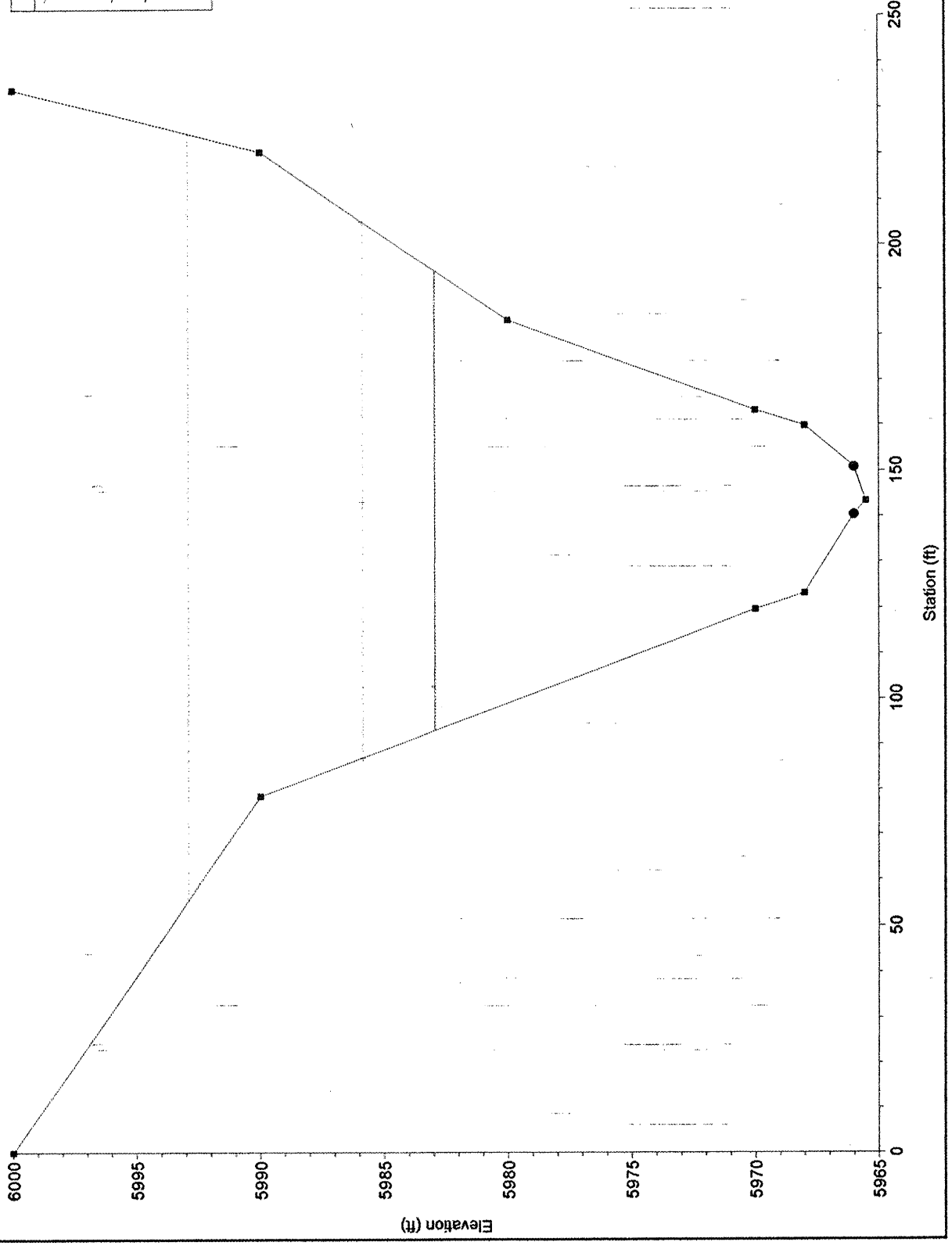
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WS PF#1
Crit PF#1
Ground
Bank Sta



