Lyndon B. Johnson Space Center

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NASA-CR 167,694

RESULTS OF THE AFRSI REWATERPROOFING SYSTEMS SCREENING TEST IN THE NASA/AMES RESEARCH CENTER (ARC) 2x2-FOOT TRANSONIC WIND TUNNEL (OS-310)

SPACE SHUTTLE AEROTHERMODYNAMIC DATA REPORT

Data Management Services

Michoud Engineering Office

Chrysler Corporation

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by

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Rockwell International
Space Transportation Systems Division

Prepared under NASA Contract Number NAS9-17179

by

Data Management Services
Chrysler Military-Public Electronic Systems
Michoud Engineering Office
New Orleans, Louisiana 70189

for

Systems Engineering Division

Johnson Space Center
National Aeronautics and Space Administration
Houston, Texas

WIND TUNNEL TEST SPECIFICS:

Test Facility:	ARC 2x2-Foot
Facility Test Number:	560-1-22
NASA Series Number:	OS-310
Model Number:	126-0
Test Start Date:	November 10, 1982
Test Completion Date:	November 23, 1982
Occupancy Hours:	80

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RESULTS OF THE AFRSI REWATERPROOFING SYSTEMS SCREENING TEST IN THE NASA/AMES RESEARCH CENTER (ARC) 2x2-FOOT TRANSONIC WIND TUNNEL (OS-310)

by

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ABSTRACT

An experimental investigation was conducted in the NASA/Ames Research Center 2x2-foot Transonic Wind Tunnel from November 10 through 23, 1982 to evaluate two AFRSI rewaterproofing systems and to investigate films as a means of reducing blanket joint distortion. The wind tunnel wall slot configuration influence on the flow field over the test panel was investigated, primarily using oil flow data, and resulted in a closed slot configuration to provide a satisfactory screening environment flow field for the test. Sixteen AFRSI test panels, configured to represent the test system or film, were subjected to this screening environment (a flow field of separated and reattached flow at a freestream Mach number of 0.65 and q = 650 or 900 psf). Each condition was held until damage to the test article was observed or 55 minutes if no damage was incurred.

The data used to evaluate the candidate AFRSI configurations consisted of a comparison of the time to failure of the AFRSI panels from this test with the time to failure of previous successful AFRSI test panels. All objectives related to AFRSI rewaterproofing and to the use of films to stiffen the blanket fibers were achieved.

TABLE OF CONTENTS

INDEX OF MODEL FIGURES

INDEX OF MODEL FIGURES (Concluded)

INTRODUCTION

A sequence of environments test program was initiated in May 1982 to provide experimental data on the life of AFRSI material under expected environmental loadings. This program was designed to sequentially expose the AFRSI to wind/rain environments, aerodynamic and acoustic ascent loadings, and radiant thermal heating. This sequence simulates the loading environments encountered during each flight; on the launch pad, during lift-off, and during ascent and entry.

During the initial series of wind/rain, acoustic, and heating tests, the candidate rewaterproofing material for the AFRSI proved inadequate when subjected to entry temperatures above 1500°F. In addition, wind tunnel tests revealed that the blanket joints were easily distorted. As a result, films were being contemplated for use in stiffening the blanket ends to minimize gaps between the blankets due to ascent airloads. Some of these films were candidate rewaterproofing materials to be applied to the AFRSI.

Test OS-310 was developed in response to these findings and was conducted in the NASA/Ames Research Center 2x2-foot Transonic Wind Tunnel from November 10 through November 23, 1982. The purpose of this investigation was to evaluate two AFRSI rewaterproofing systems and to investigate films as a means of reducing blanket joint distortion. In addition, needle damage inflicted to the AFRSI during the sewing process was investigated to determine how it affected the life of the AFRSI material.

During earlier tests with the same test set-up, local flow perturbations and lack of uniformity were encountered. Oil flow visualization and pressure

calibration tests were carried out in an attempt to eliminate the local flow perturbations and obtain a more two-dimensional flow field in the test section. Various separation wedge and tunnel wall slot configurations were tested at Mach numbers ranging from 0.65 to 0.82 and dynamic pressures of 138 to 1000 psf. A reasonable simulation of two-dimensional flow was achieved.

A total of 16 AFRSI specimens were tested: nine had blanket joints while the other seven were one-piece baseline configurations. Specimen testing was accomplished at a constant Mach number of 0.65 with dynamic pressures of 650 or 900 psf. Each condition was held until damage to the test article was observed or 55 minutes if no damage was incurred.

This report contains information on the conduct of the test, details of the model and instrumentation, a summary of the test schedule and conditions, plotted and tabulated pressure data, and photographs of the AFRSI specimens tested.

NOMENCLATURE

SYMBOL	MNEMONIC	DEFINITION
CONF		Test Configuration
C_p	CP	Pressure coefficient, data
HW		Wall position
IML		Inner Moldline
M	MACH	Freestream Mach number
OML		Outer Moldline
P_∞	P	Freestream static pressure, psia
P_ℓ	PL	Local static pressure, psia
P_t	PT	Freestream total pressure, psia
q	Q	Freestream dynamic pressure, psf
R_e	RE or RN	Freestream Reynolds number, per ft
T_s	TS	Freestream static temperature, ^oR
T_t	TT or T_{T_F}	Freestream total temperature, ^oR or ^oF
V_∞	V	Freestream velocity, ft/sec
X	X	Longitudinal distance positive, inches aft of panel centerline
Y	Y	Lateral distance positive, inches right of panel centerline
ρ	RHO or RO	Freestream density, slugs/ft^3
P_{RMS}	PRMS	RMS value of the variations from the mean value of the loca pressure, psi
WH		Wedge height, inches
WL		Wedge length, inches
WX		Wedge direction position, inches

REMARKS

During run numbers 10, 30, 40, 41, 42, 43, and 50, the tunnel data acquisition and Scanivalves showed some anomalies. Attempts to clear the problem were not successful. Since the oil flow test could be achieved without the pressure data, testing was resumed without any further delay. Computer and Scanivalve problems were solved after run 43.2.

During the initial pretest calibration, 22 Kulites were available of which three were found to be defective. These were Kulite numbers 17, 22, and 204. These Kulites were replaced with Kulite numbers 19 and 21. A total of 18 Kulites were used to obtain the fluctuating acoustic data during the calibration runs.

Data from a previous test (OS-301) in the ARC 2x2-foot TWT showed a lack of flow symmetry and regions of concentrated turbulence over the AFRSI test panels. In response to these conditions, visualization tests were conducted during Test OS-301 which showed a cross flow on the panels. This cross flow was apparently caused by air from the plenum chamber being drawn into the test section by the action of the low pressure field created by the presence of the separation wedge. For this reason, thorough oil flow and calibration runs were conducted during Test OS-310 and a satisfactory screening environment was achieved by mechanically backing all wall slots.

CONFIGURATIONS INVESTIGATED

The configurations used in this test did not duplicate any geometric surface of the Space Shuttle orbiter. A test article holding fixture, used during previous tests, was mounted in the tunnel's movable wall. The fixture, Model 115-0, was modified so that it would place the test articles in the center of the test section. During Test OS-310, the tunnel's movable wall was kept in the flush position (HW=0). The porosity of two of the tunnel surfaces was controllable. The other two had no provisions for any porosity. Four wedges were used to disturb the tunnel flow. All wedges had a 45-degree ramp to the flow. Three different wedge heights were used, 0.5, 1.0, and 1.5 inches. One wedge had a length of 23.6 inches, all the others were 20.75 inches long. The wedges were positioned at either X = -11.9 inches or X = -16.4 inches.

A dummy panel with grid marking was used during the oil flow portion of Test OS-310. Another dummy panel with instrumentation installed was used to calibrate the pressure distribution in the area of the test articles.

Sixteen test articles were used during this test. Each had an exposed surface of 15.5 x 12.5 inches and was mounted flush to the tunnel wall in the holding fixture. A description of each panel is presented in Table III.

INSTRUMENTATION

Data for Test OS-310 consisted of time averaged and fluctuating pressure measurements.. The 32 static pressure orifices in the fixture were used during the entire test. Fifteen additional orifices were used with the calibration panel.

Twelve Kulite transducers in the fixture were also used during the entire test. The calibration panel contained 22 additional Kulite transducers.

The locations of all this instrumentation are shown in Figure 1.

TEST FACILITY

The ARC 2x2-foot wind tunnel was used for these tests. The tunnel is of the continuous flow type with variable porosity test section walls surrounded by a plenum chamber. Mach number is continuously variable over the range from 0.6 to 1.4 and dynamic pressure is continuously variable over the range from 200 to 1500 psf.

The tunnel can be operated so that one section of the side wall moves up to 1.4 inches into the airstream. The upstream edge of the movable wall is a sharp edged splitter plate which scoops off all or part of the tunnel sidewall boundary layer. It is possible to position the wall to achieve a boundary layer thickness from 0.25 to 1.0-inch in the panel test region.

TEST PROCEDURE

The test was conducted in three parts. First, a study was made, using oil, to define the surface flow pattern. The tunnel's wall porosity, Mach, and dynamic pressure were varied. The flow separator wedge height, length, and X-station were also varied.

After a usable flow field was found, an instrumented calibration panel was installed in the tunnel. The time-averaged pressures and the acoustic pressures were recorded for various tunnel and wedge conditions. When the proper environments had been defined, the test articles were inserted into the fixture and run. A detailed run schedule is presented in Table II.

DATA REDUCTION

Standard tunnel equations were used to compute all tunnel conditions.

The time-averaged pressure data was recorded and reduced to standard coefficient form by the facility using:

$$C_p = (P_\ell - P_\infty) \times 144/q$$

Plots of this data are presented in Figures 4 through 8. This data is tabulated in Appendix A.

Fluctuating acoustic pressure data was recorded on magnetic tape, then played back so that the Vibration and Acoustics group could analyze the data. The data was converted to dB's using:

$$dB = 10 \log_{10}\left(\frac{P_{RMS} \times 10^9}{2.9007}\right)^2$$

Representative data are presented in Figures 9 and 10.

REFERENCES

1. STS82-0762, "Pretest Information for AFRSI Rewaterproofing Screening Test OS-310 in the Ames Research Center (ARC) 2x2-foot Transonic Wind Tunnel" (October 1982)

2. V&A-280-301-83-021, "Wind Tunnel Environments Obtained for AFRSI Rewaterproofing Screening Test OS-310 Conducted in the ARC 2x2-foot Transonic Wind Tunnel" (March 22, 1983)

TABLE I

TEST CONDITIONS

Number	Reynolds Number (Per Ft x 10^{-6})	Dynamic Pressure PSF	Stagnation Temperature Deg F
0.3	2.17	140	80
0.4	2.67	225	80
0.5	3.15	325	80
0.6	3.53	425	80
0.6	4.77	575	80
0.6	6.02	725	80
0.6	7.05	850	80
0.6	8.30	1000	80
0.65	3.73	480	80
0.65	5.05	650	80
0.65	6.22	800	80
0.65	7.00	900	80
0.65	7.77	1000	80
0.7	3.96	540	80
0.7	5.13	700	80
0.7	5.87	800	80
0.7	6.60	900	80
0.75	4.18	600	80
0.75	4.52	650	80
0.75	5.40	775	80
0.75	6.96	1000	80
0.8	4.25	640	80
0.85	4.20	660	80
0.85	6.37	1000	80

TABLE II

AMES 2x2 — Project 560-1-22

TEST: OS-310 — DATA SET/RUN NUMBER COLLATION SUMMARY — DATE:

date	run no.	CONFIGURATION	WH	Mach	"Hg P_t	"Hg P_s	PSF Q	temp °F	wedge~ in. WHT	WLT	WX	remarks
	10	OIL FLOW	0	.814	ATM	19.34	-	98.0	Y	23.6	-16.4	*
	30	OIL FLOW	0	.744	29.92	20.63	-	103	Y	23.6	-16.4	**
	40-6	OIL FLOW + KULITES	0	.750	30.15	20.77	572.7	85.0	Y	23.6	-16.4	Porosity bars closed. No tape in tunnel.
	41-2		0	.752	34.70	23.85	667.6	113.8	Y	23.6	-16.4	
	42		0	.818	30.03	19.39	-	95.2	Y	23.6	-16.4	Porosity bars open ≈0.025" (no tape)
	43-3		0	.826	30.21	19.32	651.9	105.8	Y	23.6	-16.4	
	50 51 52-3		0	.757	35.25	24.10	684.5	110.5	Y	23.6	-11.9	Porosity bars closed.
	54-3	OIL FLOW + KULITES MACH SWEEP	0	.314	30.33	28.32	138.4	70.9	Y	20.8	-16.4	
	55-1		0	.409	30.33	27.03	223.4	70.7	Y	20.8	-16.4	
	56-1		0	.508	30.35	25.44	324.8	71.9	Y	20.8	-16.4	
	57-1		0	.605	30.39	23.73	430.1	75.1	Y	20.8	-16.4	
	58-1		0	.705	30.36	21.80	535.8	77.6	Y	20.8	-16.4	
	59-1		0	.774	30.38	20.45	606.8	96.7	Y	20.8	-16.4	
	60-1		0	.708	29.95	28.69	709.3	90.4	Y	20.8	-16.4	
	61-62-1		0	.704	30.08	25.93	882.3	94.3	Y	20.8	-16.4	

TEST RUN NUMBERS

0 7 13 19 25 31 37 43 49 55 61 67 75 78

WH = Wall Height

WHT = y = 1.5" flow separator

x = 1.0" flow separator

z = 0.5" flow separator

*Tunnel Floor & Ceiling Tape 50% Span

** Tunnel Tape 50% Span Top and Bottom Plus Porosity Bars Top and Bottom Closed.

AMES 2x2

TEST: OS-310

Project 560-1-22

DATE:

DATA SET/RUN NUMBER COLLATION SUMMARY

date	run no.	CONFIGURATION	WH	Mach	"Hg Pt	"Hg Ps	PSF Q	temp T °F	wedge~ in. WHT	WLT	WX	remarks
	64-6	OIL FLOW + KULITES	0	.606	30.02	23.42	425.9	60.3	Y	23.6	-16.4	Porosity bars closed.
	65-1		0	.607	40.38	31.50	573.6	65.7	Y	23.6	-16.4	
	66-1		0	.611	50.56	39.28	727.1	70.9	Y	23.6	-16.4	
	68-1		0	.604	60.64	47.40	855	77.3	Y	23.6	-16.4	
	69-1		0	.605	70.35	54.95	994.9	82.7	Y	23.6	-16.4	
	70-2		0	.657	30.05	22.49	480.2	69.9	Y	23.6	-16.4	
	71-1		0	.653	40.69	30.55	644.3	75.4	Y	23.6	-16.4	
	72-1		0	.654	50.50	37.90	807.0	81.3	Y	23.6	-16.4	
	73-1	↓	0	.651	63.31	47.60	1001	85.3	Y	23.6	-16.4	
	78-2	CALIBRATION PANEL	0	.651	30.09	22.62	475.3	69.9	Y	23.6	-16.4	
	79-1		0	.658	40.90	30.97	640.8	68.4	Y	23.6	-16.4	
	80-1		0	.652	50.04	37.61	792.6	76.5	Y	23.6	-16.4	
	81-1		0	.651	62.97	47.36	993.8	81.5	Y	23.6	-16.4	
	82-1	↓	0	.653	49.95	37.50	792.3	83.0	Y	23.6	-16.4	

TEST RUN NUMBERS

1 7 13 19 25 31 37 43 49 55 61 67 75 76

WW = Wall Height

WHT = y = 1.5" flow separator

x = 1.0" flow separator

z = 0.5" flow separator

AMES 2x2 — Project 560-1-22

TEST: CS-310 — DATA SET/RUN NUMBER COLLATION SUMMARY — DATE:

date	run no.	CONFIGURATION	hw	sw		Mach	"Hg P_t	"Hg P_s	PSF Q	temp °F	time min.	wedge~ in. WHT	WLT	WX	remarks
	83-1	CALIBRATION PANEL	0			.825	30.03	19.21	647.2	79.7		X	20.8	-16.4	Tunnel blockage
	84-1		0			.750	30.06	20.71	576.0	78.4		X	20.8	-16.4	dropped 0.1 of a Mach
	85-2		0			.752	40.0	27.5	771.4	82.6		X	20.8	-16.4	Porosity bars closed.
	86-2		0			.750	52.50	36.16	1008	87.8		X	20.8	-16.4	
	87-3		0			.849	29.99	17.30	668.2	78.7		Z	20.8	-16.4	
	88-2		0			.851	39.94	22.99	1003	85.9		Z	20.8	-16.4	
	89-1		0			.848	45.21	28.25	1004	89.4		Z	20.8	-16.4	
	100-10	TEST PANEL #2	0			.652	41.32	31.05	653.9	86.4	55	Y	23.6	-16.4	(control panel)
	101	#2	0			.652	63.95	47.92	950	86.5	9	Y	23.6	-16.4	Porosity bars closed
	102-18	#1	0			.652	57.22	42.63	901.9	89.8	21	Y	23.6	-16.4	
	103-6	#1-C	0			.650	57.24	43.11	901.3	88.7	9	Y	23.6	-16.4	
	104-5	#11	0			.653	57.07	42.84	904.5	82.8	2	Y	23.6	-16.4	
	105-1	#12	0			.651	57.19	43.02	902.1	84.8	2	Y	23.6	-16.4	
	106*	#1-C	0			.645	51.33	45.0	900	76.4	3	Y	23.6	-16.4	
	107-1	#13	0			.652	57.33	43.08	907.1	83.2	5	Y	23.6	-16.4	

TEST RUN NUMBERS

* Run 106, 3 min. from air on to shotdown. Not on condition. Panel #1-C was repaired and coated.

1 61 67 73 76

hw = Wall Height

WHT = y = 1.5" flow separator

x = 1.0" flow separator

z = 0.5" flow separator

Note: Time-cumulative minutes on-condition.

AMES 2x2 Project 560-1-22

TEST: OS-310

DATA SET/RUN NUMBER COLLATION SUMMARY

DATE:

date	run no.	CONFIGURATION	hw	sw		Mach	"Hg P_t	"Hg P_s	PSF Q	temp °F	time min.	wedge~ in. WHT	WLT	WX	remarks
	108-4	TEST PANEL #2-C	0			.654	57.15	42.87	900.9	90.5	8	Y	23.6	-16.4	Porosity bars closed
	109-17	#8	0			.650	35.64	31.09	650.5	89.2	37	Y	23.6	-16.4	
	110-4	#14	0			.652	52.09	42.89	903.5	83.8	10	Y	23.6	-16.4	
	111-3	#16	0			.654	57.25	42.96	909	84.0	5.5	Y	23.6	-16.4	
	112-12	#2-C	0			.650	57.16	43.02	901	94.9	28	Y	23.6	-16.4	
	113-10	#15	0			.651	57.14	43.0	902.7	94.9	21.5	Y	23.6	-16.4	
	114-7	#3	0			.651	41.27	31.04	651.8	85.2	14	Y	23.6	-16.4	
	115-6	#4	0			.652	41.27	31.02	653.4	80.2	56	Y	23.6	-16.4	
	116-2	#5	0			.652	41.35	31.07	654.1	78.0	26	Y	23.6	-16.4	
	117-2	#6	0			.651	41.37	31.11	653	70.2	14	Y	23.6	-16.4	
	118-2	#7	0			.654	41.45	31.09	658.7	71.0	10.5	Y	23.6	-16.4	

TEST RUN NUMBERS

7 13 19 25 31 37 43 49 55 61 67 75 78

!W = Wall Height

WHT = y = 1.5" flow separator

x = 1.0" flow separator

z = 0.5" flow separator

TABLE III

Date	T/A	Needle Damage	Joint	Rewater-proofing	Thermal # of Cycles	Test Condition	Time Min. On-condition	Notes
11-16-82	2	Not per spec Moderate	Yes	No	No	M=0.65 Q=650 psf	55	Some thread failure
11-17-82	2	Not per spec Moderate	Yes	No	No	M=0.65 Q=950 psf	9	Fabric frays along stitch-line almost to failure (fwd and aft areas)
11-17-82	1	Not per spec Moderate	No	No	No	M=0.65 Q=905 psf	21	Fabric failure (aft corner)
11-17-82	1-C	Minimal	No	No	No	M=0.65 Q=901 psf	9	Premature shutdown due to fabric frays along T.E. Fabric at T.E. pulling out from frame. Will coat damage areas, then put back into tunnel.
11-17-82	11	Not per spec Moderate	Yes	Z6079 + Acrylic Film	400; 1500 (1)	M=0.652 Q=90[illegible] psf	2	Fabric/thread failure (fwd center)
11-17-82	12	Yes	Yes	Z6079 + Acrylic Film	600; 1500 (1)	M=0.651 Q=902 psf	2	Fabric failure along stitch-line (total aft end)
11-18-82	1-C	Minimal	No	No	No	M=0.645 Q=900 psf	0	Damaged area from previous run, failed before obtaining tunnel conditions. 3 min. from air on to shutdown.

TABLE III (Continued)

Date	T/A	Needle Damage	Joint	Rewater-proofing	Thermal # of Cycles	Test Condition	Time Min. On-condition	Notes
11-18-82	13	Minimal	No	Z6079 + Acrylic Film	800; 1500 (5)	M=0.650 Q=900 psf	5	Pad puffed significantly prior to failure, due to major thread damage. (Total aft end)
11-18-82	2-C	Minimal	Yes	No	No	M=0.655 Q=910 psf	8	Shutdown prematurely due to fabric fray. Will coat damage area, then retest.
11-18-82	8	Not to spec Moderate	Yes	Z6079 + Acrylic Film	800; 1500 (5)	M=0.652 Q=655 psf	37	Failure initiation adjacent to stitch row significance puffing prior to failure. Pad had W/P exposure. (forward center)
11-19-82	14	Minimal	No	Z6079 + Acrylic Film	1000; 1500 (9)	M=0.650 Q=900 psf	10	Major thread breakage; puffing of pad prior to failure, fabric pulled out from TE frame contributing to failure.
11-19-82	16	Broken yarns Sidewall Minimal	Yes	No	No	M=0.650 Q=900 psf	5.5	Fabric failure did not occur on sidewall. Sidewall looks good. Failure occurred adjacent to stitchline. (Mid edge)
11-19-82	2-C	Slight	Yes	No	No	M=0.650 Q=901 psf	28	Fabric failure did not occur on sidewall. (Aft side & edge)
11-19-82	15	Moderate	Yes	No	No	M=0.654 Q=902 psf	22	Fabric failure adjacent to stitchline. (Aft center)

TABLE III (Concluded)

Date	T/A	Needle Damage	Joint	Rewater-proofing	Thermal # of Cycles	Test Condition	Time Min. On-condition	Notes
11-19-82	3	Yes	Yes	No	200; 1500 (1)	M=0.653 Q=652 psf	14	Thread breakage caused failure. (Aft center)
11-22-82	4	Yes	Yes	Silane Z6079	400; 1500 (1)	M=0.653 Q=654 psf	56	No mileage. Thread breakage and slight puffing.
11-22-82	5	Yes	Yes	Silane Z6079	600; 1500 (1)	M=0.654 Q=654 psf	26	Thread failure caused blanket failure. Significant puffing prior to failure. (Aft center)
11-22-82	6	Not per spec Moderate	No	Silate Z6079	800; 1500 (5)	M=0.651 Q=653 psf	14	Thread breakage caused failure. T.E. Fabric on verge of pulling out from frame. (Aft corner)
11-23-82	7	Per spec. Minimal	No	Silane Z6079	1000; 1500 (7)	M=0.650 Q=653 psf	10.5	Thread breakage caused failure. (Trailing edge)

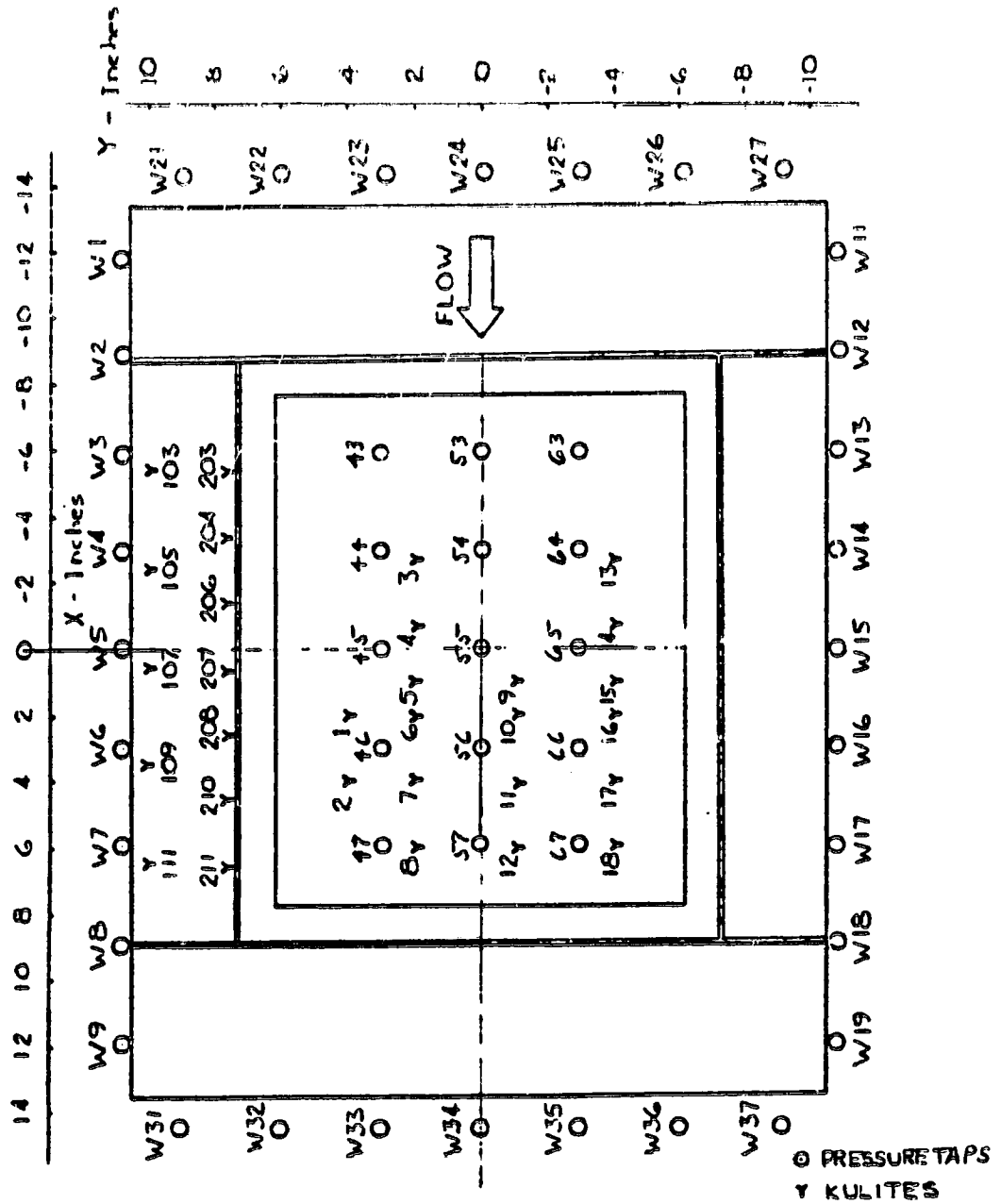


Figure 1. INSTRUMENTATION LOCATION

Figure 2.a Run 10 M = 0.81 Pt=29.92 in. Hg q=633 psf
Tunnel floor and ceiling taped 50% span.
WH=1.5 WL=23.6 WX=16.4

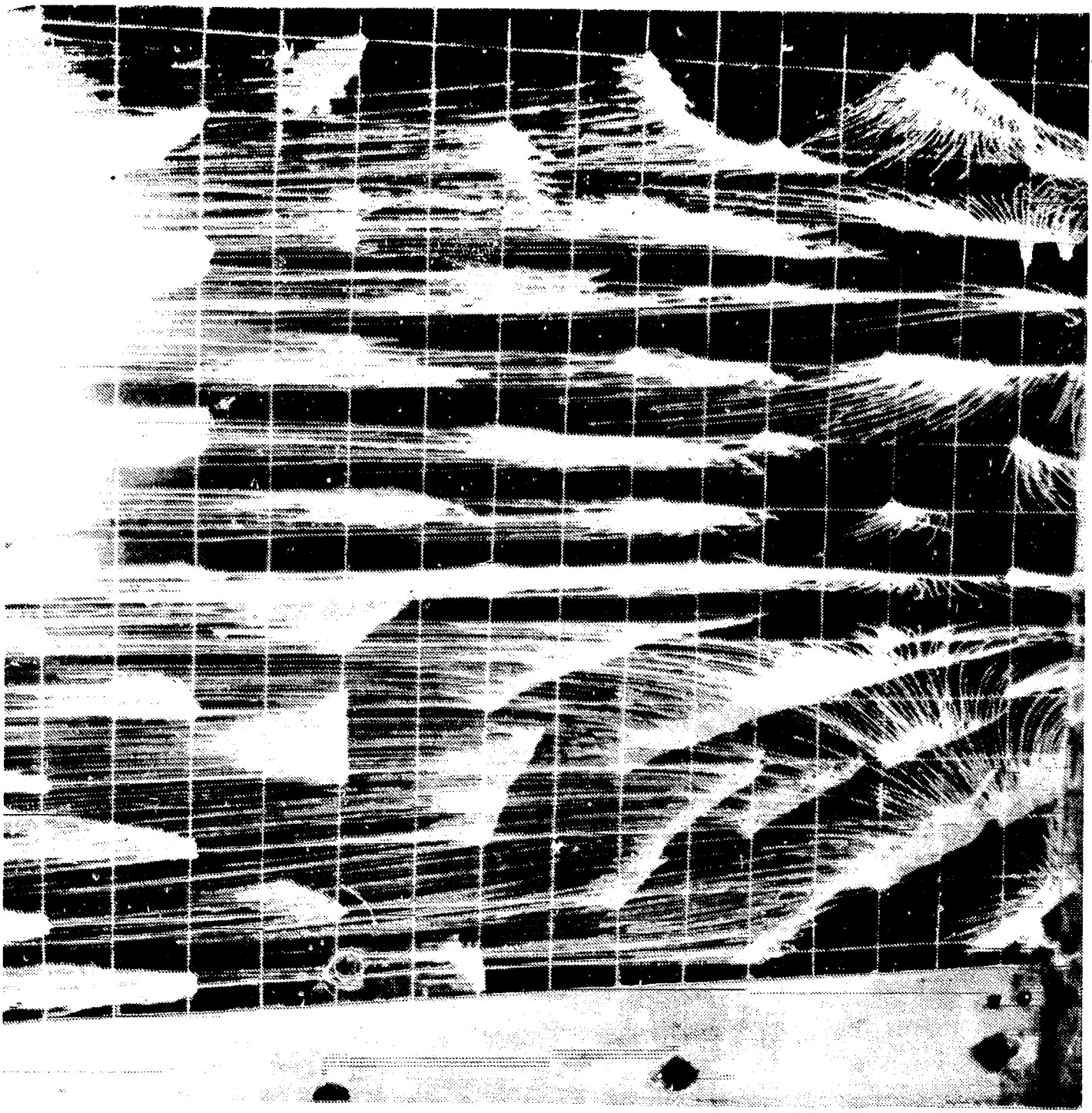


Figure 2.b Run 30 M=0.74 P_T=29.99 q=568

Tunnel taped 50% span top and bottom; porosity bars closed top and bottom.

WI=1.5 WL=23.6 WX=16.4

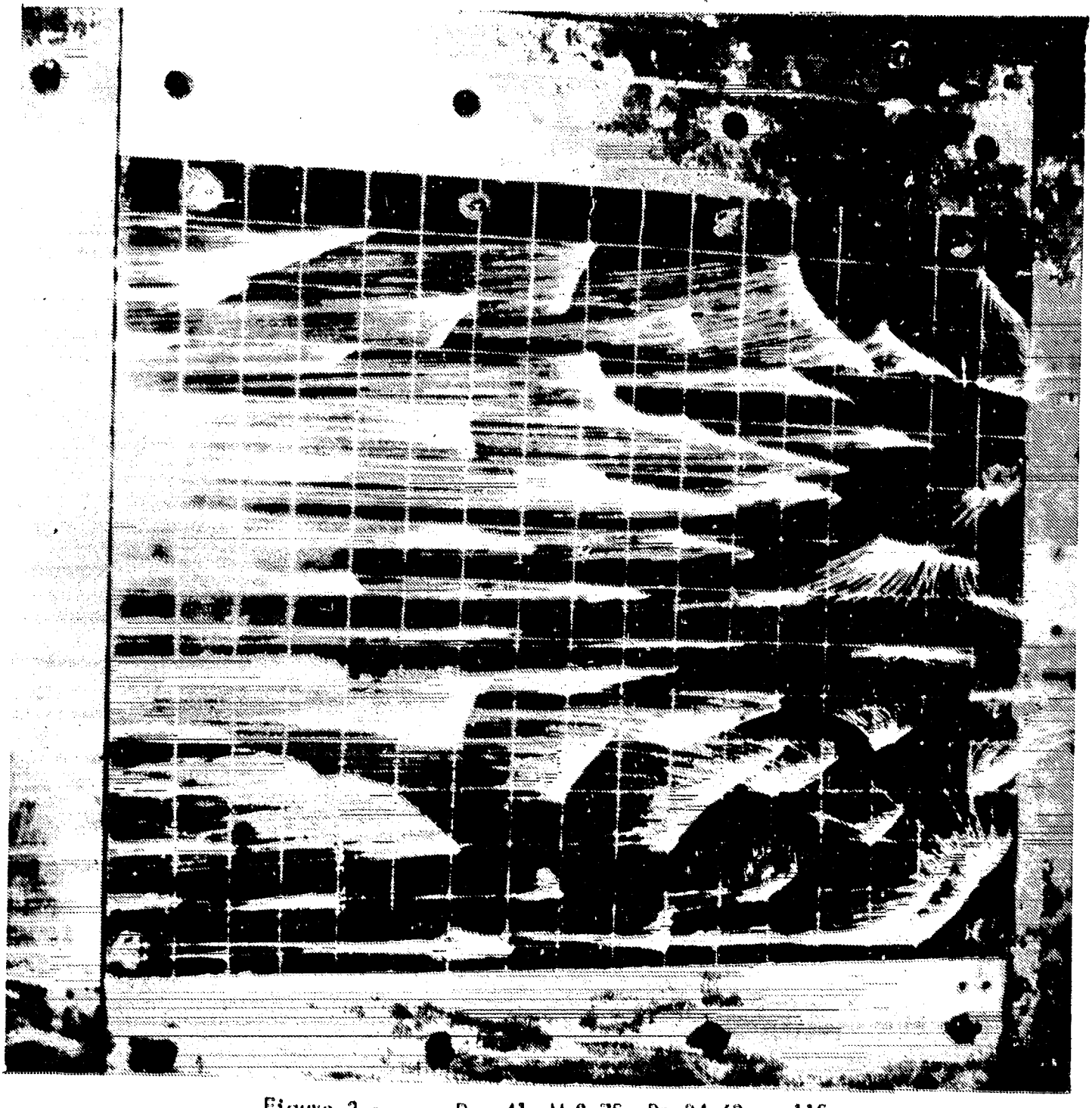


Figure 2.c Run 41 M=0.75 P_T=34.63 q=115
Porosity bars closed top and bottom.
WH=1.5 WL=23.6 WX=-16.4

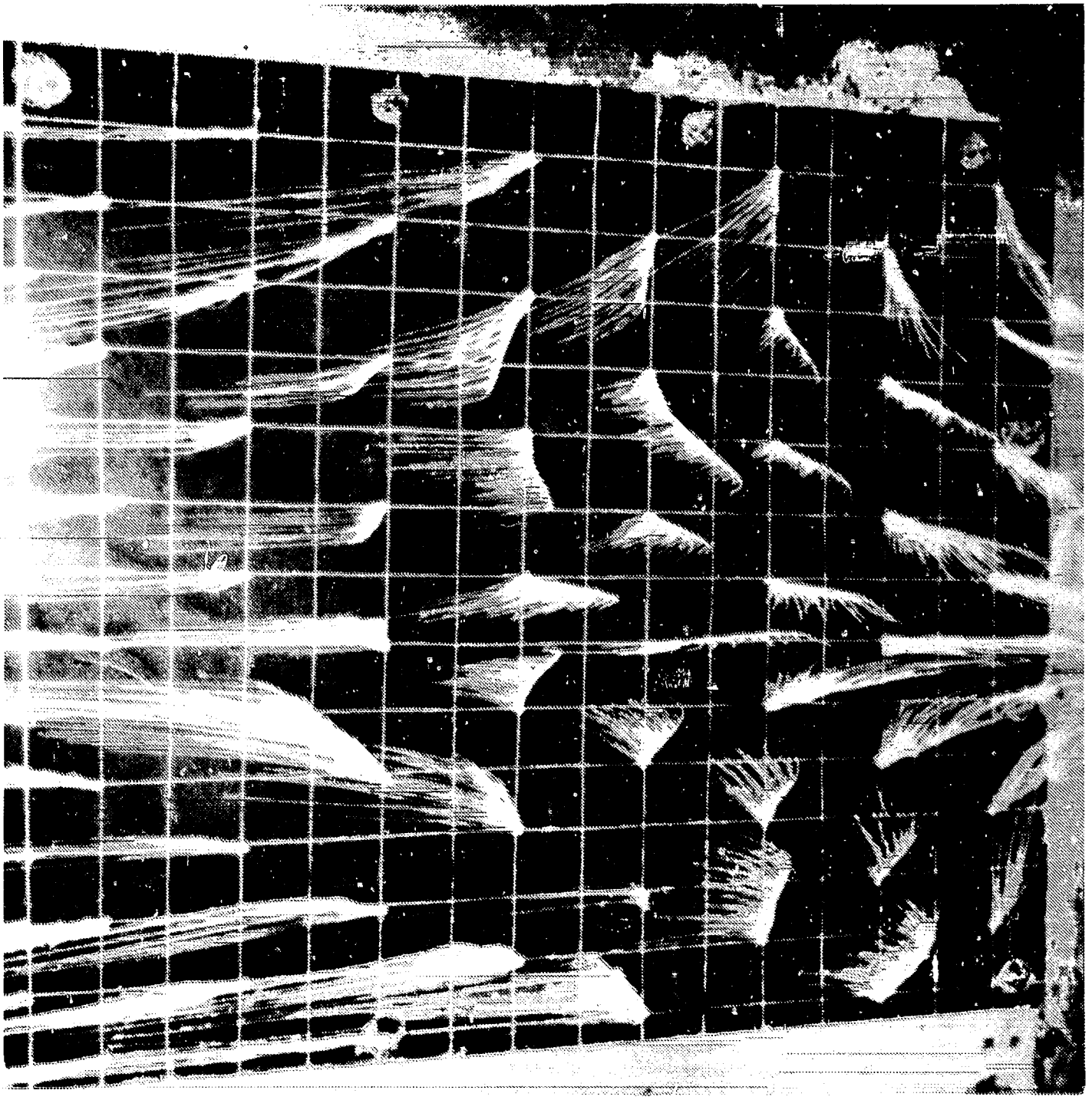


Figure 2.d Run 43 M=0.83 P_T=34.97 q=106
Porosity bars open 0.025 inch top and bottom.
WH=1.5 WL=23.C WX=-16.4

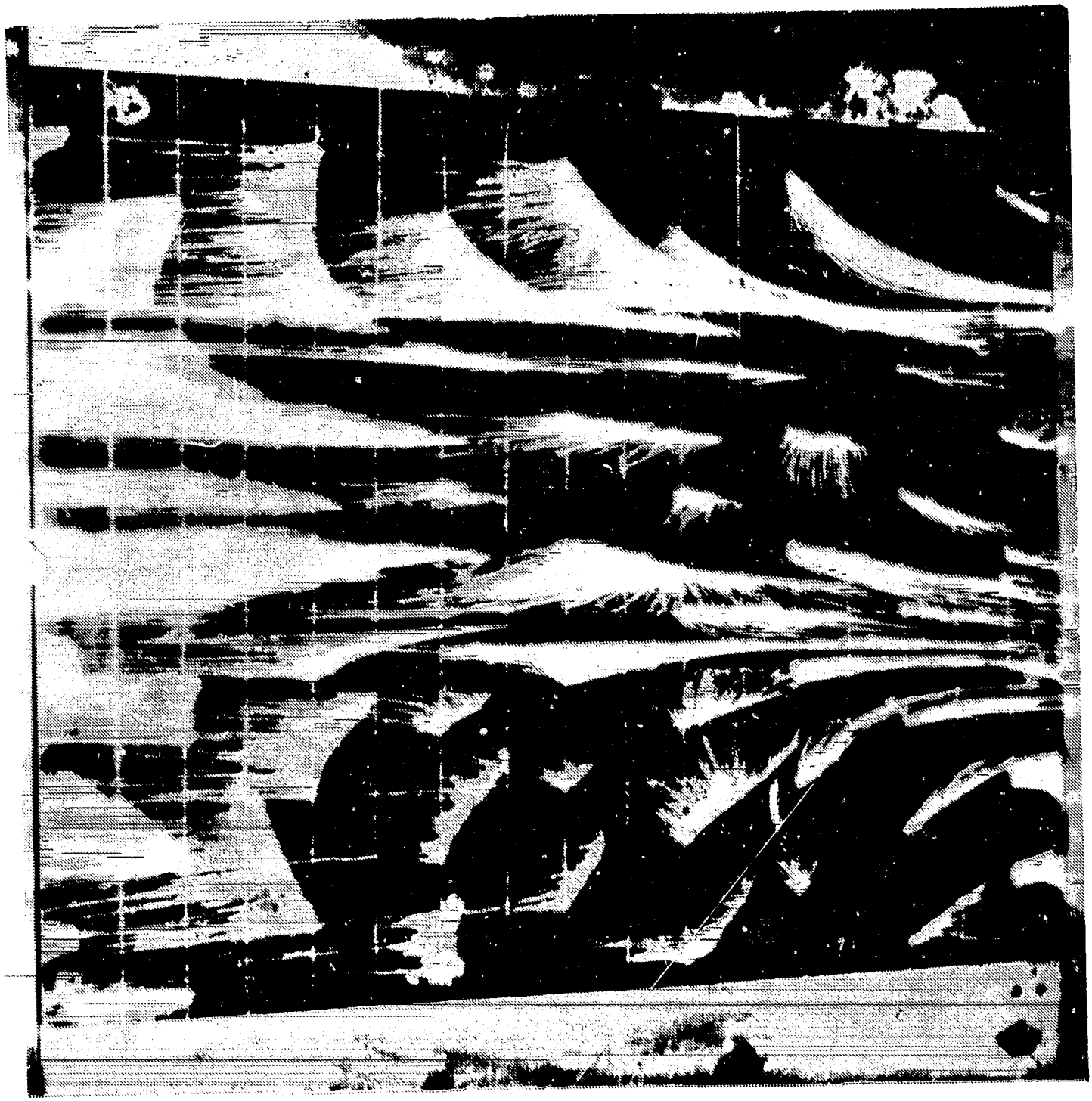


Figure 2.e Run 51 M=0.75 P_T=29.8 q=1000
Run 52 M=0.75 P_T=35.3 q=1010

After Runs 51 and 52, porosity bars closed top and bottom.

