

SW 7183



June 3, 1998

U.S. Department of the Interior
Minerals Management Service
Gulf of Mexico OCS Region
1201 Elmwood Park Boulevard
New Orleans, LA 70123-2394
Attention: Alex Alvarado

Kelly



Re: High Island Block A-515-A Line,
OCS-G 7109, Seg. No. 7183

Dear Alex:

Please be informed that Tennessee Gas Pipeline Company completed the abandonment of the above referenced pipeline on May 29, 1998. The abandonment was completed as approved in Tennessee's abandonment procedures.

If you should have any questions regarding this matter, please call.

Sincerely,

KJC

K. J. Cheramie
Principal Property Rights Specialist

KJC:kjc

cc: M. Handley
D. Hamburger
File

SW 7183

*on map
6/17/98
18*

SN 7183

Judy
5/14/98

MAY 13 1998

In Reply Refer To: MS 5232

Mr. William M. Murray
Tennessee Gas Pipeline Company
Sugar Mill Point, 158 Regal Row
Houma, Louisiana 70360

Dear Mr. Murray:

Pursuant to 30 CFR 250.150(b), the relinquishment of the right-of-way grant associated with the following pipeline is hereby accepted effective May 12, 1998:

<u>Pipeline Segment No.</u>	<u>Size (inches)</u>	<u>Length (feet)</u>	<u>Service</u>	<u>From</u>	<u>To</u>
7183 (Right-of-Way OCS-G 7109)	6 5/8	9,357	Gas	Platform A Block A-515 High Island Area Lease OCS-G 4189	A 30-inch SSTI Block A-526 High Island Area Unleased

Your letter dated May 7, 1998, requests approval to permanently abandon in place approximately 9,357 feet (1.77 miles) of 6 5/8-inch pipeline designated as Segment No. 7183, and to relinquish in its entirety, Right-of-Way Grant OCS-G 7109 associated therewith.

Pursuant to 30 CFR 250.4(b), approval is hereby granted to abandon this pipeline, and in accordance with 30 CFR 250.159(c), the requirement that the pipeline be removed is hereby waived. However, in the future, should it be determined that this abandoned pipeline constitutes a hazard to navigation or commercial fishing operations or unduly interferes with the other uses of the Outer Continental Shelf, Tennessee Gas Pipeline Company shall be required to remove it.

Tennessee Gas Pipeline Company shall cease transporting hydrocarbons through this pipeline immediately and complete the aforementioned abandonment operations within 60 days of the date of this letter. Additionally, Tennessee Gas Pipeline Company shall submit written notification to this office within 30 days of the completion of the pipeline abandonment. The notification shall include the date the abandonment was completed and an indication that the abandonment was completed as approved.

Sincerely,

(orig. sgd.) A. P. Alvarado

Donald C. Howard
Regional Supervisor
Field Operations

bcc: 1502-01 Segment No. 7183, ROW OCS-G 7109 (MS 5232)
1502-01 ROW OCS-G 7109 (Microfilm) (MS 5033)
MS 5232 (Carto)

JGuidry:amm:5/13/98:Tennessee.183

on nup
5/20/98
K

**UNITED STATES GOVERNMENT
MEMORANDUM**

13-May-98

To: Leasing Activities Section, Adjudication Unit (MS 5421)
**From: Petroleum Engineer, Pipeline Unit, Office of Field Operations, Gulf
of Mexico OCS Region (MS 5232)**
Subject: Adjudication of Pipeline Right-of-Way Relinquishment

**Right-of-Way
Number:** OCS-G 7109
Applicant: Tennessee Gas Pipeline Company
Right-of-Way Length: 0 Miles

The subject relinquishment is attached for your adjudication. Any questions should be addressed to the undersigned. The pipeline proposed for abandonment is described as follows:

John Guidry

Attachment

Application dated May 7, 1998 (received May 12, 1998) w/attachment

Please initial, date, and return if this application meets all necessary criteria.

Initial LBU, Date 5-13-98



May 7, 1998

U.S. Department of the Interior
Minerals Management Service
Gulf of Mexico OCS Region
1201 Elmwood Park Boulevard
New Orleans, LA 70123-2394

Attention: Alex Alvarado



Re: Permanent Abandonment and Relinquishment
of Pipeline Right of Way, OCS-G 7109, Seg.
No. 7183, High Island Block A-515-A Line

Dear Alex:

In accordance with Title 30 CFR Part 250, Subpart J, 250.156 and 250.164, Tennessee Gas Pipeline Company hereby requests approval to permanently abandon and relinquish approximately 1.77 miles of six inch (6") pipeline in the High Island Area, Gulf of Mexico, Offshore Texas. Tennessee Gas Pipeline Company hereby requests approval to relinquish the pipeline right of way associated with this abandonment in its entirety. TGP is requesting this permanent abandonment and relinquishment based on the fact that there is no future use for this pipeline.

This pipeline extends from Samedan's High Island Block A-515-A platform to a sub-sea tie-in with ANR's 12" pipeline in High Island Block A-526.

The line will be purged with seawater to remove any materials which might be harmful to the environment prior to abandonment.

The procedure which will be used to abandon this facility is attached hereto. Also, enclosed are three copies of drawings which have been red-marked to show the proposed work, along with a copy of Samedan's letter requesting removal of the pipeline facilities.

Page 2
May 7, 1998

If you should require any additional information regarding this matter, please call this office.

Sincerely,

A handwritten signature in cursive script that reads "Gerald W. Thurston".

Gerald W. Thurston
Agent and Attorney-in-Fact

KJC:kjc

cc: M. Handley
D. Hamburger
J. Hernandez
C. Palazzo
File

SAMEDAN OIL CORPORATION
350 GLENBOROUGH, SUITE 240
HOUSTON, TEXAS 77067-3299
(281) 876-6250

February 26, 1998

El Paso Energy Corporation
1001 Louisiana
Houston, TX 77002

BEST AVAILABLE COPY

ATTN: Mr. Dan Hamburg

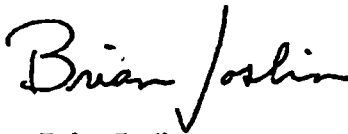
RE: Platform Abandonment
High Island A-515 A"

Gentlemen:

Samedan Oil Corporation is planning to decommission the "A" platform in block A-515 of the High Island area. Samedan has no future use for your pipeline and riser that service this platform. Samedan is requesting that El Paso Energy Corporation remove the pipeline and riser that connect the High Island A-515 "A" platform to ANR's 30" pipeline.

The High Island A-515 "A" platform is scheduled for removal as early as April 15, 1998. Please schedule the removal of your pipeline and riser accordingly.

Sincerely,



Brian Joslin
Project Engineer

CC: Richard Lietz, ANR Pipeline

BJ/cm

RECEIVED

FEB 27 1998

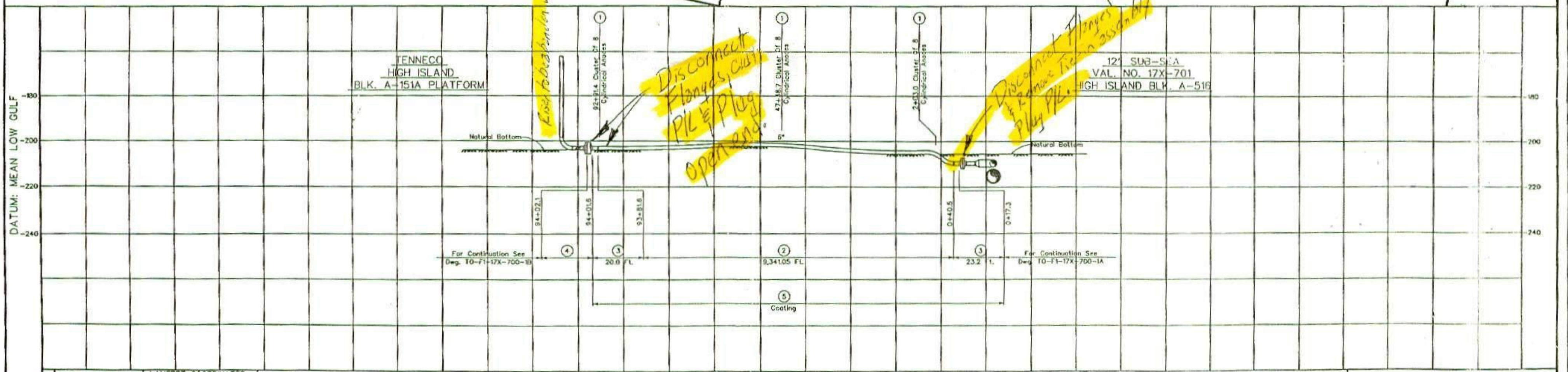
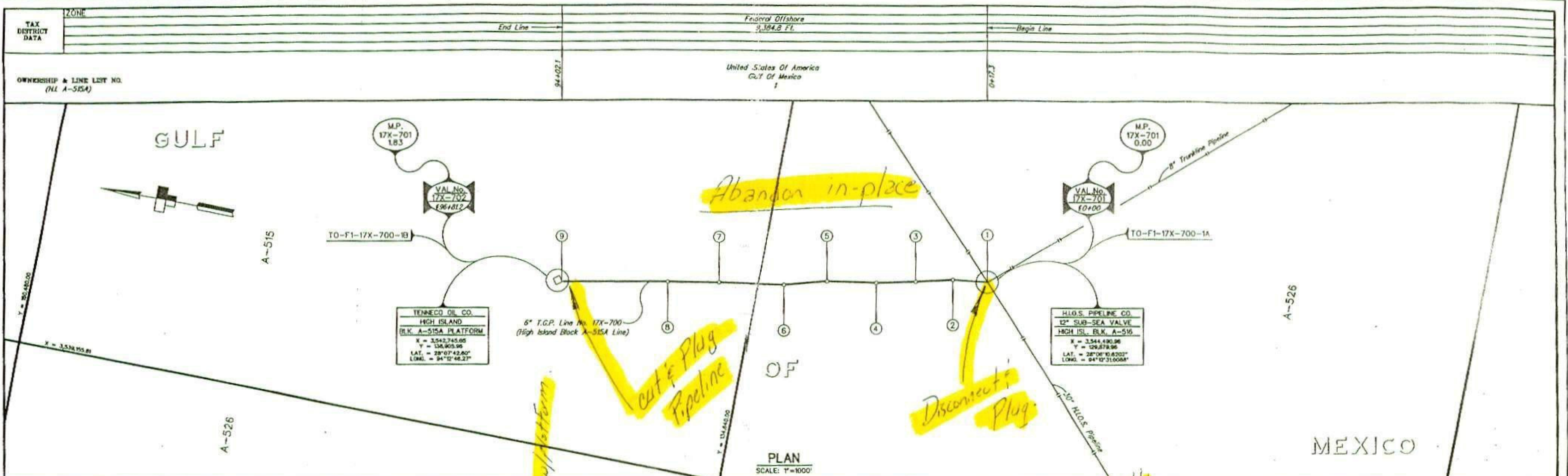
GENERAL OPERATING

ABANDONMENT PROCEDURE
High Island Block A-515A Line
Line Number 17X-700

- ♦ Project will be conducted in accordance with all applicable permits and regulations.
 - ♦ ANR representative to be on site when working over 30" HIOS pipeline.
1. Locate, uncover and partially close sub-sea Valve Number 17X-701 [*Valve G*] in High Island Block A-526. Insure 2" by-pass valves are closed [*Valves A,B, C*].
X: 3,544490.96 Y: 129,679.96
Lat: 28° 06' 10.6202" Long: 94° 12' 31.0088"
 2. Install 6.625" Poly pig in pig trap at Samedan's High Island Block A-515A Platform.
 3. Launch and run pig with high pressure water. 9,665 ft. of 6.625" O. D. x .375 w.t. pipe is approximately 14,800 gallons.
 4. When pig reaches closed sub-sea valve at assembly the pressure will spike, close MLV 17X-701 [*Valve G*].
 5. Bleed water pressure from line at High Island Block A-515A platform.
 6. Unbolt flanges at sub-sea tie-in station 00+4.2 (shown on drawing).
 7. Jet down 6" pipeline and move away from the side valve assembly. Allowing pipe to sag away from interconnect.
 8. Install 6" foreman plug in pipeline at abandoned end, previously jetted down in step 7. Ensure pipeline has 3 ft. of cover.
 9. Uncover and close ANR 12" valve [*Valve D*] over the 30" H.I.O.S. pipeline (downstream of Collet connector). Lock the 12" check valve [*Valve E*] in the open position.
 10. Uncover and ensure 12" Cameron ball valve [*Valve F*] is open (item number 28 on drawing). Open 2" valve [*Valve A*] on downstream side of MLV 17X-701 jumper. Ensure upstream valve [*Valve B*] is closed.
 11. Remove 2" blind flange from center ball valve [*Valve C*] on jumper. Open valve and blow down the 12" header over H.I.O.S. line. Dive Contractor to provide necessary equipment to remove hydrocarbons to surface and prevent any liquids from line to enter ocean.
 12. Remove 12" blind hub, item 33, using Cameron hydraulically operated actuator. This will allow water to fill the newly blown down section. Save blind hub for reconnection in Step 15.
 13. Unbolt all supports on section of sub sea tie in assembly to be removed to surface.
 14. Disconnect 12" pipeline section at 12" connector Collet, item 1, using Cameron hydraulically operated actuator. Remove 12" sub sea tie in assembly to surface.
 15. Replace 12" blind hub removed in Step 12 on the remaining 12" Collet connector.

ABANDONMENT PROCEDURE
High Island Block A-515A Line
Line Number 17X-700

16. Open 12" ANR valve [*Valve D*] allowing gas to fill the section. Unlock 12" check valve [*Valve E*].
17. Remove all clamps on 30" line that were supporting 12" header.
18. Replace cover over 30" ANR pipeline.
19. At High Island Block A-515A platform, unbolt flange at station 94+02.1. At station 94+15, cut line at base of platform.
20. Install 6" foreman plug at abandoned end, previously unbolted in step 10. Bury end to a minimum of 3 ft. of cover.
21. Cut pipeline riser at the working point elevation (+) 15' .



PL. BEARING & DISTANCE	LAMBERT COORDINATES
1 100° 27' 07" W 771.741	N 444,480.00
2 101° 50' 25" W 821.041	N 444,250.00
3 103° 51' 21" W 876.48	N 444,015.00
4 105° 03' 23" W 1080.55	N 443,784.00
5 106° 21' 05" W 1344.28	N 443,550.00
6 107° 47' 53" W 1407.37	N 443,312.00
7 109° 14' 32" W 1392.24	N 443,074.00
8 110° 31' 02" W 2,184.15	N 442,745.00

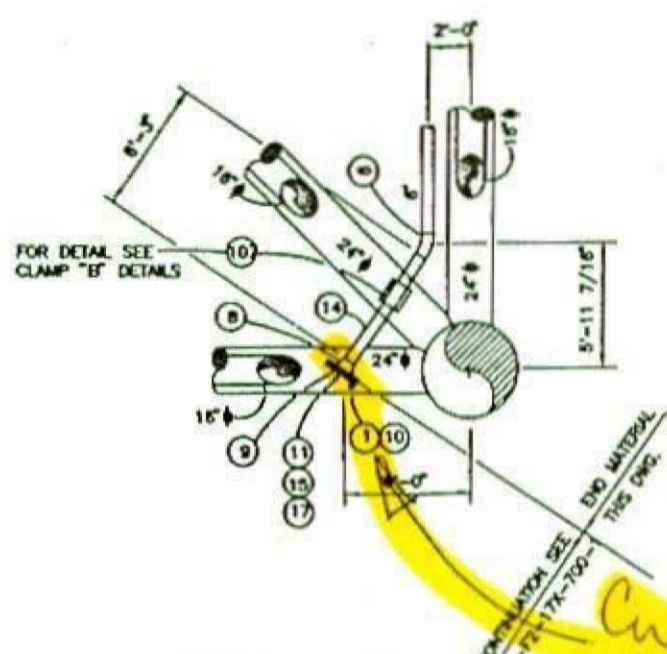
"Pipeline to be Abandoned"

NOTE: COORDINATES ON POINTS 1-9 WERE ESTABLISHED BY 000M OFFSHORE SURVEY BEARINGS AND DISTANCES WERE CALCULATED USING THE LAMBERT GRID (LOUISIANA SOUTH ZONE) SYSTEM. THE ROUTE AS SHOWN MAY NOT NECESSARILY BE THE EXACT LOCATION OF THE PIPELINE.

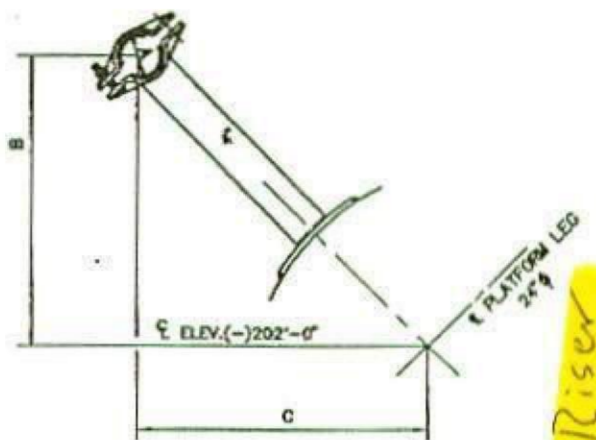
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MATERIAL SUMMARY	
1	Anode, 6" Cylindrical, Zinc
2	Pipe, 6.625"OD x .375"WT, G, B Snds
3	Pipe, 6.625"OD x .432"WT, G, B Snds
4	Flange, 6" ANSI 600# RTJRN Swivel Ring w/Bolts & Gasket (Dist 100g No. R45)
5	Coating - Per T.G.P. Specs. 1C-200

TAX DISTRICT DATA ZONE OWNERSHIP & LINE LIST NO. (ALL A-515A)	FEDERAL OFFSHORE 9,384.8 FT. UNITED STATES OF AMERICA GULF OF MEXICO	DRAWING NO. 10-F1-17X-700-1A TITLE Pipeline Details - Val. No. 17X-701	DRAWN BY CSC CHECKED BY HW CORRECT BY JJJ APPROVED BY DATE 1-10-91 DATE 1-10-91 DATE 4-91	HIGH ISLAND BLK. A-515A LINE LINE NO. 17X-700 HIGH ISLAND AREA, GULF OF MEXICO	APPROVED BY DATE 1/20/91 Tennessee Gas Pipeline Co.

