SN 4875

WWilliamson 9/18/96
Alvarado 9-21-96

SEP 23 1996

In Reply Refer To: MS 5232

Tennessee Gas Pipeline Company
Attention: Mr. B. J. Chaney
Sugar Mill Point, 1115 Regal Row
Houma, Louisiana 70360

Gentlemen:

Your letter dated September 5, 1996, requests approval to permanently abandon in place approximately 5,128 feet (0.97 miles) of 16-inch pipeline designated as Segment No. 4875, and to relinquishment in its entirety, Right-of-Way Grant OCS-G 3648 associated therewith. The pipeline was used to transport gas from Platform B to a subsea tie-in with a 30-inch pipeline in Block 343, Eugene Island Area.

Pursuant to 30 CFR 250.4(b), approval is hereby granted to abandon the above described 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.

Pursuant to 30 CFR 250.150(b), the relinquishment of the right-of-way grant associated with the pipeline that is to be abandoned in place is hereby accepted effective September 9, 1996.

Sincerely,

R/a

Rg 3648

(Orig. Sgd.) Kent E. Stauffer

Donald C. Howard
Regional Supervisor
Field Operations

bcc: 1502-01 Segment No. 4875, ROW OCS-G 3648 (MS 5232)
1502-01 ROW OCS-G 3648 (Microfilm) (MS 5033)
MS 5421
MS 5232 Carto

WWilliamson:jvl:09/11/96:Tennesse.875

Rn 4875

9/24/96

Tennessee Gas Pipeline
Tenneco Energy
Sugar Mill Point
1115 Regal Row
Houma, Louisiana 70360

Tel 504 868 6785
Fax 504 868 1423

F.6

TENNECO Energy

September 5, 1996

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

Re: Permanent Abandonment and Relinquishment of Pipeline Right of Way, OCS-G 3648, Seg. No. 4875, Eugene Island Block 343-B Line

Dear Warren:

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 0.97 miles of twelve inch (12") pipeline in the Eugene Island Area, Offshore Louisiana.

The temporary cessation of the above pipeline was approved on June 7, 1996. 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 line was abandoned as proposed in August 1996.

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

Sincerely,

B. J. Chaney, Supervisor Rights
of Way as Agent and Attorney-in-Fact

BJC/KJC:kjc

cc: M. Taylor
P. Craft
M. Davis
A. Brake
File

MINERALS MANAGEMENT SERVICE
RECEIVED
SEP 09 1996
FILE
OPERATIONS
GOM OCS Region, New Orleans, LA

SN 4875

Patton 6-5-96

In Reply Refer To: MS 5232

JUN 07 1996

Tennessee Gas Pipeline Company
Attention: Mr. B. J. Chaney
Sugar Mill Point
1115 Regal Row
Houma, Louisiana 70360

Gentlemen:

Pursuant to the authority granted by 30 CFR 250.150(b), your request dated June 3, 1996 for the modification of Right-of-Way OCS-G 3648 to allow for the temporary cessation of operation of pipeline Segment No. 4875, is hereby approved, subject to the following conditions:

1. The annual rental required by 30 CFR 250.159(c)(2) shall continue to be due and payable in December of each calendar year.

2. Tennessee Gas Pipeline Company shall, upon receipt of the necessary documentations which are required by the Federal Energy Regulatory Commission under Tennessee Gas Pipeline Company's blanket abandonment authorization, file an application to permanently abandon the subject pipeline and relinquish the right-of-way grant.

Sincerely,

(orig. sgd.) A. P. Alvarado

Donald C. Howard
Regional Supervisor
Field Operations

bcc: 1502-01 (P/L OCS-G 3648) w/orig appln (MS 5232)
1502-01 (P/L OCS-G 3648) w/cy of appln (MS 5033)
MS 5232 Carto w/encl

FPatton:jvl:06/05/96:Tennesse.875

G 3648

for mgr 6/11/96

Tennessee Gas Pipeline
Tenneco Energy
Sugar Mill Point
1115 Regal Row
Houma, Louisiana 70360

Tel 504 868 6785
Fax 504 868 1423

5232 FAXT

TENNECO Energy

June 3, 1996

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

Attention: Warren Williamson

Re: Temporary abandonment of 12" natural gas pipeline, Eugene Island Block 343-B Line, OCS-G 3648, Seg. No. 4875

Dear Warren:

In accordance with Title 30 CFR Part 250, Subpart J, 250.156, Tennessee Gas Pipeline Company hereby requests approval to temporarily abandon the above referenced pipeline in the Eugene Island Area, Gulf of Mexico, Offshore Louisiana.

This pipeline extends from Delmar's Eugene Island Block 343-B platform to a sub-sea tie-in with Tennessee Gas Pipeline Company's existing 30" pipeline in Eugene Island Block 343. The procedure which will be used to abandon this facility is attached hereto. MMS records show this line to be 16" instead of the actual 12". Therefore, please adjust your records to reflect the actual diameter of the pipeline as 12".

Upon receipt of the necessary documentation, i.e., P & A reports, etc., which are required by FERC under TGP's blanket abandonment authorization, TGP will file to permanently abandon the above pipeline.

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

Also, enclosed are three copies of Drawings which have been red-marked to show the proposed work, along with a copy of Delmar's letter requesting removal of the pipeline facilities.

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

Sincerely,

B. J. Chaney, Supervisor Rights of
Way as Agent and Attorney-in-Fact

BJC/KJC:kjc

Enclosures

cc: M. Taylor
P. Craft
A. Brake
M. Davis
File

5-96 pjc

ABANDONMENT PROCEDURE
Eugene Island 343-B

1. Locate, uncover and close sub-sea Valve No. 523M-4601 in Euge Island block 343, open 2" by-pass valves. X = 1,958,071 Y = (-) 169,105

2. Install 12" Poly pig in pig trap at Delmar's Eugene Island 343-B Platform.

3. Launch and run pig with high pressure water. (5,450 ft. of 12.750" O. D. x .500 W. T. Pipe = 30,700 gallons.)

4. When pig reaches closed sub-sea valve at E.I. 343 assembly the pressure will spike, close 2" by-pass valves.

5. Bleed water pressure from line at E. I. 343-B platform.

6. Unbolt flanges at sub-sea tie-in station 0+24.7 (shown on drawing).

7. Jet down 12" pipeline and move away from the side valve assembly.

8. Install 12" foreman plug in pipeline at abandoned end, previously jetted down in step 7. Ensure pipeline has 3 ft. of cover.

9. Install 12" blind flange at station 0+24.7 on flange previously unbolted in step 6.

10. At Eugene Island 343-B platform, cut 12" pipeline sub-sea at base of riser at station 51+33 and at station 51+20, and remove ell and check valve (water depth 287 ft.) Remove section to surface vessel.

11. Install 12" foreman plug in abandoned end previously cut in step 10. Bury end to a minimum of 3 ft. of cover.

12. Cut riser at the working level, station 54+33.

DelMar
OPERATING, INC.

May 10, 1996

Mr. Paul Craft
Tennessee Gas Pipeline
1115 Regal Row
Houma, Louisiana 70360

Re: Eugene Island Block 343-B
Platform Abandonment and Removal

Dear Mr. Craft:

DelMar Operating, Inc. (DOI) is planning to abandon and remove the above referenced production facility in the summer of 1996. Records indicate that the departing sales pipeline is a lateral segment owned by Tennessee Gas Pipeline (TGP).

DOI hereby formally requests that TGP decommission and abandon the subject lateral pipeline segment prior to July 1996 so as not to interfere with the planned platform removal schedule.

If there are any questions and/or comments pertaining to this document, please contact me at 713-646-6637.

Sincerely,

Thomas P. Wachs

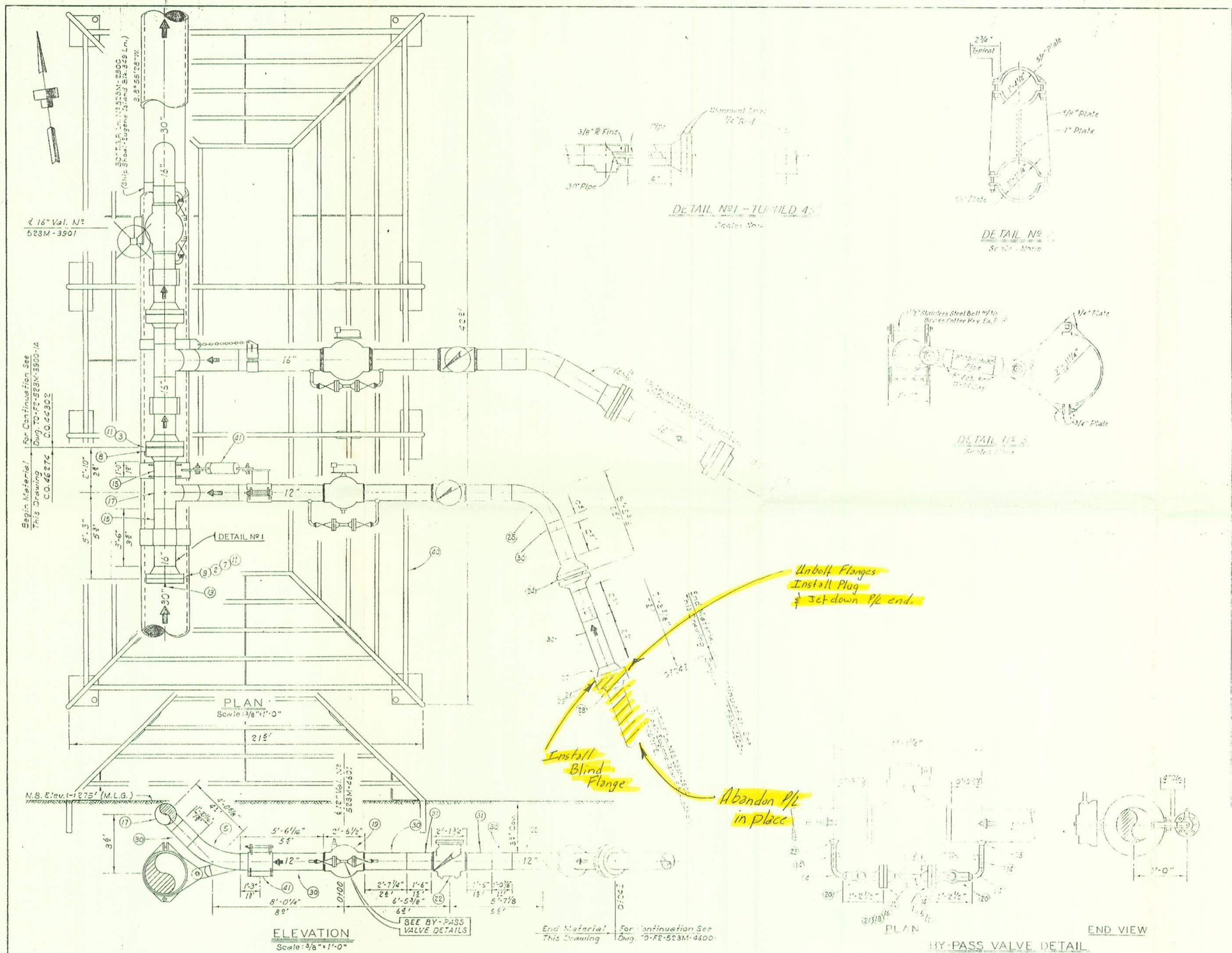
Thomas P. Wachs
Engineering Manager

xc: Mr. Stan Mendenhall - Bluewater Industries
Mr. Joe Satsky
Mr. Don Holt
Mr. Don Metz
Ms. Barbara Dougherty