WH=1.5 WL=23.6 WX=11.9

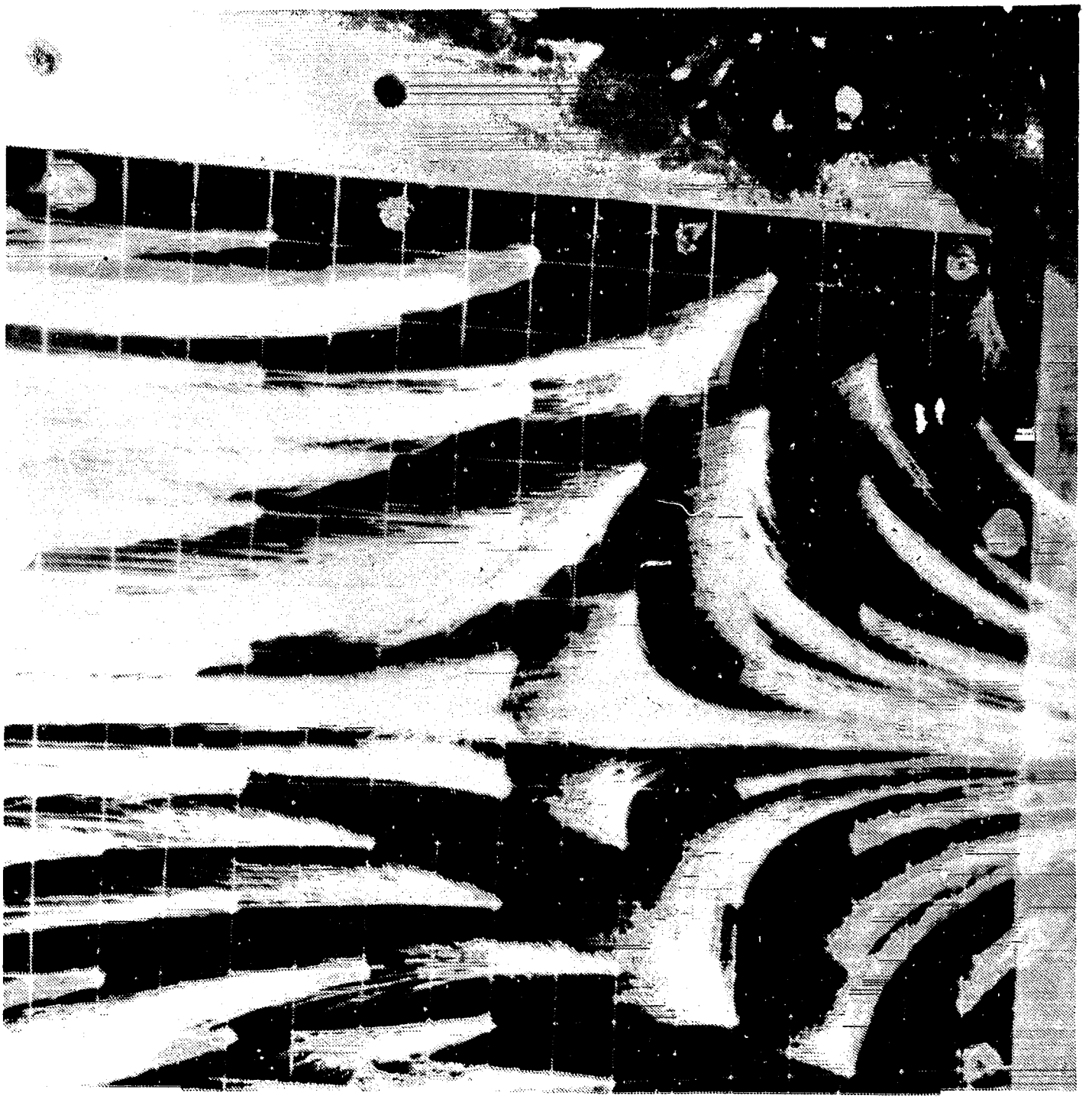


Figure 2.f Runs 54→62 M=0.30→0.77 P_T=30→44 q=140→880
Porosity bars closed top and bottom.
WH=1.5 WL=20.8 WX=16.4

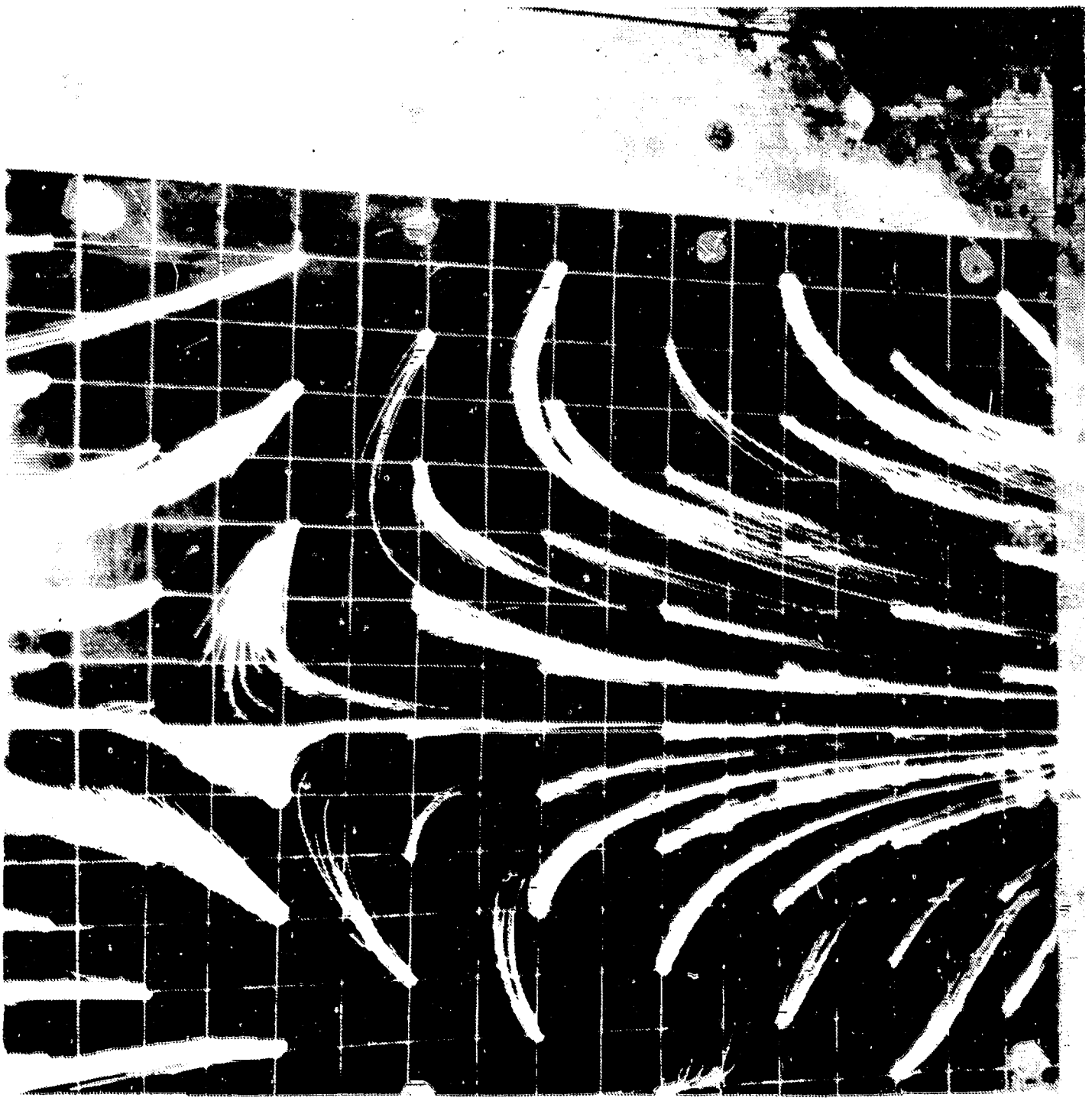


Figure 2.g Runs 64→69 M=0.6 P_T=30→70 q=425→1000
(No Run 67)

Porosity bars closed top and bottom.

WH=1.5 WL=23.6 WX=-16.4

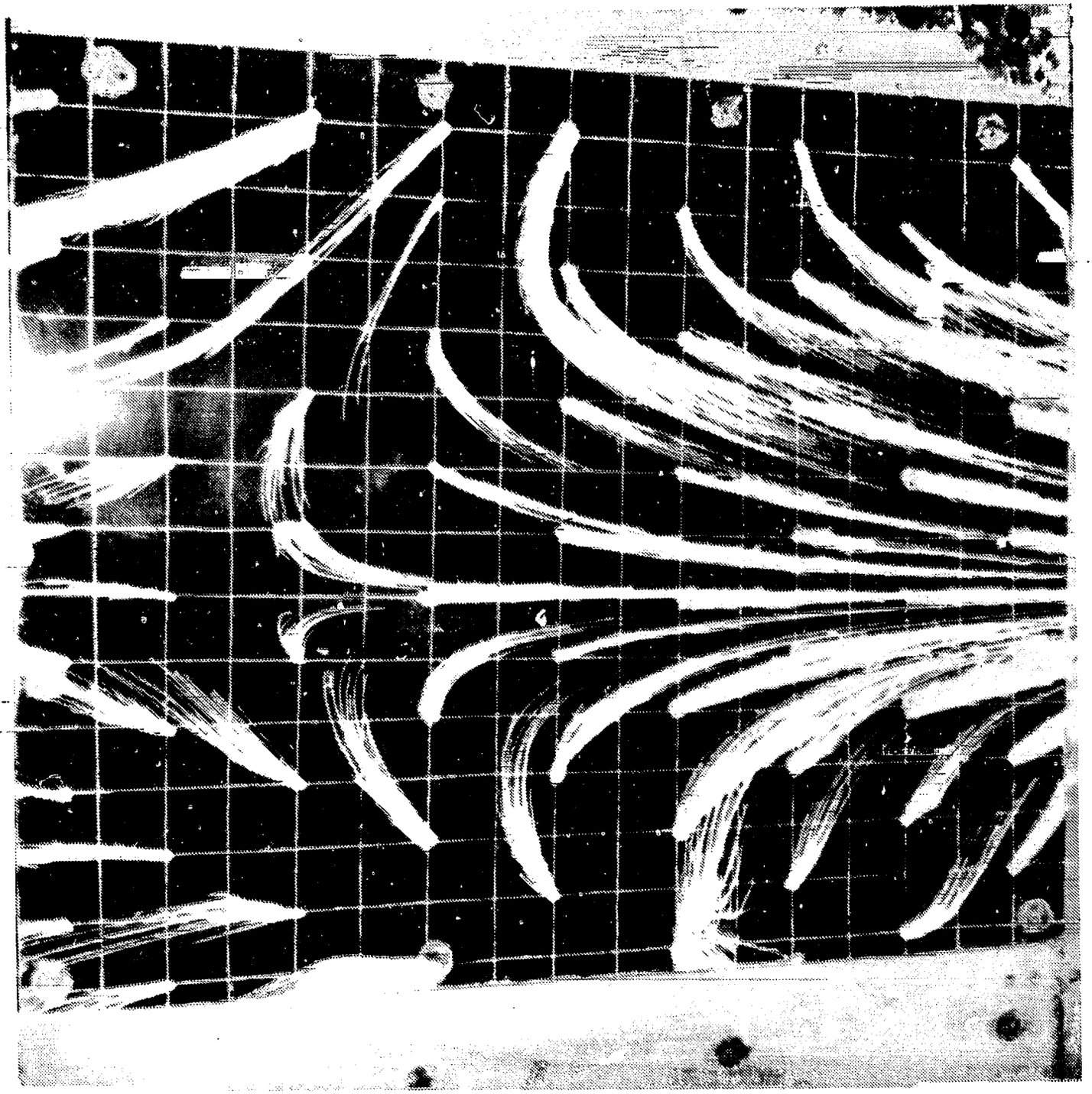
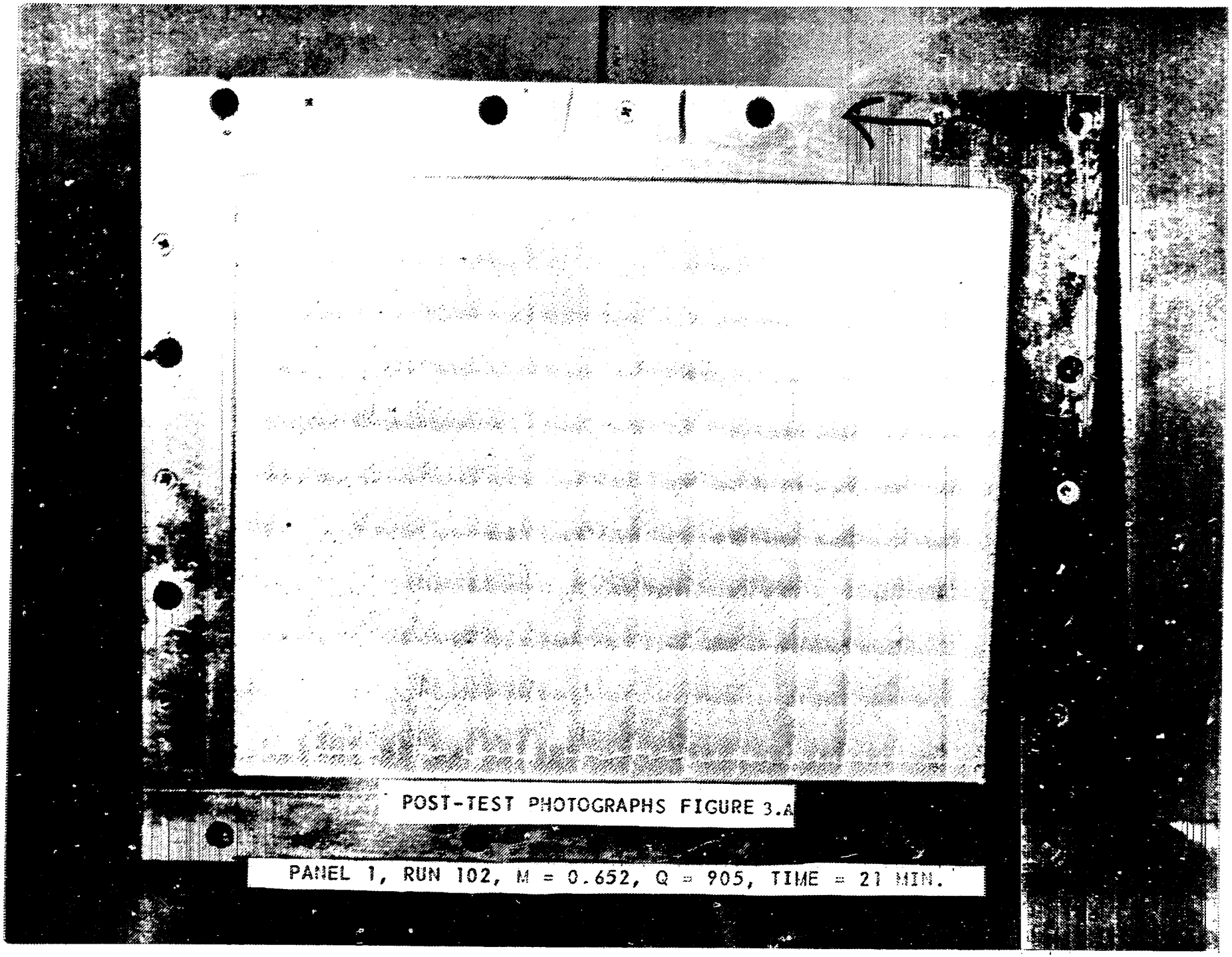
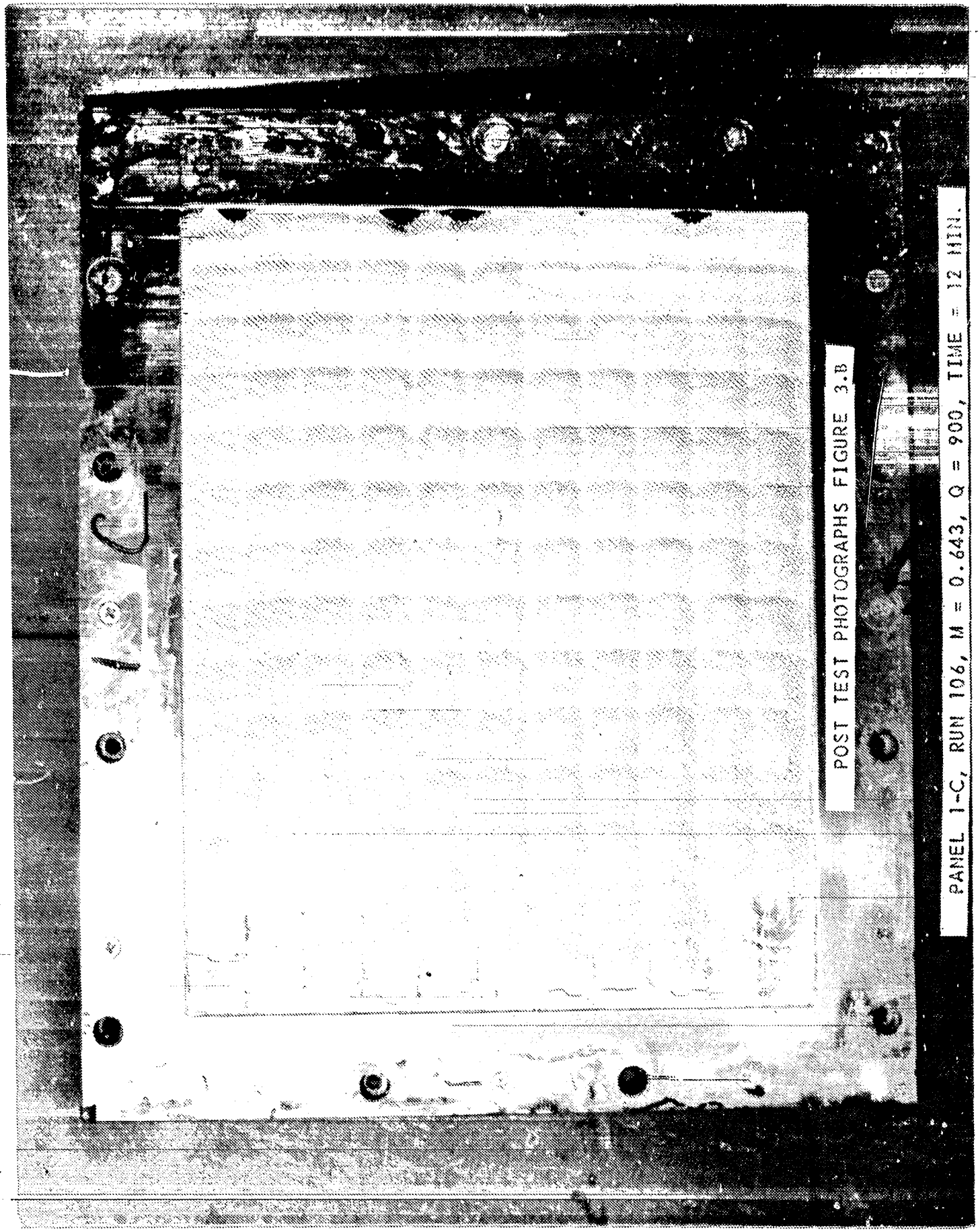


Figure 2.h Run 70 → 73 M=0.65 P_T=30 → 63 q=480 1000
Porosity bars closed top and bottom.
WH=1.5 WL=23.6 WX=-16.4



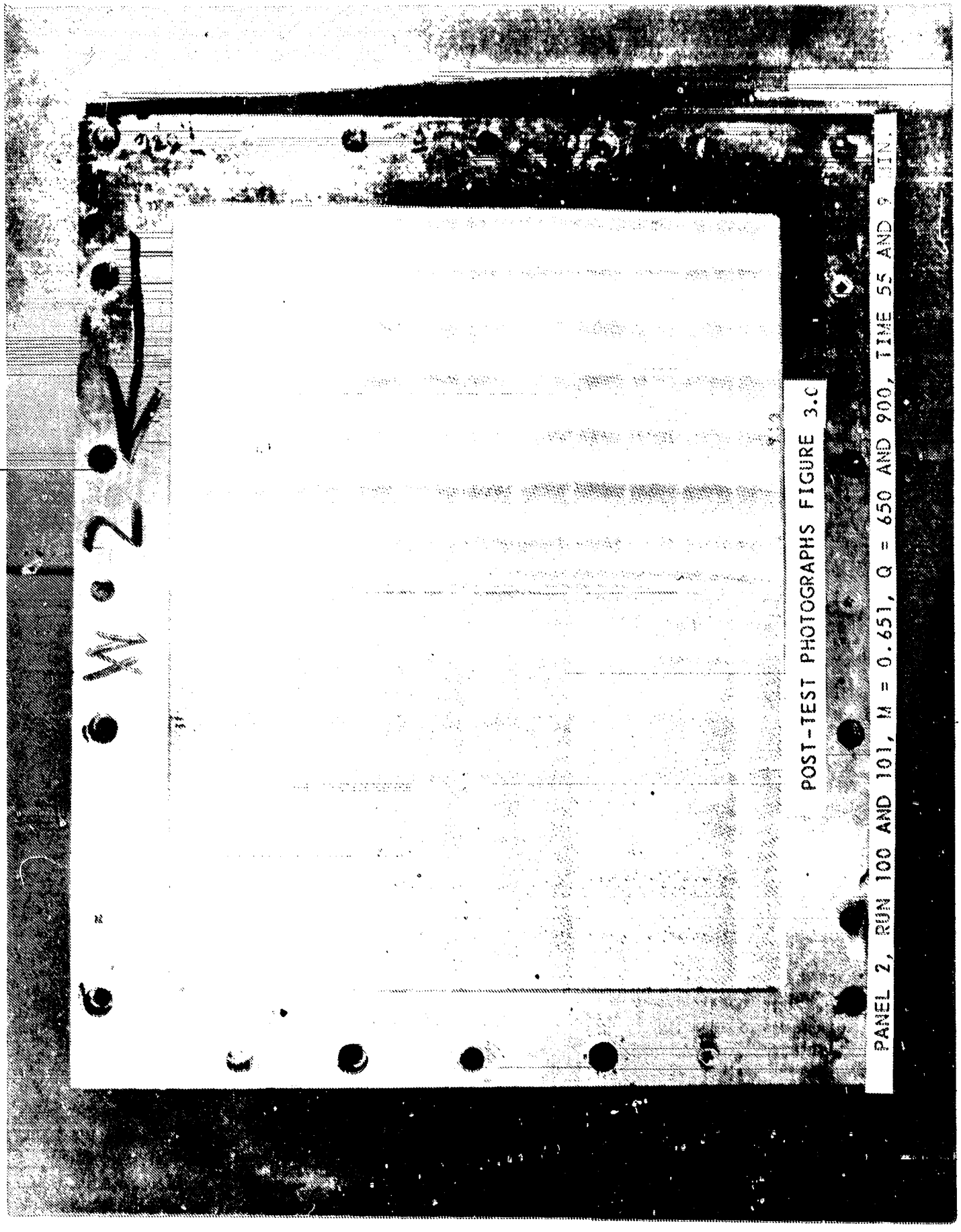
POST-TEST PHOTOGRAPHS FIGURE 3.A

PANEL 1, RUN 102, M = 0.652, Q = 905, TIME = 21 MIN.



POST TEST PHOTOGRAPHS FIGURE 3.B

PANEL 1-C, RUN 106, M = 0.643, Q = 900, TIME = 12 MIN.

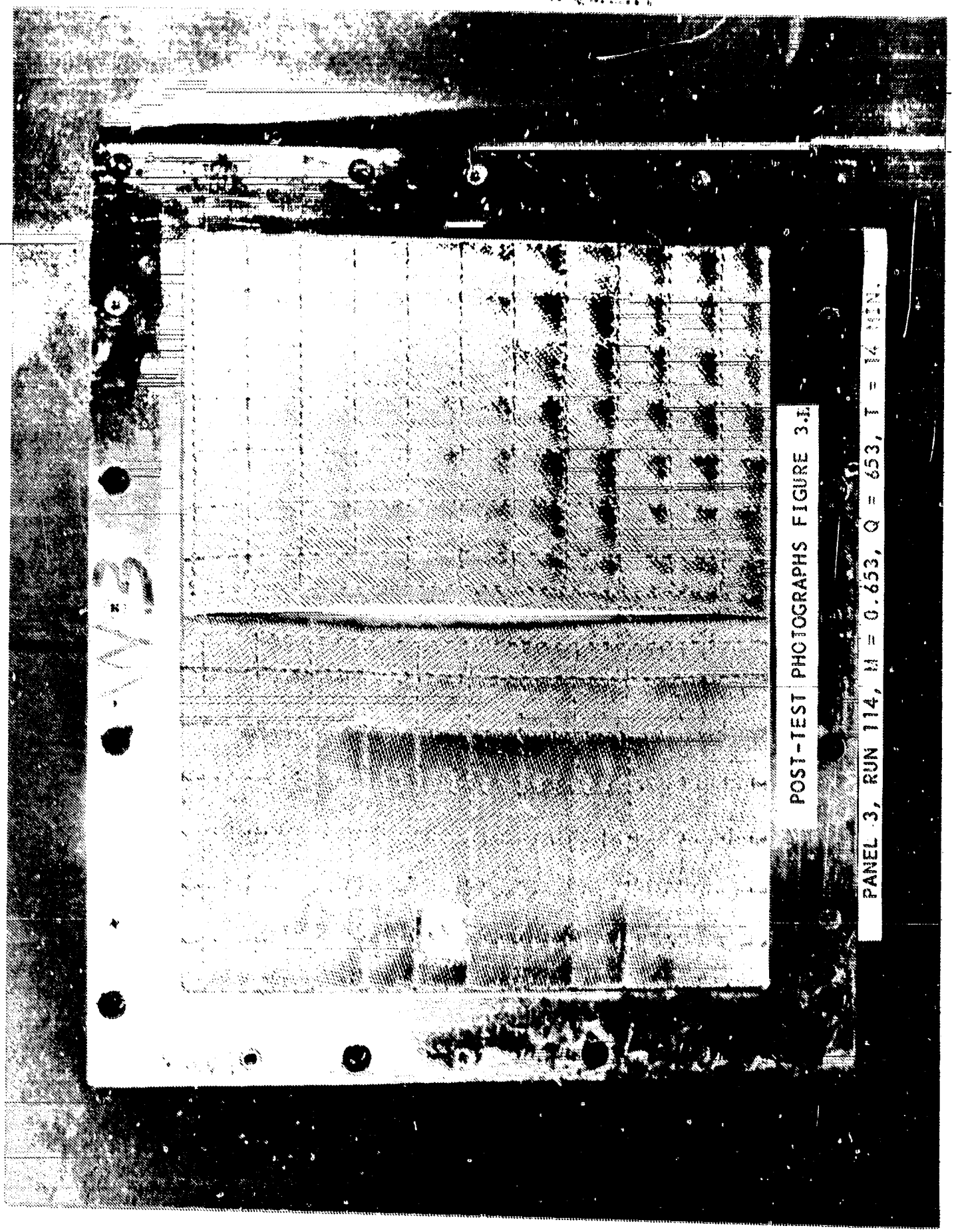


POST-TEST PHOTOGRAPHS FIGURE 3.C

PANEL 2, RUN 100 AND 101, M = 0.651, Q = 650 AND 900, TIME 55 AND 9 MIN.

POST-TEST PHOTOGRAPHS FIGURE 3.D

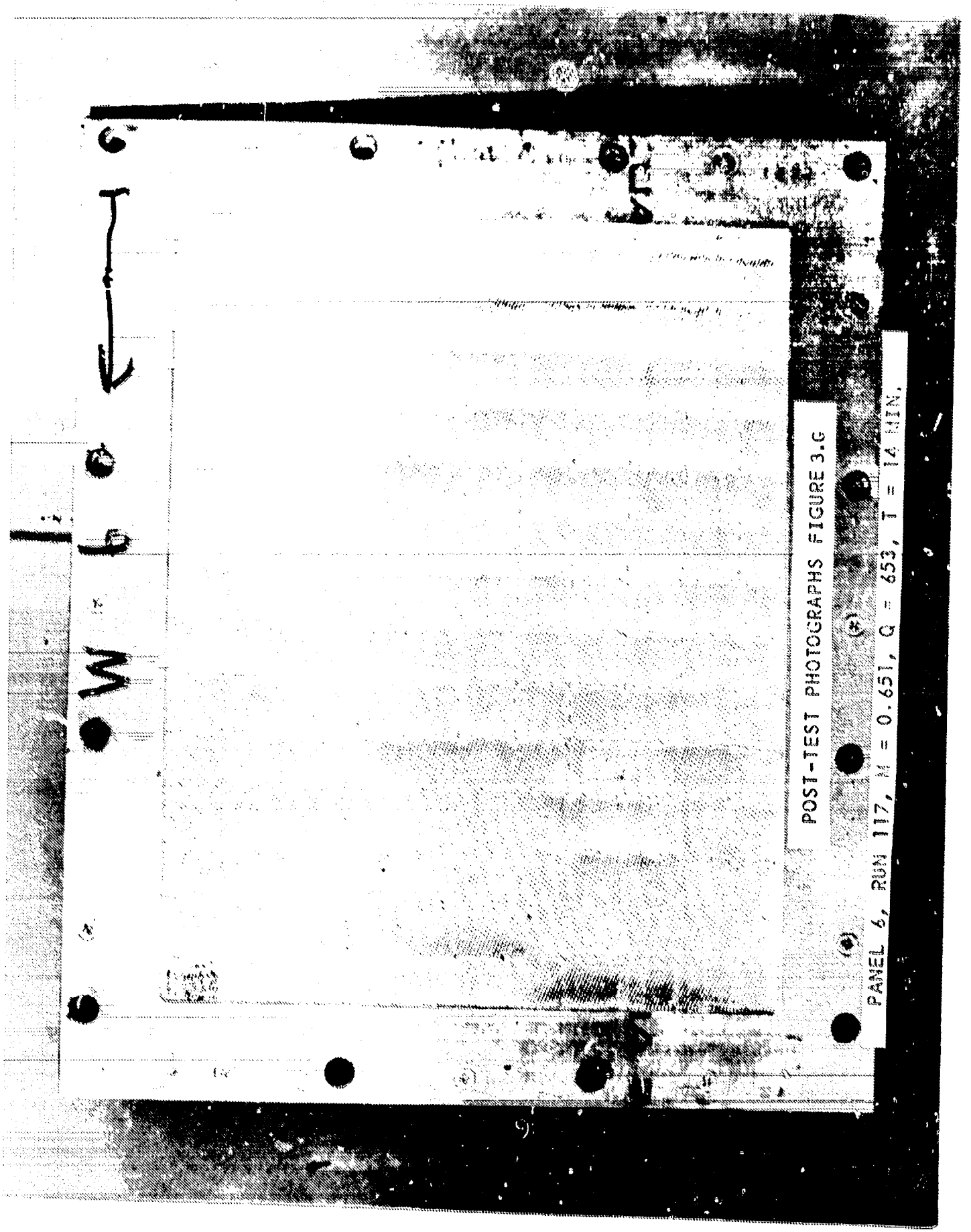
PANEL 2-C RUN 112, M = 0.650, Q = 901, T = 20 MIN.



POST-TEST PHOTOGRAPHS FIGURE 3.E

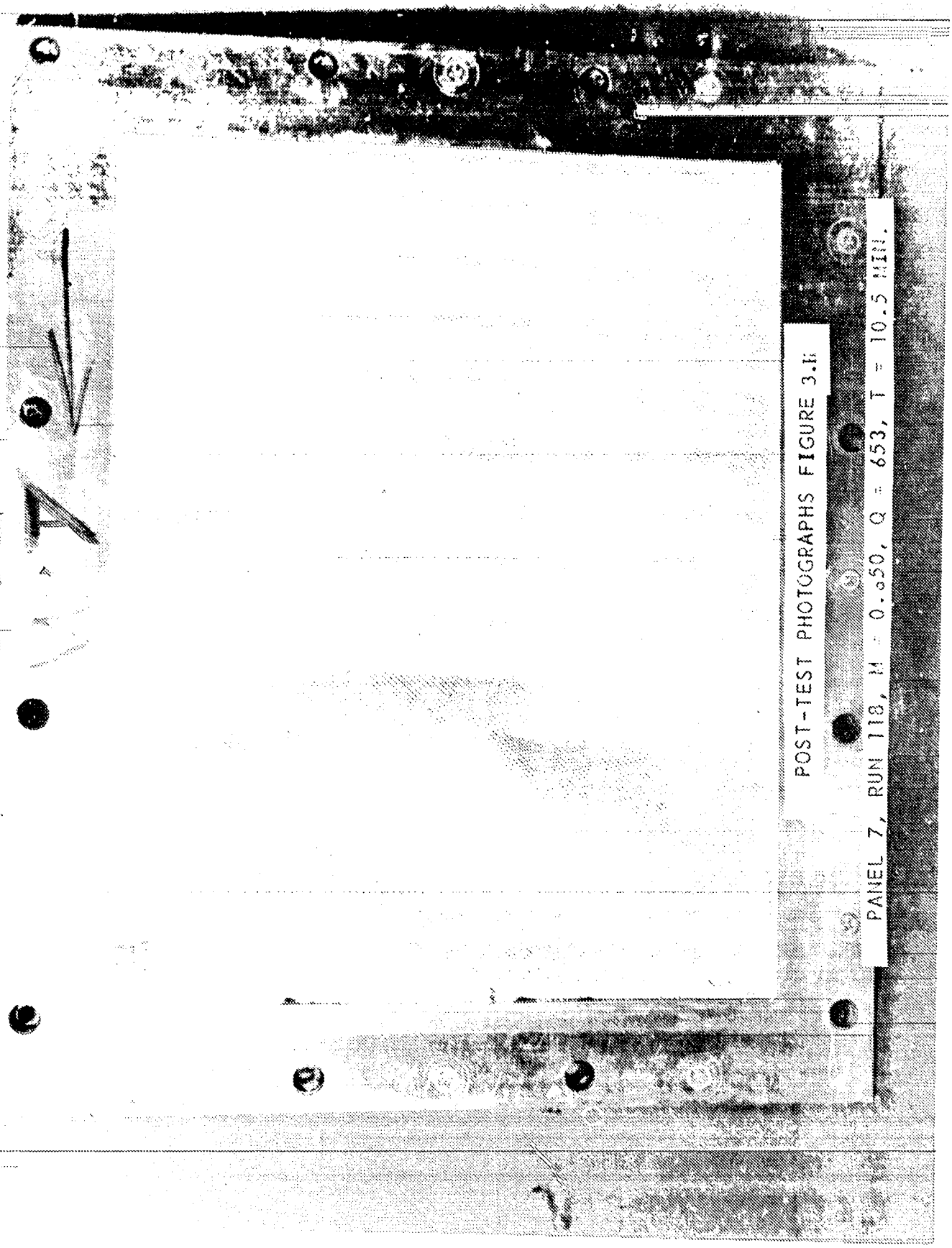
PANEL 3, RUN 114, M = 0.653, Q = 653, T = 14 MIN.

POST-TEST PHOTOGRAPHS FIGURE 3.F
PANEL 4, RUN 115, M = 0.653, Q = 654, T = 58



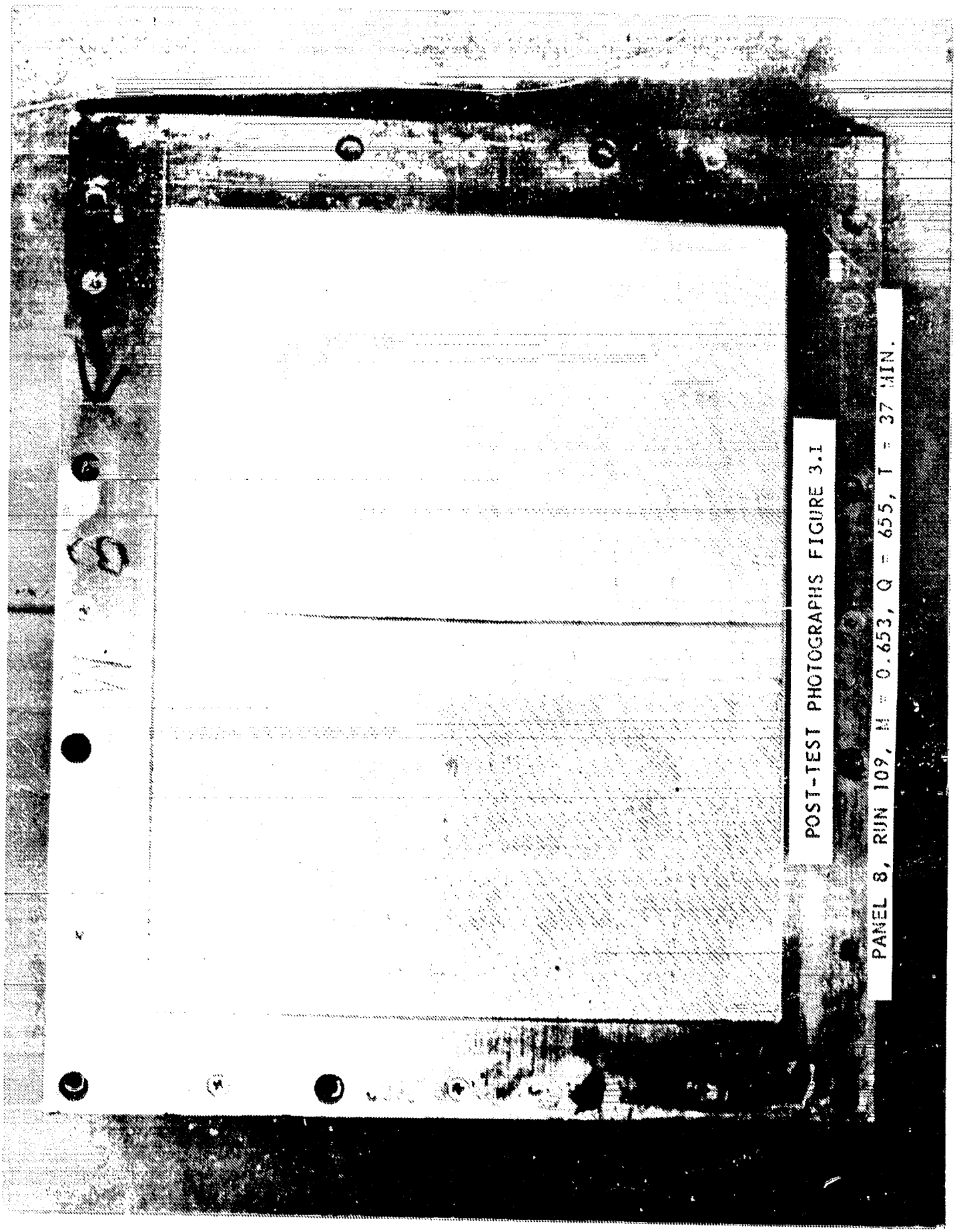
POST-TEST PHOTOGRAPHS FIGURE 3.6

PANEL 6, RUN 117, M = 0.651, Q = 653, T = 14 MIN.



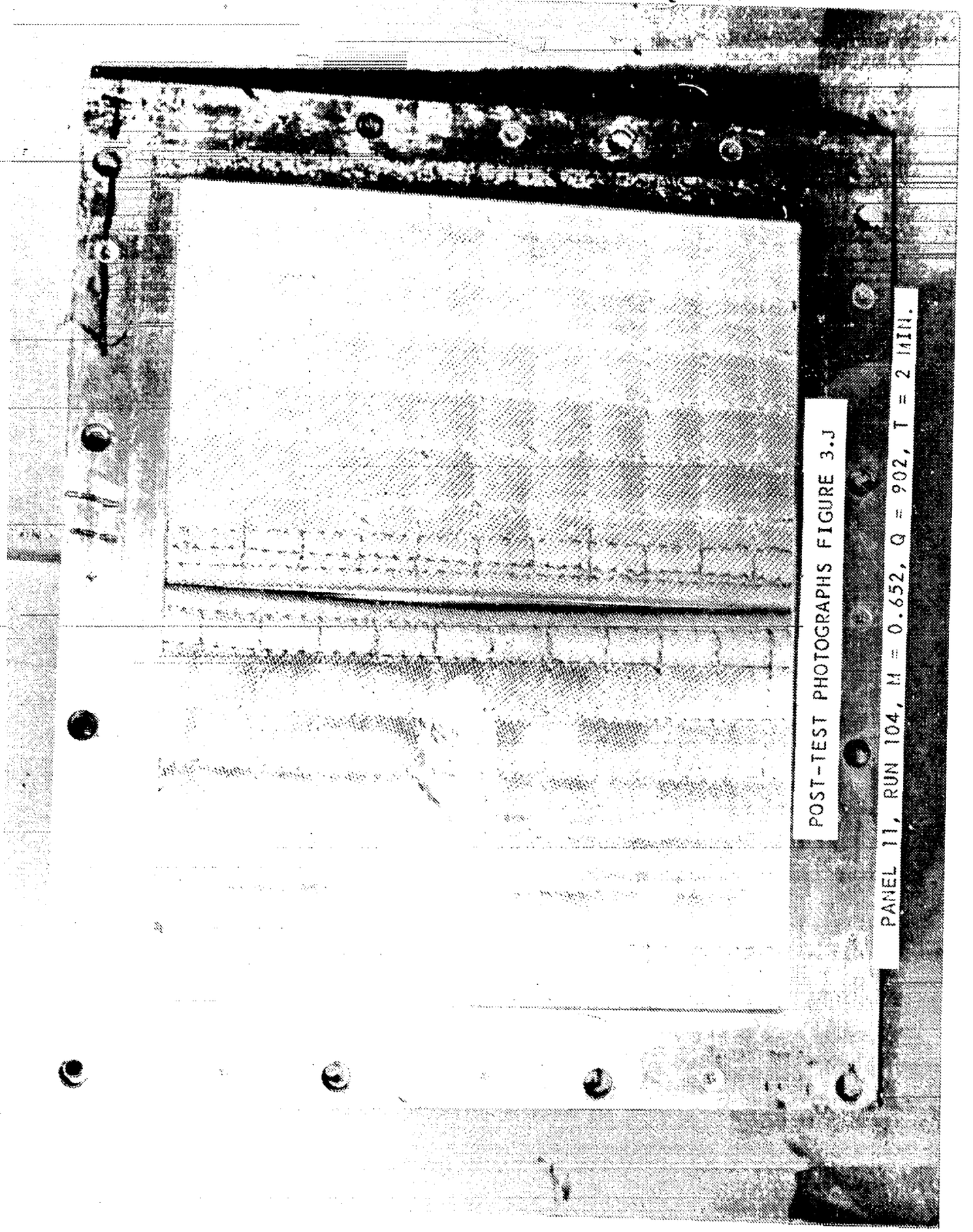
PANEL 7, RUN 118, M = 0.850, Q = 653, T = 10.5 MIN.

POST-TEST PHOTOGRAPHS FIGURE 3.8



POST-TEST PHOTOGRAPHS FIGURE 3.1

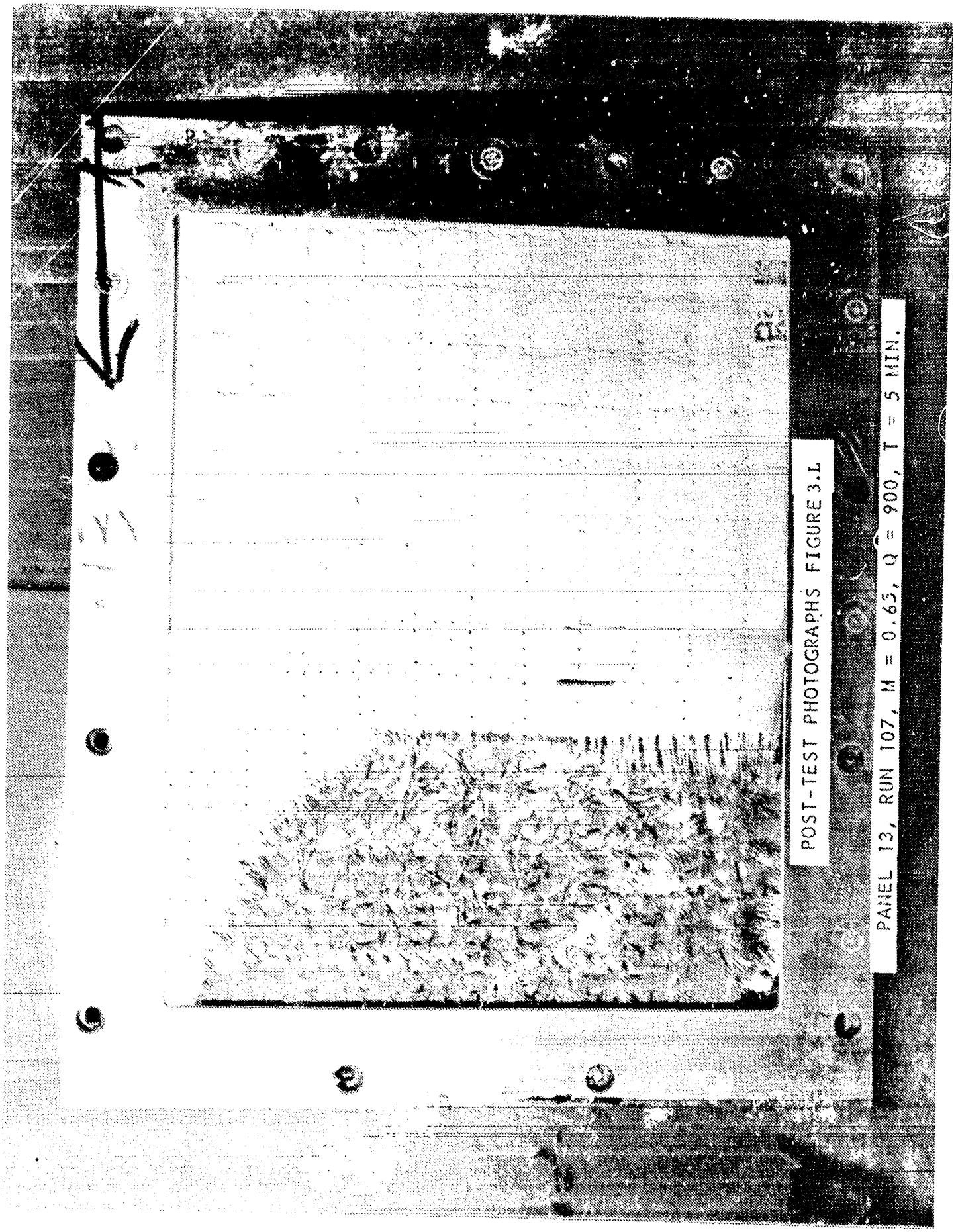
PANEL 8, RUN 109, M = 0.653, Q = 655, T = 37 MIN.