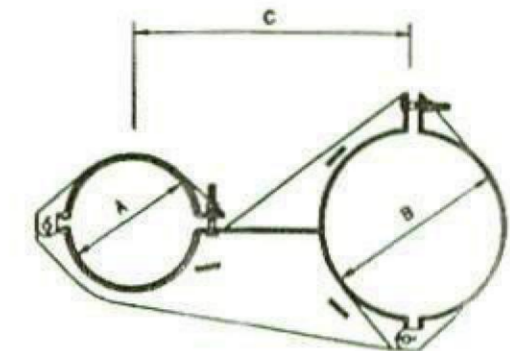


SECTION "A-A"
SCALE: NONE



PIPE CLAMP SCHEDULE			
BELOW WATER			
ITEM NO.	PIPE SIZE	DIMENSIONS	
		A	B
107	6.625"	7 5/8"	2'-0"

PIPE CLAMP SCHEDULE			
BELOW WATER			
ITEM NO.	PIPE SIZE	DIMENSIONS	
		A	B
107	6.625"	0'-7 5/8"	1'-0"



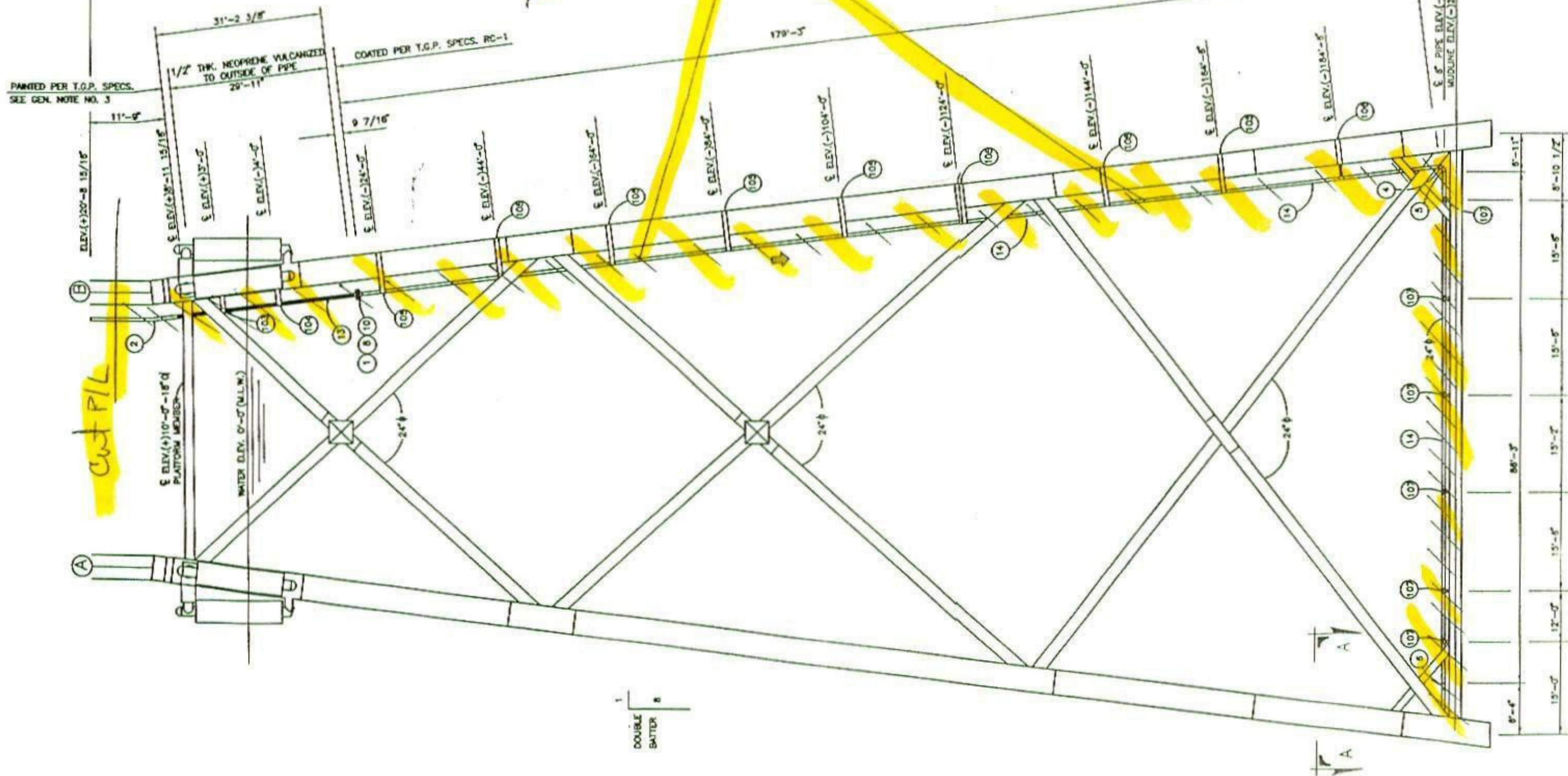
PIPE CLAMP SCHEDULE				
ABOVE WATER				
ITEM NO.	PIPE SIZE	DIMENSIONS		
		A	B	C
102	6.625"	7 5/8"	3'-6 1/4"	5'-0 3/4"
103	6.625"	8 5/8"	4'-5 5/8"	5'-0 3/4"

PIPE CLAMP SCHEDULE				
BELOW WATER				
ITEM NO.	PIPE SIZE	DIMENSIONS		
		A	B	C
104	6.625"	8 5/8"	4'-3 7/8"	5'-0 3/4"
105	6.625"	7 5/8"	4'-3 1/2"	5'-0 3/4"

*Abandon Riser
in-Place remove
with platform*

*Cut P/L or Disconnect
+ Install Plug*

FOR CONTINUATION SEE
DWG. TO-F2-17X-700-1C1



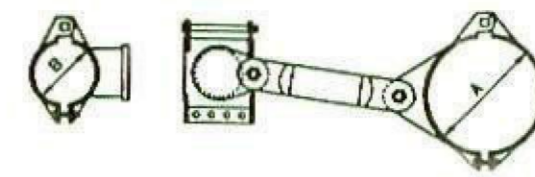
ELEVATION "ROW-2"
TENNECO OIL COMPANY
HIGH ISLAND BLK. A-515A PLATFORM
SCALE: NONE

BEST AVAILABLE COPY

Tenneco Gas Engineering And Right-Of-Way Department Houston, Texas		DRAWN BY: W.V. CHECKED BY: H.W. APPROVED BY: JMD	DATE: 12/90 DATE: 12/90 DATE: 4-91	PIPING DETAILS HIGH ISLAND BLK A-515A LINE LINE NO. 17X-700	APPROVED BY: <i>RS Mant</i> Tennessee Gas Pipeline Co. TO-F1-17X-700-1B
REFERENCE DRAWINGS TO-F1-17X-700-1B1 PIPING DETAILS - DECK TO-F1-17X-700-1M MATERIAL		FILE NO.: 1218/170900_B		HIGH ISLAND AREA GULF OF MEXICO	

MATERIAL LEGEND

- 1 CONNECTOR COLLET, 12" CLASS 800 (COMP.)
- 2 TEE, REDUCED OUTLET 12,750" OD x .500" WT X 6.625" OD x .432" WT GR Y52
- 3 PIPE, 6.625" OD x .432" WT GR B
- 4 PIPE, 12,750" OD x .500" WT GR X52
- 5 BOLT, STUD 1" DIA. x 9" LG. w/2 HEX NUTS EACH
- 6 FLANGE, 6" CLASS 800 RTJ/W
- 7 GASKET, 6" CLASS 800 OVAL RING NO. R45
- 8 ELL, WELD 6.625" OD x .432" WT 31" 20 MIN. 3 DR
- 9 VALVE, BALL 6" CLASS 800 RF/RE
- 10 VALVE, SPRING CHECK 6" CLASS 800 RF/RE
- 11 BALL CONNECTOR, 6" CLASS 800 RF/RE w/24" LG. PUPS EACH END
- 12 FLANGE, SWIVEL RING 6" CLASS 800 RTJ
- 13 NIPPLE, PIPE 1/2" x 1/4" x 3" LG TIE SS
- 14 VALVE, BALL 1/2" NPT 4500 PSI SS
- 15 PLUG, HEX 1/2" 8000 PSI SDR.
- 16 BOLT, STUD 5/8" DIA. x 4 1/2" LG. w/2 HEX NUTS EACH
- 17 FLANGE, 2" CLASS 800 RF/W
- 18 GASKET, 2" CLASS 800 SS w/VITON SEAL
- 19 PIPE, 2.375" OD x .218" WT GR B
- 20 WELDOLET, 6" HDR 2" BRANCH BUTT WELD 6000 PSI
- 21 THREDOLET, 2" HDR 1/2" BRANCH 6000 PSI SDR.
- 22 ELL, WELD 2" OD x .218" WT. 90" LR.
- 23 VALVE, BALL 2" CLASS 800 RF/RE
- 24 VALVE, BALL 12" CLASS 800 RF/RE
- 25 PIPELINE TIE-IN ASSEMBLY, SUPPORT FOR 12" OD PIPE ON 30" MAIN BRANCH
- 26 CLAMP, SWIVEL SKID FOR 12" PIPE ON 30" MAIN LINE
- 27 CLAMP, SWIVEL SKID FOR 12" PIPE ON 30" MAIN LINE
- 28 CLAMP, FOR MEASURING DEVICE ON 30" MAIN LINE
- 29 CAP, BLIND HUB 12" OD CLASS 900
- 30 FLANGE, BLIND 2" CLASS 800 CDAT 1/2" NPT
- 31 TEE, WELD 2" OD x .218" WT GR B
- 101 CLAMP, & BRACE FOR 12" PIPE
- 104 CLAMP, FOR 12" PIPE
- 105 CLAMP, FOR 12" PIPE

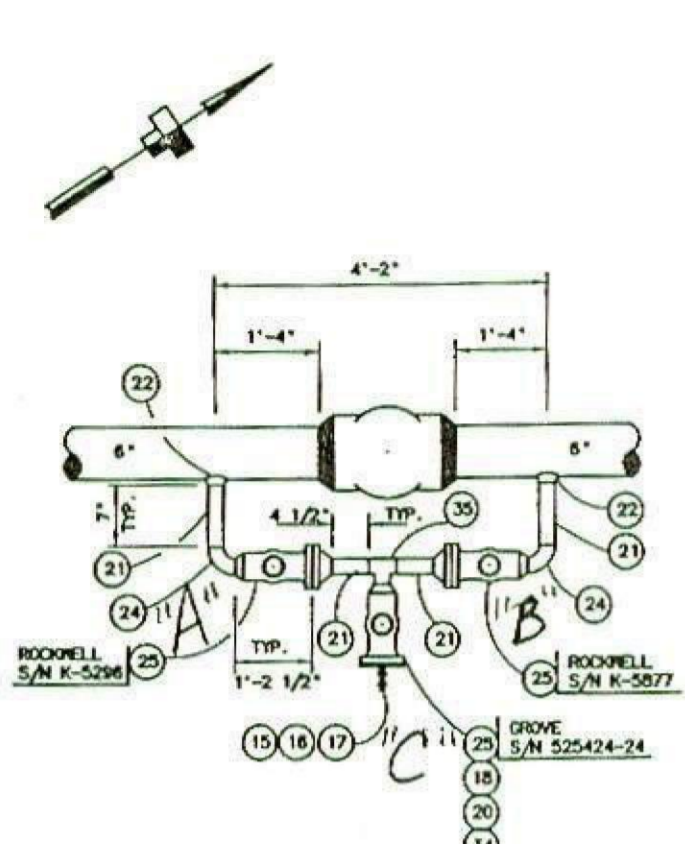


ELEVATION

PIPE CLAMP AND BRACE DETAILS

SCALE: NONE

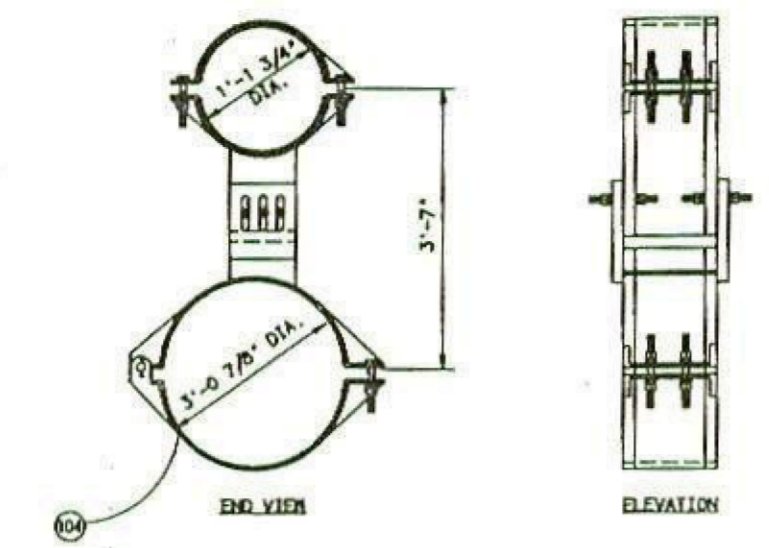
ITEM NO.	PIPE SIZE	DIMENSIONS		
		A	B	C
101	6.625"	3'-0" 7/8"	0'-7" 5/8"	



PLAN

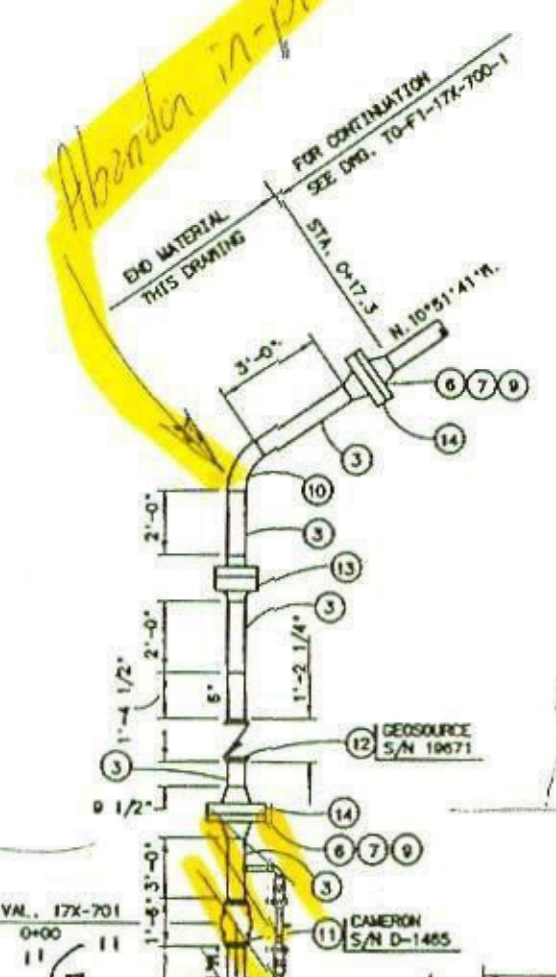
BYPASS VALVE DETAIL

SCALE: NONE



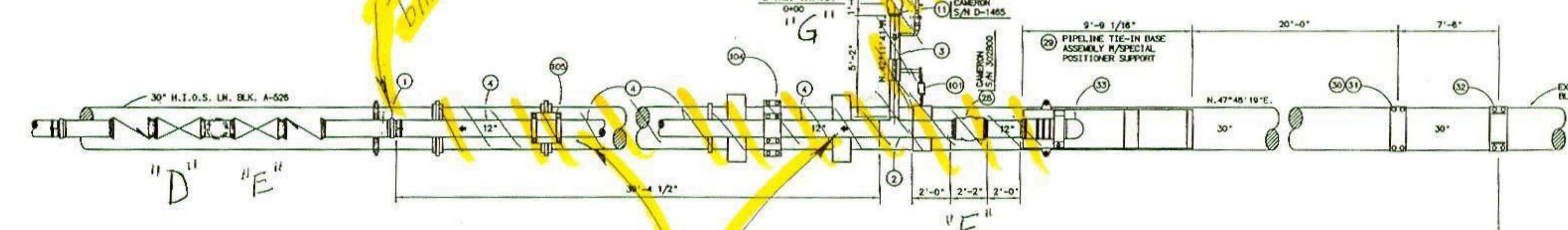
ADJUSTABLE CLAMP

SCALE: NONE



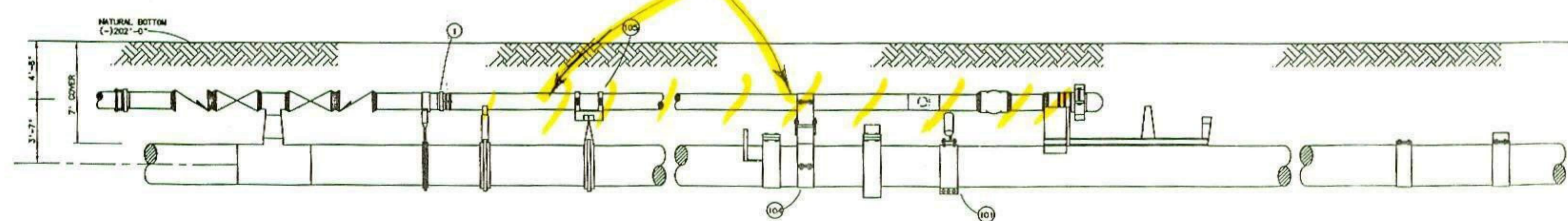
PLAN

SCALE: NONE



PROFILE

SCALE: NONE



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<p>REFERENCE DRAWINGS</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>DRAWING NO.</th> <th>TITLE</th> </tr> </thead> <tbody> <tr> <td>TO-F1-17X-700-1M</td> <td>MATERIAL</td> </tr> </tbody> </table>	DRAWING NO.	TITLE	TO-F1-17X-700-1M	MATERIAL	<p>Tenneco Gas Engineering And Right-Of-Way Department Houston, Texas</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>DESIGNED BY</td> <td>R. Y.</td> <td>DATE</td> <td>12/90</td> </tr> <tr> <td>CHECKED BY</td> <td>H. R.</td> <td>DATE</td> <td>12/90</td> </tr> <tr> <td>CONTRACT NO.</td> <td>JWJ</td> <td>DATE</td> <td>4-97</td> </tr> <tr> <td>APPROVED BY</td> <td></td> <td>DATE</td> <td></td> </tr> <tr> <td>SCALE</td> <td>AS SHOWN</td> <td></td> <td></td> </tr> </table>	DESIGNED BY	R. Y.	DATE	12/90	CHECKED BY	H. R.	DATE	12/90	CONTRACT NO.	JWJ	DATE	4-97	APPROVED BY		DATE		SCALE	AS SHOWN			<p>File No.: 010VA17X0001A</p> <p>PIPING DETAILS HIGH ISLAND BLK A-515A LINE LINE NO. 17X-700</p>	<p>APPROVED BY <i>BSM</i></p> <p>Tennessee Gas Pipeline Co. HIGH ISLAND AREA. GULF OF MEXICO</p> <p>TO-F1-17X-700-1A</p>
DRAWING NO.	TITLE																											
TO-F1-17X-700-1M	MATERIAL																											
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APPROVED BY		DATE																										
SCALE	AS SHOWN																											



United States Department of the Interior



MINERALS MANAGEMENT SERVICE
GULF OF MEXICO OCS REGION
1201 ELMWOOD PARK BOULEVARD
NEW ORLEANS, LOUISIANA 70123-2394

In Reply Refer To: LE-3-1
N. O. Misc. No. 014

November 30, 1989

ACTION

27109

Tennessee Gas Pipeline Company

Right-of-Way

MERGER AND CHANGE OF NAME RECOGNIZED

On October 17, 1989, there was filed in this office for approval evidence of merger of Tenneco Merger Company, an unqualified corporation, with and into Tenneco Inc., a Delaware corporation (N. O. Misc. No. 014), and, as of the date of the merger, Tenneco Inc. changed its name to Tennessee Gas Pipeline Company. The effective date of the merger and simultaneous change of name is December 8, 1987. The name of the surviving corporation is Tennessee Gas Pipeline Company and the qualification number assigned thereto is New Orleans Miscellaneous File Number 014.

In connection with the merger and change of name, the following evidence was received:

1. Agreement and Plan of Merger of Tenneco Merger Company with and into Tenneco Inc. under the name of Tennessee Gas Pipeline Company, duly certified by the Secretary of State of the State of Delaware on December 8, 1987, with additional certification by James Gaughan, Assistant Secretary of Tennessee Gas Pipeline Company, on June 7, 1989;
2. Certificate reflecting that Tennessee Gas Pipeline Company is duly incorporated under the laws of the State of Delaware and is in good standing, executed by the Secretary of State of the State of Delaware, on November 3, 1988;
3. Certificate reflecting that Tennessee Gas Pipeline Company is incorporated under the laws of the State of Delaware and that it is authorized to hold pipeline rights of way and mineral leases on the Outer Continental Shelf, duly executed by Vincent F. Ewell, Jr., Assistant Secretary of Tennessee Gas Pipeline Company, on June 7, 1989;


In 7183

4. Certificate listing the elected or appointed and now acting officers of Tennessee Gas Pipeline Company, duly executed by James Gaughan, Assistant Secretary of Tennessee Gas Pipeline Company, on June 7, 1989;
5. Copy of resolutions adopted at a meeting of the Board of Directors of Tennessee Gas Pipeline Company held on May 9, 1989, duly certified by James Gaughan, Assistant Secretary of Tennessee Gas Pipeline Company, on June 1, 1989;
6. Bond Rider to be attached to Outer Continental Shelf Right of Way Bond Number 61 S 33110-15-79 BCA changing the name of the principal to Tennessee Gas Pipeline Company, effective December 8, 1987;
7. Listing of the pipeline rights-of-way to be affected by the merger and change of name.

