HYDRO TEST WORK SHEET

☐ FITTINGS ☐ COUPLING SAW DATE 11-26-84
☐ BORING MILL ☒ RANDOM SAW SHIFT 1st

Date of MFG.	Pipe No.	Furnish & Crew	Bursting Pressure	Position	Size & Class	Description	Good Pieces	Rejects	Total Pieces
					16"-150	Rand	5		
			Rework		16"-150	MFG/12	4		
					16"-150	MFG/14	2		
				B	16"-200	FM/12	10		
					16"-200	FM/14	32		
					8"-100	Rand	9		
			Rework		8"-100	MEG/12	14		
					8"-100	MEG/14	8		

PLAINTIFF'S EXHIBIT
CT-468

OPERATION: Random Saw

DAILY PRODUCTION

Time Started: 7:30-1230
Time Finished: ~~12:30-4:00~~

Size & Class	Description	Good Inventory Pieces	Index Standard Pieces/Hr.	Index Hours Earned	Reject Pieces	Total Pieces

Total Index Hours Earned: [ ]
Total Scheduled Hours: 6.00
Production Index: [ ]

Delay Time	Total	Cause of Delay
		Test Pipe E.1 B.4 2 trays 16"-200 FM Stock 13 sticks

CTD016511

Signed: R.C. Rodriguez Signed: _____ Approved: Johnny Slovak

HYDRO TEST WORK SHEET

☐ FITTINGS ☐ CC LING SAW DATE 11-26-84
☑ BORING MILL ☐ RANDOM SAW SHIFT 1st

Date of MFG.	Pipe No.	Furnish & Crew	Bursting Pressure	Position	Size & Class	Description	Good Pieces	Rejects	Total Pieces
					8" 150	C/S	338	5	343
					8" 100	C/S	143	18	161
					8" 200	C/S	1644	4	1648

OPERATION: Conv Series

DAILY PRODUCTION

Time Started: 7:30
Time Finished: 4:00

Size & Class	Description	Good Inventory Pieces	Index Standard Pieces/Hr.	Index Hours Earned	Reject Pieces	Total Pieces
8" 150	C/S	338	300	1.13	5	343
	Changeover To 8" 100 C/S			.50		
8" 100	C/S	143	300	.48	18	161
	Changeover To 8" 200 C/S			.50		
8" 200	C/S	1644	300	5.48	4	1648

Total Index Hours Earned: 8.09
Total Scheduled Hours: 7.75
Production Index: 1049

Delay Time	Total	Cause of Delay
	30	#1 Mill down tighten chain on main drive
	30	Change over
	30	Change over
	30	Change over
	30	Change over
	15	Sharpen tools
	15	Sharpen tools
	15	Clean up
	15	Clean up

CTD016512

Signed: C. B. Signed: R. B. Approved: Johnny Slovak

HYDRO TEST WORK SHEL

☐ FITTINGS ☐ CC LING SAW
☑ BORING MILL 4 ☐ RANDOM SAW

DATE 11-26-84
SHIFT

Date of MFG.	Pipe No.	Furnish & Crew	Bursting Pressure	Position	Size & Class	Description	Good Pieces	Rejects	Total Pieces
					16" 200	C/S	39		39
					16" 150	C/S	222	1	223

OPERATION: BM # 4

DAILY PRODUCTION

Time Started: 7:30
Time Finished: 4:00

Size & Class	Description	Good Inventory Pieces	Index Standard Pieces/Hr.	Index Hours Earned	Reject Pieces	Total Pieces
16" 200	C/S	39	56	.70		39
	Change over to 16" 150 C/S			1.00		
16" 150	C/S	222	56.	3.96	1	223

Total Index Hours Earned: 5.66
Total Scheduled Hours: 8.00
Production Index: 71 %

Delay Time	Total	Cause of Delay
	30	Change over from 16" 200 to 16" 150
	20	wait on hyster driver
	15	Clean up

CTD016513

Signed: Autry Coaster Signed: _____ Approved: Johnny Shrak

HYDRO TEST WORK SHEE

☐ FITTINGS ☒ CC .ING SAW
☐ BORING MILL ☐ RANDOM SAW

DATE 11-26-84
SHIFT 1st

Date of MFG.	Pipe No.	Furnish & Crew	Bursting Pressure	Position	Size & Class	Description	Good Pieces	Rejects	Total Pieces
					18" MHS	–	64		

OPERATION: Coupling Saw

DAILY PRODUCTION

Time Started: 12:30
Time Finished: 2:30

Size & Class	Description	Good Inventory Pieces	Index Standard Pieces/Hr.	Index Hours Earned	Reject Pieces	Total Pieces

Total Index Hours Earned:

Total Scheduled Hours: 2.00

Production Index:

Delay Time	Total	Cause of Delay
		4 sticks 18" Manhole Adpt.

CTD016514

Signed: R.C. Rodriguez Signed: _____ Approved: Johnny Slovak

HYDRO TEST WORK SHEET

☐ FITTINGS ☐ CC LING SAW DATE 11-26-89
☐ BORING MILL ☐ RANDOM SAW SHIFT 1st

Date of MFG.	Pipe No.	Furnish & Crew	Bursting Pressure	Position	Size & Class	Description	Good Pieces	Rejects	Total Pieces
					8"100	C/S	10	0	10
					5"200	C/S	93	3	96

OPERATION: Cut-Off

DAILY PRODUCTION

Time Started: 7:00
Time Finished: 3:42

Size & Class	Description	Good Inventory Pieces	Index Standard Pieces/Hr.	Index Hours Earned	Reject Pieces	Total Pieces

Total Index Hours Earned: [ ]
Total Scheduled Hours: 8.00
Production Index: [ ]

Delay Time	Total	Cause of Delay
1:05	1:05	Boring mill

CTD016515

Signed: L. Hill Signed: _____ Approved: Johnny Slovak

HYDRO TEST WORK SHEE

☐ FITTINGS ☐ CO .ING SAW
☐ BORING MILL ☐ RANDOM SAW

DATE 11-26-84
SHIFT 1-2

Date of MFG.	Pipe No.	Furnish & Crew	Bursting Pressure	Position	Size & Class	Description	Good Pieces	Rejects	Total Pieces
					8" 150	¼ Fm	84	5	89

OPERATION: ¼ Fm Line

DAILY PRODUCTION

Time Started: 11:15
Time Finished: 4:00

Size & Class	Description	Good Inventory Pieces	Index Standard Pieces/Hr.	Index Hours Earned	Reject Pieces	Total Pieces
8" 150	Changeover; To 8" 150. Change gears on Lathe Main.			1.50		
				.30		
	¼ FM-	84	38	2.21	5	89

Total Index Hours Earned: 4.01

Total Scheduled Hours: 4.25

Production Index: 94 %

Delay Time	Total	Cause of Delay
11:15 1:00		Set up 8" 150 ¼ Fm

CTD016516

Signed: Lois Rodgers Signed: B Stovall Approved: Johnny Slovak

HYDRO TEST WORK SHEET

☐ FITTINGS ☐ CC _ING SAW DATE 11-26-84
☐ BORING MILL ☐ RANDOM SAW SHIFT 1A

Date of MFG.	Pipe No.	Furnish & Crew	Bursting Pressure	Position	Size & Class	Description	Good Pieces	Rejects	Total Pieces
					10" 150	13' P/B	13	1	14
11-15-84	H08	AK12D-2C	350	F	8" 100	13' P/B o/e	780	48	828
"	H00	" - "	"	"	"				
"	HH9	" - "	300	"	"				
"	396	" - "	"	"	"				
"	353	" - "	"	"	"				
"	455	" - "	350	"	"				
"	45	" - 3A	"	"	"				
"	35	" - "	"	"	"				
"	86	" - "	"	"	"				
"	76	" - "	300	"	"				
"	551	" - 2C	"	"	"				
"	536	" - "	"	"	"				

OPERATION: #1

DAILY PRODUCTION

Time Started: 7:30
Time Finished: 4:00

Size & Class	Description	Good Inventory Pieces	Index Standard Pieces/Hr.	Index Hours Earned	Reject Pieces	Total Pieces
10"- 150	13' P/B SVT-UP	13 ✓	120	.11 .75	1	14
8"- 100	13' P/B OR	620 ✓	141	4.40	48	668
8"- 100	13' P/B OR- 2 LAYER	160 ✓	—	—	0	160

Total Index Hours Earned: 5.26 (10.65)
Total Scheduled Hours: 5.25 (11.50)
(.75) Production Index: 100 (93%)

Delay Time	Total	Cause of Delay
7:40 - 8:05	25	change ties (-) 8" 100 - 13'
8:05 - 8:15	10	carts not set up
8:15 - 8:30	15	welding on hydro table (M)
9:00 - 9:35	35	working on sander (M)
2:00 - 3:45	—	Two layers Bundles
3:45 - 4:00	15	clean up

CTD016517

Signed: Jean Sonnenberg Signed: _____ Approved: _____

#2

HYDRO TEST WORK SHEE

☐ FITTINGS ☐ CC .ING SAW
☐ BORING MILL ☐ RANDOM SAW

DATE 11-26-84
SHIFT 2B

Date of MFG.	Pipe No.	Furnish & Crew	Bursting Pressure	Position	Size & Class	Description	Good Pieces	Rejects	Total Pieces
11-15-84	173	AK120-2C	350	F	8" 100	10' P/B00			
11-14-84	?	AK120-3A	350	F	"	"			
"	61	" "	"	"	"				
"	66	" "	"	"	"				
11-15-84	?	" "	"	"	"				
"	205	" "	"	"	"				
"	?	" "	"	"	"				
"	177	" "	"	"	"				
"	55	" -1B	"	"	"				
"	21	" "	"	D	"				
"	19	" "	260	C	"				
11-14-84	429	" -3A	350	D	"				

OPERATION: #1 Line

DAILY PRODUCTION

Time Started: 4:00
Time Finished: 12:30

Size & Class	Description	Good Inventory Pieces	Index Standard Pieces/Hr.	Index Hours Earned	Reject Pieces	Total Pieces

Total Index Hours Earned ☐ Total Scheduled Hours ☐ Production Index ☐

Delay Time	Total	Cause of Delay

CTD016518

Signed: Ronald Ines Signed: _____ Approved: [signature]

HYDRO TEST WORK SHEE.

☐ FITTINGS ☐ CC .ING SAW
☐ BORING MILL ☐ RANDOM SAW

DATE 11-26-84
SHIFT 2B

Date of MFG.	Pipe No.	Furnish & Crew	Bursting Pressure	Position	Size & Class	Description	Good Pieces	Rejects	Total Pieces
11-15-84	102	AK120-2C	350	F	8" 100	13' P/B OR	760	55	815
11-14-84	317	" -3A	350	FC	"				
"	299	" "	"	F	"				
"	291	" "	"	F	"				
"	277	" "	330	C	"				
"	262	" "	350	F	"				
11-15-84	448	" -1B	350	F	"				
"	445	" "	350	F	"				
"	437	" "	350	F	"				
"	382	" "	"	F	"				
"	348	" "	"	"	"				
11-14-84	359	" -3A	"	CF	"				
" "	348	" "	"	DC	"				
11-15-84	228	" -2C	"	F	"				
"	211	" "	"	"	"				

OPERATION: #1 Line

DAILY PRODUCTION

Time Started: 4:00
Time Finished: 12:30

Size & Class	Description	Good Inventory Pieces	Index Standard Pieces/Hr.	Index Hours Earned	Reject Pieces	Total Pieces
8" 100	13' P/B OR	760	141	5.39		

Total Index Hours Earned:

Total Scheduled Hours: 6.25

Production Index: 86%

Delay Time	Total	Cause of Delay
4:55-5:15	30 min	PRESSURE NOT COMING UP AND TESTING CHANGE CHECK VALVE BELLED 4" CLASS 100 PIPE
[redacted]	[redacted]	

CTD016519

Signed: Ronald Imer Signed: Approved: [signature]

HYDRO TEST WORK SHEE

☐ FITTINGS ☐ CO .ING SAW
☐ BORING MILL ☐ RANDOM SAW

DATE 11-26-84
SHIFT 1st

Date of MFG.	Pipe No.	Furnish & Crew	Bursting Pressure	Position	Size & Class	Description	Good Pieces	Rejects	Total Pieces	
					16" C50	FITTING	10	5	15	WIP
					12" 150/200	PAD-3	26	0	26	F G

DAILY PRODUCTION

OPERATION: Large FTG + PAD Lathe

Time Started: 7:35
Time Finished: 4:00

Size & Class	Description	Good Inventory Pieces	Index Standard Pieces/Hr.	Index Hours Earned	Reject Pieces	Total Pieces

Total Index Hours Earned: [ ]
Total Scheduled Hours: 8.00
Production Index: [ ]

Delay Time	Total	Cause of Delay
3:40 4:00	20 min	cleanup

CTD016520

Signed: [signature] Signed: _____ Approved: [signature]

HYDRO TEST WORK SHEE

☐ FITTINGS ☐ CC _ING SAW DATE
☐ BORING MILL ☐ RANDOM SAW SHIFT

Date of MFG.	Pipe No.	Furnish & Crew	Bursting Pressure	Position	Size & Class	Description	Good Pieces	Rejects	Total Pieces
							20	1	21

OPERATION: _____

DAILY PRODUCTION

Time Started: _____
Time Finished: _____

Size & Class	Description	Good Inventory Pieces	Index Standard Pieces/Hr.	Index Hours Earned	Reject Pieces	Total Pieces

Total Index Hours Earned _____ Total Scheduled Hours _____ Production Index _____

Delay Time	Total	Cause of Delay

CTD016521

Signed: _____ Signed: _____ Approved: Johnny Slovak

HYDRO TEST WORK SHEET

☐ FITTINGS ☐ COUPLING SAW DATE 11/26/80
☐ BORING MILL ☐ RANDOM SAW SHIFT

Date of MFG.	Pipe No.	Furnish & Crew	Bursting Pressure	Position	Size & Class	Description	Good Pieces	Rejects	Total Pieces
					16" 150	C/S	20	0	20
							15	0	15
							20	0	20
							20	-	20
							20	-	20
							20	-	20
							20	1	21
							20	-	20
							20	-	20
							20	-	20
							20	1	21
							20	-	20
							20	-	20
							20	1	21
							20	0	20

OPERATION: Hydro Test

DAILY PRODUCTION

Time Started: 7:00
Time Finished: 11:00

Size & Class	Description	Good Inventory Pieces	Index Standard Pieces/Hr.	Index Hours Earned	Reject Pieces	Total Pieces
16" 150	C/S	315	160	1.97	5	320

Total Index Hours Earned: 1.97
Total Scheduled Hours: 3.75
Production Index: 53%

Delay Time	Total	Cause of Delay

CTD016522

Signed: _____ Signed: Foreman Approved: Johnny Stovall

HYDRO TEST WORK SHEE

☐ FITTINGS ☐ CO ING SAW
☐ BORING MILL ☐ RANDOM SAW

DATE 11/26/84
SHIFT

Date of MFG.	Pipe No.	Furnish & Crew	Bursting Pressure	Position	Size & Class	Description	Good Pieces	Rejects	Total Pieces
					4" / 100	C/S	299	1	300
					8" / 150	C/S	100	7	107
							100	0	100
							100	0	100
							100	0	100
							100	0	100
							100	0	100
							100	0	100
							100	0	100
							100	0	100
							100	0	100
							100	0	100
							100	0	100

