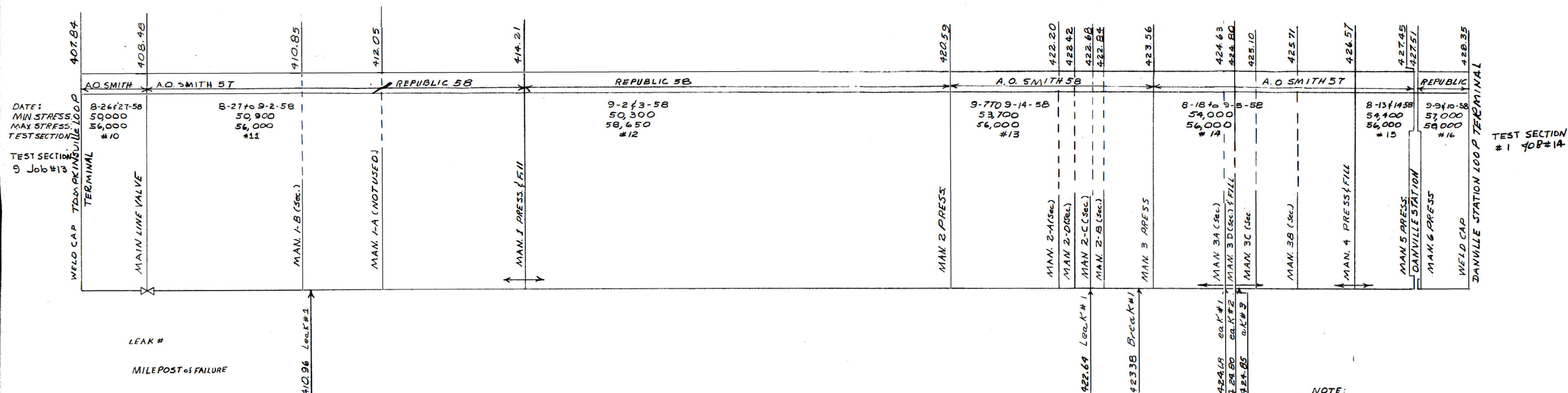


TEST SCHEMATIC - TEXAS EASTERN SCALE 1/2" = 1 Mile  
 DANVILLE GAPS (COMPLETION OF TOMPKINSVILLE & DANVILLE GAPS)



NOTE OF LEAK RATES PER LEAKS

T.S. # 11 - LEAK #1 - 70 GAL./Hr - MP 410.96

T.S. # 13 - LEAK #2 - 12 GAL./Hr - MP 422.64

T.S. # 14 - LEAK #1 18 GAL./Hr - MP 424.68 - 8-19-58

T.S. # 14 - LEAK #2 2 1/2 GAL./Hr - MP 424.80

T.S. # 14 - LEAK #3 4 GAL./Hr - MP 424.85

NOTE:

ALL LINE PIPE 30"x0.375" x 52 M. Y.

ALL FAILURES IN A.O. SMITH PIPE

PART OF THE PIPELINE LAID IN 1957 & PART IN 1958

10-15-58

## TEST PROCEDURE

For the purpose of this report, the testing operation will be considered as consisting of the following major items : 1 - Filling ; 11 - Pressuring. A brief description of each is given below.

### Filling the Line :

A fill unit as described under "Equipment" was moved into location near the water source, and a six-inch temporary line was laid from the main fill pump to a connection on the pipe line. This connection on the pipe line consisted of a six-inch riser, series 600 flange, and outlets for gauges and pressure unit welded into the riser. A temporary line was then laid from the main fill pump to the lo-head pump, which took suction from the stream and "fed" the main pump.

With the pumps hooked up in this manner the line could be filled at the rate of approximately 1000 to 1250 gpm depending upon the length of temporary line and pressure the section to a maximum pressure of about 500 psig.

All of the water pumped was filtered through a Thornhill-Craver Filter with 200 mesh screen, which was connected into the temporary line at the discharge side of the main fill pump.

### Pressuring the Line :

Pre-Test of Crossings: All road and railroad crossings were pre-tested to a higher pressure than the main line before installation into the pipe line to insure safety. This pretesting was conducted in the pipe yard of each job.

Test of Main Line Sections: The main line was divided into test sections according to wall thickness and elevation of the pipe line so that the maximum and minimum pressures would fall within certain limits set out by Texas Eastern. After a section of line was filled with water a mobil pressure unit was brought into location at a manifold by-pass or station, and by taking water from one section would pressure the other.