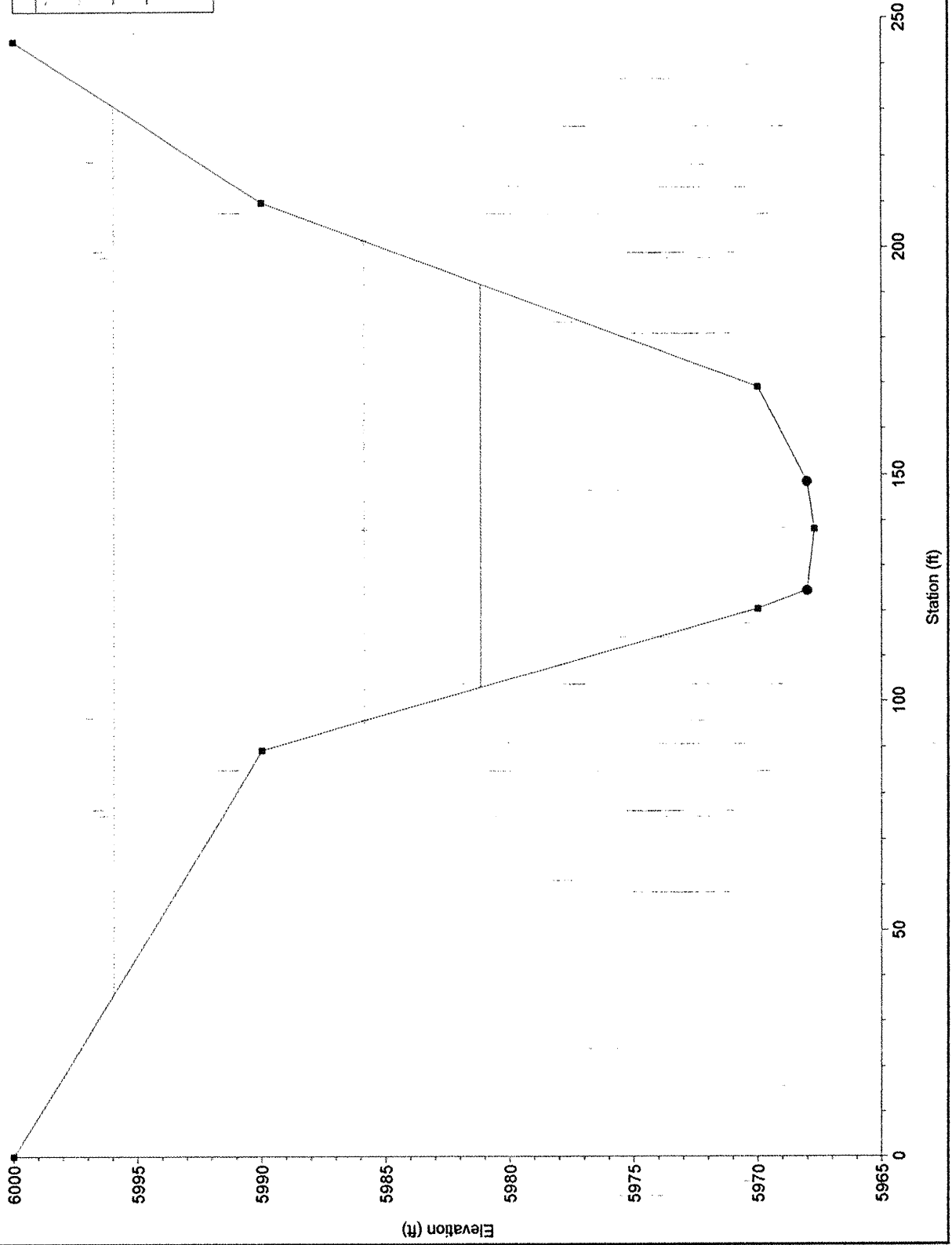
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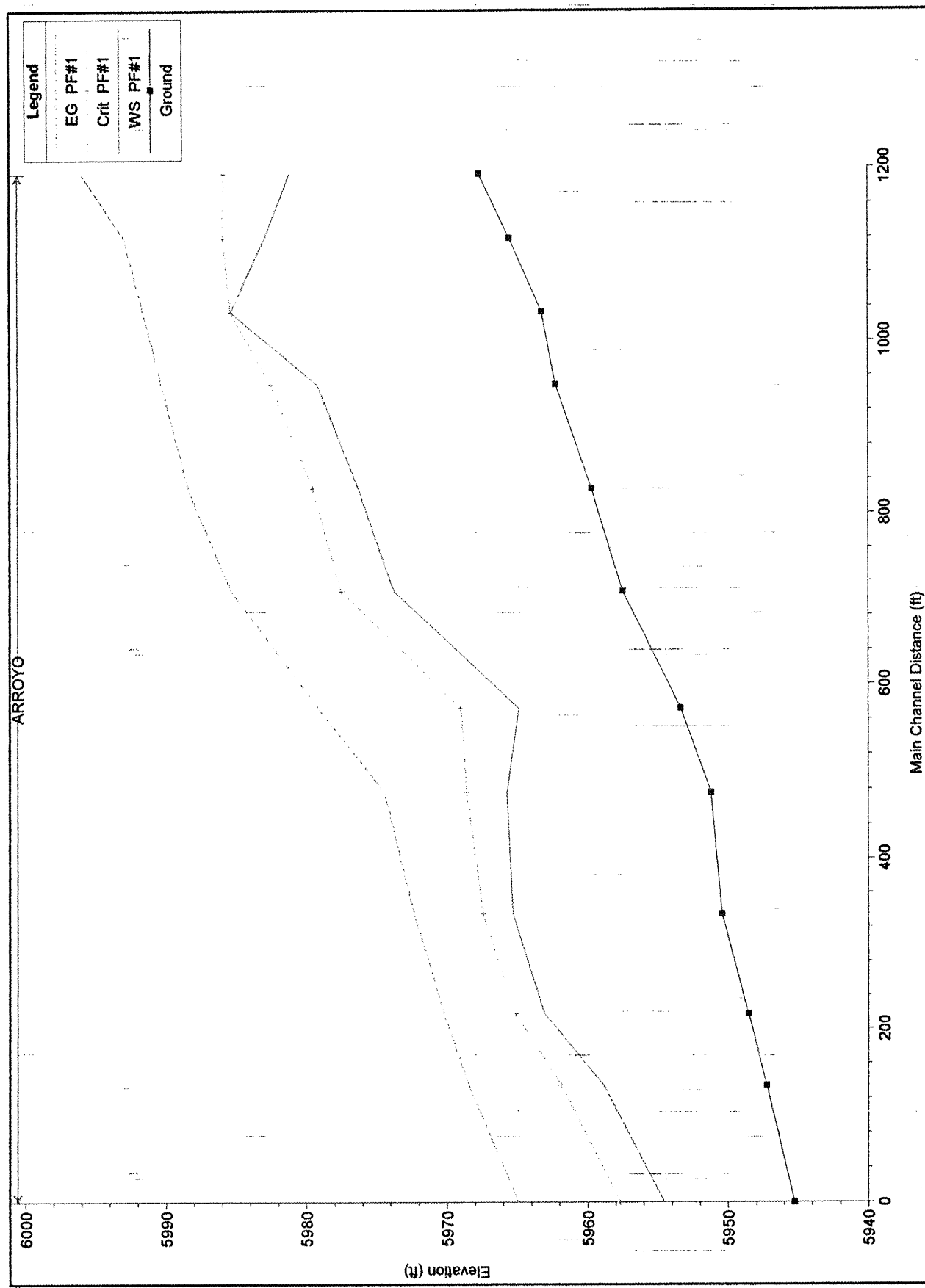
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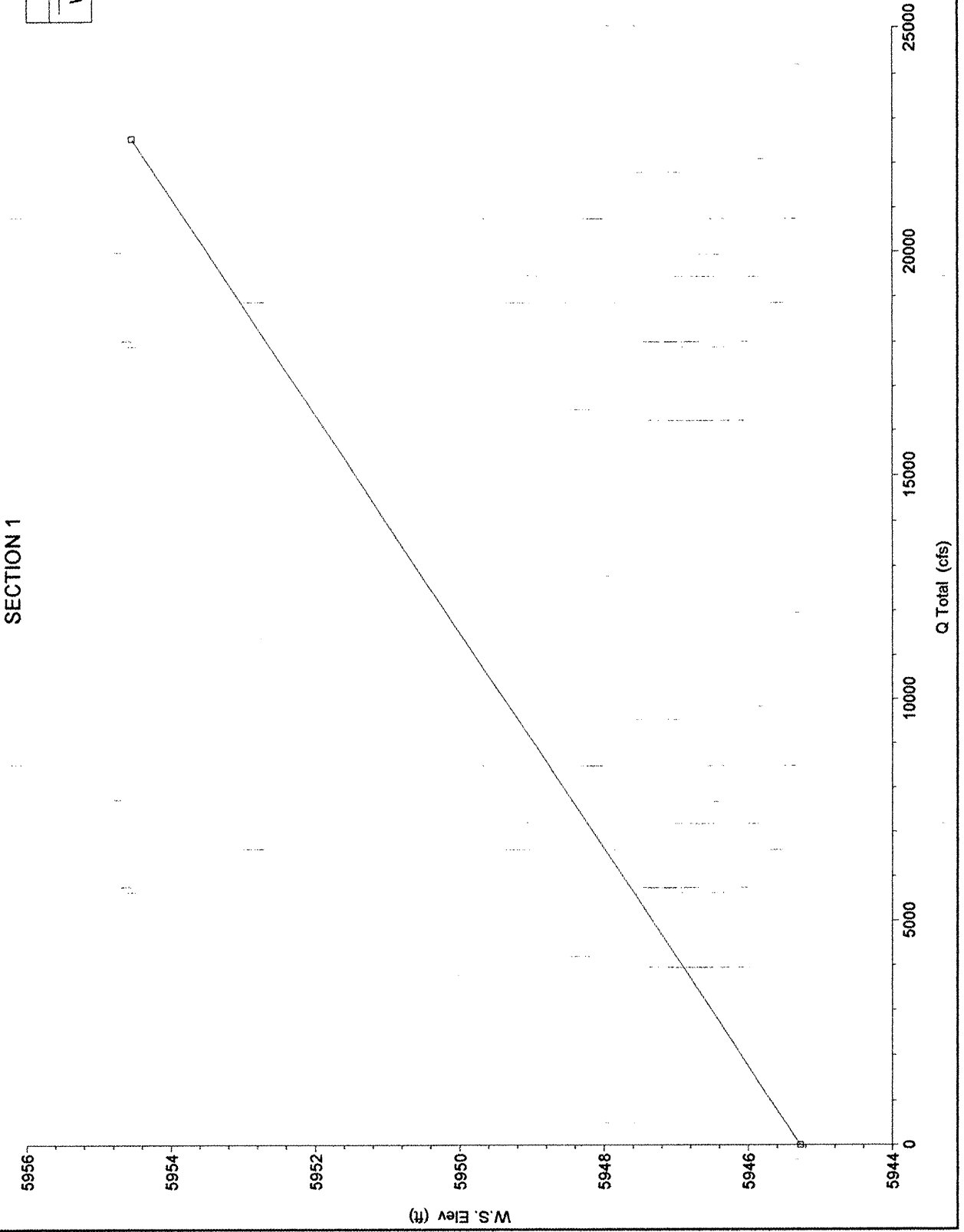
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Bank Sta

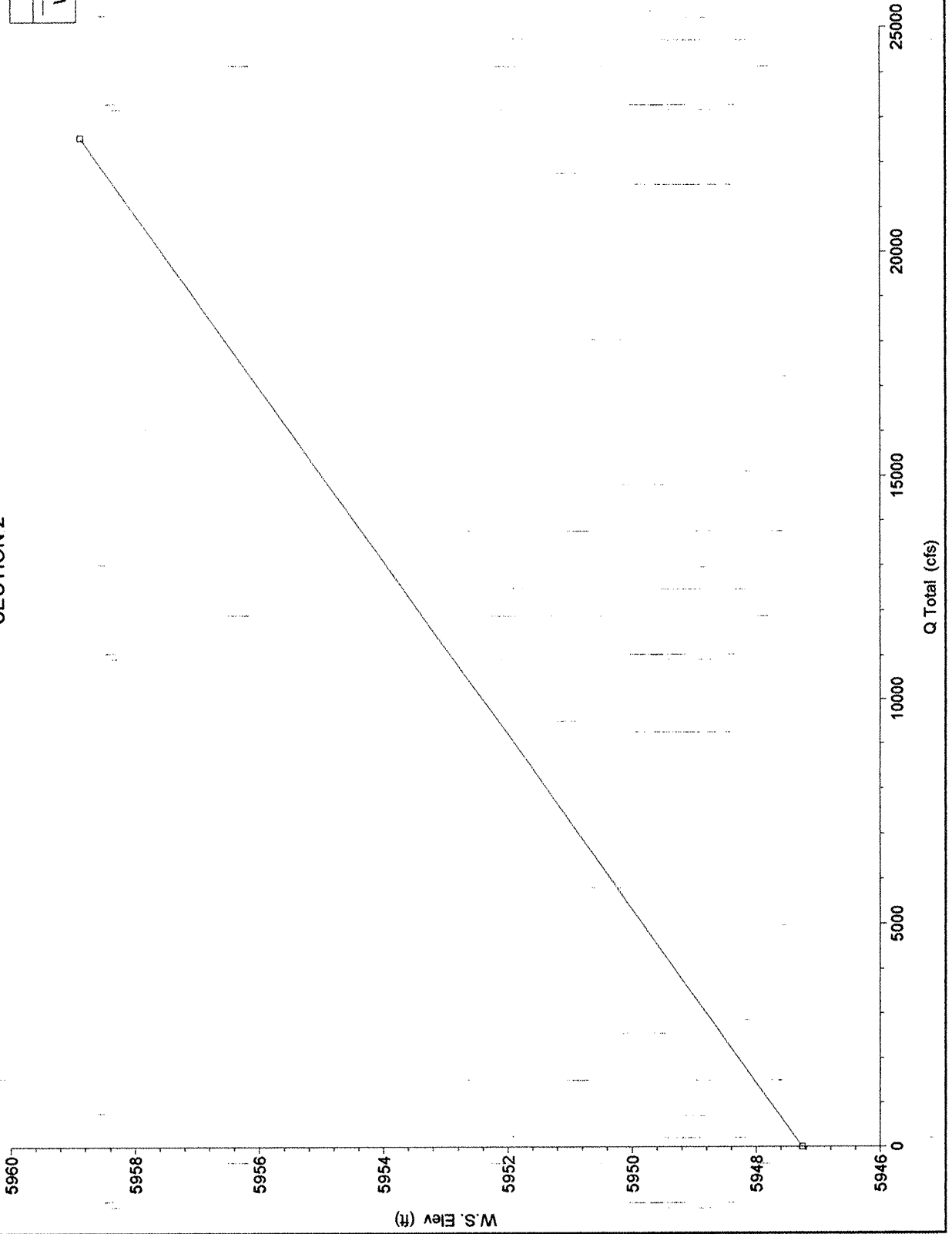
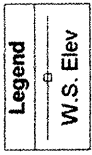