OPERATION: Sm Cpl Testg

DAILY PRODUCTION

Time Started: 7:30
Time Finished: 4:30

Size & Class	Description	Good Inventory Pieces	Index Standard Pieces/Hr.	Index Hours Earned	Reject Pieces	Total Pieces
4" / 100	Change over to 4" 100 C/S OR	299	300	.50 1.00	1	300
8" / 150	Change over to 8" 150 C/S	1100	270	.50 4.00	7	1107

Total Index Hours Earned: 6.00

Total Scheduled Hours: 6.75 (1.25)

Production Index: 89%

Delay Time	Total	Cause of Delay
7:30 - 8:40 - 10:10 to 10:40		Electrical Problems - Maint.
30 min	30 min	Change Over 4" / 100 to 8" / 150
30	30 MIN	Changeover to 8" 150 C/S

CTD016523

Signed: Willie Bradley Signed: _____ Approved: Johnny Slovak

02-22-0003 3/75 (P-971)

FINISHING LINE PRODUCTION REPORT

PIPE TESTER LINE NUMBER #1 | SHIFT 2B | DATE 11-26-82

FULL LENGTHS, ½'s OR ¼'s 760

☐ P/B ☐ P/E		☐ P/B ☐ P/E		☐ P/B ☐ P/E		☐ P/B ☐ P/E		RANDOM LENGTHS					
TIME TO STOCK	SIZE & CLASS NO. OF PCS.	TIME TO STOCK	SIZE & CLASS NO. OF PCS.	TIME TO STOCK	SIZE & CLASS NO. OF PCS.	TIME TO STOCK	SIZE & CLASS NO. OF PCS.	LENGTH	TIME TO STOCK	SIZE & CLASS NO. OF PCS.	TIME TO STOCK	SIZE & CLASS NO. OF PCS.
	8" 100 O/R 13'		8" 100 O/R 13'		8" 100 O/R 13'							
405	4	650	12	935	12							
410	12	655	12	940	12							
415	12	700	12	945	12							
420	12	705	12	950	12							
425	12	710	12	955	12							
430	12	715	12	1000	12							
440	12	720	12	1005	12							
445	12	725	12	1010	12							
500	12	730	12	1015	12							
505	12	735	12	1019	12							
530	12	740	12	1023	12							
535	12	745	12	1027	12							
540	12	750	12	1030	12							
545	12	800	12	1150	12							
550	12	835	12	1155	12							
555	12	840	12	1200	12							
615	12	850	12	1204	12							
620	12	855	12	1208	12							
630	12	910	12	1212	12							
635	12	915	12	1216	12							
640	12	920	12									
645	12	930	12									
TOTAL PIECES					*760							
PCS. CONV. TO FEET					9880							

DT. 4:00 – 10:30 & 11-~~27~~ 12:30

DELAY TIME DETAIL

CAUSE OF DELAY	MINUTES	CODE
QC PIPE 1		
SCRAP COUP ~~HH~~ 1		

CTD016524

TOTAL TIME	NET TIME	TOTAL DELAY MINUTES →	

PREPARED BY Mike Ulenk

APPROVED BY J. Stoltz

OC-22-0003 3/75 (P-971)

FINISHING LINE PRODUCTION REPORT

PIPE TESTER LINE NUMBER #1 (160)

SHIFT 1A

DATE 11-26-84

FULL LENGTHS, ½'s OR ¼'s

☒ P/B ☐ P/E

TIME TO STOCK	SIZE & CLASS	NO. OF PCS.
2:16	8" 100 OIR	8
2:20		8
2:23		8
2:27		8
2:30		8
2:34		8
2:38		8
2:41		8
2:45		8
2:49		8
2:52		8
2:56		8
3:00		8
3:04		8
3:08		8
3:12		8
3:15		8
3:18		8
3:22		8
3:27		8
TOTAL PIECES		* 160
PCS. CONV. TO FEET		2080

☐ P/B ☐ P/E — TIME TO STOCK / SIZE & CLASS / NO. OF PCS.

☐ P/B ☐ P/E — TIME TO STOCK / SIZE & CLASS / NO. OF PCS.

☐ P/B ☐ P/E — TIME TO STOCK / SIZE & CLASS / NO. OF PCS.

RANDOM LENGTHS

LENGTH	TIME TO STOCK	☐ P/B ☐ P/E SIZE & CLASS / NO. OF PCS.	TIME TO STOCK	☐ P/B ☐ P/E SIZE & CLASS / NO. OF PCS.

DELAY TIME DETAIL

CAUSE OF DELAY	MINUTES	CODE

TOTAL TIME | NET TIME | TOTAL DELAY MINUTES

PREPARED BY L. Brooks

APPROVED BY Lins

CTD016525

C2-22-0003 3/75 (P-971)

FINISHING LINE PRODUCTION REPORT

PIPE TESTER LINE NUMBER 1/4 Fm Line | SHIFT 1A | DATE 11-26-84

84 FULL LENGTHS. 1½'s OR ¼'s | RANDOM LENGTHS

☐ P/B ☒ P/E	☐ P/B ☐ P/E	☐ P/B ☐ P/E	☐ P/B ☐ P/E	LENGTH	TIME TO STOCK	☐ P/B ☐ P/E	TIME TO STOCK	☐ P/B ☐ P/E
TIME TO STOCK / SIZE & CLASS: 1/4 Fm 8" 150 / NO. OF PCS.	TIME TO STOCK / SIZE & CLASS / NO. OF PCS.	TIME TO STOCK / SIZE & CLASS / NO. OF PCS.	TIME TO STOCK / SIZE & CLASS / NO. OF PCS.			SIZE & CLASS / NO. OF PCS.		SIZE & CLASS / NO. OF PCS.
NHD 12								
2:00 12								
2:30 12								
2:50 12								
3:05 12								
3:30 12								
3:50 12								
TOTAL PIECES 84								
PCS. CONV. TO FEET 273								

PT 11:15 4:00

DELAY TIME DETAIL

CAUSE OF DELAY	MINUTES	CODE
8" 150 STOCK 22 1/4		

TOTAL TIME | NET TIME | TOTAL DELAY MINUTES → | ☒

PREPARED BY Albert J Bonnah

APPROVED BY Johnny Slovak

CTD016526

02-22-0003 3/75 (P-971)

FINISHING LINE PRODUCTION REPORT

PIPE TESTER LINE NUMBER #1 | SHIFT 1A | DATE 11-26-84

FULL LENGTHS ½'s OR ¼'s (13) (620) | RANDOM LENGTHS

☑ P/B ☐ P/E		☑ P/B ☐ P/E		☑ P/B ☐ P/E		☑ P/B ☐ P/E				☐ P/B ☐ P/E		☐ P/B ☐ P/E	
TIME TO STOCK	SIZE & CLASS 10"150 NO. OF PCS.	TIME TO STOCK	SIZE & CLASS 8"100 OR NO. OF PCS.	TIME TO STOCK	SIZE & CLASS 8"100 OR NO. OF PCS.	TIME TO STOCK	SIZE & CLASS 8"100 OR NO. OF PCS.	LENGTH	TIME TO STOCK	SIZE & CLASS NO. OF PCS.	TIME TO STOCK	SIZE & CLASS NO. OF PCS.
7:38	6	8:40	12	11:24	12	1:43	12						
7:44	6	8:45	12	11:26	12	1:48	12						
7:45	1	8:50	12	11:31	12	1:53	12						
		9:08	12	11:37	12	1:58	12						
		9:25	12	11:42	12	3:33	12						
		9:37	12	11:47	12	3:38	12						
		9:48	12	11:52	12	3:43	12						
		9:53	12	11:57	12	3:48	8						
		9:58	12	12:34	12								
		10:15	12	12:39	12								
		10:19	12	12:42	12								
		10:24	12	12:47	12								
		10:29	12	12:52	12								
		10:34	12	12:56	12								
		10:38	12	1:02	12								
		10:42	12	1:08	12								
		10:47	12	1:14	12								
		10:54	12	1:19	12								
		10:59	12	1:24	12								
		11:06	12	1:28	12								
		11:12	12	1:32	12								
		11:17	12	1:37	12								
TOTAL PIECES	13						*620						
PCS. CONV. TO FEET	169						8060						

DELAY TIME DETAIL

CAUSE OF DELAY	MINUTES	CODE
QC TEST 8-100 - HH.1		
SCRAP cpls 8-100 - HH.HH		
TOTAL TIME / NET TIME / TOTAL DELAY MINUTES →		

PREPARED BY B Brooks

APPROVED BY Lisp

CTD016527

HYDRO TEST WORK SHEL

☐ FITTINGS ☐ CC LING SAW DATE 11-22-84
☐ BORING MILL ☐ RANDOM SAW SHIFT 1ST

Date of MFG.	Pipe No.	Furnish & Crew	Bursting Pressure	Position	Size & Class	Description	Good Pieces	Rejects	Total Pieces
					12" 150	MED			
						13'	3	0	3
						12'6"	8	1	9
						6 1/2"	1	0	1
						1/4	6	0	6

OPERATION: B-Plant Cutter

DAILY PRODUCTION

Time Started: 10:00
Time Finished: 4:00

Size & Class	Description	Good Inventory Pieces	Index Standard Pieces/Hr.	Index Hours Earned	Reject Pieces	Total Pieces
12" 150	13' P.B	612	150	6.12	15	627

Total Index Hours Earned: 6.12
Total Scheduled Hours: 8.00
Production Index: 76.50

Delay Time	Total	Cause of Delay
	.15	Clean up

CTD016528

Signed: K Logan Signed: _____ Approved: _____

HYDRO TEST WORK SHEE

☐ FITTINGS ☐ CC .ING SAW DATE 11-27-84
☐ BORING MILL ☒ RANDOM SAW SHIFT 1st

Date of MFG.	Pipe No.	Furnish & Crew	Bursting Pressure	Position	Size & Class	Description	Good Pieces	Rejects	Total Pieces
					8"-100	Rand	61		
			Rework		8"-100	MEO 1/2	68		
					8"-100	MECH	38		
			Rework		12"-150	MEO 1/2	1		
					12"-150	MEO 1/4	1		
			12"—		8"-150	FM 1/2	56		
			12"—		8"-200	FM 1/2	52		

OPERATION: Random Saw

DAILY PRODUCTION

Time Started: 7:30
Time Finished: 4:00

Size & Class	Description	Good Inventory Pieces	Index Standard Pieces/Hr.	Index Hours Earned	Reject Pieces	Total Pieces

Total Index Hours Earned: ____ Total Scheduled Hours: ____ Production Index: ____

Delay Time	Total	Cause of Delay
		Testpipe R. 1 R. 10 8"-150 1 tray FM Stock 28 sticks 8"-200 1 tray 26 sticks

CTD016529

Signed: RC Rodriguez Signed: ____ Approved: [illegible]

HYDRO TEST WORK SHEE

☐ FITTINGS ☐ CC .ING SAW DATE 11-27-84
☑ BORING MILL ☐ RANDOM SAW SHIFT 1st

Date of MFG.	Pipe No.	Furnish & Crew	Bursting Pressure	Position	Size & Class	Description	Good Pieces	Rejects	Total Pieces
					8" 200	CLS	994	4	998
					8" 150	CLS	318	79	397

OPERATION: B.M. # 3 - N.M.

DAILY PRODUCTION

Time Started: 7:30 1:00
Time Finished: 10:30 3:30

Size & Class	Description	Good Inventory Pieces	Index Standard Pieces/Hr.	Index Hours Earned	Reject Pieces	Total Pieces
8"200	CK Changeover To 6"150	994	300	3.31 .150	4	998
8"150	CK	318	300	1.06	79	397

Total Index Hours Earned: 4.87

Total Scheduled Hours: 6.00

Production Index: 81%

Delay Time	Total	Cause of Delay
	30	Clean out chucks N.M.
	30	Change over
	30	Change over
	15	Sharpen tools
	15	Sharpen tools
	10	Sharpen tools
	30	Clean up Greenstock
	30	Clean up
		Work on hyd tests 2 Hrs

CTD016530

Signed: C.B Signed: K.B Approved: Johnny Slovak

HYDRO TEST WORK SHEE

☐ FITTINGS ☐ CC .ING SAW
☒ BORING MILL ☐ RANDOM SAW

DATE 11-27-84
SHIFT 1st

Date of MFG.	Pipe No.	Furnish & Crew	Bursting Pressure	Position	Size & Class	Description	Good Pieces	Rejects	Total Pieces
					16"150	C/S	306	2	308

OPERATION: BM # 4

DAILY PRODUCTION

Time Started: 730
Time Finished: 400

Size & Class	Description	Good Inventory Pieces	Index Standard Pieces/Hr.	Index Hours Earned	Reject Pieces	Total Pieces
16"150	C/S	306	56	5.46	2	308

Total Index Hours Earned: 5.46

Total Scheduled Hours: 8.00

Production Index: 68.3

Delay Time	Total	Cause of Delay
	25	Sharpen tools
	15	Clean up

CTD016531

Signed: Cindy Courtney Signed: _____ Approved: Johnny Novak

HYDRO TEST WORK SHEET

☐ FITTINGS ☐ COUP' 'NG SAW
☐ BORING MILL ☐ RAN. .M SAW

DATE 11-27-84
SHIFT 1st

Date of MFG.	Pipe No.	Furnish & Crew	Bursting Pressure	Position	Size & Class	Description	Good Pieces	Rejects	Total Pieces
					8" 200	C/S	36	0	36
					8" 150	C/S	34	2	36

OPERATION: Cut-off

DAILY PRODUCTION

Time Started: 730 - ~~[illegible]~~ -12:30
Time Finished: 990 330

Size & Class	Description	Good Inventory Pieces	Index Standard Pieces/Hr.	Index Hours Earned	Reject Pieces	Total Pieces

Total Index Hours Earned:

Total Scheduled Hours: 6.00

Production Index:

Delay Time	Total	Cause of Delay
135	135	Boring mill
	30 Min	Cleanup
		Work on Cpl tester 2 Hrs

CTD016532

Signed: L. Hill Signed: Approved: Johnny Slovak

HYDRO TEST WORK SHEET

☐ FITTINGS ☐ COU. ING SAW DATE 11-27-84
☐ BORING MILL ☐ RANDOM SAW SHIFT 1 ~~2nd~~

Date of MFG.	Pipe No.	Furnish & Crew	Bursting Pressure	Position	Size & Class	Description	Good Pieces	Rejects	Total Pieces
					8"150	Y4FM	300	24	324

OPERATION: Y4 FM Line

DAILY PRODUCTION

Time Started: 7:30
Time Finished: 4:00

Size & Class	Description	Good Inventory Pieces	Index Standard Pieces/Hr.	Index Hours Earned	Reject Pieces	Total Pieces
8"150	Y4 FM	300 ✓	38	7.89	24	324

Total Index Hours Earned	Total Scheduled Hours	Production Index
7.89	7.75	102%

Delay Time	Total	Cause of Delay
3:30-3:45	15	Replace air hose in cradle

CTD016533

Signed: Simon Rod Signed: B Stanett Approved: Johnny Slovak

HYDRO TEST WORK SHEET

☐ FITTINGS ☐ COL NG SAW
☐ BORING MILL ☐ RANDOM SAW

DATE 11-27-84
SHIFT 1A

Date of MFG.	Pipe No.	Furnish & Crew	Bursting Pressure	Position	Size & Class	Description	Good Pieces	Rejects	Total Pieces
11-14-84	159	AK126-1B	525	D	10" 150	13' P/B	264	8	272