POST-TEST PHOTOGRAPHS FIGURE 3.J

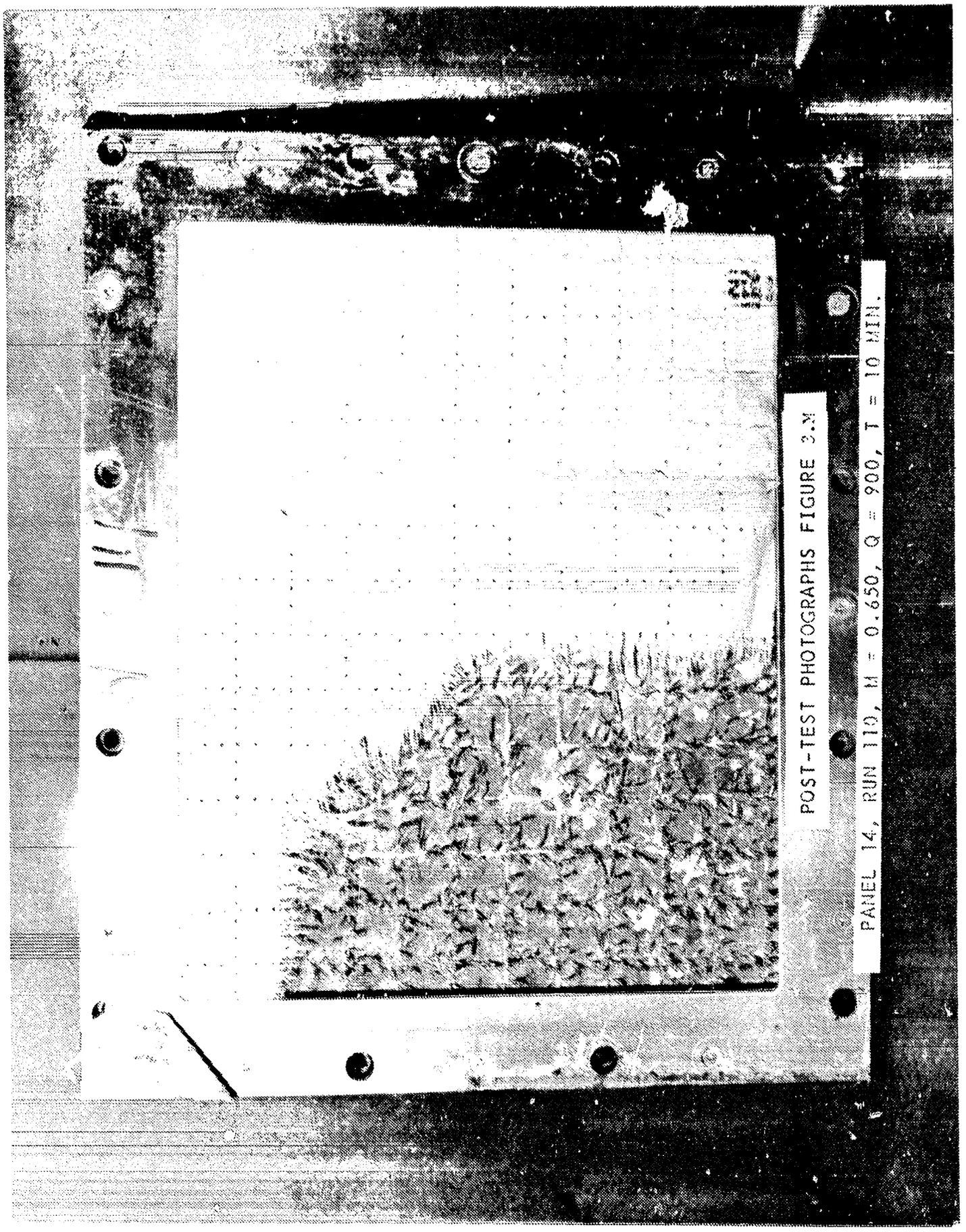
PANEL 11, RUN 104, M = 0.652, Q = 902, T = 2 MIN.

POST-TEST PHOTOGRAPHS FIGURE 3.K



POST-TEST PHOTOGRAPHS FIGURE 3.L

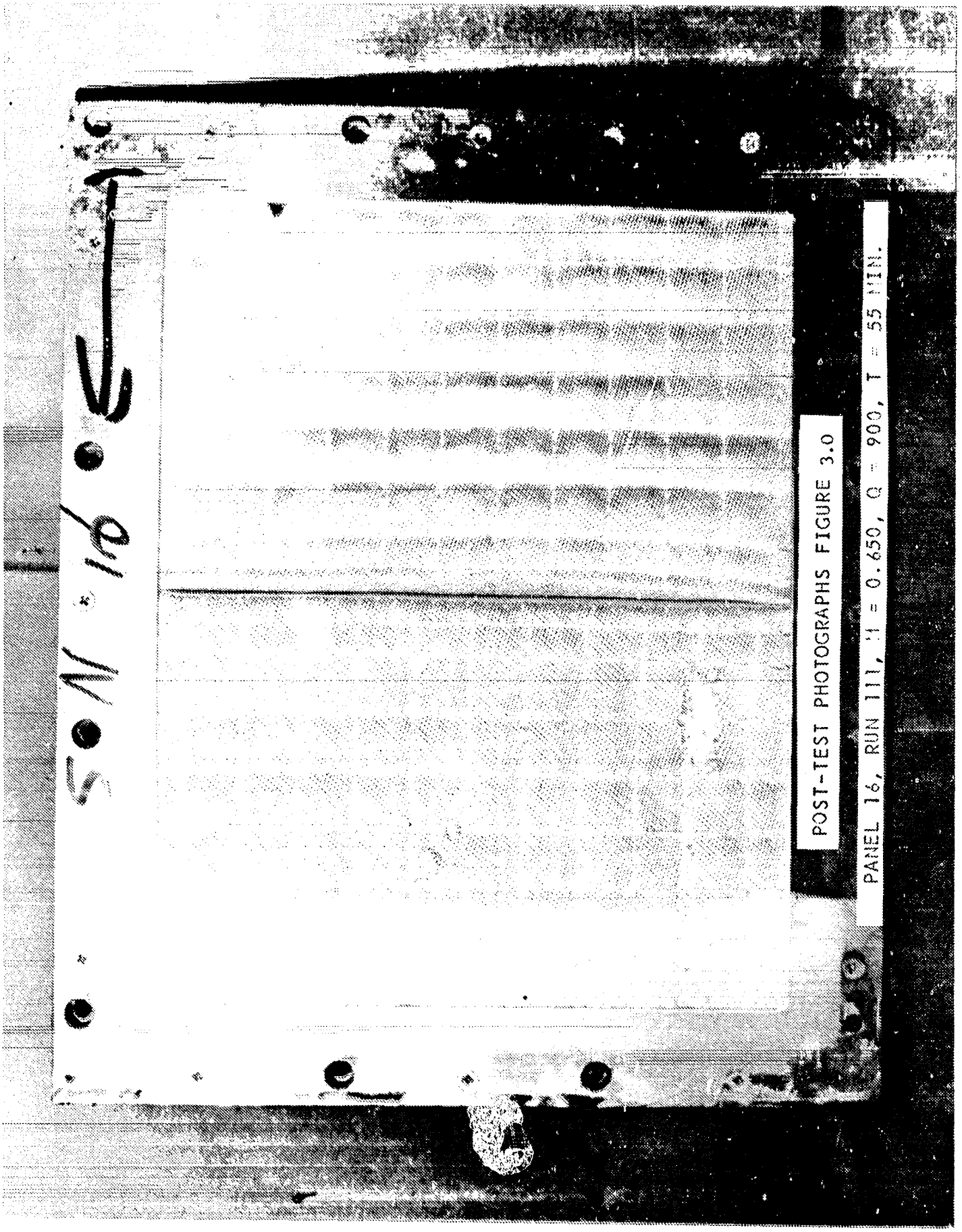
PANEL 13, RUN 107, M = 0.65, Q = 900, T = 5 MIN.



POST-TEST PHOTOGRAPHS FIGURE 3.M
PANEL 14, RUN 110, H = 0.650, Q = 900, T = 10 MIN.

POST-TEST PHOTOGRAPHS FIGURE 3.N

PANEL 15, RUN 113, M = 0.654, Q = 902, T = 21.5 MIN.



POST-TEST PHOTOGRAPHS FIGURE 3.0

PANEL 16, RUN 111, M = 0.650, Q = 900, T = 55 MIN.

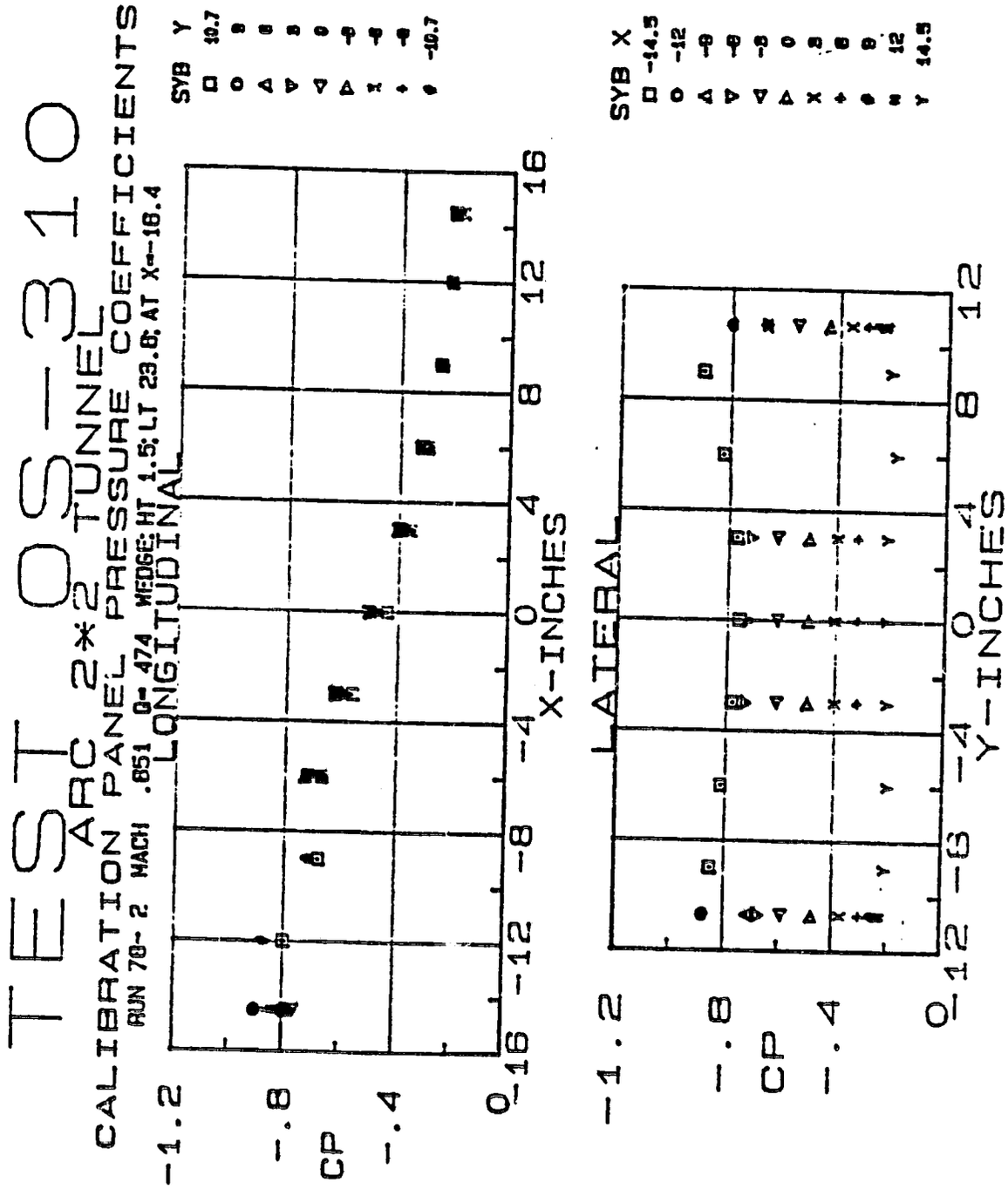

TEST OS-310
ARC 2*2 TUNNEL
CALIBRATION PANEL PRESSURE COEFFICIENTS
RUN 78-2 MACH .851 Q= 474 WEDGE: HT 1.5; LT 23.6; AT X=-18.4
LONGITUDINAL
SYB Y
10.7
-10.7
CP
-1.2
-.8
-.4
0
16
12
8
4
0
-4
-8
-12
-16
X-INCHES
LATERAL
SYB X
-14.5
-12
12
14.5
CP
-1.2
-.8
-.4
0
12
8
4
0
-4
-8
-12
Y-INCHES

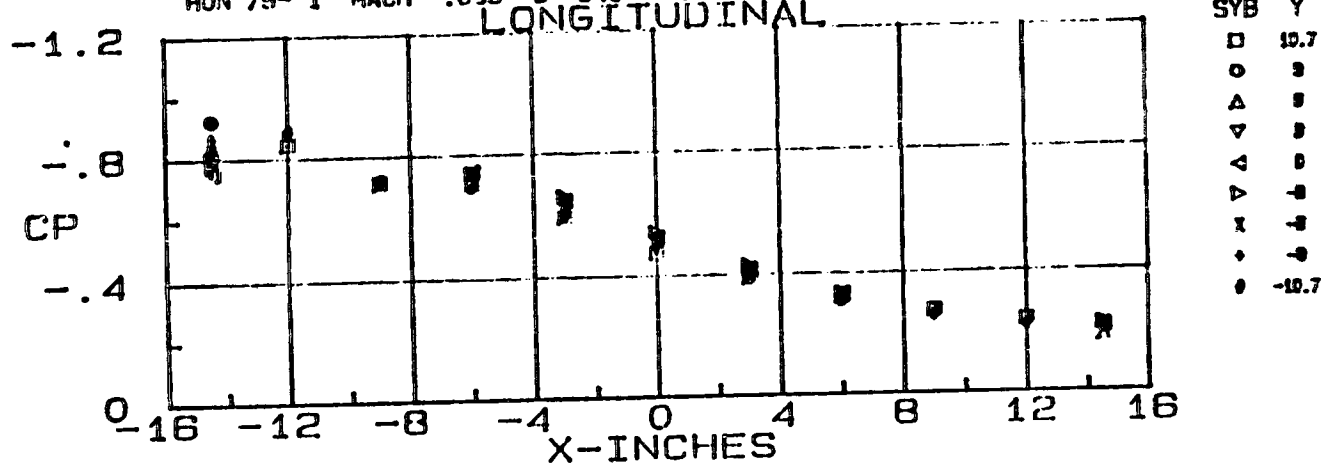
FIGURE 4.A

TEST OS-310

ARC 2×2 TUNNEL

CALIBRATION PANEL PRESSURE COEFFICIENTS

RUN 79- 1 MACH .853 Q= 841 WEDGE: HT 1.5; LT 23.0; AT X=-18.4



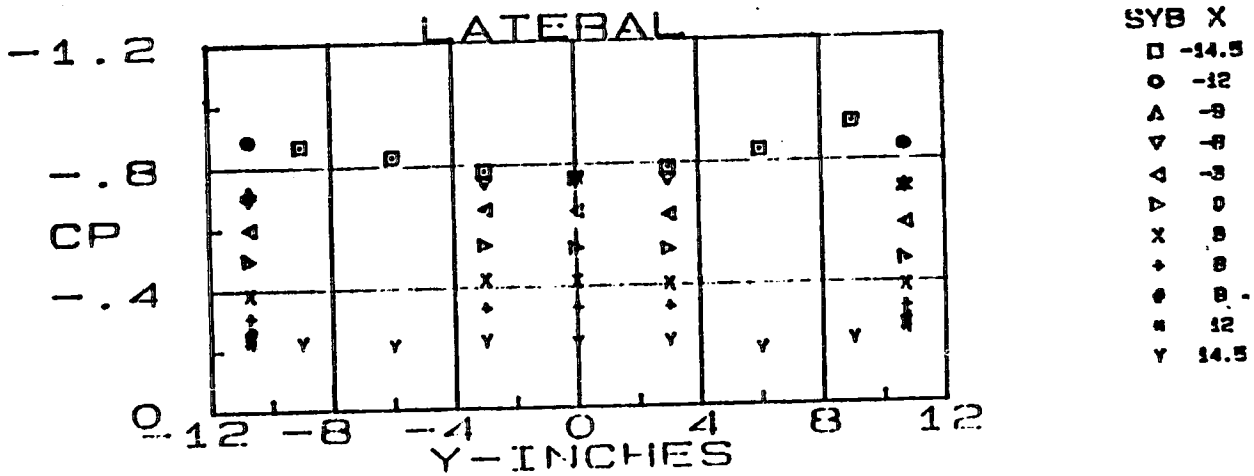


FIGURE 4.8

47

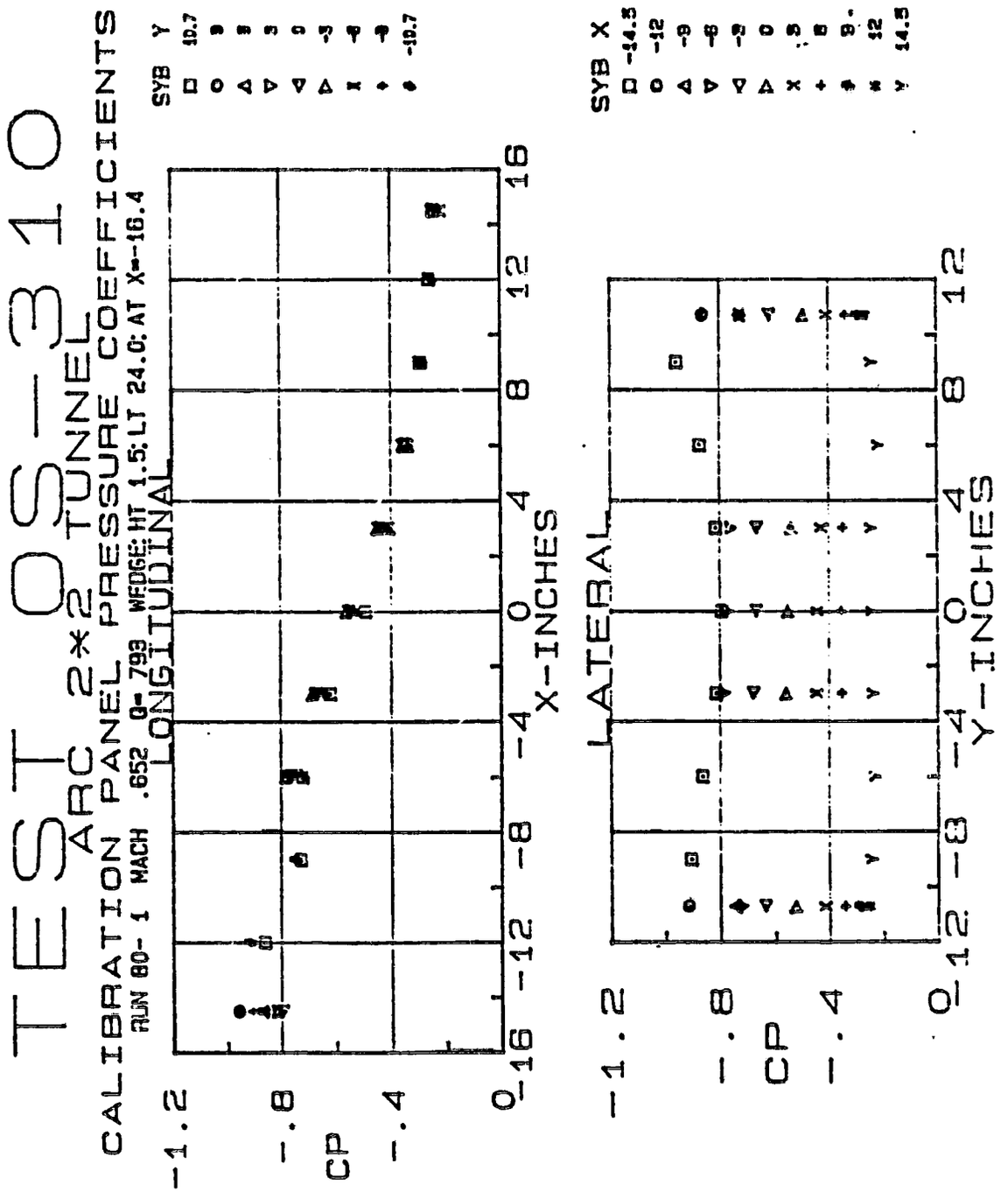

TEST OS-310
ARC 2*2 TUNNEL
CALIBRATION PANEL PRESSURE COEFFICIENTS
RUN 80- 1 MACH .652 Q= 793 WEDGE HT 1.5; LT 24.0; AT X=-16.4
LONGITUDINAL
SYB Y
10.7
5
0
-5
-10.7
CP
X-INCHES
LATERAL
SYB X
-14.5
-12
-9
-8
-5
0
5
8
12
14.5
Y-INCHES

FIGURE 4.C

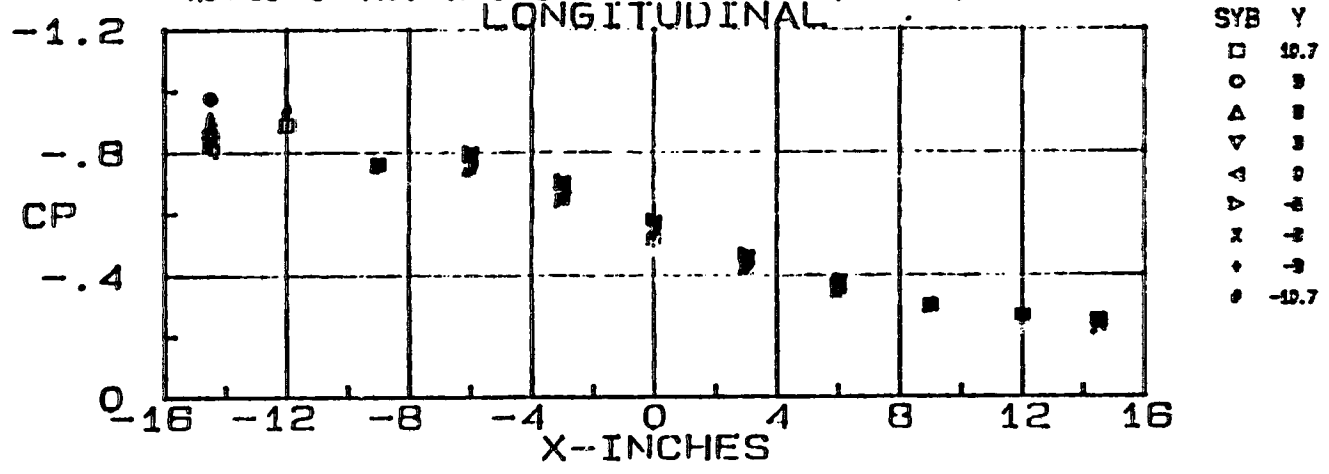
TEST OS-310

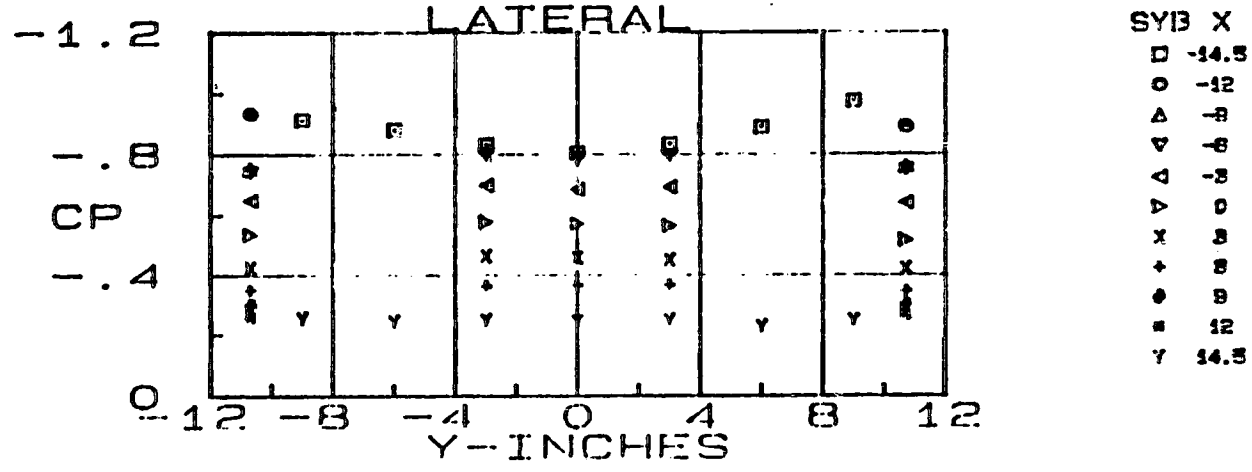
ARC 2*2 TUNNEL

CALIBRATION PANEL PRESSURE COEFFICIENTS

RUN 81- 1 MACH .851 Q= 993 WEDGE HT 1.5; LT 23.6; AT X=-18.4

FIGURE 4.D





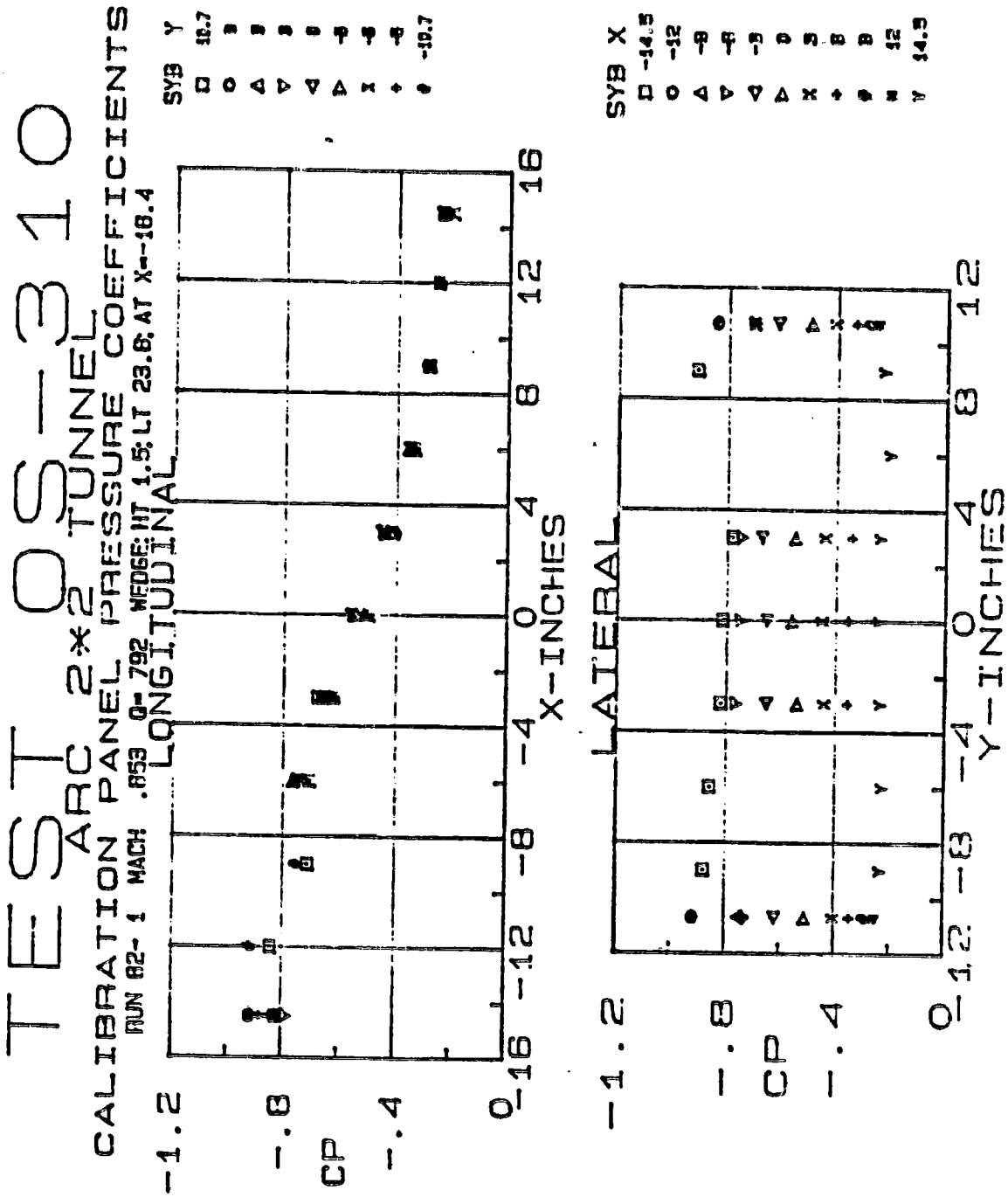

TEST OS-310
ARC 2*2 TUNNEL
CALIBRATION PANEL PRESSURE COEFFICIENTS
RUN 82-1 MACH .853 Q= 792 WEDGE HT 1.5; LT 23.6; AT X=-18.4
LONGITUDINAL
SYB Y
10.7
-10.7
CP
-1.2
-.8
-.4
0
16
12
8
4
0
-4
-8
-12
-16
X-INCHES
LATERAL
SYB X
-14.5
-12
12
14.5
CP
-1.2
-.8
-.4
0
12
8
4
0
-4
-8
-12
Y-INCHES

FIGURE 4.E

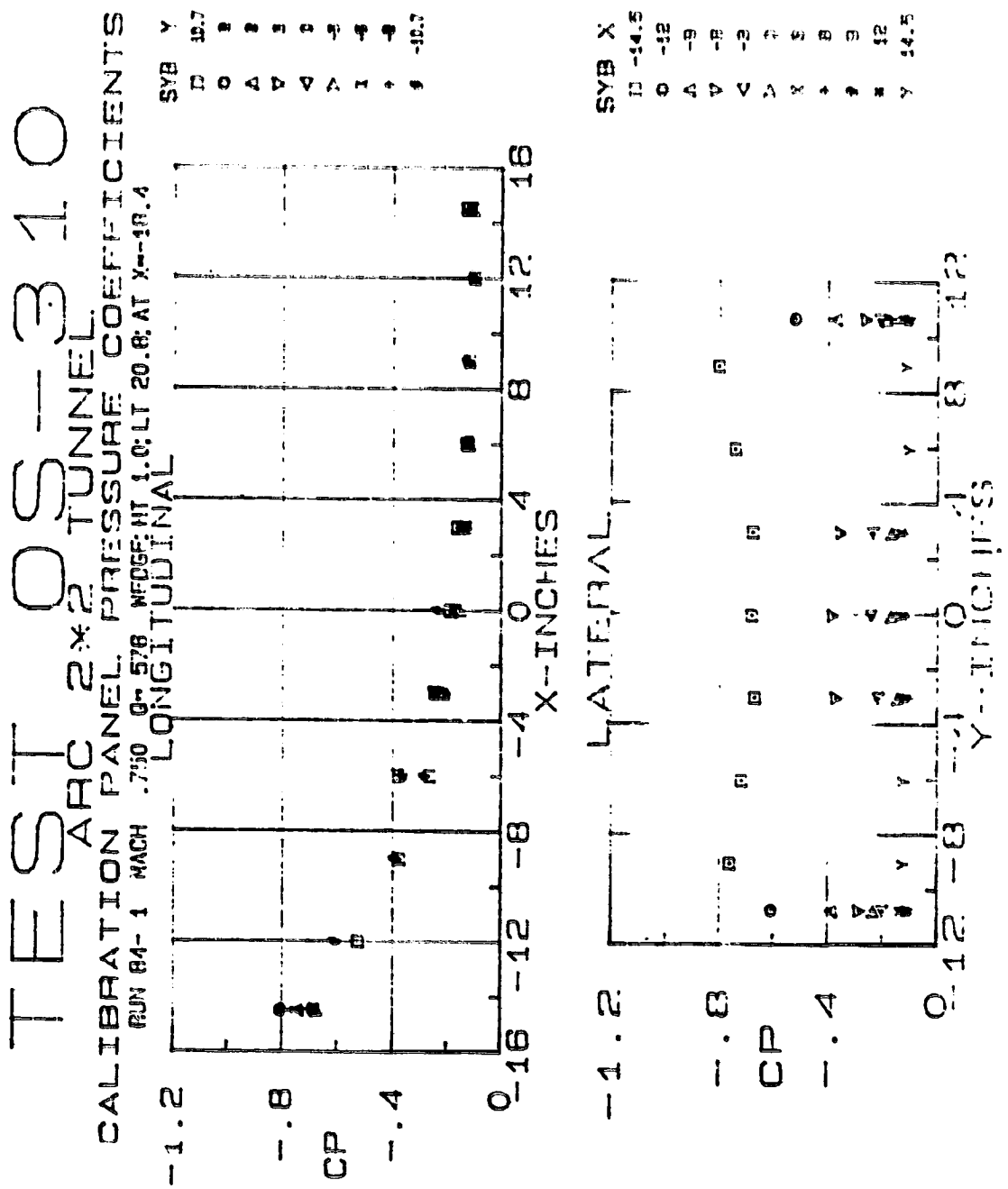

TEST OS-310
ARC 2×2 TUNNEL
CALIBRATION PANEL PRESSURE COEFFICIENTS
RUN 84-1 MACH .750 α= 5.78 WEDGE HT 1.0; LT 20.8; AT X=-18.4
LONGITUDINAL
SYB Y
15.7
-15.7
CP
-1.2
-.8
-.4
0
16
12
8
4
0
-4
-8
-12
-16
X-INCHES
LATERAL
SYB X
-14.5
-12
12
14.5
CP
-1.2
-.8
-.4
0
12
8
4
0
-4
-8
-12
Y-INCHES

FIGURE 4.F

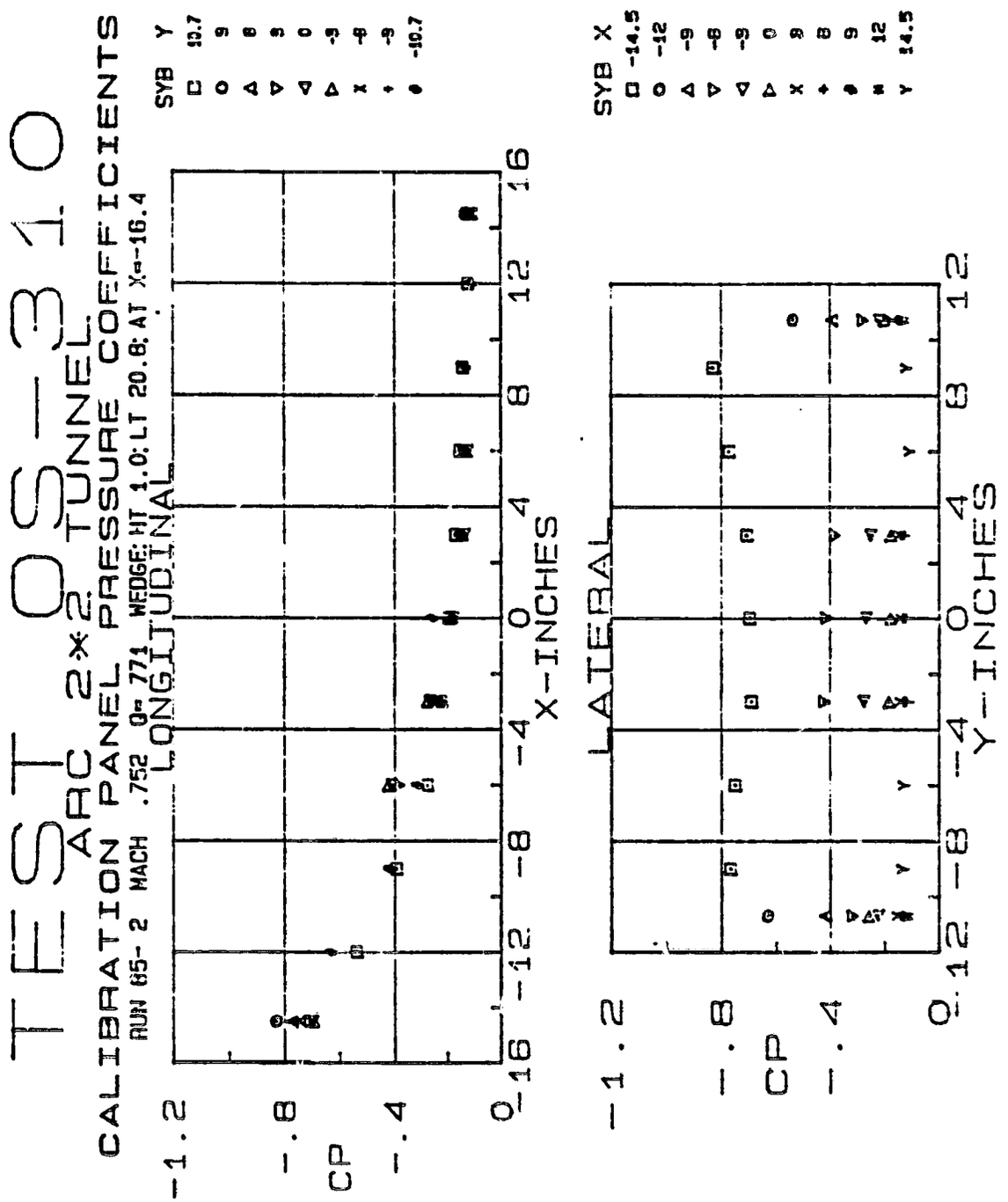

TEST OS-310
ARC 2*2 TUNNEL
CALIBRATION PANEL PRESSURE COEFFICIENTS
RUN 65-2 MACH .752 Q= 771 WEDGE: HT 1.0: LT 20.8: AT X=-16.4
LONGITUDINAL
SYB Y
10.7
9
8
5
0
-5
-8
-9
-10.7
CP
-1.2
-.8
-.4
0
16
12
8
4
0
-4
-8
-12
-16
X-INCHES
LATERAL
SYB X
-14.5
-12
-9
-8
-5
0
5
8
9
12
14.5
CP
-1.2
-.8
-.4
0
12
8
4
0
-4
-8
-12
Y-INCHES

FIGURE 4.6

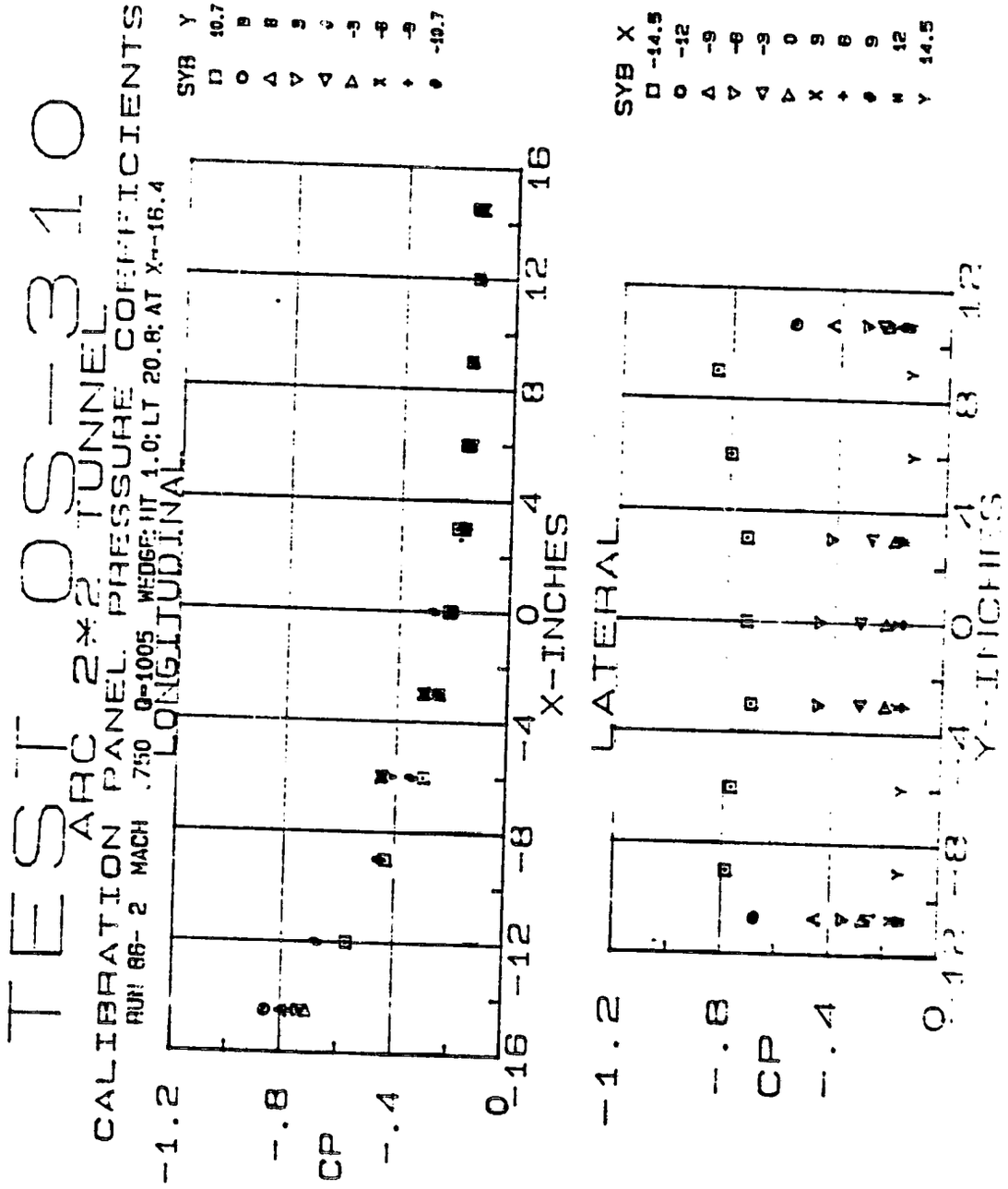

TEST OS-310
ARC 2*2 TUNNEL
CALIBRATION PANEL PRESSURE COEFFICIENTS
RUN 86- 2 MACH .750 Q=1005 WEDGE HT 1.0; LT 20.8; AT X=-16.4
LONGITUDINAL
SYB Y
10.7
8
5
-5
-8
-10.7
CP
-1.2
-.8
-.4
0
16
12
8
4
0
-4
-8
-12
-16
X-INCHES
LATERAL
SYB X
-14.5
-12
-9
-8
-5
0
5
8
9
12
14.5
Y
CP
-1.2
-.8
-.4
0
12
8
4
0
-4
-8
-12
Y-INCHES

FIGURE 4.11

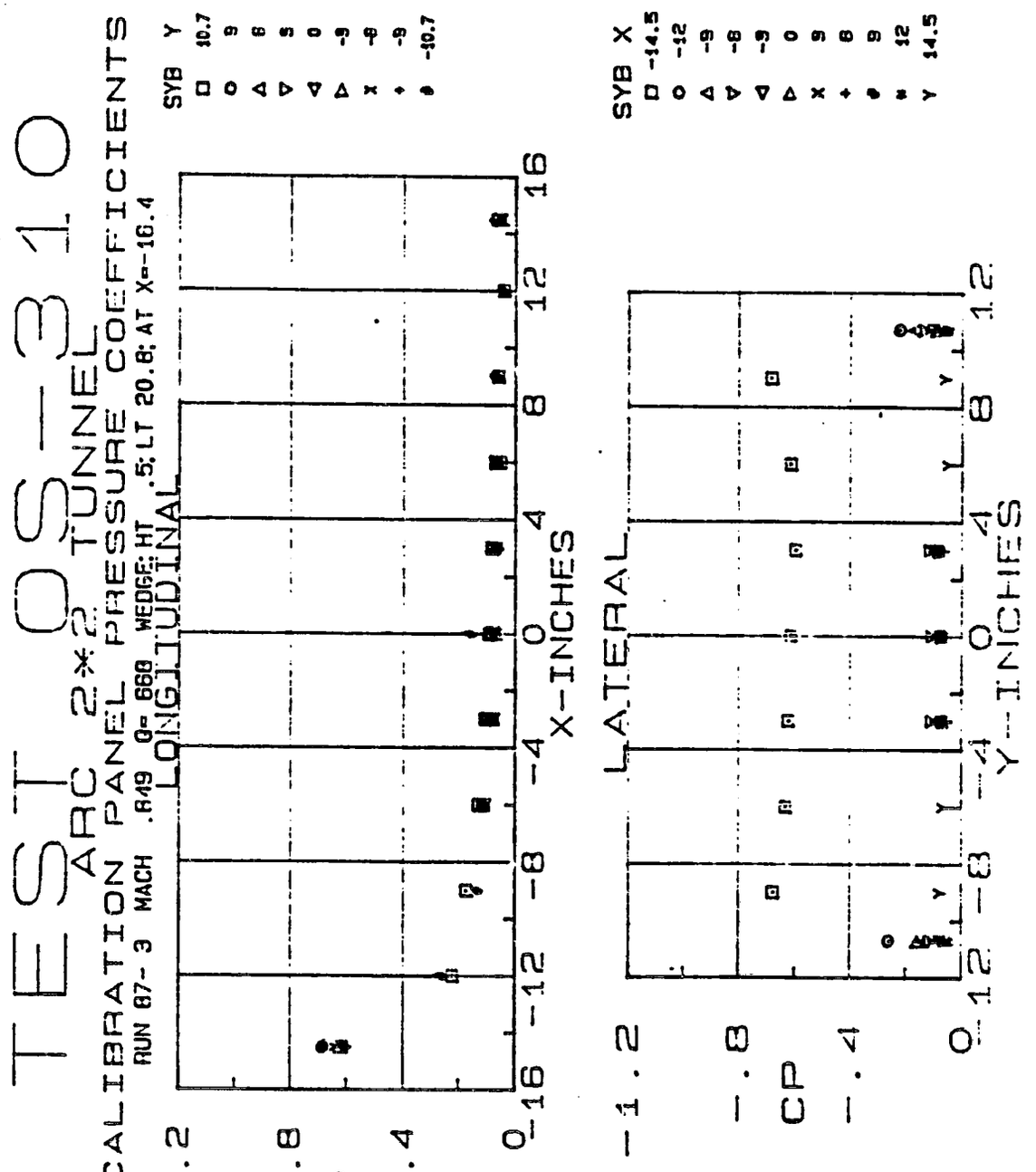

TEST OS-310
ARC 2*2 TUNNEL
CALIBRATION PANEL PRESSURE COEFFICIENTS
RUN 87-3 MACH .849 Q= 660 WEDGE HT .5; LT 20.8; AT X=-16.4
LONGITUDINAL
SYB Y
10.7
9
8
5
0
-5
-8
-9
-10.7
CP
X-INCHES
LATERAL
SYB X
-14.5
-12
-9
-8
-5
0
5
8
9
12
14.5
Y--INCHES