h:\WACHS\050196.DOC

1100 Louisiana, Suite 900 • Houston, Texas 77002 • (713) 646-6600 • Fax: (713) 646-6666

BEST AVAILABLE COPY



MATERIAL SUMMARY

DESCRIPTION	ITEM Nº
7/8" x 6" Lg. Alloy Steel Stud w/2 Hex Nuts Ea.	1
1 3/8" x 12" Lg. Alloy Steel Stud w/2 Hex Nuts Ea.	2
1 3/8" x 15" Lg. Alloy Steel Stud w/2 Hex Nuts Ea.	3
2.375" O.D. x .218" W.T. Gr. B 90° L.R. Weld Ell (09' Lg.)	4
12.750" O.D. x .500" W.T. Gr. Y-42 45° 3D Weld Ell (29' Lg.)	5
2" A.N.S.I. 1500# R.F.W.N. Flange	6
16" A.N.S.I. 900# R.T.J. Blind Flange (C.D. & T. - 1/2" N.P.T.)	7
16" A.N.S.I. 900# Swivel Ring R.T.J. Flange	8
16" A.N.S.I. 900# R.T.J. W.N. Flange	9
2" A.N.S.I. 1500# Parker Gask-O-Seal (Series 6388 SS)	10
16" A.N.S.I. 900# Soft Iron Oval Ring R66	11
1/2" NH x 3" Lg. Pipe Nipple (T.S.E.)	12
1/2" A.N.S.I. 3000# F.S. Screwed Pleeco Plug (NYE-COATED)	13
2.375" O.D. x .218" W.T. Gr. B U.S. Steel Pipe	14
16" O.D. x .500" W.T. Gr. X-52 U.S. Steel Pipe	15
1/2" A.N.S.I. 3000# SS Screwed Hex Plug	16
16" O.D. x 12.750" O.D. x .500" W.T. Gr. Y-52 Reducing Weld Tee (29' Lg.)	17
2 - 1/4 x 1/2" 6000# F.S. Thread-O-Let (N.P.T.)	18
12" A.N.S.I. 900# Cameron Ball Valve (W x W) w/Waterproof Gearing And Handwheel (S/Nº 54319)	19
2" A.N.S.I. 1500# Cameron Ball Valve (F x W) w/Wrench	20
1/2" 3000# Jamesbury Ball Valve Nº HP 36 GT SS Type 316 (N.P.T.)	21
12" A.N.S.I. 900# Full Opening Charles Wheatley Swing Check Valve (W x W) w/Full Flow Thru Conduit With Outside Lever And Locking Device w/ 6" Lg. Gr. X-42 Pipe Ea. End	22
18" - 12" x 8" F.S. Weld-O-Let Butt-Weld (Sch 160)	23
12" A.N.S.I. 900# Flange-Lok Grayson Ball Connector c/w 29' Of .500" W.T. Gr. X-B J&L Pipe Each End	24
12.750" O.D. x .500" W.T. Gr. Y-52 66° 3DR Weld Ell (32' Lg.)	25
1 3/8" x 13" Lg. Alloy Steel Stud w/2 Hex Nuts Ea.	26
12" A.N.S.I. 900# R.T.J. W.N. Flange	27
12" A.N.S.I. 900# Swivel Ring R.T.J. Flange	28
12" A.N.S.I. 900# Soft Iron Oval Ring R57	29
12.750" O.D. x .500" W.T. Gr. X-52 U.S. Steel Pipe.	30
12.750" O.D. x .500" W.T. Gr. X-42 Pipe	31
21' x 42' Valve Guard (Complete)	40
12" Pipe Clamp And Brace (Complete) (Per Details Nº 2 & 3)	41

THIS DWG. CURRENT THRU. 11-14-79

REFERENCE DRAWINGS			
DRAWING NO.	TITLE	DRAWING NO.	TITLE
TO-F2-523M-4600-1	Alignment - 523M-4600 Line		
TO-F2-523M-3900-1A	Sub-Sea Valve Nº 523M-3901 Details		
TO-F2-523M-2300-2	Alignment - Ln. Nº 523M-2300		

REVISIONS					
NO.	DATE	REMARKS	REV.	CKD.	APP.

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

DRAWN BY C.N.B./R.A.S.M.	DATE 3-79	
CHECKED BY SKD	DATE 8-15-79	
CORRECT. BY RCJ	DATE 8-17-79	
APPROVED BY CVT	DATE 1-22-79	
	SCALE Shown	
ISSUE DATES	ORIGINAL 9-79	LAST 2-80

SHIP SHOAL - EUGENE ISLAND BLK. 343B LINE
LN. Nº 523M-4600
DETAILS
EUGENE ISLAND AREA, GULF OF MEXICO
VALVE SECTION

Abandonment
APPROVED BY J. P. Caldwell 8-29-79
ASST. CHIEF ENGINEER

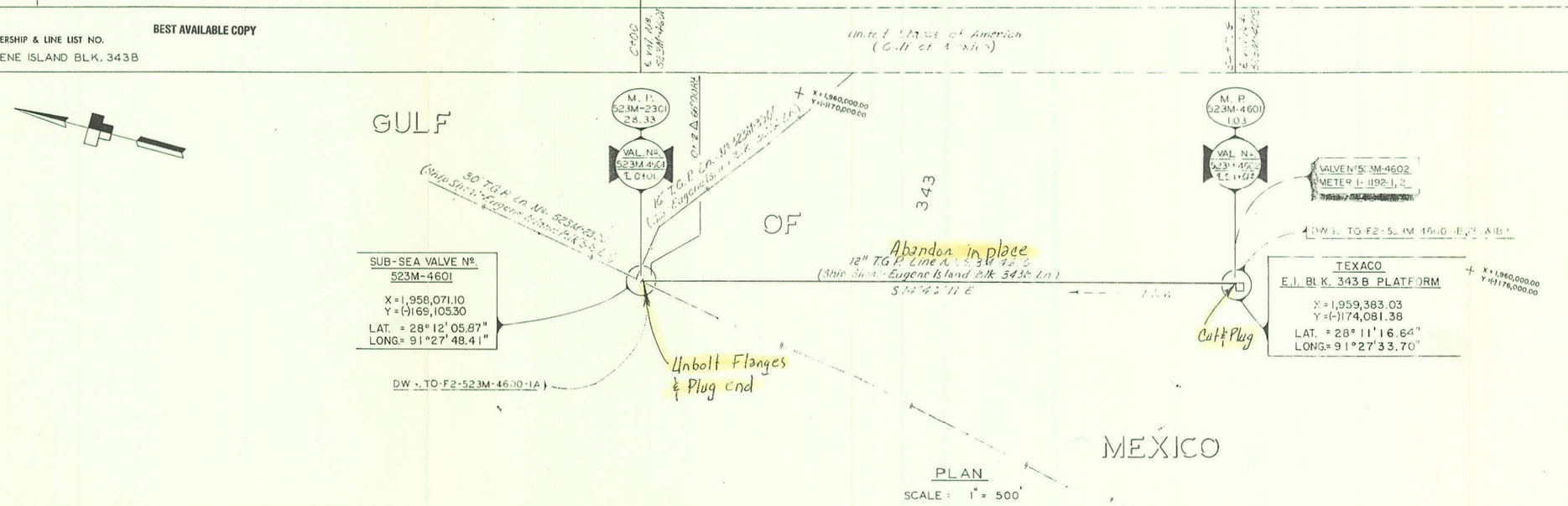
TENNESSEE GAS PIPELINE CO.
TO-F2-523M-4600-1A

TAX DISTRICT DATA	ZONE

OWNERSHIP & LINE LIST NO.

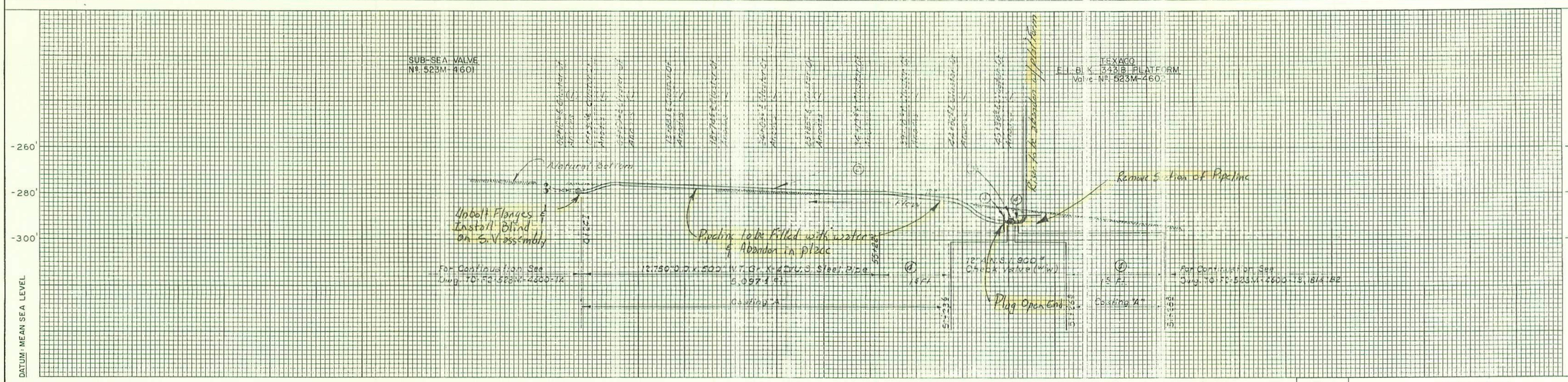
EUGENE ISLAND BLK. 343B

BEST AVAILABLE COPY



PLAN

SCALE: 1" = 500'



PROFILE

SCALE: HORIZ. 1" = 500'
VERT. 1" = 20'

WELDING PROCEDURE	MATERIAL SUMMARY		
	QUANTITY	ITEM NO.	DESCRIPTION
		1	Insulation, 12 In. Bare Pipe Type, Zone
		2	Pipe, 12.750" O.D. x .500" W.T. Gr. X-42 V U.S. Std. Pipe
		3	Valve, Tom Williams Swing Check 12" ANSI Class 300
		4	12.750" O.D. x .500" W.T. Gr. X 52 U.S. Steel Pipe
		~	Coating "A" - Concrete Coated To N.S.B. Neg. Buoy. Conc. 7mm Film

Abandonment

C.O. NUMBER & DESCRIPTION	COMPL. CONST. C.O. 560714	INSTALL INJECTION PUMP C050633					
PRELIM.							
CONST.	13						
FINAL	13						

F.R.C.D. BOOKS

REFERENCE DRAWINGS

DRAWING NO.	TITLE
TO-F2-523M-3300-1	Ln. Nº 523M-3300 ~ Alignment
TO-F2-523M-3500-1	Ln. Nº 523M-3500 ~ Alignment
TO-F2-523M-4600-1A	Val. Nº 523M-4601 Details
TO- " " -1B	Platform 343B Riser Details
TO- " " -1B1	Val. Nº 523M-4602 Details

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

DRAWN BY	L.V.H.	DATE	1-3-79
CHECKED BY	C.L.E.	DATE	1-3-79
CORRECT BY	C.L.N.	DATE	8-17-79
APPROVED BY	C.L.E.	DATE	12-7-79
C.O.		SCALE	SHOWN
ISSUE	ORIGINAL	9-79	

SHIP SHOAL-EUGENE ISLAND BLK. 343B LN.