OPERATION: #1

DAILY PRODUCTION

Time Started: 11:50
Time Finished: 4:00

Size & Class	Description	Good Inventory Pieces	Index Standard Pieces/Hr.	Index Hours Earned	Reject Pieces	Total Pieces

Total Index Hours Earned: ____ Total Scheduled Hours: ____ Production Index: ____

Delay Time	Total	Cause of Delay
12:30 - 1:00	30	change line (1) 10" 150 - 13'
1:00 - 1:15	15	[illegible] not set up
3:45 - 4:00	15	clean up

CTD016534

Signed: [illegible] Signed: ____ Approved: [illegible]

HYDRO TEST WORK SHEET

☐ FITTINGS ☐ COUPLING SAW DATE 11-27-84
☐ BORING MILL ☐ RANDOM SAW SHIFT 1A

Date of MFG.	Pipe No.	Furnish & Crew	Bursting Pressure	Position	Size & Class	Description	Good Pieces	Rejects	Total Pieces
11-12-84	55	AK120-1B	300	D	8"-100	13' P/B 0R	143	45	188
"	46	" "	"	"	"				
"	80	" "	350	"	"				
11-15-84	159	" "	"	"	"				
"	143	" "	300	"	"				
"	109	" "	"	D	"				
					8"100 Random	P/B 0R	61	22	83
					8"100	1/2 mco P/E	70	11	81

DAILY PRODUCTION

OPERATION: #1

Time Started: 7:30
Time Finished: 11:50

Size & Class	Description	Good Inventory Pieces	Index Standard Pieces/Hr.	Index Hours Earned	Reject Pieces	Total Pieces
8"-100	13' P/B 0R	143 ✓	141	1.01	45	188
8"-100	12' P/B 0R	61 ✓	141	.43	22	83
8"-100	1/2 mco S&T-up	70 ✓	141	.25 .50	11	81
10"-150	13' P/B S&T-up	264 ✓	120	.75 2.20	8	272

Total Index Hours Earned: 5,14

Total Scheduled Hours: 7.00 (.25) Production Index: 73 %

Delay Time	Total	Cause of Delay
7:40 - 7:50	10	working on conveyor - (M)
8:30 - 8:40	10	change Pressure valve out on flat (M)
9:15 - 9:20	5	Load 200 12' randoms
10:10 - 10:20	10	Load more wall on Dyster
10:40 - 10:55	15	change Die (1) Rod 1/2 - MCO
11:05 - 11:20	15	check trouble

CTD016535

Signed: Leo Sommerberg Signed: _____ Approved: Lusi

HYDRO TEST WORK SHEET

☐ FITTINGS ☐ COUPLING SAW DATE 11-27-84
☐ BORING MILL ☐ RANDOM SAW SHIFT 2nd

Date of MFG.	Pipe No.	Furnish & Crew	Bursting Pressure	Position	Size & Class	Description	Good Pieces	Rejects	Total Pieces
					16" 150	13' P/B	303	4	307
					16" 150	RANDOMS	13	5	18
					~~16" 150~~	~~16" 150~~			

OPERATION: #3 LINE

DAILY PRODUCTION

Time Started: 4:00
Time Finished: 12:30

Size & Class	Description	Good Inventory Pieces	Index Standard Pieces/Hr.	Index Hours Earned	Reject Pieces	Total Pieces
16" 150	13' P/B	303 ✓	50	6.06	4	307
16" 150	12' RAND	13 ✓	50	.26	5	18
	SET. UP ½ MED			.25		

Total Index Hours Earned: 6.57
Total Scheduled Hours: 8.00
Production Index: 82%

Delay Time	Total	Cause of Delay

CTD016536

"B" Pipe
"A" Finish Line

Signed: Ronald Jones Signed: _____ Approved: _____

HYDRO TEST WORK SHEET

☐ FITTINGS ☐ COUPLING SAW DATE 11-27-84
☐ BORING MILL ☐ RANDOM SAW SHIFT LD

Date of MFG.	Pipe No.	Furnish & Crew	Bursting Pressure	Position	Size & Class	Description	Good Pieces	Rejects	Total Pieces
					12"150	13'PLB	433	11	444

OPERATION: 1st

DAILY PRODUCTION

Time Started: 2:30
Time Finished: 4:00

Size & Class	Description	Good Inventory Pieces	Index Standard Pieces/Hr.	Index Hours Earned	Reject Pieces	Total Pieces

Total Index Hours Earned ____ Total Scheduled Hours ____ Production Index ____

Delay Time	Total	Cause of Delay
		3" Pipe 3" Finish Line

Signed: R. C. Signed: R. C. Approved: J

CTD016537

(A) PIPE -(B) FIN. LINE)

HYDRO TEST WORK SHEE

☐ FITTINGS ☐ CO ING SAW
☐ BORING MILL ☐ RANDOM SAW

DATE 11-27-84
SHIFT 1D

Date of MFG.	Pipe No.	Furnish & Crew	Bursting Pressure	Position	Size & Class	Description	Good Pieces	Rejects	Total Pieces
					12"150	PIP-13'	179	4	183

OPERATION: MF

DAILY PRODUCTION

Time Started: 7:30
Time Finished: ~~4:00~~ 9:51

Size & Class	Description	Good Inventory Pieces	Index Standard Pieces/Hr.	Index Hours Earned	Reject Pieces	Total Pieces

Total Index Hours Earned: ____ Total Scheduled Hours: ____ Production Index: ____

Delay Time	Total	Cause of Delay

Signed: R.L Signed: R.C Approved: ____

CTD016538

HYDRO TEST WORK SHEET

☐ FITTINGS ☐ COL ING SAW
☐ BORING MILL ☐ RANDOM SAW

DATE 11-27-84
SHIFT 1ST

Date of MFG.	Pipe No.	Furnish & Crew	Bursting Pressure	Position	Size & Class	Description	Good Pieces	Rejects	Total Pieces
					8" 150	CS	125	1	126
						CS	125	3	128
							125	5	130
							125	6	131
							125	1	126
							125	3	128
							750	19	769

OPERATION: Small Company Tester

DAILY PRODUCTION

Time Started: 730 TO 900 AM
Time Finished: 200 TO 400 PM

Size & Class	Description	Good Inventory Pieces	Index Standard Pieces/Hr.	Index Hours Earned	Reject Pieces	Total Pieces
8" 150	CS	750	275	2.73	19	769

Total Index Hours Earned: 2.73
Total Scheduled Hours: 4.50
Production Index: 61%

Delay Time	Total	Cause of Delay
830 TO 900	30 min	~~[illegible]~~ MAINTANCE CONVAIR QUIT GEAR BOX WENT OUT
1245 TO 215	130 min	MAINTANCE CHANGE GEAR BOX
	15 Min	Maint Clean out Regulator valve

CTD016539

Signed: W. Chase Signed: W B Approved: Johnny Slovak

HYDRO TEST WORK SHEET

☐ FITTINGS ☐ COUPLING SAW
☐ BORING MILL ☐ RANDOM SAW

DATE 11-27-84
SHIFT 1ST

Date of MFG.	Pipe No.	Furnish & Crew	Bursting Pressure	Position	Size & Class	Description	Good Pieces	Rejects	Total Pieces
					16" 200	CS	20	0	20
							20	0	20
							20	0	20
							20	0	20
							20	0	20
							180	2	180
					16" 200	CS	18	0	18
							198	2	200

OPERATION: Lays Coupling Tester

DAILY PRODUCTION

Time Started: 900 AM
Time Finished: 1245 PM

Size & Class	Description	Good Inventory Pieces	Index Standard Pieces/Hr.	Index Hours Earned	Reject Pieces	Total Pieces

Total Index Hours Earned ☐ Total Scheduled Hours ☐ Production Index ☐

Delay Time	Total	Cause of Delay

CTD016540

Signed: [signature] Signed: [signature] Approved: Johnny Slovak

HYDRO TEST WORK SHEET

☐ FITTINGS ☐ COUPLING SAW
☐ BORING MILL ☐ RANDOM SAW

DATE 11-27-84
SHIFT 1st

Date of MFG.	Pipe No.	Furnish & Crew	Bursting Pressure	Position	Size & Class	Description	Good Pieces	Rejects	Total Pieces
					16"150	CS	24	0	24
							24	0	25
							24	0	24
							24	0	24
							24	0	24
							24	0	24
							24	0	24
							24	0	24
							24	0	24
							24	0	24
							240	1	241
					16"200	CS	20	1	21
							20	0	20
							20	0	20
							20	0	20

OPERATION: Large Coupling Inter

DAILY PRODUCTION

Time Started: 900 AM
Time Finished: 1245 PM

Size & Class	Description	Good Inventory Pieces	Index Standard Pieces/Hr.	Index Hours Earned	Reject Pieces	Total Pieces
16"150	CS CHANGE OVER 16"200	240	160	1.50 .50	1	241
16"200	CS	198	160	1.24	2	200

Total Index Hours Earned: 3.24
Total Scheduled Hours: 3.25
Production Index: 100%

Delay Time	Total	Cause of Delay

CTD016541

Signed: W L Chaver Signed: WB Approved: Johnny Slovak

HYDRO TEST WORK SHEET

☐ FITTINGS ☐ COU NG SAW DATE 11-27-84
☐ BORING MILL ☐ RANDOM SAW SHIFT 1st

Date of MFG.	Pipe No.	Furnish & Crew	Bursting Pressure	Position	Size & Class	Description	Good Pieces	Rejects	Total Pieces
					16" 200	4FM	22	3	25 WIP
					12" 150/200	PAD-3	20	0	20 FG

DAILY PRODUCTION

OPERATION: Large FM & PAD lathe

Time Started: 7:30

Time Finished: 4:00

Size & Class	Description	Good Inventory Pieces	Index Standard Pieces/Hr.	Index Hours Earned	Reject Pieces	Total Pieces

Total Index Hours Earned: [ ]

Total Scheduled Hours: 8.00

Production Index: [ ]

Delay Time	Total	Cause of Delay
3:40-4:00	20 min	cleanup

CTD016542

Signed: Foster Signed: _____ Approved: Johnny Slovak

HYDRO TEST WORK SHEET

☑ FITTINGS ☐ COUPLING SAW DATE 11-27-84
☐ BORING MILL ☐ RANDOM SAW SHIFT 1ST

Date of MFG.	Pipe No.	Furnish & Crew	Bursting Pressure	Position	Size & Class	Description	Good Pieces	Rejects	Total Pieces
					10" 200 IPS	2" NPT	65	-	65

DAILY PRODUCTION

OPERATION: Fittings

Time Started: 2:30
Time Finished: 4:00

Size & Class	Description	Good Inventory Pieces	Index Standard Pieces/Hr.	Index Hours Earned	Reject Pieces	Total Pieces

Total Index Hours Earned: [ ]

Total Scheduled Hours: 8.00

Production Index: [ ]

Delay Time	Total	Cause of Delay

CTD016543

Signed: T. Brown Signed: _____ Approved: Johnny Sloan

02-22-0003 3/75 (P-971)

FINISHING LINE PRODUCTION REPORT

PIPE TESTER LINE NUMBER 1/4 Fm Line

SHIFT 1A

DATE 11-27-84

FULL LENGTHS, ½'s OR ¼'s								RANDOM LENGTHS				
☐ P/B ☑ P/E		☐ P/B ☑ P/E 300		☐ P/B ☐ P/E		☐ P/B ☐ P/E				☐ P/B ☐ P/E		☐ P/B ☐ P/E
TIME TO STOCK	SIZE & CLASS 8" 150 1/4 FM NO. OF PCS.	TIME TO STOCK	SIZE & CLASS 8" 150 1/4 Fm NO. OF PCS.	TIME TO STOCK	SIZE & CLASS NO. OF PCS.	TIME TO STOCK	SIZE & CLASS NO. OF PCS.	LENGTH	TIME TO STOCK	SIZE & CLASS NO. OF PCS.	TIME TO STOCK	SIZE & CLASS NO. OF PCS.
8:00	12	305	12									
8:25	12	320	12									
8:45	12	342	12									
9:10	12											
9:25	12											
9:50	12											
10:20	12											
1032	12											
1047	12											
11:03	12											
1:16	12											
135	12											
1:50	12											
2:34	12											
250	12											
305	12											
1:21	12											
1:46	12											
2:00	12											
2:25	12											
234	12											
247	12											
TOTAL PIECES			300									
PCS. CONV. TO FEET			975									

RT 7:30 - 4:00

DELAY TIME DETAIL

CAUSE OF DELAY	MINUTES	CODE
8" 150 STOCK 81		
TOTAL TIME	NET TIME	TOTAL DELAY MINUTES →

PREPARED BY Albert Hornak

APPROVED BY Johnny Slovak

CTD016544

02-22-0003 3/75 (P-971)

FINISHING LINE PRODUCTION REPORT

PIPE TESTER LINE NUMBER #1 | 264 | SHIFT 1A | DATE 11-27-84

143

FULL LENGTHS, ½'S OR ¼'S								RANDOM LENGTHS				
☑ P/B ☐ P/E		☑ P/B ☐ P/E		☑ P/B ☐ P/E		☐ P/B 70 ☑ P/E				☑ P/B ☐ P/E		☐ P/B ☐ P/E
TIME TO STOCK	SIZE & CLASS 8"100 O/R 13' NO. OF PCS.	TIME TO STOCK	SIZE & CLASS 10"150 NO. OF PCS.	TIME TO STOCK	SIZE & CLASS 10"150 NO. OF PCS.	TIME TO STOCK	SIZE & CLASS 8"100 ½ MEO NO. OF PCS.	LENGTH	TIME TO STOCK 61	SIZE & CLASS 8"100 O/R NO. OF PCS.	TIME TO STOCK	SIZE & CLASS NO. OF PCS.
7:47	12	1:21	6	2:40	6	11:04	12	12'	9:30	12		
8:05	12	1:25	6	2:43	6	11:25	12	12'	9:48	12		
8:15	12	1:28	6	2:47	6	11:34	12	12'	10:13	12		
8:30	12	1:32	6	2:50	6	11:43	12	12'	10:25	12		
8:38	12	1:35	6	2:54	6	11:48	12	12'	10:34	12		
8:43	12	1:38	6	2:57	6	11:54	10	12'	10:36	1		
8:48	12	1:43	6	3:00	6							
8:53	12	1:46	6	3:04	6							
8:58	12	1:49	6	3:08	6							
9:05	12	1:52	6	3:12	6							
9:11	12	1:55	6	3:15	6							
9:18	11	1:58	6	3:17	6							
		2:00	6	3:20	6							
		2:13	6	3:24	6							
		2:15	6	3:27	6							
		2:18	6	3:30	6							
		2:21	6	3:33	6							
		2:24	6	3:36	6							
		2:27	6	3:40	6							
		2:30	6	3:43	6							
		2:33	6	3:45	6							
		2:35	6	3:50	6							
TOTAL PIECES	*143				264		70			*"R" 61		
PCS. CONV. TO FEET	1859				3432		455			732		

2:30

DELAY TIME DETAIL

CAUSE OF DELAY	MINUTES	CODE
Q C PIPE [1-8"100] 10"150-1		
SCRAP cpls [8"100 - ~~[illegible]~~] 10"150-1		
TOTAL TIME	NET TIME	TOTAL DELAY MINUTES →

PREPARED BY B Brooks

APPROVED BY [signature]

CTD016545

02-22-0003 3/75 (P-971)

FIN' 1ING LINE PRODUCTION RE 2RT

PIPE TESTER LINE NUMBER #1 | SHIFT 1D | DATE 11-27-84

FULL LENGTHS. ½'s OR ¼'s

☐ P/B ☐ P/E		☑ P/B ☐ P/E		☐ P/B ☐ P/E		☐ P/B ☐ P/E	
TIME TO STOCK	SIZE & CLASS 12"150 NO. OF PCS.	TIME TO STOCK	SIZE & CLASS 12"150 NO. OF PCS.	TIME TO STOCK	SIZE & CLASS NO. OF PCS.	TIME TO STOCK	SIZE & CLASS NO. OF PCS.
735	6	9:18	6				
740	6	9:23	6				
744	6	9:28	6				
748	6	9:33	6				
752	6	9:38	6				
756	6	9:43	6				
800	6	9:47	6				
804	6	9:51	3				
808	6	12:35	2				
812	6						
816	6						
820	6						
826	6						
834	6						
841	6						
846	6						
851	6						
856	6						
900	6						
906	6						
909	6						
913	6						
TOTAL PIECES			1794				
TOTAL CONV. TO FEET			2327				

RANDOM LENGTHS

LENGTH	TIME TO STOCK	☐ P/B ☐ P/E SIZE & CLASS NO. OF PCS.	TIME TO STOCK	☐ P/B ☐ P/E SIZE & CLASS NO. OF PCS.