FIGURE 4.1

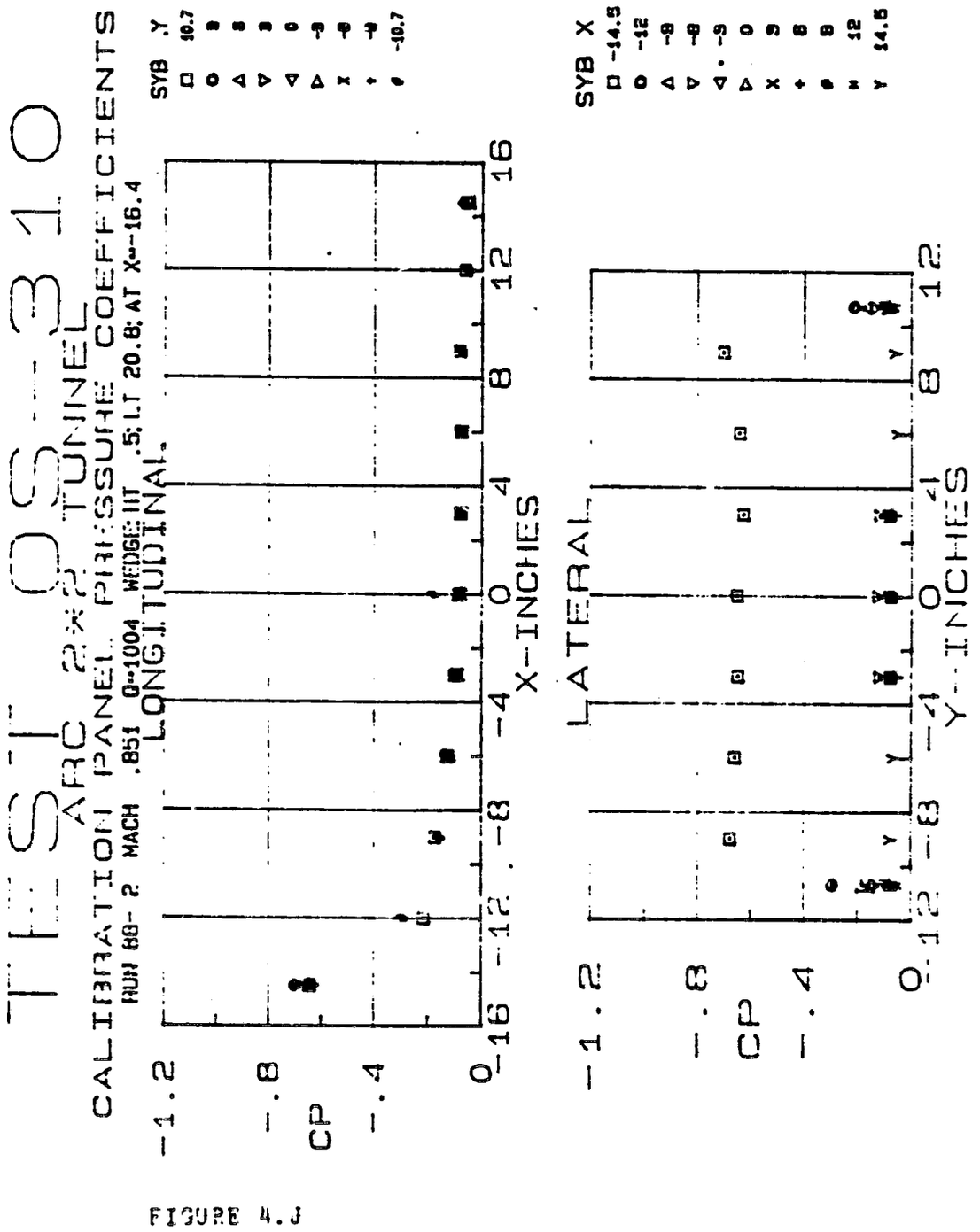

TEST 0S-3 10
ARC 2*22 TUNNEL
CALIBRATION PANEL PRESSURE COEFFICIENTS
RUN 60- 2 MACH .851 Q=1004 WEDGE 11T .5 LT 20.8; AT X=-16.4
LONGITUDINAL
SYB Y
10.7
-10.7
CP
-1.2
-.8
-.4
0
16
12
8
4
0
-4
-8
-12
-16
X-INCHES
LATERAL
SYB X
-14.5
-12
14.5
CP
-1.2
-.8
-.4
0
12
8
4
0
-4
-8
-12
Y-INCHES

FIGURE 4.J

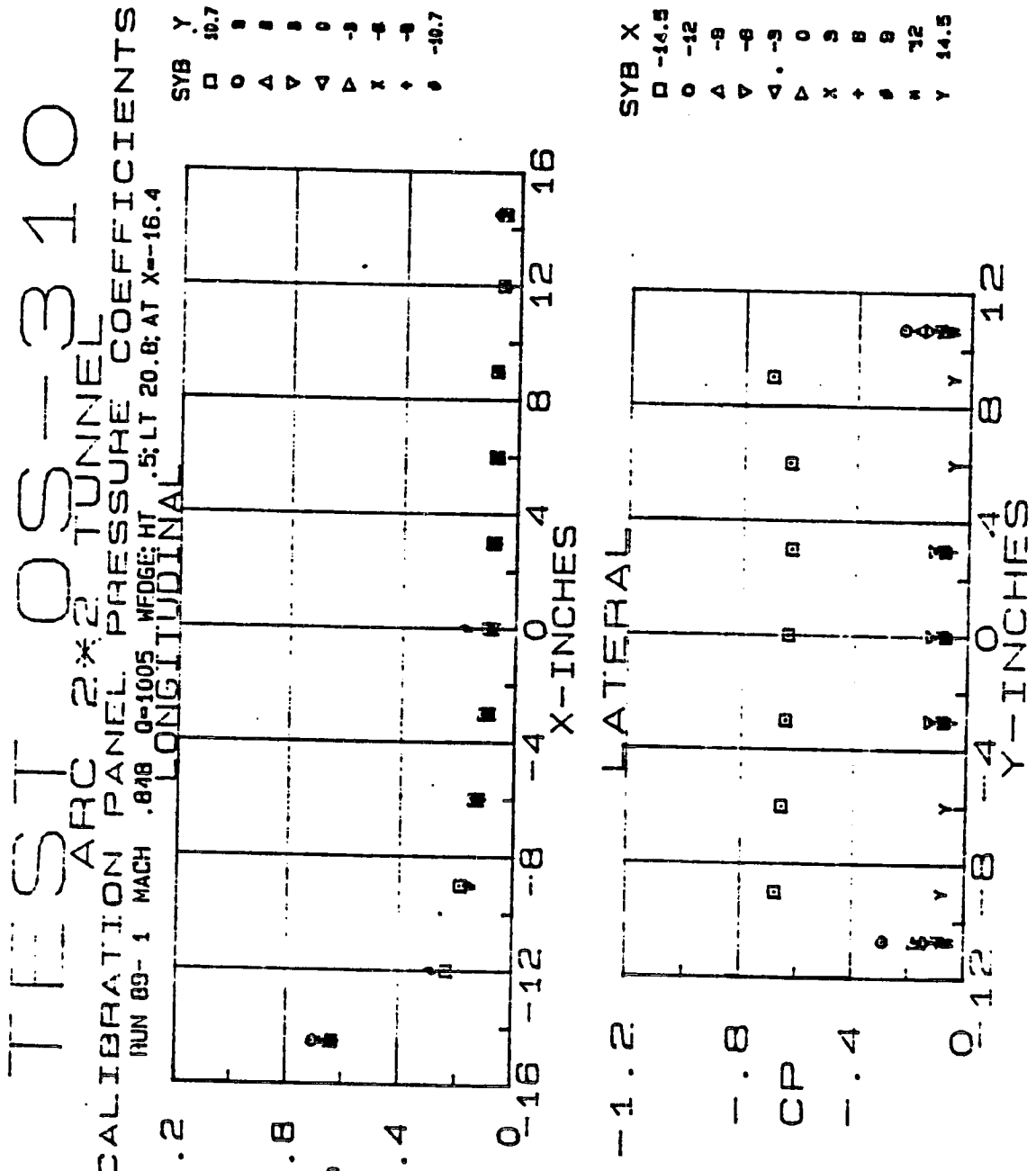

TEST OS-310
ARC 2*22 TUNNEL
CALIBRATION PANEL PRESSURE COEFFICIENTS
RUN 89- 1 MACH .848 Q=1005 WFDGE: HT .5; LT 20.8; AT X=-16.4
LONGITUDINAL
SYB Y
10.7
-10.7
CP
-1.2
-.8
-.4
0
16
12
8
4
0
-4
-8
-12
-16
X-INCHES
LATERAL
SYB X
-14.5
-12
-9
-5
0
5
8
9
12
14.5
CP
-1.2
-.8
-.4
0
12
8
4
0
-4
-8
-12
Y-INCHES

FIGURE 4.K

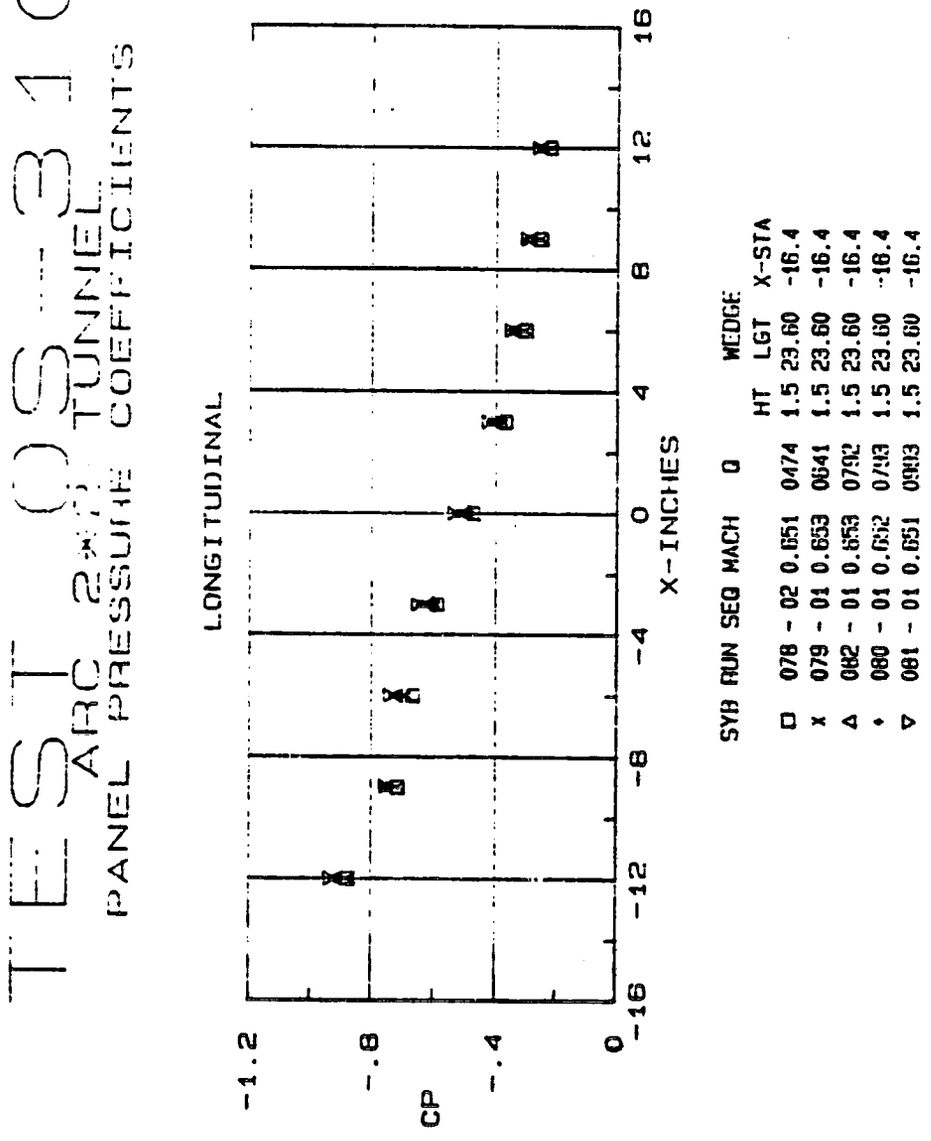
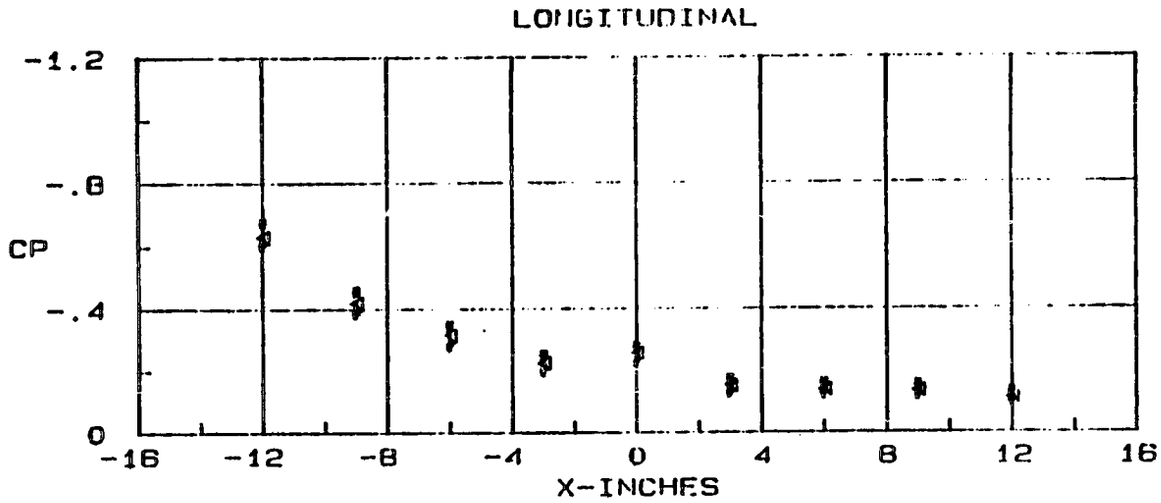

TEST OS-31
ARC 2 FT TUNNEL
PANEL PRESSURE COEFFICIENTS
LONGITUDINAL
CP
-1.2
-.8
-.4
0
16
12
8
4
0
-4
-8
-12
-16
X-INCHES
SYB RUN SEQ MACH Q WEDGE
HT LGT X-STA
□ 078 - 02 0.651 0474 1.5 23.60 -16.4
× 079 - 01 0.653 0641 1.5 23.60 -16.4
△ 082 - 01 0.653 0792 1.5 23.60 -16.4
◆ 080 - 01 0.652 0743 1.5 23.60 -16.4
▽ 081 - 01 0.651 0803 1.5 23.60 -16.4

FIGURE 5.A

TEST OS-310
ARC 2×2 TUNNEL
PANEL PRESSURE COEFFICIENTS



SYB	RUN SEQ	MACH	Q	WEDGE HT	WEDGE LGT	WEDGE X-STA
●	084 - 01	0.750	0576	1.0	20.75	-16.4
◁	085 - 02	0.752	0771	1.0	20.75	-16.4
▪	088 - 02	0.750	1005	1.0	20.75	-16.4

FIGURE 5.8

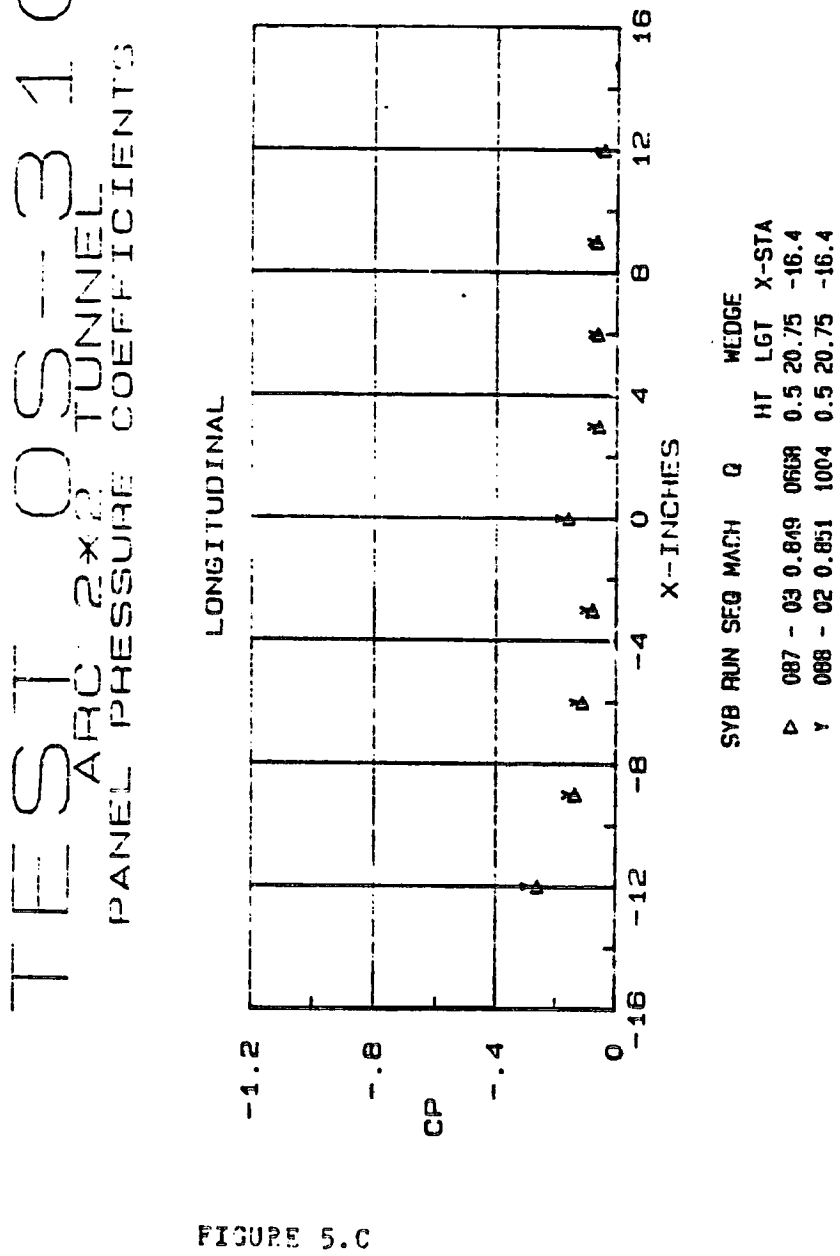
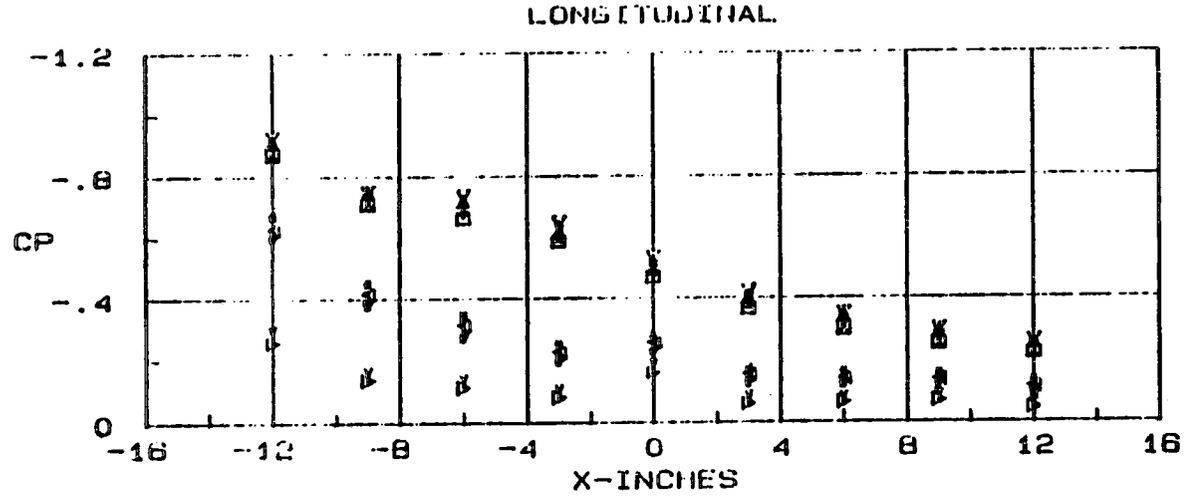

TEST OS-310
ARC 2*2 TUNNEL
PANEL PRESSURE COEFFICIENTS
LONGITUDINAL
CP
-1.2
-.8
-.4
0
-16
-12
-8
-4
0
4
8
12
16
X-INCHES
SYB RUN SEQ MACH Q WEDGE
HT LGT X-STA
▷ 087 - 03 0.849 0668 0.5 20.75 -16.4
▽ 088 - 02 0.851 1004 0.5 20.75 -16.4

FIGURE 5.C

TEST OS-310
ARC 2×2 TUNNEL
PANEL PRESSURE COEFFICIENTS



SYB	RUN SEQ	MACH	Q	WEDGE HT	WEDGE LGT	WEDGE X-STA
□	078 - 02	0.651	0474	1.5	23.60	-16.4
×	079 - 01	0.653	0641	1.5	23.60	-16.4
△	082 - 01	0.653	0792	1.5	23.60	-16.4
◆	080 - 01	0.652	0753	1.5	23.60	-16.4
▽	081 - 01	0.651	0999	1.5	23.60	-16.4
●	084 - 01	0.750	0576	1.0	20.75	-16.4
◁	085 - 02	0.752	0771	1.0	20.75	-16.4
■	086 - 02	0.750	1005	1.0	20.75	-16.4
▷	087 - 03	0.849	0888	0.5	20.75	-16.4
Y	088 - 02	0.851	1004	0.5	20.75	-16.4

FIGURE 6.A

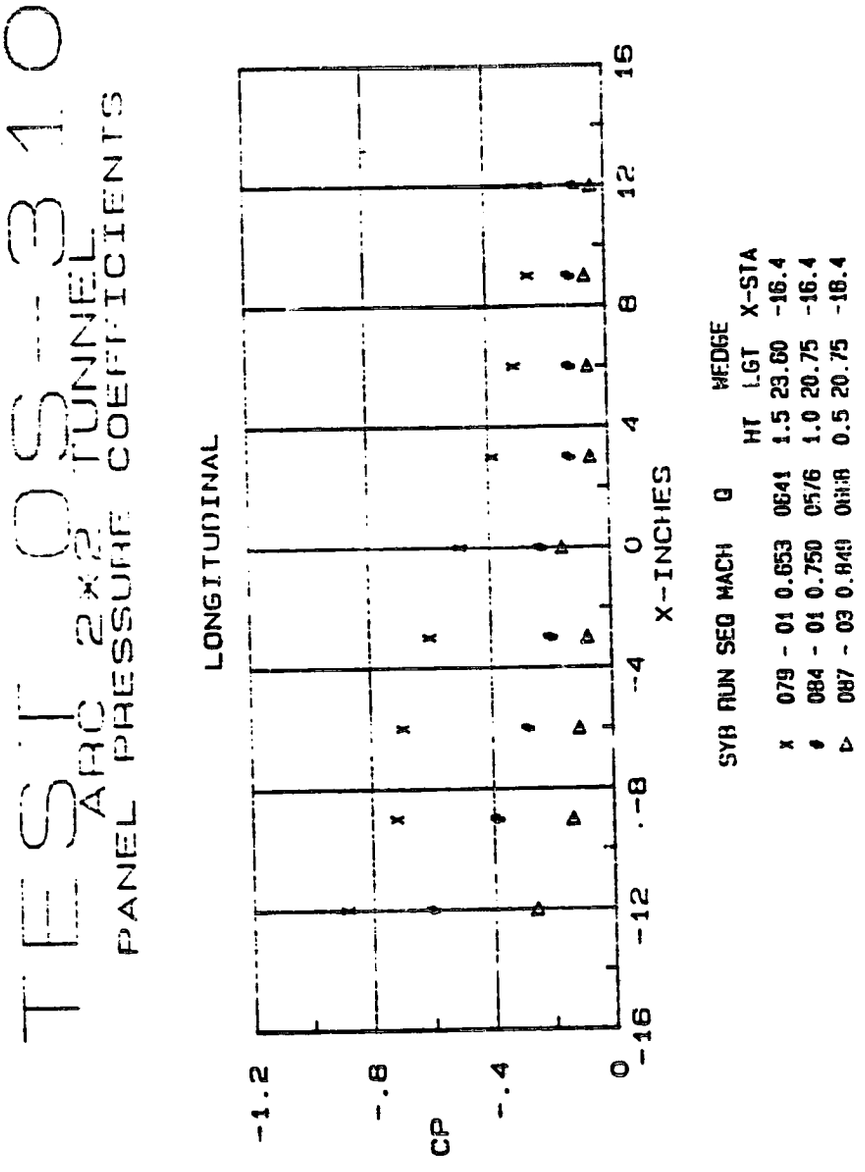

TEST OS-310
ARC 2X2 TUNNEL
PANEL PRESSURE COEFFICIENTS
LONGITUDINAL
CP
X-INCHES
-1.2
-.8
-.4
0
-16
-12
-8
-4
0
4
8
12
16
SYB RUN SEQ MACH Q WEDGE
HT LGT X-STA
x 079 - 01 0.653 0641 1.5 23.80 -16.4
• 084 - 01 0.750 0576 1.0 20.75 -16.4
Δ 087 - 03 0.849 0618 0.5 20.75 -16.4

FIGURE 6.B

TEST OS--310
ARC 2*2 TUNNEL
PANEL PRESSURE COEFFICIENTS
LONGITUDINAL
CP
X-INCHES
-1.2
-.8
-.4
0
-16
-12
-8
-4
0
4
8
12
16
SYB RUN SEQ MACH 0 WEDGE
HT LGT X-STA
v 081 - 01 0.851 0003 1.5 23.60 -16.4
■ 086 - 02 0.750 1005 1.0 20.75 -16.4
▼ 088 - 02 0.851 1004 0.5 20.75 -16.4

FIGURE 6.C

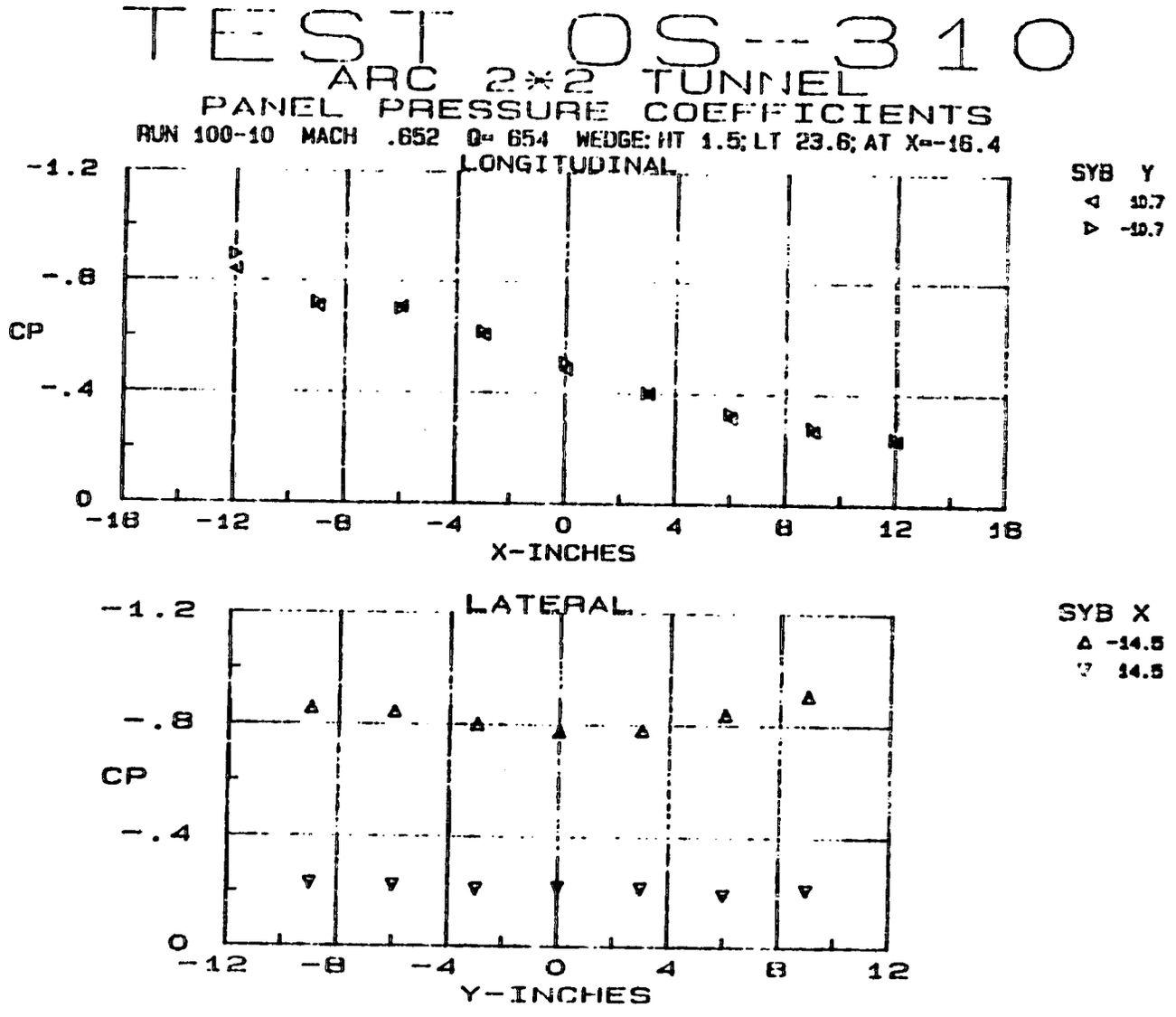

TEST OS--310
ARC 2*2 TUNNEL
PANEL PRESSURE COEFFICIENTS
RUN 100-10 MACH .652 Q= 654 WEDGE: HT 1.5; LT 23.6; AT X=-16.4
LONGITUDINAL
-1.2
-.8
-.4
0
CP
-18
-12
-8
-4
0
4
8
12
18
X-INCHES
SYB Y
10.7
-10.7
LATERAL
-1.2
-.8
-.4
0
CP
-12
-8
-4
0
4
8
12
Y-INCHES
SYB X
-14.5
14.5

FIGURE 7.A

TEST OS-310

ARC 2*2 TUNNEL

PANEL PRESSURE COEFFICIENTS

RUN 102-18 MACH .650 Q= 902 WEDGE: HT 1.5; LT 23.6; AT X=-16.4

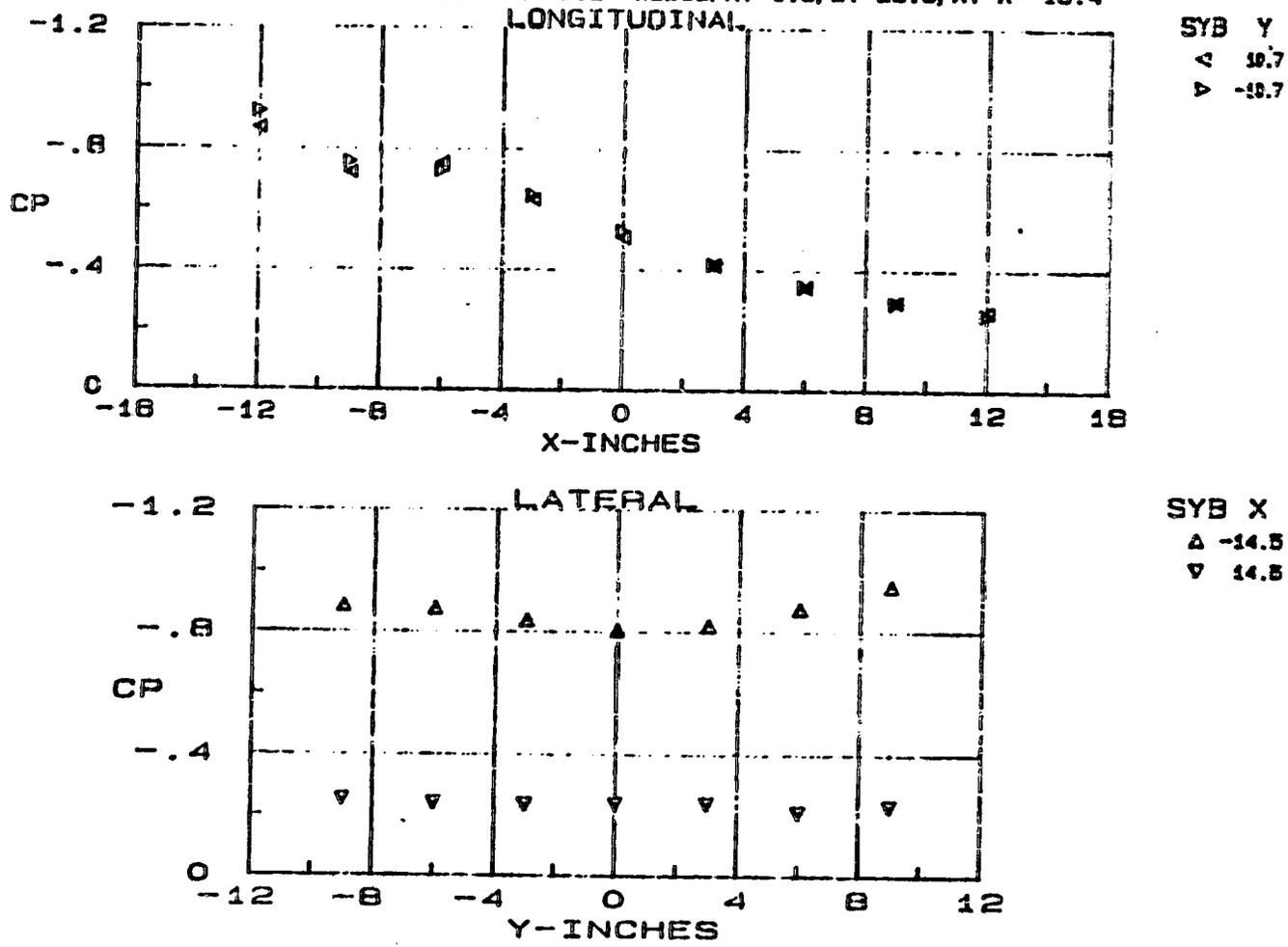


FIGURE 7.5

TEST OS-310

ARC 2*2 TUNNEL

PANEL PRESSURE COEFFICIENTS

RUN 103- 6 MACH .650 Θ= 90↑ WEDGE: HT 1.5; LT 23.6; AT X=-16.4

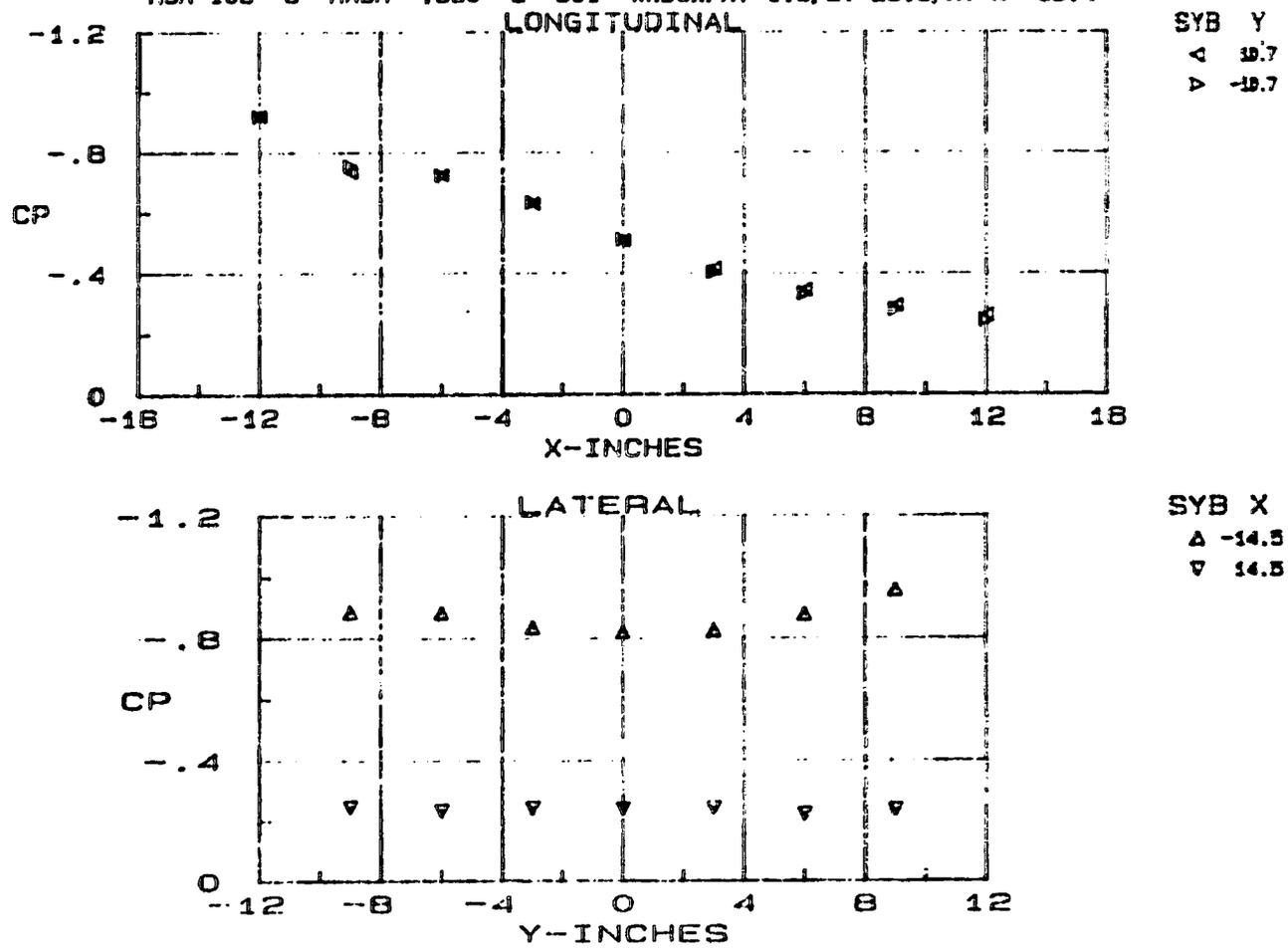


FIGURE 7.C

69

TEST OS-310

ARC 2*2 TUNNEL

PANEL PRESSURE COEFFICIENTS

RUN 104- 5 MACH .653 Q= 905 WEDGE: HT 1.5; LT 23.6; AT X=-16.4

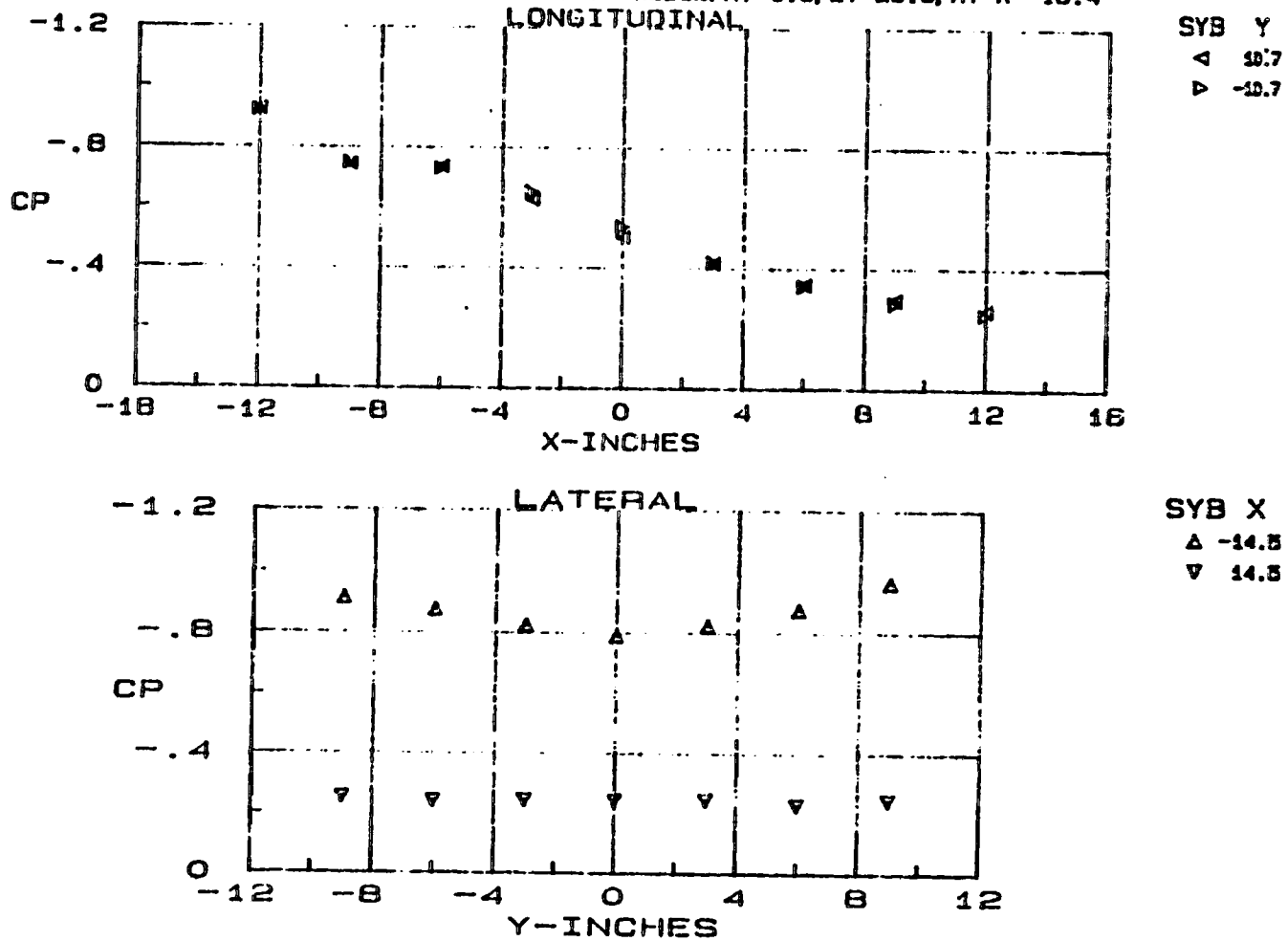


FIGURE 7.0

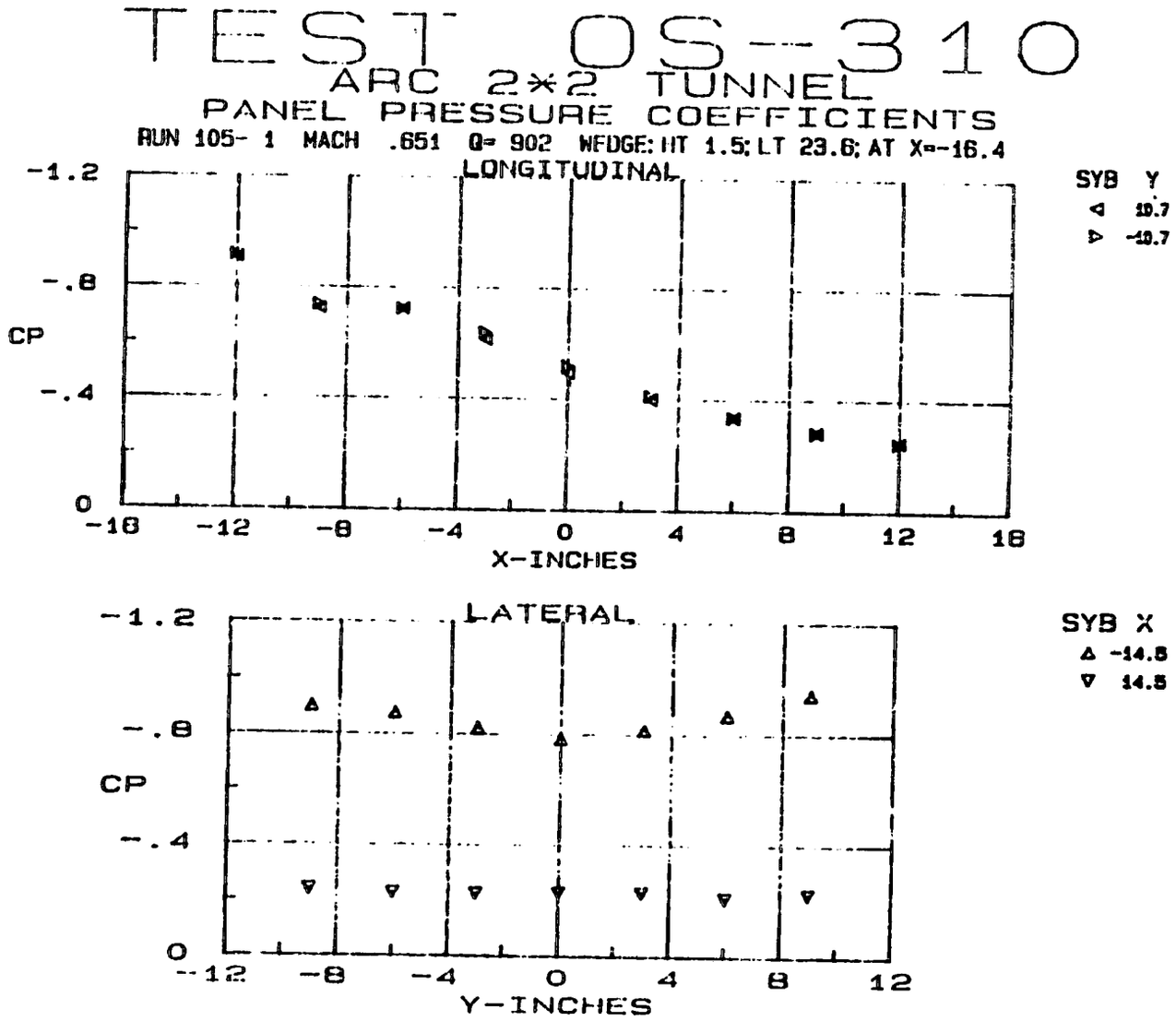

TEST OS-310
ARC 2*2 TUNNEL
PANEL PRESSURE COEFFICIENTS
RUN 105- 1 MACH .651 Q= 902 WEDGE: HT 1.5; LT 23.6; AT X=-16.4
LONGITUDINAL
SYB Y
-19.7
19.7
-1.2
-.8
-.4
0
CP
-16
-12
-8
-4
0
4
8
12
16
X-INCHES
LATERAL
SYB X
-14.5
14.5
-1.2
-.8
-.4
0
CP
-12
-8
-4
0
4
8
12
Y-INCHES