Since the transfer and vesting of property rights in the surviving corporation have been effected by State statutes by operation of law and not by individual conveyances, the merger and change of name are hereby approved insofar as they affect pipeline rights-of-way under 30 CFR 250. The change in ownership as to the pipeline rights-of-way listed below is recognized and the records so noted:

<u>OCS-G NO.</u>	<u>OCS-G NO.</u>	<u>OCS-G NO.</u>	<u>OCS-G NO.</u>	<u>OCS-G NO.</u>
0643	1345	1692	1854	2121-E
0643-A	1376	1702	1854-A	2123
0643-B	1382	1702-B	1854-B	2214
0643-C	1382-A	1702-C	1854-C	2214-A
0643-D	1383	1702-D	1854-E	2975
0649	1434	1702-E	1854-F	2975-A
0875	1434-A	1702-F	1854-G	3221
0877	1434-G	1702-H	1854-H	3221-A
0885	1434-H	1702-I	1854-I	3348
0886	1434-J	1702-K	1907-W	3349
0887	1434-K	1702-L	1950-J	3350
0887-A	1461	1702-M	1950-L	3355
0889	1464	1702-O	1992	3357
0891	1464-A	1702-P	2121	3358
0891-A	1683	1702-Q	2121-A	3360
0892	1684	1702-R	2121-B	3437
0895	1687-S	1702-S	2121-C	3449
1320	1687-T	1702-T	2121-D	3451

<u>OCS-G NO.</u>	<u>OCS-G NO.</u>	<u>OCS-G NO.</u>	<u>OCS-G NO.</u>	<u>OCS-G NO.</u>
3455	4028	4290	4855	7109
3613	4030	4291	4977	7535
3614	4040	4306	5135	7536
3626	4043	4308	5136	7552
3633	4061	4309	5137	7554
3638	4150	4340	5141	7575
3644	4154	4341	5152	7576
3648	4158	4373	5157	7587
3652	4160	4374	5232	8046
3828	4161	4526	5253	8047
3837	4169	4603	5259	8050
3845	4171	4605	5933	8056
3848	4173	4608	5937	8057
3851	4276	4609	6381	8527
3852	4282	4613	6546	8617
3855	4283	4641	7096	10396
3861	4284	4644	7104	11165
3862	4287	4686	7107	11174


J. Rogers Pearcy
Regional Director

cc: Associates
Case Files
Qualification File (N. O. Misc. No. 014)

BEST AVAILABLE COPY

SN 7183

Williams

7-2-86

Walker

7-3-86

In Reply Refer To: RP-2-2
OCS-G 7109

JUL 7 1986

Stauffer 7/3/86
Dro 7/3/86

ACTION

Tenneco Inc.

- : Pipe Line Right-of-Way
- :
- : Date of Permit: 9/12/84
- :
- : Decision Requesting Proof of
- : Construction Dated: 4/18/86
- :
- : Proof of Construction
- : Received: 5/9/86
- : Supplemented: 6/16/86

Proof of Construction Accepted

The above-captioned grantee has submitted the evidence required by the law and Regulations 30 CFR 256.95(a). The proof of construction is hereby accepted and approved. Deviation from the original plat has been noted and new plat made a part of the record.

The total length of the "as-built" pipeline right-of-way is 1.77 miles.

(Orig. Sgd.) J. Rogers Pearcy

J. Rogers Pearcy
Regional Director

bcc: P/L OCS-G 7109 (LE)
P/L OCS-G 7109 (w/attachments) (RP-2-2)
ORD Reading File
OPS-5 (w/copy of location plat)

CWilliams:jj:7/2/86:LEXITYPE Disk 5

BEST AVAILABLE COPY

In Reply Refer To: RP-2-2
OCS-G 7109

JUL 7 1986

ACTION

Tenneco Inc. : Pipe Line Right-of-Way
: :
: Date of Permit: 9/12/84
: :
: Decision Requesting Proof of
: Construction Dated: 4/18/86
: :
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Regional Director

bcc: P/L OCS-G 7109 (LE)
P/L OCS-G 7109 (w/attachments) (RP-2-2)
ORD Reading File
OPS-5 (w/copy of location plat)

CWilliams:jj:7/2/86:LEXITYPE Disk 5

*on map
7/11/86
RJ*

Tennessee Gas Pipeline

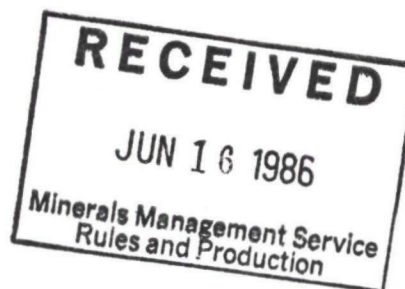
Division of Tenneco Inc

Division "A" Office
1155 Dairy Ashford, Suite #104
P.O. Box 2511
Houston, Texas 77001
(713) 556-0835



June 13, 1986

Minerals Management Service
Attn: Ms. Carol Williams, RP-2-2
P.O. Box 7944
Metairie, Louisiana 70010



RE: Hydrostatic Test Data
Brazos Block A-17
Line No. 17X-200; OCS G-4306
Mustang Island Block A-65
Line No. 17X-1100; OCS G-7535
High Island Block A-515
Line No. 17X-700; OCS G-7109

Dear Ms. Williams:

Per your request, enclosed are two copies each of the above-captioned hydrostatic test data.

Please call if you have any questions.

Sincerely yours,
TENNESSEE GAS PIPELINE COMPANY

Clayton Byerly
Clayton Byerly
Right of Way Agent

plr
Enclosures

cc: M. Handley
File

#0009m

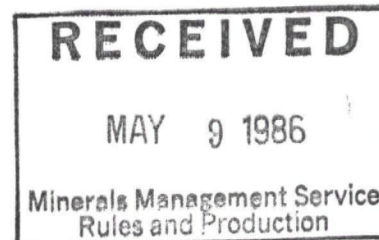
Tennessee Gas Pipeline
Division of Tenneco Inc

Division "A" Office
Suite 300
16010 Barkers Point Lane
Houston, Texas 77079
(713) 556-0835



May 5, 1986

Minerals Management Service
Attn: Mr. A. Donald Giroir
Gulf of Mexico OCS Region
P.O. Box 7944
Metairie, Louisiana 70010



RE: Your: RP-2-2

Our: Brazos Block A-17
OCS-G 4306
Mustang Island Block A-65
OCS-G 7535
High Island Block A-515
OCS-G 7109

Dear Mr. Giroir:

In accordance with 30 CFR 256.95, enclosed are three copies each of the "as built" plats for the above captioned offshore pipelines.

This is in answer to yours of April 18, 1986, and a follow up phone call from your office on April 28.

Please call or write if you need any additional information.

Sincerely yours,
TENNESSEE GAS PIPELINE COMPANY

Clayton Byerly
Clayton Byerly
Right of Way Agent

plr
Enclosures
cc: R. L. Sanderson
Division Files

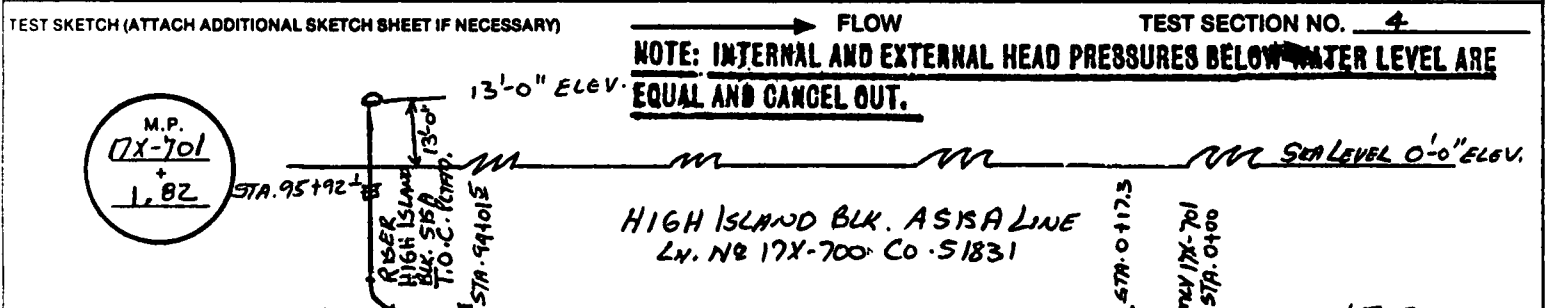
Doc. #0186R

NOTE: SEE PROCEDURE TGT 6-129
FOR INSTRUCTIONS

PIPE TEST REPORT

CO NO 51831	DISTRICT 17	LINE NO. 17X-700	SPREAD Brown & Root 278	SECTION Line & Riser	DATE 11-12-84
DRAWING NO AND DATE TE-F1-17X-700-1		LOCATION FROM MLV 17X-701 TO MLV 17X-702	SECTION TESTED FROM STA. 0+17.3 TO STA. 96+26.3		FOOTAGE 96+09.0
NOMINAL PIPE:	SIZE O.D. 6.625 IN.	W.T. .375 IN.	GRADE B	MFR. United States Steel	
100% S.M.Y.S. PRESSURE 3962 PSIG	M.A.O.P. PRIOR TO TEST PSIG		PIPELINE CONTRACTOR Brown & Root, Inc. BEST AVAILABLE COPY		
HYDROSTATIC TEST CONTRACTOR Double "L" Hydrotest, Inc.			CONTRACTORS PROJECT MANAGER Guy Craft		
COMPANY PERSONNEL INVOLVED J.R. Wilson, T. Foucheaux, & J. Louge			USEFUL CONVERSION FACTORS: • 1 FOOT OF WATER = .433 PSI • Gal/ft. ~ ID ² X .0408 • 1 PSI = 2.31 FEET OF WATER •		

TEST MEDIUM Water	WATER SOURCE & TEMPERATURE: MILE POST Salt Water from the Gulf of Mexico			PIPE TESTED <input checked="" type="checkbox"/> IN PLACE <input type="checkbox"/> PRE-TESTED	
	END OF TEST SECTION	PRESSURE POINT	HIGH ELEVATION	LOW ELEVATION	END OF TEST SECTION
MAP PLUS	96+26.3	96+26.3	96+26.3	96+22.0	0+17.3
ELEVATION (FEET)	(+)13'-0"	(+)13'-0"	(+)13'-0"	0'-0"	(-)202'-0"
TEST PRESSURE (PSI)	2162	2162	2162	2168	2168
100% S.M.Y.S.	54.56%	54.56%	54.56%	54.71%	54.71%



PRESSURE		9,384.2'					
MINIMUM MAINTAINED 2162	MAXIMUM ATTAINED 2175	PRESSURE RECORDER 242A17604	WATER TEMP RECORDER 675467	GROUND TEMP RECORDER N/A	DEAD WEIGHT USED 1702	PRESSURE PUMP 966T	MANIFOLDS USED N/A
RANGE		MANUFACTURE		CERTIFICATION DATE		NAT. BOTTOM -202'-0" ELEV.	
0-3000 PSI		Standard Barton		9-5-84 5-9-84		gal./Stroke .0399	

FAILURE DATA N/A (OBSERVED AT FAILURE PT)	DATE _____	TIME _____ A.M. P.M.	MAP STATION _____	ELEVATION _____	FAILURE PRESSURE PSIG _____ %S.M.Y.S.
DESCRIPTION (ATTACH SKETCH OR PHOTO)			REPAIRS MADE (USE BACK IF NEEDED)		
<input checked="" type="checkbox"/> ALL TIE-IN WELDS WERE NONDESTRUCTIVELY TESTED METHOD: <u>X-Rayed</u>			NONDESTRUCTIVELY TESTED BY <u>Jessi Melaneon - Mobile Lab X-Ray Co.</u>		

ELEVATION DATA DERIVED FROM PROFILE SHEET TE.	OR U.S.G.S. QUAD SHEET:
TEST REJECTED	TEST ACCEPTED
NOTE: SEE ABOVE FAILURE DATA	TEST INSPECTOR SIGNATURE: <u>J. Wilson (by J.T.C.)</u>
SIGNATURE: _____	DISTRICT SIGNATURE: <u>Oliver Brewer</u>
DATE: _____	DIVISION SIGNATURE: <u>L. P. ...</u>
	GOVERNMENT AGENCY SIGNATURE:
	DATA BASE ENTRY BY:

TABLE OF TEST PRESSURES

DATE	TIME	DEAD WEIGHT	TEMPERATURE			REMARKS: ON TEST, WEATHER, BLEED OFF, OFF TEST, NO. OF STROKES FOR REPRESSURE, ETC.
			AMBIENT	GROUND	WATER	
11-12-84	08:53am	0	62	N/A	76	Begin Building Line Pressure
	09:04	1050	62		76	Stopped to check for leaks
	09:08	1050	62		76	Continue building pressure
	09:15	2175	62		76	On Test
	09:42	2171	64		76	
	09:55	2169	64		76	
	10:15	2165	65		77	
	10:45	2163	65		78	
	11:00	2162	66		77	
	11:15	2162	67		77	
	11:25	2162-2175	67		77	Repressured
	11:27	2175	68		77	
	12:00pm	2172	68		75	
	12:15	2170	68		74	
	12:30	2170	68		74	
	12:45	2170	66		73	
	13:00	2170	67		73	
	13:15	2170	67		73	
	13:30	2170	68		72	
	13:45	2170	69		72	
	14:00	2170	69		72	
	14:30	2170	70		72	
	15:00	2170	71		72	
	15:30	2170	71		72	
	16:00	2170	71		72	
	16:30	2170	72		72	
	17:00	2170	68		72	
	17:30	2170	64		72	Off Test
	17:33	2170	64		72	Bleeding off line
	17:50	0	63		72	Finished bleeding line

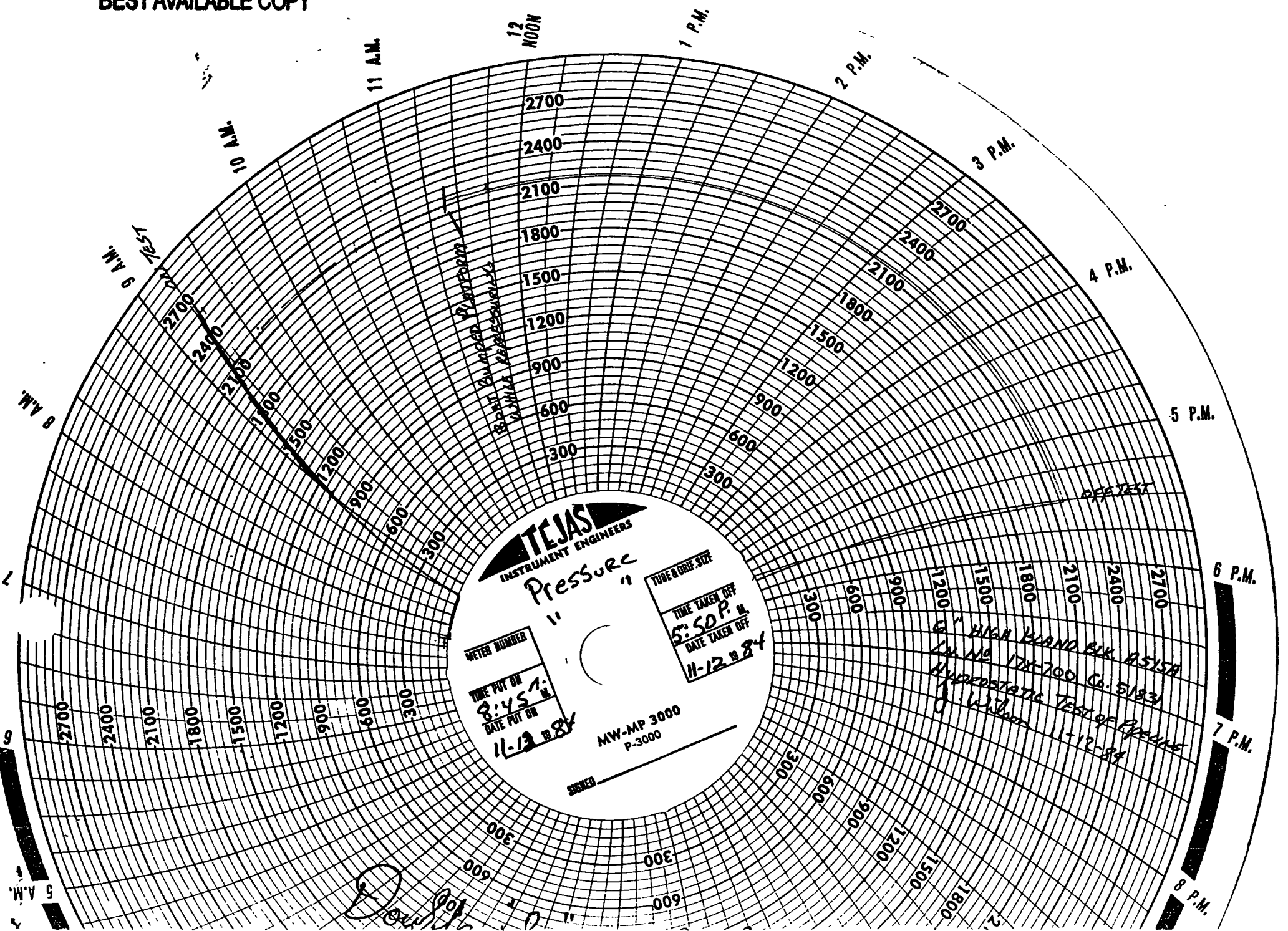
LOCATION TABLE OF PIPE PUT IN SERVICE BY THIS TEST (Location footages must balance with test footages)

MILE POST	MAP STATION	MAP STATION	FOOTAGE	MILE POST	MAP STATION	MAP STATION	FOOTAGE
17X-701+1.82	0+17.3	96+26.3	9609.0				

COMMENTS: (Emergency joint number and storage location, etc.)