LINE Nº [illegible]

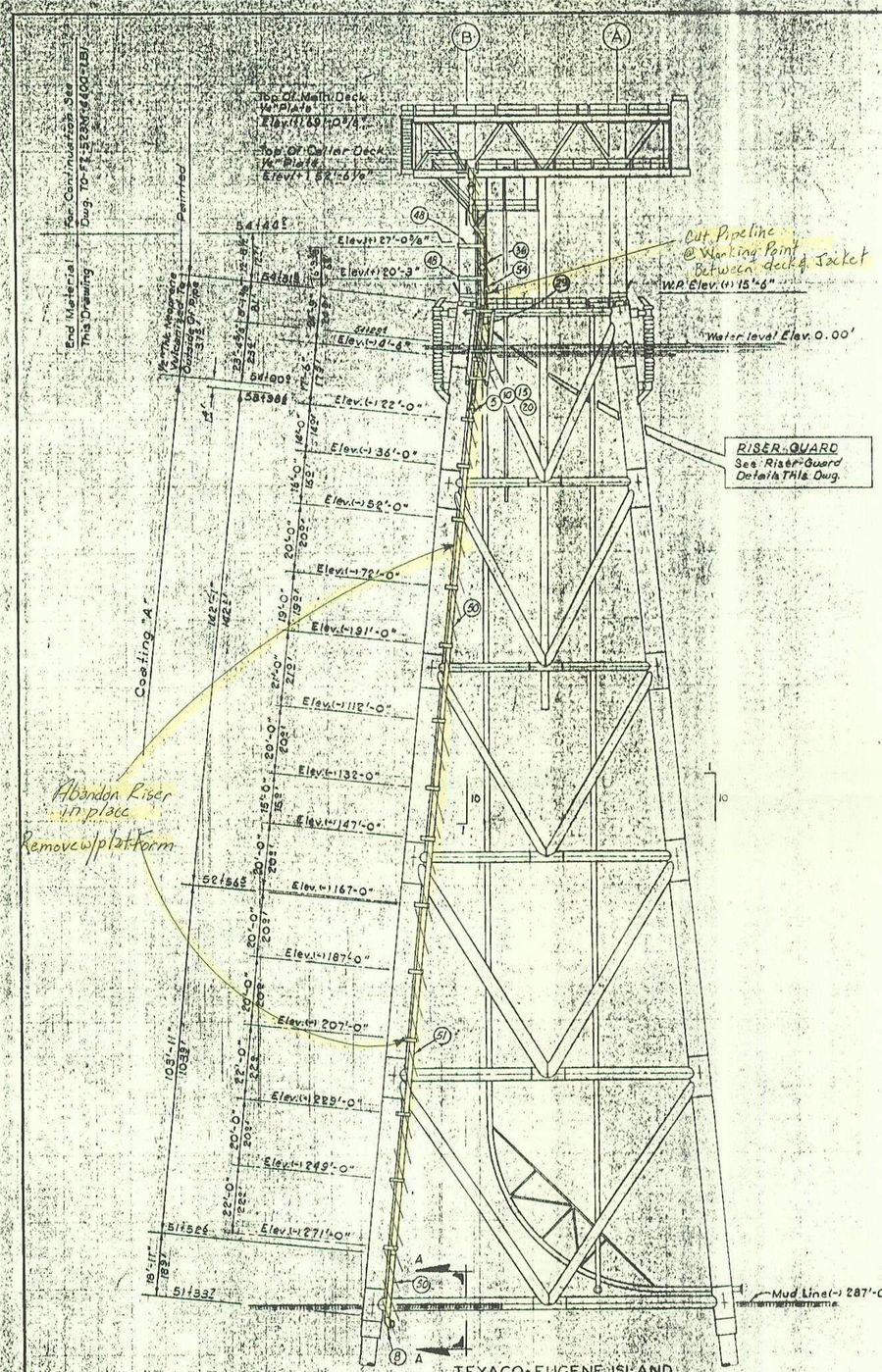
EUGENE ISLAND AREA, GULF OF MEXICO

APPROVED BY

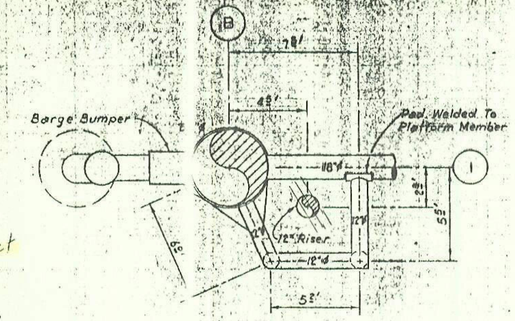
ASST. CHIEF ENGINEER

TENNESSEE GAS PIPELINE CO.

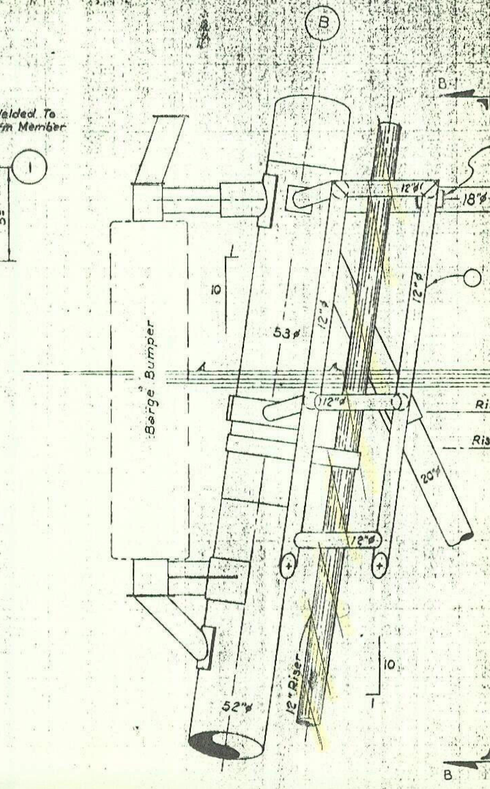
TO-F2-523M-4600-1



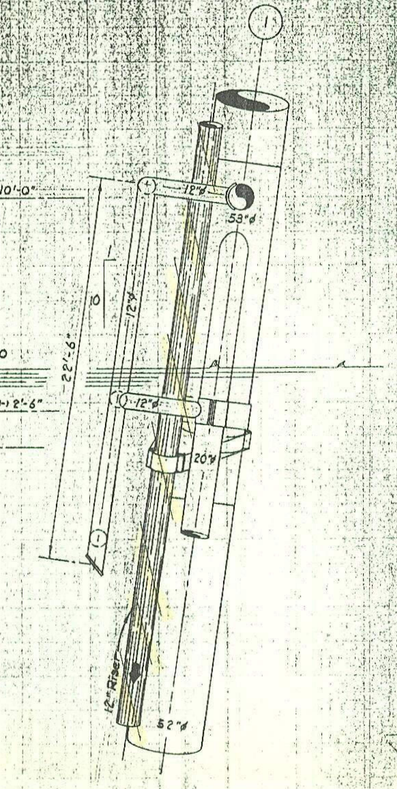
TEXACO-EUGENE ISLAND
BLK 343B PLATFORM
ROW 1
NORTH ELEVATION
Scale: 1"=20'



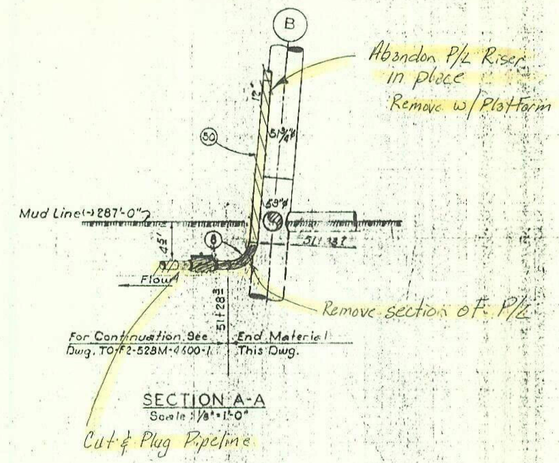
PLAN
Scale: 1/4"=1'-0"



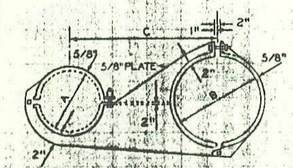
ELEVATION - ROW B
Scale: 1/4"=1'-0"



SECTION B-B
Scale: 1/4"=1'-0"



SECTION A-A
Scale: 1/8"=1'-0"



ABOVE WATER PIPE CLAMP SCHEDULE			
ITEM NO.	DIMENSION A	B	C
	12"ø	4'-0 1/2"	5'-0 3/8"

BEST AVAILABLE COPY

THIS DWG. CURRENT THRU 8-78

REFERENCE DRAWINGS			
DRAWING NO.	TITLE	DRAWING NO.	TITLE
TO-F2-523M-4600-1	Alignment		
TO-F2-523M-4600-181	Valve No 523M-4606 Details		
TO-F2-523M-4600-182	Material For 343B Platform		

REVISIONS					
NO.	DATE	REMARKS	REV.	CKD.	APP.

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

DRAWN BY		DATE	3-79
CHECKED BY		DATE	8-16-79
CORRECT. BY		DATE	8-17-79
APPROVED BY		DATE	8-17-79
		SCALE	Shown
ISSUE DATES	ORIGINAL	9-79	
	LAST	9-79	

PIPING DETAIL
E. I. BLK 343B PLATFORM
EUGENE ISLAND AREA, GULF OF MEXICO
VALVE SECTION

Abandonment
APPROVED BY A.P. Hollenseth 8-20-79
ASST. CHIEF ENGINEER
TENNESSEE GAS PIPELINE CO.
TO-F2-523M-4600-1B

In Reply Refer To: MS 5232

SEP 21 1992

Tennessee Gas Pipeline Company
Attention: Mr. O. O. Jones
1115 Regal Row
Houma, Louisiana 70360

Gentlemen:

On November 19, 1991, representatives from Tennessee Gas Pipeline Company (TGP), Department of Transportation's Office of Pipeline Safety, and Minerals Management Service (MMS) met at the Gulf of Mexico Regional Office of the MMS to discuss the maximum allowable operating pressure (MAOP) of TGP's operated BLUE WATER PIPELINE SYSTEM.

As a result of this meeting and after additional follow-up meetings, telecommunications, and review of the applicable regulations, the MMS has determined that the MAOP of the BLUE WATER PIPELINE SYSTEM will be as follows:

1. The main trunkline and all pipelines feeding into it between the Ship Shoal Block 198 "CGP" structure and the Cocodrie, Louisiana plant will be assigned an MAOP of 1,200 psig.

2. The main trunkline and all pipelines feeding into it between the Vermilion Block 245 "CGP" structure and the Ship Shoal Block 198 "CGP" structure will be assigned an MAOP of 1,250 psig.

3. The main trunkline and all pipelines feeding into it between the Eugene Island Block 349 flanged end and the Ship Shoal Block 198 "CGP" structure will be assigned an MAOP of 1,250 psig.

The following is a list of your pipelines affected by the determination of a newly assigned MAOP:

Right-of-Way No.	Segment No.	MAOP	Right-of-Way No.	Segment No.	MAOP
N/A	6106	1,250	OCS-G 1950-J	3786	1,250
OCS-G 1702	1255	1,200	OCS-G 1950-L	3791	1,250
OCS-G 1702	1257	1,200	OCS-G 3348	4080	1,250
OCS-G 1702	3562	1,200	OCS-G 3360	4082	1,200
OCS-G 1702	6788	1,200	OCS-G 3360	4123	1,200
OCS-G 1702-B	1256	1,200	OCS-G 3455	4763	1,200
OCS-G 1702-B	1264	1,200	OCS-G 3614	4753	1,250
OCS-G 1702-B	1266	1,200	OCS-G 3638	4833	1,200
OCS-G 1702-B	1267	1,200	OCS-G 3644	4858	1,200
OCS-G 1702-C	1251	1,250	OCS-G 3648	4875	1,250
OCS-G 1702-C	1272	1,250	OCS-G 3652	4977	1,250
OCS-G 1702-C	1288	1,250	OCS-G 3848	5157	1,250
OCS-G 1702-C	1289	1,250	OCS-G 4160	5550	1,250
OCS-G 1702-C	1305	1,250	OCS-G 4173	5634	1,250
OCS-G 1702-D	1249	1,250	OCS-G 4309	5941	1,250
OCS-G 1702-D	1285	1,250	OCS-G 4341	5816	1,250
OCS-G 1702-E	1250	1,250	OCS-G 4526	5957	1,200

G 3648

OCS-G 1702-F	1253	1,200	OCS-G 4603	5965	1,200
OCS-G 1702-H	1287	1,250	OCS-G 4605	5966	1,200
OCS-G 1702-I	4130	1,250	OCS-G 4613	6001	1,250
OCS-G 1702-K	1367	1,250	OCS-G 4686	6166	1,200
OCS-G 1702-L	1368	1,200	OCS-G 5137	6482	1,250
OCS-G 1702-M	1395	1,250	OCS-G 5141	6492	1,250
OCS-G 1702-M	4388	1,250	OCS-G 5152	6551	1,200
OCS-G 1702-O	1369	1,250	OCS-G 7576	7486	1,200
OCS-G 1702-P	1370	1,250	OCS-G 8056	7653	1,200
OCS-G 1702-Q	1371	1,250	OCS-G 8057	7654	1,200
OCS-G 1702-R	1372	1,200	OCS-G 10396	8534	1,250
OCS-G 1702-S	1373	1,250	OCS-G 13216	9409	1,200
OCS-G 1702-T	1396	1,250			

Should you have any questions regarding this matter, please contact Mr. Autry Britton at (504) 736-2548.