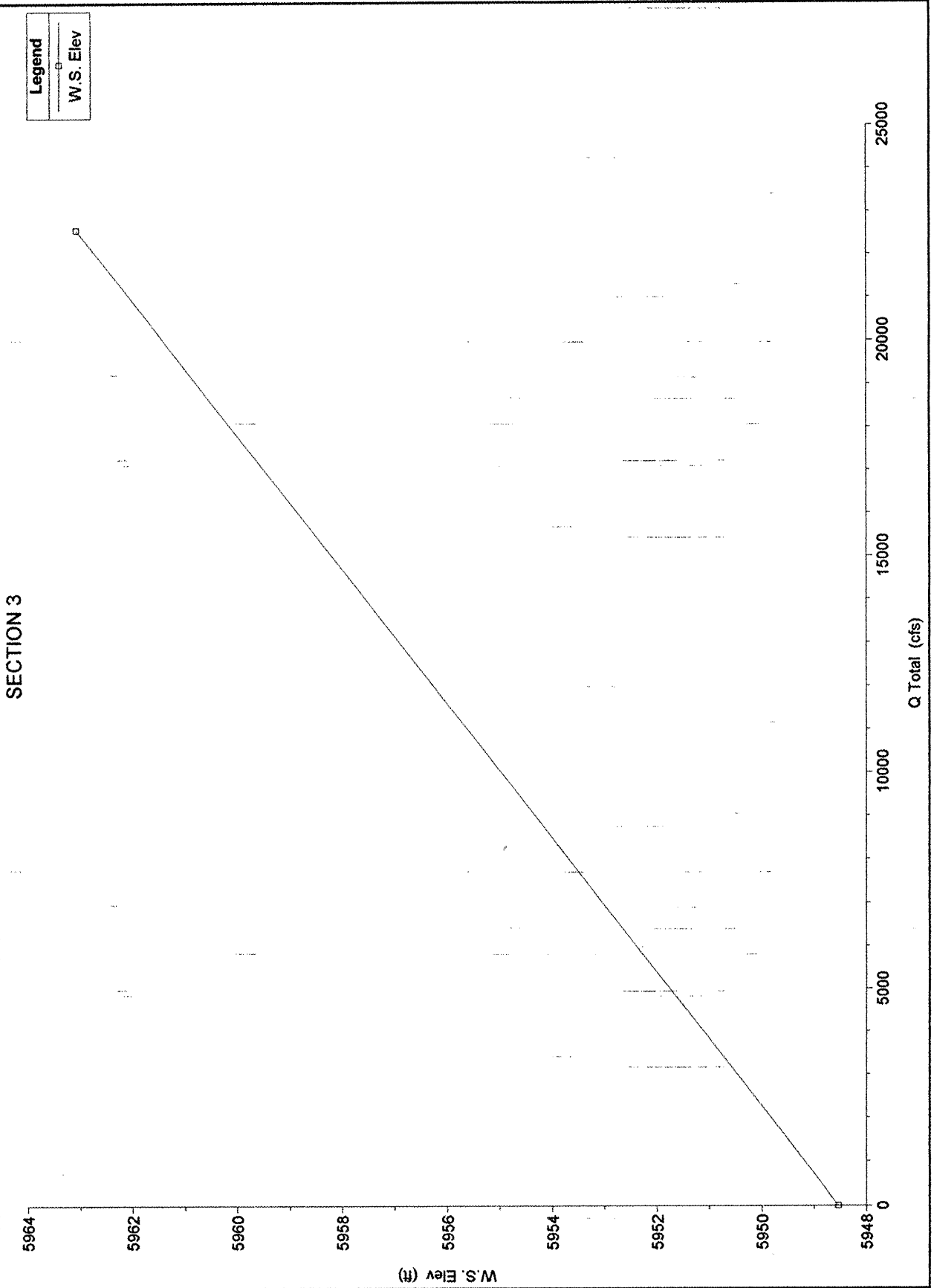
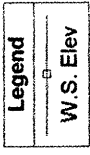
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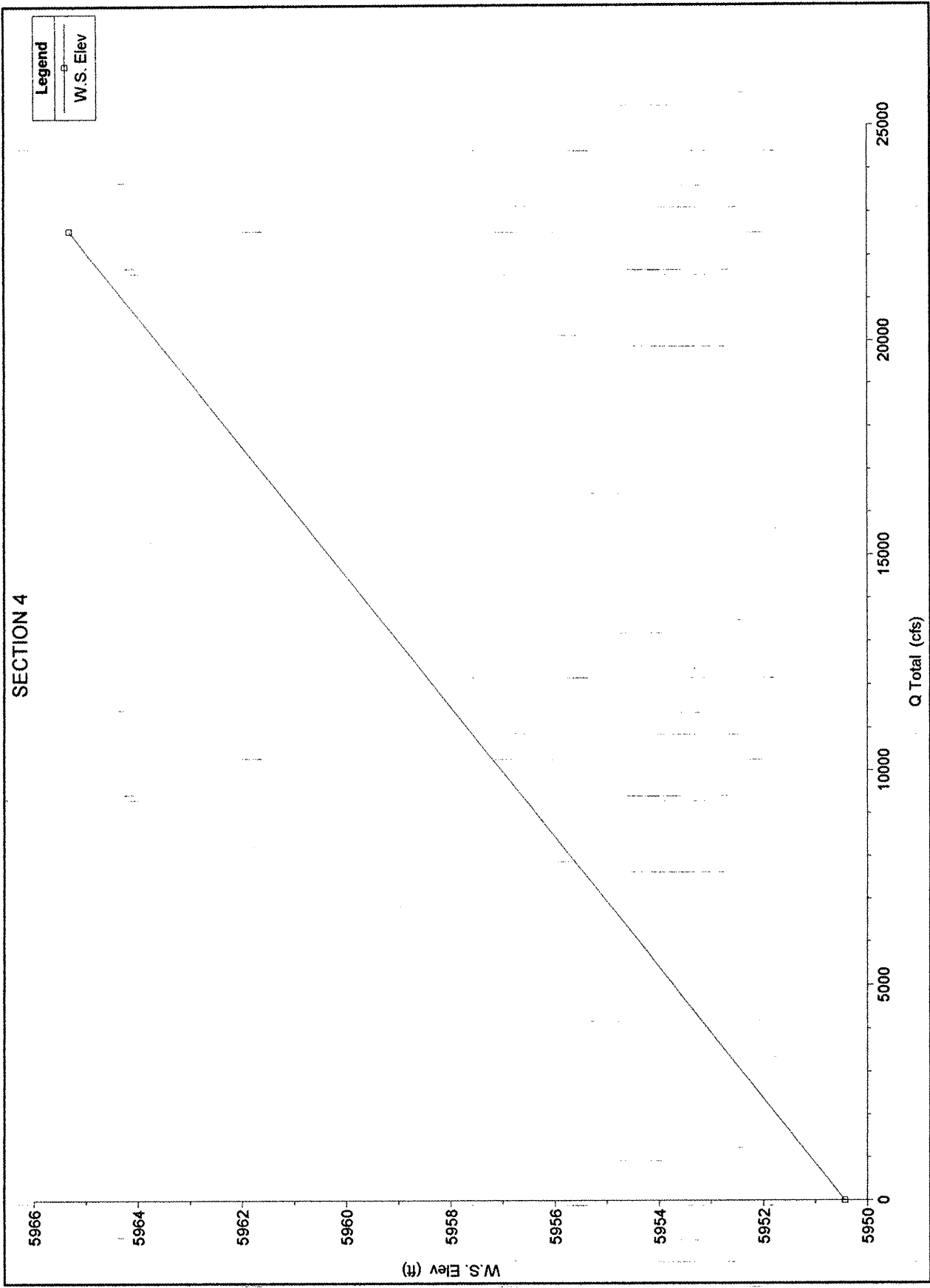
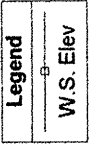
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SECTION 3