NOTE: INTERNAL AND EXTERNAL HEAD PRESSURE BELOW WATER LEVEL ARE EQUAL TO SURFACE WATER

BEST AVAILABLE COPY



TEJAS
INSTRUMENT ENGINEERS

Pressure
" "

METER NUMBER

TIME PUT ON
8:45 A.M.
DATE PUT ON
11-12-84

MW-MP 3000
P-3000

SIGNED

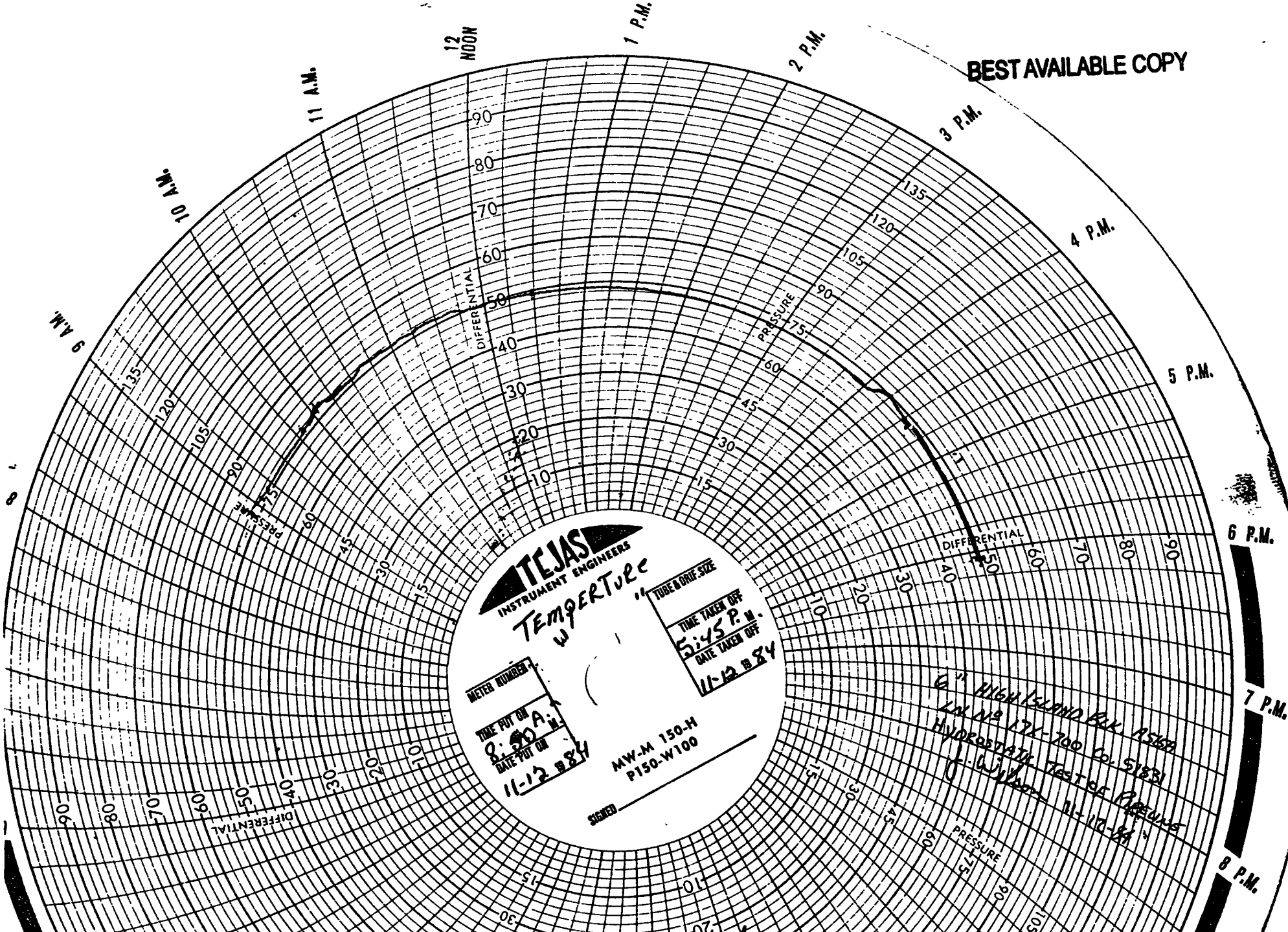
TUBE & GAGE SIZE

TIME TAKEN OFF
5:50 P.M.
DATE TAKEN OFF
11-12-84

6" HIGH BLAND BULK B515A
L.M. NO. 17X-200 Co. 51834
HYDROSTATIC TEST OF PIPELINE
J. Wilkins 11-12-84

Handwritten signature

BEST AVAILABLE COPY



TEJAS
 INSTRUMENT ENGINEERS
TEMPERATURE
 " TUBE & DRIF. SIZE

METER NUMBER: _____
 TIME PUT ON: 8:30 A.M.
 DATE PUT ON: 11-12-84

TIME TAKEN OFF: 5:45 P.M.
 DATE TAKEN OFF: 11-12-84

MW-M 150-H
 P150-W100

SIGNED: _____

6" HIGH ISLAND PAK 15168
 LN NO 171-700 Co. 51831
 HYDROSTAT TEST OF PRESSURE
 J. G. Wilson 11-12-84

7-20-A

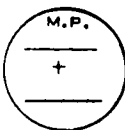


NOTE: SEE PROCEDURES TGT 6-129 FOR INSTRUCTIONS

C.O. NO. 51831	DISTRICT 17	LINE NO. 17X-700	SPREAD YARD TEST	SECTION 1	DATE 10/2/84
DRAWING NO. TE-FI-17X-700-1B		LOCATION FROM MLV TO MLV		SECTION TESTED FROM STA. TO STA.	FOOTAGE
NOMINAL PIPE:	SIZE O.D. 6.625 IN.	W.T. .375 IN.	GRADE B	MFR. U.S. STEEL	
100% S.M.Y.S. PRESSURE 3962 PSIG	M.A.O.P.		PIPELINE CONTRACTOR BROWN & ROOT		
HYDROSTATIC TEST CONTRACTOR BROWN & ROOT			PROJECT MANAGER GUY CRAFT		
COMPANY PERSONNEL INVOLVED J. WILSON					
TEST MEDIUM (WATER, GAS, AIR, OTHER) WATER					

	END OF TEST SECTION	PRESSURE POINT	HIGH ELEVATION	LOW ELEVATION	END OF TEST SECTION
MAP PLUS					
ELEVATION (FEET)		YARD	TEST		
TEST PRESSURE (PSI)	2162	2162	2162	2162	2162
% S.M.Y.S.	55%	55%	55%	55%	55%

TEST SKETCH (ATTACH ADDITIONAL SKETCH SHEET IF NECESSARY) → FLOW TEST SECTION NO. 2



SEE ATTACHED SKETCH

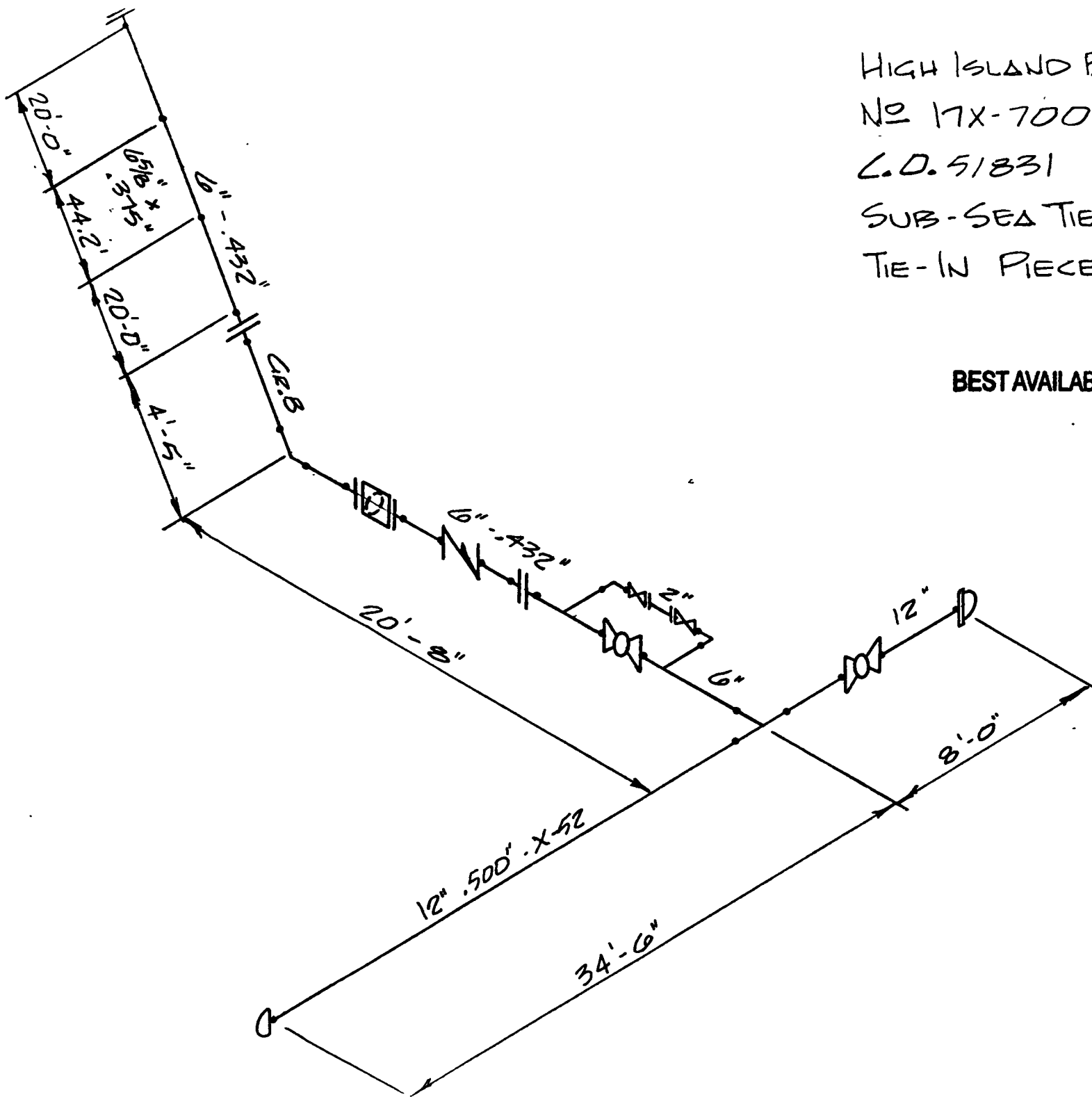
BEST AVAILABLE COPY

USEFUL CONVERSION FACTORS ● 1 FOOT OF WATER = .433 PSI ● 1 PSI = 2.31 FEET OF WATER	WATER SOURCE TAP HARVEY, LA.	MILE POST YARD TEST	WATER SOURCE TEMPERATURE 54°
DEVIATION DATA (OBSERVED AT PRESSURE PT)	INITIAL DEVIATION:	PRESSURE PSIG	% S.M.Y.S.
	FINAL DEVIATION:	PRESSURE PSIG	% S.M.Y.S. DEVIATION PSI
FAILURE DATA (OBSERVED AT FAILURE PT)	DATE	TIME A.M. P.M.	MAP STATION
	DESCRIPTION (ATTACH SKETCH OR PHOTO)		ELEVATION
		FAILURE PRESSURE PSIG	% S.M.Y.S.
		REPAIRS MADE (USE BACK IF NEEDED)	
<input checked="" type="checkbox"/> ALL TIE-IN WELDS WERE NONDESTRUCTIVELY TESTED METHOD: GAMMA RAY			MOBIL LAB BY H.B. RICHARDSON
ELEVATION DATA DERIVED FROM PROFILE SHEET TE-		OR U.S.G.S. QUAD SHEET:	

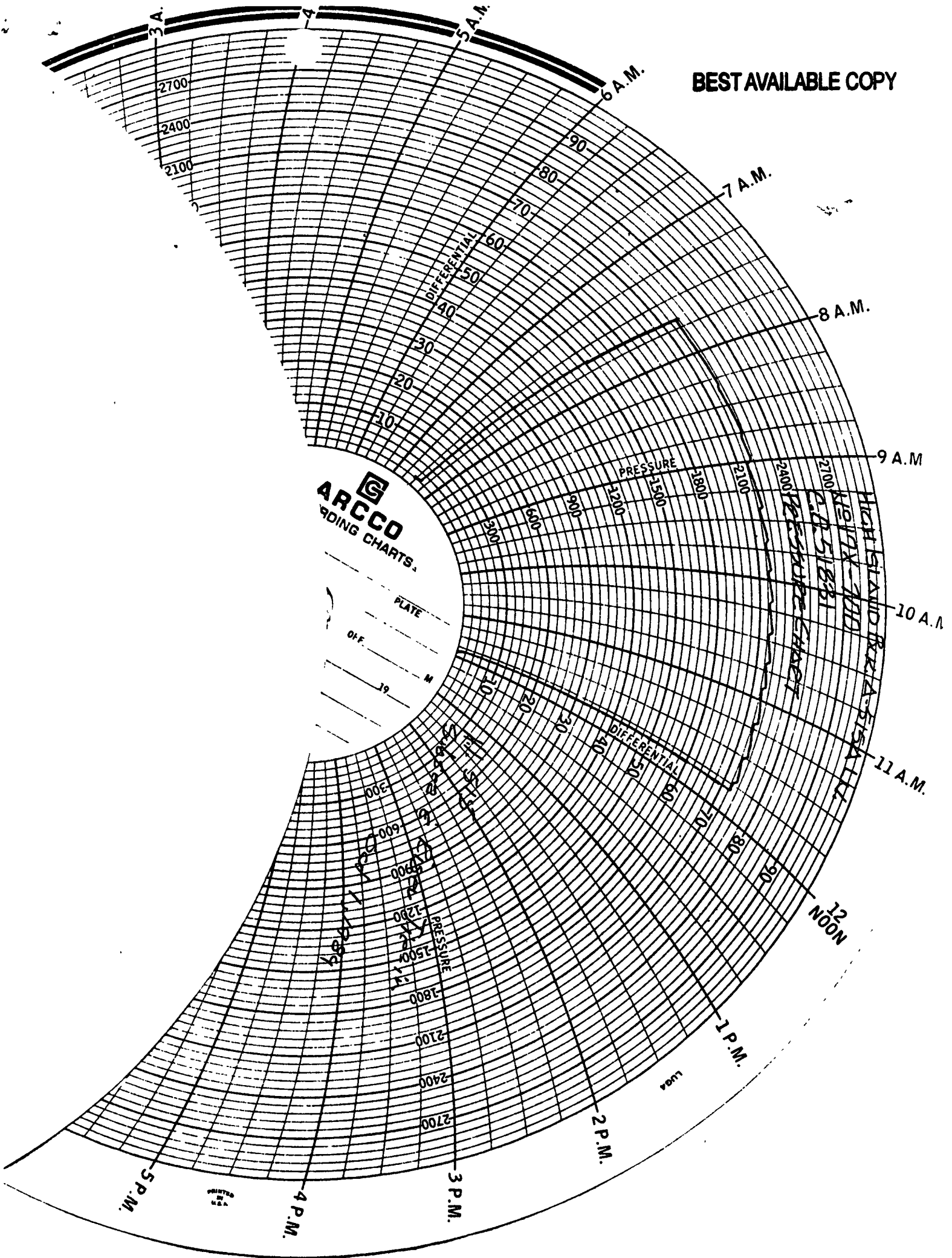
TEST REJECTED	TEST ACCEPTED	DATE
NOTE SEE ABOVE FAILURE DATA	TEST INSPECTOR SIGNATURE: <i>[Signature]</i>	10/2/84
SIGNATURE: _____	DISTRICT SIGNATURE: <i>[Signature]</i>	12-28-84
DATE _____	DIVISION SIGNATURE: <i>[Signature]</i>	1-2-85
	AGENCY SIGNATURE:	

HIGH ISLAND BLK. A-515A
NO 17X-700
C.O. 51831
SUB-SEA TIE-IN & RISER
TIE-IN PIECES

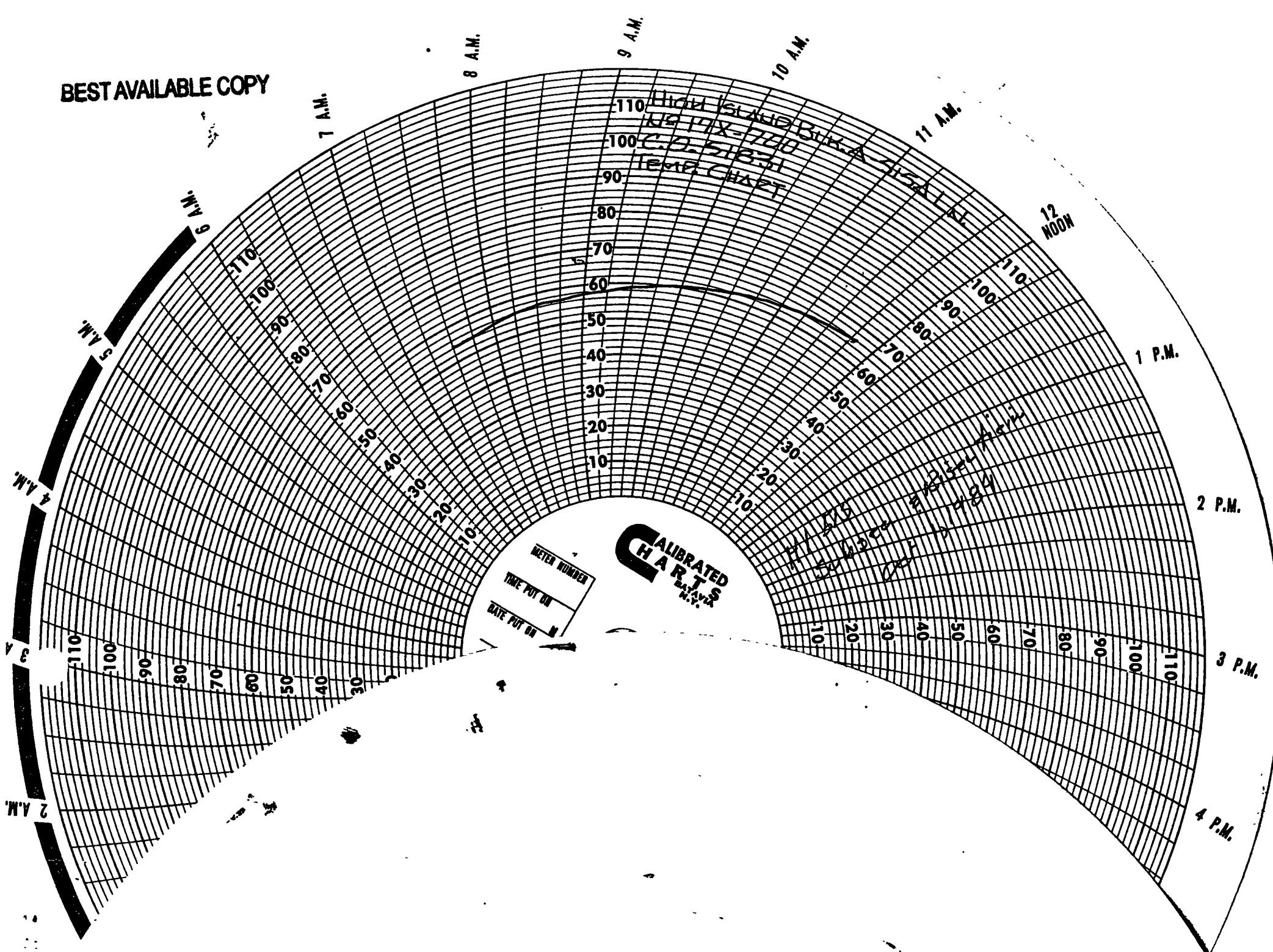
BEST AVAILABLE COPY



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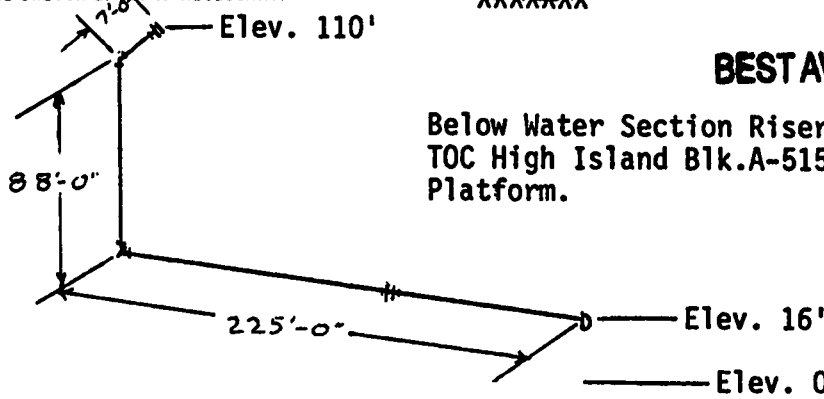
NOTE: SEE PROCEDURES TGT 6-129 FOR INSTRUCTIONS

C.O. NO. 51831	DISTRICT 32	LINE NO. 17X-700	SPREAD Avondale Ship Yard	SECTION 3	DATE June 21, 1984
DRAWING NO. TE-F2-17X-700-1C		LOCATION FROM MLV N/A TO MLV N/A		SECTION TESTED FROM STA. N/A TO STA. N/A	FOOTAGE 321'-0"
NOMINAL PIPE. 6"	SIZE O.D. 6.625 IN.	W.T. .432 IN.	GRADE B	MFR. U.S. Steel	
100% S.M.Y.S. PRESSURE 4564 PSIG		M.A.O.P. PSIG		PIPELINE CONTRACTOR TGP- Houma Const.	
HYDROSTATIC TEST CONTRACTOR TGP- Houma Const.			PROJECT MANAGER N/A		
COMPANY PERSONNEL INVOLVED J. Ledbetter, C. Craig					
TEST MEDIUM (WATER, GAS, AIR, OTHER) Water					

	END OF TEST SECTION	PRESSURE POINT	HIGH ELEVATION	LOW ELEVATION	END OF TEST SECTION
MAP PLUS	N/A	N/A	N/A	N/A	N/A
ELEVATION (FEET)	110'	0'	110'	16'	16'
TEST PRESSURE (PSI)	2172	2220	2172	2213	2213
% S.M.Y.S.	47.59%	48.64%	47.59%	48.49%	48.49%

TEST SKETCH (ATTACH ADDITIONAL SKETCH SHEET IF NECESSARY)

TEST SECTION NO. 3



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Below Water Section Riser, TOC High Island Blk.A-515 Platform.