FIGURE 7.3

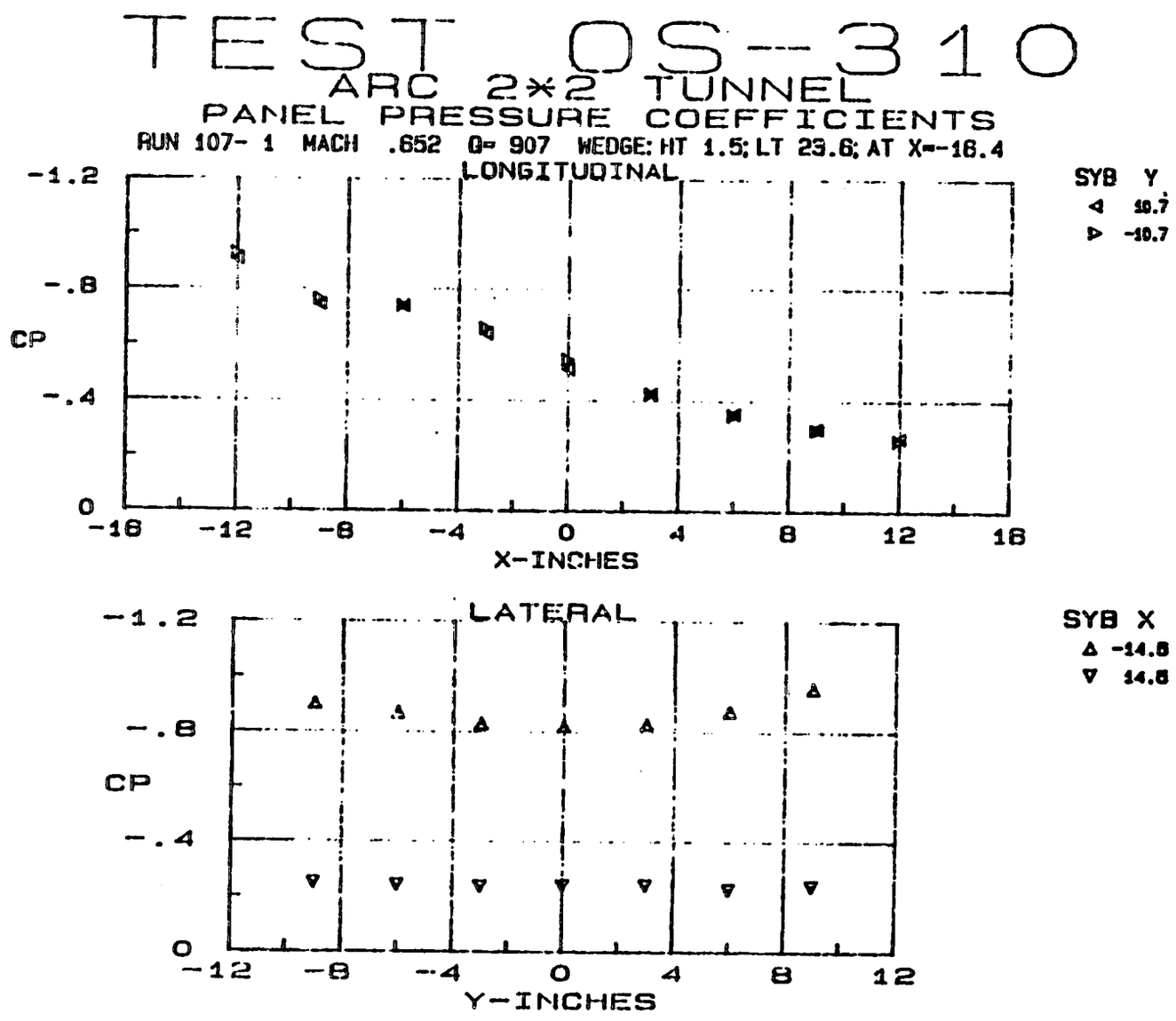

TEST OS-310
ARC 2*2 TUNNEL
PANEL PRESSURE COEFFICIENTS
RUN 107- 1 MACH .652 Q= 907 WEDGE: HT 1.5; LT 23.6; AT X=-16.4
LONGITUDINAL
SYB Y
10.7
-10.7
-1.2
-.8
-.4
0
CP
-16
-12
-8
-4
0
4
8
12
16
X-INCHES
LATERAL
SYB X
-14.8
14.8
-1.2
-.8
-.4
0
CP
-12
-8
-4
0
4
8
12
Y-INCHES

FIGURE 7.F

TEST OS--310

ARC 2*2 TUNNEL

PANEL PRESSURE COEFFICIENTS

RUN 108- 4 MACH .654 Q= 900 WEDGE: HT 1.5; LT 23.6; AT X=-18.4

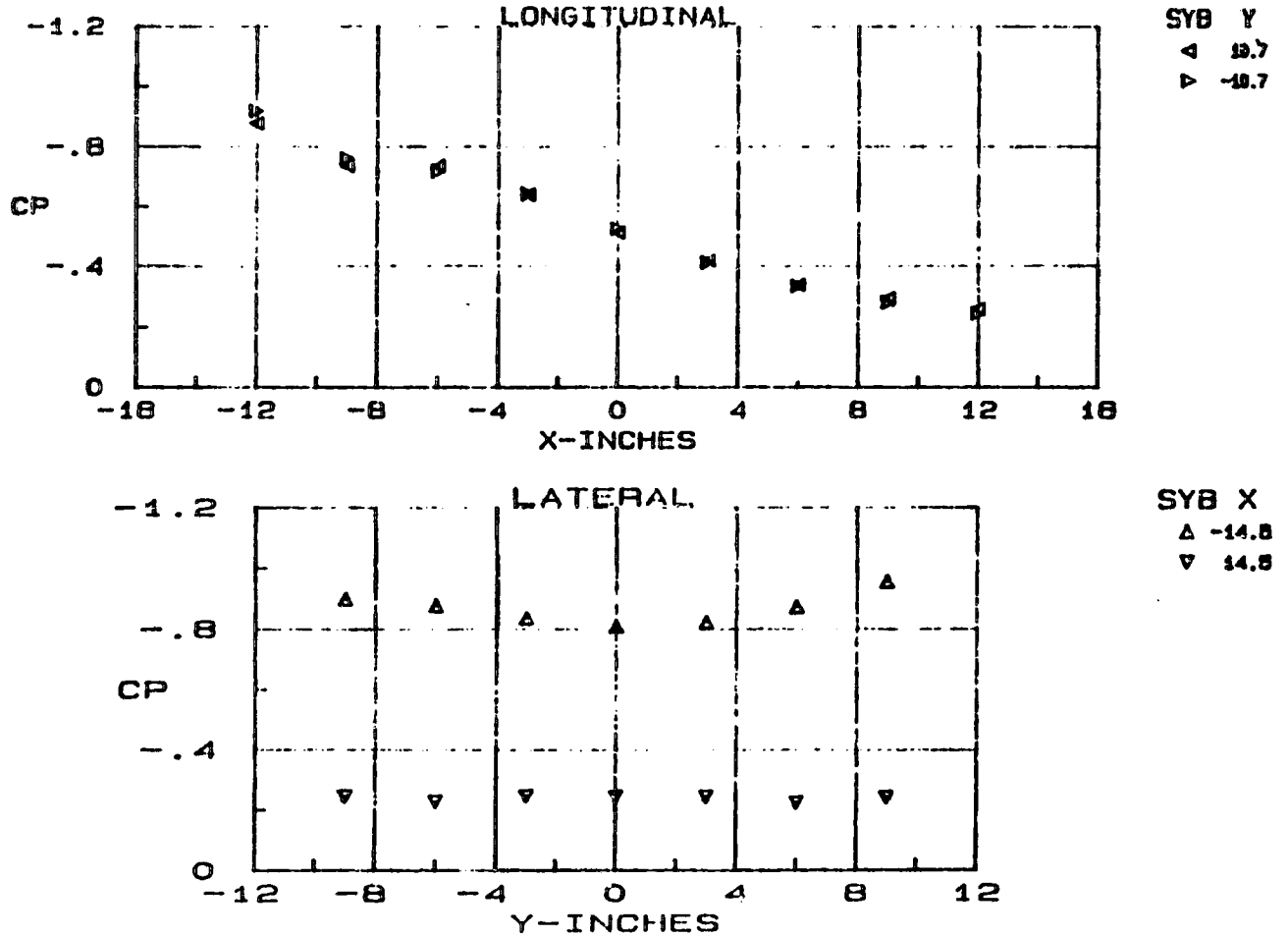


FIGURE 7.3

FIGURE 7.H

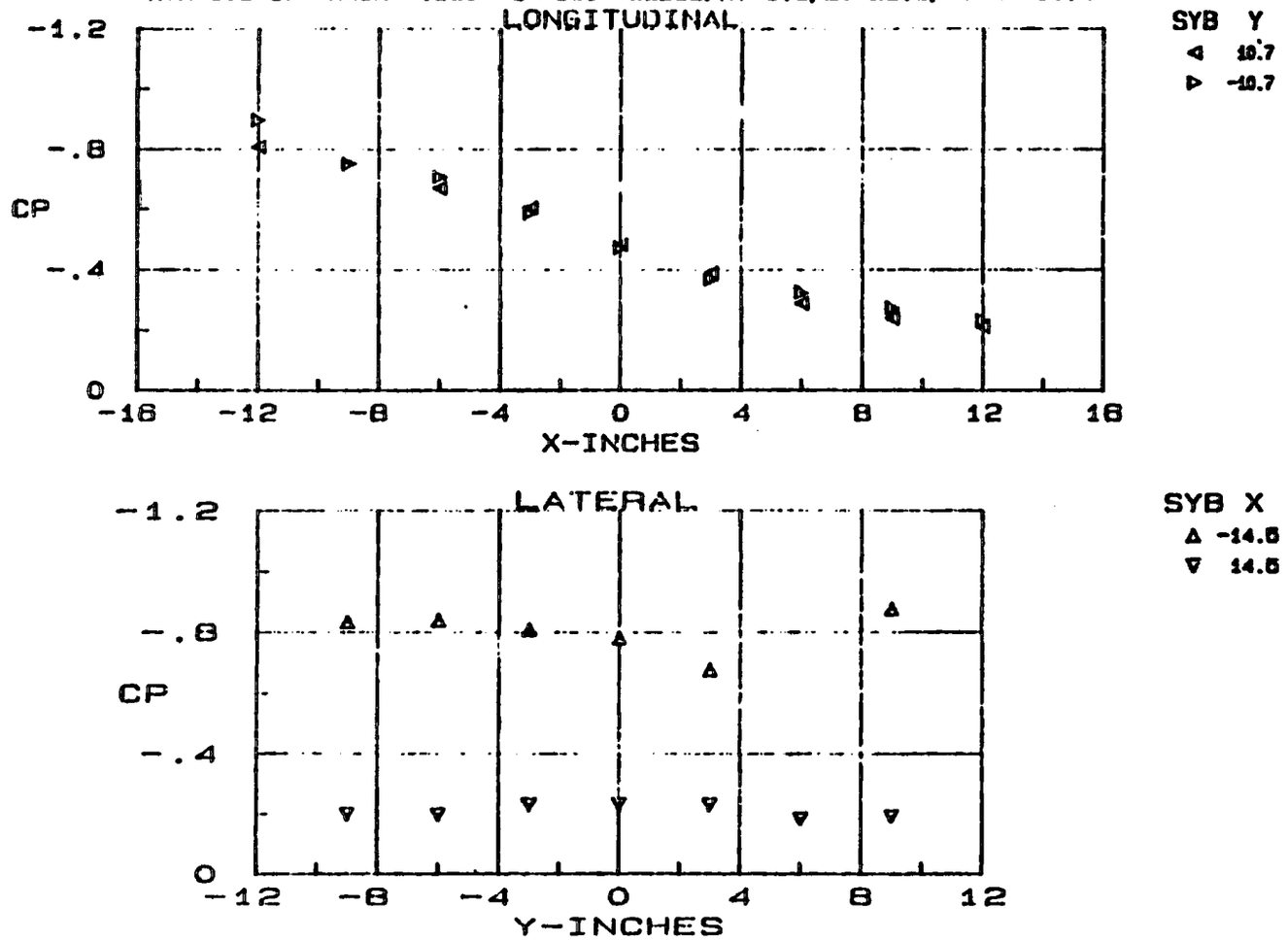
70

TEST OS-310

ARC 2*2 TUNNEL

PANEL PRESSURE COEFFICIENTS

RUN 109-17 MACH .850 Q= 651 WEDGE: HT 1.5; LT 23.6; AT X=-18.4



TEST OS-310

ARC 2*2 TUNNEL

PANEL PRESSURE COEFFICIENTS

RUN 110- 4 MACH .652 Q= 904 WEDGE: HT 1.5; LT 23.6; AT X=-18.4

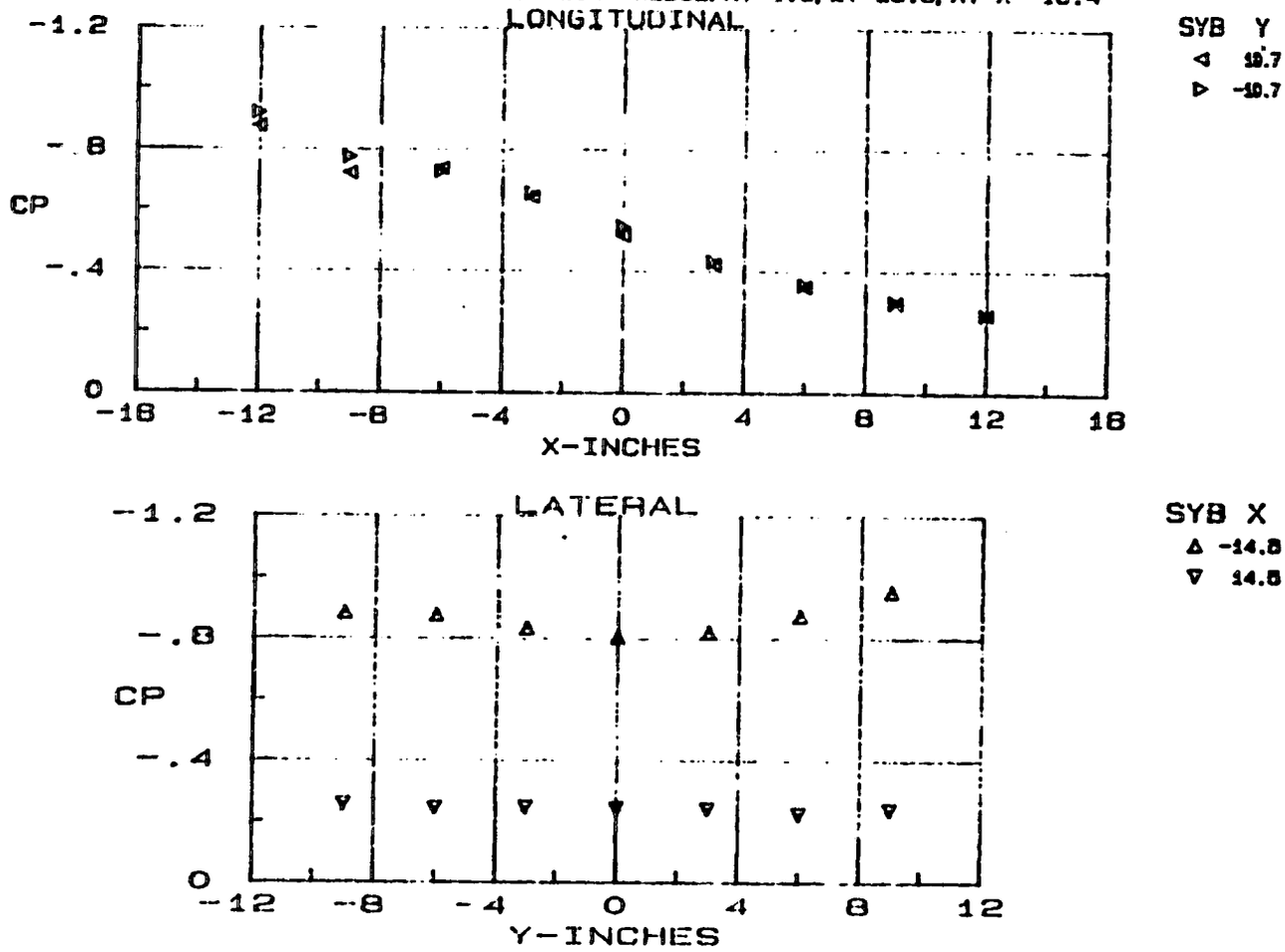


FIGURE 7.1

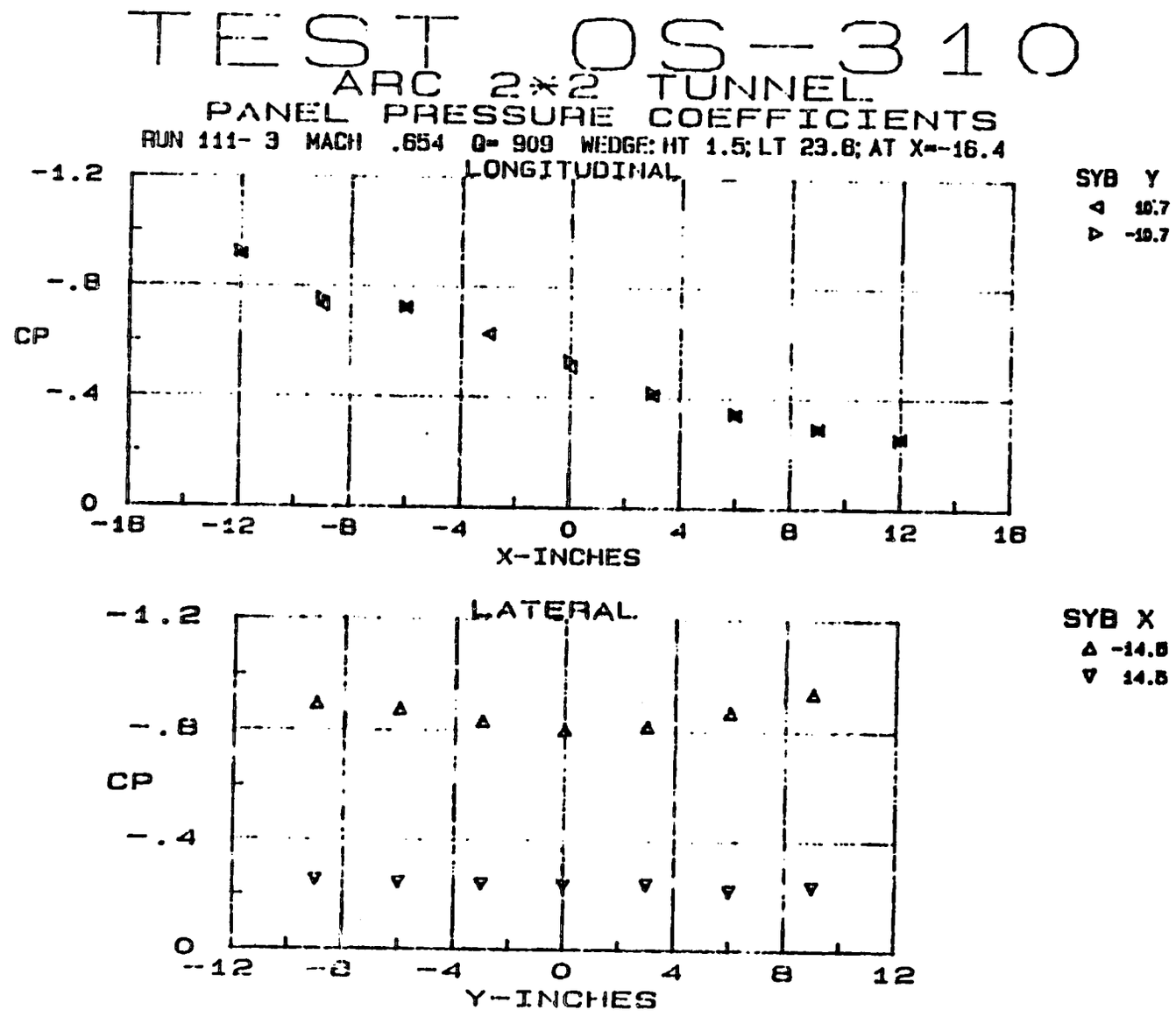

TEST OS-310
ARC 2*2 TUNNEL
PANEL PRESSURE COEFFICIENTS
RUN 111- 3 MACH .654 Q= 909 WEDGE: HT 1.5; LT 23.8; AT X=-16.4
LONGITUDINAL
-1.2
-.8
-.4
0
CP
-16
-12
-8
-4
0
4
8
12
16
X-INCHES
SYB Y
-19.7
-19.7
LATERAL
-1.2
-.8
-.4
0
CP
-12
-8
-4
0
4
8
12
Y-INCHES
SYB X
-14.5
14.5

FIGURE 7.J

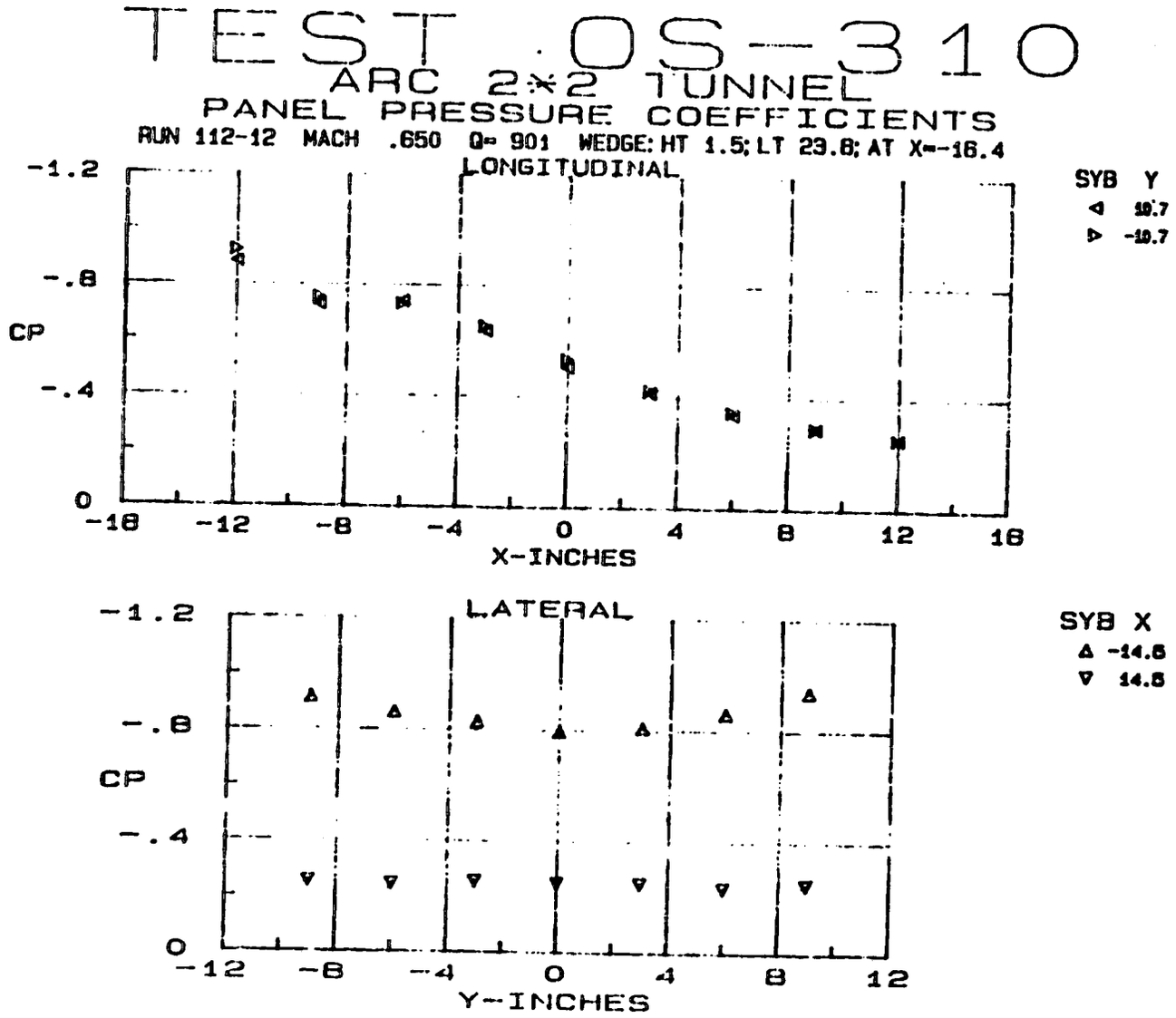

TEST OS-310
ARC 2×2 TUNNEL
PANEL PRESSURE COEFFICIENTS
RUN 112-12 MACH .650 Q= 901 WEDGE: HT 1.5; LT 23.8; AT X=-16.4
LONGITUDINAL
SYB Y
-19.7
19.7
-1.2
-.8
-.4
0
CP
-18
-12
-8
-4
0
4
8
12
16
X-INCHES
LATERAL
SYB X
-14.6
14.6
-1.2
-.8
-.4
0
CP
-12
-8
-4
0
4
8
12
Y-INCHES

FIGURE 7.K

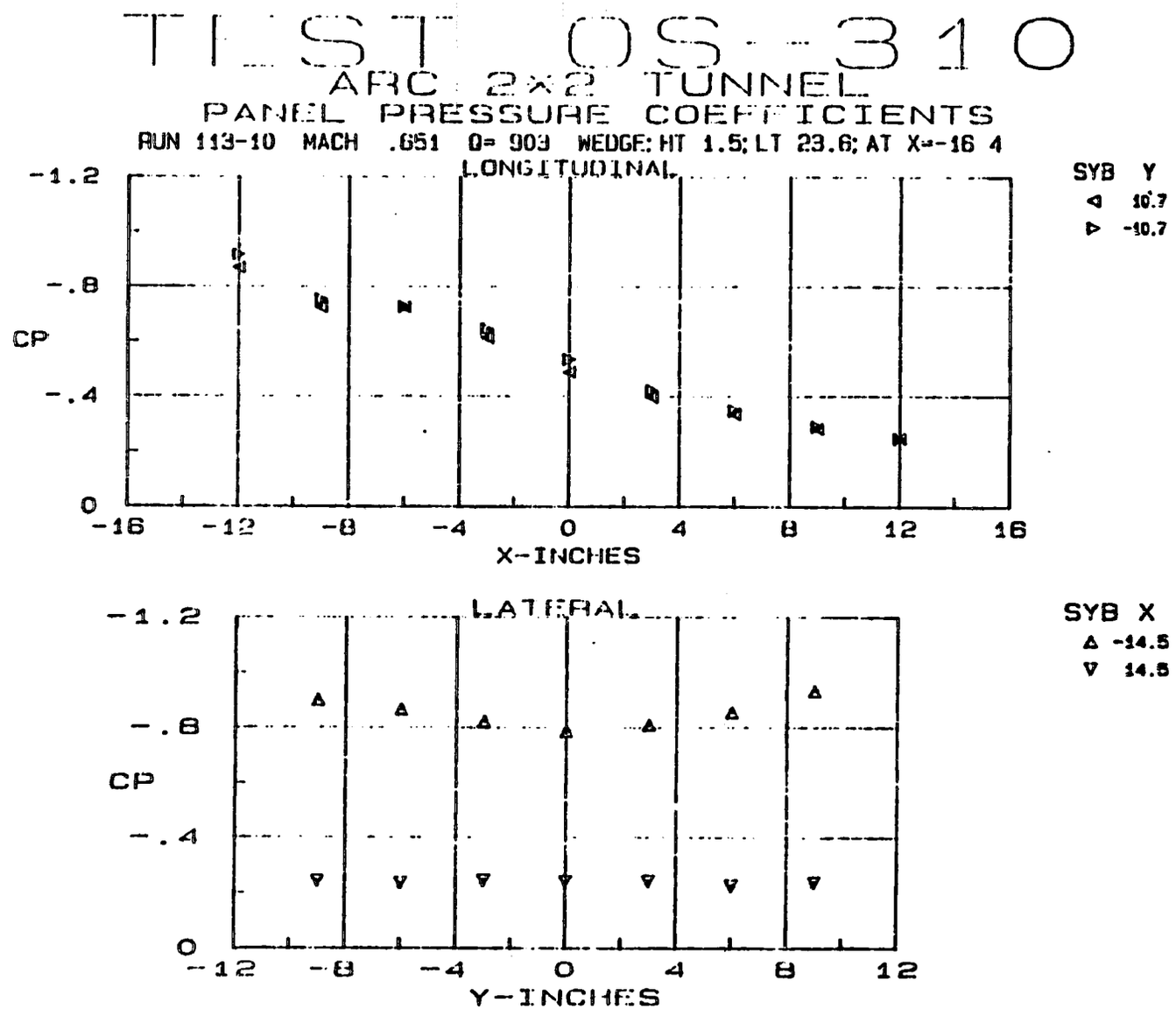

TEST OS-310
ARC 2x2 TUNNEL
PANEL PRESSURE COEFFICIENTS
RUN 113-10 MACH .651 Q= 903 WEDGE: HT 1.5; LT 23.6; AT X=-16 4
LONGITUDINAL
SYB Y
10.7
-10.7
-1.2
-.8
-.4
0
CP
-16
-12
-8
-4
0
4
8
12
16
X-INCHES
LATERAL
SYB X
-14.5
14.5
-1.2
-.8
-.4
0
CP
-12
-8
-4
0
4
8
12
Y-INCHES

FIGURE 7.1

TEST OS-310

ARC 2×2 TUNNEL

PANEL PRESSURE COEFFICIENTS

RUN 114- 7 MACH .651 Q= 652 WEDGE: HT 1.5; LT 23.6; AT X=-16.4

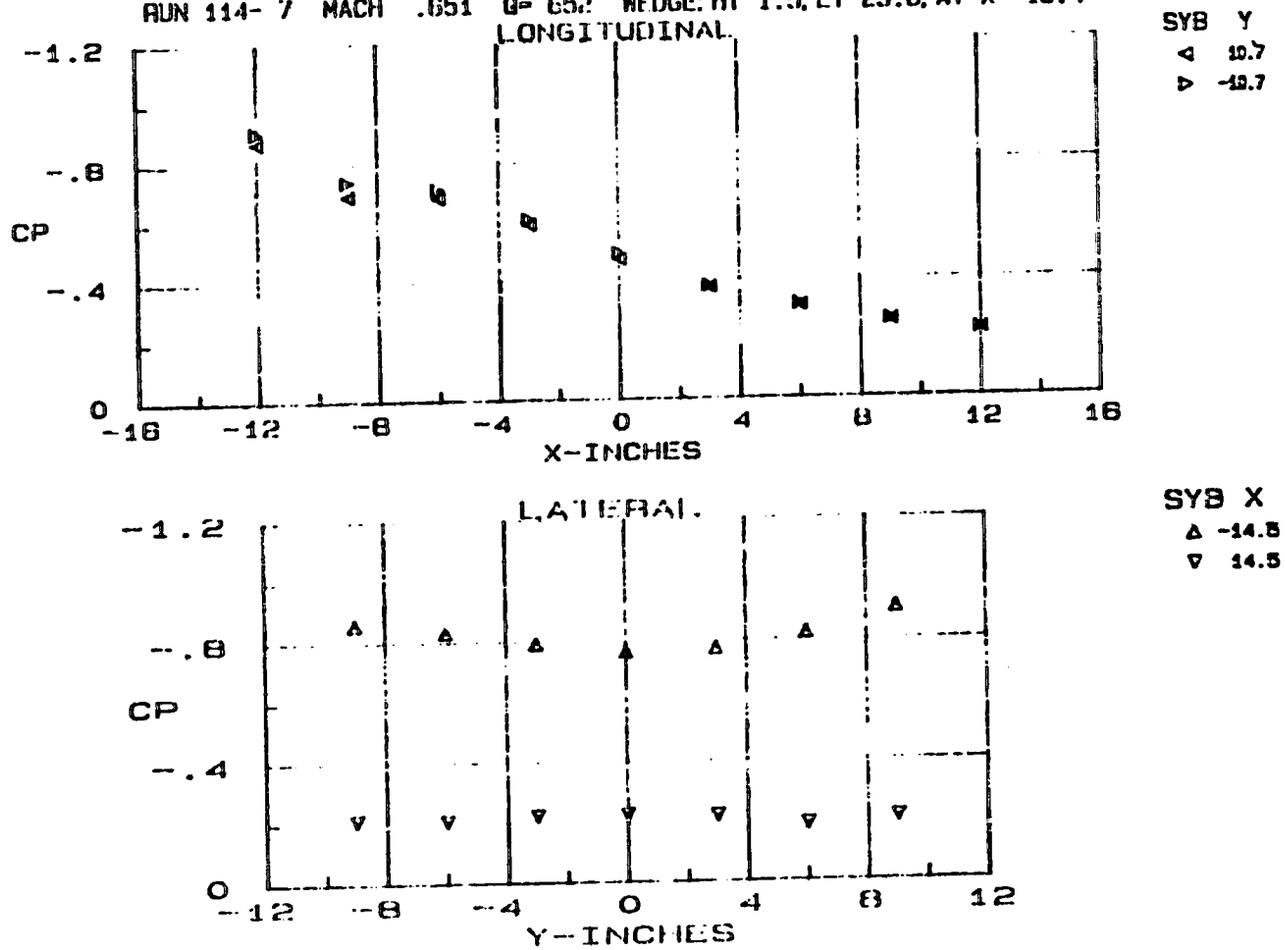


FIGURE 7.M

TEST OS-310

ARC 2*2 TUNNEL

PANEL PRESSURE COEFFICIENTS

RUN 115- 6 MACH .652 Q= 653 WEDGE: HT 1.5; LT 23.6; AT X=-16.4

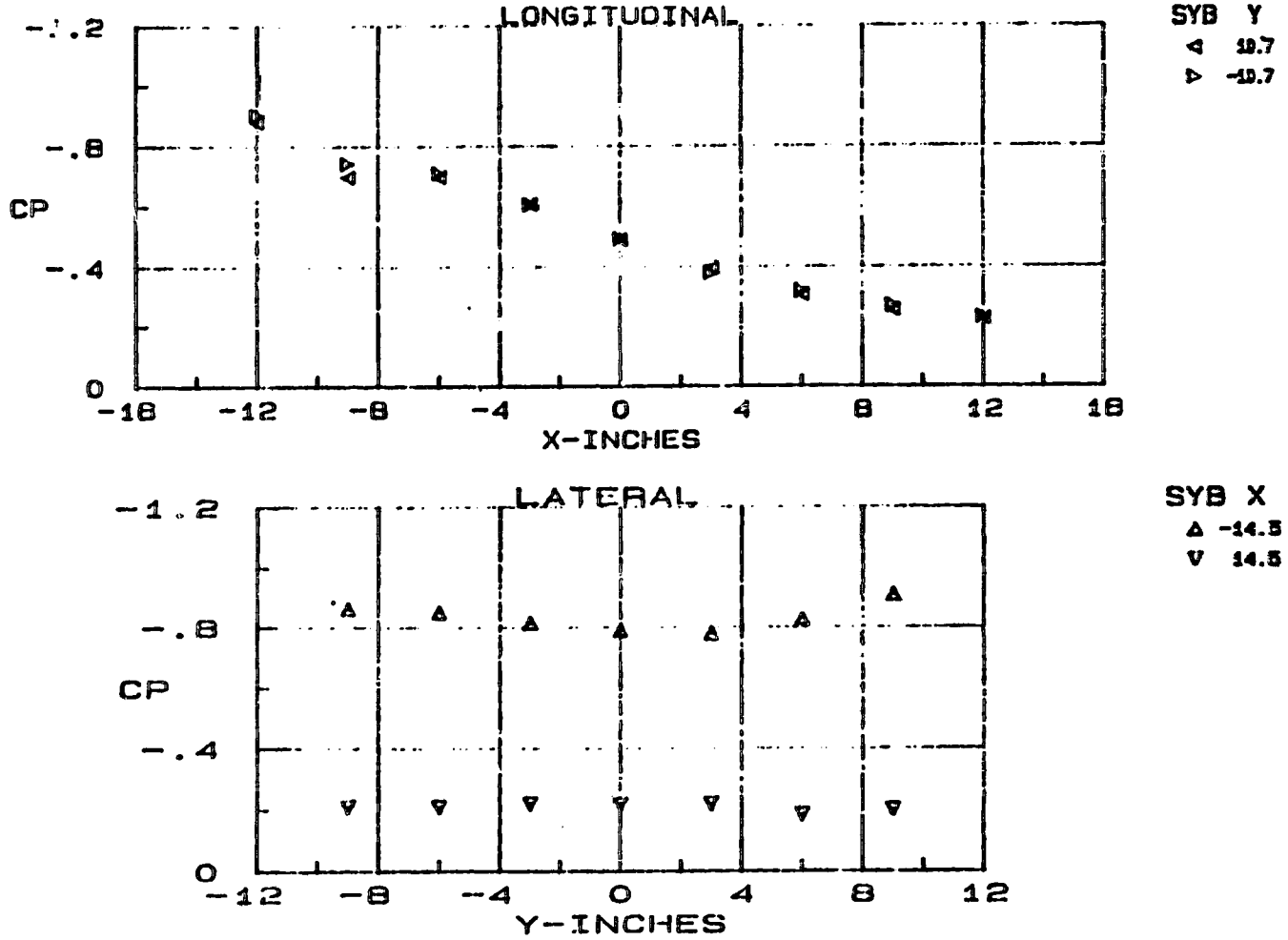


FIGURE 7.N

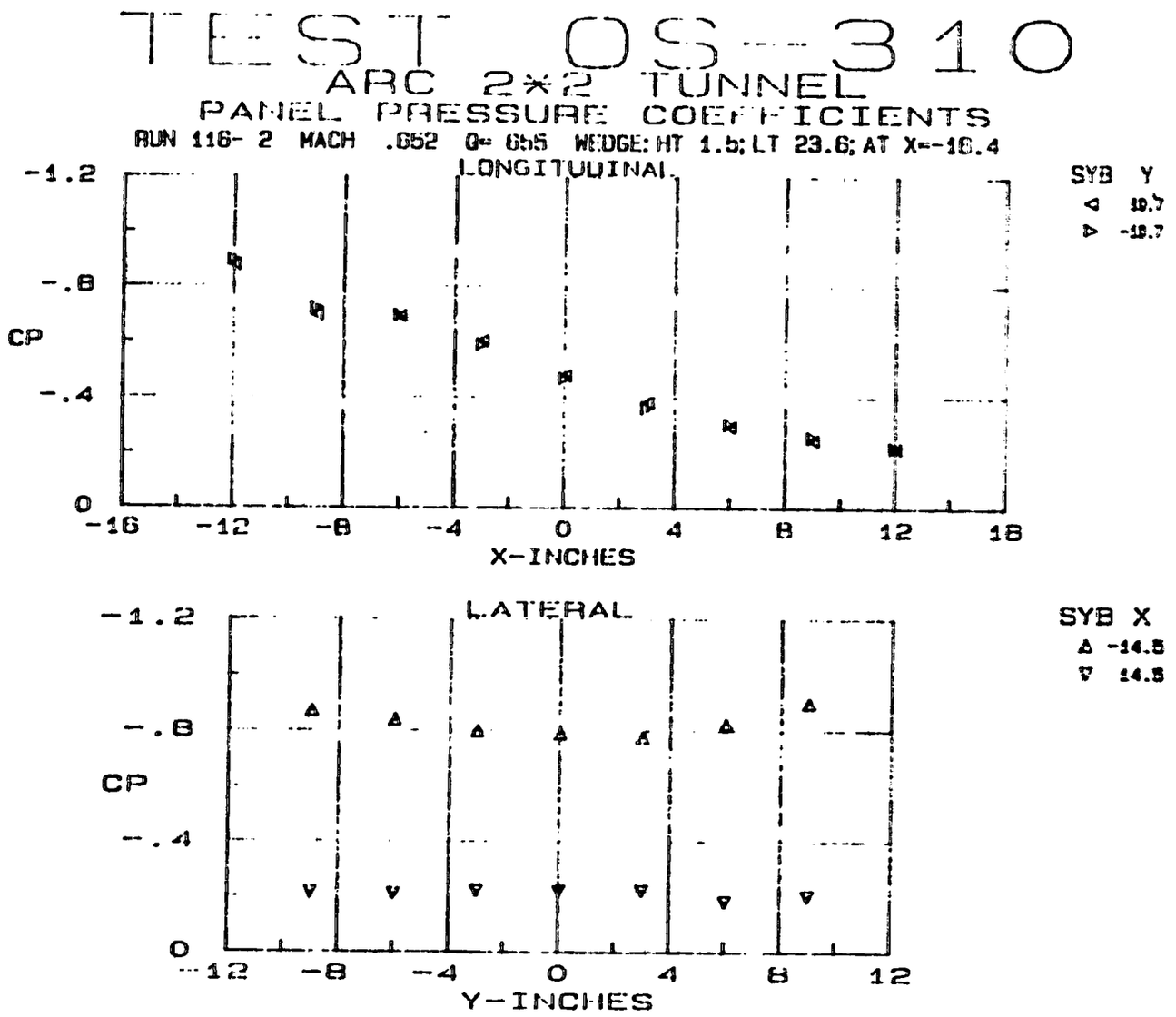

TEST OS-310
ARC 2*2 TUNNEL
PANEL PRESSURE COEFFICIENTS
RUN 116- 2 MACH .652 Q= 655 WEDGE: HT 1.5; LT 23.6; AT X=-18.4
LONGITUDINAL
SYB Y
19.7
-19.7
-1.2
-.8
-.4
0
CP
-16 -12 -8 -4 0 4 8 12 16
X-INCHES
LATERAL
SYB X
-14.5
14.5
-1.2
-.8
-.4
0
CP
-12 -8 -4 0 4 8 12
Y-INCHES

FIGURE 7.0

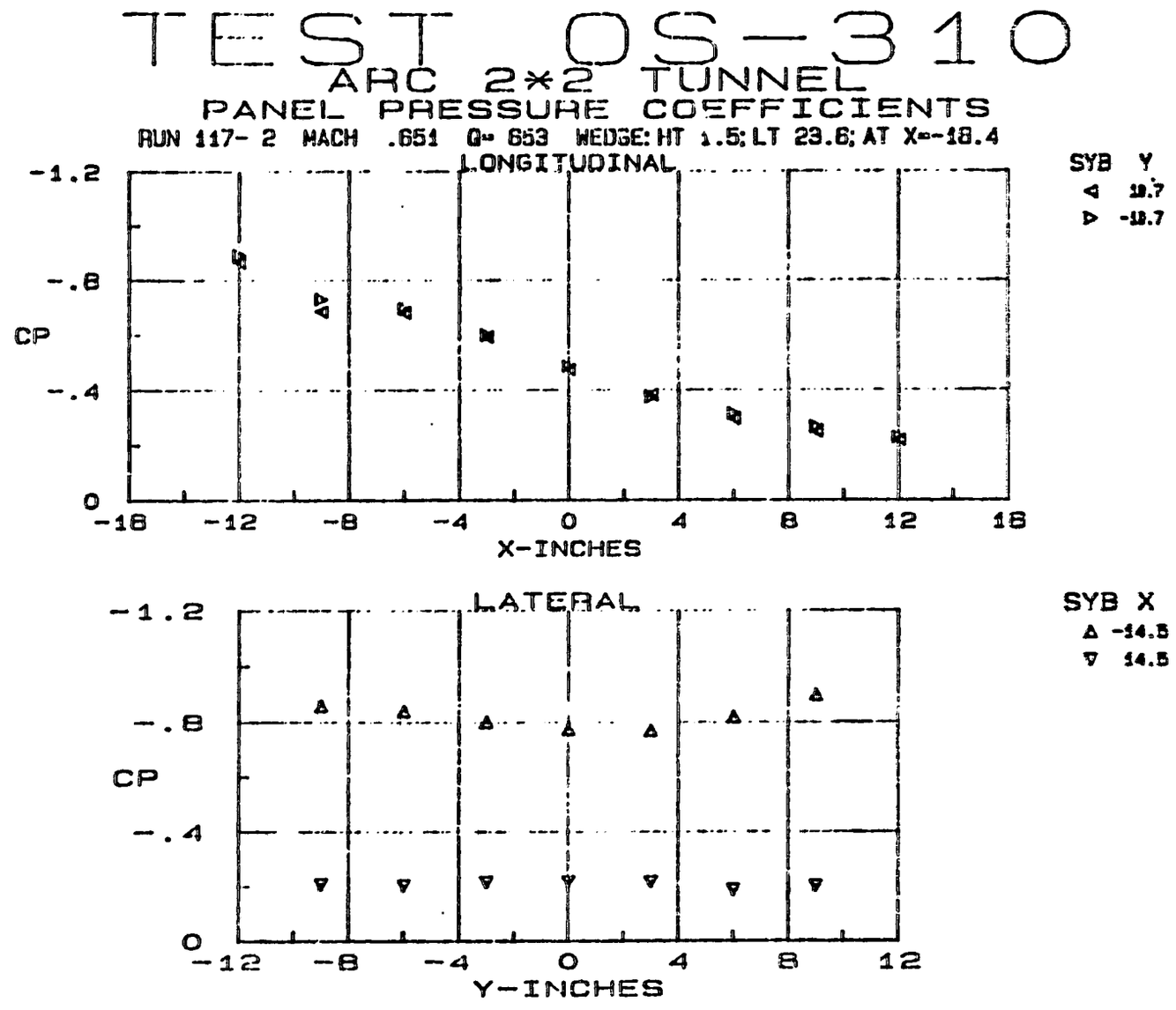

TEST OS-310
ARC 2*2 TUNNEL
PANEL PRESSURE COEFFICIENTS
RUN 117- 2 MACH .651 Q= 653 WEDGE: HT 1.5; LT 23.6; AT X=-18.4
LONGITUDINAL
SYB Y
-1.2
-.8
-.4
0
CP
-16 -12 -8 -4 0 4 8 12 16
X-INCHES
LATERAL
SYB X
-14.5
14.5
-1.2
-.8
-.4
0
CP
-12 -8 -4 0 4 8 12
Y-INCHES