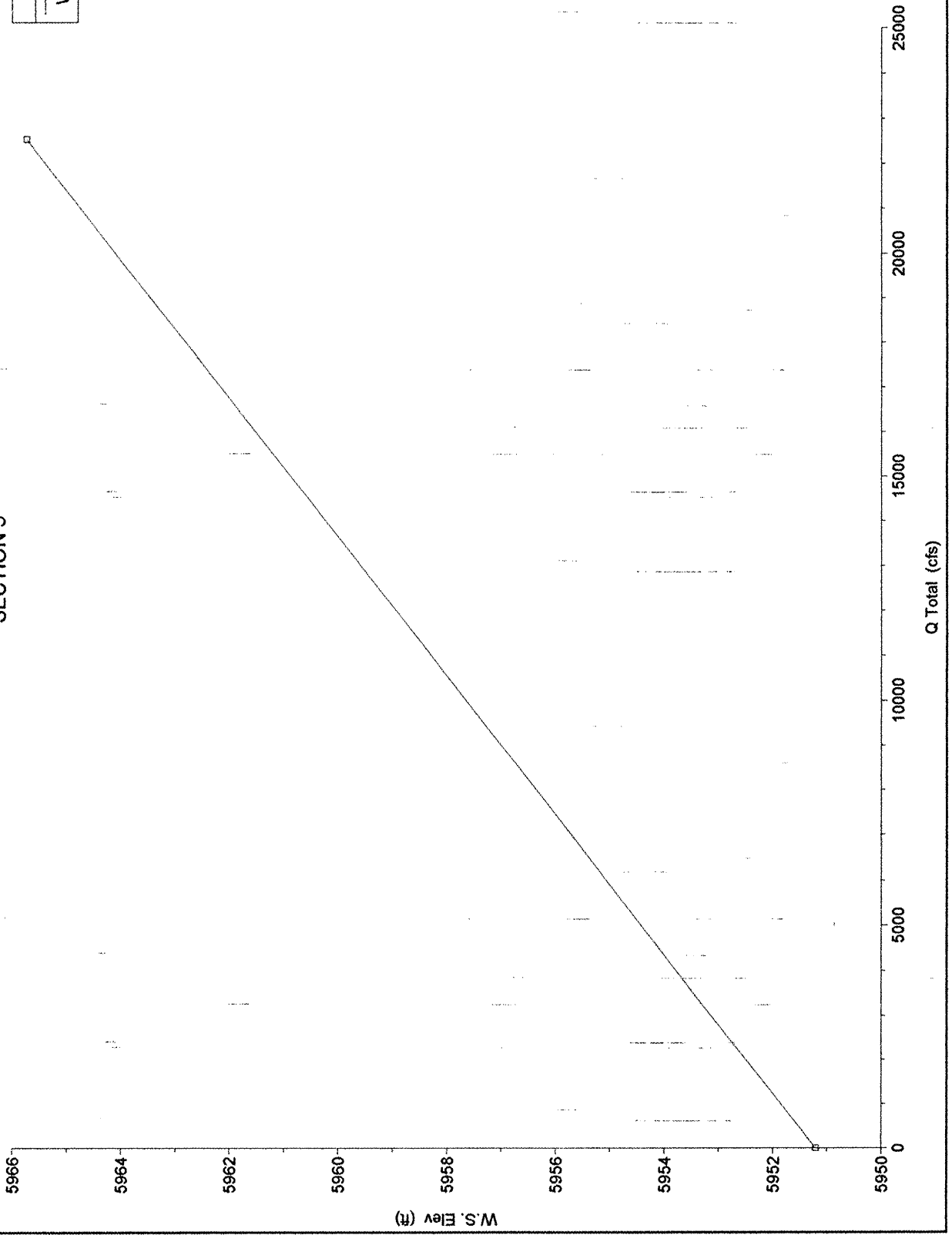


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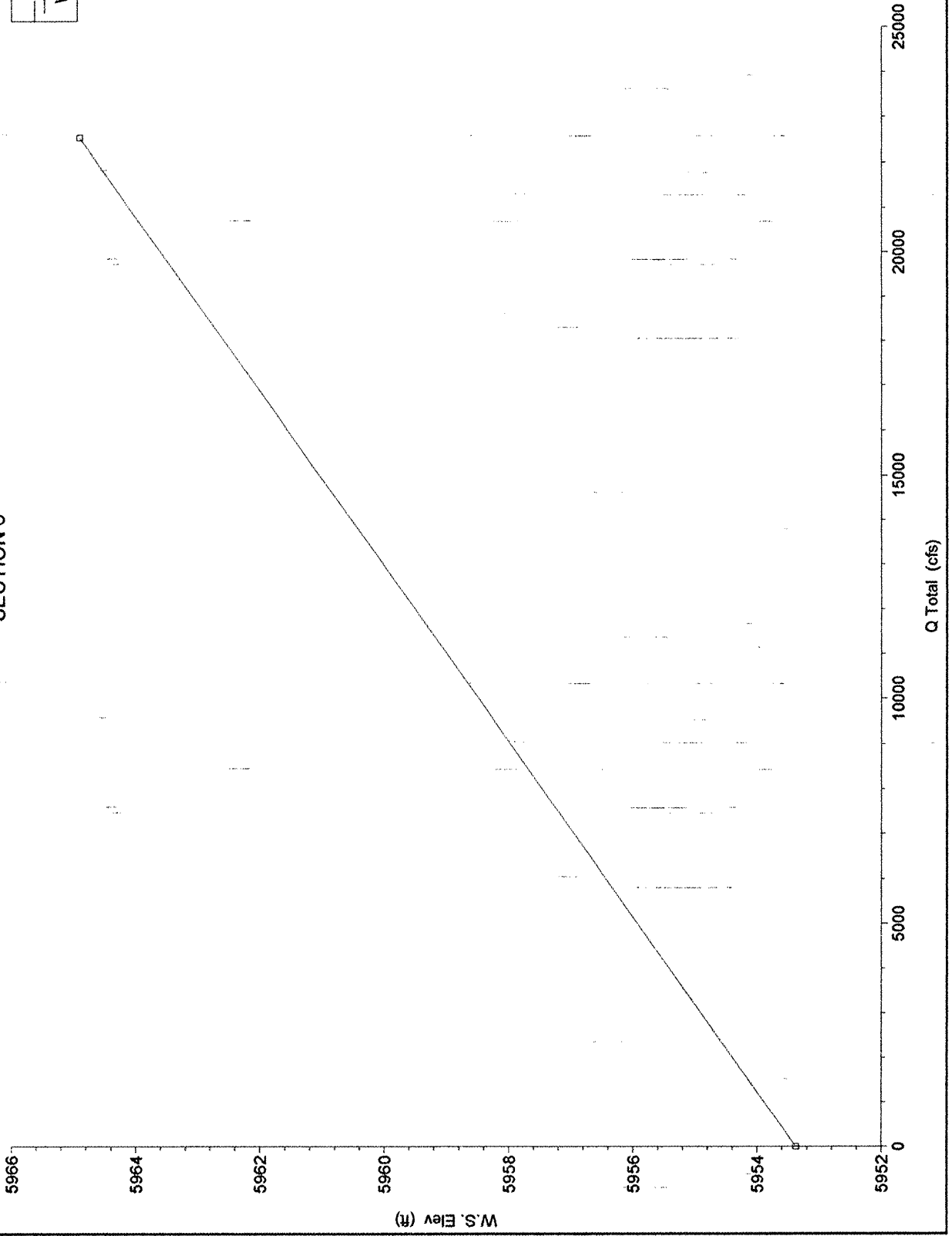
SECTION 5

Legend	
	W.S. Elev



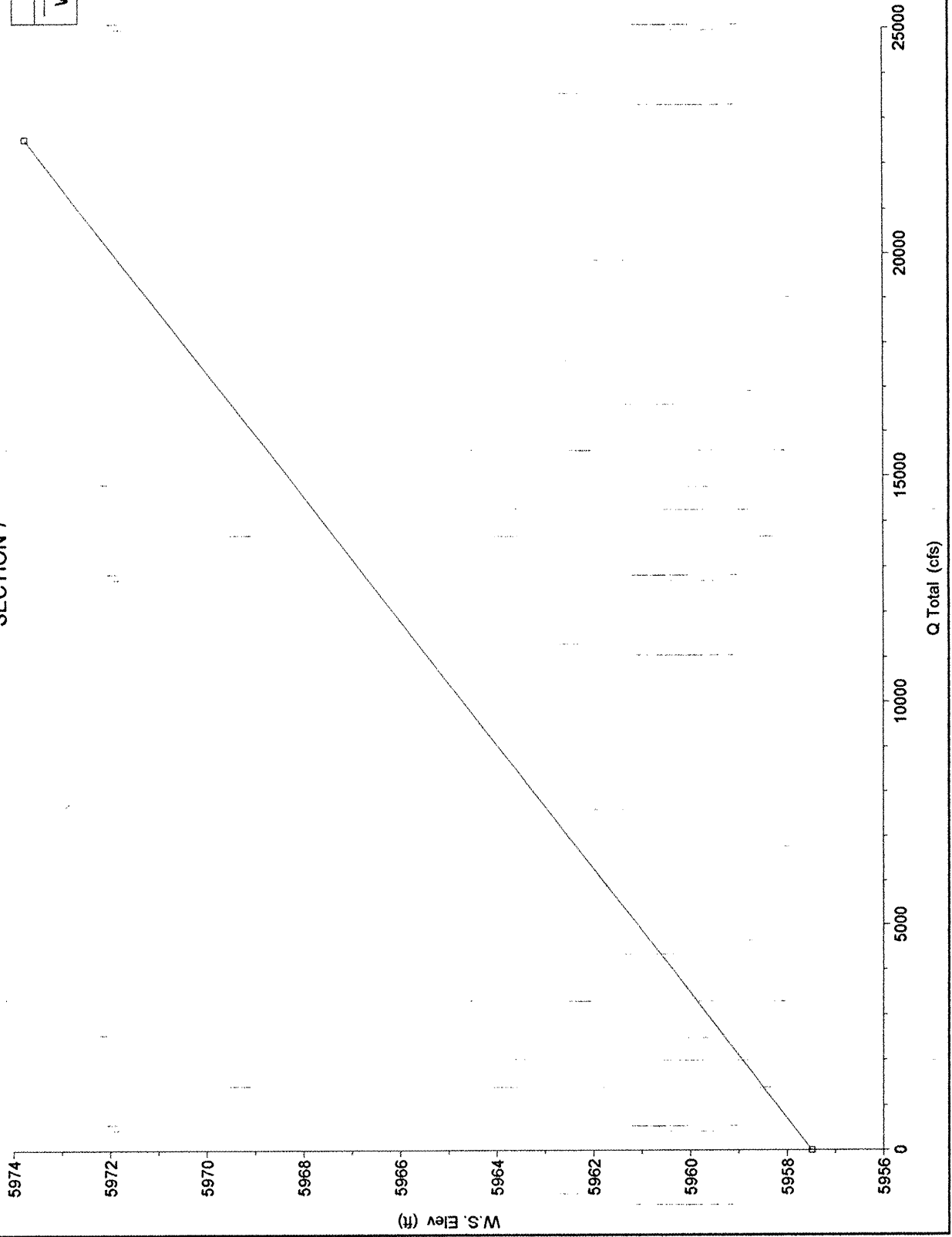
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Legend	
—	W.S. Elev