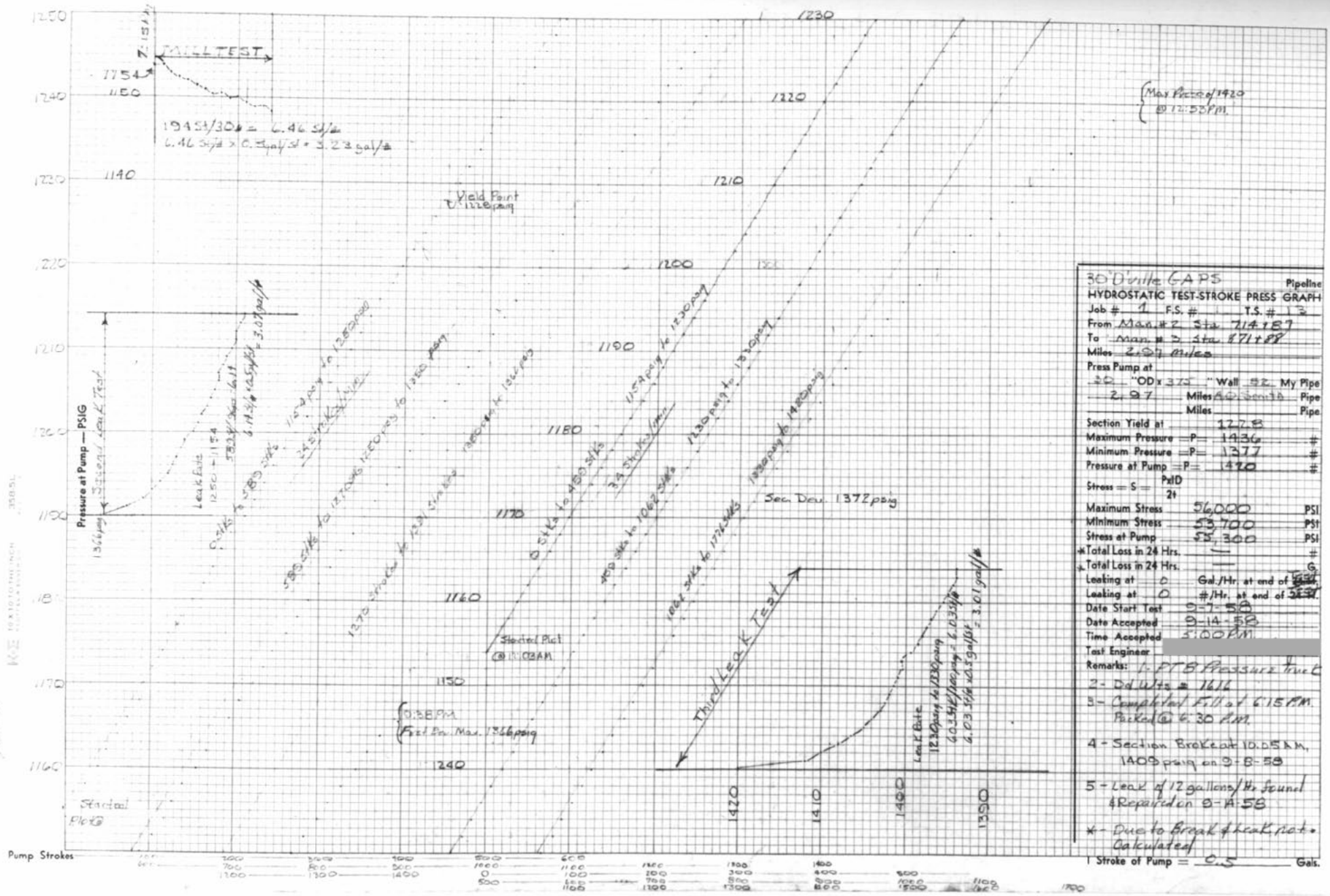
After the maximum pressure was reached the section was held for a twenty four period.