USEFUL CONVERSION FACTORS	• 1 FOOT OF WATER = .433 PSI • 1 PSI = 2.31 FEET OF WATER	WATER SOURCE Tap	MILE POST N/A	WATER SOURCE TEMPERATURE 83F
---------------------------	--	---------------------	------------------	---------------------------------

DEVIATION DATA (OBSERVED AT PRESSURE PT)	INITIAL DEVIATION:	PRESSURE PSIG	% S.M.Y.S.	DEVIATION			
	FINAL DEVIATION:	PRESSURE PSIG	% S.M.Y.S.	PSI			
FAILURE DATA (OBSERVED AT FAILURE PT)	DATE	TIME	A.M. P.M.	MAP STATION	ELEVATION	FAILURE PRESSURE PSIG	% S.M.Y.S.
	DESCRIPTION (ATTACH SKETCH OR PHOTO)				REPAIRS MADE (USE BACK IF NEEDED)		

ALL TIE-IN WELDS WERE NONDESTRUCTIVELY TESTED METHOD: N/A

BY

ELEVATION DATA DERIVED FROM PROFILE SHEET TE-

OR U.S.G.S. QUAD SHEET:

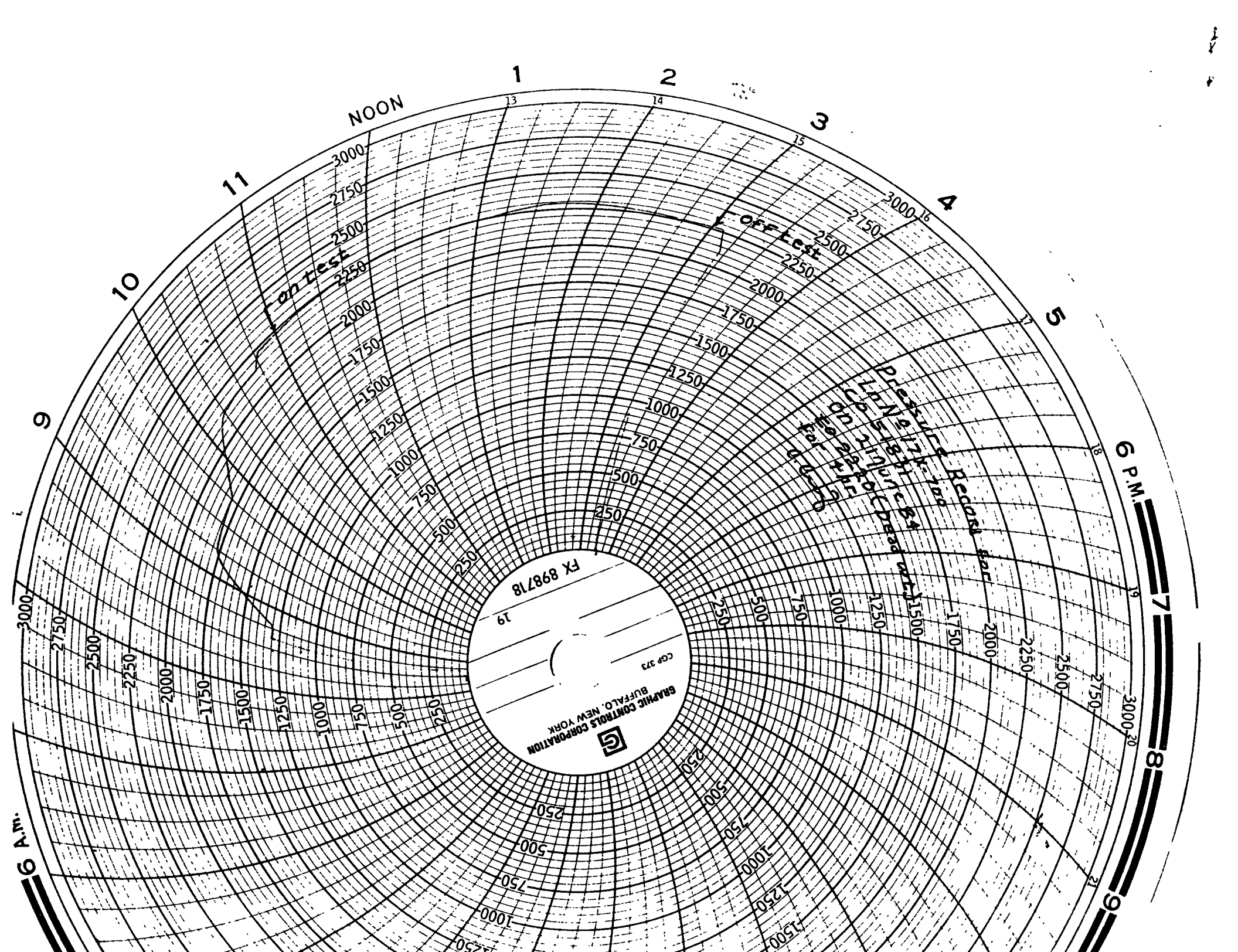
TEST REJECTED	TEST ACCEPTED	DATE
NOTE SEE ABOVE FAILURE DATA	TEST INSPECTOR SIGNATURE: C. G. Craig	21 June 84
SIGNATURE: _____	DISTRICT SIGNATURE: Alex Brewer	12-28-84
DATE _____	DIVISION SIGNATURE: S. R. ...	1-2-85
	AGENCY SIGNATURE: _____	

TABLE OF TEST PRESSURES

DATE	TIME	DEAD WEIGHT	TEMPERATURE (F)		REMARKS: (ON TEST, WEATHER, BLEED OFF, OFF TEST, NO. OF STROKES FOR REPRESSURE, ETC.)
			TEST WATER	AMBIENT	
6/21/84	1048	2145	92	90	To test pressure
	1100	2220	94	88	On test, weather: P/C & warm
	1115	2232	94	88	"
	1130	2235	95	90	"
	1145	2239	96	90	"
	1200	2244	96	90	"
	1215	2245	97	90	Cont. on test, Cloudy
	1230	2242	97	90	"
	1245	2246	97	91	Cont. on test, Sunny
	1300	2250	98	91	"
	1315	2263	98	92	"
	1330	2286	99	92	"
	1345	2286	100	92	"
	1400	2277	100	92	Cont. on test, Cloudy
	1415	2265	99	90	"
	1430	2259	99	90	"
	1445	2255	98	92	"
6/21/84	1500	2267	98	92	Off test, Sunny
	1505	-	-	-	Bleed down

COMMENTS:

Testing equipment furnish by TGP.
Nitrogen Gas used as pressure medium



NOON

6 P.M.

6 A.M.

GRAPHIC CONTROLS CORPORATION
BUFFALO, NEW YORK
CGP 373
FX 898718

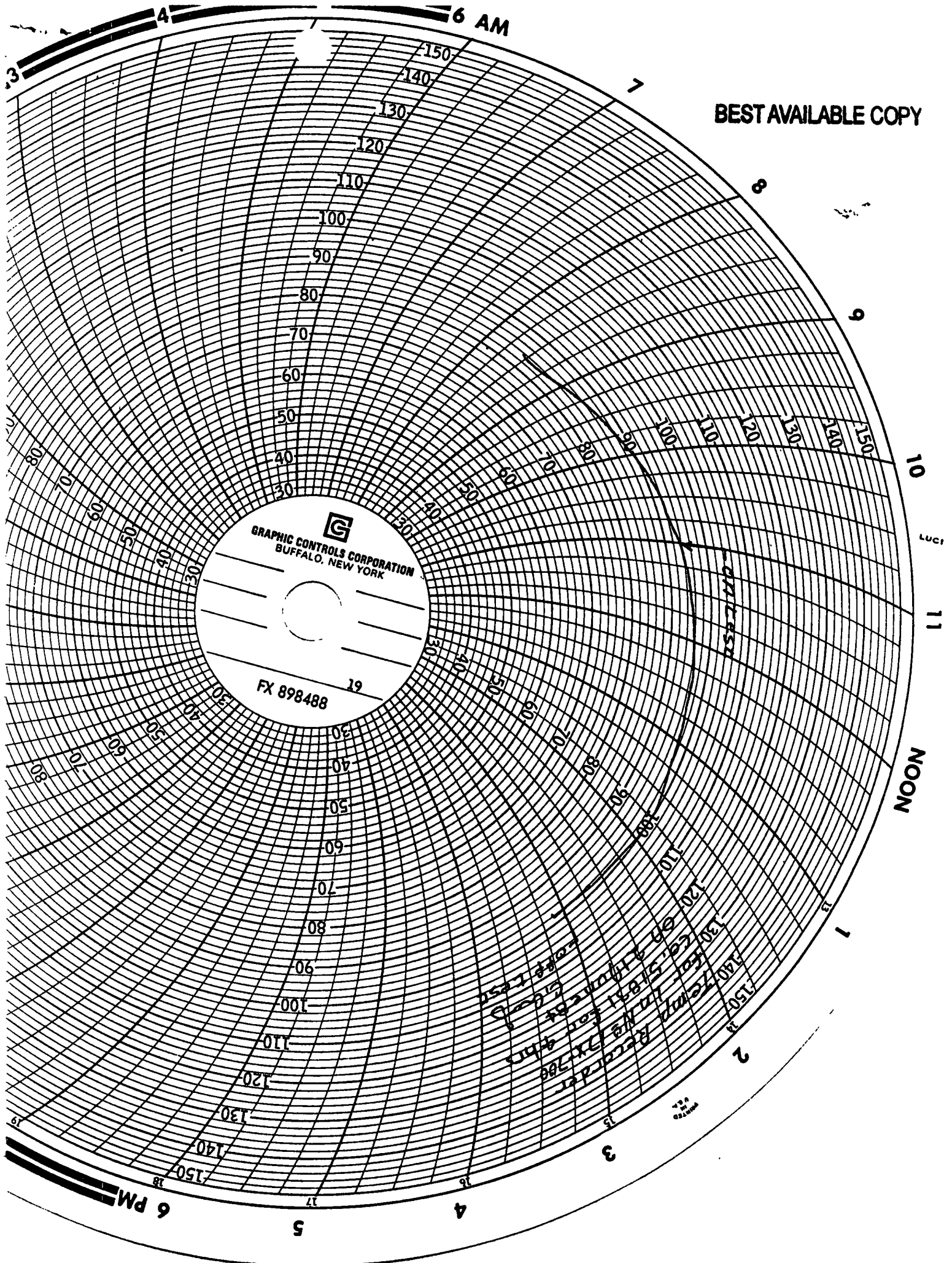
Presented by
L.P. No. 177
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L.P. No. 182
L.P. No. 183
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L.P. No. 287
L.P. No. 288
L.P. No. 289
L.P. No. 290
L.P. No. 291
L.P. No. 292
L.P. No. 293
L.P. No. 294
L.P. No. 295
L.P. No. 296
L.P. No. 297
L.P. No. 298
L.P. No. 299
L.P. No. 300

on test

off test

Record for

BEST AVAILABLE COPY



G
GRAPHIC CONTROLS CORPORATION
BUFFALO, NEW YORK
FX 898488 19

Received in NY on 11/18/81 for 4hrs.
11/18/81 11:50 AM

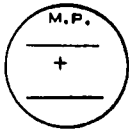


NOTE: SEE PROCEDURES TGT 6-129 FOR INSTRUCTIONS

C.O. NO. 51831	DISTRICT 17	LINE NO. 17X-700	SPREAD T.G.P. FAB SHOP	SECTION I	DATE JUNE 4, 84
DRAWING NO. TE-MP-17X-702-2,3 TE-MP-17X-700-1C1		LOCATION FROM MLV YARD FAB. TO MLV		SECTION TESTED FROM STA. YARD FAB. TO STA.	FOOTAGE
NOMINAL PIPE:	SIZE O.D. 6.625 IN.	W.T. .432 IN.	GRADE B	MFR. U.S. STEEL	
100% S.M.Y.S. PRESSURE 4564	PSIG	M.A.O.P.	PSIG	PIPELINE CONTRACTOR T.G.P. PERSONEL	
HYDROSTATIC TEST CONTRACTOR T.G.P. PERSONNEL				PROJECT MANAGER J. DEBLIEUX	
COMPANY PERSONNEL INVOLVED A.J. ASHLEY, K. BYRD					
TEST MEDIUM (WATER, GAS, AIR, OTHER) WATER					

	END OF TEST SECTION	PRESSURE POINT	HIGH ELEVATION	LOW ELEVATION	END OF TEST SECTION
MAP PLUS	N/A	N/A	N/A	N/A	N/A
ELEVATION (FEET)	N/A	N/A	N/A	N/A	N/A
TEST PRESSURE (PSI)	2161	2161	2161	2161	2161
% S.M.Y.S.	47.3%	47.3%	47.3%	47.3%	47.3%

TEST SKETCH (ATTACH ADDITIONAL SKETCH SHEET IF NECESSARY) → FLOW TEST SECTION NO. I



SEE ATTACHED SKETCH

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USEFUL CONVERSION FACTORS. ● 1 FOOT OF WATER = .433 PSI ● 1 PSI = 2.31 FEET OF WATER	WATER SOURCE HOUMA TAP	MILE POST YARD FAB.	WATER SOURCE TEMPERATURE 74°
DEVIATION DATA (OBSERVED AT PRESSURE PT)	INITIAL DEVIATION:	PRESSURE PSIG	% S.M.Y.S.
	FINAL DEVIATION:	PRESSURE PSIG	% S.M.Y.S. DEVIATION PSI
FAILURE DATA (OBSERVED AT FAILURE PT)	DATE	TIME A.M. P.M.	MAP STATION ELEVATION FAILURE PRESSURE PSIG % S.M.Y.S.
	DESCRIPTION (ATTACH SKETCH OR PHOTO)		REPAIRS MADE (USE BACK IF NEEDED)
<input type="checkbox"/> ALL TIE-IN WELDS WERE NONDESTRUCTIVELY TESTED			BY
METHOD:			
ELEVATION DATA DERIVED FROM PROFILE SHEET TE-		OR U.S.G.S. QUAD SHEET:	

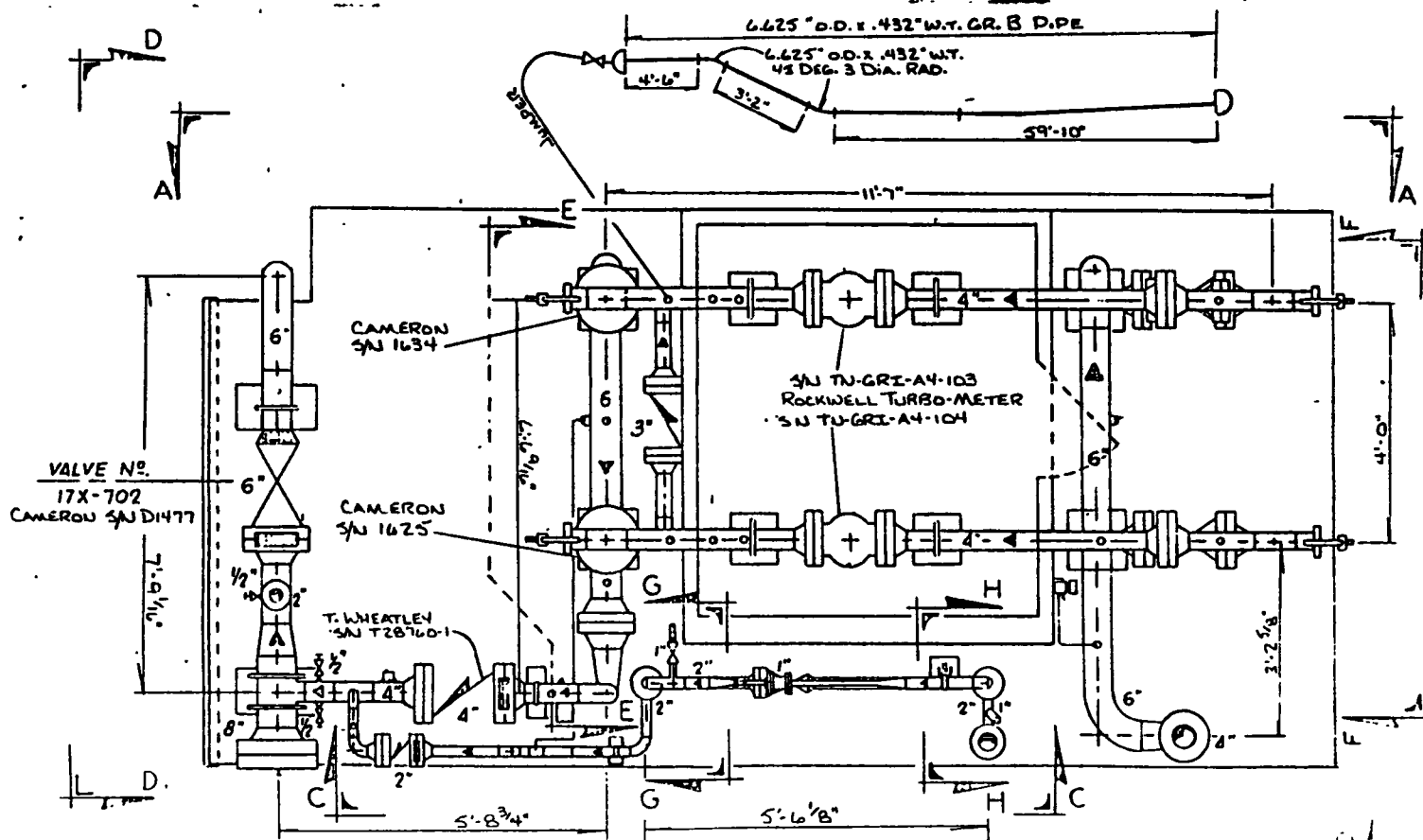
TEST REJECTED	TEST ACCEPTED	DATE
NOTE: SEE ABOVE FAILURE DATA	TEST INSPECTOR SIGNATURE: <i>Kenneth W. Byrd</i>	6-4-84
SIGNATURE: _____	DISTRICT SIGNATURE: <i>Oliver Brewer</i>	12-28-84
DATE: _____	DIVISION SIGNATURE: <i>S. Krenke</i>	1-2-85
	AGENCY SIGNATURE:	