FIGURE 7.P

TEST OS--310

ARC 2×2 TUNNEL

PANEL PRESSURE COEFFICIENTS

RUN 116- 2 MACH .654 Q= 659 WEDGE: RT 1.5; LT 23.6; AT X=-16.4

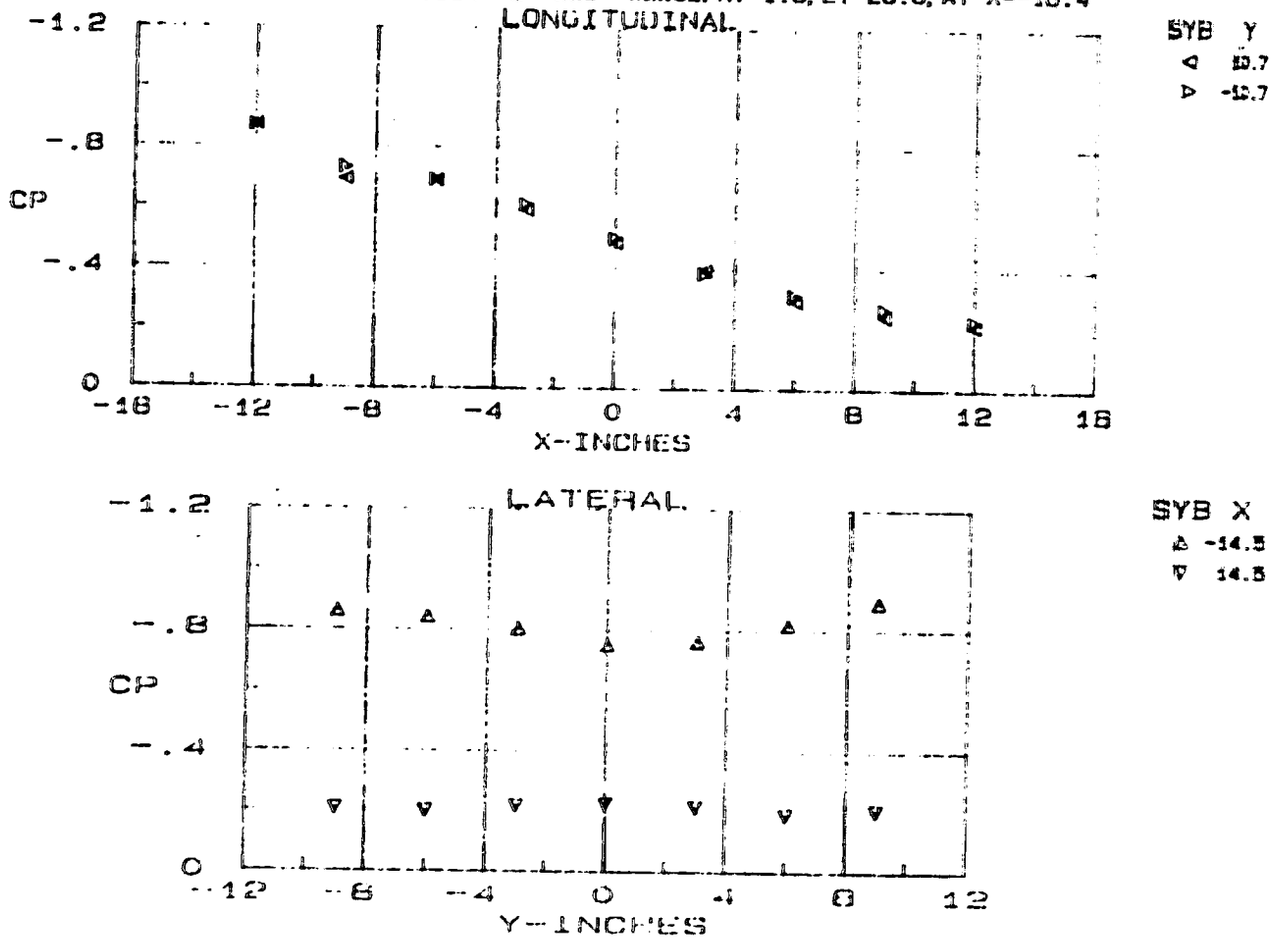


FIGURE 7.9

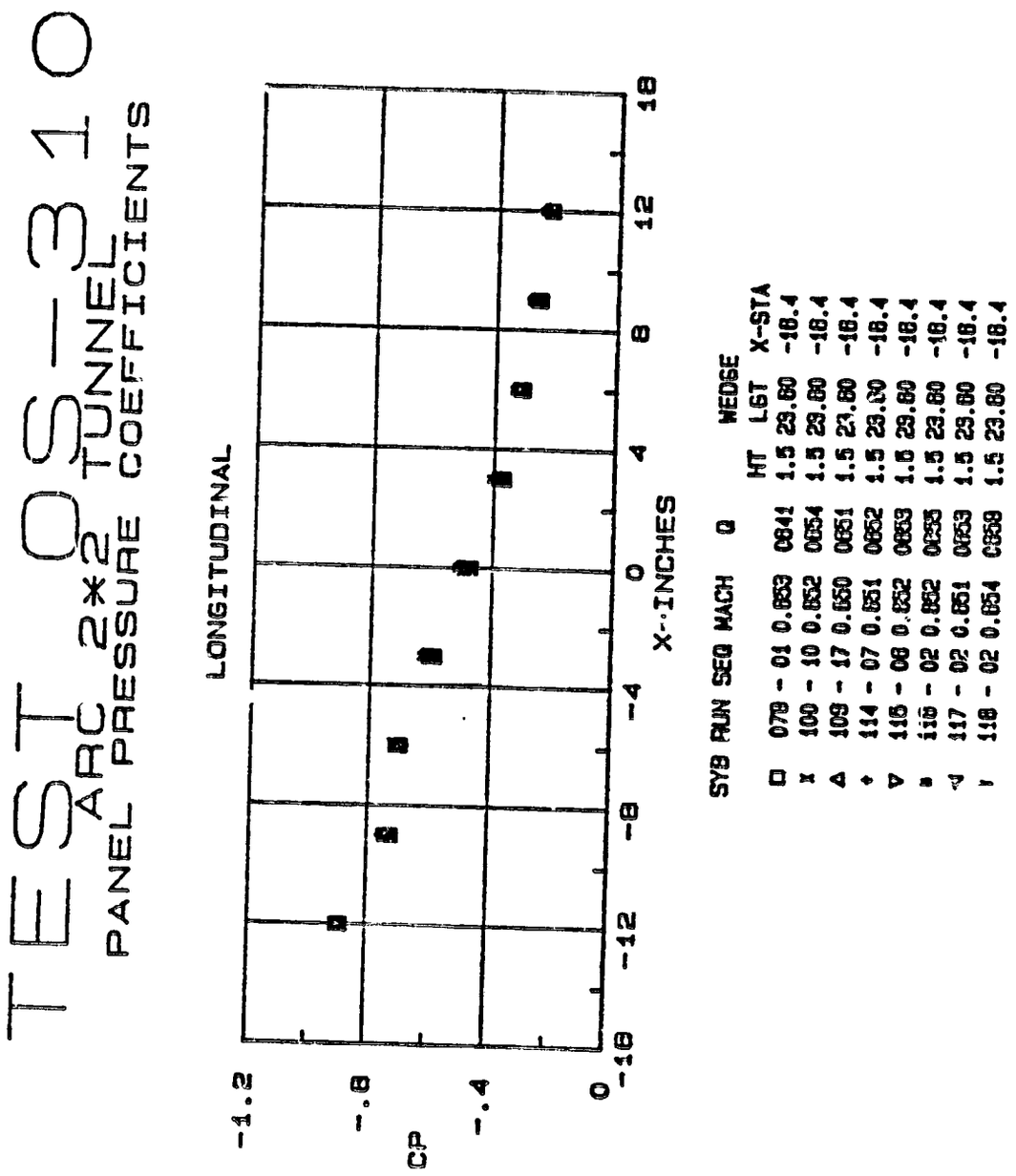

TEST OS-310
ARC 2*2 TUNNEL
PANEL PRESSURE COEFFICIENTS
LONGITUDINAL
CP
X-INCHES
-1.2
-.8
-.4
0
-16
-12
-8
-4
0
4
8
12
16
SYB RUN SEQ MACH Q WEDGE
HT LGT X-STA
□ 078 - 01 0.853 0841 1.5 23.80 -18.4
× 100 - 10 0.852 0854 1.5 23.80 -18.4
△ 109 - 17 0.850 0851 1.5 23.80 -18.4
◇ 114 - 07 0.851 0852 1.5 23.80 -18.4
▽ 115 - 08 0.852 0853 1.5 23.80 -18.4
■ 116 - 02 0.852 0853 1.5 23.80 -18.4
◁ 117 - 02 0.851 0853 1.5 23.80 -18.4
▷ 118 - 02 0.854 0858 1.5 23.80 -18.4

FIGURE 5.A

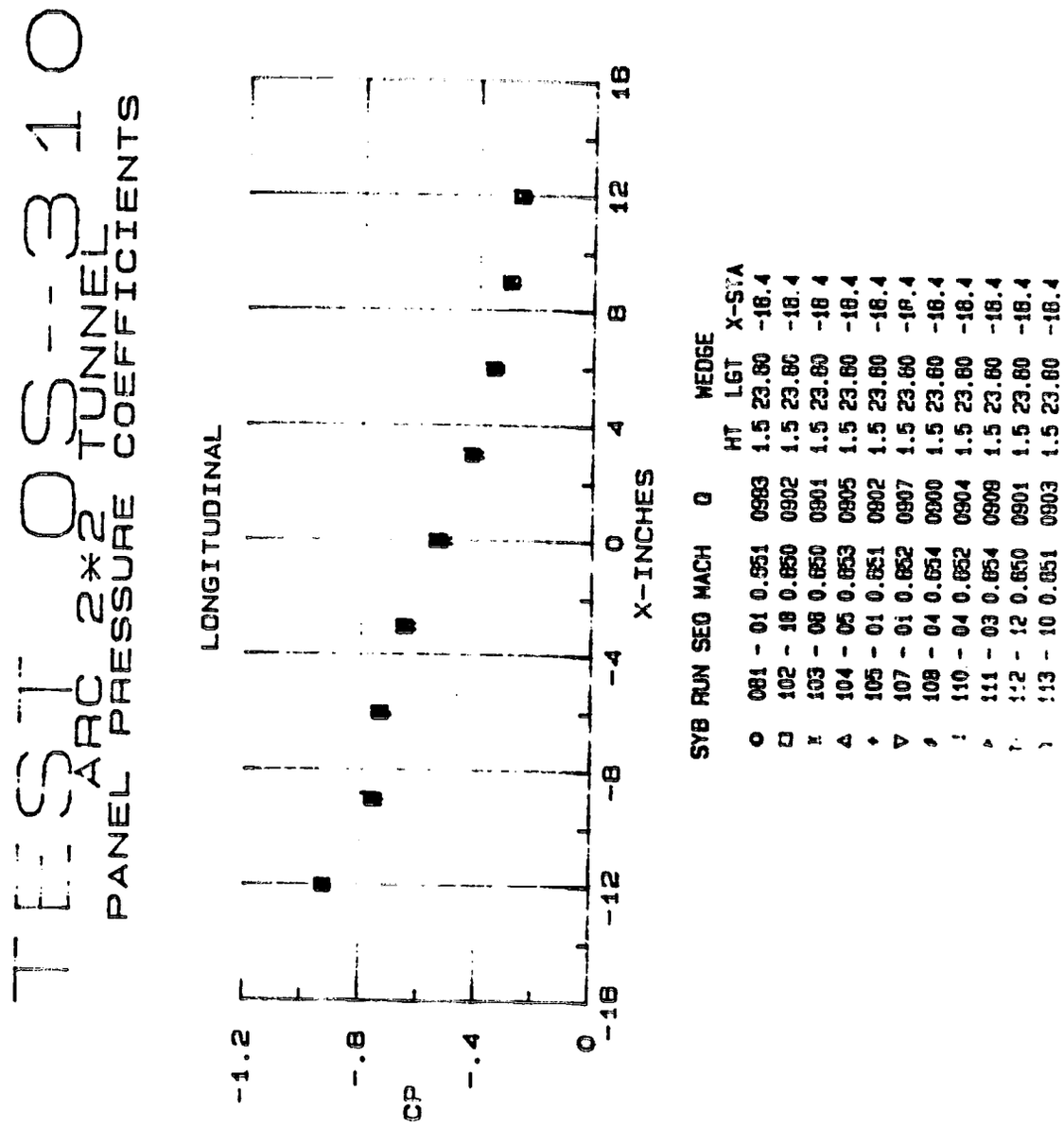
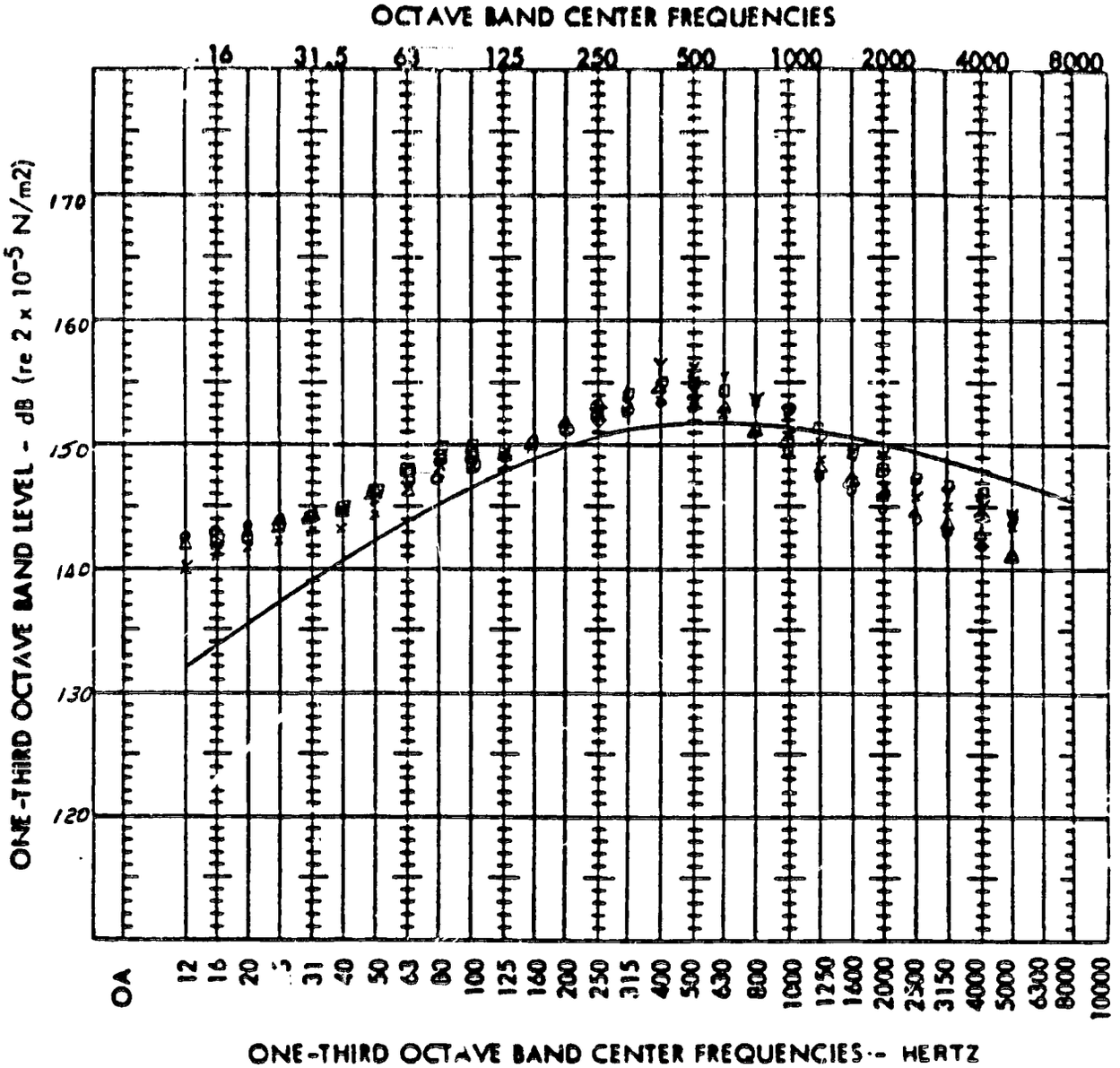

TEST OS--310
ARC 2*2 TUNNEL
PANEL PRESSURE COEFFICIENTS
LONGITUDINAL
X-INCHES
CP
-1.2
-.8
-.4
0
-16
-12
-8
-4
0
4
8
12
16
SYB RUN SEQ MACH Q WEDGE HT LGT X-STA
○ 001 - 01 0.851 0903 1.5 23.80 -16.4
□ 102 - 10 0.850 0902 1.5 23.80 -16.4
✕ 103 - 08 0.850 0901 1.5 23.80 -16.4
△ 104 - 05 0.853 0905 1.5 23.80 -16.4
◆ 105 - 01 0.851 0902 1.5 23.80 -16.4
▽ 107 - 01 0.852 0907 1.5 23.80 -16.4
108 - 04 0.854 0900 1.5 23.80 -16.4
110 - 04 0.852 0904 1.5 23.80 -16.4
111 - 03 0.854 0909 1.5 23.80 -16.4
112 - 12 0.850 0901 1.5 23.80 -16.4
113 - 10 0.851 0903 1.5 23.80 -16.4

FIGURE 5.B



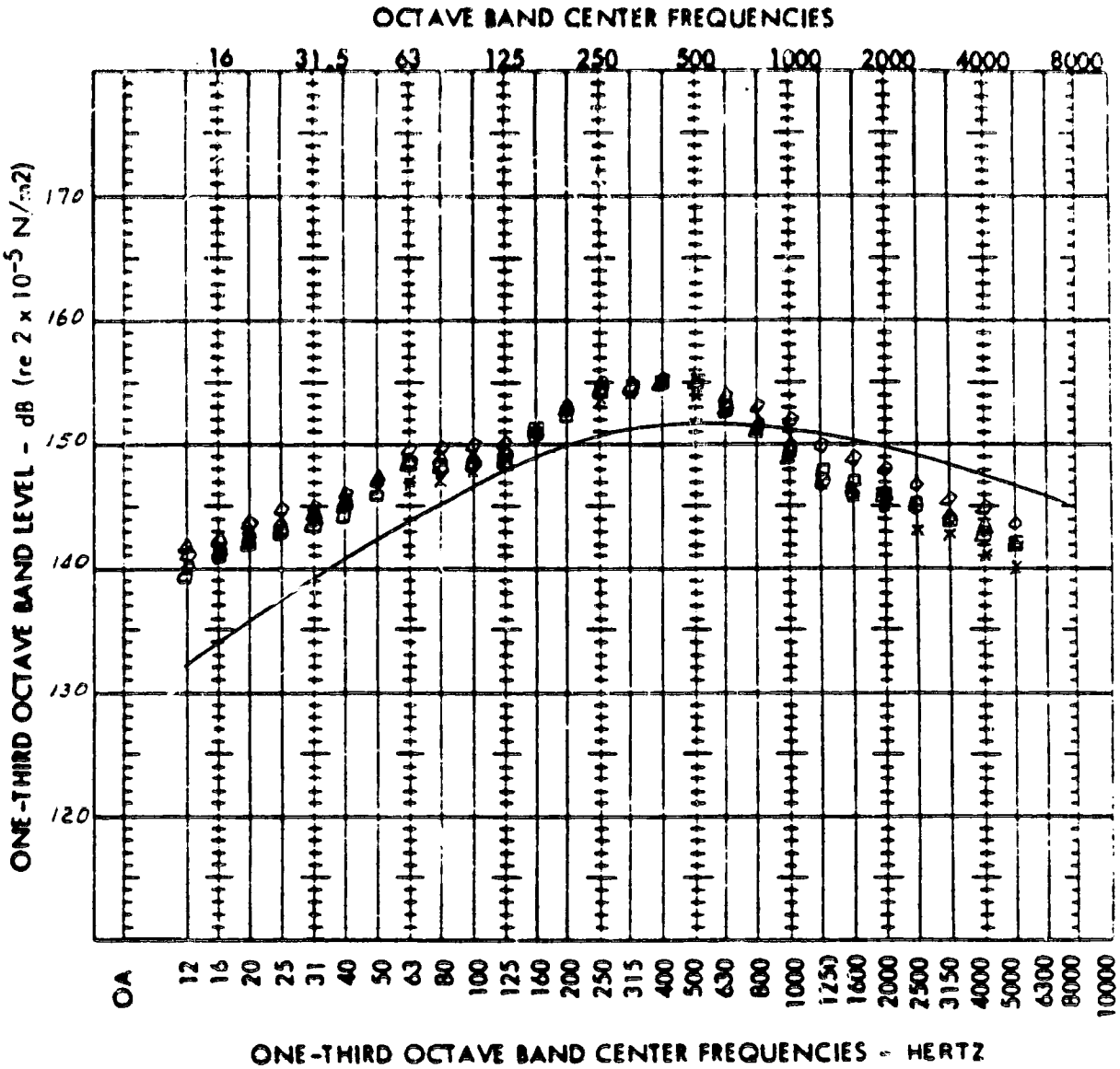
KULITE

Q = 640 PSF
MACH = 0.65

X — No. 1
O — No. 3
Δ — No. 5
□ — No. 6
Y — No. 7

——— PREDICTED LEVEL FOR CANOPY TOP (NOMINAL) FROM SD-74-SH-0082A

FIGURE 9.A



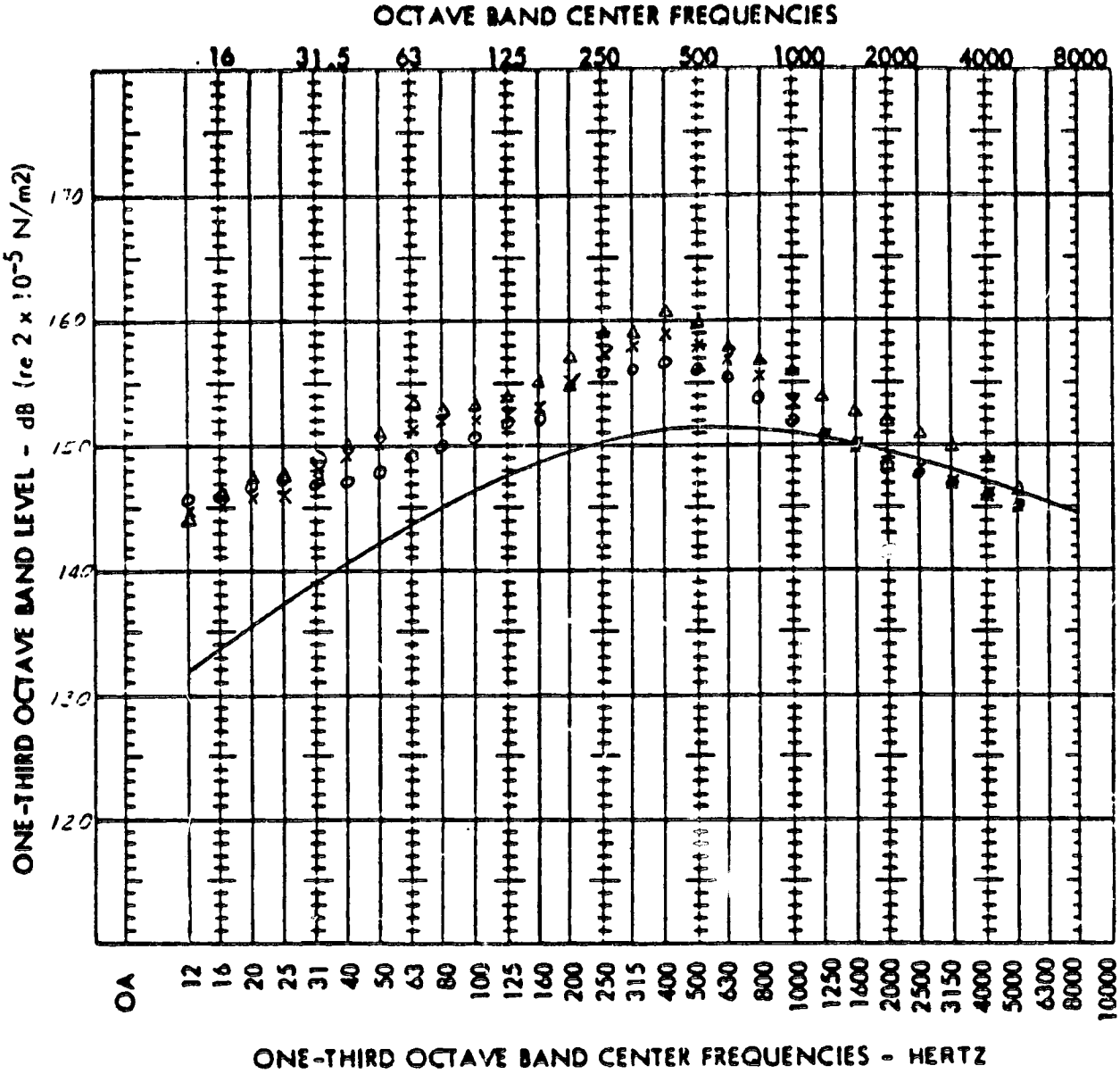
KULITE

× — No. 9
○ — No. 10
△ — No. 11
□ — No. 12
Y — No. 15
◇ — No. 18

Q = 640 PSF
MACH = 0.65

——— PREDICTED LEVEL FOR CANOPY TOP (NOMINAL) FROM SD-74-SN-0082A

FIGURE 9.1

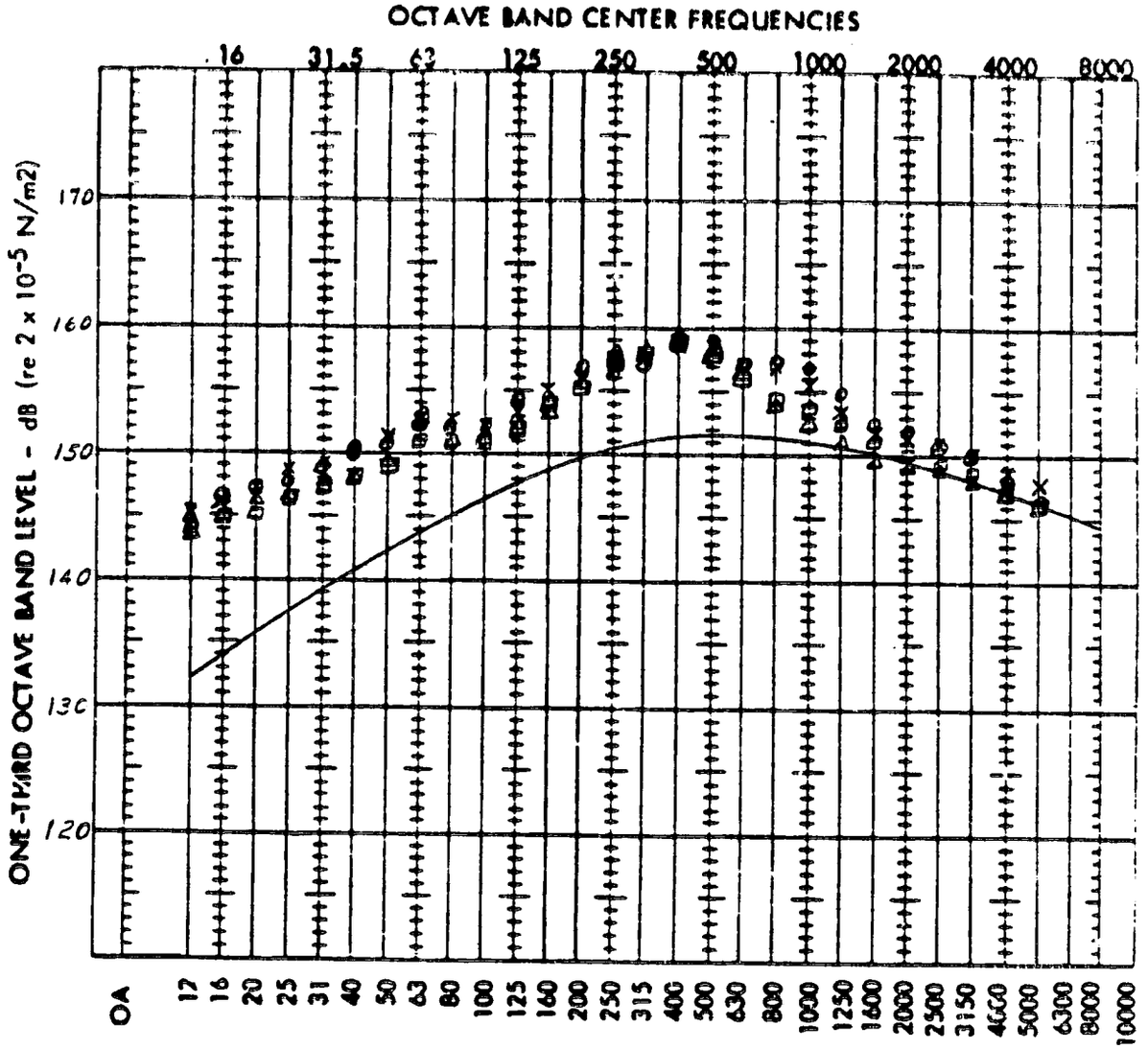


○ – NO. 3
× – NO. 5
△ – NO. 7

Q = 990 PSF
MACH = 0.65

——— PREDICTED LEVEL FOR CANOPY TOP [NOMINAL] FROM SD-74-SH-0082A

FIGURE 10.A



△ — No. 10
□ — No. 11
X — No. 15
O — No. 21

Q = 990 PSF
MACH = 0.65

——— PREDICTED LEVEL FOR CANOPY TOP (NOMINAL) FROM SD-74-SH-0082A

FIGURE 10.B

APPENDIX A

Time-Averaged Pressure Coefficient Tabulated Data

TEST OS-310

DATA SHEET IDENTIFICATION

RUN: SEQ
XXX: XXX

MACH	PT	P	Q	RN	TTF	RO	HW	CONF	TIME
XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX

W01	W02	W03	W04	W05	W06	W07	W08	W09	W11	W12	W13	W14	W15	W16	W17
XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX

W18	W19	W21	W22	W23	W24	W25	W26	W27	W31	W32	W33	W34	W35	W36	W37
XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX

W43	W44	W45	W46	W47	W53	W54	W55	W56	W57	W63	W64	W65	W66	W67
XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX

```
1
1TST-560 PH-1 TA-22  40:6          ID-PRESSOUT3          10 JAN 83017:43      PAGE   0.
QP 1 7 77.F 300 TRANSMIT POUT3 TAPE=WAHDE9
1TST-560 PH-1 TA-22  40:6          ID-PRESSOUT3          10 JAN 83017:43      PAGE   1
0      RUN:SEQ
        40:6
0   0.750   2132.3   1468.8   577.7   3.975    85.0   0.001748    0.069    0.    937
   -1.449  -1.151  -1.019  -0.896  -0.830  -0.807  -0.798  -0.841  -0.869  -1.352  -1.216  -1.045  -0.890  -0.877  -0.800  -0.835
   -0.870  -0.659  -1.400  -1.524  -1.508  -1.557  -1.560  -1.565  -1.537   1.069   0.448   0.525   1.078  -0.976   0.588   0.774
-
0      RUN:SEQ
        40:7
0   0.751   2126.4   1471.5   580.4   3.904    94.3   0.001722    0.066    0.    942
   -1.445  -1.180  -1.021  -0.899  -0.838  -0.820  -0.811  -0.852  -0.873  -1.358  -1.218  -1.043  -0.895  -0.894  -0.818   0.249
   -0.801  -0.656  -1.610  -1.533  -1.918  -1.565  -1.574  -1.572  -1.541   1.033   0.423   0.517   1.063  -0.978   0.515   0.789
-
0      RUN:SEQ
        40:1
0   0.750   2141.2   1473.7   581.0   3.866    99.1   0.001710    0.069    0.    947
   -1.455  -1.186  -1.029  -0.906  -0.845  -0.828  -0.820   0.464  -0.889  -1.572  -1.232  -1.053  -0.899  -0.900  -0.829  -0.863
   -0.898  -0.911  -1.647  -1.545  -1.536  -1.576  -1.597  -1.576  -1.552   1.002   0.400   0.511   1.051  -0.987   0.449   0.805
-
0      RUN:SEQ
        40:5
0   0.751   2140.1   1471.7   581.6   3.831   103.1   0.001696    0.073    0.    951
   -1.451  -1.183  -1.021  -0.902  -0.840  -0.832  -0.820  -0.863  -0.887  -1.575  -1.234  -1.054  -0.901  -0.898  -0.826  -0.865
   -0.900  -0.909  -1.619  -1.545  -1.535  -1.579  -1.578  -1.589  -1.548   0.971   0.377   0.506   1.040  -0.990   0.397   0.822
1TST-560 PH-1 TA-22  41:1.01        ID-PRESSOUT3          10 JAN 83017:43      PAGE   2
0      RUN:SEQ
        41:1.01
0   0.742   2135.5   1412.2   619.9   4.123    82.6   0.001708    0.097    0.   1116
   -0.972  -0.770  -0.641  -0.531  -0.504  -0.482  -0.456  -0.446  -0.449  -0.988  -0.807  -0.697  -0.560  -0.521  -0.462  -0.458
   -0.444  -0.438  -1.075  -0.472  -0.920  -0.937  -0.959  -0.987  -1.001   0.834   0.321   0.493   0.958  -0.378  -0.428   0.850
-
0      RUN:SEQ
        41:2
0   0.752   2454.2   1686.9   667.6   4.291   113.8   0.001908    0.070    0.   1000.
   -1.468  -1.213  -1.048  -0.914  -0.853  -0.844  -0.851  -0.909  -0.934  -1.585  -1.248  -1.073  -0.927  -0.926  -0.847  -0.883
   -0.924  -0.943  -1.649  -1.573  -1.528  -1.589  -1.596  -1.603  -1.578   0.475  -0.028   0.112   0.547  -1.011  -1.018   0.420
-
0      RUN:SEQ
        41:3
0   0.752   2455.5   1688.2   667.5   4.278   115.2   0.001905    0.067    0.   1004
   -1.469  -1.212  -1.046  -0.916  -0.855  -0.844  -0.852  -0.905  -0.929  -1.589  -1.244  -1.077  -0.926  -0.922  -0.845  -0.885
   -0.929  -0.938  -1.653  -1.574  -1.540  -1.597  -1.604  -1.605  -1.576   0.445  -0.051   0.102   0.553  -1.013  -1.026   0.426
```

```
0      RUN:SEC
        43:1
0   0.[illegible]  2124.?  1390.1  627.1  4.091  86.6  0.001674  0.117  0.  1117
   -0.894  -0.766  -0.629  -0.546  -0.529  -0.512  -0.494  -0.487  -0.497  -1.024  -0.831  -0.702  -0.576  -0.552  -0.493  -0.491
   -0.484  -0.487  -1.126  -1.015  -0.971  -0.921  -1.018  -1.041  -1.053   0.831   0.333   0.513   0.968  -0.436  -0.486   0.878
1TST-560 PH-1 TA-22  4312              10-PRESSOUT3              10 JAN 83 17:43          PAGE   3
0      RUN:SEC
        43:2
0   0.820  2133.4  1371.9  645.5  4.067  95.3  0.001634  0.128  0  1120
   -0.922  -0.805  -0.635  -0.577  -0.566  -0.554  -0.542  -0.548  -0.553  -1.049  -0.847  -0.704  -0.589  -0.604  -0.533  -0.547
   -0.547  [illegible]  -1.148  -1.049  -1.016  -1.035  -1.063  -1.083  -1.085   0.817   0.340   0.526   0.964  -0.490  -0.527   0.892
0      RUN:SEC
        43:3
0   0.776  2136.9  1366.2  651.9  3.989  105.8  0.001600  0.132  0.  1126
   -0.931  -0.611  -0.653  -0.595  -0.579  -0.566  -0.550  -0.579  -0.590  -1.062  -0.855  -0.590  -0.608  -0.626  -0.554  -0.571
   -0.882   0.284  -1.145  -1.073  -1.037  -1.063  -1.078  -1.105  -1.105   0.802   0.336   0.532   0.962  -0.549  -0.571   0.903
0      RUN:SEC
        43:4
0   0.819  2123.0  1366.1  641.8  3.953  105.3  0.001598  0.134  0  1128
   -0.540  -0.616  -0.654  -0.601  -0.584  -0.572  -0.561  -0.590  -0.603  -1.081  -0.869  -0.716  -0.607  -0.634  -0.558  -0.579
   -0.590  -0.251  -1.200  -1.088  -1.656  -1.081  -1.102  -1.120  -1.109   0.783   0.317   0.529   0.959  -0.558  -0.581   0.916
0      RUN:SEC
        43:5
0   0.825  2466.4  1577.9  751.7  4.560  109.9  0.001834  0.136  0.  1131
   -0.943  -0.625  -0.468  -0.596  -0.581  -0.570  -0.566  -0.597  -0.615  -1.074  -0.865  -0.714  -0.619  -0.640  -0.563  -0.575
   -0.545  -0.552  -1.142  -1.081  -1.042  -1.061  -1.069  -1.102  -1.115   0.377  -0.015   0.174   0.539  -0.556  -0.596   0.514
1TST-560 PH-1 TA-22  5211              10-PRESSOUT3              10 JAN 83 17:43          PAGE   4
0      RUN:SEC
        52:1
0   0.153  2111.2  1443.3  579.8  3.925  88.7  0.001710  0.044  0  1335
   -0.248  -1.554  -1.272  -1.122  -0.541  -0.840  -0.784  -0.794  -0.804  -0.317  -1.580  -1.370  -1.083  -0.957  -0.846  -0.825
   -0.821  -0.820   0.498   0.479   0.425   0.467   0.483   0.429   0.472   0.712   0.288   0.452   0.877  -0.898  -0.902   0.811
0      RUN:SEC
        52:2
0   0.757  2114.0  1446.1  580.4  3.622  100.7  0.001676  0.043  0  1340
   -0.246  -1.556  -1.284  -1.129  -0.556  -0.855  -0.793  -0.806  -0.824  -0.328  -1.591  -1.367  -1.091  -0.966  -0.857  -0.841
   -0.842  -0.849   0.434   0.476   0.442   0.457   0.482   0.424   0.476   0.718   0.301   0.461   0.882  -0.912  -0.927   0.813
0      RUN:SEC
        52:3
```

```
 0   0.757   2453.2   1704.7   684.5   4.409   110.5   0.001942   0.035      0.  1344
    -0.216  -1.548  -1.283  -1.117  -0.952  -0.854  -0.796  -0.810  -0.826  -0.262  -1.571  -1.373  -1.095  -0.975  -0.862  -0.835
    -0.838  -0.850   0.468   0.477   0.427   0.439   0.462   0.428   0.458   0.242  -0.098   0.030   0.377  -0.906  -0.947   0.315

 0      RUN:SEQ
          54:2

 0   0.313   2146.1   2005.4   137.4   2.094   71.1   0.002245   0.066      0.  1449
    -0.510  -0.318  -0.193  -0.125  -0.071  -0.038  -0.027  -0.027  -0.026  -0.553  -0.363  -0.203  -0.097  -0.108  -0.029  -0.014
    -0.007  -0.004  -0.620  -0.609  -0.521  -0.470  -0.452  -0.542  -0.564  -0.997  -2.567  -2.034  -0.369  -0.028  -0.031  -0.613

1TST-560 PH-1 TA-22  54:3          ID-PRESSOUT3          10 JAN 83 17:43      PAGE   5

 0      RUN:SEQ
          54:3

 0   0.314   2144.8   2002.9   138.4   2.102   70.9   0.002243   0.077      0.  1450
    -0.480  -0.251  -0.166  -0.095  -0.042  -0.010  -0.013  -0.014  -0.012  -0.539  -0.334  -0.183  -0.099  -0.102  -0.032  -0.018
    -0.011  -0.010  -0.615  -0.603  -0.521  -0.473  -0.467  -0.544  -0.548  -0.969  -2.494  -1.990  -0.356  -0.023  -0.013  -0.601

 0      RUN:SEQ
          55:1

 0   0.405   2144.4   1911.4   223.5   2.656   70.7   0.002170   0.060      0.  1455
    -0.545  -0.367  -0.231  -0.164  -0.104  -0.062  -0.050  -0.048  -0.044  -0.595  -0.421  -0.259  -0.142  -0.138  -0.060  -0.042
    -0.034  -0.031  -0.650  -0.639  -0.570  -0.529  -0.516  -0.579  -0.581  -0.223  -1.146  -0.839   0.159  -0.054  -0.058   0.002

 0      RUN:SEQ
          55:2

 0   0.410   2145.7   1911.5   224.0   2.664   70.5   0.002172   0.071      0.  1435
    -0.525  -0.344  -0.216  -0.150  -0.095  -0.054  -0.036  -0.033  -0.030  -0.571  -0.393  -0.237  -0.133  -0.131  -0.054  -0.037
    -0.029  -0.026  -0.673  -0.662  -0.581  -0.544  -0.531  -0.610  -0.616  -0.233  -1.132  -0.834   0.148  -0.056  -0.067  -0.004

 0      RUN:SEQ
          55:3

 0   0.410   2145.7   1910.8   225.2   2.668   70.5   0.002171   0.071      0.  1456
    -0.518  -0.344  -0.214  -0.148  -0.092  -0.052  -0.032  -0.030  -0.027  -0.569  -0.385  -0.233  -0.139  -0.139  -0.059  -0.040
    -0.022  -0.020  -0.673  -0.663  -0.591  -0.539  -0.533  -0.608  -0.607  -0.239  -1.118  -0.829   0.142  -0.056  -0.059  -0.009

1TST-560 PH-1 TA-22  56:1          ID-PRESSOUT3          10 JAN 83 17:43      PAGE   6

 0      RUN:SEQ
          56:1

 0   0.508   2144.2   1799.9   324.8   3.168   71.9   0.002075   0.065      0.  1501
    -0.566  -0.401  -0.257  -0.183  -0.130  -0.086  -0.063  -0.057  -0.051  -0.615  -0.437  -0.292  -0.181  -0.177  -0.037  -0.067
    -0.056  -0.052  -0.693  -0.687  -0.625  -0.581  -0.571  -0.646  -0.646   0.143  -0.452  -0.252   0.413  -0.077  -0.084   0.311

 0      RUN:SEQ
          56:2

 0   0.508   2147.1   1800.2   325.3   3.171   71.9   0.002075   0.059      0.  1501
    -0.568  -0.404  -0.259  -0.198  -0.134  -0.087  -0.063  -0.056  -0.050  -0.612  -0.440  -0.293  -0.179  -0.170  -0.083  -0.065
    -0.014  -0.051  -0.699  -0.695  -0.621  -0.592  -0.575  -0.649  -0.642   0.125  -0.457  -0.257   0.398  -0.080  -0.088   0.304
```

```
0      RUN:SEG
        56:2
0  0.508  2146.7  1600.1  325.1  3.149  71.9  0.002075  0.063  0  1502
  -0.468 -0.407 -0.261 -0.175 -0.131 -0.086 -0.066 -0.059 -0.052 -0.619 -0.437 -0.285 -0.178 -0.168 -0.082 -0.062
  -0.052 -0.648 -0.698 -0.695 -0.917 -0.279 -0.565 -0.640 -0.642  0.110 -0.461 -0.262  0.389 -0.081 -0.089  0.299

0      RUN:SEG
        57:1
0  0.605  2149.7  1678.3  430.1  3.586  75.1  0.001963  0.058  0  1507
  -0.446 -0.505 -0.340 -0.273 -0.215 -0.158 -0.113 -0.099 -0.087 -0.675 -0.520 -0.378 -0.244 -0.225 -0.129 -0.105
  -0.090 -0.081 -0.732 -0.731 -0.975 -0.650 -0.633 -0.721 -0.700  0.335 -0.087  0.067  0.552 -0.115 -0.125  0.490
ITSI-56C PH-1 TN-27  57.2          1D-PRESSOUT3          10 JAN 83@17:43          PAGE   7
0      RUN:SEG
        57:2
0  0.605  2145.2  1678.4  430.0  3.594  75.2  0.001962  0.059  0  1508
  -0.633 -0.489 -0.327 -0.262 -0.202 -0.147 -0.122 -0.108 -0.097 -0.693 -0.519 -0.375 -0.240 -0.223 -0.126 -0.104
  -0.097 -0.833 -0.725 -0.720 -0.668 -0.635 -0.620 -0.709 -0.715  0.315 -0.099  0.059  0.539 -0.115 -0.126  0.485

0      RUN:SEG
        57:3
0  0.604  2150.0  1679.6  429.6  3.581  75.5  0.001963  0.056  0.  1508
  -0.634 -0.492 -0.330 -0.268 -0.210 -0.153 -0.116 -0.102 -0.091 -0.686 -0.513 -0.375 -0.247 -0.228 -0.132 -0.110
  -0.053 -0.087 -0.740 -0.739 -0.690 -0.659 -0.644 -0.730 -0.709  0.292 -0.114  0.049  0.524 -0.120 -0.128  0.478

0      RUN:SEG
        58:1
0  0.705  2147.4  1541.8  535.8  3.932  77.6  0.001838  0.057  0  1513
  -0.767 -0.640 -0.472 -0.393 -0.347 -0.284 -0.231 -0.203 -0.183 -0.826 -0.659 -0.532 -0.394 -0.365 -0.253 -0.224
  -0.159 -0.183 -0.854 -0.851 -0.814 -0.790 -0.769 -0.852 -0.630  0.462  0.142  0.280  0.656 -0.199 -0.200  0.627

0      RUN:SEG
        58:2
0  0.705  2148.9  1541.8  536.6  3.934  77.9  0.001838  0.059  0  1514
  -0.766 -0.659 -0.469 -0.390 -0.344 -0.282 -0.233 -0.204 -0.185 -0.822 -0.661 -0.533 -0.386 -0.359 -0.246 -0.219
  -0.192 -0.177 -0.869 -0.871 -0.835 -0.820 -0.796 -0.870 -0.824  0.436  0.123  0.269  0.640 -0.200 -0.202  0.621
ITSI-560 PH-1 TN-22  58:3          1D-PRESSOUT3          10 JAN 83@17:43          PAGE   8
0      RUN:SEG
        58:3
0  0.705  2147.7  1541.2  536.4  3.928  78.3  0.001835  0.059  0  1515
  -0.753 -0.640 -0.455 -0.381 -0.335 -0.274 -0.223 -0.194 -0.175 -0.810 -0.649 -0.515 -0.388 -0.356 -0.242 -0.213
  -0.187 -0.172 -0.862 -0.861 -0.827 -0.807 -0.779 -0.879 -0.825  0.414  0.106  0.260  0.627 -0.196 -0.203  0.618

0      RUN:SEG
        59:1
```

```
0   0.774   2143.7   1446.5   606.0   3.969   96.2   0.001698   0.068   0.  1521
   -1.140 -1.065 -0.899 -0.813 -0.757 -0.758 -0.756 -0.794 -0.840 -1.344 -1.036 -0.919 -0.793 -0.875 -0.739 -0.797
   -0.815 -0.854 -1.454 -1.476 -1.406 -1.445 -1.435 -1.488 -1.456  0.474  0.209  0.370  0.637 -0.895 -0.944  0.697
-
0      RUN:SFC
        5512
0   0.774   2148.8   1446.6   604.0   3.961   97.2   0.001695   0.067   0.  1522
   -1.129 -1.064 -0.901 -0.608 -0.760 -0.764 -0.759 -0.790 -0.832 -1.343 -1.041 -0.921 -0.795 -9.877 -0.749 -0.814
   -0.833 -0.864 -1.492 -1.474 -1.404 -1.447 -1.439 -1.486 -1.446  0.440  0.180  0.354  0.667 -0.896 -0.943  0.693
-
0      RUN:SFC
        6111
0   0.708   2025.4   2022.7   709.2   5.033   90.4   0.002358   0.085   0.  1525
   -0.777 -0.683 -0.475 -0.290 -0.346 -0.285 -0.242 -0.211 -0.190 -0.839 -0.674 -0.545 -0.403 -0.375 -0.258 -0.221
   -0.193 -0.174 -0.846 -0.872 -0.839 -0.807 -0.782 -0.867 -0.850 -0.437 -0.655 -0.503 -0.238 -0.207 -0.159 -0.201
1TST-560 PH-1 TN-22  6111          10-PRESSOUT3          10 JAN 83 17:43          PAGE   9
0      RUN:SEQ
        6121
0   0.701   3183.7   2293.6   768.4   5.622   91.6   0.002663   0.031   0   1528
   -0.820 -0.712 -0.511 -0.421 -0.376 -0.316 -0.266 -0.235 -0.213 -0.867 -0.705 -0.576 -0.436 -0.401 -0.283 -0.250
   -0.222 -0.204 -0.932 -0.940 -0.898 -0.865 -0.833 -0.928 -0.891 -0.736 -0.928 -0.791 -0.556 -0.226 -0.248 -0.521
-
0      RUN:SFC
        6231
0   0.704   3538.2   2440.9   882.3   6.727   94.3   0.002938   0.048   0.  1532
   -0.821 -0.725 -0.522 -0.429 -0.386 -0.325 -0.264 -0.237 -0.215 -0.862 -0.694 -0.564 -0.433 -0.406 -0.250 -0.251
   -0.222 -0.204 -0.931 -0.942 -0.898 -0.862 -0.825 -0.917 -0.878 -0.931 -1.098 -0.980 -0.770 -0.228 -0.241 -0.740
-
0      RUN:SFC
        6431
0   0.606   2123.2   1656.7   425.9   3.477   60.3   0.001993   0.055   0.   934
   -0.711 -0.593 -0.590 -0.489 -0.366 -0.286 -0.219 -0.178 -0.153 -0.771 -0.621 -0.586 -0.503 -0.394 -0.290 -0.231
   -0.184 -0.161 -0.810 -0.732 -0.679 -0.665 -0.685 -0.724 -0.769  0.617  0.449  0.539  0.741 -0.173 -0.160  0.693
-
0      RUN:SFC
        6441
0   0.605   2130.0   1669.9   427.6   3.675   62.7   0.001999   0.070   0.   938
   -0.729 -0.666 -0.503 -0.501 -0.386 -0.296 -0.219 -0.180 -0.17  -0.783 -0.627 -0.591 -0.508 -0.398 -0.291 -0.221
   -0.177 -0.153 -0.822 -0.747 -0.691 -0.689 -0.704 -0.741 -0.768  0.564  0.397  0.477  0.700 -0.173 -0.162  0.662
1TST-560 PH-1 TN-22  6531          10-PRESSOUT3          10 JAN 83 17:43          PAGE  10
0      RUN:SFC
        6521
0   0.607   2856.0   2227.6   573.6   4.883   65.7   0.002653   0.061   0.   945
   -0.761 -0.632 -0.625 -0.532 -0.408 -0.316 -0.242 -0.195 -0.167 -0.801 -0.651 -0.617 -0.542 -0.427 -0.324 -0.255
   -1.205 -0.171 -0.831 -0.748 -0.695 -0.682 -0.717 -0.757 -0.777 -0.536 -0.656 -0.611 -0.449 -0.190 -0.179 -0.461
```

```
 0      RUN:SEC
          6681
 0   0.611    3575.9    2778.3    727.1    6.070     70.9    0.003280     0.046        0.   949
    -0.794   -0.668    -0.561    -0.457   -0.428    -0.348   -0.278   -0.234   -0.208   -0.836   -0.681   -0.655   -0.378   -0.469   -0.353   -0.275
    -0.222   -0.197    -0.884    -0.805   -0.748    -0.740   -0.747   -0.792   -0.817   -1.163   -1.253   -1.224   -1.096   -0.211   -0.204   -1.111
 0      RUN:SEC
          6682
 0   0.611    3561.5    2768.4    723.0    6.021     72.5    0.003259     0.054        0.   932
    -0.769   -0.642    -0.539    -0.565   -0.428    -0.340   -0.273   -0.226   -0.197   -0.837   -0.680   -0.651   -0.565   -0.455   -0.343   -0.274
    -0.235   -0.199    -0.892    -0.761   -0.719    -0.727   -0.742   -0.785   -0.790   -1.119   -1.208   -1.212   -1.087   -0.208   -0.191   -1.075
 0      RUN:SEC
          6781
 0   0.609    4261.7    3349.9    851.5    7.115     75.5    0.003912     0.057        0.   954
    -0.792   -0.661    -0.550    -0.547   -0.426    -0.333   -0.274   -0.223   -0.199   -0.825   -0.666   -0.647   -0.565   -0.452   -0.334   -0.262
    -0.198   -0.166    -0.874    -0.796   -0.7..    -0.718   -0.729   -0.778   -0.810   -1.608   -1.680   -1.490   -1.584   -0.206   -0.201   -1.585
1757-960 PH-1 RN-22  6681                 10-PRESSOUT3              10 JAN 83 17:43          PAGE  11
 0      RUN:SEC
          6781
 0   0.604    4268.6    3352.7    855.0    7.104     77.3    0.003903     0.048        0.   957
    -0.797   -0.666    -0.661    -0.553   -0.423    -0.338   -0.276   -0.230   -0.200   -0.827   -0.676   -0.647   -0.575   -0.473   -0.361   -0.282
    -0.226   -0.192    -0.874    -0.796   -0.744    -0.745   -0.742   -0.791   -0.825   -1.582   -1.654   -1.673   -1.567   -0.213   -0.211   -1.577
 0      RUN:SEC
          6981
 0   0.604    3670.1    3066.3    994.9    8.149     82.7    0.004481     0.062        0.  1002
    -0.796   -0.620    -0.658    -0.560   -0.437    -0.355   -0.277   -0.226   -0.202   -0.846   -0.682   -0.671   -0.586   -0.469   -0.284   -0.264
    -0.242   -0.210    -0.811                       -0.719   -0.728   -0.756   -0.799   -0.814                       -1.959   -1.863   -0.226   -0.217
 0      RUN:SEC
          6982
 0   0.657    2123.1    1590.8    480.2    3.794     69.9    0.001901     0.065        0.  1047
    -0.784   -0.635    -0.652    -0.572   -0.457    -0.368   -0.289   -0.240   -0.210   -0.859   -0.709   -0.662   -0.568   -0.462   -0.352   -0.298
    -0.249   -0.209    -0.884    -0.804   -0.753    -0.788   -0.785   -0.811   -0.823    0.794    0.682    0.691    0.874   -0.229   -0.204    0.789
 0      RUN:SEC
          6983
 0   0.635    2026.2    1588.5    482.2    3.793     70.8    0.001896     0.067        0.  1050
    -0.789   -0.636    -0.636    -0.564   -0.448    -0.363   -0.284   -0.239   -0.211   -0.853   -0.714   -0.658   -0.571   -0.462   -0.385   -0.303
    -0.241   -0.211    -0.870    -0.789   -0.740    -0.766   -0.758   -0.793   -0.823    0.764    0.655    0.677    0.857   -0.225   -0.201    0.757
1757-960 PH-1 RN-22  6781                 10-PRESSOUT3              10 JAN 83 17:43          PAGE  12
 0      RUN:SEC
          7081
```

```
 0   0.653   2477.5   2160.7   645.3   5.052    75.4   0.002554    0.056       0   1054
    -0.837  -0.700  -0.703  -0.592  -0.477  -0.390  -0.334  -0.285  -0.252  -0.890  -0.741  -0.698  -0.615  -0.509  -0.396  -0.317
    -0.266  -0.229  -0.911  -0.844  -0.788  -0.796  -0.794  -0.843  -0.860  -0.315  -0.394  -0.374  -0.241  -0.247  -0.240  -0.287
-
 0      RUN:SEQ
          7182
 0   0.654   2467.6   2152.1   643.7   5.020    76.1   0.002541    0.057       0   1096
    -0.842  -0.712  -0.705  -0.595  -0.475  -0.386  -0.323  -0.273  -0.242  -0.880  -0.726  -0.686  -0.623  -0.517  -0.404  -0.323
    -0.269  -0.234  -0.920  -0.847  -0.785  -0.793  -0.788  -0.836  -0.870  -0.311  -0.388  -0.364  -0.232  -0.245  -0.237  -0.274
-
 0      RUN:SEQ
          7281
 0   0.654   3572.0   2680.5   802.0   6.186    81.3   0.003134    0.052       0   1108
    -0.855  -0.732  -0.723  -0.617  -0.468  -0.413  -0.345  -0.298  -0.262  -0.898  -0.739  -0.710  -0.639  -0.523  -0.416  -0.338
    -0.282  -0.251  -0.949  -0.873  -0.812  -0.819  -0.810  -0.863  -0.877  -0.887  -0.946  -0.938  -0.833  -0.260  -0.251  -0.859
-
 0      RUN:SEQ
          7282
 0   0.653   3559.3   2665.0   797.5   6.136    82.6   0.003113    0.055       0   1103
    -0.855  -0.729  -0.719  -0.615  -0.456  -0.409  -0.337  -0.287  -0.253  -0.891  -0.735  -0.702  -0.634  -0.531  -0.417  -0.335
    -0.278  -0.248  -0.932  -0.859  -0.804  -0.808  -0.802  -0.851  -0.878  -0.874  -0.931  -0.924  -0.820  -0.258  -0.256  -0.846
1TS1-560 PH-1 TR-22  7381          ID-PPRESSUUT3          10 JAN 83017:43       PAGE  13
 0      RUN:SEQ
          7381
 0   0.651   4477.5   3366.8            7.653    85.9   0.003902    0.096       0   1108
    -0.889  -0.757  -0.748  -0.643  -0.519  -0.427  -0.353  -0.305  -0.271  -0.934  -0.774  -0.739  -0.673  -0.558  -0.441  -0.359
    -0.302  -0.265  -0.967  -0.896  -0.835  -0.844  -0.840  -0.889  -0.928  -1.381  -1.426  -1.446  -1.363  -0.277  -0.264  -1.387
-
 0      RUN:SEQ
          7382
 0   0.652   4477.1   3365.1            7.619    87.9   0.003885    0.046       0   1111
    -0.892  -0.761  -0.728  -0.623  -0.500  -0.407  -0.342  -0.293  -0.261  -0.907  -0.746  -0.721  -0.656  -0.552  -0.437  -0.350
    -0.292  -0.258  -0.953  -0.876  -0.825  -0.930  -0.821  -0.874  -0.892  -1.332  -1.374  -1.397  -1.317  -0.268  -0.256  -1.326
1TS1-560 PH-1 TR-22  1001          ID-PRESSUUT3          10 JAN 83017:43       PAGE  14
 0      RUN:SEQ
          1001
 0   0.653   2521.1   2193.9   654.8   5.060    80.9   0.002566    0.056       2   1444
    -0.824  -0.697  -0.689  -0.597  -0.470  -0.375  -0.313  -0.265  -0.233  -0.885  -0.711  -0.696  -0.601  -0.490  -0.389  -0.315
    -0.262  -0.228  -0.922  -0.838  -0.786  -0.774  -0.799  -0.851  -0.865  -0.214   0.997  -0.218  -0.219  -0.218  -0.218  -0.227
-
 0      RUN:SEQ
          1002
 0   0.652   2522.5   2197.2   652.9   5.052    81.1   0.002569    0.051       2   1445
    -0.835  -0.701  -0.701  -0.604  -0.480  -0.395  -0.316  -0.266  -0.236  -0.890  -0.722  -0.699  -0.612  -0.497  -0.391  -0.318
    -0.266  -0.233  -0.926  -0.825  -0.794  -0.786  -0.802  -0.852  -0.879  -0.220  -0.197  -0.226  -0.224  -0.224  -0.219  -0.231
```