Sincerely,

(Orig. Sgd.) William H. Martin

D. J. Bourgeois
Regional Supervisor
Field Operations

cc: Department of Transportation
2320 La Branch, Room 2116
Houston, Texas 77004

bcc: 1502-01 P/L OCS-G 1702, 1702-B, 1702-C, 1702-D, 1702-E, 1702-F, 1702-H, 1702-I, 1702-K, 1702-L, 1702-M, 1702-O, 1702-P, 1702-Q, 1702-R, 1702-S, 1702-T, 1950-J, 1950-L, 3348, 3360, 3455, 3614, 3638, 3644, 3648, 3652, 3848, 4160, 4173, 4309, 4341, 4526, 4603, 4605, 4613, 4686, 5137, 5141, 5152, 7576, 8056, 8057, 10396, 13216 (KFaust) (MS 5232)
1502-01 P/L OCS-G 1702, 1702-B, 1702-C, 1702-D, 1702-E, 1702-F, 1702-H, 1702-I, 1702-K, 1702-L, 1702-M, 1702-O, 1702-P, 1702-Q, 1702-R, 1702-S, 1702-T, 1950-J, 1950-L, 3348, 3360, 3455, 3614, 3638, 3644, 3648, 3652, 3848, 4160, 4173, 4309, 4341, 4526, 4603, 4605, 4613, 4686, 5137, 5141, 5152, 7576, 8056, 8057, 10396, 13216 (MS 5033)
1502-01 Segment No. 6106 (KFaust) (MS 5232)
1502-01 Segment No. 6106 (MS 5033)
MS 5260

ABritton:km:9/17/92

SN 4875

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

B 3648

ACTION

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 Tennesseee 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;

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:

OCS-G NO.	OCS-G NO.	OCS-G NO.	OCS-G NO.	OCS-G NO.
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

OCS-G NO.	OCS-G NO.	OCS-G NO.	OCS-G NO.	OCS-G NO.
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)

SN 4875

United States Department of the Interior

IN REPLY REFER TO
2883 (210)

BUREAU OF LAND MANAGEMENT

NEW ORLEANS OUTER CONTINENTAL SHELF OFFICE
HALE BOGGS FEDERAL BUILDING
500 CAMP STREET—SUITE 841
NEW ORLEANS, LA 70130

OCS-G 3648

Eugene Island Area,
South Addition

March 1, 1979

DECISION

Tenneco Inc.	:	Right of Way for Pipe Line
	:	Date of Permit: 2/24/78
	:	Decision Requesting Proof of Construction Dated:
	:	Proof of Construction Received: 2/28/79

Proof of Construction Accepted

The above-captioned permittee has submitted the evidence required by the law and regulations 43 CFR 2883.2-3(a). The proof of construction is hereby accepted and approved, with minor deviation.

John L. Rankin
Manager

cc: U. S. Geological Survey
(w/dwg. and reports)

NOTED—MC INTOSH

NOTED—SCHONEKAS

NOTED – PATZ

Tennessee Gas Pipeline
Division of Tenneco Inc

P.O. Drawer 53388
Lafayette, Louisiana 70501
(318) 233-7802

W.O.
NJB

January 22, 1979

RECEIVED
JAN 23 4 03 PM '79

Mr. John L. Rankin, Manager
Bureau of Land Management
500 Camp Street, Suite 841
Hale Boggs Federal Building
New Orleans, Louisiana 70130

Re: Proof Of Construction
Pipeline Right of Way
3341 (400) OCS-G 3648
Eugene Island Area
Eugene Island Blk. 343B Line

Dear Mr. Rankin:

On February 24, 1978, application for pipeline right of way was approved and permit issued for the construction of a sixteen inch (16") natural gas pipeline in the Eugene Island Area, Gulf of Mexico, Louisiana.

In accordance with regulations 43 CFR 2883.2-3 (a), we attach herewith, in duplicate, the As-Constructed Drawing TO-F2-523M-4600-1 showing the deviation from the right of way as originally planned and submitted, along with duplicate copies of the hydrostatic test data. Also, we wish to point out we laid a twelve inch (12") line instead of a sixteen as originally submitted.

If there is any additional information needed pertaining to this matter, please advise.

Yours very truly,

R. S. Perot
Right of Way Agent

RSP/jsb

cc; R. L. Sanderson
L. J. Broussard
J. B. Inglis
H. E. Fisher
R. G. Robertson
J. D. DeBlieux
F. J. Millette, Jr.
File

TGT ACT 3/71

NOTE: SEE PROCEDURE TGT 6-129 FOR INSTRUCTIONS

Tennessee Gas Pipeline (COMPANY)

SHEET 1 OF 1

PIPE TEST REPORT

C.O. NO.	DISTRICT	LINE NO.	SPREAD	SECTION	DATE
46274	524	523M-4600-1			5-26-78

DRAWING NO.	LOCATION	SECTION TESTED	FOOTAGE
TE-F2-523M-4600-1E	FROM MLV TO MLV	FROM STA. 51+00 TO STA. 54+50	350'

NOMINAL PIPE:	SIZE O.D.	W.T.	GRADE	MFR.
	12.750 IN.	.562 .500 IN	X-52 X-42	U.S. Stl.

100% S.M.Y.S. PRESSURE	M.A.O.P.	PIPELINE CONTRACTOR
3294 PSIG	PSIG	J. Ray McDermott & Co., Inc.

HYDROSTATIC TEST CONTRACTOR	PROJECT MANAGER
J. Ray McDermott & Co., Inc.	Gary Harrison

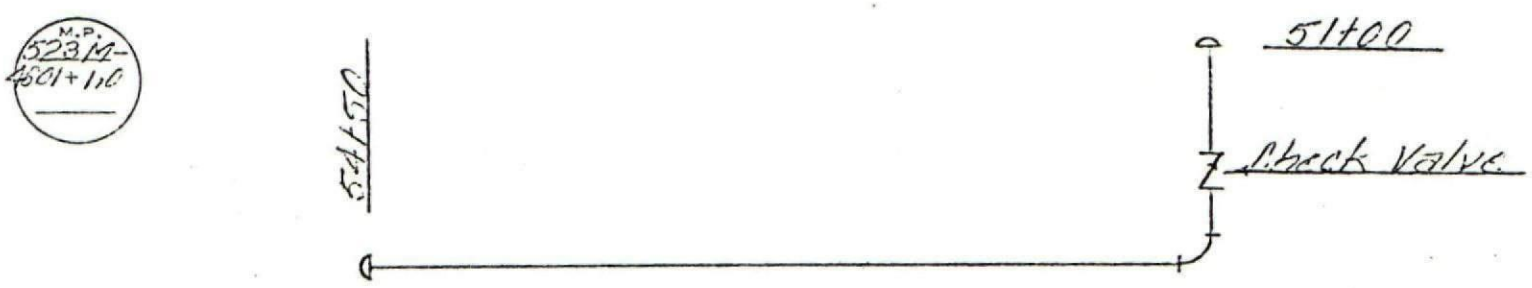
COMPANY PERSONNEL INVOLVED: E.L. Carson

TEST MEDIUM (WATER, GAS, AIR, OTHER): Water

	END OF TEST SECTION	PRESSURE POINT	HIGH ELEVATION	LOW ELEVATION	END OF TEST SECTION
MAP PLUS	54+50	54+50	N/A	N/A	51+00
ELEVATION (FEET)	N/A	N/A	N/A	N/A	N/A
TEST PRESSURE (PSI)	2160	2160	2160	2160	2160
% S.M.Y.S	65.6%	65.6%	65.6%	65.6%	65.5%

TEST SKETCH (ATTACH ADDITIONAL SKETCH SHEET IF NECESSARY) ——▶ FLOW

TEST SECTION NO. 2



USEFUL CONVERSION FACTORS:	WATER SOURCE	MILE POST	WATER SOURCE TEMPERATURE
• 1 FOOT OF WATER = .433 PSI • 1 PSI = 2.31 FEET OF WATER	City	N/A	76°

DEVIATION DATA (OBSERVED AT PRESSURE PT)		PRESSURE		
	INITIAL DEVIATION:	PSIG	% S.M.Y.S.	
	FINAL DEVIATION:	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)			

X ALL TIE-IN WELDS WERE NONDESTRUCTIVELY TESTED

METHOD: X-Ray

BY: Mike Felkins w/ Mobile Lab.

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: [signature]	5-26-78
	DISTRICT SIGNATURE: [signature]	10/5/78
SIGNATURE:	DIVISION SIGNATURE: Reno H. Robertson	10-13-78
DATE:	AGENCY SIGNATURE:	

BEST AVAILABLE COPY

TGT 4207 3/71

T OF TEST PRESSURES

DATE	TIME	DEAD WEIGHT	TEMPERATURE		REMARKS: (TEST, WEATHER, BLEED OFF, OFF TEST, NO. OF STROKES FOR REPRESSURE, ETC.)
			TEST WATER	AMBIENT	
5-26-78	1325	2165	82°	90°	On Test ~ Cloudy & Hot
"	1330	2170	82°	90°	
"	1340	2175	82°	90°	Bled down to 2160
"	1355	2175	82°	90°	" "
"	1405	2175	84°	92°	" "
"	1415	2175	85°	92°	" "
"	1435	2175	85°	90°	" "
"	1450	2175	85°	92°	" "
"	1505	2175	87°	92°	" "
"	1525	2175	87°	92°	" "
"	1555	2175	87°	90°	" "
"	1615	2175	88°	92°	" "
"	1635	2175	88°	92°	" "
"	1650	2175	89°	92°	" "
"	1710	2175	89°	92°	" 2170
"	1725	2170	89°	92°	End Test

COMMENTS:

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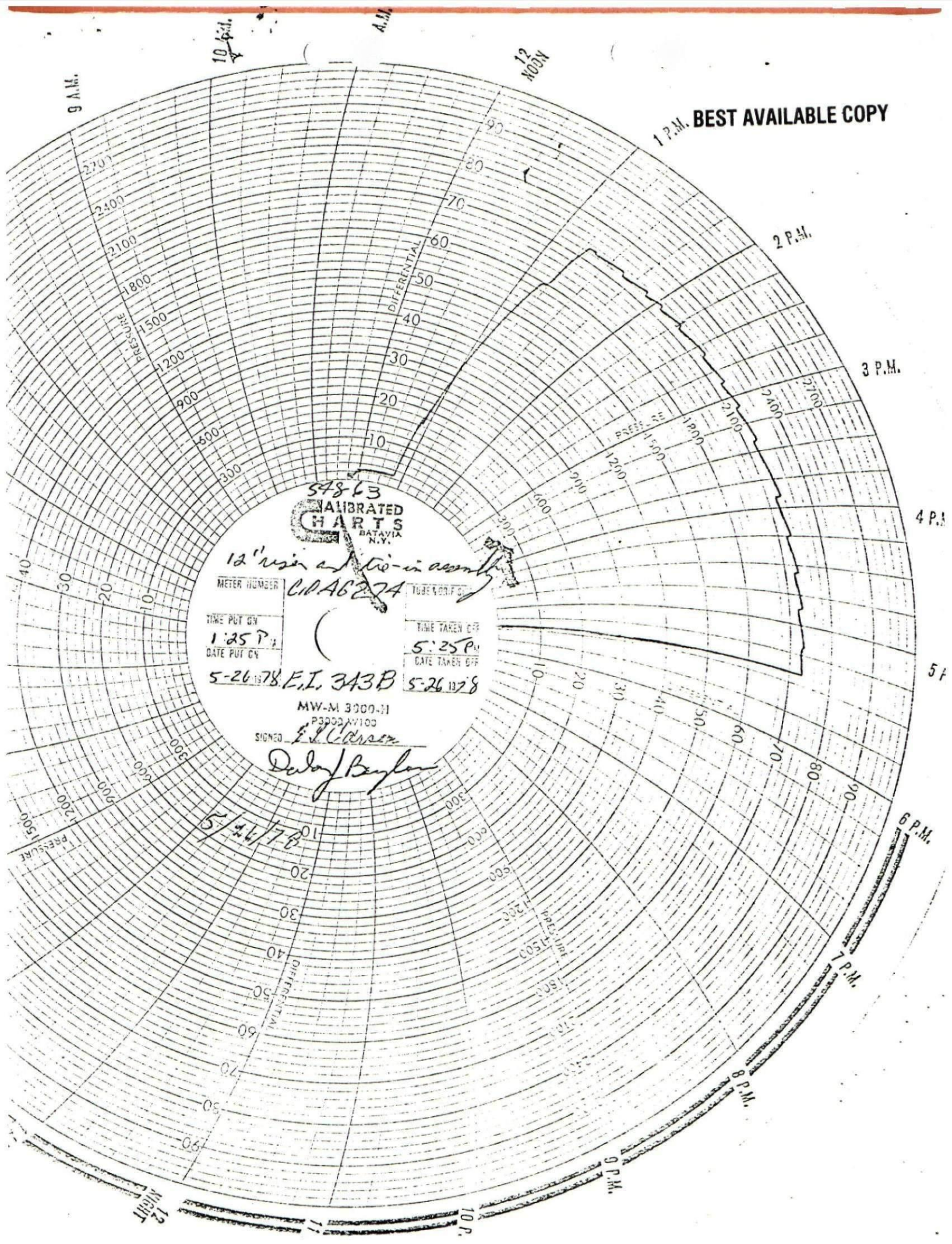

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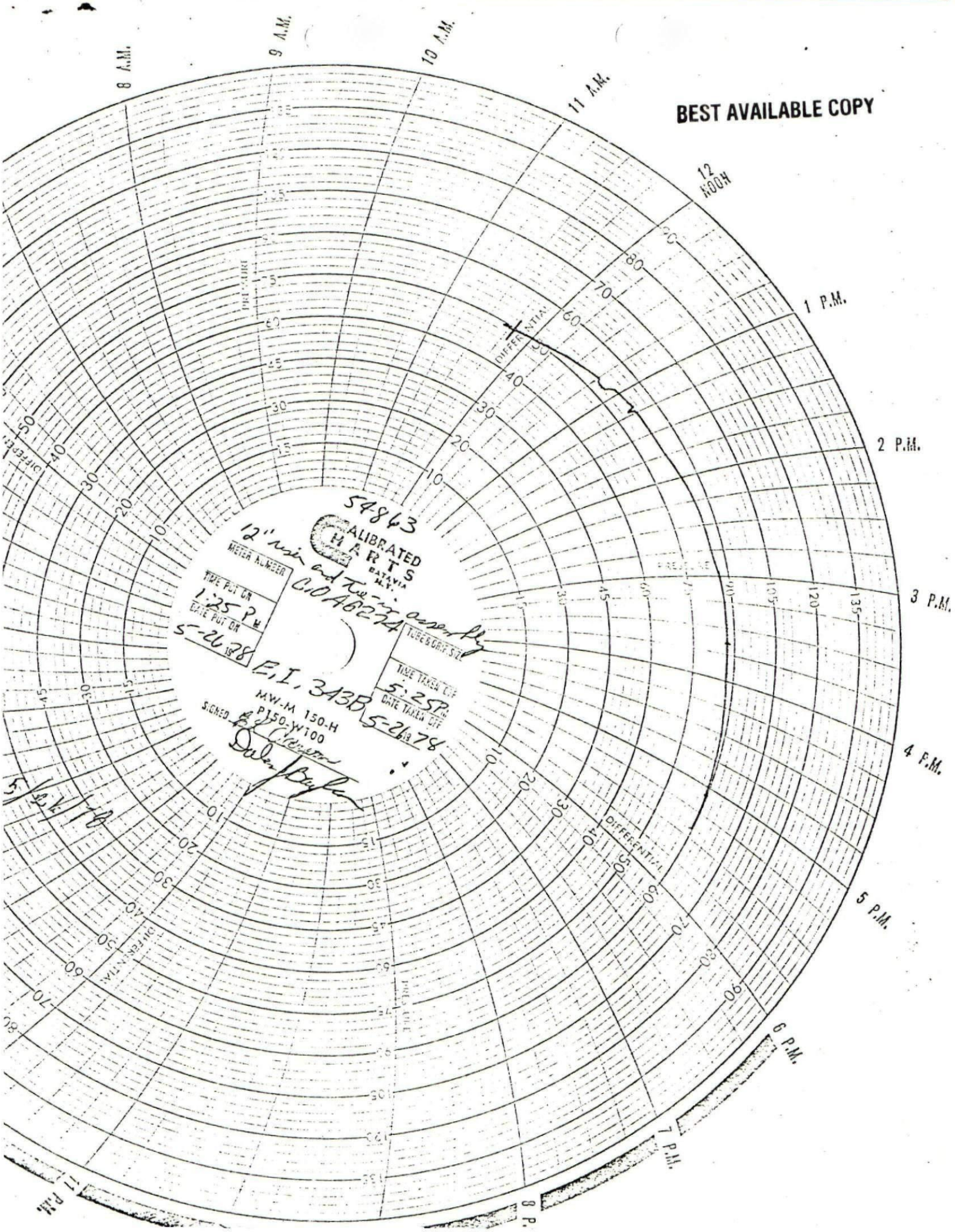


4327 3/71

SEE PROCEDURE TGT 6-129 FOR INSTRUCTIONS

TENN GAS PIPELINE CO. (COMPANY)

10-25-78 DP

SHEET 1 OF 1

PIPE TEST REPORT

NO.	DISTRICT	LINE NO.	SPREAD	SECTION	DATE
46274	524	523M-4600-1			6-15-78

WING NO.	LOCATION		SECTION TESTED		FOOTAGE
F2-523M-4600-1	FROM MLV 4601	TO MLV 4602	FROM STA. 0+00	TO STA. 54+58	5458

MINAL PIPE:	SIZE O.D.	W.T.	GRADE	MFR.
	12.750 IN.	.500 IN.	X42	U.S.S.

0% S.M.Y.S. PRESSURE	M.A.O.P.	PIPELINE CONTRACTOR
3294 PSIG	PSIG	J. RAY McDERMOTT, LAY BARGE 29

YDROSTATIC TEST CONTRACTOR	PROJECT MANAGER
C.S.I. HYDROSTATIC TESTERS	Gary Harrison

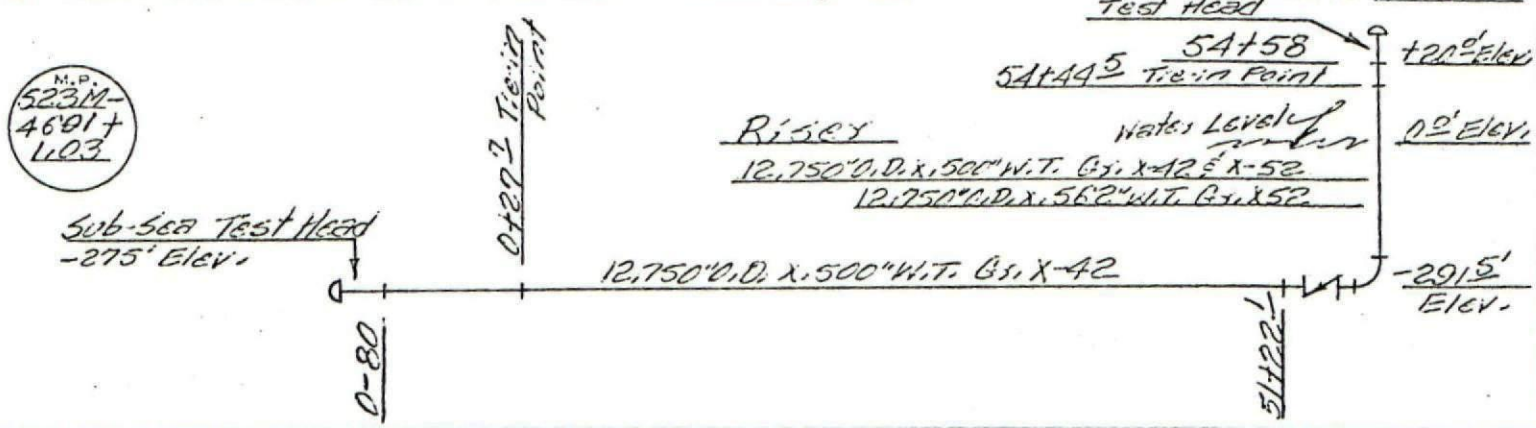
OMPANY PERSONNEL INVOLVED: JEFF ROLLINGS.

EST MEDIUM (WATER, GAS, AIR, OTHER): WATER

	END OF TEST SECTION	PRESSURE POINT	HIGH ELEVATION	LOW ELEVATION	END OF TEST SECTION
MAP PLUS	0-80	54+58	54+58	54+38	54+58
ELEVATION (FEET)	0	+20	+20	0	+20
TEST PRESSURE (PSI)	2169	2160	2160	2169	2160
% S.M.Y.S	65.8%	65.5%	65.5%	65.8%	65.5%

TEST SKETCH (ATTACH ADDITIONAL SKETCH SHEET IF NECESSARY) → FLOW

TEST SECTION NO. 3



USEFUL CONVERSION FACTORS:	WATER SOURCE	MILE POST	WATER SOURCE TEMPERATURE
• 1 FOOT OF WATER = .433 PSI • 1 PSI = 2.31 FEET OF WATER	GULF OF MEXICO	523M-4601 - 1.03	85°

DEVIATION DATA (OBSERVED AT PRESSURE PT)		PRESSURE		
	INITIAL DEVIATION:	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)			

☑ ALL TIE-IN WELDS WERE NONDESTRUCTIVELY TESTED
METHOD: X-RAY

BY W/ Mobile-Lab MIKE FELKINS.