PT 7:30 - 9:51

DELAY TIME DETAIL

CAUSE OF DELAY	MINUTES	CODE
12" 150 ac - 1		

TOTAL TIME | NET TIME | TOTAL DELAY MINUTES →

PREPARED BY RBC

APPROVED BY

CTD016546

02-22-0003 3/75 (P-971)

FIN. ING LINE PRODUCTION RE ORT

PIPE TESTER LINE NUMBER 1 #

SHIFT 10

DATE 11-27-84

FULL LENGTHS, ½'s OR ¼'s

433

☐ P/B ☐ P/E		☐ P/B ☐ P/E		☑ P/B ☐ P/E		☐ P/B ☐ P/E	
TIME TO STOCK	SIZE & CLASS 12" J-55 13' NO. OF PCS.	TIME TO STOCK	SIZE & CLASS 12" J-55 13' NO. OF PCS.	TIME TO STOCK	SIZE & CLASS 12" J-55 13' NO. OF PCS.	TIME TO STOCK	SIZE & CLASS 12" J-55 13' NO. OF PCS.
9:51	3	11:34	6	1:46	6	3:26	6
9:55	6	11:38	6	1:50	6	3:29	6
9:59	6	11:42	6	1:54	6	3:32	6
10:15	6	11:46	6	1:58	6	3:36	6
10:20	6	11:50	6	2:14	6	3:40	6
10:25	6	11:55	6	2:18	6	3:43	6
10:30	6	12:00	6	2:22	6	3:46	6
10:34	6	12:35	4	2:26	6		
10:38	6	12:40	6	2:30	6		
10:41	6	12:45	6	2:35	6		
10:44	6	12:50	6	2:40	6		
10:47	6	12:55	6	2:44	6		
10:50	6	1:00	6	2:48	6		
10:55	6	1:05	6	2:51	6		
11:00	6	1:10	6	2:54	6		
11:05	6	1:15	6	2:58	6		
11:10	6	1:20	6	3:02	6		
11:14	6	1:25	6	3:06	6		
11:18	6	1:30	6	3:10	6		
11:22	6	1:35	6	3:14	6		
11:26	6	1:40	6	3:18	6		
11:30	6	1:43	6	3:22	6		
TOTAL PIECES							433
PCS. CONV. TO FEET							5629

RANDOM LENGTHS

LENGTH	TIME TO STOCK	☐ P/B ☐ P/E SIZE & CLASS NO. OF PCS.	TIME TO STOCK	☐ P/B ☐ P/ SIZE & CLASS NO. OF PCS.

9:51 4:00

DELAY TIME DETAIL 0c : 11

CAUSE OF DELAY	MINUTES	COD
"B" Pipe "B" Finish Line		

TOTAL TIME | NET TIME | TOTAL DELAY MINUTES

PREPARED BY RDC

APPROVED BY

CTD016547

02-22-0003 3/75 (P-971)

FINI[illegible]ING LINE PRODUCTION REI[illegible]RT

PIPE TESTER LINE NUMBER #3

SHIFT 2B

DATE 11-27-84

FULL LENGTHS, ½'s OR ¼'s								RANDOM LENGTHS				
☒ P/B ☐ P/E		☐ P/B ☐ P/E		☐ P/B ☐ P/E		☐ P/B ☐ P/E				☒ P/B ☐ P/E		☐ P/B ☐ P/E
TIME TO STOCK	SIZE & CLASS 16"/50 13'	TIME TO STOCK	SIZE & CLASS	TIME TO STOCK	SIZE & CLASS	TIME TO STOCK	SIZE & CLASS	LENGTH	TIME TO STOCK	SIZE & CLASS 16"/50 RANDOMS	TIME TO STOCK	SIZE & CLASS
	NO. OF PCS		NO. OF PCS.		NO. OF PCS.		NO. OF PCS.			NO. OF PCS		NO. OF PCS
1045	5							12'	12:00	5 3 5		
1050	5								12:15			
1100	5								1215	OK		
1105	5											
1110	5											
1115	5											
1120	5											
1125	5											
1130	3 OK											
TOTAL PIECES	43									13		
S.CONV. FEET	559									156		

P.T. 9:00 - 12:30

DELAY TIME DETAIL

CAUSE OF DELAY	MINUTES	CODE

CTD016548

TOTAL TIME | NET TIME | TOTAL DELAY MINUTES →

PREPARED BY [signature] | APPROVED BY [signature]

02-22-0003 3/75 (P-971)

FINI JING LINE PRODUCTION RE RT

PIPE TESTER LINE NUMBER #3

SHIFT 2B

DATE 11-27-84

40 - 40' JOINTS FULL LENGTHS. ½'s OR ¼'s 110 110

RANDOM LENGTHS

P/B	P/E	TIME TO STOCK	SIZE & CLASS	NO OF PCS
☒	☐	415	16"/150 13'	3
☒	☐	422	16"/150 13'	3
☒	☐	435	16"/150 13'	3
☒	☐	443	16"/150 13'	3
☒	☐	450	16"/150 13'	3
☒	☐	457	16"/150 13'	3
☒	☐	505	16"/150 13'	3
☒	☐	510	16"/150 13'	3
☒	☐	515	16"/150 13'	5
☒	☐	520	16"/150 13'	5
☒	☐	525	16"/150 13'	5
☒	☐	530	16"/150 13'	5
☒	☐	535	16"/150 13'	5
☒	☐	540	16"/150 13'	5
☒	☐	545	16"/150 13'	5
☒	☐	550	16"/150 13'	5
☒	☐	555	16"/150 13'	5
☒	☐	615	16"/150 13'	5
☒	☐	625	16"/150 13'	5
☒	☐	630	16"/150 13'	5
☒	☐	635	16"/150 13'	5
☒	☐	645	16"/150 13'	5
☒	☐	650	16"/150 13'	5
☒	☐	655	16"/150 13'	5
☒	☐	700	16"/150 13'	5
☒	☐	705	16"/150 13'	5
☒	☐	710	16"/150 13'	5
☒	☐	715	16"/150 13'	5
☒	☐	723	16"/150 13'	5
☒	☐	730	16"/150 13'	5
☒	☐	735	16"/150 13'	5
☒	☐	740	16"/150 13'	5
☒	☐	745	16"/150 13'	5
☒	☐	750	16"/150 13'	5
☒	☐	800	16"/150 13'	5
☒	☐	835	16"/150 13'	5
☒	☐	840	16"/150 13'	5
☒	☐	845	16"/150 13'	5
☒	☐	850	16"/150 13'	5
☒	☐	900	16"/150 13'	5
☒	☐	905	16"/150 13'	5
☒	☐	910	16"/150 13'	5
☒	☐	915	16"/150 13'	5
☒	☐	920	16"/150 13'	5
☒	☐	925	16"/150 13'	5
☒	☐	935	16"/150 13'	5
☒	☐	945	16"/150 13'	5
☒	☐	955	16"/150 13'	5
☒	☐	1000	16"/150 13'	5
☒	☐	1010	16"/150 13'	5
☒	☐	1020	16"/150 13'	5
☒	☐	1025	16"/150 13'	5
TOTAL PIECES				260
LBS. CONV. Q FEET				3380

ok

P.T. 4:00 - 12:30

DELAY TIME DETAIL

CAUSE OF DELAY	MINUTES	CODE
QC PIPE		
SCRAP COUP.		

CTD016549

TOTAL TIME | NET TIME | TOTAL DELAY MINUTES →

PREPARED BY Mike Chard

APPROVED BY

HYDRO TEST WORK SHEET

☐ FITTINGS ☐ COU VG SAW
☐ BORING MILL ☒ RANDOM SAW

DATE 11-28-84
SHIFT 1st

Date of MFG.	Pipe No.	Furnish & Crew	Bursting Pressure	Position	Size & Class	Description	Good Pieces	Rejects	Total Pieces
			13'		8"-200	FM/2	12 ✓		
			13'		10"-150	MED/2	64 ✓		
			13'		10"-150	MED/4	40 ✓		
			Rework		16"-100	MED/2	2 ✓		
					16"-100	MED/4	2 ✓		
			Rework		10"-150	MED/2	22 ✓		
					10"-150	MED/4	22 ✓		
					12"-150	MED/2	4 ✓		
			Rework		12"-150	MED/4	4 ✓		
					16"-150	MED/2	1		
					16"-150	MED/4	1		

OPERATION: Random Saw

DAILY PRODUCTION

Time Started: 7:30
Time Finished: 2:00

Size & Class	Description	Good Inventory Pieces	Index Standard Pieces/Hr.	Index Hours Earned	Reject Pieces	Total Pieces

Total Index Hours Earned: ____ Total Scheduled Hours: ____ Production Index: ____

Delay Time	Total	Cause of Delay
		Lesticks 8"-200 FM Stock 2 trays 32 sticks MED/2 10 sticks MED/4 Tostlips R 3 sets B 11

42
10"/150

Signed: R.C. Redinger Signed: ____ Approved: Link

CTD016550

HYDRO TEST WORK SHEET

☐ FITTINGS ☐ COUPLING SAW DATE 11/28/84
☐ BORING MILL ☐ RANDOM SAW SHIFT 1ST

Date of MFG.	Pipe No.	Furnish & Crew	Bursting Pressure	Position	Size & Class	Description	Good Pieces	Rejects	Total Pieces
					12"150-MCO	12'6"	1	0	1
						11 2 S	112	2	114
						1 4 S	12	2	14

OPERATION: B-Plant Cutter

DAILY PRODUCTION

Time Started: 11:45
Time Finished: 5:30

Size & Class	Description	Good Inventory Pieces	Index Standard Pieces/Hr.	Index Hours Earned	Reject Pieces	Total Pieces

Total Index Hours Earned: [ ]
Total Scheduled Hours: [ ]
Production Index: [ ]

Delay Time	Total	Cause of Delay
5:10-5:30	.20	CLEAN U/R 53 pcs. 12"150 pipe for 11 2's MCO

Signed: R Logan Signed: _____ Approved: _____

CTD016551

HYDRO TEST WORK SHEET

☐ FITTINGS ☐ COU NG SAW DATE 11-28-84
☐ BORING MILL ☐ RANDOM SAW SHIFT 1st

Date of MFG.	Pipe No.	Furnish & Crew	Bursting Pressure	Position	Size & Class	Description	Good Pieces	Rejects	Total Pieces	
					8" 150	½ FM	56	0	56	W/F
					8" 200	½ FM	11	0	11	W/F

DAILY PRODUCTION

OPERATION: small FM

Time Started: 7:30
Time Finished: 4:00

Size & Class	Description	Good Inventory Pieces	Index Standard Pieces/Hr.	Index Hours Earned	Reject Pieces	Total Pieces
8" 150	½ FM. Changeover to 8" 200.	56	7.75	7.23 .175	0	56
8" 200	½ FM	11	7.75	1.42	0	11

Total Index Hours Earned: 9.40
Total Scheduled Hours: 8.00
Production Index: 118%

Delay Time	Total	Cause of Delay
7:30-7:45	15 min	setup
12:50-1:05	15 min	~~[illegible]~~ tooling
3:45-4:00	15 min	cleanup

CTD016552

Signed: [signature] Signed: _____ Approved: [signature]

HYDRO TEST WORK SHEET

☐ FITTINGS ☐ COUPLING SAW DATE 11-28-84
☐ BORING MILL ☐ RANDOM SAW SHIFT 1st

Date of MFG.	Pipe No.	Furnish & Crew	Bursting Pressure	Position	Size & Class	Description	Good Pieces	Rejects	Total Pieces
					8" 150	CLS	303	67	370
					10" 150	CLS	700	33	733

OPERATION: B.M.# 1-3

DAILY PRODUCTION

Time Started: 7:30
Time Finished: 4:00

Size & Class	Description	Good Inventory Pieces	Index Standard Pieces/Hr.	Index Hours Earned	Reject Pieces	Total Pieces
8"150	C/S	303	300	1.01	67	370
	Change over to 10"150			.50		
10"150	C/S	700	276	2.54	33	733

Total Index Hours Earned: 4.04
Total Scheduled Hours: 8.00
Production Index: 51%

Delay Time	Total	Cause of Delay
	60	Sharpen tools 4 times
	45	Sharpen tools 3 times
	30	Change over
	30	Change over
	15	Clean up
	15	Clean up

CTD016553

Signed: C.B. Signed: K.B. Approved: Johnny Hooks

59

HYDRO TEST WORK SHEET

☐ FITTINGS ☐ COU VG SAW
☑ BORING MILL 4 ☐ RANDOM SAW

DATE 11-28-84
SHIFT

Date of MFG.	Pipe No.	Furnish & Crew	Bursting Pressure	Position	Size & Class	Description	Good Pieces	Rejects	Total Pieces
					16"150	C/S	270	4	274

OPERATION: Large B.M. BM # 4

DAILY PRODUCTION

Time Started: 7 30
Time Finished: 4 30

Size & Class	Description	Good Inventory Pieces	Index Standard Pieces/Hr.	Index Hours Earned	Reject Pieces	Total Pieces
16"150	C/S	270	56.	4.82	4	274

Total Index Hours Earned	4.82	Total Scheduled Hours	8.00	Production Index	60.2

Delay Time	Total	Cause of Delay
	25	Sharpen tools
	30	wait on coupling stock
	15	Clean up

CTD016554

Signed: Quality Control Signed: _____ Approved: Johnny Shook

HYDRO TEST WORK SHEET

☐ FITTINGS ☒ COL. NG SAW DATE 11-28-84
☐ BORING MILL ☐ RANDOM SAW SHIFT 1st

Date of MFG.	Pipe No.	Furnish & Crew	Bursting Pressure	Position	Size & Class	Description	Good Pieces	Rejects	Total Pieces
					16"-150	CS	95		