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1
1TST-560 PT-1 TR-22  78:1          ID-PRESSOUT3          10 JAN 83:17:56      PAGE  0.
QT 78 1 99 TRANSMIT PLOT3 TAPE=MARDE9
1TST-560 PT-1 TR-22  78:1          ID-PRESSOUT3          10 JAN 83:17:56      PAGE  1
 0     RUN:SEQ
       78:1
 0  0.651   2128.5   1601.5   474.5   3.832    64.0   0.001933    0.094    100.   927
   -0.820  -0.699  -0.640  -0.596  -0.472  -0.382  -0.300  -0.256  -0.224  -0.884  -0.711  -0.672  -0.594  -0.485  -0.378  -0.314
   -0.255  -0.226  -0.921  -0.837  -0.770  -0.771  -0.786  -0.830  -0.854  -0.211  -0.187  -0.216  -0.214  -0.211  -0.211  -0.218
   -0.722  -0.642  -0.506  -0.399  -0.321  -0.714  -0.614  -0.506  -0.399  -0.320  -0.730  -0.622  -0.502  -0.400  -0.312
 0     RUN:SEQ
       78:2
 0  0.651   2128.2   1600.3   475.2   3.830    64.4   0.001930    0.057    100.   928
   -0.798  -0.675  -0.667  -0.558  -0.438  -0.357  -0.298  -0.254  -0.222  -0.875  -0.714  -0.677  -0.589  -0.473  -0.367  -0.300
   -0.252  -0.221  -0.899  -0.823  -0.768  -0.760  -0.779  -0.817  -0.852  -0.207  -0.183  -0.211  -0.210  -0.208  -0.200  -0.207
   -0.711  -0.620  -0.502  -0.396  -0.322  -0.718  -0.617  -0.502  -0.403  -0.319  -0.725  -0.616  -0.500  -0.399  -0.316
 0     RUN:SEQ
       79:1
 0  0.653   2457.7   2145.1   640.8   5.101    68.4   0.002569    0.060    100.   930
   -0.844  -0.713  -0.705  -0.592  -0.471  -0.384  -0.318  -0.273  -0.239  -0.885  -0.720  -0.695  -0.602  -0.497  -0.385  -0.309
   -0.257  -0.224  -0.923  -0.836  -0.784  -0.753  -0.780  -0.830  -0.868  -0.211  -0.189  -0.213  -0.210  -0.210  -0.218  -0.222
   -0.740  -0.632  -0.516  -0.403  -0.328  -0.749  -0.647  -0.524  -0.416  -0.328  -0.737  -0.656  -0.537  -0.424  -0.330
 0     RUN:SEQ
       79:2
 0  0.653   2441.1   2134.1   636.3   5.039    71.0   0.002543    0.050    100.   934
   -0.860  -0.729  -0.718  -0.612  -0.489  -0.396  -0.325  -0.277  -0.243  -0.886  -0.726  -0.694  -0.623  -0.510  -0.395  -0.320
   -0.269  -0.234  -0.944  -0.868  -0.807  -0.783  -0.813  -0.855  -0.878  -0.225  -0.201  -0.221  -0.223  -0.224  -0.223  -0.237
   -0.753  -0.653  -0.534  -0.420  -0.341  -0.758  -0.658  -0.533  -0.434  -0.346  -0.769  -0.666  -0.546  -0.428  -0.342
1TST-560 PT-1 TR-22  80:1          ID-PRESSOUT3          10 JAN 83:17:56      PAGE  2
 0     RUN:SEQ
       80:1
 0  0.652   3540.6   2659.9   792.7   6.194    76.5   0.003137    0.043    100.   938
   -0.861  -0.720  -0.721  -0.610  -0.493  -0.407  -0.338  -0.292  -0.260  -0.916  -0.746  -0.717  -0.638  -0.525  -0.416  -0.342
   -0.287  -0.251  -0.957  -0.872  -0.814  -0.794  -0.814  -0.866  -0.907  -0.242  -0.216  -0.244  -0.241  -0.238  -0.231  -0.244
   -0.757  -0.667  -0.539  -0.429  -0.348  -0.770  -0.669  -0.552  -0.445  -0.359  -0.781  -0.680  -0.559  -0.446  -0.353
 0     RUN:SEQ
       80:2
 0  0.651   3548.2   2667.2   790.9   6.199    76.7   0.003146    0.038    100.   943
   -0.867  -0.731  -0.725   170.8  -0.503  -0.416  -0.339  -0.289  -0.259   213.3  -0.741  -0.718  -0.637  -0.523  -0.416   126.9
   -0.282  -0.248  -0.955  -0.870  -0.814   196.2  -0.814  -0.862  -0.899  -0.242  -0.216   112.9  -0.245  -0.243  -0.235  -0.245
   -0.761   170.6  -0.545  -0.429  -0.352  -0.779  -0.686   161.7  -0.455  -0.361  -0.782  -0.686  -0.568   144.7  -0.357
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0     RUN:SEQ
        8131
0   0.651    4453.4    3349.7    993.8    7.668    81.5    0.003913    0.040    100.    945
   -0.885  -0.759  -0.747  -0.642  -0.515  -0.422  -0.347  -0.299  -0.265  -0.932  -0.752  -0.739  -0.650  -0.535  -0.424  -0.350
   -0.258  -0.259  -0.974  -0.888  -0.832  -0.804  -0.831  -0.880  -0.913  -0.248  -0.228  -0.249  -0.246  -0.248  -0.246  -0.254
   -0.792  -0.654  -0.563  -0.451  -0.367  -0.786  -0.687  -0.570  -0.458  -0.367  -0.797  -0.700  -0.576  -0.464  -0.363
0     RUN:SEQ
        8132
0   0.649    4453.4    3339.8    990.6    7.618    84.8    0.003894    0.038    100.    950.
   -0.874  -0.746  -0.736  -0.631  -0.505  -0.417  -0.350  -0.299  -0.265  -0.909  -0.742  -0.723  -0.655  -0.544  -0.435  -0.357
   -0.301  -0.264  -0.945  -0.875  -0.821  -0.820  -0.824  -0.867  -0.910  -0.244  -0.222  -0.242  -0.244  -0.245  -0.247  -0.254
   -0.775  -0.680  -0.560  -0.442  -0.365  -0.791  -0.685  -0.574  -0.465  -0.371  -0.791  -0.685  -0.562  -0.455  -0.368
1TST-560 PH-1 TN-22  8431          ID-PRESSOUT3          10 JAN 83@17:56      PAGE   3
0     RUN:SEQ
        8231
0   0.654    3532.9    2652.9    792.2    6.090    83.0    0.003091    0.042    100.    953
   -0.841  -0.709  -0.704  -0.620  -0.496  -0.410  -0.335  -0.286  -0.254  -0.916  -0.750  -0.721  -0.618  -0.506  -0.402  -0.343
   -0.290  -0.252  -0.912           -0.780  -0.819  -0.819  -0.859  -0.879  -0.229  -0.206  -0.240  -0.242  -0.236  -0.227  -0.234
   -0.743  -0.673  -0.550  -0.441  -0.344  -0.746  -0.654  -0.560  -0.451  -0.356  -0.761  -0.653  -0.538  -0.440  -0.355
0     RUN:SEQ
        8232
0   0.652    3526.2    2652.6    789.1    6.076    83.0    0.003090    0.042    100.    953
   -0.855  -0.721  -0.715  -0.635  -0.518  -0.424  -0.335  -0.284  -0.252  -0.918  -0.751  -0.729  -0.629  -0.521  -0.413  -0.352
   -0.295  -0.262  -0.928           -0.801  -0.837  -0.830  -0.881  -0.894  -0.237  -0.218  -0.252  -0.255  -0.252  -0.229  -0.241
   -0.738  -0.664  -0.565  -0.446  -0.345  -0.754  -0.669  -0.567  -0.455  -0.364  -0.758  -0.655  -0.549  -0.457  -0.361
0     RUN:SEQ
        8332
0   0.825    2123.9    1358.9    647.2    4.212    79.7    0.001668    0.117    100.   1108
   -1.131  -1.028  -0.915  -0.864  -0.823  -0.876  -0.880  -0.949  -0.975  -1.293  -1.037  -0.936  -0.718  -0.977  -0.729  -0.801
   -0.857  -0.854  -1.596  -1.529  -1.458  -1.493  -1.511  -1.549  -1.552  -0.857  -0.829  -0.843  -0.829  -0.832  -0.810  -0.847
   -0.686  -0.644  -0.642  -0.675  -0.698  -0.685  -0.615  -0.628  -0.665  -0.707  -0.701  -0.612  -0.614  -0.669  -0.718
0     RUN:SEQ
        8333
0   0.824    2122.1    1358.3    646.3    4.189    81.6    0.001661    0.043    100.   1109
   -0.768  -0.685  -0.601  -0.558  -0.547  -0.565  -0.567  -0.626  -0.647  -0.891  -0.689  -0.614  -0.540  -0.669  -0.559  -0.626
   -0.469  -0.648  -1.477  -1.228  -1.169  -1.207  -1.211  -1.241  -1.258  -0.721  -0.697  -0.708  -0.691  -0.694  -0.684  -0.709
   -0.575  -0.559  -0.485  -0.581  -0.594  -0.586  -0.527  -0.543  -0.570  -0.604  -0.583  -0.526  -0.529  -0.579  -0.614
1TST-560 PH-1 TN-22  8431          ID-PRESSOUT3          10 JAN 83@17:56      PAGE   4
0     RUN:SEQ
        8431
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 0   0.750   2126.0   1464.5   576.0   4.027    78.4   0.001764    0.033    100:  1113
    -0.522  -0.374  -0.261  -0.212  -0.186  -0.159  -0.129  -0.116  -0.099  -0.607  -0.389  -0.283  -0.202  -0.232  -0.131  -0.126
    -0.123  -0.102  -0.804  -0.742  -0.677  -0.682  -0.670  -0.720  -0.763  -0.114  -0.103  -0.126  -0.120  -0.109  -0.122  -0.124
    -0.351  -0.238  -0.168  -0.139  -0.123  -0.381  -0.245  -0.169  -0.132  -0.120  -0.368  -0.218  -0.145  -0.118  -0.113
-
 0    RUN:SEQ
        8432
 0   0.751   2123.9   1461.3   576.7   4.038    77.5   0.001764    0.028    100:  1117
    -0.524  -0.369  -0.266  -0.216  -0.192  -0.163  -0.139  -0.129  -0.112  -0.615  -0.402  -0.297  -0.210  -0.241  -0.138  -0.133
    -0.130  -0.108  -0.805  -0.744  -0.669  -0.673  -0.661  -0.722  -0.733  -0.100  -0.086  -0.112  -0.103  -0.095  -0.115  -0.117
    -0.351  -0.228  -0.167  -0.128  -0.121  -0.382  -0.238  -0.161  -0.127  -0.112  -0.386  -0.240  -0.161  -0.132  -0.122
-
 0    RUN:SEQ
        8531
 0   0.752   2636.2   1543.8   770.9   5.230    81.1   0.002332    0.023    100:  1120
    -0.551  -0.405  -0.283  -0.226  -0.200  -0.175  -0.151  -0.143  -0.124  -0.643  -0.427  -0.319  -0.224  -0.255  -0.151  -0.138
    -0.134  -0.113  -0.815  -0.763  -0.709  -0.691  -0.673  -0.742  -0.769  -0.130  -0.119  -0.132  -0.131  -0.120  -0.134  -0.139
    -0.371  -0.247  -0.181  -0.153  -0.138  -0.427  -0.277  -0.184  -0.146  -0.131  -0.410  -0.266  -0.181  -0.142  -0.129
-
 0    RUN:SEQ
        8532
 0   0.752   2636.0   1949.2   771.4   5.227    82.6   0.002331    0.026    100:  1124
    -0.537  -0.393  -0.277  -0.221  -0.196  -0.170  -0.152  -0.143  -0.123  -0.631  -0.419  -0.316  -0.225  -0.258  -0.152  -0.138
    -0.134  -0.112  -0.829  -0.771  -0.707  -0.697  -0.690  -0.751  -0.768  -0.120  -0.107  -0.123  -0.117  -0.112  -0.130  -0.134
    -0.380  -0.252  -0.176  -0.144  -0.134  -0.413  -0.269  -0.178  -0.138  -0.126  -0.421  -0.276  -0.183  -0.139  -0.125
1TST-460 Ph-1 TA-22  8E:1          10-PRESSOUT3          10 JAN 83/17:56       PAGE   5
 0    RUN:SEQ
        8631
 0   0.751   3710.9   2552.5           6.881    97.9   0.003023    0.018    100:  1126
    -0.561  -0.418  -0.297  -0.246  -0.222  -0.194  -0.166  -0.156  -0.137  -0.666  -0.449  -0.344  -0.237  -0.264  -0.160  -0.147
    -0.141  -0.119  -0.842  -0.787  -0.735  -0.722  -0.706  -0.775  -0.775  -0.136  -0.123  -0.144  -0.136  -0.130  -0.140  -0.145
    -0.407  -0.270  -0.191  -0.158  -0.156  -0.438  -0.293  -0.202  -0.159  -0.147  -0.459  -0.297  -0.204  -0.161  -0.145
-
 0    RUN:SEQ
        8632
 0   0.750   3712.9   2557.5           6.878    97.8   0.003028    0.015    100:  1131
    -0.567  -0.423  -0.300  -0.248  -0.221  -0.194  -0.167  -0.156  -0.138  -0.675  -0.454  -0.346  -0.251  -0.276  -0.171  -0.158
    -0.153  -0.130  -0.854  -0.797  -0.732  -0.728  -0.704  -0.772  -0.786  -0.135  -0.124  -0.143  -0.135  -0.129  -0.142  -0.147
    -0.415  -0.279  -0.196  -0.154  -0.155  -0.452  -0.306  -0.210  -0.166  -0.148  -0.451  -0.302  -0.208  -0.165  -0.150
-
 0    RUN:SEQ
        8731
 0   0.859   2116.3   1306.7   675.4   4.305    76.9   0.001629    0.014    100:  1240
    -0.215  -0.169  -0.125  -0.100  -0.089  -0.078  -0.056  -0.061  -0.042  -0.269  -0.139  -0.114  -0.093  -0.169  -0.071  -0.074
    -0.079  -0.056  -0.471  -0.412  -0.558  -0.617  -0.627  -0.631  -0.667  -0.049  -0.040  -0.054  -0.049  -0.045  -0.052  -0.062
```

```
   -0.101  -0.081  -0.070  -0.068  -0.068  -0.106  -0.077  -0.072  -0.070  -0.068  -0.115  -0.083  -0.075  -0.078  -0.076

0     RUN:SFO
        87:2
0   0.852    2121.0    1320.0    670.4    4.281     78.5    0.001637     0.013     100    1245
   -0.201  -0.155  -0.119  -0.091  -0.080  -0.069  -0.051  -0.057  -0.040  -0.258  -0.131  -0.107  -0.077  -0.153  -0.097  -0.080
   -0.065  -0.042  -0.659  -0.592  -0.580  -0.595  -0.602  -0.604  -0.668  -0.055  -0.047  -0.060  -0.056  -0.058  -0.058  -0.069
   -0.105  -0.085  -0.076  -0.073  -0.066  -0.103  -0.075  -0.070  -0.067  -0.069  -0.101  -0.070  -0.065  -0.070  -0.069
1TST-360 PY-1 TA-22  8713          10-PRESSOUT3          10 JAN 83017:56       PAGE   6
0     RUN:SEQ
        87:3
0   0.849    2121.0    1323.3    668.2    4.274     78.7    0.001639     0.010     100    1245
   -0.222  -0.172  -0.129  -0.105  -0.094  -0.083  -0.054  -0.061  -0.043  -0.260  -0.135  -0.111  -0.079  -0.151  -0.099  -0.083
   -0.068  -0.044  -0.682  -0.613  -0.597  -0.614  -0.622  -0.633  -0.677  -0.058  -0.049  -0.064  -0.059  -0.053  -0.066  -0.077
   -0.113  -0.093  -0.083  -0.081  -0.068  -0.106  -0.078  -0.073  -0.070  -0.069  -0.106  -0.073  -0.066  -0.071  -0.068

0     RUN:SEQ
        88:1
0   0.854    2038.3    1637.6    836.6    5.220     87.4    0.001999     0.012     100    1255
   -0.215  -0.170  -0.123  -0.099  -0.089  -0.078  -0.069  -0.076  -0.054  -0.284  -0.152  -0.127  -0.098  -0.166  -0.070  -0.068
   -0.073  -0.049  -0.707  -0.646  -0.631  -0.639  -0.646  -0.659  -0.693  -0.062  -0.054  -0.064  -0.058  -0.053  -0.066  -0.078
   -0.118  -0.092  -0.081  -0.080  -0.074  -0.120  -0.087  -0.076  -0.073  -0.072  -0.117  -0.083  -0.076  -0.078  -0.075

0     RUN:SFO
        88:2
0   0.851    3170.6    1979.3              6.302     85.9    0.002421     0.013     100    1305
   -0.218  -0.172  -0.129  -0.100  -0.085  -0.075  -0.075  -0.082  -0.063  -0.294  -0.157  -0.132  -0.099  -0.182  -0.077  -0.075
   -0.079  -0.054  -0.701  -0.640  -0.626  -0.649  -0.646  -0.659  -0.676  -0.059  -0.050  -0.059  -0.054  -0.051  -0.066  -0.078
   -0.117  -0.091  -0.080  -0.079  -0.077  -0.124  -0.089  -0.077  -0.074  -0.074  -0.117  -0.083  -0.076  -0.075  -0.073

0     RUN:SFO
        89:1
0   0.848    3157.7    1997.7              6.277     89.4    0.002425     0.008     100    1310
   -0.235  -0.187  -0.142  -0.112  -0.101  -0.091  -0.073  -0.080  -0.061  -0.289  -0.155  -0.131  -0.097  -0.178  -0.074  -0.071
   -0.075  -0.051  -0.704  -0.636  -0.629  -0.638  -0.644  -0.656  -0.676  -0.061  -0.054  -0.063  -0.057  -0.054  -0.070  -0.082
   -0.120  -0.093  -0.082  -0.084  -0.080  -0.126  -0.092  -0.080  -0.078  -0.077  -0.128  -0.090  -0.082  -0.078  -0.077
          LINE COUNT =          153
```

```
0     RUN:SEQ
      100:3
0  0.652   2922.3   2154.1   655.3   5.047   82.3   0.002561   0.054      2  1449
  -0.833  -0.707  -0.699  -0.558  -0.470  -0.387  -0.318  -0.274  -0.243  -0.905  -0.726  -0.708  -0.614  -0.503  -0.392  -0.322
  -0.274  -0.241  -0.916  -0.839  -0.782  -0.775  -0.802  -0.846  -0.878  -0.222  -0.196  -0.224  -0.223  -0.223  -0.215  -0.227
0     RUN:SEQ
      100:4
0  0.653   2922.3   2199.8   655.4   5.035   83.3   0.002556   0.048      2  1454
  -0.835  -0.705  -0.705  -0.607  -0.481  -0.393  -0.321  -0.274  -0.239  -0.900  -0.731  -0.703  -0.609  -0.499  -0.398  -0.326
  -0.275  -0.237  -0.934  -0.850  -0.794  -0.782  -0.811  -0.852  -0.870  -0.217  -0.197  -0.225  -0.221  -0.223  -0.221  -0.228
1TST-560 PH-1 TN-22  100:5          ID-PRESSOUT3          10 JAN 83@17:43          PAGE  15
0     RUN:SEQ
      100:5
0  0.654   2921.7   2192.8   655.8   5.023   84.4   0.002549   0.053      2  1459
  -0.829  -0.703  -0.699  -0.600  -0.477  -0.386  -0.320  -0.276  -0.243  -0.893  -0.738  -0.698  -0.618  -0.502  -0.395  -0.324
  -0.270  -0.236  -0.925  -0.849  -0.795  -0.765  -0.808  -0.858  -0.883  -0.222  -0.203  -0.227  -0.228  -0.226  -0.220  -0.228
0     RUN:SEQ
      100:6
0  0.654   2921.6   2191.2   657.0   5.316   85.3   0.002544   0.055      2  1504
  -0.840  -0.713  -0.705  -0.605  -0.484  -0.392  -0.319  -0.273  -0.241  -0.894  -0.727  -0.696  -0.608  -0.494  -0.393  -0.320
  -0.267  -0.232  -0.923  -0.844  -0.789  -0.783  -0.802  -0.844  -0.868  -0.213  -0.193  -0.217  -0.217  -0.216  -0.216  -0.229
0     RUN:SEQ
      100:7
0  0.654   2921.4   2192.3   655.9   5.036   83.3   0.002554   0.054      2  1509
  -0.823  -0.691  -0.689  -0.593  -0.469  -0.382  -0.317  -0.270  -0.237  -0.890  -0.724  -0.693  -0.601  -0.492  -0.387  -0.317
  -0.265  -0.229  -0.905  -0.835  -0.785  -0.769  -0.803  -0.841  -0.860  -0.214  -0.190  -0.216  -0.220  -0.214  -0.210  -0.217
0     RUN:SEQ
      100:8
0  0.652   2921.1   2156.5   654.0   5.014   84.5   0.002550   0.051      2  1515
  -0.831  -0.701  -0.701  -0.596  -0.475  -0.386  -0.306  -0.259  -0.228  -0.880  -0.713  -0.686  -0.608  -0.496  -0.390  -0.317
  -0.263  -0.229  -0.917  -0.839  -0.785  -0.768  -0.802  -0.841  -0.878  -0.219  -0.200  -0.228  -0.226  -0.222  -0.219  -0.230
1TST-560 PH-1 TN-22  100:9          ID-PRESSOUT3          10 JAN 83@17:43          PAGE  16
0     RUN:SEQ
      100:9
0  0.652   2921.4   2195.4   653.6   5.007   83.0   0.002548   0.050      2  1520
  -0.837  -0.707  -0.702  -0.605  -0.481  -0.390  -0.321  -0.275  -0.243  -0.904  -0.731  -0.708  -0.613  -0.497  -0.389  -0.319
  -0.265  -0.234  -0.915  -0.843  -0.788  -0.763  -0.797  -0.847  -0.871  -0.219  -0.200  -0.222  -0.220  -0.220  -0.219  -0.232
0     RUN:SEQ
      100:10
```

100:10

0 0.652 2222.3 2195.9 653.5 4.993 86.4 0.002543 0.048 2 1525
-0.340 -0.708 -0.707 -0.608 -0.486 -0. [illegible] -0.316 -0.269 -0.236 -0.892 -0.721 -0.699 -0.619 -0.508 -0.401 -0.329
-0.278 -0.242 -0.508 -0.839 -0.782 -[illegible] [illegible]6 -0.801 -0.845 -0.856 -0.210 -0.191 -0.214 -0.216 -0.210 -0.222 -0.227

0 RUN:SEC
10231.01

0 0.652 4040.0 3035.6 904.6 7.000 80.6 0.003553 0.042 1 1004
-0.838 -0.745 -0.738 -0.635 -0.506 -0.414 -0.335 -0.291 -0.260 -0.911 -0.741 -0.717 -0.644 -0.530 -0.421 -0.342
-0.236 -0.250 -0.969 -0.887 -0.830 -0.797 -0.826 -0.881 -0.911 -0.244 -0.220 -0.242 -0.245 -0.232 -0.236 -0.245

0 RUN:SEC
10232.01

0 0.649 4048.7 3030.1 895.7 6.965 82.2 0.003557 0.046 1 1006
-0.859 -0.709 -0.720 -0.621 -0.498 -0.408 -0.344 -0.292 -0.260 -0.920 -0.751 -0.722 -0.644 -0.529 -0.416 -0.345
-0.298 -0.252 -0.932 -0.867 -0.915 -0.824 -0.830 -0.871 -0.885 -0.232 -0.209 -0.238 -0.237 -0.238 -0.231 -0.244

1TST-560 PH-1 TA-22 10233 10-PRESSOUT3 10 JAN 83017:43 PAGE 17

0 RUN:SEC
10233

0 0.649 4053.0 3034.1 900.0 6.961 82.7 0.003557 0.033 1 1007
-0.877 -0.724 -0.734 -0.633 -0.508 -0.414 -0.346 -0.296 -0.264 -0.922 -0.755 -0.739 -0.654 -0.541 -0.429 -0.356
-0.300 -0.264 -0.954 -0.885 -0.825 -0.808 -0.829 -0.878 -0.904 -0.237 -0.221 -0.246 -0.244 -0.244 -0.233 -0.245

0 RUN:SEC
10234

0 0.654 4028.5 3023.0 904.6 6.933 84.0 0.003517 0.044 1 1008
-0.869 -0.718 -0.732 -0.633 -0.508 -0.421 -0.350 -0.301 -0.266 -0.928 -0.761 -0.734 -0.653 -0.542 -0.430 -0.353
-0.297 -0.259 -0.953 -0.875 -0.821 -0.801 -0.829 -0.884 -0.889 -0.241 -0.217 -0.248 -0.244 -0.249 -0.238 -0.253

0 RUN:SEC
10235

0 0.654 4045.6 3039.1 909.1 6.523 86.7 0.003518 0.039 1 1011
-0.869 -0.723 -0.734 -0.638 -0.513 -0.422 -0.356 -0.305 -0.271 -0.934 -0.766 -0.741 -0.649 -0.534 -0.422 -0.348
-0.295 -0.257 -0.951 -0.875 -0.823 -0.808 -0.837 -0.860 -0.889 -0.241 -0.225 -0.246 -0.247 -0.264 -0.249 -0.260

0 RUN:SEC
10236

0 0.655 4043.9 3031.2 910.6 6.918 87.0 0.003508 0.018 1 1012
-0.764 -0.639 -0.648 -0.548 -0.461 -0.383 -0.319 -0.276 -0.246 -0.815 -0.673 -0.651 -0.573 -0.475 -0.383 -0.321
-0.274 -0.242 -0.834 -0.762 -0.717 -0.711 -0.732 -0.770 -0.784 -0.222 -0.206 -0.225 -0.223 -0.225 -0.226 -0.235

1TST-560 PH-1 TA-22 10237 10-PRESSOUT3 10 JAN 83017:43 PAGE 18

0 RUN:SEC
10237

0 0.659 4036.1 3030.8 904.6 6.879 87.8 0.003501 0.016 1 1013
-0.771 -0.643 -0.651 -0.568 -0.460 -0.379 -0.317 -0.274 -0.244 -0.805 -0.661 -0.642 -0.572 -0.479 -0.386 -0.326
-0.278 -0.254 -0.843 -0.765 -0.725 -0.720 -0.739 -0.782 -0.793 -0.228 -0.213 -0.232 -0.233 -0.231 -0.225 -0.237

```
0     RUN:SEQ
      102:9
0   0.652   4045.7   3038.0   904.8   6.884    88.5   0.003505    0.044      1   1014
   -0.870  -0.722  -0.734  -0.635  -0.509  -0.419  -0.347  -0.300  -0.268  -0.935  -0.763  -0.743  -0.654  -0.545  -0.430  -0.358
   -0.301  -0.264  -0.952  -0.871  -0.825  -0.803  -0.830  -0.884  -0.908  -0.247  -0.231  -0.254  -0.251  -0.251  -0.242  -0.251

0     RUN:SEQ
      102:10
0   0.652   4045.3   3040.0   904.9   6.869    89.9   0.003504    0.044      1   1015
   -0.870  -0.725  -0.734  -0.636  -0.506  -0.415  -0.336  -0.285  -0.250  -0.909  -0.735  -0.714  -0.645  -0.526  -0.412  -0.341
   -0.288  -0.251  -0.945  -0.870  -0.812  -0.801  -0.820  -0.877  -0.891  -0.239  -0.224  -0.242  -0.240  -0.240  -0.234  -0.248

0     RUN:SEQ
      102:10
0   0.652   4046.6   3041.5   904.9   6.867    89.1   0.003504    0.044      1   1016
   -0.866  -0.722  -0.729  -0.633  -0.506  -0.412  -0.338  -0.287  -0.253  -0.912  -0.748  -0.721  -0.651  -0.541  -0.434  -0.360
   -0.304  -0.264  -0.944  -0.858  -0.813  -0.790  -0.825  -0.865  -0.885  -0.234  -0.218  -0.241  -0.237  -0.235  -0.236  -0.250
1TST-560 PH-1 TA-22  102:11          ID-PRESSOUT3          10 JAN 83 17:43      PAGE  19
0     RUN:SEQ
      102:11
0   0.651   4046.1   3042.7   903.4   6.859    89.3   0.003504    0.042      1   1016
   -0.864  -0.724  -0.735  -0.641  -0.516  -0.421  -0.344  -0.292  -0.258  -0.917  -0.750  -0.726  -0.649  -0.537  -0.424  -0.350
   -0.297  -0.258  -0.955  -0.878  -0.825  -0.820  -0.835  -0.880  -0.902  -0.242  -0.226  -0.247  -0.248  -0.244  -0.251  -0.259

0     RUN:SEQ
      102:12
0   0.652   4045.7   3040.8   904.6   6.857    89.7   0.003500    0.043      1   1017
   -0.867  -0.720  -0.728  -0.633  -0.521  -0.416  -0.344  -0.292  -0.256  -0.918  -0.755  -0.719  -0.648  -0.537  -0.433  -0.356
   -0.295  -0.263  -0.953  -0.875  -0.819  -0.812  -0.851  -0.877  -0.898  -0.246  -0.233  -0.253  -0.261  -0.254  -0.247  -0.258

0     RUN:SEQ
      102:13
0   0.651   4044.4   3040.9   903.4   6.864    87.7   0.003512    0.043      1   1018
   -0.862  -0.734  -0.743  -0.645  -0.513  -0.416  -0.349  -0.299  -0.263  -0.924  -0.758  -0.734  -0.651  -0.538  -0.422  -0.348
   -0.294  -0.257  -0.958  -0.873  -0.821  -0.804  -0.837  -0.871  -0.903  -0.243  -0.227  -0.252  -0.247  -0.249  -0.240  -0.249

0     RUN:SEQ
      102:14
0   0.651   4045.4   3042.9   902.7   6.883    87.6   0.003515    0.048      1   1019
   -0.857  -0.718  -0.721  -0.632  -0.510  -0.414  -0.352  -0.302  -0.265  -0.924  -0.753  -0.731  -0.646  -0.532  -0.423  -0.350
   -0.297  -0.259  -0.947  -0.864  -0.806  -0.796  -0.824  -0.868  -0.894  -0.245  -0.227  -0.247  -0.248  -0.244  -0.238  -0.250
1TST-560 PH-1 TA-22  102:15          ID-PRESSOUT3          10 JAN 83 17:43      PAGE  20
0     RUN:SEQ
      102:15
```