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:	6-16-78
	DISTRICT SIGNATURE:	10/5/78
SIGNATURE:	DIVISION SIGNATURE: Ronald H. Robertson	10-13-78
DATE:	AGENCY SIGNATURE:	

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T 4207 3/71

T/ OF TEST PRESSURES

DATE	TIME	DEAD WEIGHT	TEMPERATURE		REMARKS: (EST. WEATHER, BLEED OFF, OFF TEST, NO. OF STROKES FOR REPRESSURE, ETC.)
			TEST WATER	AMBIENT	
6-15-78	2:00 A.M.	0	85°	89°	Started Pressuring - Clear & Hot
"	2:15 A.M.	2175	85°	89°	
"	2:25 A.M.	2160	85°	89°	Repressure to 2175
"	2:35 A.M.	2160	85°	89°	" " Small leak in Sub-Sea Test Head
"	2:45 A.M.	2160	85°	89°	" " -On Test
"	2:55 A.M.	2160	85°	89°	" "
"	3:04 A.M.	2160	85°	89°	" "
"	3:15 A.M.	2160	85°	89°	" "
"	3:25 A.M.	2160	85°	89°	" "
"	3:35 A.M.	2160	85°	89°	" "
"	3:47 A.M.	2160	84°	89°	" "
"	4:00 A.M.	2160	84°	89°	" "
"	4:18 A.M.	2160	84°	89°	" to 2173
"	4:33 A.M.	2160	84°	89°	" to 2175
"	4:53 A.M.	2160	84°	89°	" "
"	5:00 A.M.	2170	84°	89°	
"	5:17 A.M.	2160	84°	89°	" "
"	5:42 A.M.	2160	84°	89°	" "
"	6:12 A.M.	2160	84°	89°	" "
"	6:41 A.M.	2160	84°	89°	" "
"	7:18 A.M.	2160	84°	90°	" "
"	8:07 A.M.	2160	84°	90°	" "
"	9:00 A.M.	2160	84°	91°	" "
"	10:00 A.M.	2163	85°	91°	
"	10:25 A.M.	2160	85°	92°	" "
"	10:45 A.M.	2172	85°	92°	Off Test

COMMENTS:

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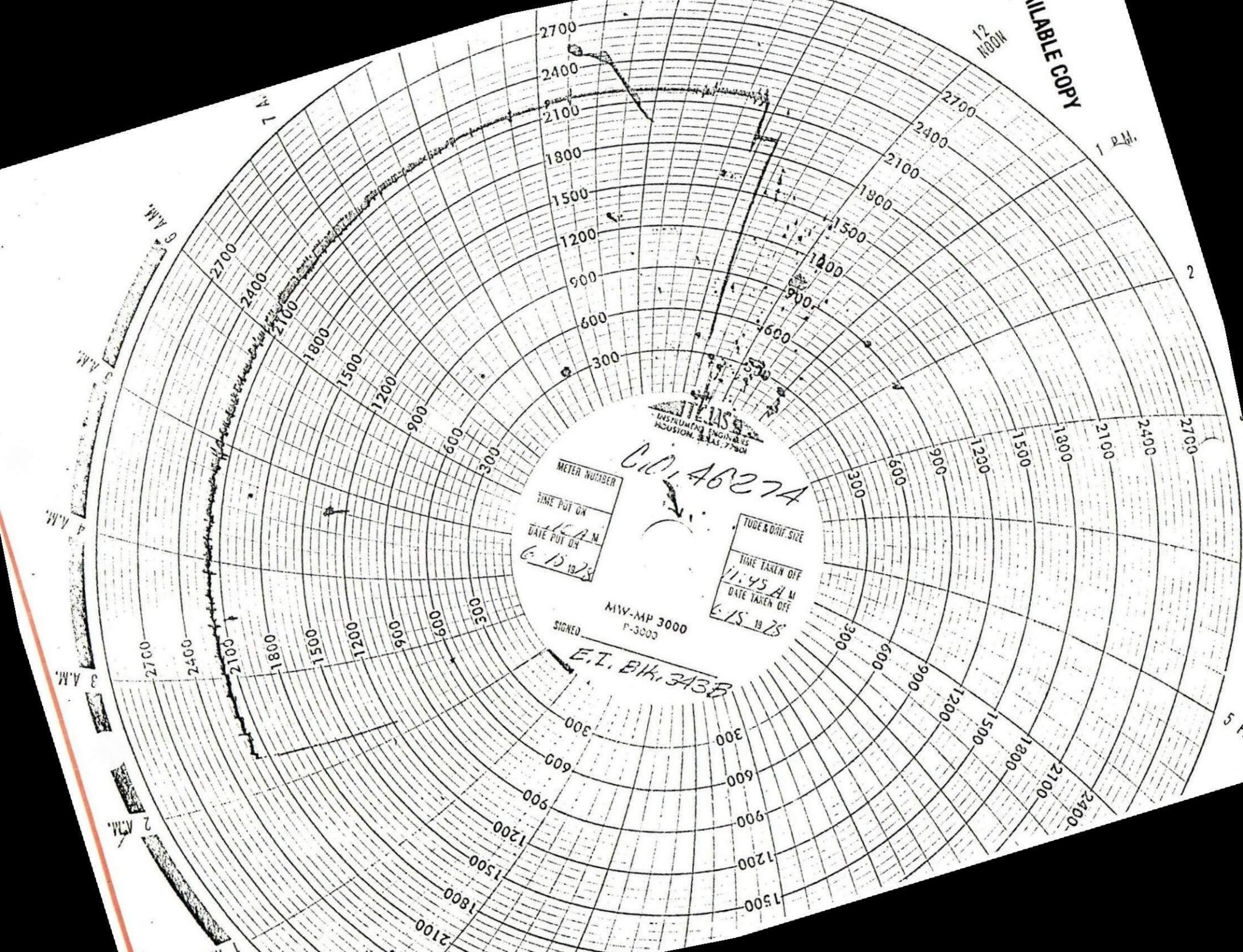

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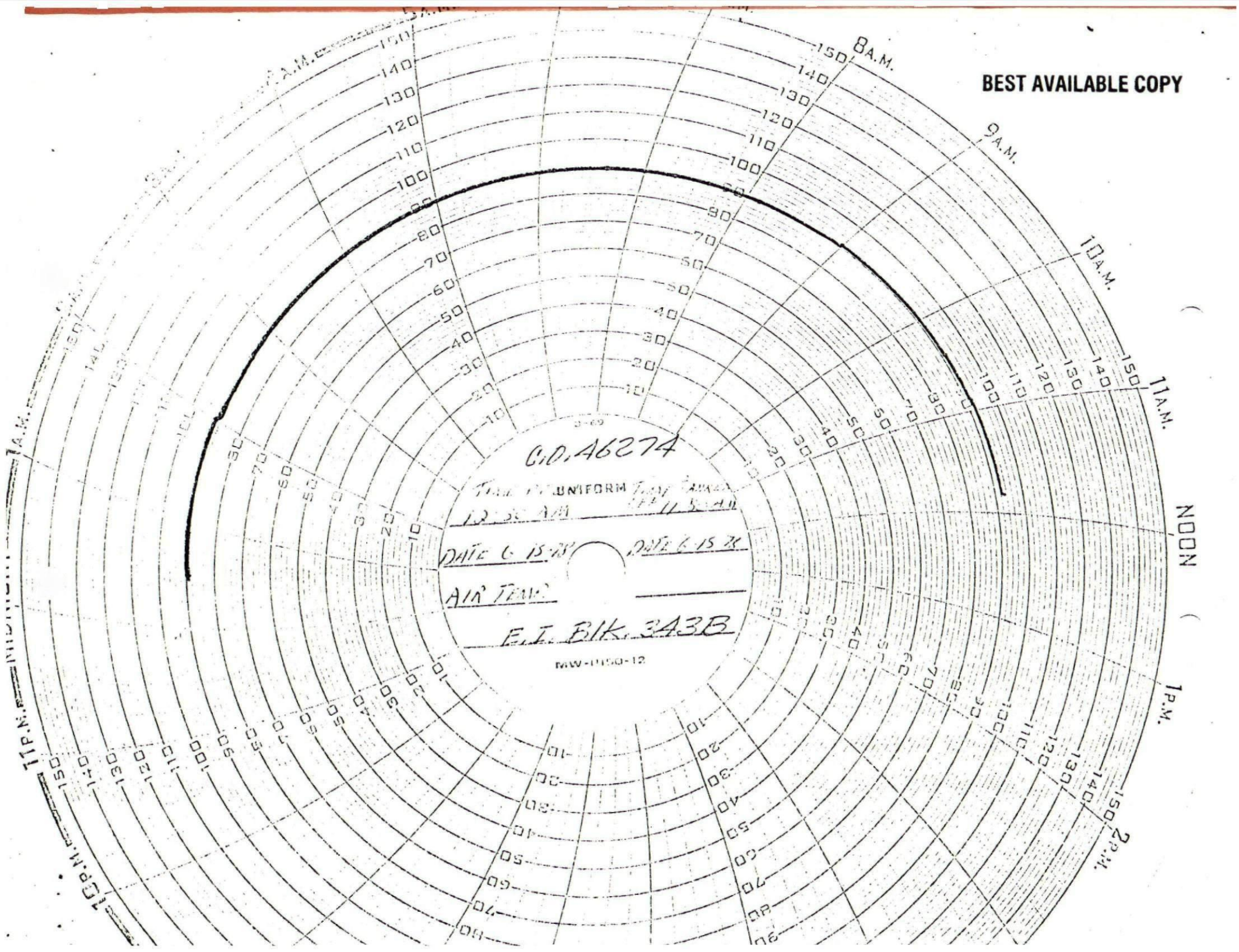

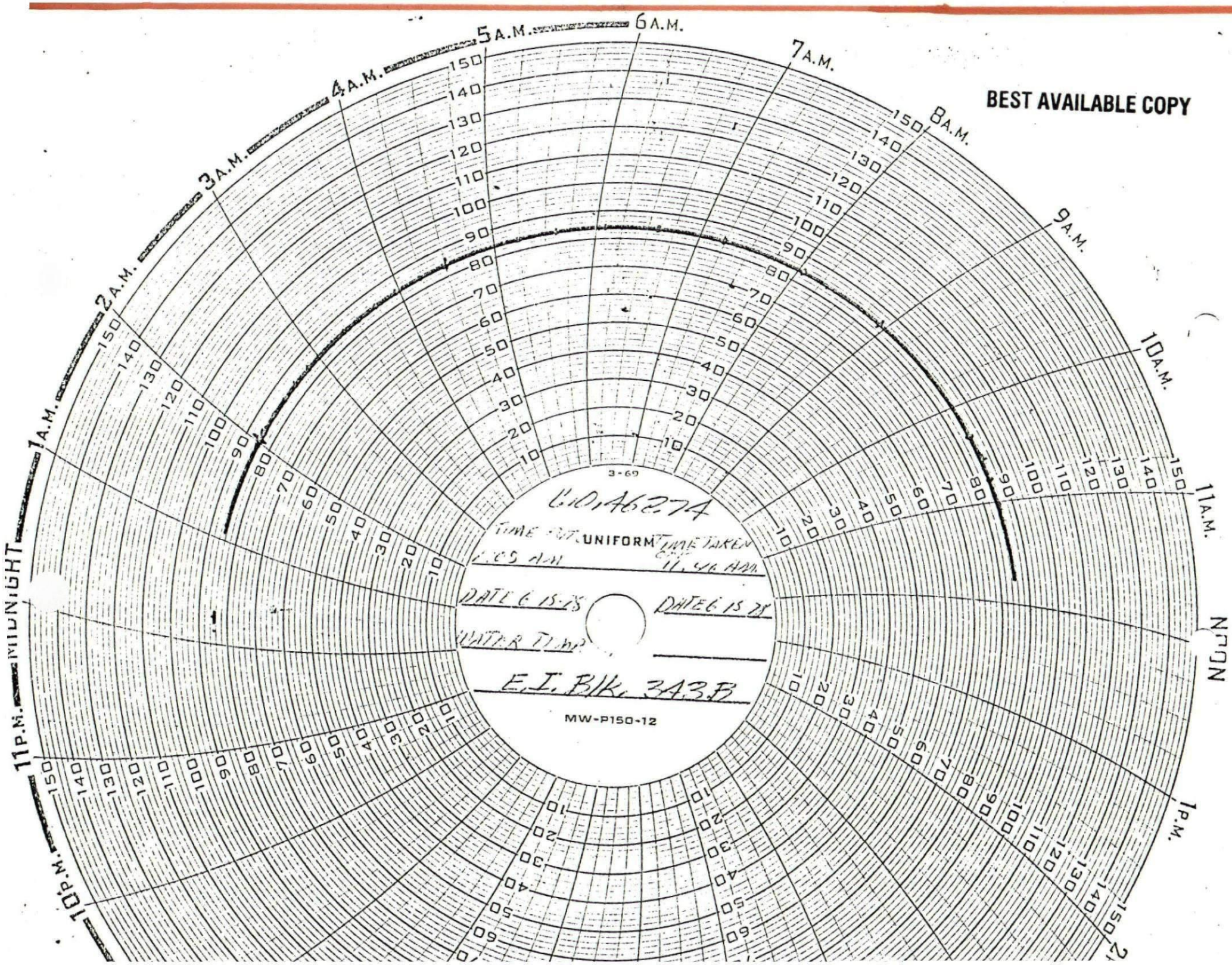
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MIDNIGHT
1 A.M.
2 A.M.
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NOON
1 P.M.
10 P.M.
11 P.M.
3-69
6104274
UNIFORM
TIME SET
6:05 AM
TIME TAKEN
11:46 AM
DATE 6-15-28
DATE 6-15-28
WATER TEMP
E.I. BLK. 343B
MW-P150-12