OPERATION: Coupling Saw

DAILY PRODUCTION

Time Started: 2:00
Time Finished: 4:00

Size & Class	Description	Good Inventory Pieces	Index Standard Pieces/Hr.	Index Hours Earned	Reject Pieces	Total Pieces
16"-150	CS	95	62	1.53	—	95

Total Index Hours Earned	1.53	Total Scheduled Hours	2:00	Production Index	77%

Delay Time	Total	Cause of Delay
		16"-150 CS 6 sticks

CTD016555

Signed: R.C. Rodriguez Signed: _____ Approved: Johnny Slovak

HYDRO TEST WORK SHEET

☐ FITTINGS ☐ COL NG SAW
☐ BORING MILL ☐ RANDOM SAW

DATE 11/28/86
SHIFT 1ST

Date of MFG.	Pipe No.	Furnish & Crew	Bursting Pressure	Position	Size & Class	Description	Good Pieces	Rejects	Total Pieces
					16" 150 T	C/S	96	0	96

OPERATION: Lg Cplg Saw

DAILY PRODUCTION

Time Started: 8:15
Time Finished: 10:30

Size & Class	Description	Good Inventory Pieces	Index Standard Pieces/Hr.	Index Hours Earned	Reject Pieces	Total Pieces

Total Index Hours Earned ☐ Total Scheduled Hours ☐ Production Index ☐

Delay Time	Total	Cause of Delay
		6 STICKS 16"150-T Less than 2 hrs. Prob. No index

CTD016556

Signed: R. Logan Signed: _____ Approved: _____

HYDRO TEST WORK SHEET

☐ FITTINGS ☐ COL NG SAW
☐ BORING MILL ☐ RANDOM SAW

DATE 11-28-84
SHIFT 1st

Date of MFG.	Pipe No.	Furnish & Crew	Bursting Pressure	Position	Size & Class	Description	Good Pieces	Rejects	Total Pieces
					8"/150	S/S	5	0	5
					10"/150	S/S	51	0	51

OPERATION: Cut-off

DAILY PRODUCTION

Time Started: 730
Time Finished: 3:40

Size & Class	Description	Good Inventory Pieces	Index Standard Pieces/Hr.	Index Hours Earned	Reject Pieces	Total Pieces

Total Index Hours Earned: [ ]

Total Scheduled Hours: 8.00

Production Index: [ ]

Delay Time	Total	Cause of Delay
1:55	1:55	Boring mills

CTD016557

Signed: F. Hill

Signed: _____

Approved: Johnny Novak

HYDRO TEST WORK SHEET

☐ FITTINGS ☐ COL NG SAW
☐ BORING MILL ☐ RANDOM SAW

DATE 11-28-89
SHIFT 1A

Date of MFG.	Pipe No.	Furnish & Crew	Bursting Pressure	Position	Size & Class	Description	Good Pieces	Rejects	Total Pieces
					10" 150	13' P/B	24	3	27

OPERATION: #1

DAILY PRODUCTION

Time Started: ~~4:~~ 9:45
Time Finished: 10:15

Size & Class	Description	Good Inventory Pieces	Index Standard Pieces/Hr.	Index Hours Earned	Reject Pieces	Total Pieces
10"-150	13' P/B Set-up Line	24	120	.20 .25	3	27

Total Index Hours Earned: .45 (5.95)
Total Scheduled Hours: .50 (7.00)
Production Index: 90 % (85%)

Delay Time	Total	Cause of Delay
9:45-9:55	10	Down (1) 10" 150 - 13'

CTD016558

Signed: [signature] Signed: _____ Approved: [signature]

HYDRO TEST WORK SHEET

☐ FITTINGS ☐ COL NG SAW DATE 11-28-84
☐ BORING MILL ☐ RANDOM SAW SHIFT 1A

Date of MFG.	Pipe No.	Furnish & Crew	Bursting Pressure	Position	Size & Class	Description	Good Pieces	Rejects	Total Pieces
					16" 150	1/2 MES P/E	4	1	5
					16" 100	13' P/B	45	2	47
					16" 100	1/2 MES P/E	2	—	2

OPERATION: #3

DAILY PRODUCTION

Time Started: 7:30
Time Finished: 9:45

Size & Class	Description	Good Inventory Pieces	Index Standard Pieces/Hr.	Index Hours Earned	Reject Pieces	Total Pieces
16" - 150	1/2 MEO 5x7-up	4	57	.07 .25	1	5
16" - 100	13' P/B 5x7-up	45	53	.85	2	47
16" - 100	1/2 MEO	2	57	.25 .04	0	2

Total Index Hours Earned: 1.96 (7.47)
Total Scheduled Hours: 2.00 (8.50)
(50) Production Index: 98% (88%)

Delay Time	Total	Cause of Delay
7:30 - 7:45	15	working on mes valve (m)
7:50 - 8:20	30	change line (3) 16" 100
8:20 - 8:30	10	working on mes valve (m)
9:30 - 9:40	10	change two 1/2 - MEO [redacted]

Signed: [signature] Signed: _____ Approved: [signature]

CTD016559

HYDRO TEST WORK SHEET

☐ FITTINGS ☐ COL NG SAW
☐ BORING MILL ☐ RANDOM SAW

DATE 11-28-84
SHIFT 1A

Date of MFG.	Pipe No.	Furnish & Crew	Bursting Pressure	Position	Size & Class	Description	Good Pieces	Rejects	Total Pieces
					10" 150	1/2 MEO P/E	91	20	111
					10" 150	1/2 Fm	17	3	20
					10" 150	1/4 MEO	70	10	80

OPERATION: #2 + 3

DAILY PRODUCTION

Time Started: 10:~~30~~ 15
Time Finished: 4:00

Size & Class	Description	Good Inventory Pieces	Index Standard Pieces/Hr.	Index Hours Earned	Reject Pieces	Total Pieces
	SET-UP			.75		
10"-150	1/2 FM	17 ✓	102	.17	3	20
	SET-UP			.75		
10"-150	1/2 MVO	91 ✓	100	.91	20	111
	SET-UP			.25		
10"-150	1/4 MVO	70 ✓	100	.70	10	80
	SET-UP 10"-200 1/4 MVO			.25		

Total Index Hours Earned: 3.78
Total Scheduled Hours: 5.00
Production Index: 76%

Delay Time	Total	Cause of Delay
10:15-11:00	45	change line (3) 10" 150 - F.M.
11:20-11:25	5	change line 10" 150 - MEO
1:40-1:50	10	" " " " - 1/4 - MEO
3:45-4:00	15	clean up

Signed: Leon Samenberg Signed: _____ Approved: [signature]

CTD016560

HYDRO TEST WORK SHEE.

☐ FITTINGS ☐ COL ING SAW DATE 11-28-84
☐ BORING MILL ☐ RANDOM SAW SHIFT 1B

Date of MFG.	Pipe No.	Furnish & Crew	Bursting Pressure	Position	Size & Class	Description	Good Pieces	Rejects	Total Pieces
					8" 150	1/4 FM	300	18	318

DAILY PRODUCTION

OPERATION: 1/4F machine

Time Started: 7.70

Time Finished: 4:00

Size & Class	Description	Good Inventory Pieces	Index Standard Pieces/Hr.	Index Hours Earned	Reject Pieces	Total Pieces
8"150	1/4 FM.	300	38	7.89	18	318

Total Index Hours Earned: 7.89

Total Scheduled Hours: 8.00

Production Index: 99%

Delay Time	Total	Cause of Delay

CTD016561

Signed: Linda Rodgers Signed: Betty Starnes Approved: Johnny Slovak

HYDRO TEST WORK SHEET

☐ FITTINGS ☐ COUPLING SAW ☐ BORING MILL ☐ RANDOM SAW

DATE 11-28-84
SHIFT 2B

Date of MFG.	Pipe No.	Furnish & Crew	Bursting Pressure	Position	Size & Class	Description	Good Pieces	Rejects	Total Pieces
					10" 150	13' P/B	630	30	660

OPERATION: #1 Line

DAILY PRODUCTION

Time Started: 5:30

Time Finished: 12:30

Size & Class	Description	Good Inventory Pieces	Index Standard Pieces/Hr.	Index Hours Earned	Reject Pieces	Total Pieces
10"150	13' P/B	630	120	5.25	30	660
	Bolt Change			.25		

Total Index Hours Earned: 5.50

Total Scheduled Hours: 6.50

Production Index: 85%

Delay Time	Total	Cause of Delay
6:20 - 6:35	15 min	Changing Boot in Head

CTD016562

Signed: Ronald Jones Signed: _____ Approved: _____

HYDRO TEST WORK SHEET

☐ FITTINGS ☐ COUPLING SAW
☐ BORING MILL ☐ RANDOM SAW

DATE 11-28-84
SHIFT 2B

Date of MFG.	Pipe No.	Furnish & Crew	Bursting Pressure	Position	Size & Class	Description	Good Pieces	Rejects	Total Pieces
					10" 150	1/4 MEO	33	3	36
					10" 200	1/4 MEO	40	12	52
					10" 200	1/2 MEO	2	0	2

OPERATION: #2+3 Line

DAILY PRODUCTION

Time Started: 4:00
Time Finished: 5:30

Size & Class	Description	Good Inventory Pieces	Index Standard Pieces/Hr.	Index Hours Earned	Reject Pieces	Total Pieces
10" 150	1/4 MCO	33	100	.33	3	36
	Set-Up			.75		
10" 200	1/4 MCO	40	100	.40	12	52
	Set-Up			.25		
10" 200	1/2 MCO	2		0		2

Total Index Hours Earned: 1.73
Total Scheduled Hours: 1.50
Production Index: 115%

Delay Time	Total	Cause of Delay

CTD016563

Signed: R. Tance Signed: _____ Approved: J. L. [illegible]

HYDRO TEST WORK SHEE.

☐ FITTINGS ☐ COL ING SAW DATE 11-28-84
☐ BORING MILL ☐ RANDOM SAW SHIFT 1D

	Date of MFG.	Pipe No.	Furnish & Crew	Bursting Pressure	Position	Size & Class	Description	Good Pieces	Rejects	Total Pieces
28	11-15	100	AKITC-2D	525	F	12"150	PIB 13'	576	18	594
22	11-16	116	AKITC-30	525	L	12"150				
1	11-15	220	AKITC-30	525	B	12"150				
	12"					12"150	Random	9	0	9
						12"150	½ mec	30	35	65

OPERATION: 1st

DAILY PRODUCTION

Time Started: 9:00
Time Finished: 5:30

Size & Class	Description	Good Inventory Pieces	Index Standard Pieces/Hr.	Index Hours Earned	Reject Pieces	Total Pieces
12"150	13' P.B.	576 ✓	100	5.76	18	594
12"150	Random	9 ✓	150	.09	0	9
	½ Sect			.25		
12"150	½ mec	30 ✓	100	.30	35	65

Total Index Hours Earned	Total Scheduled Hours	Production Index
6.40	8.00	80.00

Delay Time	Total	Cause of Delay
4:15 - 4:25	10 min	Setting up on ½ mec 12"150

3" Pipe
3" Finish Line

Signed: [signature] Signed: _____ Approved: _____

CTD016564

HYDRO TEST WORK SHEET

☐ FITTINGS ☐ CO[illegible]ING SAW DATE _____
☐ BORING MILL ☐ RANDOM SAW SHIFT _____

Date of MFG.	Pipe No.	Furnish & Crew	Bursting Pressure	Position	Size & Class	Description	Good Pieces	Rejects	Total Pieces
					8"/150	C/S	125	0	125
							125	1	126

OPERATION: Smkpl Tests

DAILY PRODUCTION

Time Started: 7:30
Time Finished: 400

Size & Class	Description	Good Inventory Pieces	Index Standard Pieces/Hr.	Index Hours Earned	Reject Pieces	Total Pieces

Total Index Hours Earned [ ] Total Scheduled Hours [ ] Production Index [ ]

Delay Time	Total	Cause of Delay

CTD016565

Signed: Willie Buckley Signed: [illegible] Approved: Johnny Stovall

HYDRO TEST WORK SHEE.

☐ FITTINGS ☐ CO. .ING SAW DATE 11/28/84
☐ BORING MILL ☐ RANDOM SAW SHIFT

Date of MFG.	Pipe No.	Furnish & Crew	Bursting Pressure	Position	Size & Class	Description	Good Pieces	Rejects	Total Pieces
					8"/150	C/S	125	4	129
							125	9	134
							125	1	126
							125	0	125
							125	1	126
							125	0	125
							125	0	125
							125	1	126
							125	2	127
							125	0	125
							125	0	125
							125	3	128
							125	0	125
							125	1	126
							125	0	125

OPERATION: Sm Cpl Tester

DAILY PRODUCTION

Time Started: 1:30
Time Finished: 4:00

Size & Class	Description	Good Inventory Pieces	Index Standard Pieces/Hr.	Index Hours Earned	Reject Pieces	Total Pieces
8"/15	C/S	2125	275	7.73	23	2148

Total Index Hours Earned	7.73	Total Scheduled Hours	8.00	Production Index	97%

Delay Time	Total	Cause of Delay

CTD016566

Signed: Willie Bradley Signed: [illegible] Approved: Johnny Slovak

HYDRO TEST WORK SHEE.

☑ FITTINGS ☐ CO. .ING SAW DATE 11-28-84
☐ BORING MILL ☐ RANDOM SAW SHIFT 1ST

Date of MFG.	Pipe No.	Furnish & Crew	Bursting Pressure	Position	Size & Class	Description	Good Pieces	Rejects	Total Pieces
					10" 200 IPS	2" NPT	10	-	10
					6" 200 IPS	1½ NPT	42	-	42

OPERATION: Fittings

DAILY PRODUCTION

Time Started: 7:30
Time Finished: 4:00

Size & Class	Description	Good Inventory Pieces	Index Standard Pieces/Hr.	Index Hours Earned	Reject Pieces	Total Pieces

Total Index Hours Earned: [ ]
Total Scheduled Hours: 8.00
Production Index: [ ]

Delay Time	Total	Cause of Delay

CTD016567

Signed: T. Brown Signed: _____ Approved: Johnny Hook

02-22-0003 3/75 (P-971)

FINISHING LINE PRODUCTION REPORT

PIPE TESTER LINE NUMBER 1/4 Fin line

SHIFT 1A

DATE 11-28-84

FULL LENGTHS, 1½'s OR ¼'s

☐ P/B ☑ P/E		☐ P/B ☑ P/E		☐ P/B ☐ P/E		☐ P/B ☐ P/E	
TIME TO STOCK	SIZE & CLASS 1¼ Fin 8" 150	TIME TO STOCK	SIZE & CLASS 1¼ Fin 8" 150	TIME TO STOCK	SIZE & CLASS	TIME TO STOCK	SIZE & CLASS
	NO. OF PCS.		NO. OF PCS.		NO. OF PCS.		NO. OF PCS.
8.00	12	3:30	12				
820	12	3:45	12				
850	12	4:00	12				
7:05	12						
927	12						
950	12						
10:15	12						
1035	12						
1050	12						
11:15	12						
1132	12						
11:50	12						
235	12						
12:00	12						
1:20	12						
1:40	12						
1:55	12						
2:15	12						
233	12						
248	12						
3:00	12						
315	12						
TOTAL PIECES			300				
CS. CONV. TO FEET			975.				