TABLE OF TEST PRESSURES

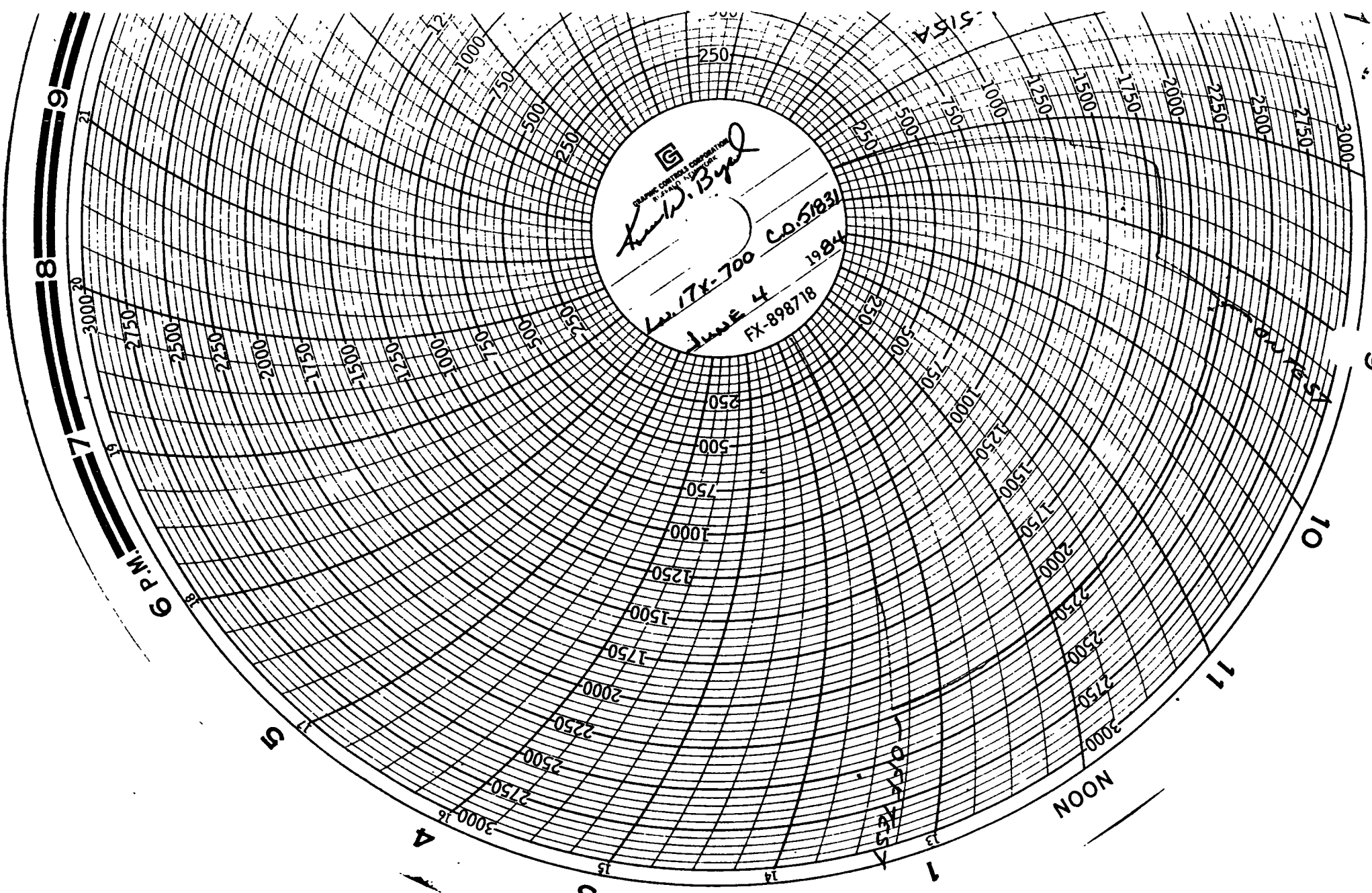
DATE	TIME	DEAD WEIGHT	TEMPERATURE		REMARKS: (ON TEST, WEATHER, BLEED OFF, OFF TEST, NO. OF STROKES FOR REPRESSURE, ETC.)
			TEST WATER	AMBIENT	
JUNE 4, 84	0918	2168	74°	80°	ON TEST
	0930	2162	74°	80°	
	0934	2161-2170	74°	80°	REPRESSURE
"	0940	2163-2171	75°	81°	REPRESSURE
	0945	2164	75°	81°	
	0946	2164-2180	75°	81°	REPRESSURE (1/2" PLUG LEAKING)
	0949	2180-2173	75°	81°	BLEED DOWN TO 2173
	1000	2166	76°	81°	1/2" PLUG STOP LEAKING
"	1005	2163-2184	76°	79°	REPRESSURE
	1007	2184-2174	76°	79°	BLEED DOWN (NO VISIBLE LEAKS)
	1015	2171	76°	79°	
	1026	2162-2176	76°	79°	REPRESSURE
	1030	2175	76°	79°	
"	1045	2170	77°	84°	
	1100	2163	78°	84°	
	1101	2163-2170	78°	84°	REPRESSURE
	1110	2163-2170	78°	85°	REPRESSURE (3/4" PLUG LEAKING)
	1115	2167	78°	85°	
"	1122	2162-2179	78°	87°	
	1130	2179	80°	87°	
	1145	2176	81°	87°	
	1200	2174	82°	89°	SMALL LEAK ON 3/4" PLUG
	1215	2172	83°	89°	
"	1230	2170	83°	89°	
	1232	2169-2187	83°	89°	REPRESSURE (SMALL LEAK 3/4" PLUG)
	1238	2187-2177	83°	89°	BLEED DOWN
	1245	2176	84°	90°	
	1300	2175	84°	90°	
"	1315	2174	85°	90°	
	1322	2174	85°	90°	OFF TEST, BLEED DOWN

COMMENTS:

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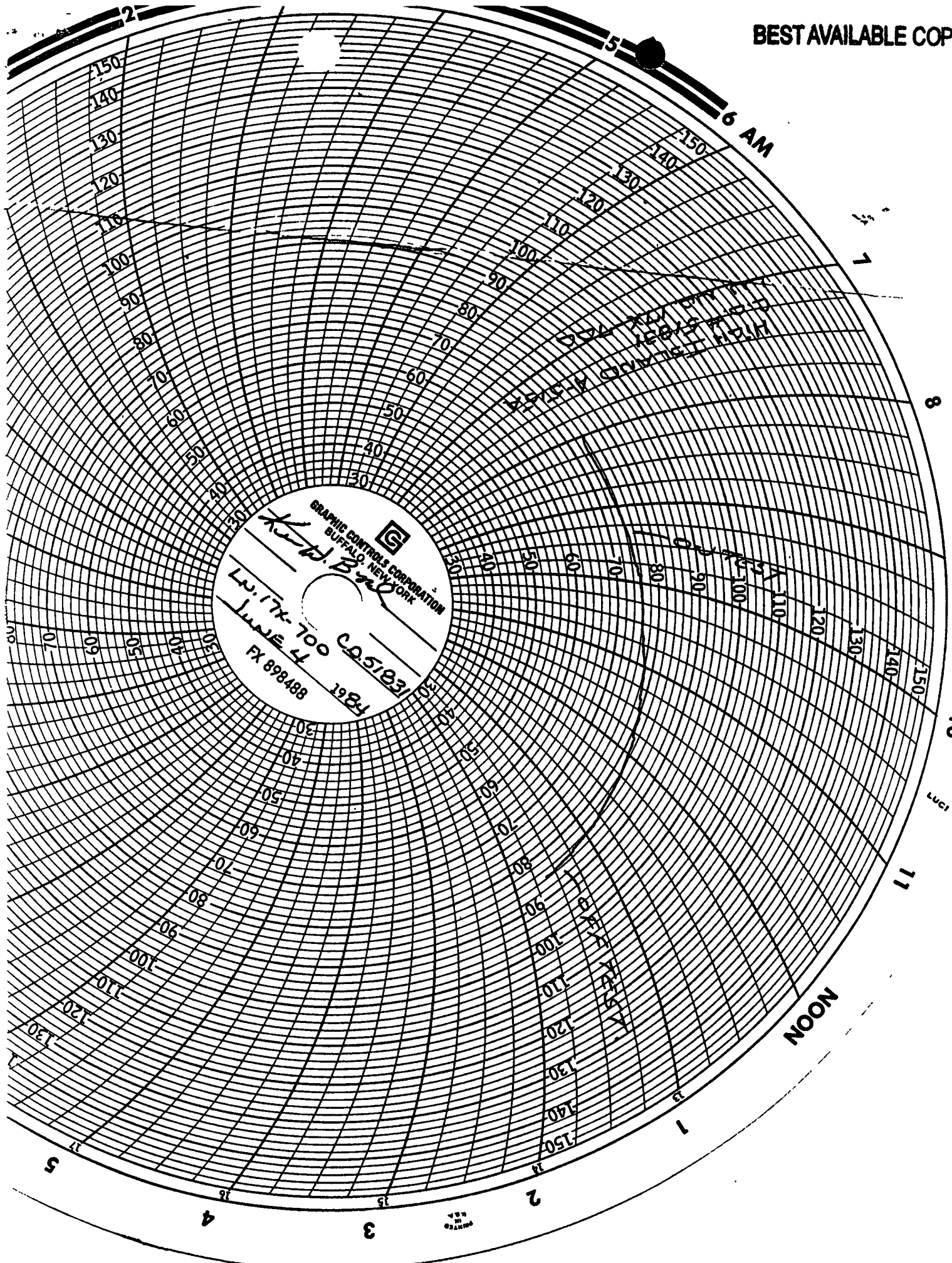
NOTE: FOR SECTION VIEWS SEE PRINT NO. TEMP 17X-702-1



DRAINAGE CONTROL CORPORATION
K. W. Byrd
Jan. 17x-700 Co. 51831
June 4 1984
FX-898718

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IN
U.S.A.




 GRAPHIC CONTROLS CORPORATION
 BUFFALO, NEW YORK
 174-700 CD-51831
 888-888-4444 FX 888-888
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2024-10-10 10:00 AM
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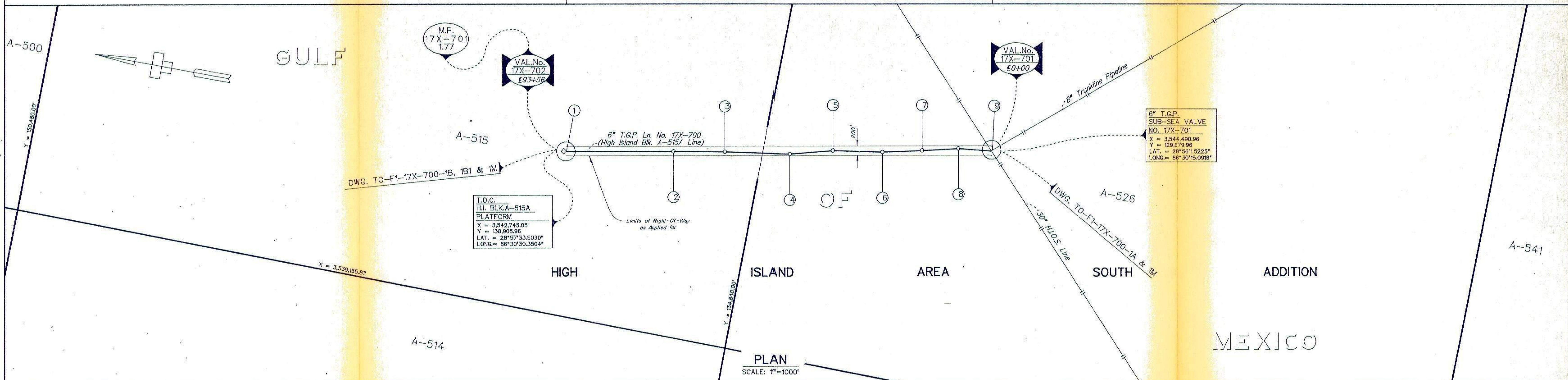
NOON

6 AM

TAX DISTRICT DATA

OWNERSHIP & LINE LIST NO. (H.I. A-515A)

United States Of America (Gulf Of Mexico)



T.O.C.
H.I. BLK.A-515A
PLATFORM
X = 3,542,745.05
Y = 138,905.96
LAT. = 28°57'33.5030"
LONG. = 86°30'30.3504"

VAL.No. 17X-701
£0+00

6" T.G.P. SUB-SEA VALVE NO. 17X-701
X = 3,544,490.98
Y = 129,879.98
LAT. = 28°56'15.225"
LONG. = 86°30'15.0916"

PLAN
SCALE: 1"=1000'

PT.	BEARING & DISTANCE	LAMBERT COORDINATES	
1		3,542,745.00'	138,906.00'
2	S10°34'34"E 2,342.80'	3,543,175.00'	136,603.00'
3	S10°13'08"E 1,132.97'	3,543,376.00'	135,488.00'
4	S08°49'13"E 1,408.66'	3,543,592.00'	134,096.00'
5	S15°19'06"E 953.89'	3,543,844.00'	133,176.00'
6	S09°04'55"E 1,089.66'	3,544,016.00'	132,100.00'
7	S12°51'44"E 875.98'	3,544,211.00'	131,246.00'
8	S13°54'54"E 802.55'	3,544,404.00'	130,467.00'
9	S06°18'30"E 791.79'	3,544,491.00'	129,680.00'

+ LINE WAS LAID IN ACCORDANCE WITH REQUIREMENTS OF THE BUREAU OF LAND MANagements PERMITS AS ISSUED.

PROFILE
HORIZ: 1"=1000'
SCALE: VERT: 1"=20'

Sn.# 7183 (G-7109)



NOTE: COORDINATES ON POINTS 1-9 WERE ESTABLISHED BY JOHN CHANCE SURVEY BEARINGS AND DISTANCES WERE CALCULATED USING THE LAMBERT GRID (TEXAS SOUTH CENTRAL ZONE) SYSTEM. THE ROUTE AS SHOWN MAY NOT NECESSARILY BE THE EXACT LOCATION OF THE PIPELINE.

TOTAL LENGTH OF LINE: 9,356.63 FEET or 1.8 MILES

MATERIAL SUMMARY
AS-CONSTRUCTED
LOCATION OF RIGHT-OF-WAY HAS BEEN ACCURATELY DELINEATED UPON THIS MAP
William R. Ledbetter, Jr.
WILLIAM R. LEDBETTER, JR.
TEXAS REGISTERED PROFESSIONAL ENGINEER No.49368

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C.O. NUMBER & DESCRIPTION	DATE	REFERENCE DRAWINGS	
		DRAWING NO.	TITLE
PRELIM.		TO-F1-17X-700-1A	Piping Piping Details - Val. No. 17X-701
CONST.		TO-F1-17X-700-1B	Riser Details - High Island Blk. A-515A Platform
FINAL		TO-F1-17X-700-1B1	Piping Details - Val. No. 17X-702
		TO-F1-17X-700-1M	Material

Tennessee Gas Pipeline Company
Division of Tenneco Inc.
Engineering Department Houston, Texas

DRAWN BY: D.L. DATE: 7-24-85
CHECKED BY: H.M.B. DATE: 7-25-85
CORRECT BY: OAB DATE: 8-85
APPROVED BY: HMA DATE: 8-7-85
SCALE: Shown

HIGH ISLAND BLK. A-515A LN.
LINE NO. 17X-700
HIGH ISLAND AREA, GULF OF MEXICO
VALVE SECTION ENTIRE LINE ON THIS SHEET

APPROVED BY: *William R. Ledbetter, Jr.*
8-6-85 for ASST. CHIEF ENGINEER
TENNESSEE GAS PIPELINE CO.
TO-F1-17X-700-1

BEST AVAILABLE COPY

In Reply Refer To: RP-2-2

APR 16 1986

Clayton, Byerly
(713) 556-0835

Tenneco Oil Company
Attention: Mr. Jim Bacque
Post Office Box 39100
Lafayette, Louisiana 70503

Gentlemen:

Please furnish proof of construction in accordance with 30 CFR 256.95 on the following pipeline rights-of-way:

CCS-G Number

Date of Permit

~~8291~~

12/13/85

~~7109~~

9/12/84

~~7535~~

11/26/84

(Orig. Sgd.) A. Donald Giroir

Acting Regional Supervisor
Rules and Production

Enclosure

bcc: SEQ-1b (RP-2-2)

CWilliams:jj:4/14/86:PC Disk 2

ASB
Houston

Tennessee Gas Pipeline
Division of Tenneco Inc

Division "A" Office
16010 Barkers Point Lane
P. O. Box 2511
Houston, Texas 77001
(713) 556-0835

67109



October 19, 1984

RECEIVED
OCT 22 1984
Minerals Management Service
Rules and Production

Minerals Management Service
Rules and Production (RP-2-2)
Attn: Mr. Autrey Britton
P. O. Box 7944
Metairie, Louisiana 70010

RE: Proposed 6" Offshore Natural
Gas Pipeline-High Island Area
Blocks A-515 & A-526

Dear Mr. Britton:

This will confirm your telephone conversation with our Mr. J. Wilson concerning the captioned project.

Please be advised that construction of the pipeline will begin about October 22, 1984, using Brown and Root Barge No. 278 which is equipped with a heliport. Construction should begin at the platform and proceed toward the sub-sea valve.

Very truly yours,

TENNESSEE GAS PIPELINE COMPANY

J. R. Quasny
Division Right of Way Supervisor

JRQ:clb
cc: Division "A" Files

Britton 9/10/84
Kelly 9/10/84
Stauffer 9/10/84

SN 7183

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SEP 12 1984

In Reply Refer To: RP-2-2
OCS-G 7109

High Island Area
South Addition

Tenneco Inc.

Right-of-Way

ACTION: APPLICATION APPROVED

Your application for a right-of-way 200 feet in width for the construction, maintenance, and operation of a 6 5/8-inch natural gas pipeline, 1.77 miles in length, from Tenneco Oil Company's Platform A in Block A-515, High Island Area, South Addition, to a subsea tie-in with High Island Offshore System's 30-inch pipeline (OCS-G 3302) in Block A-526, High Island Area, South Addition, dated June 5, 1984, with its attachments, is hereby approved subject to the following:

Prior to construction, buoy the following pipelines to prevent possible damage from lay barge anchors:

<u>Name</u>	<u>Diameter (inches)</u>	<u>Block</u>
High Island Offshore System	30	A-526
Trunkline Gas Company	8	A-526

(Orig. Sgd.) D.W. Solarias

For
John L. Rankin
Regional Manager

cc: U.S. Fish and Wildlife Service
Southwest Region
Post Office Box 1306
Albuquerque, New Mexico 87103

Department of Transportation
2320 La Branch, Room 2116
Houston, Texas 77004 (w/enclosures)

bcc: P/L OCS-G 7109 (LE)
P/L OCS-G 7109 (RP-2-2)
RM Reading File
LE-5 L. Dauterive

ABritton:lv:9/10/84:Disk 6



UNITED STATES DEPARTMENT OF THE INTERIOR
MINERALS MANAGEMENT SERVICE
GULF OF MEXICO OCS REGION
IMPERIAL OFFICE BLDG., 3301 N. CAUSEWAY BLVD.
P. O. BOX 7944
METAIRIE, LOUISIANA 70010

504-837-4720

AUG 2 1984

In Reply Refer To: RP-2-2

Tenneco Inc.
 Attention: Mr. J. R. Quasny
 16010 Barkers Point Lane - Suite 300
 Houston, Texas 77079

RECEIVED
 AUG 13 1984
 Minerals Management Service
 Rules and Production

Gentlemen:

We have received your application for a right-of-way for the construction, maintenance, and operation of the following pipeline, OCS-G 7109, located in High Island Area, South Addition:

<u>Pipeline Segment No.</u>	<u>Size (inches)</u>	<u>Length (feet)</u>	<u>Service</u>	<u>From</u>	<u>To</u>
7183	6 5/8	9,357	Gas	Platform A Block A-515	A 12 3/4-inch H.I.O.S. subsea tie-in Block A-526

The proposed installation of this pipeline is under review for approval; however, the enclosed duplicate original of this letter containing an appropriate paragraph for signature by an authorized officer, denoting your consent and acceptance of the stipulation when executed, must be received as a condition precedent to granting the right-of-way.

Sincerely yours,

Kent E. Stauffer
 for D. W. Solanas
 Regional Supervisor
 Rules and Production

STIPULATION

Tenneco Inc. hereby agrees to keep open at all reasonable times for inspection by the Minerals Management Service, the area covered by this right-of-way and all improvements, structures, and fixtures thereon and all records relative to the design, construction, operation, maintenance, and repairs, or investigations on or with regard to such area.