TGT 4207 3/71

(Tennessee Gas Pipeline (COMPANY))

SHEET 1 OF 1

NOTE: SEE PROCEDURE TGT 6-129 FOR INSTRUCTIONS

PIPE TEST REPORT

C.O. NO.	DISTRICT	LINE NO.	SPREAD	SECTION	DATE
46274	524	523M-4600	YARD MARTECH	PLATFORM + METER PIPING	1-22-78

DRAWING NO.	LOCATION	SECTION TESTED	FOOTAGE
TE-FP-523M-4600-1F TE-MP523M-4602-1	FROM ~~MLV~~ 523M-4602 TO ~~MLV~~	FROM STA. TO STA.	

NOMINAL PIPE:	SIZE O.D.	W.T.	GRADE	MFR.
	16" IN.	.500 IN.	X52	U.S.S.

100% S.M.Y.S. PRESSURE	M.A.O.P.	PIPELINE CONTRACTOR
3250 PSIG	PSIG	MARTECH

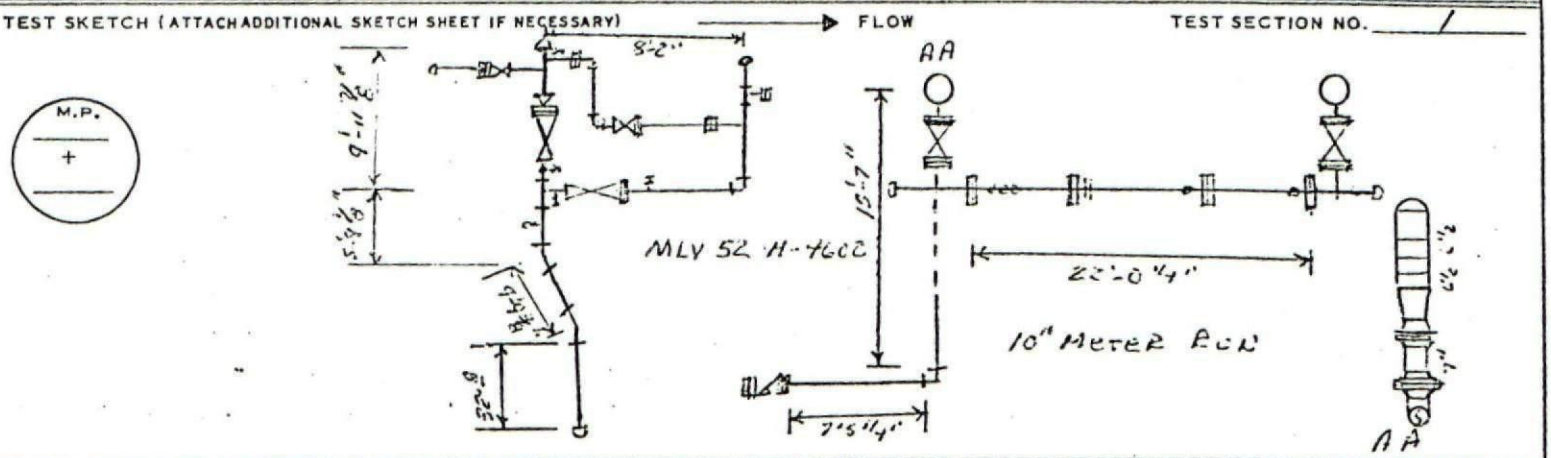
HYDROSTATIC TEST CONTRACTOR	PROJECT MANAGER
C.S.I.	R. MIKE

COMPANY PERSONNEL INVOLVED: A.J. ASHLEY

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)	2160	2160	2160	2160	2160
% S.M.Y.S	66%	66%	66%	66%	66%

TEST SKETCH (ATTACH ADDITIONAL SKETCH SHEET IF NECESSARY) → FLOW — TEST SECTION NO. 1



USEFUL CONVERSION FACTORS:	WATER SOURCE	MILE POST	WATER SOURCE TEMPERATURE
• 1 FOOT OF WATER = .433 PSI • 1 PSI = 2.31 FEET OF WATER	TAP	523M-4601-0.97	51°

DEVIATION DATA (OBSERVED AT PRESSURE PT)		PRESSURE		
	INITIAL DEVIATION:	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)		

☑ ALL TIE-IN WELDS WERE NONDESTRUCTIVELY TESTED — BY Mike Feikins MOBILE-LAB

METHOD: GAMMA RAY

ELEVATION DATA DERIVED FROM PROFILE SHEET TE- OR U.S.G.S. QUAD SHEET: R.B. ROBERTS

TEST REJECTED	TEST ACCEPTED	DATE
NOTE: SEE ABOVE FAILURE DATA **BEST AVAILABLE COPY**	TEST INSPECTOR SIGNATURE: A.J. Ashley	1-22-78
	DISTRICT SIGNATURE: [illegible]	10/5/78
SIGNATURE:	DIVISION SIGNATURE: [illegible]	10-13-78
DATE:	AGENCY SIGNATURE:	

TGT 4207 3/71

OF TEST PRESSURES

DATE	TIME	DEAD WEIGHT	TEMPERATURE TEST WATER	TEMPERATURE AMBIENT	REMARKS: (ON TEST, WEATHER, BLEED OFF, OFF TEST, NO. OF STROKES FOR REPRESSURE, ETC.)
1-22-78	[illegible]	[illegible]			Cold & cldy. started pressuring
	[illegible]	[illegible]			shut down to repair leaks
	[illegible]	[illegible]			leaks repaired
	7:20	1070			shut down - leaks
	7:25	1010			repaired
	7:27	1300			shut down - bled
	7:35	[illegible]			started up
	[illegible]	2050			shut down - leaks
	7:45	1080			bled
	7:50	1060			started up
	7:55	2175	51°	[illegible]	at test pressure
	4:00	2171	51°	[illegible]	
	4:05	2162	51°	[illegible]	leaks - bled
	4:10	[illegible]	51°	[illegible]	started up
	4:12	2175	51°	[illegible]	at test pressure
	4:15	2173	51°	[illegible]	
	4:25	2160-2175	51°	[illegible]	repressure
	4:30	2174	51°	[illegible]	
	4:45	2168	51°	[illegible]	
	5:00	2162	51°	44°	
	5:06	2160-2175	51°	44°	Repressure
	5:15	2174	51°	44°	
	5:30	2169	51°	[illegible]	
	5:45	2166	51°	[illegible]	
	6:00	2161	51°	[illegible]	
	6:07	[illegible]-2175	51°	43°	Repressure
	6:15	2171	51°	43°	
	6:30	[illegible]	51°	43°	
	6:45	2163	51°	43°	
	6:50	2160-2175	51°	43°	Repressure
	7:00	[illegible]	51°	43°	
	7:15	2172	51°	43°	
	7:30	2169	51°	43°	
	7:45	2166	51°	43°	
	8:00	2163	51°	43°	
	8:12	2111	51°	43°	OFF TEST BLED DOWN

COMMENTS:

PUMP SR# 355 (McFarland Triplex)

DEAD WEIGHT SR# 10388 (Chandler)

TEMP. RECORD SR# TR.4 (Barton)

PRESS. " SR# PR.11 (Barton)

BEST AVAILABLE COPY

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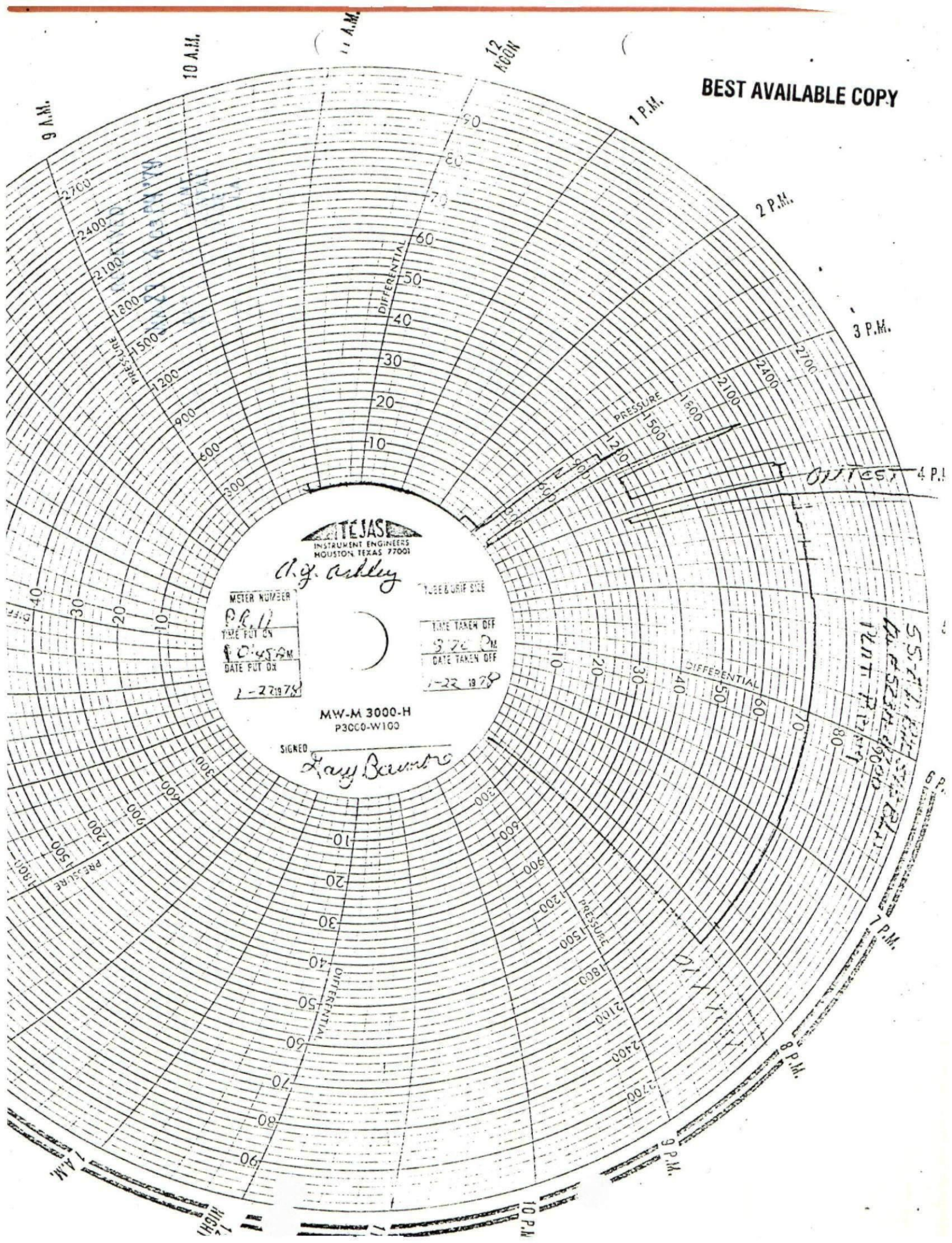