```
 0   0.652   4044.9   3040.0   904.6   6.863    89.3   0.003501    0.043      1   1022
    -0.863  -0.719  -0.729  -0.628  -0.508  -0.418  -0.348  -0.294  -0.260  -0.917  -0.762  -0.726  -0.649  -0.533  -0.425  -0.350
    -0.294  -0.256  -0.946  -0.866  -0.811  -0.809  -0.830  -0.867  -0.890  -0.238  -0.222  -0.242  -0.243  -0.241  -0.238  -0.251
-
 0      RUN:SEQ
        102:16
 0   0.651   4044.8   3041.9   903.0   6.856    89.4   0.003503    0.042      1   1023
    -0.859  -0.713  -0.721  -0.621  -0.501  -0.405  -0.338  -0.290  -0.256  -0.911  -0.748  -0.716  -0.646  -0.532  -0.421  -0.348
    -0.293  -0.256  -0.952  -0.872  -0.813  -0.805  -0.828  -0.877  -0.897  -0.236  -0.219  -0.243  -0.241  -0.240  -0.235  -0.251
-
 0      RUN:SEQ
        102:17
 0   0.651   4044.7   3041.7   903.1   6.851    89.7   0.003500    0.044      1   1023
    -0.860  -0.717  -0.728  -0.632  -0.501  -0.413  -0.341  -0.293  -0.256  -0.918  -0.763  -0.726  -0.644  -0.527  -0.415  -0.347
    -0.297  -0.258  -0.946  -0.865  -0.813  -0.803  -0.823  -0.870  -0.880  -0.232  -0.216  -0.238  -0.239  -0.233  -0.239  -0.253
-
 0      RUN:SEQ
        102:18
 0   0.650   4046.7   3039.3   901.9   6.847    89.8   0.003503    0.039      1   1024
    -0.870  -0.722  -0.734  -0.635  -0.506  -0.419  -0.348  -0.299  -0.266  -0.923  -0.757  -0.727  -0.645  -0.528  -0.419  -0.347
    -0.294  -0.256  -0.953  -0.878  -0.821  -0.805  -0.830  -0.877  -0.905  -0.231  -0.211  -0.239  -0.238  -0.236  -0.239  -0.251
1IST-560 PI--1 TA-22   102:19          3D-PRESSGUT3          10 JAN 83 17:43        PAGE  21
 0      RUN:SEQ
        102:19
 0   0.652   4044.7   3038.2   905.8   6.855    90.0   0.003495    0.045      1   1024
    -0.857  -0.715  -0.728  -0.627  -0.503  -0.413  -0.334  -0.285  -0.250  -0.898  -0.745  -0.708  -0.649  -0.527  -0.423  -0.352
    -0.298  -0.255  -0.939  -0.855  -0.804  -0.789  -0.819  -0.863  -0.888  -0.238  -0.222  -0.245  -0.243  -0.243  -0.235  -0.244
-
 0      RUN:SEQ
        102:20
 0   0.652   4043.3   3038.5   904.5   6.846    90.2   0.003494    0.078      1   1025
    -0.861  -0.716  -0.727  -0.631  -0.504  -0.416  -0.350  -0.299  -0.264  -0.913  -0.753  -0.719  -0.644  -0.533  -0.421  -0.347
    -0.294  -0.257  -0.938  -0.865  -0.818  -0.810  -0.833  -0.871  -0.892  -0.240  -0.224  -0.246  -0.248  -0.245  -0.231  -0.244
-
 0      RUN:SEQ
        103:1
 0   0.649   4051.8   3052.5   900.3   6.903    86.3   0.003533    0.041      1   1228
    -0.925  -0.737  -0.729  -0.635  -0.510  -0.421  -0.339  -0.288  -0.253  -0.920  -0.739  -0.728  -0.636  -0.525  -0.416  -0.342
    -0.288  -0.250  -0.942  -0.875  -0.829  -0.801  -0.828  -0.877  -0.917  -0.239  -0.225  -0.246  -0.244  -0.243  -0.240  -0.247
-
 0      RUN:SEQ
        103:2
 0   0.652   4054.4   3048.3   905.8   6.915    86.8   0.003526    0.039      1   1229
    -0.920  -0.732  -0.726  -0.626  -0.500  -0.407  -0.325  -0.282  -0.248  -0.911  -0.737  -0.721  -0.631  -0.515  -0.406  -0.333
    -0.281  -0.245  -0.941  -0.858  -0.811  -0.779  -0.813  -0.864  -0.898  -0.232  -0.217  -0.239  -0.237  -0.232  -0.232  -0.244
```

```
1TST-560 PH-1 TA-22  10333          ID-PRESSOUT3          10 JAN 83@17:43       PAGE  22
 0      RUN:SEQ
        10333
 0   0.651    4046.1    3042.2    903.8    6.894     87.2    0.003517    0.040        1   1230.
    -0.914   -0.730    -0.722   -0.628   -0.506    -0.418   -0.343   -0.292   -0.259   -0.923   -0.752   -0.731   -0.647   -0.533   -0.429   -0.351
    -0.297   -0.259    -0.947   -0.868   -0.814    -0.802   -0.821   -0.870   -0.899   -0.229   -0.216   -0.237   -0.236   -0.234   -0.231   -0.241
 -
 0      RUN:SEQ
        10334
 0   0.652    4035.3    3032.3    902.8    6.870     87.9    0.003502    0.041        1   1230.
    -0.911   -0.725    -0.718   -0.615   -0.489    -0.402   -0.344   -0.292   -0.259   -0.929   -0.744   -0.734   -0.638   -0.521   -0.405   -0.332
    -0.280   -0.247    -0.949   -0.871   -0.820    -0.807   -0.827   -0.877   -0.878   -0.226   -0.211   -0.233   -0.230   -0.229   -0.238   -0.248
 -
 0      RUN:SEQ
        10335
 0   0.652    4039.3    3036.0    902.3    6.864     88.3    0.003503    0.035        1   1231
    -0.911   -0.725    -0.710   -0.627   -0.501    -0.412   -0.337   -0.283   -0.248   -0.902   -0.741   -0.705   -0.641   -0.523   -0.412   -0.341
    -0.287   -0.250    -0.949   -0.872   -0.815    -0.796   -0.830   -0.874   -0.883   -0.221   -0.207   -0.231   -0.226   -0.224   -0.229   -0.239
 -
 0      RUN:SEQ
        10336
 0   0.650    4045.7    3049.1    901.3    6.866     88.7    0.003514    0.041        1   1232
    -0.923   -0.736    -0.727   -0.631   -0.509    -0.415   -0.344   -0.294   -0.261   -0.919   -0.755   -0.724   -0.633   -0.510   -0.402   -0.332
    -0.274   -0.244    -0.959   -0.879   -0.824    -0.822   -0.837   -0.885   -0.887   -0.236   -0.223   -0.242   -0.240   -0.243   -0.234   -0.245
1TST-560 PH-1 TA-22  10435          ID-PRESSOUT3          10 JAN 83@17:43       PAGE  23
 0      RUN:SEQ
        10435
 0   0.653    4036.4    3031.1    904.5    6.859     87.9    0.003534    0.041       11   1412
    -0.927   -0.744    -0.736   -0.626   -0.503    -0.418   -0.348   -0.298   -0.264   -0.922   -0.747   -0.730   -0.650   -0.536   -0.419   -0.343
    -0.287   -0.250    -0.944   -0.877   -0.824    -0.791   -0.825   -0.875   -0.913   -0.245   -0.229   -0.245   -0.243   -0.243   -0.239   -0.251
 -
 0      RUN:SEQ
        10511.01
 0   0.651    4044.5    3042.8    902.1    6.925     84.8    0.003532    0.050       12   1526
    -0.909   -0.725    -0.724   -0.615   -0.494    -0.401   -0.336   -0.286   -0.252   -0.915   -0.736   -0.721   -0.636   -0.518   -0.411   -0.336
    -0.283   -0.247    -0.947   -0.871   -0.818    -0.786   -0.823   -0.876   -0.899   -0.224   -0.209   -0.229   -0.227   -0.224   -0.226   -0.237
 -
 0      RUN:SEQ
        10711
 0   0.652    4054.8    3047.0    907.1    6.980     83.2    0.003549    0.047       13   1038
    -0.906   -0.744    -0.730   -0.639   -0.513    -0.426   -0.354   -0.303   -0.268   -0.928   -0.761   -0.738   -0.656   -0.545   -0.424   -0.349
    -0.295   -0.259    -0.959   -0.876   -0.831    -0.822   -0.850   -0.869   -0.902   -0.239   -0.226   -0.240   -0.239   -0.236   -0.240   -0.248
 -
 0      RUN:SEQ
        10911
```

```
0   0.655   4046.5   2035.9   910.7   6.955   85.1   0.003526   0.039   2   1234
   -0.894  -0.741  -0.737  -0.621  -0.458  -0.408  -0.346  -0.297  -0.260  -0.927  -0.762  -0.729  -0.651  -0.537  -0.423  -0.348
   -0.251  -0.255  -0.557  -0.871  -0.821  -0.795  -0.831  -0.873  -0.904  -0.233  -0.221  -0.233  -0.242  -0.241  -0.233  -0.244
1TST-560 PP-1 TA-22  10032          ID-PRESSOUT3          10 JAN 83@17:43        PAGE  24
0      RUN:SEQ
       10832
0   0.653   4040.4   3032.8   906.6   6.872   88.9   0.003497   0.046   2   1238
   -0.865  -0.728  -0.724  -0.623  -0.496  -0.405  -0.343  -0.292  -0.258  -0.928  -0.759  -0.729  -0.636  -0.525  -0.410  -0.333
   -0.275  -0.241  -0.954  -0.877  -0.826  -0.811  -0.841  -0.885  -0.894  -0.232  -0.216  -0.238  -0.238  -0.241  -0.241  -0.245
0      RUN:SEQ
       10833
0   0.653   4042.0   3035.7   905.6   6.857   89.7   0.003495   0.042   2   1239
   -0.864  -0.726  -0.722  -0.620  -0.496  -0.404  -0.338  -0.293  -0.259  -0.919  -0.741  -0.724  -0.638  -0.519  -0.428  -0.348
   -0.291  -0.252  -0.562  -0.880  -0.826  -0.812  -0.837  -0.879  -0.898  -0.242  -0.225  -0.244  -0.244  -0.244  -0.244  -0.255
0      RUN:SEQ
       10834
0   0.654   4041.9   3032.1   900.4   6.853   90.5   0.003486   0.046   2   1240
   -0.877  -0.736  -0.735  -0.639  -0.513  -0.419  -0.339  -0.293  -0.259  -0.917  -0.760  -0.716  -0.641  -0.524  -0.410  -0.334
   -0.279  -0.242  -0.557  -0.874  -0.824  -0.810  -0.837  -0.879  -0.900  -0.241  -0.224  -0.244  -0.244  -0.246  -0.227  -0.244
0      RUN:SEQ
       10835
0   0.655   4043.5   3031.6   910.0   6.842   91.7   0.003479   0.044   2   1241
   -0.868  -0.729  -0.725  -0.625  -0.500  -0.405  -0.341  -0.291  -0.258  -0.916  -0.757  -0.719  -0.653  -0.539  -0.423  -0.341
   -0.287  -0.251  -0.964  -0.882  -0.825  -0.792  -0.831  -0.881  -0.881  -0.236  -0.215  -0.237  -0.237  -0.240  -0.238  -0.240
1TST-560 PP-1 TA-22  10931          ID-PRESSOUT3          10 JAN 83@17:43        PAGE  25
0      RUN:SEQ
       10931
0   0.657   2912.2   2179.4   658.6   5.082   79.5   0.002559   0.043   8   1408
   -0.824                  -0.626  -0.505  -0.409  -0.306  -0.253  -0.222          -0.760  -0.705  -0.601  -0.483  -0.338  -0.343
   -0.290  -0.249  -0.888                          -0.749  -0.826  -0.858  -0.839  -0.208  -0.199  -0.243  -0.247  -0.242  -0.218  -0.209
0      RUN:SEQ
       10932
0   0.651   2941.1   2212.2   656.3   5.078   81.4   0.002584   0.049   8   1409
   -0.817          -0.673  -0.612  -0.454  -0.397  -0.298  -0.245  -0.214  -0.898  -0.746  -0.702  -0.596  -0.478  -0.374  -0.332
   -0.280  -0.243  -0.939          -0.596  -0.786  -0.816  -0.854  -0.823  -0.188  -0.178  -0.221  -0.220  -0.224  -0.202  -0.206
0      RUN:SEQ
       10933
0   0.652   2934.9   2205.3   656.8   5.059   82.7   0.002571   0.049   8   1411
   -0.811          -0.671  -0.611  -0.461  -0.397  -0.298  -0.243  -0.213  -0.892  -0.752  -0.697  -0.589  -0.478  -0.371  -0.332
   -0.278  -0.240  -0.877          -0.693  -0.775  -0.815  -0.852  -0.834  -0.195  -0.189  -0.231  -0.235  -0.229  -0.203  -0.205
```

```
0     RUN#SEQ
      10934
0  0.654   2921.0   2191.2   656.4   5.033    83.6   0.002551    0.049      8   1413
  -0.817          -0.670  -0.616  -0.492  -0.394  -0.305  -0.250  -0.219          -0.757  -0.701  -0.589  -0.474  -0.368  -0.326
  -0.275  -0.235  -0.815                   -0.775  -0.809  -0.842  -0.836  -0.192  -0.182  -0.231  -0.232  -0.231  -0.203  -0.203
1TS1-560 PR-1 TA-22  10935          ID-PRESSOUT3          10 JAN 83@17:43       PAGE  26
0     RUN#SEQ
      10935
0  0.654   2924.3   2193.4   657.4   5.020    85.3   0.002546    0.051      8   1416
  -0.820          -0.674  -0.617  -0.496  -0.399  -0.303  -0.249  -0.219          -0.750  -0.710  -0.586  -0.477  -0.373  -0.328
  -0.276  -0.240  -0.882                   -0.777  -0.822  -0.847  -0.823  -0.186  -0.180  -0.227  -0.228  -0.224  -0.194  -0.197
0     RUN#SEQ
      10936
0  0.654   2923.0   2192.6   657.0   5.012    85.8   0.002543    0.048      8   1417
  -0.808          -0.666  -0.605  -0.478  -0.382  -0.297  -0.245  -0.214          -0.750  -0.703  -0.587  -0.470  -0.369  -0.327
  -0.277  -0.238  -0.875                   -0.796  -0.815  -0.852  -0.831  -0.191  -0.178  -0.228  -0.231  -0.227  -0.197  -0.197
0     RUN#SEQ
      10937
0  0.654   2921.7   2191.7   656.6   5.004    86.2   0.002540    0.045      8   1419
  -0.822          -0.672  -0.621  -0.498  -0.403  -0.294  -0.243  -0.213          -0.751  -0.703  -0.586  -0.472  -0.365  -0.331
  -0.280  -0.242  -0.895                   -0.795  -0.818  -0.855  -0.822  -0.186  -0.175  -0.230  -0.230  -0.227  -0.200  -0.205
0     RUN#SEQ
      10938
0  0.655   2921.7   2190.5   657.6   5.003    86.6   0.002537    0.051      8   1420
  -0.819          -0.667  -0.618  -0.501  -0.405  -0.301  -0.249  -0.220          -0.753  -0.710  -0.595  -0.480  -0.376  -0.334
  -0.282  -0.242  -0.891                   -0.788  -0.812  -0.851  -0.833  -0.196  -0.182  -0.234  -0.233  -0.234  -0.201  -0.203
1TS1-560 PR-1 TA-22  10939          ID-PRESSOUT3          10 JAN 83@17:43       PAGE  27
0     RUN#SEQ
      10939
0  0.654   2923.7   2194.4   656.2   4.994    87.1   0.002538    0.048      8   1422
  -0.815          -0.673  -0.614  -0.498  -0.396  -0.311  -0.258  -0.229          -0.765  -0.710  -0.597  -0.487  -0.378  -0.338
  -0.286  -0.248  -0.888                   -0.805  -0.820  -0.854  -0.843  -0.196  -0.184  -0.235  -0.236  -0.237  -0.204  -0.205
0     RUN#SEQ
      10940
0  0.655   2921.7   2190.7   657.4   4.988    87.8   0.002532    0.051      8   1425
  -0.810          -0.664  -0.612  -0.491  -0.397  -0.290  -0.237  -0.206  -0.877  -0.742  -0.688  -0.585  -0.469  -0.365  -0.326
  -0.274  -0.231  -0.884                   -0.787  -0.812  -0.850  -0.822  -0.187  -0.175  -0.224  -0.222  -0.223  -0.200  -0.204
0     RUN#SEQ
      10941
```

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 0   0.654   2921.4   2191.4   654.7   4.978    88.4   0.0[illegible]529    0.047      8   1427
    -0.817           -0.668  -0.614  -0.497  -0.397  -0.295  -0.244  -0.214              -0.756  -0.701  -0.589  -0.475  -0.373  -0.334
    -0.280  -0.241  -0.874                   -0.788  -0.808  -0.843  -0.832  -0.193  -0.188  -0.234  -0.235  -0.234  -0.196  -0.200
-
 0      RUN:SEG
        109:12
 0   0.654   2922.2   2193.0   656.1   4.992    87.1   0.002537    0.053      8   1431
    -0.808           -0.665  -0.605  -0.481  -0.388  -0.294  -0.243  -0.212              -0.748  -0.704  -0.534  -0.470  -0.383  -0.328
    -0.280  -0.241  -0.874                   -0.770  -0.762  -0.802  -0.836  -0.831  -0.191  -0.177  -0.228  -0.232  -0.232  -0.192  -0.194
1TST-Stu PN-1 IN-22  109:13          ID-PRESSOUT3          10 JAN 83:17:43      PAGE  28
 0      RUN:SEG
        109:13
 0   0.654   2921.5   2192.5   655.8   4.989    87.2   0.002536    0.049      8   1434
    -0.807           -0.664  -0.603  -0.488  -0.394  -0.286  -0.234  -0.205  -0.877  -0.743  -0.688  -0.591  -0.476  -0.385  -0.333
    -0.280  -0.239  -0.863                   -0.779  -0.810  -0.845  -0.814  -0.186  -0.174  -0.222  -0.223  -0.220  -0.192  -0.195
-
 0      RUN:SEG
        109:14
 0   0.652   2922.0   2195.6   653.8   4.974    88.0   0.002535    0.049      8   1436
    -0.809   2.020   -0.668  -0.615  -0.487  -0.389  -0.296  -0.245  -0.217  -0.887  -0.750  -0.698  -0.577  -0.459  -0.388  -0.316
    -0.285  -0.228  -0.883                   -0.675  -0.764  -0.807  -0.842  -0.819  -0.186  -0.177  -0.221  -0.222  -0.224  -0.200  -0.199
-
 0      RUN:SEG
        109:15
 0   0.652   2921.6   2196.9   653.2   4.906    88.4   0.002533    0.[illegible]      8   1439
    -0.811           -0.666  -0.613  -0.491  -0.390  -0.288  -0.237  -0.[illegible]  -0.886  -0.748  -0.709  -0.584  -0.467  -0.383  -0.323
    -0.272  -0.232  -0.874                   -0.676  -0.789  -0.810  -0.842  -0.[illegible]  -0.190  -0.180  -0.223  -0.223  -0.226  -0.192  -0.198
-
 0      RUN:SEG
        109:16
 0   0.651   2922.5   2199.2   651.4   4.957    88.8   0.002534    0.047      8   1441
    -0.809           -0.668  -0.603  -0.482  -0.392  -0.277  -0.229  -0.208  -0.883  -0.732  -0.685  -0.579  -0.465  -0.360  -0.318
    -0.268  -0.230  -0.[illegible]                   -0.[illegible]  -0.788  -0.819  -0.854  -0.824  -0.186  -0.174  -0.226  -0.227  -0.225  -0.193  -0.197
1TST-Stu PN-1 IN-22  109:17          ID-PRESSOUT3          10 JAN 83:17:43      PAGE  29
 0      RUN:SEG
        109:17
 0   0.650   2921.0   2198.8   650.5   4.947    89.2   0.002532    0.047      8   1442
    -0.808           -0.670  -0.602  -0.484  -0.390  -0.291  -0.241  -0.213  -0.886  -0.751  -0.705  -0.587  -0.472  -0.369  -0.325
    -0.274  -0.233  -0.[illegible]                   -0.678  -0.783  -0.810  -0.841  -0.[illegible]  -0.[illegible]  -0.[illegible]  -0.232  -0.23[illegible]  -0.230  -0.195  -0.198
-
 0      RUN:SEG
        110:2
 0   0.495   4057.1   3041.6   513.3   7.024    81.9   0.003853    0.031     14   922
    -0.881  -0.728  -0.744  -0.643  -0.522  -0.434  -0.355  -0.303  -0.265  -0.919  -0.757  -0.725  -0.641  -0.538  -0.417  -0.340
    -0.262  -0.[illegible]  -0.[illegible]  -0.870  -0.816  -0.798  -0.836  -0.880  -0.887  -0.233  -0.219  -0.238  -0.237  -0.237  -0.236  -0.248
```

```
0     RUN:SEC
      110:4
0   0.652   4037.9   3033.6   903.9   6.943   83.8   0.003530   0.042   16   824
   -0.876  -0.721  -0.737  -0.643  -0.517  -0.424  -0.330  -0.298  -0.260  -0.919  -0.773  -0.726  -0.653  -0.544  -0.431  -0.355
   -0.299  -0.259  -0.958  -0.875  -0.822  -0.806  -0.835  -0.878  -0.884  -0.239  -0.225  -0.241  -0.243  -0.246  -0.243  -0.256
-
0     RUN:SEC
      110:5
0   0.654   4045.3   3034.2   909.5   6.935   85.9   0.003519   0.043   14   827
   -0.878  -0.722  -0.735  -0.646  -0.522  -0.427  -0.348  -0.298  -0.263  -0.923  -0.767  -0.726  -0.665  -0.539  -0.426  -0.349
   -0.290  -0.253  -0.945  -0.864  -0.816  -0.799  -0.838  -0.875  -0.896  -0.238  -0.228  -0.243  -0.245  -0.247  -0.241  -0.251
1TST-560 PH-1 IN-22  111:1          ID-PRESSOUT3          10 JAN 83:17:43      PAGE  30
0     RUN:SEC
      111:1
0   0.659   4041.1   3019.3   917.7   7.042   80.9   0.003538   0.044   16   954
   -0.922  -0.738  -0.754  -0.634  -0.508  -0.414  -0.343  -0.293  -0.262  -0.933  -0.763  -0.737  -0.643  -0.532  -0.417  -0.342
   -0.285  -0.245  -0.948  -0.872  -0.826  -0.812  -0.833  -0.870  -0.898  -0.240  -0.220  -0.244  -0.242  -0.245  -0.233  -0.243
-
0     RUN:SEC
      111:2
0   0.652   4048.8   3043.2   904.3   6.938   85.0   0.003533   0.037   16   956
   -0.921  -0.736  -0.733  -0.640  -0.517  -0.419  -0.335  -0.286  -0.252  -0.917  -0.759  -0.721  -0.655  -0.543  -0.431  -0.353
   -0.258  -0.240  -0.964  -0.885  -0.826  -0.798  -0.835  -0.878  -0.909  -0.241  -0.224  -0.246  -0.245  -0.247  -0.236  -0.248
-
0     RUN:SEC
      111:3
0   0.654   4048.9   3038.5   909.0   6.967   84.0   0.003535   0.042   16   958
   -0.917  -0.730  -0.725  -0.629  -0.509  -0.412  -0.339  -0.291  -0.258  -0.923  -0.755  -0.725   0.476  -0.532  -0.419  -0.342
   -0.289  -0.253  -0.229  -0.871  -0.815  -0.806  -0.835  -0.878  -0.896  -0.233  -0.217  -0.240  -0.235  -0.238  -0.242  -0.250
-
0     RUN:SEC
      112:2
0   0.652   4054.0   3048.1   905.7   6.930   85.9   0.003532   0.045    2   1111
   -0.926  -0.731  -0.742  -0.636  -0.510  -0.419  -0.331  -0.286  -0.253  -0.914  -0.758  -0.727  -0.645  -0.532  -0.418  -0.342
   -0.287  -0.251  -0.947  -0.875  -0.820  -0.809  -0.829  -0.875  -0.887  -0.235  -0.219  -0.237  -0.241  -0.241  -0.242  -0.249
1TST-560 PH-1 IN-22  112:3          ID-PHESSOUT3          10 JAN 83:17:43      PAGE  31
0     RUN:SEC
      112:3
0   0.654   4046.2   3035.6   909.0   6.938   85.6   0.003522   0.045    2   1113
   -0.914  -0.719  -0.730  -0.627  -0.499  -0.410  -0.344  -0.297  -0.263  -0.923  -0.759  -0.734  -0.656  -0.544  -0.431  -0.350
   -0.296  -0.256  -0.948  -0.862  -0.816  -0.801  -0.822  -0.868  -0.906  -0.240  -0.226  -0.245  -0.242  -0.246  -0.241  -0.249
-
0     RUN:SEC
      112:4
```

```
 0   0.654   4042.7   3032.3   908.9   6.914    88.9   0.003510    0.046      2   1115
    -0.884  -0.725  -0.741  -0.636  -0.511  -0.419  -0.364  -0.310  -0.272  -0.938  -0.775  -0.741  -0.650  -0.534  -0.426  -0.348
    -0.250  -0.254  -0.257  -0.877  -0.821  -0.812  -0.836  -0.876  -0.893  -0.238  -0.223  -0.244  -0.241  -0.244  -0.236  -0.243

 0      RUN:SEG
        112:5
 0   0.654   4045.7   3035.7   908.6   6.891    88.4   0.003503    0.046      2   1117
    -0.873  -0.722  -0.734  -0.627  -0.504  -0.408  -0.344  -0.295  -0.263  -0.916  -0.758  -0.724  -0.668  -0.548  -0.436  -0.349
    -0.248  -0.258  -0.965  -0.879  -0.821  -0.804  -0.837  -0.878  -0.898  -0.238  -0.220  -0.238  -0.243  -0.243  -0.237  -0.249

 0      RUN:SEG
        112:6
 0   0.654   4042.4   3033.6   907.6   6.863    89.7   0.003493    0.052      2   1119
    -0.871  -0.720  -0.730  -0.629  -0.505  -0.413  -0.341  -0.291  -0.256  -0.912  -0.754  -0.723  -0.644  -0.534  -0.419  -0.339
    -0.247  -0.249  -0.964  -0.876  -0.829  -0.810  -0.838  -0.884  -0.888  -0.230  -0.220  -0.234  -0.235  -0.236  -0.244  -0.250
ITST-560 Pr-1 TA-22  112:7          ID-PRESSOUT3          10 JAN 83@17:43       PAGE  32
 0      RUN:SEG
        112:7
 0   0.654   4042.7   3033.7   907.7   6.854    90.4   0.003489    0.043      2   1121
    -0.883  -0.726  -0.738  -0.634  -0.505  -0.410  -0.348  -0.293  -0.258  -0.909  -0.748  -0.721  -0.640  -0.530  -0.415  -0.338
    -0.280  -0.244  -0.944  -0.866  -0.815  -0.805  -0.828  -0.877  -0.903  -0.240  -0.228  -0.244  -0.245  -0.243  -0.237  -0.245

 0      RUN:SEG
        112:8
 0   0.652   4041.0   3037.2   904.4   6.819    91.8   0.003482    0.043      2   1123
    -0.867  -0.716  -0.725  -0.622  -0.500  -0.405  -0.337  -0.288  -0.253  -0.910  -0.752  -0.717  -0.638  -0.525  -0.410  -0.335
    -0.275  -0.242  -0.934  -0.853  -0.801  -0.797  -0.811  -0.858  -0.886  -0.229  -0.217  -0.227  -0.226  -0.231  -0.237  -0.247

 0      RUN:SEG
        112:9
 0   0.650   4044.7   3043.8   901.4   6.799    92.6   0.003483    0.046      2   1125
    -0.876  -0.725  -0.736  -0.631  -0.509  -0.422  -0.339  -0.291  -0.257  -0.912  -0.752  -0.725  -0.642  -0.528  -0.416  -0.334
    -0.276  -0.240  -0.936  -0.862  -0.811  -0.805  -0.828  -0.870  -0.897  -0.232  -0.219  -0.239  -0.234  -0.236  -0.237  -0.250

 0      RUN:SEG
        112:10
 0   0.653   4044.4   3037.5   906.2   6.807    93.1   0.003475    0.042      2   1127
    -0.882  -0.726  -0.730  -0.636  -0.509  -0.415  -0.336  -0.286  -0.252  -0.912  -0.741  -0.719  -0.654  -0.538  -0.424  -0.347
    -0.285  -0.250  -0.952  -0.874  -0.819  -0.808  -0.824  -0.866  -0.887  -0.232  -0.214  -0.234  -0.235  -0.235  -0.232  -0.244
ITST-560 Pr-1 TA-22  112:11         ID-PRESSOUT3          10 JAN 83@17:43       PAGE  33
 0      RUN:SEG
        112:11
 0   0.651   4043.4   3040.9   902.6   6.784    93.7   0.003474    0.043      2   1129
    -0.868  -0.716  -0.726  -0.627  -0.505  -0.413  -0.338  -0.290  -0.257  -0.917  -0.751  -0.724  -0.647  -0.535  -0.422  -0.345
    -0.283  -0.250  -0.949  -0.865  -0.810  -0.804  -0.823  -0.863  -0.887  -0.233  -0.220  -0.232  -0.235  -0.234  -0.244  -0.254
```

```
0     RUN:SEQ
      112:12
0   0.650   4042.7   3042.4   900.9   6.768   94.4   0.003471   0.039      2  1131
   -0.882  -0.728  -0.740  -0.635  -0.507  -0.417  -0.340  -0.293  -0.256  -0.922  -0.752  -0.730  -0.650  -0.534  -0.424  -0.347
   -0.291  -0.254  -0.241  -0.862  -0.810  -0.796  -0.820  -0.863  -0.915  -0.248  -0.234  -0.248  -0.248  -0.254  -0.243  -0.250

0     RUN:SEQ
      112:13
0   0.651   4044.0   3042.9   901.0   6.757   95.3   0.003465   0.040      2  1133
   -0.858  -0.719  -0.734  -0.673  -0.505  -0.408  -0.348  -0.297  -0.263  -0.918  -0.767  -0.725  -0.652  -0.545  -0.432  -0.353
   -0.298  -0.257  -0.536  -0.858  -0.794  -0.795  -0.823  -0.863  -0.894  -0.235  -0.220  -0.242  -0.239  -0.240  -0.229  -0.238

0     RUN:SEQ
      112:14
0   0.650   4045.4   3044.5   901.4   6.751   95.7   0.003465   0.041      2  1135
   -0.879  -0.725  -0.736  -0.641  -0.516  -0.419  -0.337  -0.287  -0.252  -0.909  -0.752  -0.713  -0.649  -0.535  -0.423  -0.343
   -0.287  -0.248  -0.945  -0.869  -0.817  -0.804  -0.825  -0.866  -0.894  -0.240  -0.216  -0.240  -0.242  -0.241  -0.233  -0.243
1TST-560 PP-1 TA-22  113:1          ID-PRESSOUT3          10 JAN 83 17:43      PAGE  34
0     RUN:SEQ
      113:1
0   0.652   4039.3   3032.7   905.7   6.850   89.5   0.003493   0.042      15  1245
   -0.877  -0.737  -0.730  -0.626  -0.504  -0.416  -0.348  -0.299  -0.262  -0.919  -0.762  -0.726  -0.643  -0.533  -0.419  -0.337
   -0.295  -0.247  -0.939  -0.861  -0.809  -0.794  -0.819  -0.860  -0.889  -0.237  -0.225  -0.238  -0.235  -0.239  -0.240  -0.249

0     RUN:SEQ
      113:2
0   0.653   4046.0   3039.0   905.2   6.841   91.0   0.003490   0.046      15  1247
   -0.875  -0.736  -0.728  -0.633  -0.507  -0.415  -0.346  -0.297  -0.260  -0.919  -0.754  -0.728  -0.641  -0.529  -0.417  -0.341
   -0.295  -0.247  -0.942  -0.869  -0.823  -0.819  -0.836  -0.877  -0.891  -0.236  -0.226  -0.241  -0.237  -0.242  -0.233  -0.245

0     RUN:SEQ
      113:3
0   0.653   4042.6   3034.6   906.9   6.813   92.8   0.003474   0.045      15  1250
   -0.883  -0.743  -0.736  -0.637  -0.513  -0.419  -0.347  -0.297  -0.263  -0.914  -0.756  -0.726  -0.651  -0.538  -0.429  -0.350
   -0.297  -0.257  -0.944  -0.869  -0.811  -0.797  -0.821  -0.860  -0.890  -0.232  -0.218  -0.237  -0.237  -0.238  -0.231  -0.242

0     RUN:SEQ
      113:4
0   0.652   4043.4   3037.6   905.2   6.801   93.2   0.003474   0.046      15  1251
   -0.882  -0.740  -0.741  -0.635  -0.512  -0.423  -0.337  -0.289  -0.254  -0.910  -0.750  -0.719  -0.657  -0.544  -0.430  -0.352
   -0.298  -0.257  -0.951  -0.871  -0.817  -0.806  -0.837  -0.877  -0.901  -0.239  -0.223  -0.243  -0.243  -0.243  -0.243  -0.249
1TST-560 PP-1 TA-22  113:5          ID-PRESSOUT3          10 JAN 83 17:43      PAGE  35
0     RUN:SEQ
      113:5
```

```
 0   0.652   4041.8   3038.0   903.6   6.776    94.4   0.003467    0.042      15   1254
    -0.882  -0.740  -0.736  -0.639  -0.514  -0.422  -0.347  -0.298  -0.263  -0.924  -0.766  -0.733  -0.655  -0.550  -0.437  -0.353
    -0.296  -0.255  -0.941  -0.862  -0.809  -0.791  -0.824  -0.863  -0.896  -0.237  -0.228  -0.241  -0.240  -0.245  -0.240  -0.247
-
 0      RUN:SEQ
        113:6
 0   0.653   4043.6   3037.4   905.6   6.815    92.4   0.003479    0.047      15   1256
    -0.879  -0.737  -0.731  -0.626  -0.501  -0.417  -0.348  -0.296  -0.260  -0.920  -0.757  -0.729  -0.650  -0.537  -0.419  -0.344
    -0.290  -0.251  -0.960  -0.876  -0.821  -0.803  -0.833  -0.882  -0.890  -0.238  -0.221  -0.241  -0.243  -0.241  -0.241  -0.248
-
 0      RUN:SEQ
        113:7
 0   0.652   4042.7   3037.6   904.7   6.799    93.2   0.003474    0.044      15   1258
    -0.864  -0.726  -0.722  -0.620  -0.498  -0.409  -0.343  -0.296  -0.260  -0.923  -0.787  -0.726  -0.645  -0.535  -0.419  -0.340
    -0.286  -0.248  -0.956  -0.869  -0.818  -0.804  -0.830  -0.868  -0.889  -0.241  -0.224  -0.245  -0.244  -0.243  -0.236  -0.246
-
 0      RUN:SEQ
        113:8
 0   0.652   4042.8   3037.7   904.7   6.789    93.8   0.003470    0.044      15   1500
    -0.869  -0.730  -0.723  -0.616  -0.493  -0.404  -0.337  -0.291  -0.255  -0.914  -0.747  -0.721  -0.639  -0.531  -0.420  -0.346
    -0.285  -0.245  -0.938  -0.858  -0.809  -0.795  -0.819  -0.866  -0.895  -0.239  -0.223  -0.241  -0.244  -0.243  -0.231  -0.238
1151-560 FH-1 TA-22  11339          ID-PRESSOUT3          10 JAN 83 17:43      PAGE  36
 0      RUN:SEQ
        113:9
 0   0.652   4043.6   3038.0   903.1   6.782    94.4   0.003467    0.044      15   1301
    -0.874  -0.735  -0.727  -0.627  -0.504  -0.416  -0.337  -0.289  -0.249  -0.909  -0.753  -0.717  -0.636  -0.521  -0.408  -0.337
    -0.282  -0.243  -0.930  -0.859  -0.810  -0.809  -0.823  -0.862  -0.885  -0.231  -0.213  -0.231  -0.238  -0.240  -0.232  -0.242
-
 0      RUN:SEQ
        113:10
 0   0.651   4044.0   3041.5   902.7   6.767    94.9   0.003467    0.045      15   1304
    -0.870  -0.725  -0.727  -0.614  -0.488  -0.399  -0.338  -0.286  -0.251  -0.917  -0.753  -0.725  -0.643  -0.534  -0.422  -0.348
    -0.290  -0.248  -0.933  -0.856  -0.811  -0.788  -0.823  -0.866  -0.900  -0.238  -0.226  -0.242  -0.241  -0.244  -0.235  -0.242
-
 0      RUN:SEQ
        114:9
 0   0.651   2904.0   2184.5   647.8   5.004    82.2   0.002548    0.034       3   1422
    -0.885  -0.700  -0.697  -0.604  -0.481  -0.389  -0.307  -0.257  -0.225  -0.902  -0.740  -0.701  -0.610  -0.496  -0.383  -0.320
    -0.268  -0.230  -0.912  -0.830  -0.781  -0.774  -0.803  -0.838  -0.867  -0.205  -0.188  -0.219  -0.219  -0.215  -0.203  -0.209
-
 0      RUN:SEQ
        114:2
 0   0.653   2922.0   2144.4   654.8   5.035    83.0   0.002557    0.048       3   1423
    -0.870  -0.650  -0.664  -0.598  -0.478  -0.385  -0.301  -0.253  -0.221  -0.898  -0.791  -0.697  -0.606  -0.495  -0.382  -0.315
    -0.262  -0.222  -0.915  -0.835  -0.788  -0.786  -0.813  -0.850  -0.883  -0.203  -0.188  -0.217  -0.218  -0.218  -0.208  -0.215
```

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ITST-560 FH-1 TA-22  11433          ID-PRESSOUT3          10 JAN 83@17:43       PAGE  37
0     RUN:SEQ
      11433
0   0.653   2919.7   2193.1   653.9   5.025    83.5   0.002554   0.090      3  1425
   -0.881  -0.702  -0.696  -0.605  -0.485  -0.394  -0.308  -0.262  -0.232  -0.904  -0.747  -0.708  -0.609  -0.493  -0.379  -0.317
   -0.267  -0.231  -0.517  -0.834  -0.789  -0.794  -0.808  -0.850  -0.863  -0.209  -0.193  -0.225  -0.220  -0.222  -0.199  -0.206
-
0     RUN:SEQ
      11434
0   0.656   2918.5   2185.9   656.9   5.032    84.3   0.002545   0.092      3  1426
   -0.873  -0.691  -0.686  -0.599  -0.479  -0.386  -0.316  -0.265  -0.232  -0.906  -0.753  -0.704  -0.601  -0.487  -0.374  -0.314
   -0.267  -0.228  -0.515  -0.832  -0.792  -0.801  -0.809  -0.845  -0.878  -0.212  -0.193  -0.230  -0.229  -0.225  -0.213  -0.214
-
0     RUN:SEQ
      11435
0   0.655   2918.9   2189.0   655.9   5.021    84.5   0.002545   0.093      3  1428
   -0.867  -0.688  -0.679  -0.590  -0.471  -0.375  -0.305  -0.255  -0.223  -0.893  -0.727  -0.697  -0.607  -0.485  -0.369  -0.310
   -0.259  -0.221  -0.513  -0.835  -0.7[illegible]  -0.784  -0.808  -0.850  -0.866  -0.205  -0.191  -0.218  -0.217  -0.215  -0.202  -0.207
-
0     RUN:SEQ
      11436
0   0.656   2920.9   2183.7   658.4   5.024    85.0   0.002543   0.061      3  1430
   -0.864  -0.702  -0.698  -0.606  -0.484  -0.391  -0.308  -0.260  -0.227  -0.899  -0.735  -0.701  -0.602  -0.493  -0.376  -0.311
   -0.261  -0.227  -0.512  -0.836  -0.787  -0.783  -0.806  -0.845  -0.875  -0.208  -0.192  -0.222  -0.226  -0.225  -0.203  -0.207
ITST-560 FH-1 TA-22  11437          ID-PRESSOUT3          10 JAN 83@17:43       PAGE  38
0     RUN:SEQ
      11437
0   0.651   2919.2   2195.3   651.8   4.997    85.2   0.002547   0.047      3  1432
   -0.872  -0.692  -0.684  -0.592  -0.471  -0.375  -0.311  -0.260  -0.227  -0.906  -0.739  -0.712  -0.607  -0.491  -0.378  -0.313
   -0.261  -0.226  -0.503  -0.823  -0.774  -0.767  -0.794  -0.834  -0.861  -0.208  -0.187  -0.217  -0.223  -0.220  -0.206  -0.210
-
0     RUN:SEQ
      11438
0   0.653   2918.3   2192.1   653.6   4.999    85.5   0.002543   0.053      3  1434
   -0.877  -0.695  -0.690  -0.600  -0.477  -0.385  -0.301  -0.251  -0.219  -0.888  -0.732  -0.692  -0.604  -0.487  -0.375  -0.310
   -0.258  -0.222  -0.915  -0.853  -0.784  -0.768  -0.810  -0.848  -0.868  -0.202  -0.185  -0.214  -0.215  -0.215  -0.204  -0.210
-
0     RUN:SEQ
      11332
0   0.654   2934.1   2201.5   656.0   5.207    71.2   0.002623   0.059      4   928
   -0.863  -0.684  -0.682  -0.600  -0.472  -0.379  -0.303  -0.253  -0.220  -0.896  -0.734  -0.696  -0.591  -0.475  -0.365  -0.307
   -0.254  -0.219  -0.894  -0.817  -0.768  -0.773  -0.795  -0.837  -0.855  -0.195  -0.179  -0.218  -0.211  -0.215  -0.191  -0.197
-
0     RUN:SEQ
      11333
```

```
 0   0.653   2520.3   2193.0   654.5   5.110    76.0   0.002589   0.046      4    945
    -0.879  -0.655  -0.696  -0.613  -0.485  -0.393  -0.306  -0.260  -0.229  -0.914  -0.744  -0.714  -0.601  -0.491  -0.381  -0.324
    -0.272  -0.235  -0.915  -0.837  -0.786  -0.788  -0.824  -0.860  -0.871  -0.211  -0.197  -0.230  -0.230  -0.233  -0.206  -0.213
1TS1-560 PH-1 IA-22  11584          ID-PRESSOUT3          10 JAN 83@17:43       PAGE  39
 0      RUN:SEC
        11534
 0   0.653   2517.9   2191.6   653.7   5.097    77.3   0.002581   0.056      4    949
    -0.881  -0.698  -0.693  -0.602  -0.487  -0.394  -0.302  -0.254  -0.223  -0.906  -0.745  -0.707  -0.598  -0.477  -0.365  -0.305
    -0.254  -0.220  -0.902  -0.826  -0.777  -0.795  -0.810  -0.850  -0.880  -0.210  -0.194  -0.221  -0.224  -0.229  -0.206  -0.210
 0      HLA:SEC
        11585
 0   0.653   2520.3   2192.8   654.6   5.070    80.0   0.002570   0.046      4   1006
    -0.864  -0.687  -0.682  -0.593  -0.470  -0.381  -0.312  -0.261  -0.230  -0.903  -0.744  -0.709  -0.604  -0.488  -0.374  -0.313
    -0.263  -0.229  -0.908  -0.829  -0.782  -0.784  -0.810  -0.845  -0.868  -0.198  -0.185  -0.219  -0.219  -0.222  -0.198  -0.207
 0      RUN:SEC
        11586
 0   0.652   2919.6   2193.7   653.4   5.062    80.2   0.002569   0.048      4   1008
    -0.881  -0.659  -0.699  -0.609  -0.491  -0.396  -0.307  -0.255  -0.226  -0.903  -0.742  -0.710  -0.609  -0.492  -0.379  -0.317
    -0.267  -0.225  -0.909  -0.829  -0.780  -0.790  -0.815  -0.852  -0.864  -0.199  -0.183  -0.219  -0.216  -0.219  -0.208  -0.209
 0      RUN:SEC
        11587
 0   0.653   2921.3   2196.1   654.4   5.065    80.4   0.002569   0.049      4   1022
    -0.879  -0.701  -0.702  -0.615  -0.492  -0.596  -0.315  -0.269  -0.293  -0.912  -0.754  -0.712  -0.613  -0.496  -0.384  -0.325
    -0.276  -0.239  -0.921  -0.838  -0.789  -0.793  -0.819  -0.857  -0.870  -0.208  -0.193  -0.228  -0.229  -0.228  -0.216  -0.216
1TS1-560 PH-1 IA-22  11631          ID-PRESSOUT3          10 JAN 83@17:43       PAGE  40
 0      RUN:SEC
        11631
 0   0.654   2916.1   2188.6   654.5   5.135    74.2   0.002593   0.058      5   1220
    -0.863  -0.662  -0.673  -0.584  -0.462  -0.365  -0.293  -0.244  -0.200  -0.885  -0.716  -0.693  -0.602  -0.483  -0.372  -0.312
    -0.255  -0.220  -0.902  -0.827  -0.778  -0.790  -0.806  -0.845  -0.877  -0.200  -0.185  -0.219  -0.218  -0.217  -0.205  -0.210
 0      HLA:SEC
        11632
 0   0.652   2924.8   2197.4   654.6   5.098    78.0   0.002584   0.049      5   1227
    -0.876  -0.655  -0.692  -0.602  -0.479  -0.383  -0.296  -0.249  -0.219  -0.894  -0.721  -0.694  -0.589  -0.469  -0.362  -0.303
    -0.257  -0.220  -0.900  -0.825  -0.777  -0.791  -0.800  -0.840  -0.871  -0.202  -0.182  -0.221  -0.220  -0.220  -0.208  -0.213
 0      RUN:SEC
        11633
 0   0.653   2921.5   2194.0   654.7   5.065    80.5   0.002569   0.056      5   1244
    -0.859  -0.680  -0.679  -0.593  -0.474  -0.377  -0.296  -0.250  -0.220  -0.892  -0.722  -0.697  -0.589  -0.486  -0.380  -0.315
    -0.263  -0.226  -0.896  -0.821  -0.767  -0.771  -0.795  -0.836  -0.868  -0.199  -0.184  -0.218  -0.216  -0.216  -0.201  -0.204
```

```
0      RUN:SEQ
       117:2
0   0.651   2925.7   2700.5   653.0   5.079    79.2   0.002581    0.051      6   1425
   -0.366  -0.687  -0.663  -0.593  -0.474  -0.382  -0.296  -0.250  -0.218  -0.893  -0.731  -0.695  -0.599  -0.485  -0.374  -0.314
   -0.264  -0.227  -0.899  -0.819  -0.770  -0.775  -0.801  -0.841  -0.860  -0.201  -0.187  -0.216  -0.218  -0.215  -0.203  -0.207
1TST-560 PH-1 TN-22  118:2          ID-PRESSOUT3          10 JAN 83 17:43      PAGE  41
0      RUN:SEQ
       118:2
0   0.654   2931.3   2199.0   658.7   5.206    71.0   0.002622    0.053      7   839
   -0.876  -0.693  -0.690  -0.593  -0.487  -0.396  -0.297  -0.246  -0.216  -0.872  -0.731  -0.698  -0.609  -0.498  -0.385  -0.312
   -0.265  -0.231  -0.693  -0.820  -0.764  -0.752  -0.604  -0.842  -0.860  -0.205  -0.191  -0.215  -0.224  -0.217  -0.199  -0.205
            LINE COUNT =          839
```