J.R. Quasny
 Authorized Officer-J. R. Quasny, Agent and Attorney-in-fact

Date: August 8, 1984

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Date: August 1, 1984

To: Right-of-Way Pipeline File OCS-G 7109 (LE)
Through: Supervisor, Platform/Pipeline Unit, Plans, Platform and Pipeline Section, Rules and Production, Gulf of Mexico OCS Region (RP-2-2) RL
From: General Engineer, Platform/Pipeline Unit, Plans, Platform and Pipeline Section, Rules and Production, Gulf of Mexico OCS Region (RP-2-2)
Subject: Pipeline Right-of-Way Application, Technical Review, TENNECO INC. OCS-G 7109

<u>Size (inches)</u>	<u>Length (feet)</u>	<u>Service</u>	<u>From</u>	<u>To</u>
<u>6 5/8</u>	<u>9,357</u>	<u>GAS</u>	<u>Platform A</u>	<u>30-INCH HIOS.</u>
			<u>Block A-515</u>	<u>SSTI, Block A-526</u>
			<u>HIGH ISLAND AREA, So. ADD.</u>	<u>HIGH ISLAND AREA, So. ADD.</u>

Recommendations:

- 1. The technical aspects of the proposed pipeline are acceptable in accordance with appropriate Regulations and Standards.
- 2. Advise applicant of Notice to Lessees and Operators No. 83-3.
- 3. Valve protection cover shall not protrude above the level of the mud line.
- 4. Subsea valves and taps associated with this pipeline shall be provided with a minimum of three feet of cover, either through burial or with sandbags.
- 5. _____

A. Britton

A. Britton

cc: 1502-01 OCS-G 7109 (w/oria appln) (Seq. 7183) (RP-2-2)

OPS-4 (w/cy of plat)

ABritton:lv:Disk 6

*on map
K4
9/27/84*

- 9. The pipeline boarding the platform/pipeline is equipped with a check valve.
- 10. The pipeline leaving the platform is equipped with a check valve.
- 11. The high-low pressure sensors on the departing pipeline is located upstream of the check valve.
- 12. Where applicable, high-low sensors are located downstream of the back pressure regulator.
- 13. If there is liquid injection into the line, are pumps associated with the injection? (Yes or No) NO
- 14. Direction of flow indicated.
- 15. Pipe specifications (i.e., size, grade, weight, and wall thickness).
- 16. Total length of proposed pipeline (feet and miles).
- 17. MAOP of connecting pipeline. 1,440 PSIG (OCS-G 3302)
- 18. Statement that design meets or exceeds DOT Regulations 192 or 195, as applicable, and/or applicable OCS orders, registered engineer's seal, registration number, date, and signature.
- 19. Area and block number of proposed pipeline/platform.
- 20. Cathodic protection specifications.

C. Design Information - Verify that the pipeline design information given in the application and/or on the data sheet is complete and correct:

1. Product to be transported: Natural GAS

2. Pipeline, riser, and subsea valve assembly specifications:

- (1) Size 6.625" Wall Thickness .375" Grade B Weight 25.03 lbs/ft.
- (2) Size _____ Wall Thickness _____ Grade _____ Weight _____ lbs/ft.
- (3) Size _____ Wall Thickness _____ Grade _____ Weight _____ lbs/ft.

b. Riser:

- (1) Size 6.625" Wall Thickness .432" Grade B Weight 28.57 lbs/ft.
- (2) Size _____ Wall Thickness _____ Grade _____ Weight _____ lbs/ft.
- (3) Size _____ Wall Thickness _____ Grade _____ Weight _____ lbs/ft.

c. Subsea valve assembly:

- (1) Size _____ Wall Thickness _____ Grade _____ Weight _____ lbs/ft.
- (2) Size _____ Wall Thickness _____ Grade _____ Weight _____ lbs/ft.

3. Water depth: Maximum -204 Minimum -206

4. Type of corrosion protection:

a. Impressed current system

b. Sacrificial anode system

(1) Type of anode ZINC

(2) Spacing interval 4.578 ft.

(3) Weight of unit anode given by applicant 640 lbs. ea.

c. If platform anodes are used, are they considered adequate?

Yes _____ No _____

d. If pipeline anodes are used:

Formula: $L_{p/1} = 3.82 \times 10^4 \times W^0 / D \times I \times R = 35200 \times 600 / 6.625 \times 4.578 \times 26 = 31 \text{ yr}$

Where:

W^0 = Weight of Anode unit (lbs)

D = Dia. of pipe (inches)

I = Separation between anodes (ft.)

R = the following lbs/amp/year (Rate of Consumption)

Aluminum or Galvalum = 7.6

Zinc = 26

Magnesium = 17.5

Does the calculated life expectancy equal or exceed 20 years?

Yes No _____

5. Description of protective coating:

a. Pipeline Epoxy, 14 mils thick

b. Riser Epoxy, 14 mils + 1 1/2" thick Concrete @ 140 PCF

c. Subsea valve assembly

N/A 6. Description of weighted coating:

a. Preconcrete coating _____

b. Density of concrete _____ PCF

c. Thickness of concrete _____

d. Thickness of asphalt _____

7. Calculate the specific gravity (one of the following formulae may be used).

✓ a. For epoxy coating: $SG = 2.865W/D^2 = 2.865 \times 25.03 / 6.625 = 1.63$

_____ b. Density comparison with fluid material: $SG = \frac{W+P}{\frac{A}{R}}$

_____ c. Lines with a specific thickness of concrete:

$$SG = \frac{RC + K_2}{R(T-K_1)^2} \left(\frac{W+P-RC}{K_3 R} \right)$$

_____ d. Lines having two coatings of enamel and a felt wrap, or only asphaltmastic coating:

$$SG = \frac{W+P}{K_3}$$

Where:

- SG = specific gravity
- RC = density of concrete (lb/cu. ft.)
- K₁, K₂, K₃ = coefficients
- T = thickness of concrete coating (inches)
- W = weight of bare pipe (lb/ft)
- P = weight of coating
- R = density of fluid material (lb/cu. ft.); i.e., sea water = 64 lbs/cu. ft.
- D = diameter of pipe (inches)
- A = cross-sectional area

✓ 8. Given specific gravity
a. 1.62 b. _____ c. _____

✓ 9. Gravity or density of product(s) 1.60

✓ 10. Design capacity of pipeline 10 MMPCF/D

✓ 11. Given Hydrostatic Test Pressure: Line Pipe 2160 ^{PSIG} Hold Time 8 hrs.
Preinstallation Test ✓ Riser 2160 ^{PSIG} Hold Time 4 hrs.

Recommended maximum hydrostatic body test for ANSI valves, flanges, and fittings are as follows:

- ANSI 300 - 1,100 psig
- ANSI 400 - 1,450 psig
- ANSI 600 - 2,175 psig
- ANSI 900 - 3,250 psig
- ANSI 1,500 - 5,400 psig

Note: Minimum hold times:

Gas = Line Pipe = 8 hrs.
 Riser = 4 hrs. (pretest)
 or DOT 192.507(c)

Liquid = 4 hrs. @ 125% of MOP
 Plus 4 hrs. @ 110% if leak inspection is not viable during test

12. Maximum Allowable Operating Pressure (MAOP) of line pipe:

MAOP = $\frac{2st}{D} \times F \times E \times T$ Note: F = .72; E = 1; T = 1

a. MAOP = $\frac{2 \times 35,000 \times .375}{6.625} \times .72 = 2,853 \text{ Psig}$

b. MAOP =

c. MAOP =

13. MAOP of riser pipe.

Note: F = .50 for risers on natural gas transmission lines.

Note: F = .60 for risers on liquid pipelines.

a. MAOP = $\frac{2 \times 35,000 \times .432}{6.625} \times .50 = 2,282 \text{ Psig}$

b. MAOP =

14. MAOP of flanges, fittings, and valves:

2.4 x ANSI rating = $2.4 \times 600 = 1,440 \text{ Psig}$

15. MAOP of proposed pipeline as determined in accordance with Title 49 CFR Part 195 or 192, as applicable, is 1,440 psig.

16. Items 12, 13, and 14 above are equal to or more than the maximum allowable working pressure (MAWP) of source.

17. Verify: 1:25 maximum source pressure (MSP) \leq hydrostatic test pressure (HTP) \leq .95 (smaller IP @ SMYS of items 12 or 13 above)

$1,800 \leq 2,160 \leq 3,764$

Note: The recommended limit of test as a percentage of internal pressure @ specified minimum yield strength is equal to 95%:

IP @ SMYS = $\frac{2 \times s \times t}{D} = 3,962 \text{ Psig}$

18. Verify MAOP does not exceed the lowest of the following:

a. Suomerged components: HTP/1.25 = $1,728 \text{ Psig}$

b. Riser: HTP/1.5 = $1,440 \text{ Psig}$

N/A 19. Valve guards used: Yes _____ No _____

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D. Installation Requirements:

- 1. All pipelines will be installed or laid to a minimum of three feet below the level of the mudline out to and including the 200 foot water depth, except at pipeline crossings. Any deviation must be justified at the time of application.
- 2. All valves and taps must be provided with a minimum of three feet of actual cover either with soil or sandbags or jetted to a minimum of three feet below the mudline. If BLM-approved valve protection covers are used, the valves and taps are NOT required to have a minimum of three feet of actual cover or jetted three feet below the mudline. However, the top of the valve protection cover shall not protrude above the level of the mudline. Any deviation must be justified at the time of application.

E. Pipeline Crossings:

- N/A 1. All pipeline crossings in water depths up to and including 200 feet shall be cement-bagged with a minimum of 18 inches between the lines with the uppermost line having a minimum of 3 feet of cover in the form of cement bags installed so as to provide a three foot horizontal to a one foot vertical (3:1) slope with a crown width that is one and one-half (1½) times the pipe diameter. Any deviation must be justified at the time of application.
- N/A 2. All pipeline crossings in water depths greater than 200 feet shall be cement bagged with a minimum of 18 inches between the lines and installed so as to provide a three foot horizontal to a one foot vertical (3:1) slope. Any deviation must be justified at the time of application.

F. Construction Information:

- 1. Proposed construction commencement date August 1, 1984
- _____ 2. Method of construction
- _____ 3. Method of burial
- _____ 4. Time required to lay pipe
- 5. Time required to complete project September 1, 1984

G. Applicant complies with current OCS pipeline guidelines:

Yes No _____

UNITED STATES GOVERNMENT
MEMORANDUM

BEST AVAILABLE COPY

Date June 29, 1984

To: Chief, Plans, Platform, and Pipeline Section, Offshore Rules
and Production, GOM Region (RP-2)

From: Chief, Environmental Operations Section, Leasing and Environment,
GOM Region (LE-5)

Subject: National Environmental Policy Act (NEPA) Review for Pipeline Right-of-Way
Application OCS-G 7109

Tennessee Gas Pipeline Company
Pipeline Right-of-Way
High Island, South Addition Blocks A-515, A-526

Right-of-Way two hundred feet (200') wide to construct a 6-inch pipeline
from the Tenneco platform in Block A-515 to a subsea tie-in with the H.I.O.S.
30-inch pipeline in Block A-526.

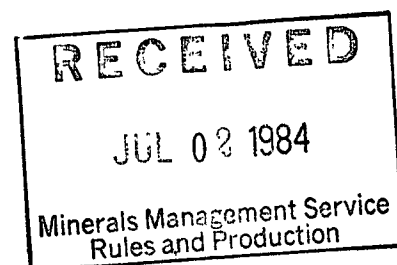
Our NEPA review of the subject action is complete. The following environmental protective measures intended to avoid or mitigate potential impacts associated with the action are provided for inclusion in the plan/application approval letter:

The following pipeline(s) shall be buoyed prior to construction to prevent possible damage from lay barge anchors:

<u>Name</u>	<u>Diameter (inches)</u>	<u>Block(s)</u>
Mesa High Island Offshore System <i>af</i>	30	A-526
Trunkline	8	A-56 526 <i>af</i>

Les Dauterive
Les Dauterive

ODeWald:dfs

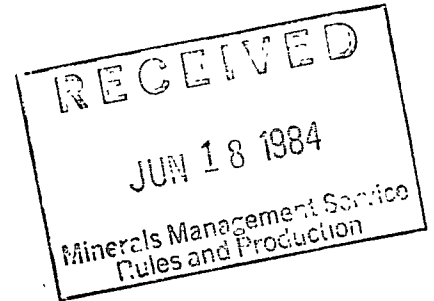


Tennessee Gas Pipeline
Division of Tenneco Inc

Division "A" Office
Suite 300
16010 Barkers Point Lane
Houston, Texas 77079
(713) 556-0835



June 5, 1984



D. W. Solanas, Regional Supervisor
Minerals Management Service
Rules and Production (RP-2-2)
P. O. Box 7944
Metairie, Louisiana 70010

RE: Application - Right of Way for 6"
Natural Gas Pipeline in High
Island Area, South Addition, Gulf
of Mexico, A-515 and A-526

Dear Mr. Solanas:

Pursuant to the authority granted in Section 5 (e) of the Outer Continental Shelf Lands Act (67 Stat. 462) (43 U.S.C. 1331), as amended (92 Stat. 629), and in compliance with the regulations contained in Title 30 CFR 256, Sub-Part N, Tennessee Gas Pipeline Company, a division of Tenneco Inc., is filing this application for a right of way two hundred feet (200') in width for the purpose of constructing and maintaining a six (6") inch natural gas pipeline in the High Island Area, South Addition, Gulf of Mexico. Tennessee Gas Pipeline Company, a division of Tenneco Inc., agrees that said right of way, if approved, will be subject to the terms and conditions of said regulations.

This pipeline will be used to gather and transport natural gas from Tenneco Oil Company platform in Block A-515, High Island Area, in the Gulf of Mexico. The tentative construction date is August 1, 1984, and tentative completion date is September 1, 1984.

As set forth in the February 13, 1978, guidelines, the applicant agrees to furnish the following:

1. Letter of Application, in triplicate.
2. Certified and Return Receipts with copies of letter of notification to each lessee or right of way holder whose lease or right of way is affected by this application. Such lessees and right of way holders are identified on "Exhibit A" attached hereto.
3. Six (6) blue line prints of Drawing No. TA-L1-F17X-700-1, TA-L1-F17X-700-1A, TA-L1-F17X-700-1B, and TA-L1-F17X-700-1C, showing the location, profile and route of the proposed pipeline, and Hi-Lo Censor locations.

4. Bury all pipelines to a minimum of 3 ft. of cover up to the 200 ft. contour.
5. Bury all sub-sea valves to a minimum of 3 ft. of cover.
6. A hazard survey report of the proposed right of way route is attached in duplicate.
7. ~~An archaeological survey report as stipulated in requirements is attached in duplicate.~~
8. In accordance with the guidelines, an As-Built map and Hydrostatic Test Data will be provided within 90 days after completion of the pipeline.
9. Safety devices will be provided as set forth on attached Schematic Drawing No. TA-L1-F17X-700-1C.
10. Proper notification prior to construction and hydrostatic testing will be adhered to.
11. Any pipeline crossing will be in compliance with the guidelines as set forth.
12. Any breaks, leak failures or accidents will be reported as required.

In addition to the above information, applicant submits the following information:

1. Water depth along route of proposed pipeline and pipeline in relationship to natural bottom as set forth on attached Drawing No. TA-L1-F17X-700-1B.
2. The description of the pipe and coating is as follows:

a. Line Pipe

6.625" OD x .375 W.T. Gr. B: Weight Bare-
25.032#/ft. coated with 14 mils of heat cured epoxy giving
a specific gravity of 1.62 in salt water (64#/cu. ft.)

b. Riser Pipe

6.625 OD x .432" W.T. Gr. B: Weight Bare -
28.57 #/ft. coated with 14 mils of heat cured epoxy and
weighted with a continuous coat of 140 density concrete
1-1/2" thick, giving a specific gravity of 2.03 in salt
water (64#/cu. ft.)

c. Internal Coating

The analysis of the transported products will be monitored
and preventive measures such as pigging and/or inhibiting
will be employed as necessary.

3. Valves and Flanges
 - a. Below water valves and flanges will be A.N.S.I. 600# series with a rated working pressure of 1,440# P.S.I.
 - b. Above water valves and flanges will be A.N.S.I. 600 series with a rated working pressure of 1,440# P.S.I.
4. The specific gravity of the product being transported is anticipated to be .60 (Air = 1.0), T = 60°F.
5. Weight, type and spacing of anodes to be used as corrosion protection are shown on attached Drawing no. TA-L1-F17X-700-1C entitled "Schematic". The life expectancy of the proposed pipeline is indefinite. The sacrificial anodes are designed for 40 year life and are to be replaced as necessary to extend life of pipeline.
6. The design of the proposed pipeline is in accordance with the "Minimum Federal Safety Standards (Department of Transportation) Title 49, CFR, Part 192".
7. Maximum Allowable Operating Pressure (M.A.O.P.) = 1,440# P.S.I.G.

Maximum Capacity = 10 MMCF/D

Maximum Operating Pressure (M.O.P.) is less than or equal to 1,440# P.S.I.G.

Minimum Operating Pressure = 500# P.S.I.G.

A. Calculations

Formulas:

$$P = \frac{2st}{d}$$

$$M.A.O.P. = \frac{2st (F) (E) (T)}{d}$$

Whereas: P = 100% S.M.Y.S.

s = Specified Minimum Yield Strength

t = Nominal Wall Thickness in Inches

d = Nominal Outside Diameter in Inches

(F) = 0.50 for Riser Pipe

= 0.72 for Line Pipe

As per Title 49, CFR, Part 192.619

(E) = 1 - for seamless and DSA welded pipe

(T) = 1 - for temperature less than 250°F

- a. Riser Pipe

$$\frac{6.625'' \text{ OD} \times .432'' \text{ W.T. Gr. B}}{2 \times 35000 \times .432} = 4.565 \text{ P.S.I.G.}$$

$$P = \frac{2 \times 35000 \times .432}{6.625} = 4.565 \text{ P.S.I.G.}$$

(1) M.A.O.P. (Design)

$$\text{M.A.O.P.} = \frac{2 \times 35000 \times .432 \times 0.50 \times 1 \times 1}{6.625} = \underline{2283 \text{ P.S.I.G.}}$$

(2) M.A.O.P. (Hydrostatic Test Pressure)

$$\begin{aligned} \text{H.T.P.} &= P \times 95\% \\ &= \frac{4565 \times .95}{1.25} = \underline{4337 \text{ P.S.I.G.}} \\ \text{H.T.P. will be } &2,160\# \text{ P.S.I.G. for 4 hrs.} \\ \text{M.A.O.P.} &= \frac{2,160}{1.25} = 1,440\# \text{ P.S.I.G.} \end{aligned}$$

(3) M.A.O.P. = $\frac{2,283}{1,440\#}$ P.S.I.G. (Design) or
P.S.I.G. (H.T.P.)

b. Line Pipe

$$P = \frac{6.625'' \text{ OD} \times .375 \text{ W.T. Gr. B}}{2 \times 35000 \times .375} = \underline{3962 \text{ P.S.I.G.}}$$

(1) M.A.O.P. (Design)

$$\text{M.A.O.P.} = \frac{2 \times 35000 \times .375 \times .72 \times 1 \times 1}{6.625} = \underline{2853 \text{ P.S.I.G.}}$$

(2) M.A.O.P. (Hydrostatic Test Pressure)

$$\begin{aligned} \text{H.T.P.} &= P \times 95\% \\ &= \frac{3962 \times .95}{1.25} = \underline{3763 \text{ P.S.I.G.}} \\ \text{H.T.P. will be } &2,160\# \text{ P.S.I.G. for 8 hrs.} \\ \text{M.A.O.P.} &= \frac{2,160}{1.25} = 1,728\# \text{ P.S.I.G.} \end{aligned}$$

(3) M.A.O.P. = $\frac{2,853}{1,728\#}$ P.S.I.G. (Design) or
P.S.I.G. (H.T.P.)

Since there are A.N.S.I. 600 series valves in the system, the M.A.O.P. therefore, is restricted to 1,440# P.S.I.G.