RANDOM LENGTHS

LENGTH	TIME TO STOCK	☐ P/B ☐ P/E SIZE & CLASS	TIME TO STOCK	☐ P/B ☐ P/E SIZE & CLASS
		NO. OF PCS.		NO. OF PCS.

PT 1:30 - 4:00

DELAY TIME DETAIL

CAUSE OF DELAY	MINUTES	CODE
8" 150 STOCK	79½	

TOTAL TIME	NET TIME	TOTAL DELAY MINUTES →	

PREPARED BY Albert J Barnak

APPROVED BY Johnny Slovak

CTD016568

02-22-0003 3/75 (P-971)

FINISHING LINE PRODUCTION REPORT

PIPE TESTER LINE NUMBER #1 | SHIFT 1A | DATE 11-28-84

FULL LENGTHS. ½'s OR ¼'s

(24)

☒ P/B ☐ P/E

TIME TO STOCK	SIZE & CLASS	NO. OF PCS.
9:55	10"/50	6
10:00		6
10:20		6
10:25		6
TOTAL PIECES		24
PCS. CONV. TO FEET		312

☐ P/B ☐ P/E

TIME TO STOCK	SIZE & CLASS	NO. OF PCS.

☐ P/B ☐ P/E

TIME TO STOCK	SIZE & CLASS	NO. OF PCS.

☐ P/B ☐ P/E

TIME TO STOCK	SIZE & CLASS	NO. OF PCS.

RANDOM LENGTHS

LENGTH	TIME TO STOCK

☐ P/B ☐ P/E

SIZE & CLASS	NO. OF PCS.	TIME TO STOCK

☐ P/B ☐ P/E

SIZE & CLASS	NO OF PCS

DELAY TIME DETAIL

CAUSE OF DELAY	MINUTES	CODE
TOTAL DELAY MINUTES →		☒

TOTAL TIME | NET TIME

PREPARED BY R. Brooks

APPROVED BY

CTD016569

02-22-0003 3/75 (P-971)

FINISHING LINE PRODUCTION REPORT

PIPE TESTER LINE NUMBER #4

SHIFT [redacted]B

DATE 11-28-84

FULL LENGTHS, ½'s OR ¼'s								RANDOM LENGTHS				
☐ P/B ☐ P/E		☑ P/B ☐ P/E		☑ P/B ☐ P/E		☑ P/B ☐ P/E				☐ P/B ☐ P/E		☐ P/B ☐ P/E
TIME TO STOCK	SIZE & CLASS 10"/150 13' NO. OF PCS.	TIME TO STOCK	SIZE & CLASS 10"/150 13' NO. OF PCS.	TIME TO STOCK	SIZE & CLASS 10"/150 13' NO. OF PCS.	TIME TO STOCK	SIZE & CLASS 10"/150 13' NO. OF PCS.	LENGTH	TIME TO STOCK	SIZE & CLASS NO. OF PCS.	TIME TO STOCK	SIZE & CLASS NO. OF PCS.
540	6	726	6	908	6	1013	6					
545	6	728	6	909	6	1016	6					
550	6	730	6	912	6	1019	6					
555	6	733	6	915	6	1021	6					
600	6	736	6	918	6	1024	6					
615	6	738	6	921	6	1028	6					
620	6	740	6	924	6	1031	6					
625	6	743	6	927	6	1045	6					
640	6	746	6	930	6	1050	6					
645	6	749	6	932	6	1053	6					
650	6	754	6	935	6	1056	6					
653	6	758	6	937	6	1059	6					
656	6	801	6	940	6	1102	6					
658	6	833	6	943	6	1104	6					
700	6	837	6	947	6	1106	6					
704	6	840	6	950	6	1110	6					
708	6	845	6	954	6	1113	6					
712	6	848	6	957	6	1116	6					
715	6	852	6	1000	6	1120	6					
718	6	855	6	1004	6	1124	6					
720	6	900	6	1007	6	1128	6					
723	6	903	6	1010	6	132	6					
TOTAL PIECES							528					
PCS. CONV. TO FEET							6864					

P.T. 5:30 - 12:30

DELAY TIME DETAIL

CAUSE OF DELAY	MINUTES	CODE
QCPIPE 1111		
SCRAPCOUR 1		
TOTAL TIME	NET TIME	TOTAL DELAY MINUTES →

PREPARED BY Mike [illegible]

APPROVED BY J. [illegible]

CTD016570

02-22-0003 3/75 (P-971)

FINISHING LINE PRODUCTION REPORT

PIPE TESTER LINE NUMBER #1

SHIFT 2B

DATE 11-28-84

FULL LENGTHS, ½'s OR ¼'s								RANDOM LENGTHS				
☒ P/B ☐ P/E		☐ P/B ☐ P/E		☐ P/B ☐ P/E		☐ P/B ☐ P/E				☐ P/B ☐ P/E		☐ P/B ☐ P/E
TIME TO STOCK	SIZE & CLASS 10"/50 131 NO. OF PCS.	TIME TO STOCK	SIZE & CLASS NO. OF PCS.	TIME TO STOCK	SIZE & CLASS NO. OF PCS.	TIME TO STOCK	SIZE & CLASS NO. OF PCS.	LENGTH	TIME TO STOCK	SIZE & CLASS NO. OF PCS.	TIME TO STOCK	SIZE & CLASS NO. OF PCS.
1136	6											
1140	6											
1142	6											
1144	6											
1146	6											
1148	6											
1150	6											
1153	6											
1156	6											
1159	6											
1202	6											
1206	6											
1208	6											
1210	6											
1213	6											
1216	6											
1220	6 ok											
TOTAL PIECES	102											
CS. CONV. TO FEET	1326											

5:30 - 12:30

DELAY TIME DETAIL

CAUSE OF DELAY	MINUTES	CODE
TOTAL TIME	NET TIME	TOTAL DELAY MINUTES →

PREPARED BY Mike Clark

APPROVED BY [signature]

CTD016571

02-22-0003 3/75 (P-971)

FINI ING LINE PRODUCTION RE. ORT

PIPE TESTER LINE NUMBER #243

SHIFT 1A

DATE 11-28-84

FULL LENGTHS (½'s OR ¼'s)

☐P/B (17) ☑P/E		☐P/B (91) ☐P/E		☐P/B (70) ☑P/E		☐P/B ☐P/E	
TIME TO STOCK	SIZE & CLASS 10"150 ½Fm NO. OF PCS.	TIME TO STOCK	SIZE & CLASS 10"150 ½mEo NO. OF PCS.	TIME TO STOCK	SIZE & CLASS 10"150 ¼mEo NO. OF PCS.	TIME TO STOCK	SIZE & CLASS NO. OF PCS.
11:03	6	11:30	6	2:23	6		
11:12	6	11:37	6	2:37	6		
11:23	5	11:45	6	2:48	6		
		11:53	6	2:56	6		
		12:33	6	3:00	6		
		12:42	6	3:08	6		
		12:52	6	3:14	6		
		12:58	6	3:23	6		
		1:06	6	3:32	6		
		1:19	6	3:37	6		
		1:26	6	3:44	6		
		1:35	6	3:48	4		
		1:43	6				
		1:48	6				
		1:58	(7)				
TOTAL PIECES	17		91		70		
B.CONV. FEET	110.50		591.50		227.50		

RANDOM LENGTHS

LENGTH	TIME TO STOCK	☐P/B ☐P/E SIZE & CLASS NO. OF PCS.	TIME TO STOCK	☐P/B ☐P/E SIZE & CLASS NO. OF PCS.

DELAY TIME DETAIL

CAUSE OF DELAY	MINUTES	CODE

TOTAL TIME | NET TIME | TOTAL DELAY MINUTES → ☒

PREPARED BY B. Brooke

APPROVED BY Lubi

CTD016572

02-22-0003 3/75 (P-971)

FIN 1ING LINE PRODUCTION RE ORT

PIPE TESTER LINE NUMBER 1F

SHIFT 1D

DATE 11-28-84

FULL LENGTHS, ½'s OR ¼'s 528

☐ P/B ☐ P/E		☐ P/B ☐ P/E		☐ P/B ☐ P/E		☐ P/B ☐ P/E	
TIME TO STOCK	SIZE & CLASS 13" NO. OF PCS.	TIME TO STOCK	SIZE & CLASS 13" NO. OF PCS.	TIME TO STOCK	SIZE & CLASS 13" NO. OF PCS.	TIME TO STOCK	SIZE & CLASS 17" NO. OF PCS.
9:05	6	10:34	6	11:58	6	2:00	6
9:10	6	10:38	6	12:35	6	2:05	6
9:15	6	10:42	6	12:39	6	2:08	6
9:20	6	10:46	6	12:43	6	2:11	6
9:24	6	10:50	6	12:46	6	2:15	6
9:28	6	10:54	6	12:49	6	2:19	6
9:31	6	10:58	6	12:54	6	2:23	6
9:34	6	11:02	6	12:59	6	2:27	6
9:38	6	11:06	6	1:04	6	2:31	6
9:42	6	11:10	6	1:09	6	2:35	6
9:45	6	11:14	6	1:14	6	2:39	6
9:48	6	11:18	6	1:19	6	2:43	6
9:53	6	11:22	6	1:23	6	2:47	6
9:58	6	11:26	6	1:27	6	2:51	6
10:03	6	11:29	6	1:30	6	2:55	6
10:08	6	11:31	6	1:33	6	2:59	6
10:12	6	11:35	6	1:36	6	3:25	6
10:16	6	11:39	6	1:39	6	3:30	6
10:19	6	11:42	6	1:42	6	3:33	6
10:22	6	11:45	6	1:45	6	3:36	6
10:26	6	11:49	6	1:50	6	3:39	6
10:30	6	11:53	6	1:55	6	3:41	6
TOTAL PIECES							528
PCS. CONV. TO FEET							6864

LENGTH	TIME TO STOCK	☐ P/B ☐ P/E SIZE & CLASS NO. OF PCS.	TIME TO STOCK	☐ P/B ☐ P/E SIZE & CLASS NO. OF PCS.

9:00 — 3:41

DELAY TIME DETAIL QC 111

CAUSE OF DELAY	MINUTES	CODE

TOTAL TIME | NET TIME | TOTAL DELAY MINUTES →

PREPARED BY RSC

APPROVED BY

CTD016573

02-22-0003 3/75 (P-971)

FIN JING LINE PRODUCTION RE. ORT

PIPE TESTER
LINE NUMBER 10

SHIFT 10

DATE 11-28-54

FULL LENGTHS, ½'s OR ¼'s

48

30

P/B ☑	P/E ☐	P/B ☐	P/E ☐	P/B ☐	P/E ☐	P/B ☑	P/E ☐
TIME TO STOCK	SIZE & CLASS 12-150 13' / NO. OF PCS.	TIME TO STOCK	SIZE & CLASS / NO. OF PCS.	TIME TO STOCK	SIZE & CLASS / NO. OF PCS.	TIME TO STOCK	SIZE & CLASS 12-150 ½med / NO. OF PCS.
3:45	6					4:35	6
3:49	6					4:45	6
3:54	6					4:55	6
3:59	6					5:05	6
4:02	6					5:15	6
4:05	6						
4:10	6						
4:15	6						
TOTAL PIECES	48 ✓						30 ✓
PCS. CONV. TO FEET	624						195

3:45 – 5:30

RANDOM LENGTHS

9

P/B ☑	P/E ☐	P/B ☐	P/E ☐
LENGTH	TIME TO STOCK	SIZE & CLASS 12-150 Random / NO. OF PCS.	TIME TO STOCK	SIZE & CLASS / NO. OF PCS.
12'6"	4:20	6 3		
	4:25			
TOTAL PIECES		9 ✓		
PCS. CONV. TO FEET		113.40		

DELAY TIME DETAIL

CAUSE OF DELAY	MINUTES	CODE

TOTAL TIME | NET TIME | TOTAL DELAY MINUTES →

PREPARED BY RDC

APPROVED BY

CTD016574

02-22-0003 3/75 (P-971)

FINI. ING LINE PRODUCTION REPORT

PIPE TESTER LINE NUMBER #3 | SHIFT 1A | DATE 11-28-84

FULL LENGTHS. ½'s OR ¼'s

☐P/B (4) ☐P/E		☐P/B (45) ☐P/E		☐P/B (2) ☐P/E		☐P/B ☐P/E	
TIME TO STOCK	SIZE & CLASS 16"150 1/2 MFG NO OF PCS	TIME TO STOCK	SIZE & CLASS 16"100 NO OF PCS.	TIME TO STOCK	SIZE & CLASS 16"100 1/2 MFG NO OF PCS.	TIME TO STOCK	SIZE & CLASS NO OF PCS.
7:50	4	8:45	5	9:46	2		
		8:55	5				
		9:00	5				
		9:05	5				
		9:12	5				
		9:21	5				
		9:28	5				
		9:34	5				
		9:42	5				
TOTAL PIECES	4		45		2		
CONV. FEET	26		585		13		

RANDOM LENGTHS

LENGTH	TIME TO STOCK	☐P/B ☐P/E SIZE & CLASS NO. OF PCS	TIME TO STOCK	☐P/B ☐P/E SIZE & CLASS NO OF PCS

9:30

DELAY TIME DETAIL

CAUSE OF DELAY	MINUTES	CODE
QC - 16"100-1		

"A" Finish Line

TOTAL TIME | NET TIME | TOTAL DELAY MINUTES →

PREPARED BY B. Brock

APPROVED BY

CTD016575

02-22-0003 3/75 (P-971)

FINISHING LINE PRODUCTION REPORT

PIPE TESTER LINE NUMBER #243 | SHIFT 2B | DATE 11-28-84

FULL LENGTHS. ½'s OR ~~¼'s~~

☐ P/B 33 ☑ P/E		☐ P/B ☑ P/E		☐ P/B ☑ P/E		☐ P/B ☐ P/E	
TIME TO STOCK	SIZE & CLASS 10"150 ¼ MED NO OF PCS.	TIME TO STOCK	SIZE & CLASS 10"200 ¼ MED NO OF PCS.	TIME TO STOCK	SIZE & CLASS 10"200 ½ MED NO OF PCS.	TIME TO STOCK	SIZE & CLASS NO. OF PCS.
410	6	450	6	530	2		
415	6	455	6				
420	6	505	6				
425	6	510	6				
430	6	515	6				
435	3	520	6				
←		525	4				
TOTAL PIECES	33		40		2		
PCS. CONV TO FEET	107.25		130		13		

RANDOM LENGTHS

LENGTH	TIME TO STOCK	☐ P/B ☐ P/E SIZE & CLASS NO OF PCS	TIME TO STOCK	☐ P/B ☐ P/E SIZE & CLASS NO OF PCS

P.T. 4:00 - 5:30

DELAY TIME DETAIL

CAUSE OF DELAY	MINUTES	CODE

CTD016576

TOTAL TIME	NET TIME	TOTAL DELAY MINUTES →	☒

PREPARED BY Mike Clark

APPROVED BY D L Foster

HYDRO TEST WORK SHEE.