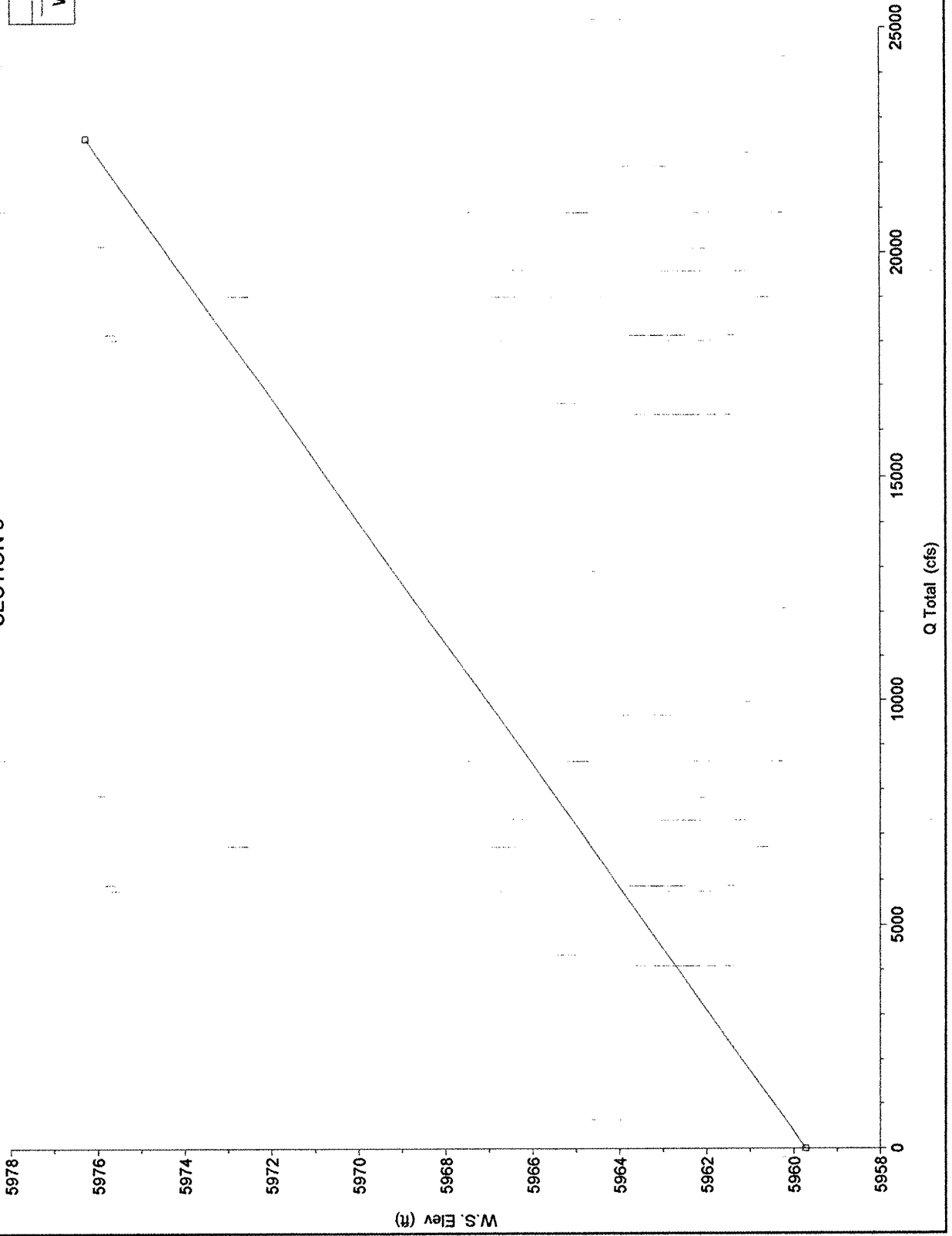
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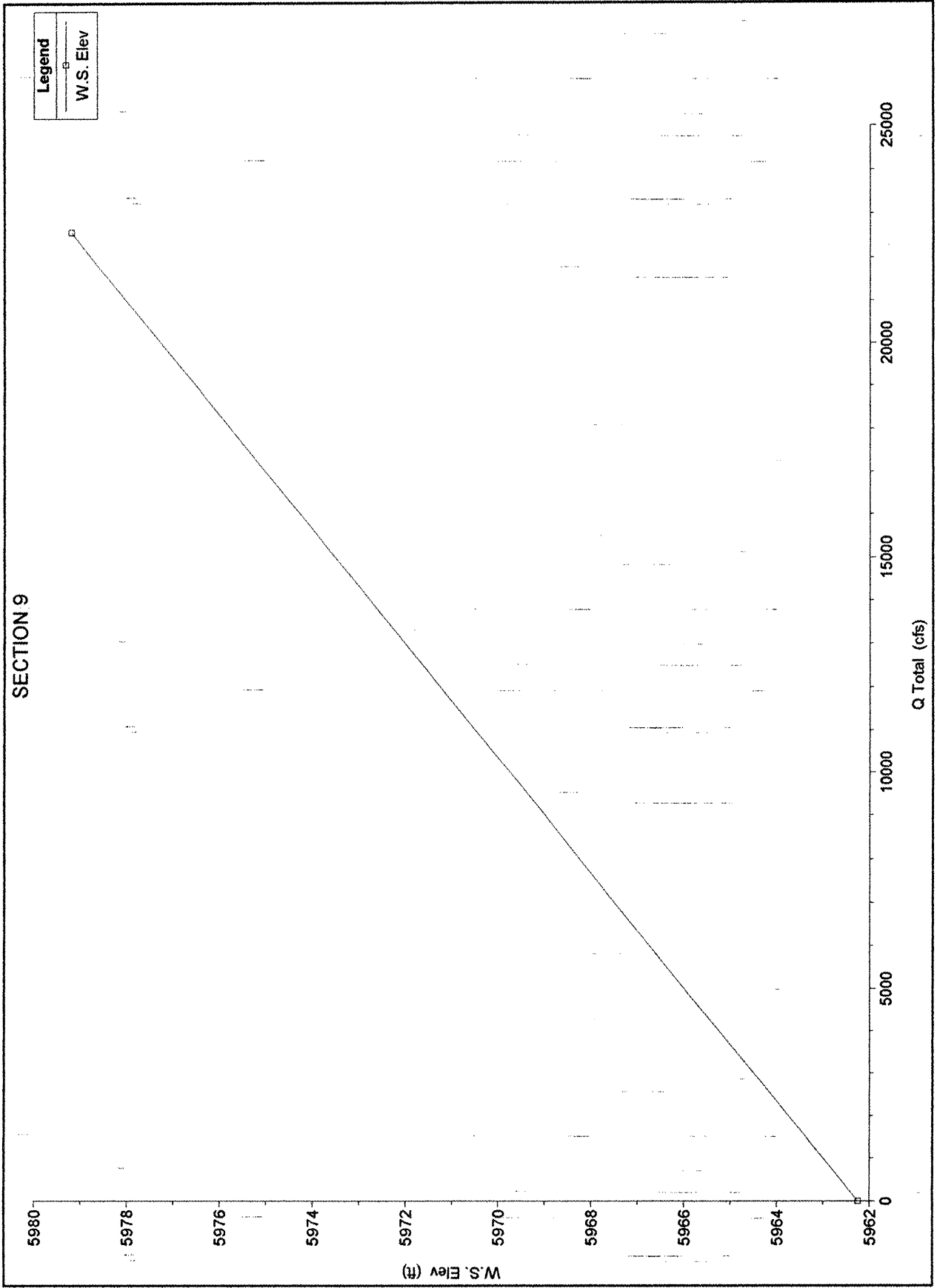
Legend	
—	W.S. Elev