8. The producers equipment will be designed for 1,440# P.S.I.G.

9. Company contact:

Mr. Sanford Krenek
Division Supervisor of Engineering
16010 Barkers Point Lane Suite #300
Houston, Texas 77079
713/556-0835

This application (and any amendments made hereto) is made with our full knowledge and concurrence with the OCS Lands Act (43 U.S.C. 1331, et seq.), as amended, (P.L. 95-372), including the following: Sec 5(e) addressing pipeline rights of way, requirements of the Federal Energy Regulatory Commission relating to notice of hearing, transportation and purchase of oil and gas without discrimination; Sec. 5(f) (1) addressing operation of pipelines in accordance with competitive principles, including open and nondiscriminatory access to both owner and non-owner shippers; Sec. 5(f) (2) which may allow exemption of the requirements in Sec. 5(f) (1); Sec. 5(e), addressing the assuring of maximum environmental protection, including the safest practices for pipeline installation; and Sec. 5(f) (1) (B) which may require expansion of throughput capacity of any pipeline except for the Gulf of Mexico or the Santa Barbara Channel.

Additionally, we expressly agree that if any site, structure, or object of historical or archaeological significance should be discovered during the conduct of any operations within the permitted right of way, we shall report immediately such findings to the Regional Supervisor, Metairie OCS office, and make every reasonable effort to preserve and protect the cultural resource from damage until said Manager, has given directions as to its preservation.

Please refer to your miscellaneous 014 file for a copy of a resolution approved by the Board of Directors authorizing the undersigned as Supervisor - Right of Way of Tennessee Gas Pipeline Company, a division of Tenneco Inc., to sign for and on behalf of the Company.

We trust the above information will enable you to expedite the issuance of the Decision approving said right of way.

Very truly yours,

TENNESSEE GAS PIPELINE COMPANY
A division of Tenneco Inc.



J. R. Quasny
Right of Way Supervisor
Agent and Attorney-in-Fact

JRQ/eg
Certified Mail - Return Receipt#
Doc. #0043R

"E X H I B I T A"

On this date, _____, the following Lessee(s) and right of way holders(s) were notified by Registered Mail, Return Receipt Requested:

High Island Block A-515
South Addition

Pogo Producing Company_ _ _ _ _ OCS-G 4189
Tenneco Oil Company _ _ _ _ _ OCS-G 4189
High Island Offshore System Pipeline_ _ _ _ _ OCS-G 3302

High Island Block A-526
South Addition

High Island Offshore System Pipeline_ _ _ _ _ OCS-G 3302
Trunkline Gas Company _ _ _ _ _ OCS-G 5131

NOTE: This form must be executed as an original.

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**UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT**

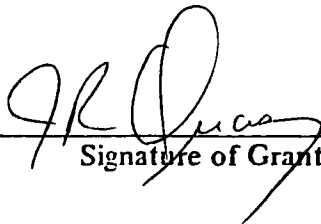


NONDISCRIMINATION IN EMPLOYMENT

As a condition precedent to the approval of the granting of the subject pipeline right-of-way, the grantee Tennessee Gas Pipeline Company, a division of Tenneco, Inc., hereby agrees and consents to the following stipulation which is to be incorporated into the application for said right-of-way.

During the performance of this grant the grantee agrees as follows:

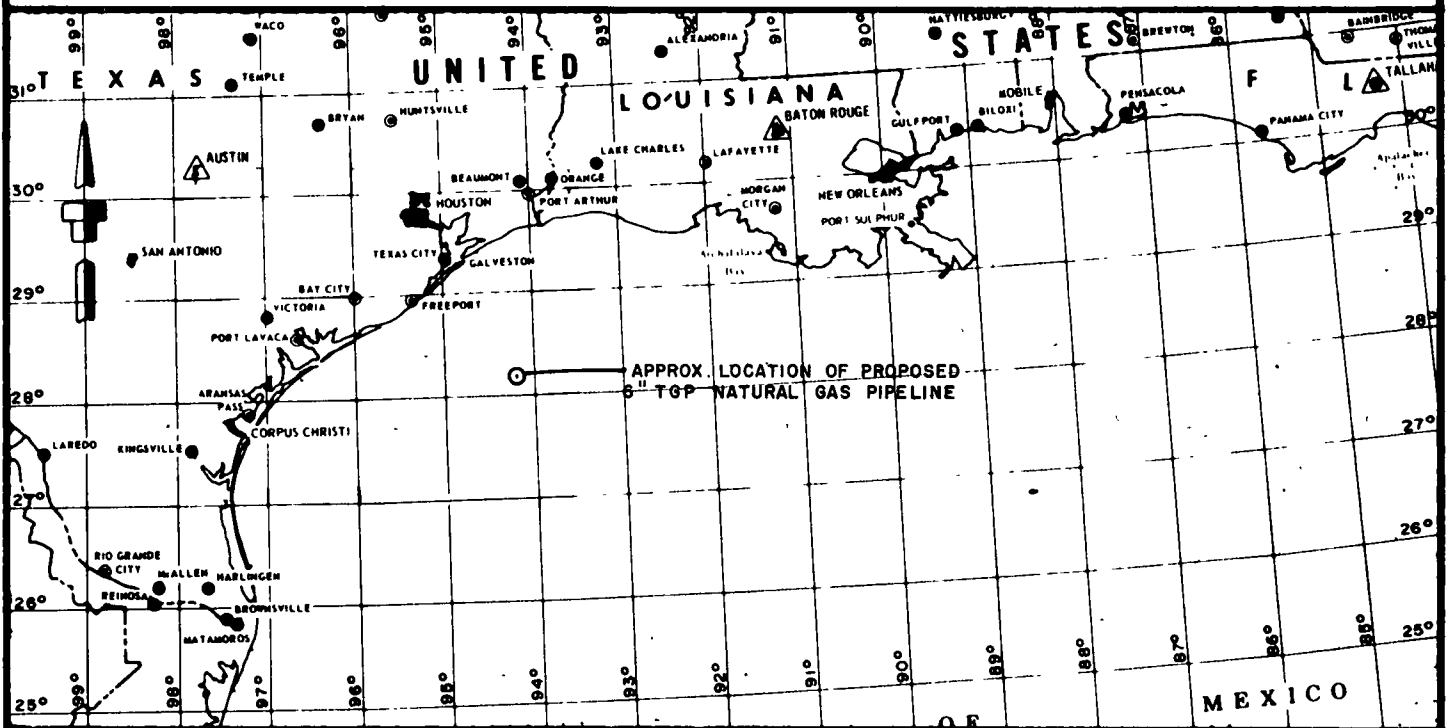
During the performance under this grant, the grantee shall fully comply with paragraphs (1) through (7) of section 202 of Executive Order 11246, as amended, (reprinted in 41 CFR 60-1.4 (a)), which are for the purpose of preventing discrimination against persons on the basis of race, color, religion, sex or national origin. Paragraphs (1) through (7) of section 202 of Executive Order 11246, as amended, are incorporated in this grant by reference.



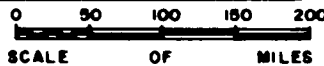
Signature of Grantee J.R. Quasny

Date: June 8, 1984

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VICINITY MAP



NOTES.

THIS PIPELINE TO BE USED TO TRANSPORT NATURAL GAS FROM THE OUTER CONTINENTAL SHELF TO EXISTING FACILITIES ON SHORE, TEXAS.

ALL BEARINGS SHOWN ARE LAMBERT

VICINITY MAP TAKEN FROM HURRICANE PLOTTING MAP.

PROPOSED WIDTH OF RIGHT-OF-WAY 200'

SPOIL TO BE DEPOSITED ON BOTH SIDES OF THE PIPE DITCH SO AS NOT TO INCREASE HEIGHT OF NATURAL BOTTOM OVER 0'-6"

PIPE DITCH TO BE EXCAVATED BY BARGE MOUNTED JET RIG

TOTAL EXCAVATION :

TOTAL LENGTH OF LINE IS 9,356.63 FT = 18 MI.

LOCATION OF RIGHT-OF-WAY HAS BEEN ACCURATELY DELINEATED UPON THIS MAP AND DESIGN COMPLIES WITH D.O.T. REGULATIONS

Harry M. McLeod

HARRY M. McLEOD
TEXAS REGISTERED PROFESSIONAL ENGINEER N° 14093

TA-LI-F17X-700-1C SCHEMATIC
TA-LI-F17X-700-1B PROFILE
TA-LI-F17X-700-1A PLAN

DRAWING NO.

TITLE

NO.	DATE	REVISION	REV.	CKD	APR	REFERENCE	DRAWINGS

DRAWN BY J C H.	DATE 5 84
CHECKED BY	DATE
CORRECT BY	DATE
APPROVED BY	DATE
SCALE SHOWN	C O 51831

TENNECO Tennessee Gas Pipeline Company
Division of Tenneco Inc
Engineering Department Houston, Texas

APPROVED BY
CHIEF ENGINEER

PROPOSED 6" NATURAL GAS PIPELINE IN THE
GULF OF MEXICO
CENTRALLY LOCATED APPROX. 90 MILES SOUTHEAST
OF FREEPORT HIGH ISLAND AREA SOUTH ADD., TEXAS

Tennessee Gas Pipeline Co.
TA-LI-F17X-700-1

0CS-G 7109

HIGH ISLAND AREA SOUTH ADDITION



A - 515

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A - 526

GULF

MEXICO

OF

PROPOSED 6" T.G.P Ln.No 17X-700
NATURAL GAS PIPELINE

H.I.O.S. PIPELINE CO.
EXISTING 12" Sub-Sea Valve

X = 3,544,490.96'
Y = 129,679.96'
LAT. = 28° 06' 10.6202"
LONG. = 94° 12' 31.0088"

S 10° 51' 38" E - 9,356.63 Ft

TENNECO OIL CO.
Bik A-515 PLATFORM
X = 3,542,728.00'
Y = 138,869.00'
LAT = 28° 07' 42.2384"
LONG = 94° 12' 46.4774"

Y = 134,640.00'

A - 514



A - 527

PLAN

3,000 1,500 0 3,000 6,000

SCALE IN FEET

LOCATION OF RIGHT-OF-WAY HAS
BEEN ACCURATELY DELINEATED
UPON THIS MAP AND DESIGN COMPLIES
WITH D.O.T. REGULATIONS

Harry M. McLeod

HARRY M. McLEOD

TEXAS REGISTERED PROFESSIONAL
ENGINEER No 14093

- ALL BEARINGS SHOWN ARE LAMBERT
- PIPELINE TO BE USED TO TRANSPORT NATURAL GAS FROM OFFSHORE TEXAS TO EXISTING SYSTEM
- PROPOSED WIDTH OF RIGHT-OF-WAY = 200'-0"
- TOTAL LENGTH OF PIPELINE 9,356.63' or 1.8 MILES

TA-LI-F17X-700-1C
TA-LI-F17X-700-1B
TA-LI-F17X-700-1

SCHEMATIC
PROFILE
VICINITY MAP

DRAWING NO

TITLE

NO DATE REVISION REV CKD APR

REFERENCE DRAWINGS

DRAWN BY J.C.H. DATE 5-84
CHECKED BY DATE
CORRECT BY DATE
APPROVED BY DATE
SCALE SHOWN C O 51831



Tennessee Gas Pipeline Company

Engineering Department

Houston, Texas

APPROVED BY

ASSY CHIEF ENGINEER

PROPOSED 6" NATURAL GAS PIPELINE IN THE
GULF OF MEXICO

CENTRALLY LOCATED APPROX. 90 MILES SOUTHEAST
OF FREEPORT HIGH ISLAND AREA SOUTH ADD., TEXAS

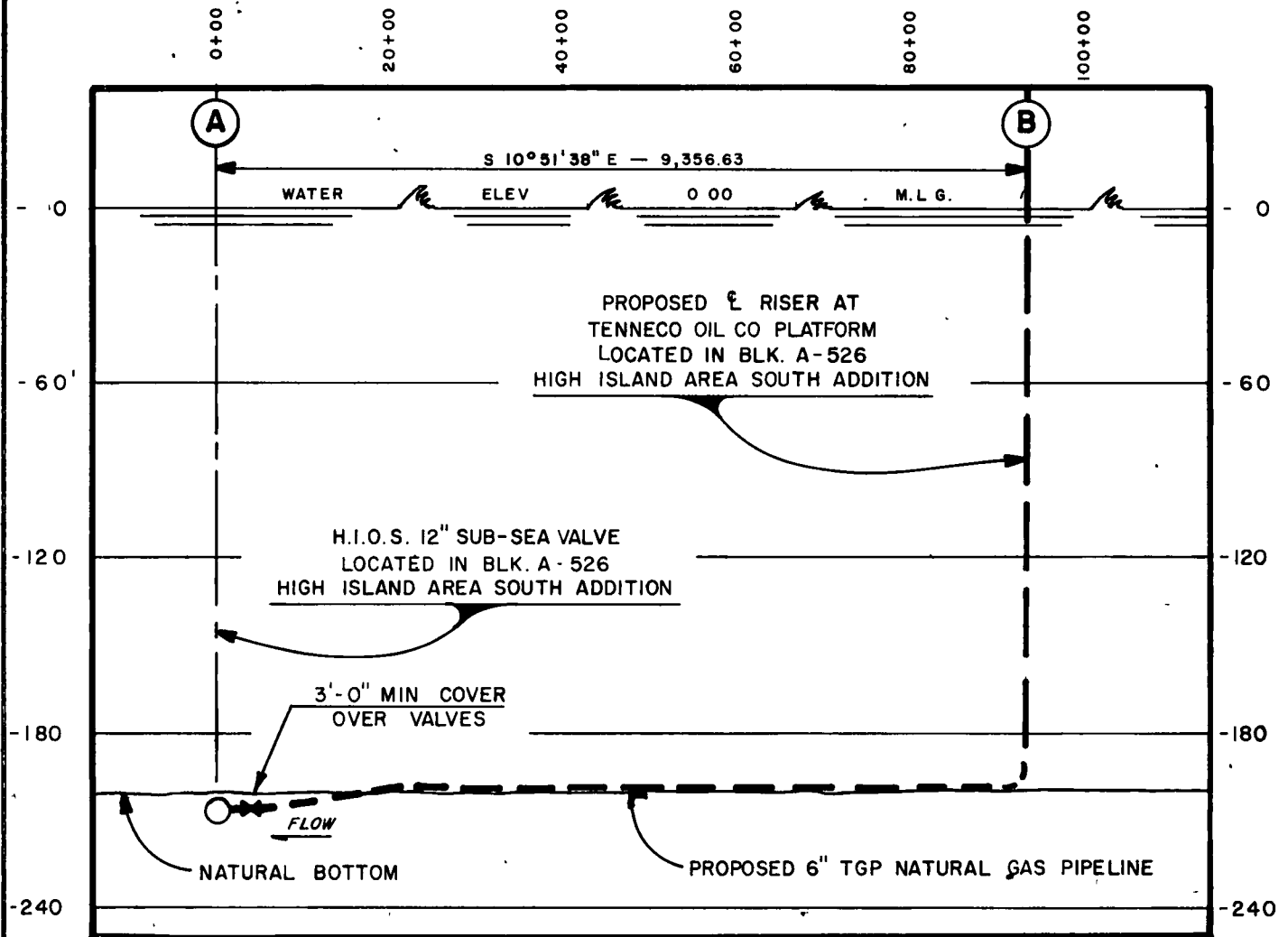
Tennessee Gas Pipeline Co.

TA-LI-F17X-700-1A

OCS-G 7109

HIGH ISLAND AREA SOUTH ADDITION

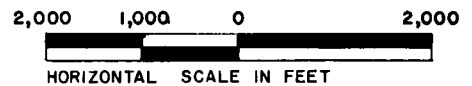
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WATER DATUM : MEAN LOW GULF



PROFILE



Handwritten signature

TA-LI-F17X-700-1C
TA-LI-F17X-700-1A
TA-LI-F17X-700-1

SCHEMATIC
PLAN
VICINITY MAP

DRAWING NO

TITLE

NO	DATE	REVISION	REV	CKD	APR

REFERENCE DRAWINGS

DRAWN BY J.C.H.	DATE 5-84
CHECKED BY	DATE
CORRECT BY	DATE
APPROVED BY	DATE
SCALE SHOWN	C O 51831



Tennessee Gas Pipeline Company

Engineering Department

Houston, Texas

APPROVED BY

ASST CHIEF ENGINEER

PROPOSED 6" NATURAL GAS PIPELINE IN THE
GULF OF MEXICO
CENTRALLY LOCATED APPROX. 90 MILES SOUTHEAST
OF FREEPORT HIGH ISLAND AREA SOUTH ADD., TEXAS

Tennessee Gas Pipeline Co.

TA LI F17X 700 IB

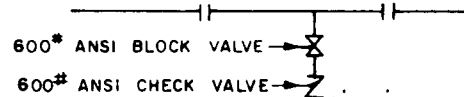
Handwritten number: OCS-G7109

M.A.O.P. 1440 "
 30" Q D. x .500" WT, Gr X60
 (OCS - G 3302)

SUB-SEA TIE-IN
HIGH IS. AREA S. ADD.
BLOCK A-526

NOTE

THE DESIGN CHARACTERISTICS OF THE PIPELINE ARE IN COMPLIANCE WITH DOT REGULATIONS



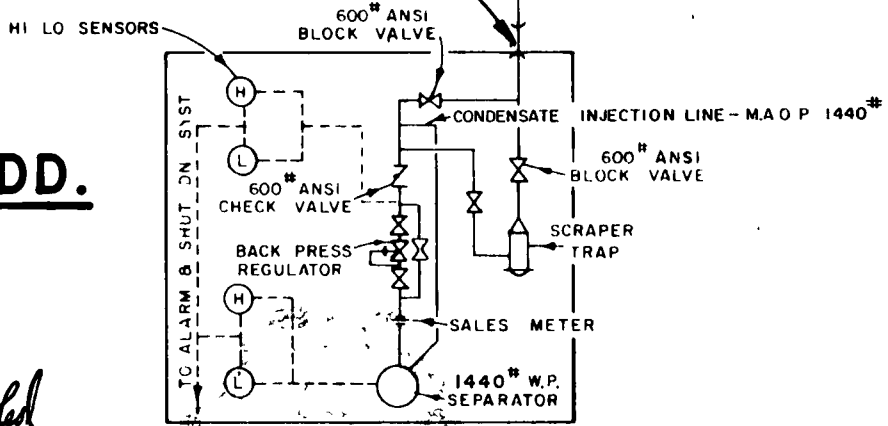
3 GROUPS OF 8 ANODES POSITIONED 100 FT. UPSTREAM OF SUB-SEA TIE IN AND 4,678 FT. UPSTREAM OF SUB-SEA TIE IN AND 9,256 FT. UPSTREAM OF SUB-SEA TIE IN (80# TAPERED ZINC BRACELET ANODES)

FLOW ↑

6.625" O D x 432" WT GR "B"

9,356 63 FT. 6.625" O D x .375" WT GR "B"

TENNECO
HIGH IS. AREA S. ADD.
BLOCK A-515



H/M McLeod

TA-LI-F17X-700-1C SCHEMATIC
 TA-LI-F17X-700-1B PLAN
 TA-LI-F17X-700-1 VICINITY MAP

NO	DATE	REVISION	REV	CKD	APR	REFERENCE DRAWINGS	TITLE
DRAWN BY J.C.H. DATE 5-84						Tennessee Gas Pipeline Company Engineering Department Houston, Texas	APPROVED BY
CHECKED BY							FOR CHIEF ENGINEER
CORRECT BY							Tennessee Gas Pipeline Co.
APPROVED BY							TA-LI-F17X-700-1C
SCALE NONE DATE C 51831						PROPOSED 6" NATURAL GAS PIPELINE IN THE GULF OF MEXICO CENTRALLY LOCATED APPROX. 90 MILES SOUTHEAST OF FREEPORT HIGH ISLAND AREA SOUTH ADD., TEXAS	

OCS-G 7109