☐ FITTINGS ☐ CO ING SAW
☐ BORING MILL ☒ RANDOM SAW

DATE 11-29-84
SHIFT 1st

Date of MFG.	Pipe No.	Furnish & Crew	Bursting Pressure	Position	Size & Class	Description	Good Pieces	Rejects	Total Pieces
					12"-150	MFG/12	9		
					12"-150	MFG/14	4		
					10"-150	Rand	49		
					10"-150	MEG/12	14		
					10"-150	MEG/14	11		
					16"-FT40	Rand	5		
					16"-FT40	MEG/12	8		
					16"-FT40	MEG/14	5		
					8"-200	FM/12	64		

OPERATION: Random Saw

DAILY PRODUCTION

Time Started: 7:30
Time Finished: 4:00

Size & Class	Description	Good Inventory Pieces	Index Standard Pieces/Hr.	Index Hours Earned	Reject Pieces	Total Pieces

Total Index Hours Earned: [ ]

Total Scheduled Hours: 8.00

Production Index: [ ]

Delay Time	Total	Cause of Delay
		Test Pipe R. 4 sets B. 11 8"-200 FM Stock 32 sticks 1 tray

CTD016577

Signed: R.C. Rodriguez Signed: _____ Approved: Johnny Slovak

HYDRO TEST WORK SHEET

☐ FITTINGS ☐ COUPLING SAW DATE 11-29-84
☐ BORING MILL ☐ RANDOM SAW SHIFT 1st

Date of MFG.	Pipe No.	Furnish & Crew	Bursting Pressure	Position	Size & Class	Description	Good Pieces	Rejects	Total Pieces	
					16" 200	½ FM	15	3	18	WIP
					8" 200	½ FM	44	0	44	WIP

DAILY PRODUCTION

OPERATION: Gauge & Small Fitg

Time Started: 7:30
Time Finished: 4:00

Size & Class	Description	Good Inventory Pieces	Index Standard Pieces/Hr.	Index Hours Earned	Reject Pieces	Total Pieces
8" 200	½ FM.	44	7.75	5.68		
	Change over 8" 200 ½ FM.			.45		

Total Index Hours Earned: 6.13

Total Scheduled Hours: 7.00

Production Index: 88%

Delay Time	Total	Cause of Delay
7:30-8:50	20 min.	16" setup
3:45-4:00	15 min.	cleanup

CTD016578

Signed: [signature] Signed: _____ Approved: [signature]

HYDRO TEST WORK SHEET

☐ FITTINGS ☐ COUPLING SAW DATE 11-29-77
☑ BORING MILL ☐ RANDOM SAW SHIFT

Date of MFG.	Pipe No.	Furnish & Crew	Bursting Pressure	Position	Size & Class	Description	Good Pieces	Rejects	Total Pieces
					16" 150	C/S	277	3	280

OPERATION: BM # 4

DAILY PRODUCTION

Time Started: 730
Time Finished: 430

Size & Class	Description	Good Inventory Pieces	Index Standard Pieces/Hr.	Index Hours Earned	Reject Pieces	Total Pieces
16" 150.	C/S	277	56.	495	3	280

Total Index Hours Earned	495	Total Scheduled Hours	8.00	Production Index	62%

Delay Time	Total	Cause of Delay
	25	Sharpen tools
	35	wait on coupling stock
	15	clean up

CTD016579

Signed: Dusty Coaster Signed: _____ Approved: Johnny Hook

HYDRO TEST WORK SHEET

☐ FITTINGS ☐ COL NG SAW DATE 11-29-84
☑ BORING MILL ☐ RANDOM SAW SHIFT 1st

Date of MFG.	Pipe No.	Furnish & Crew	Bursting Pressure	Position	Size & Class	Description	Good Pieces	Rejects	Total Pieces
					10" 150	CLS	1746	46	1792

OPERATION: B.M.# 1-3

DAILY PRODUCTION

Time Started: 7:30
Time Finished: 4:00

Size & Class	Description	Good Inventory Pieces	Index Standard Pieces/Hr.	Index Hours Earned	Reject Pieces	Total Pieces
10"150	C/S	1746	276	6.33	46	1792

Total Index Hours Earned: 6.33
Total Scheduled Hours: 8.00
Production Index: 79%

Delay Time	Total	Cause of Delay
	15	Sharpen tools
	15	Sharpen tools
	15	Clean up
	15	Clean up

CTD016580

Signed: C.B. Signed: K.B. Approved: Johnny Slovak

HYDRO TEST WORK SHEET

☐ FITTINGS ☐ CO ING SAW DATE 11-28-86
☐ BORING MILL ☐ RANDOM SAW SHIFT 1st

Date of MFG.	Pipe No.	Furnish & Crew	Bursting Pressure	Position	Size & Class	Description	Good Pieces	Rejects	Total Pieces
					10" 150	C/S	76	1	77
					8"S" 150	C/S	6	0	6

OPERATION: Cut-off

DAILY PRODUCTION

Time Started: 230
Time Finished: 5 PM

Size & Class	Description	Good Inventory Pieces	Index Standard Pieces/Hr.	Index Hours Earned	Reject Pieces	Total Pieces

Total Index Hours Earned:

Total Scheduled Hours: 8.00

Production Index:

Delay Time	Total	Cause of Delay
1:00 15	1:00 15	Boring Mill wait for Cut

CTD016581

Signed: [illegible] Signed: _____ Approved: Johnny Slovak

HYDRO TEST WORK SHEET

☐ FITTINGS ☐ COL NG SAW DATE 11-29-84
☐ BORING MILL ☐ RANDOM SAW SHIFT 1st

Date of MFG.	Pipe No.	Furnish & Crew	Bursting Pressure	Position	Size & Class	Description	Good Pieces	Rejects	Total Pieces
					8"150	¼FM	228	16	244

OPERATION: ¼FM LINE

DAILY PRODUCTION

Time Started: 7:30
Time Finished: 4:00

Size & Class	Description	Good Inventory Pieces	Index Standard Pieces/Hr.	Index Hours Earned	Reject Pieces	Total Pieces
8"150	¼FM.	228	38	6.00	16	244

Total Index Hours Earned: 6.00

Total Scheduled Hours: 5.25 (2.75)

Production Index: 114%

Delay Time	Total	Cause of Delay
10:00 to 10:35	35 mins	Clear out pit.
1:00 3:45	2:45 min	Work on Lathe MAINT- Feed in gears.

CTD016582

Signed: [signature] Signed: B Stovall Approved: Johnny Stovall

HYDRO TEST WORK SHEET

☐ FITTINGS ☐ COL NG SAW
☐ BORING MILL ☐ RANDOM SAW

DATE 11-29-84
SHIFT 1A

Date of MFG.	Pipe No.	Furnish & Crew	Bursting Pressure	Position	Size & Class	Description	Good Pieces	Rejects	Total Pieces
11-27-84	176	AK17D-3C	500	Ø	10"150	13' P/B	439	22	461
					10"150	13' P/E	20	—	20
					10"150	Randoms P/B	50	19	69

DAILY PRODUCTION

OPERATION: #1

Time Started: 7:30
Time Finished: 1:50

Size & Class	Description	Good Inventory Pieces	Index Standard Pieces/Hr.	Index Hours Earned	Reject Pieces	Total Pieces
10"-150	13' P/B	439 ✓	120	3.66	22	461
10"-150	12' P/B	50 ✓	120	.42	19	69
10"-150	13' P/E SYT-UP	20 ✓	—	.75	—	20
8"-150	13' P/E	20 ✓	—	—	—	20
8"-150	13' P/B OR-UL	72 ✓	141	.51	2	74

Total Index Hours Earned: 5.34 (7.55)
Total Scheduled Hours: 6.5 (9.25)
(.25) Production Index: 82% (82%)

Delay Time	Total	Cause of Delay
7:35-7:45	10	change tools
10:40-10:50	10	lathe-(M)
11:00-11:45	45	3 layers Boundless P.E.
1:10-1:15	5	change too 12' randoms

CTD016583

Signed: Leon Semenberg Signed: _____ Approved: [signature]

HYDRO TEST WORK SHEET

☐ FITTINGS ☐ COU NG SAW
☐ BORING MILL ☐ RANDOM SAW

DATE 11-29-84
SHIFT 1A

Date of MFG.	Pipe No.	Furnish & Crew	Bursting Pressure	Position	Size & Class	Description	Good Pieces	Rejects	Total Pieces
					8" 150	13' P/B	72	2	74
					U.L.	O/R			
					8" 150	13' P/E	20	—	20

OPERATION: #1

DAILY PRODUCTION

Time Started: 1:50
Time Finished: 4:00

Size & Class	Description	Good Inventory Pieces	Index Standard Pieces/Hr.	Index Hours Earned	Reject Pieces	Total Pieces

Total Index Hours Earned: _____ Total Scheduled Hours: _____ Production Index: _____

Delay Time	Total	Cause of Delay
1:55-2:25	20	change line (1) 8" 150
2:25-2:40	15	lathe not set up
3:00-3:15	15	working on flex (M) Pressure Trouble
3:45-4:00	15	clean up
	30	EXPORT Bundles

CTD016584

Signed: [signature] Signed: _____ Approved: [signature]

HYDRO TEST WORK SHEET

☐ FITTINGS ☐ COUPLING SAW
☐ BORING MILL ☐ RANDOM SAW

DATE 11-29-84
SHIFT 2B

Date of MFG.	Pipe No.	Furnish & Crew	Bursting Pressure	Position	Size & Class	Description	Good Pieces	Rejects	Total Pieces
11/27	24/43	AK15D1A	525	F	8" 150	13' P/B O/R	312	41	353
11/26	47	AK17D-1A	525	F	"	ULL. LABLES			

OPERATION: #1 Line

DAILY PRODUCTION

Time Started: 4:00
Time Finished: 6:45

Size & Class	Description	Good Inventory Pieces	Index Standard Pieces/Hr.	Index Hours Earned	Reject Pieces	Total Pieces
8" 150	13' P/B OR OL	312	141	2.21	41	3.53

Total Index Hours Earned: 2.21

Total Scheduled Hours: 2.75

Production Index: 80%

Delay Time	Total	Cause of Delay
6:45		CHANGED TO LINE #3 16" 150

CTD016585

Signed: Ronald Ince Signed: _____ Approved: [signature]

HYDRO TEST WORK SHEET

☐ FITTINGS ☐ COL NG SAW
☐ BORING MILL ☐ RANDOM SAW

DATE 11-29-84
SHIFT 2B

Date of MFG.	Pipe No.	Furnish & Crew	Bursting Pressure	Position	Size & Class	Description	Good Pieces	Rejects	Total Pieces
1/27	174	A122C-3E	525	F/C	16" 150	13' P/B	200	8	208
"	113	" "	"	O/C	"				

OPERATION: Pipe #3

DAILY PRODUCTION

Time Started: 6:45
Time Finished: 12:30

Finish Line

Size & Class	Description	Good Inventory Pieces	Index Standard Pieces/Hr.	Index Hours Earned	Reject Pieces	Total Pieces
16" 150	13' P/B	200	50		8	208

Total Index Hours Earned: 4.00
Total Scheduled Hours: 5.00
Production Index: 80%

Delay Time	Total	Cause of Delay
	.15	MAINT. A.T.C.

CTD016586

Signed: Ronald Smit Signed: _____ Approved: [signature]

HYDRO TEST WORK SHEET

☐ FITTINGS ☐ COUPLING SAW
☐ BORING MILL ☐ RANDOM SAW

DATE 11-29-84
SHIFT 10

Date of MFG.	Pipe No.	Furnish & Crew	Bursting Pressure	Position	Size & Class	Description	Good Pieces	Rejects	Total Pieces
11-27	201	AL22B+10	300	Ø	16" FT40	13' PIB	20 ✓	10	30
11-27	202	AL22C-10	250	Ø	16" FT40				
11-27	207	AL22C-10	300	Ø	16" FT40				
~~From gard 15"100 13' Rac Class 150~~					~~16" FT40~~	~~13' PIB~~	~~10 PCS~~		10
		R.E.H.			16" FT40	Random	2 ✓	3	5
					16" 150	13' PIB	175 ✓	5	180

12 1

OPERATION: 3#

DAILY PRODUCTION

Time Started: 9:45
Time Finished: 4:00

Size & Class	Description	Good Inventory Pieces	Index Standard Pieces/Hr.	Index Hours Earned	Reject Pieces	Total Pieces
	Set up			.75		
16"	150	175 ✓	50	3.25		

Total Index Hours Earned: 4.00 (8.00)
Total Scheduled Hours: 4.00 (9.00)
Production Index: 100 % (89%)

Delay Time	Total	Cause of Delay
11:15-11:35	20 min	Changing over to 16" 150 13'

Signed: _____ Signed: _____ Approved: _____

CTD016587

HYDRO TEST WORK SHEET

☐ FITTINGS ☐ COU NG SAW
☐ BORING MILL ☐ RANDOM SAW

DATE 11-28-84
SHIFT 1C

Date of MFG.	Pipe No.	Furnish & Crew	Bursting Pressure	Position	Size & Class	Description	Good Pieces	Rejects	Total Pieces
					12"150	½ meo	17	47	64

OPERATION: 1#

DAILY PRODUCTION

Time Started: 7:30
Time Finished: 4:00

Size & Class	Description	Good Inventory Pieces	Index Standard Pieces/Hr.	Index Hours Earned	Reject Pieces	Total Pieces

Total Index Hours Earned ☐ Total Scheduled Hours ☐ Production Index ☐

Delay Time	Total	Cause of Delay
		"B" Pipe "B" Finish Line D.O. Less than 2hr prep. No index

Signed: _____ Signed: _____ Approved: _____

CTD016588

HYDRO TEST WORK SHEET

☐ FITTINGS ☐ COL NG SAW
☐ BORING MILL ☐ RANDOM SAW

DATE 11 2 84
SHIFT 1ST

Date of MFG.	Pipe No.	Furnish & Crew	Bursting Pressure	Position	Size & Class	Description	Good Pieces	Rejects	Total Pieces
					8" 150	CS	125	0	125
					No Rings	EC	125	0	125
							125	1	126
							125	0	125
							125	0	125
							100	0	100
							100	1	101
							125	3	128
							125	4	129
							125	2	127
							100	0	100

OPERATION: Small Coupling Tester

DAILY PRODUCTION

Time Started: 1130 AM
Time Finished: 400 PM

Size & Class	Description	Good Inventory Pieces	Index Standard Pieces/Hr.	Index Hours Earned	Reject Pieces	Total Pieces
8" 150	CS	1300	275	4.73	11	1311

Total Index Hours Earned: 4.73
Total Scheduled Hours: 4.00
Production Index: 118

Delay Time	Total	Cause of Delay
		825 8" 150 No Rings

CTD016589

Signed: [signature] Signed: W.B. Approved: Johnny Slovak

HYDRO TEST WORK SHEET

☐ FITTINGS ☐ COUPLING SAW DATE 11-29-84
☐ BORING MILL ☐ RANDOM SAW SHIFT 1st

Date of MFG.	Pipe No.	Furnish & Crew	Bursting Pressure	Position	Size & Class	Description	Good Pieces	Rejects	Total Pieces
					16/150	C/S	24	0	24
							24	0	24
							17	0	17
							425	7	432

OPERATION: Large Coupling Lathe DAILY PRODUCTION

Time Started: 730 AM.
Time Finished: 1130 AM

Size & Class	Description	Good Inventory Pieces	Index Standard Pieces/Hr.	Index Hours Earned	Reject Pieces	Total Pieces