SECTION 8

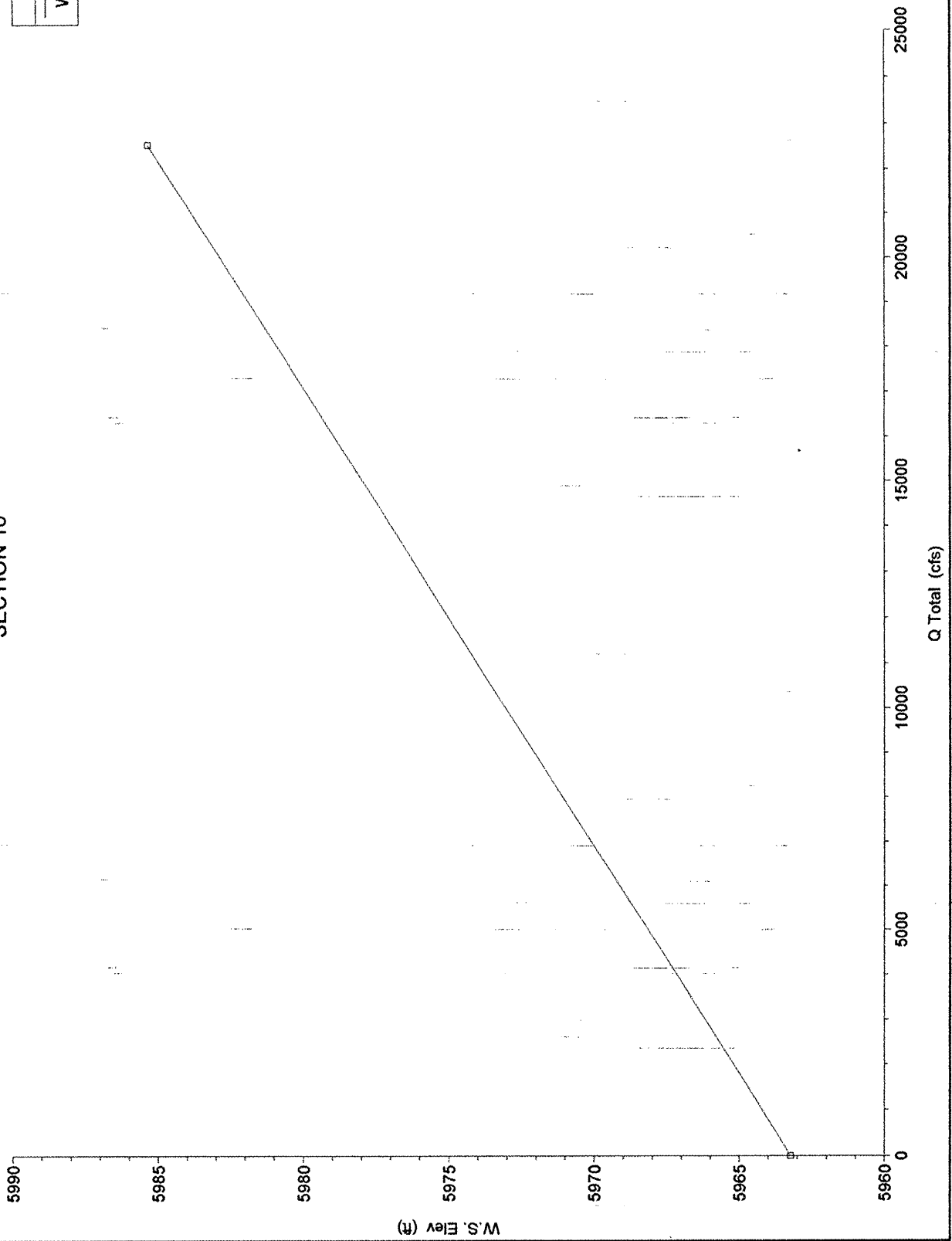
Legend	
—	W.S. Elev



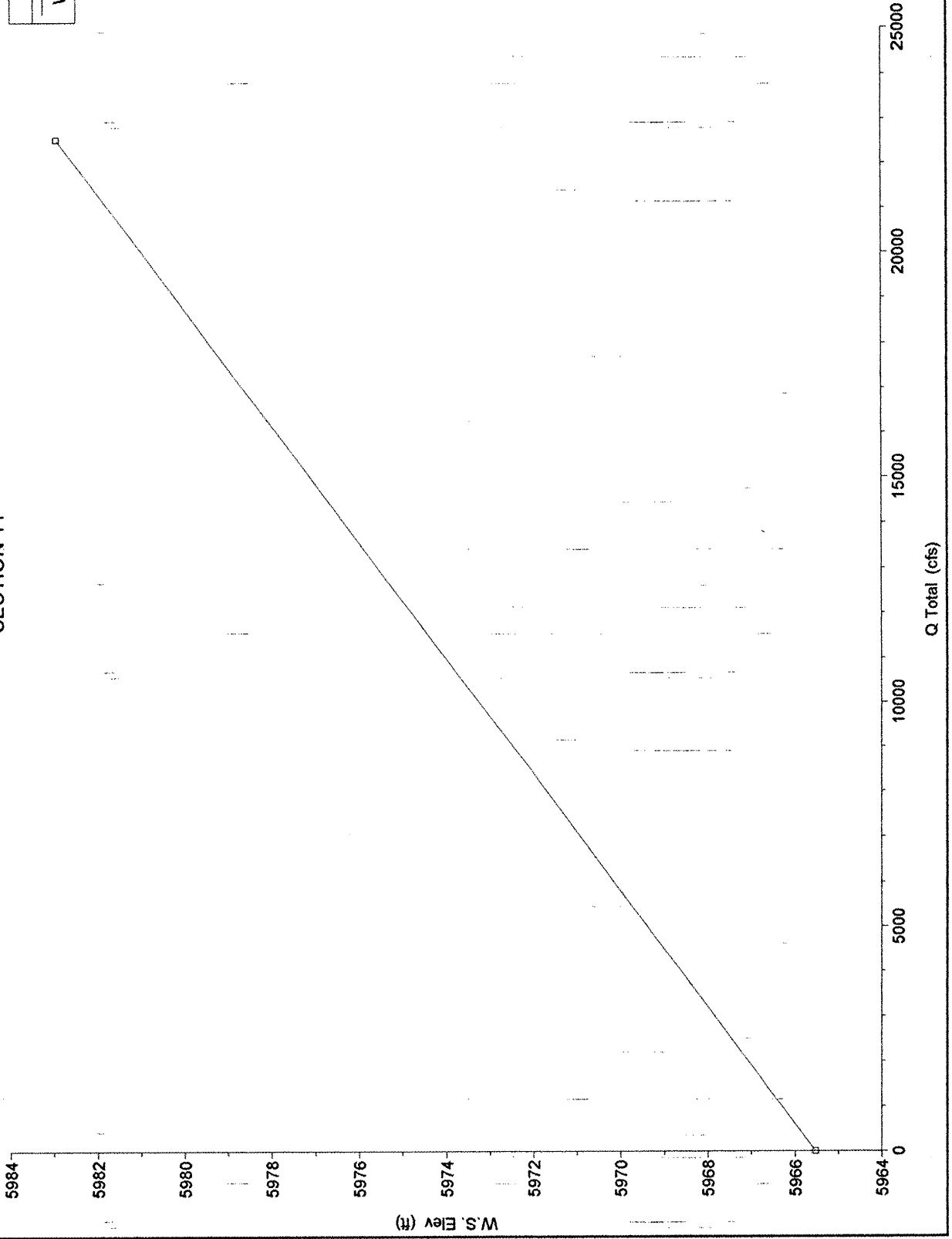
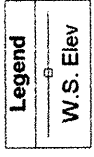


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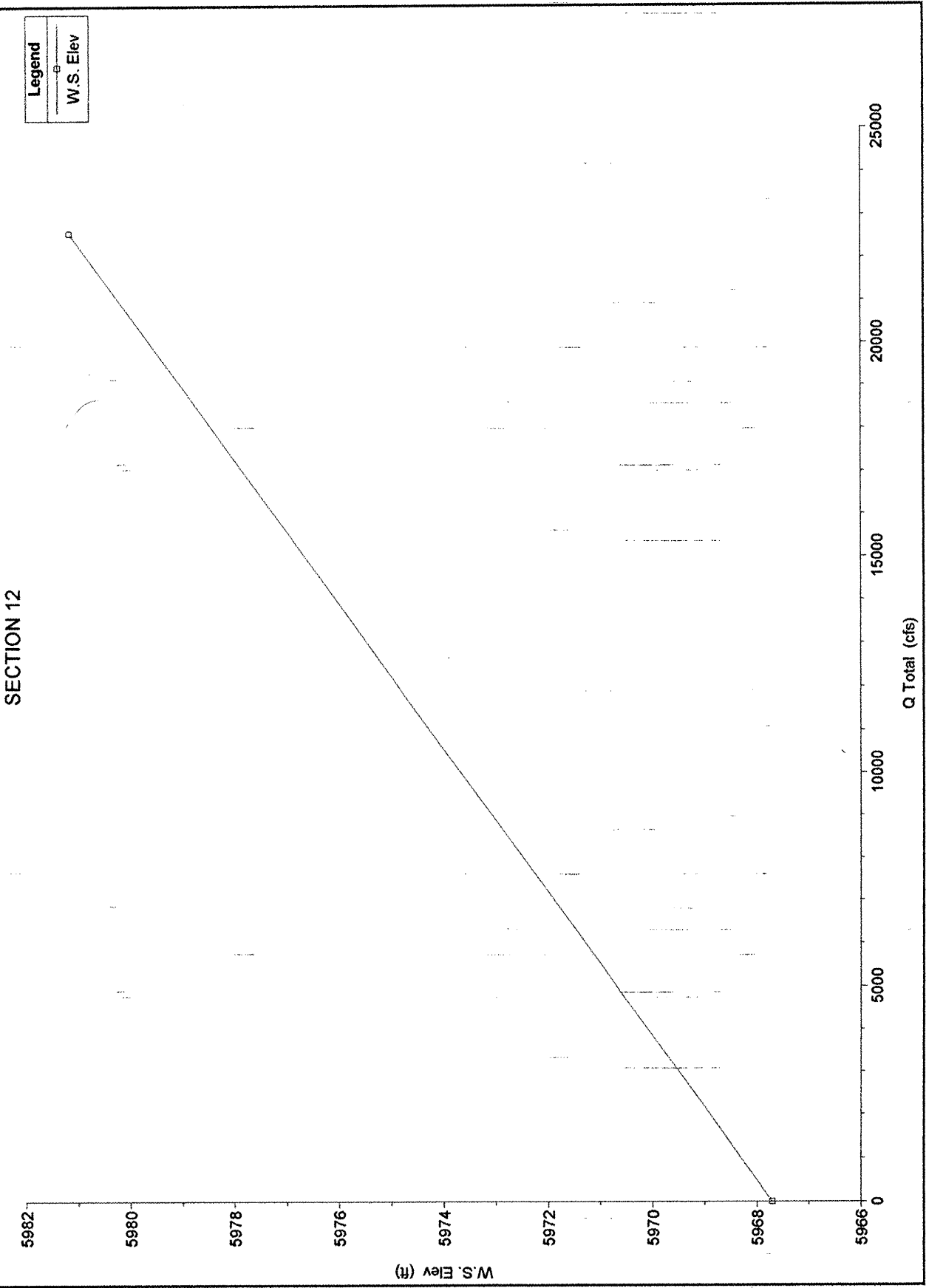
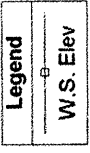
Legend	
	W.S. Elev