JOB NO. 1 TEST PRESSURE SUMMARY

<u>Test Section</u>	<u>Length</u>	<i>yield</i> <u>Maximum Pressure</u>	<u>Stress</u>		<u>Pipe Data</u>
			<u>Max.</u>	<u>Min.</u>	
10	1.04	1224	56,000 1426	50,000 1280	0.375 W.T. x X-52 A.O. Smith
11	5.74 <sup>1.88 R</sup> <sub>3.86 S</sub>	1220	56,000 1426	50,900 1296	0.375 W.T. x X-52 A.O. Smith and Republic
12	6.34	1294	58,800 1208	50,300 1290	0.375 W.T. x X-52 Republic
13	2.97	1244	56,000 1426	53,700 1377	0.375 W.T. x X-52 A.O. Smith
14	3.00	1234	56,000 1420	54,000 1282	0.375 W.T. x X-52 A.O. Smith
15	0.89	1240	56,000 1426	54,400 1296	0.375 W.T. x X-52 A.O. Smith
16	0.84	1280	58,000 1487	57,000 1467	0.375 W.T. x X-52 Republic

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30" Drive CAPS Pipeline	
HYDROSTATIC TEST-STROKE PRESS GRAPH	
Job # 1	F.S. # T.S. # 13
From Max # 2 Sta 714187	
To Max # 3 Sta 471488	
Miles 2.27 miles	
Press Pump at	
20" OD x 3/8" Wall 52 My Pipe	
2.97 Miles	Pipe
	Pipe
Section Yield at	1275
Maximum Pressure = P =	1436 #
Minimum Pressure = P =	1377 #
Pressure at Pump = P =	1420 #
Stress = S =	PxD
	2t
Maximum Stress	56000 PSI
Minimum Stress	53700 PSI
Stress at Pump	55300 PSI
Total Loss in 24 Hrs.	— #
Leaking at	0 Gal./Hr. at end of 24 Hrs.
Leaking at	0 #/Hr. at end of 24 Hrs.
Date Start Test	9-7-58
Date Accepted	9-14-58
Time Accepted	5:00 PM
Test Engineer	
Remarks: 1- FTB Pressure Truc	
2- Dd Wts = 1611	
3- Completed Fill at 6:15 AM. Packed @ 6:30 AM.	
4- Section Broke at 10:25 AM, 1409 psig on 9-B-58	
5- Leak of 12 gallons/hr found & repaired on 9-A-58	
* - Due to Break of heat, not calculated	
1 Stroke of Pump =	0.5 Gals.

JOB NO. 1

DATA - TEST SECTION NO. 13-4

From Manifold No. 2-B to Manifold No. 3

Total Length -- 0.72 miles

Type and size of pipe : 30" O.D. x 0.375 x X-52 A.O. Smith

WILLIAMS PRESSURE SERVICE CO.  
SHREVEPORT, LA.

FIELD PRESSURE & TEST REPORT

HYDROSTATIC TEST FOR Texas Eastern Transmission Corporation  
SECTION TESTED Test Section No. 13-1 (From manifold no. 2-B to manifold no. 3)  
TYPE & SIZE OF PIPE 30" O.D. x 0.375 W.T. x 1-52 A.O. Smith

UNITS USED: PRESSURE P.T. # 8 FILL P.T. # 1  
DATE TEST STARTED 9-14-58 TIME & DATE ENDED 5:00 p.m. 9-14-58  
ATMOS. TEMP. START \_\_\_\_\_ ATMOS. TEMP. END. \_\_\_\_\_  
PRESSURE (GAUGE RECORDER) START 1120 PSI END 1108 PSI  
PRESSURE LOSS (24 HOURS) See Yield Plot VOLUME H<sub>2</sub>O LOSS \_\_\_\_\_ GAL

DEAD WEIGHT RECORDED READINGS

TIME	PRESSURE	TIME	PRESSURE	TIME	PRESSURE
2:45 p.m.	1120	2:45 p.m.	1111		
2:50	1118	2:50	1111		
2:55	1117	3:00	1110.5		
3:00	1116	3:15	1109		
3:05	1115	3:30	1108		
3:10	1114	3:45	1108		
3:15	1113	4:00	1108		
3:20	1112.5		Section accepted		
3:25	1112.5				
3:30	1112				
3:35	1112				
3:40	1111.5				

REMARKS: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

INSPECTOR Dwight Patton  
WITNESS 1. W. Wilkerson  
2. H.L. Bayler

GAUGES & RECORDERS  
USED LAST TESTED PHMSA-DANVILLE006566

W.P.S. CO. PLD 19-FR02-Danville-NTSB006566