Total Index Hours Earned | Total Scheduled Hours | Production Index

Delay Time	Total	Cause of Delay

CTD016590

Signed: [signature] Signed: WB Approved: [signature]

HYDRO TEST WORK SHEET

☐ FITTINGS ☐ COUPLING SAW DATE 11-29-84
☐ BORING MILL ☐ RANDOM SAW SHIFT 1ST

Date of MFG.	Pipe No.	Furnish & Crew	Bursting Pressure	Position	Size & Class	Description	Good Pieces	Rejects	Total Pieces
					16" 150	C S	24	4	28
							24	0	24
							24	0	24
							24	0	24
							24	0	24
							24	0	24
							24	0	24
							24	0	24
							24	0	24
							24	0	24
							24	0	24
							24	0	24
						—	24	1	25
							24	0	24
							24	0	24
							24	2	26

OPERATION: Large Coupling Line DAILY PRODUCTION

Time Started: 730 AM
Time Finished: 1100 AM

Size & Class	Description	Good Inventory Pieces	Index Standard Pieces/Hr.	Index Hours Earned	Reject Pieces	Total Pieces
16" 150	CHANGE OVER From 16" 200 C/S	425	160	.50 2.66	7	432

Total Index Hours Earned	Total Scheduled Hours	Production Index
3.16	3.50	90%

Delay Time	Total	Cause of Delay
	30 min	CHANGE OVER FROM 16" 200 TO 16" 150

CTD016591

Signed: W. Y. Chan Signed: WB Approved: Johnny Stovall

HYDRO TEST WORK SHEET

☑ FITTINGS ☐ COL NG SAW DATE 11-29-84
☐ BORING MILL ☐ RANDOM SAW SHIFT 1ST

Date of MFG.	Pipe No.	Furnish & Crew	Bursting Pressure	Position	Size & Class	Description	Good Pieces	Rejects	Total Pieces
					8" 200 IPS	2" NPT	23	-	23
					6" 200 IPS	1½ NPT	8	-	8

OPERATION: Fittings

DAILY PRODUCTION

Time Started: 11:30
Time Finished: 4:00

Size & Class	Description	Good Inventory Pieces	Index Standard Pieces/Hr.	Index Hours Earned	Reject Pieces	Total Pieces

Total Index Hours Earned: [ ]
Total Scheduled Hours: 4.0
Production Index: [ ]

Delay Time	Total	Cause of Delay

CTD016592

Signed: T. Brown Signed: _____ Approved: Johnny Woods

02-22-0003 3/75 (P-971)

FINISHING LINE PRODUCTION REPORT

PIPE TESTER LINE NUMBER #1

SHIFT 2B

DATE 11-29-84

FULL LENGTHS, ½'s OR ¼'s								RANDOM LENGTHS				
☑ P/B ☐ P/E		☑ P/B ☐ P/E		☐ P/B ☐ P/E		☐ P/B ☐ P/E				☐ P/B ☐ P/E		☐ P/B ☐ P/E
TIME TO STOCK	SIZE & CLASS 8"150 O/R U.L. NO. OF PCS.	TIME TO STOCK	SIZE & CLASS 8"150 12" CR/ML NO. OF PCS.	TIME TO STOCK	SIZE & CLASS NO. OF PCS.	TIME TO STOCK	SIZE & CLASS NO. OF PCS.	LENGTH	TIME TO STOCK	SIZE & CLASS NO. OF PCS.	TIME TO STOCK	SIZE & CLASS NO. OF PCS.
405	12	630	12									
410	12	635	12									
415	12	640	12									
420	12	645	12									
425	12											
435	12											
440	12											
445	12											
450	12											
455	12											
500	12											
505	12											
510	12											
515	12											
520	12											
530	12											
540	12											
550	12											
600	12											
615	12											
620	12											
625	12											
TOTAL PIECES			*312									
PCS. CONV. TO FEET			4056									

P.T. 4.00 - 6:45

DELAY TIME DETAIL

CAUSE OF DELAY	MINUTES	CODE
QC - 11		
Scrap Cpls - 1111		
TOTAL TIME / NET TIME / TOTAL DELAY MINUTES →		

PREPARED BY [signature]

APPROVED BY [signature]

CTD016593

02-22-0003 3/75 (P-971)

FINISHING LINE PRODUCTION REPORT

PIPE TESTER LINE NUMBER 1/4 Fin Line | SHIFT 1A | DATE 11-29-84

228 FULL LENGTHS, ½'s OR ¼'s

TIME TO STOCK	P/B ☑ P/E ☐ SIZE & CLASS 1¼ Fin 8' 150 NO. OF PCS.	P/B ☐ P/E ☐ TIME TO STOCK	SIZE & CLASS NO. OF PCS.	P/B ☐ P/E ☐ TIME TO STOCK	SIZE & CLASS NO. OF PCS.	P/B ☐ P/E ☐ TIME TO STOCK	SIZE & CLASS NO. OF PCS.
3:20	12						
3:40	12						
3:55	12						
2:10	12						
2:30	12						
7:45	12						
2:00	12						
050	12						
105	12						
4:30	12						
1:40	12						
1:55	12						
2:40	12						
2:55	12						
3:20	12						
3:50	12						
2:20	12						
2:50	12						
3:30	12						
TOTAL PIECES	228						
PCS. CONV. TO FEET	741						

RANDOM LENGTHS

LENGTH	TIME TO STOCK	P/B ☐ P/E ☐ SIZE & CLASS NO. OF PCS.	TIME TO STOCK	P/B ☐ P/E ☐ SIZE & CLASS NO. OF PCS.

PT 7:30 – 4:00

DELAY TIME DETAIL

CAUSE OF DELAY	MINUTES	CODE
8" 150 STOCK	61	
TOTAL DELAY MINUTES →		☒

TOTAL TIME | NET TIME

PREPARED BY Albert Hannah

APPROVED BY Johnny Slovak

CTD016594

02-22-0003 3/75 (P-971)

FINISHING LINE PRODUCTION REPORT

PIPE TESTER LINE NUMBER # 1 | SHIFT 1A | DATE 11-29-89

FULL LENGTHS, ½'s OR ¼'s

☐ P/B 43 ☐ P/E		☐ P/B ☐ P/E		☐ P/B 72 ☐ P/E		☐ P/B 20 ☐ P/E	
TIME TO STOCK	SIZE & CLASS 10" 150 NO. OF PCS.	TIME TO STOCK	SIZE & CLASS NO. OF PCS.	TIME TO STOCK	SIZE & CLASS 8" 150 OR UL. NO. OF PCS.	TIME TO STOCK	SIZE & CLASS 8" 150 NO. OF PCS.
12:43	6			3:20	12	2:55	12
12:46	6			3:26	12	3:04	8
12:49	6			3:31	12		
12:53	6			3:36	12		
12:57	6			3:42	12		
1:01	6			3:48	12		
1:06	7						
TOTAL PIECES	43			* 72		20	
PCS. CONV. TO FEET	559			936		260	

RANDOM LENGTHS

LENGTH	TIME TO STOCK	☐ P/B ☐ P/E SIZE & CLASS NO. OF PCS.	TIME TO STOCK	☐ P/B ☐ P/E SIZE & CLASS NO. OF PCS.

DELAY TIME DETAIL

CAUSE OF DELAY	MINUTES	CODE
QC pipe 8" 150 - 1		
SCRAP cpls 8" 150 -		
TOTAL TIME / NET TIME / TOTAL DELAY MINUTES →		☒

PREPARED BY L Brooks

APPROVED BY

CTD016595

02-22-0003 3/75 (P-971)

FINISHING LINE PRODUCTION REPORT

PIPE TESTER LINE NUMBER #1 | SHIFT #1A | DATE 11-29-84

396

FULL LENGTHS. ½'s OR ¼'s

☑ P/B ☐ P/E

TIME TO STOCK	SIZE & CLASS 10"150 13'	NO. OF PCS.
7:34	6	
7:40	6	
7:45	6	
7:50	6	
7:53	6	
7:56	6	
7:58	6	
8:05	6	
8:08	6	
8:11	6	
8:14	6	
8:18	6	
8:21	6	
8:25	6	
8:29	6	
8:32	6	
8:39	6	
8:43	6	
8:46	6	
8:49	6	
8:52	6	
8:55	6	
TOTAL PIECES		
CU. CONV. TO FEET		

☐ P/B ☐ P/E

TIME TO STOCK	SIZE & CLASS 10"150	NO. OF PCS.
8:58	6	
9:01	6	
9:04	6	
9:08	6	
9:11	6	
9:16	6	
9:19	6	
9:21	6	
9:24	6	
9:28	6	
9:32	6	
9:35	6	
9:38	6	
9:42	6	
9:46	6	
9:49	6	
9:53	6	
9:56	6	
10:00	6	
10:15	6	
10:18	6	
10:21	6	

☐ P/B ☐ P/E

TIME TO STOCK	SIZE & CLASS 10"150	NO. OF PCS.
10:24	6	
10:27	6	
10:30	6	
10:33	6	
10:36	6	
10:39	6	
10:42	6	
10:45	6	
10:48	6	
10:54	6	
10:58	6	
11:02	6	
11:43	6	
11:47	6	
11:50	6	
11:52	6	
11:55	6	
11:59	6	
12:31	6	
12:34	6	
12:37	6	
12:41	6	
396		
5148		

5 20 ☑ P/E

TIME TO STOCK	SIZE & CLASS 10"150 P/E	NO. OF PCS.
11:13	9	
11:28	9	
1:08	2	
20		
260		

RANDOM LENGTHS

☑ P/B ☐ P/E

LENGTH	TIME TO STOCK 50	SIZE & CLASS 10"150	NO OF PCS
12'	1:21		6
12'	1:25		6
12'	1:29		6
12'	1:43		6
12'	1:48		6
12'	1:51		6
12'	1:54		6
12'	1:59		8

02-22-0003 3/75 (P-971)

FIN HING LINE PRODUCTION R ORT

PIPE TESTER LINE NUMBER 1#

SHIFT 10

DATE 11-29-84

FULL LENGTHS, ½'s OR ¼'s								RANDOM LENGTHS				
☐ P/B ☐ P/E		☐ P/B ☐ P/E		☐ P/B ☐ P/E		☐ P/B ☐ P/E				☐ P/B ☐ P/E		☐ P/B ☐ P/E
TIME TO STOCK	SIZE & CLASS 7 2 1 1 5 8 / 6 pre 0 NO. OF PCS.	TIME TO STOCK	SIZE & CLASS NO. OF PCS.	TIME TO STOCK	SIZE & CLASS NO. OF PCS.	TIME TO STOCK	SIZE & CLASS NO. OF PCS.	LENGTH	TIME TO STOCK	SIZE & CLASS NO. OF PCS.	TIME TO STOCK	SIZE & CLASS NO. OF PCS.
7:45	6											
8:10	6											
8:30	5											
TOTAL PIECES	17											
CS. CONV. TO FEET	110.50											

7:30 - 8:30

DELAY TIME DETAIL

CAUSE OF DELAY	MINUTES	CODE
8" Pipe		
8" Finish Line		

TOTAL TIME | NET TIME | TOTAL DELAY MINUTES →

PREPARED BY RBC

APPROVED BY

CTD016597

02-22-0003 3/75 (P-971)

FINISHING LINE PRODUCTION REPORT

PIPE TESTER LINE NUMBER #3 | SHIFT 2B | DATE 11-29-84

200 FULL LENGTHS, ½'S OR ¼'S

P/B ☐ P/E		P/B ☐ P/E		P/B ☐ P/E		P/B ☐ P/E	
TIME TO STOCK	SIZE & CLASS 16" 150 13' NO OF PCS.	TIME TO STOCK	SIZE & CLASS 16" 150 13' NO OF PCS.	TIME TO STOCK	SIZE & CLASS NO OF PCS.	TIME TO STOCK	SIZE & CLASS NO. OF PCS.
200	5	1010	5				
205	5	1015	5				
210	5	1020	5				
215	5	1025	5				
220	5	1045	5				
225	5	1050	5				
235	5	1055	5				
800	5	1100	5				
835	5	1110	5				
840	5	1115	5				
845	5	1120	5				
850	5	1125	5				
900	5	1130	5				
905	5	1135	5				
910	5	1140	5				
915	5	1150	5				
920	5	1200	5				
930	5	1210	5				
940	5						
945	5						
950	5						
200	5						
TOTAL PIECES			200				
& CONV. FEET			2600				

RANDOM LENGTHS					
LENGTH	TIME TO STOCK	P/B ☐ P/E SIZE & CLASS NO OF PCS.	TIME TO STOCK	P/B ☐ P/E SIZE & CLASS NO OF PCS	

2T. 6:45 -

DELAY TIME DETAIL

CAUSE OF DELAY	MINUTES	CODE
QC PIPE 1		
B PIPE A FINISH LINE		
SCRAP COUP 1		

CTD016598

TOTAL TIME | NET TIME | TOTAL DELAY MINUTES →

PREPARED BY Mike Ouest

APPROVED BY

02-22-0003 3/75 (P-971)

FINISHING LINE PRODUCTION REPORT

PIPE TESTER LINE NUMBER 7th

Front yard 16"00 13" Reclassified

SHIFT 12 DATE 11-29-84

FULL LENGTHS, ½'s OR ¼'s 20 To 80 175

RANDOM LENGTHS

☑ P/B ☐ P/E TIME TO STOCK	SIZE & CLASS 16" F.T. 40 12' NO. OF PCS	☐ P/B ☐ P/E TIME TO STOCK	SIZE & CLASS 16" F.T. 40 12' NO. OF PCS	☑ P/B ☐ P/E TIME TO STOCK	SIZE & CLASS 16" 150 12' NO. OF PCS	☑ P/B ☐ P/E TIME TO STOCK	SIZE & CLASS 16" 150 12' NO. OF PCS	LENGTH	TIME TO STOCK	☑ P/B ☐ P/E SIZE & CLASS 16" F.T. 40 Random NO. OF PCS	TIME TO STOCK	☐ P/B ☐ P/E SIZE & CLASS NO. OF PCS
10:15	5	11:05	5	11:45	5	2:35	5	12'	11:10	2		
10:30	5	11:15	5	11:50	5	2:40	5					
10:45	5			12:00	5	2:45	5					
10:55	5			12:35	5	2:50	5					
				12:40	5	2:55	5					
				12:45	5	3:00	5					
				12:50	5	3:05	5					
				12:55	5	3:15	5					
				1:00	5	3:20	5					
				1:05	5	3:25	5					
				1:10	5	3:30	5					
				1:15	5	3:35	5					
				1:20	5	3:40	5					
				1:25	5							
				1:35	5							
				1:40	5							
				1:45	5							
				1:50	5							
				1:55	5							
				2:15	5							
				2:20	5							
				2:25	5							
TOTAL PIECES	20						175			2		
PCS. CONV. SQ. FEET	260						2275			24		

9:45 - 4:00

DELAY TIME DETAIL 16" F.T. 40 Q.C. 1

CAUSE OF DELAY	MINUTES	CODE
16" 150 - Q.C. 1		

TOTAL TIME | NET TIME | TOTAL DELAY MINUTES

PREPARED BY RAC | APPROVED BY

CTD016599