SECTION 11

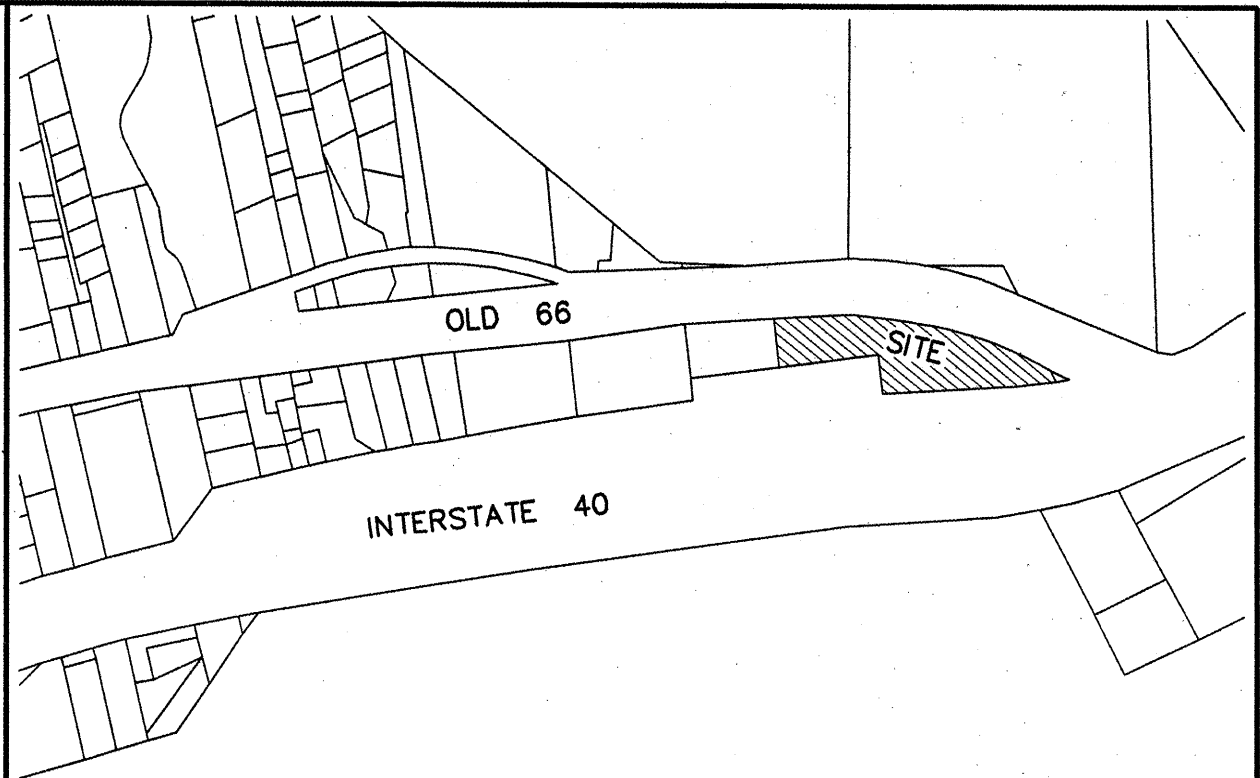
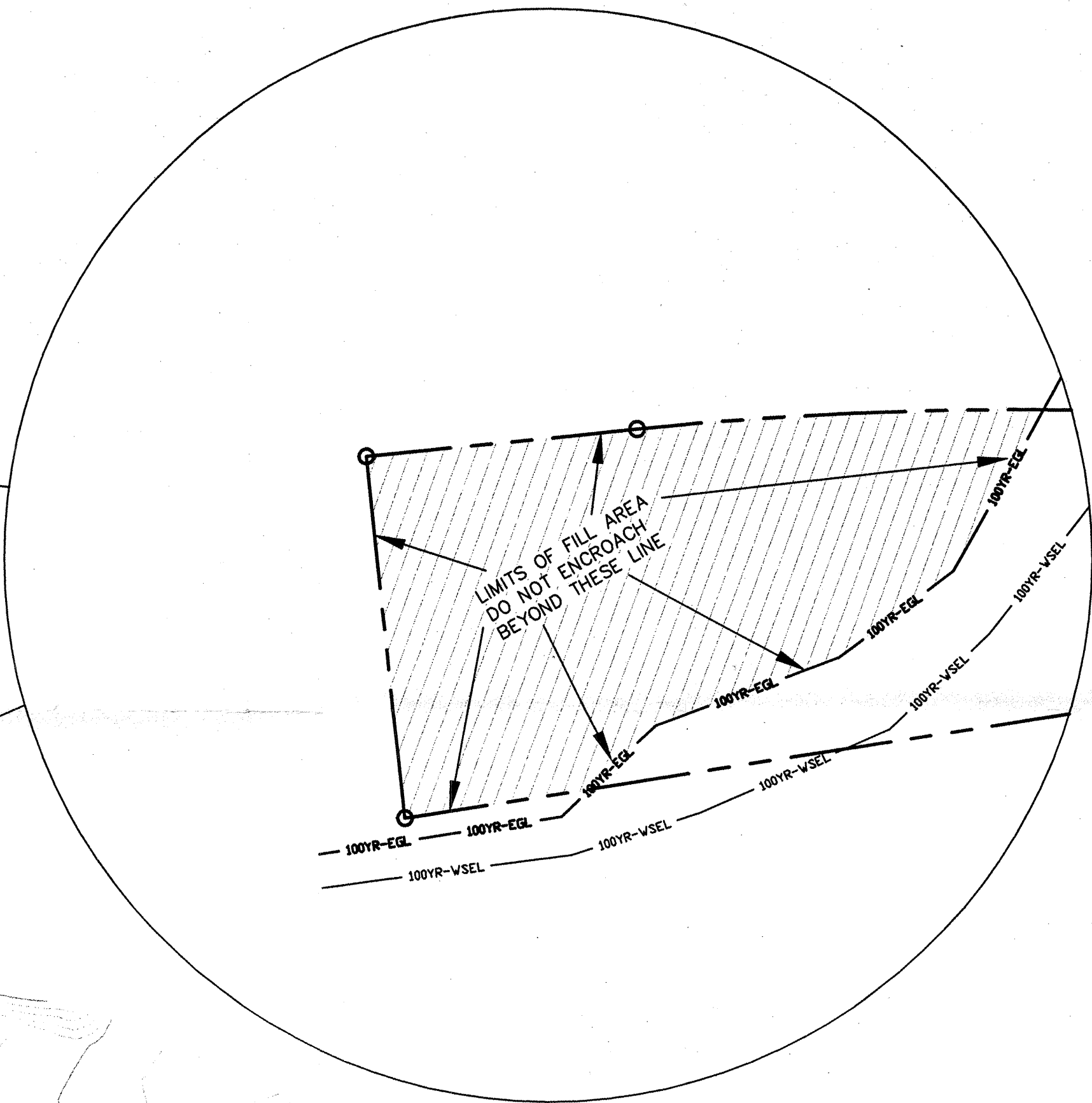
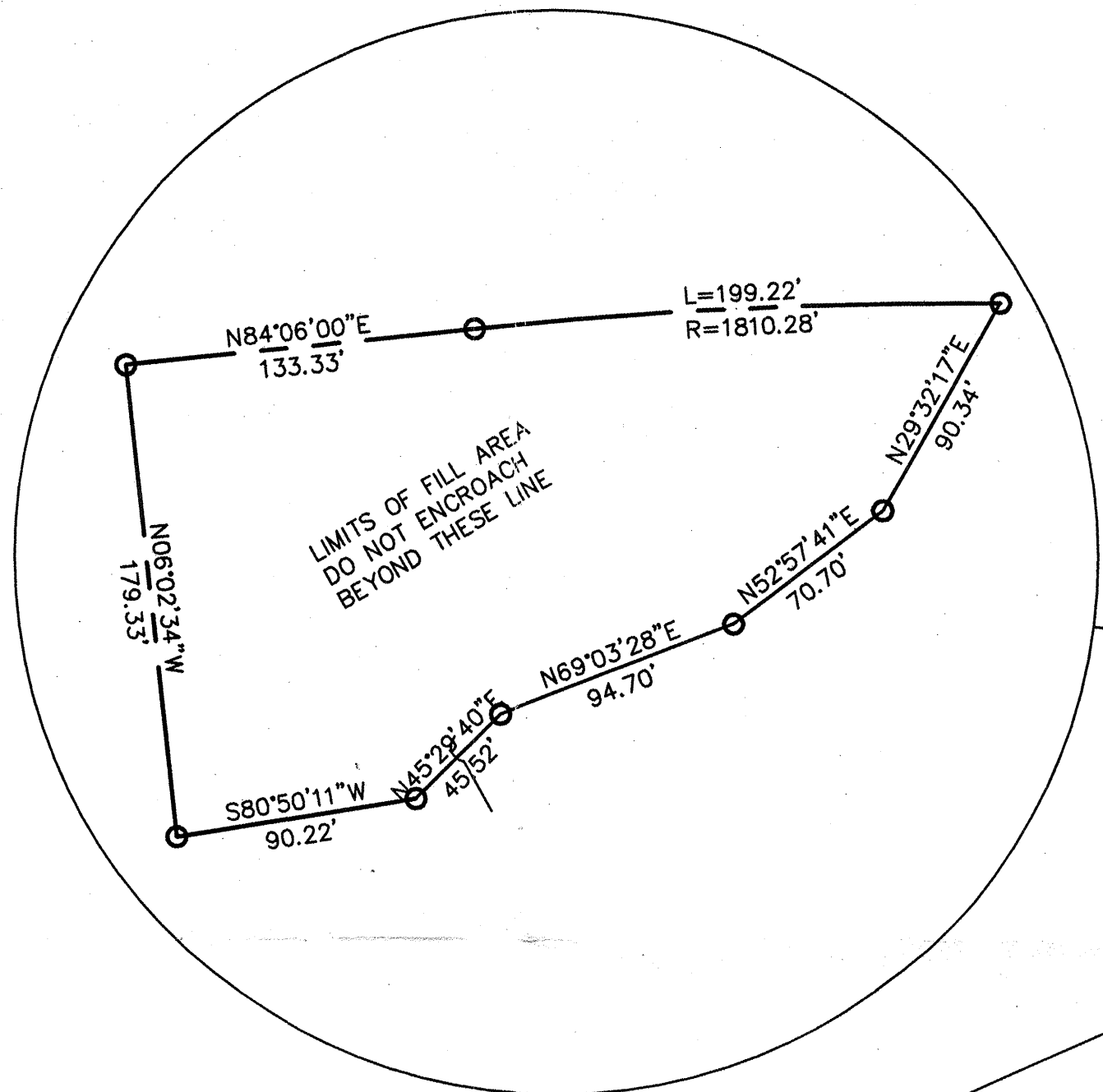


SECTION 12



EROSION CONTROL PLAN
AND POLLUTION PREVENTION NOTES

1. CONTRACTOR IS RESPONSIBLE FOR OBTAINING A TOPSOIL DISTURBANCE PERMIT PRIOR TO BEGINNING WORK.
2. CONTRACTOR IS RESPONSIBLE FOR CLEANING ALL SEDIMENT OUT OF EXISTING RIGHT-OF-WAY.
3. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ALL STORM RUNOFF ON SITE.
4. REPAIR OF DAMAGED FACILITIES AND CLEAN-UP OF SEDIMENT ACCUMULATION ON ADJACENT PROPERTIES AND IN PUBLIC FACILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR.
5. AND WATER EROSION PRIOR TO FINAL ACCEPTANCE OF ANY PROJECT.



VICINITY MAP:

L-26-Z

LEGAL DESCRIPTION:

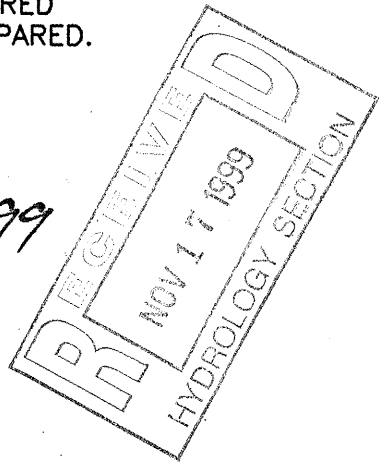
PETE RIBONI, CANON DE CARNUE GRANT
CONTAINING 4.468 ACRES MORE OR LESS.

EXISTING CONDITIONS

THE ENGINEER HAS PERSONALLY INSPECTED THE LAND,
AND NO GRADING, FILLING, OR EXCAVATION HAS OCCURRED
THEREON SINCE THE EXISTING CONTOUR MAP WAS PREPARED.

Shahab Biazar
SHAHAB BIAZAR, P.E.

11-8-99
DATE



NOTICE TO CONTRACTORS

1. AN EXCAVATION/CONSTRUCTION PERMIT WILL BE REQUIRED BEFORE BEGINNING ANY WORK WITHIN CITY RIGHT-OF-WAY. AN APPROVED COPY OF THESE PLANS MUST BE SUBMITTED AT THE TIME OF APPLICATION FOR THIS PERMIT.
2. ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED, EXCEPT AS OTHERWISE STATED OR PROVIDED HEREON, SHALL BE CONSTRUCTED IN ACCORDANCE WITH CITY OF ALBUQUERQUE INTERIM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1985.
3. TWO WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT LINE LOCATING SERVICE, 765-1234, FOR LOCATION OF EXISTING UTILITIES.
4. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL CONSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.
5. BACKFILL COMPACTION SHALL BE ACCORDING TO RESIDENTIAL STREET USE.
6. MAINTENANCE OF THESE FACILITIES SHALL BE THE RESPONSIBILITY OF THE OWNER OF THE PROPERTY SERVED.
7. WORK ON ARTERIAL STREETS SHALL BE PERFORMED ON A 24-HOUR BASIS.



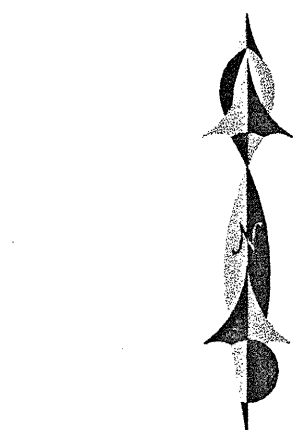
INTERSTATE 40

LEGEND

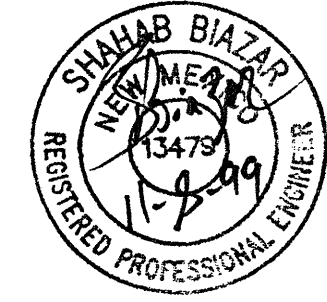
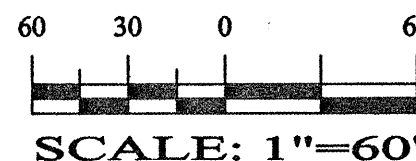
- 5005 — EXISTING CONTOUR (MAJOR)
- 5004 — EXISTING CONTOUR (MINOR)
- — — BOUNDARY LINE
- 100YR-VSEL — 100-YEAR VSEL (FROM HEC-RAS OUTPUT)
- 100YR-EGL — 100-YEAR EGL (FROM HEC-RAS OUTPUT)

GENERAL NOTES:

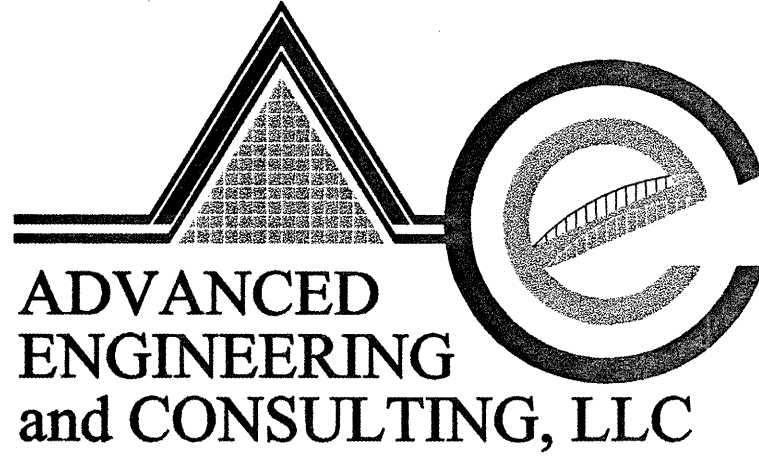
- 1: CONTOUR INTERVAL IS TWO (2) FOOT.
- 2: TOPOGRAPHY WAS PREPARED BY DIGITIZING THE TOPOGRAPHY FROM SEWER LINE STUDY FOR TIJERAS AREAS.
- 3: THIS IS NOT A BOUNDARY SURVEY, BEARINGS ARE ASSUMED, DISTANCES AND FOUND PROPERTY CORNERS ARE FOR INFORMATIONAL PURPOSES ONLY.
- 4: SLOPES ARE AT 4:1 MAXIMUM FOR THE BACKFILL.



GRAPHIC SCALE



SHAHAB BIAZAR
P.E. #13479



10205 SNOWFLAKE CT., NW
ALBUQUERQUE, NEW MEXICO 87114
(505)899-5570

LIMITS OF FILL AREA &
EXISTING FLOOD PLAIN

DRAWING:	DRAWN BY:	DATE:	SHEET #
HEC-LIMIT.DWG	SBB	11-15-99	1 OF 1

LAST REVISION: 11-15-99