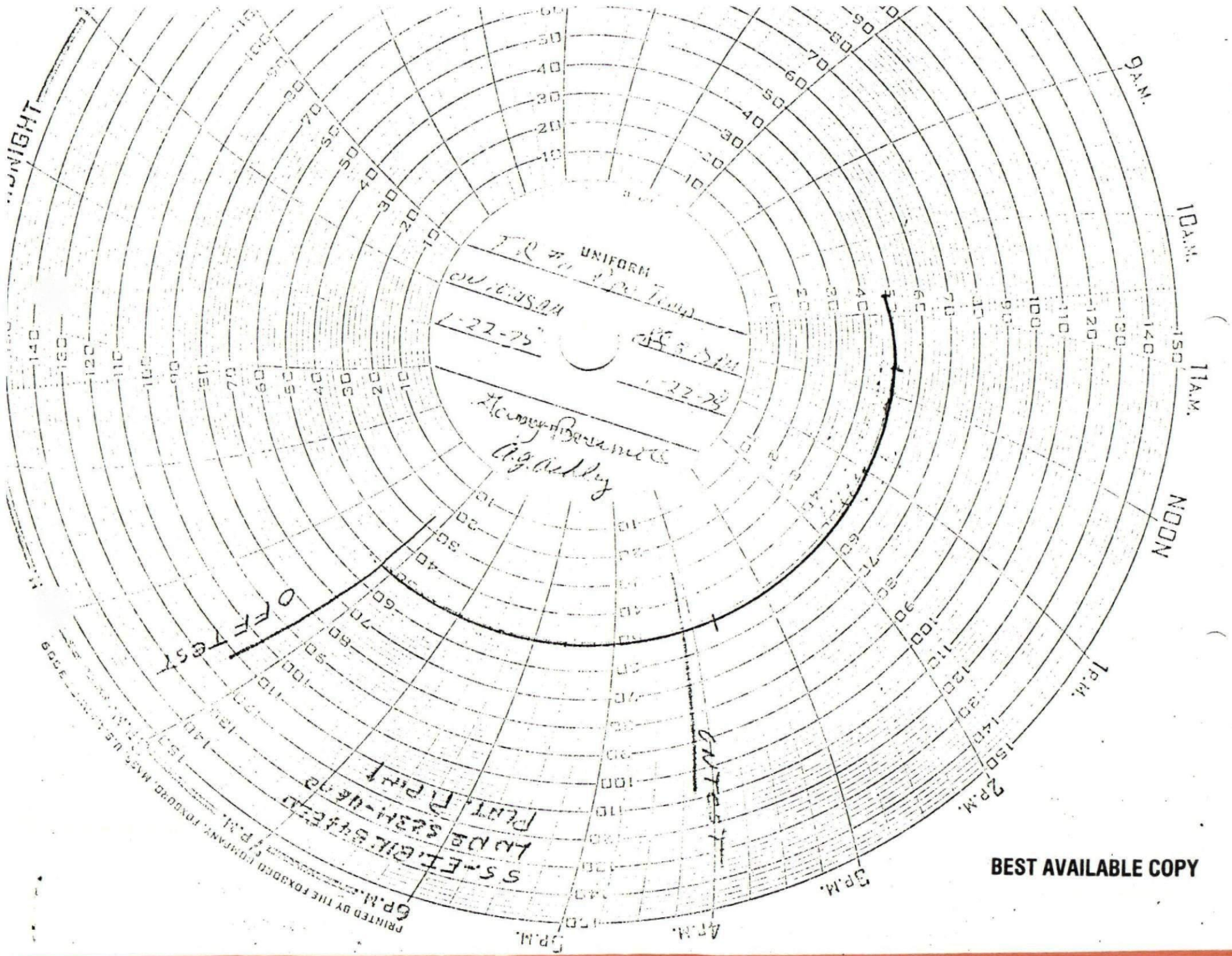

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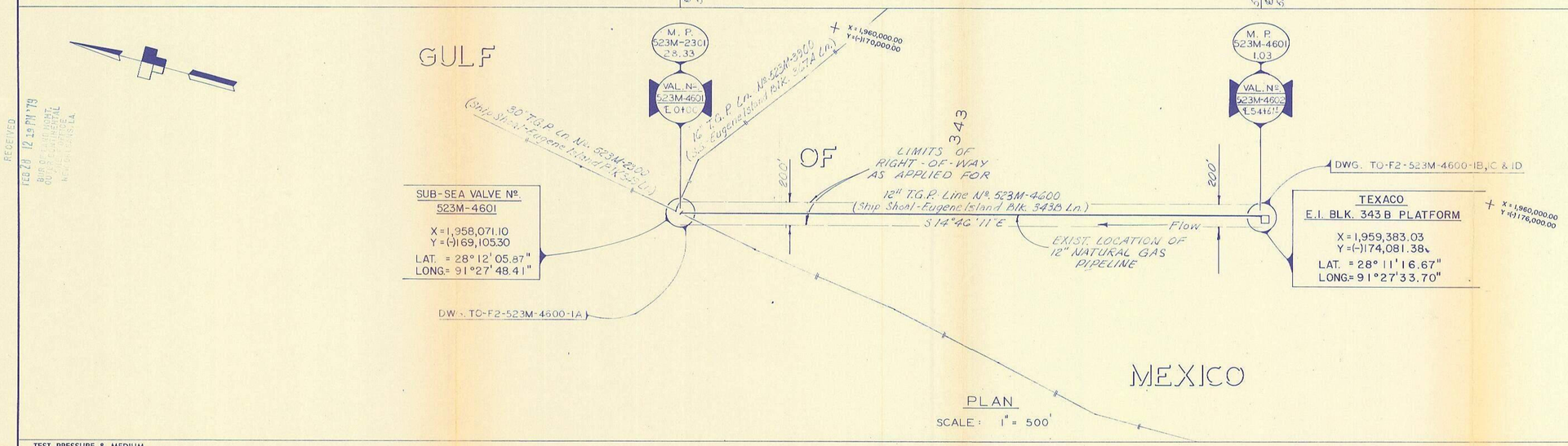
TAX DISTRICT DATA

ZONE

BEST AVAILABLE COPY

OWNERSHIP & LINE LIST NO.

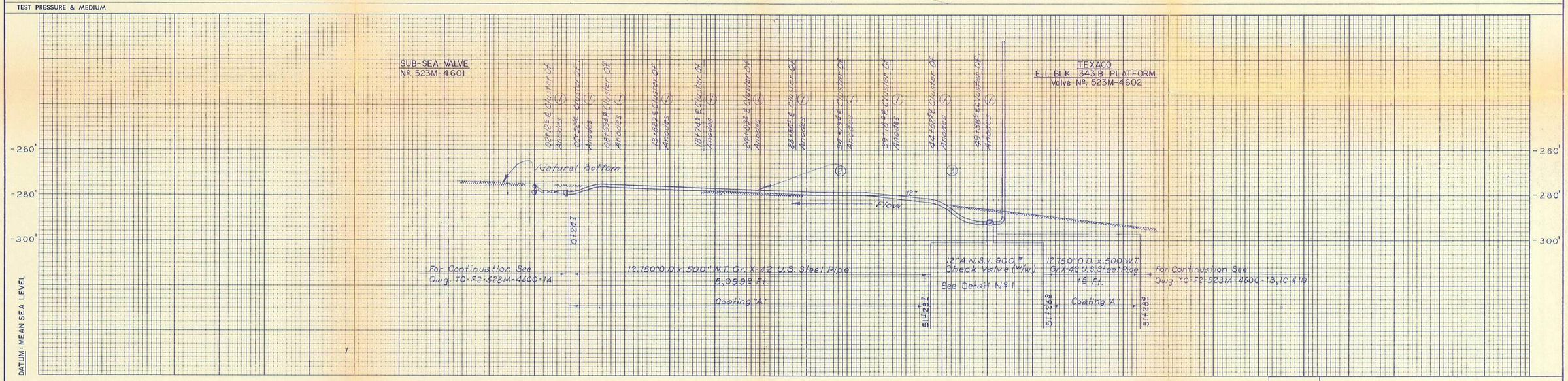
EUGENE ISLAND BLK. 343B



PLAN

SCALE: 1" = 500'

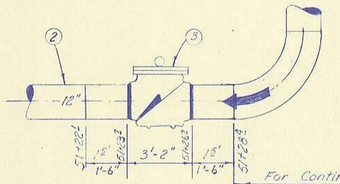
TEST PRESSURE & MEDIUM



PROFILE

SCALE: HORIZ. 1" = 500'
VERT. 1" = 20'

PERMIT DWG Nº
TA-N2-F523M-4600-1, 1A & 1B
TA-L2-F523M-4600-1, 1A & 1B



DETAIL Nº 1

SCALE: NONE

RICHARD E. LYONS REG. No. 11308 REGISTERED PROFESSIONAL ENGINEER IN CIVIL ENGINEERING

LOCATION OF RIGHT-OF-WAY HAS BEEN ACCURATELY DELINEATED UPON THIS MAP

RICHARD E. LYONS

LOUISIANA REGISTERED PROFESSIONAL CIVIL ENGINEER NO. 11308

NOTE: DESIGN COMPLIES WITH D.O.T. REGULATIONS

NEW ORLEANS OCS
FILE CODE
ROUTE INITIAL
MGR.
ASST. MGR.
FEB 28 1979
P. LEGAL
PAO
CAO
OPS
STUDIES
MGMT. SER.

WELDING PROCEDURE	MATERIAL SUMMARY		
	QUANTITY	ITEM NO.	DESCRIPTION
		1	Anodes, 12 In., Bracelet Type; Zinc.
		2	Pipe, 12.750" O.D. x .500" WT., Gr. X-42 U.S. Steel Pipe
		3	Valve, Swing Check 12.750" A.N.S.I. Class 900, API 6D W/Bolted Bonnet, Full Opening, Wn x Wn., Bore 11.750 In. W/18 In. Long 12.750" O.D. x .500" W.T. Gr. X-42 Pipe Each End Full Flow Thru Conduit W/ Outside Lever & Locking Device Fitted For Underseas Service & Coated W/ Tarset Per T.G.P. Specs. W-1.
		~	Coating "A" ~

"AS-CONSTRUCTED"

C.O. NUMBER & DESCRIPTION	ORIG. CONST. C.O. 46274
FIELD BOOKS PRELIM.	
CONST.	13822
FINAL	13822

REFERENCE DRAWINGS

DRAWING NO.	TITLE
TO-F2-523M-2300-1	Ln. Nº 523M-2300 ~ Alignment
TO-F2-523M-3900-1	Ln. Nº 523M-3900 ~ Alignment
TO-F2-523M-4600-1A	Val. Nº 523M-4601 Details
TO- " " -1B	Platform 343B Riser Details
TO- " " -1C	Val. Nº 523M-4602 Details
TO- " " -1D	Material For 343B Platform

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

DRAWN BY	L.R.R.	DATE	1-3-78
CHECKED BY	C.J.B.	DATE	1-3-78
CORRECTED BY		DATE	
APPROVED BY		DATE	
C.O.	46274	SCALE	SHOWN
ISSUE DATES	ORIGINAL		
	LAST		

SHIP SHOAL-EUGENE ISLAND BLK. 343B LN.

LINE Nº 523M-4600

EUGENE ISLAND AREA, GULF OF MEXICO

VALVE SECTION ENTIRE LINE ON THIS SHEET

APPROVED BY OCS-G 3648
ASST. CHIEF ENGINEER

TENNESSEE GAS PIPELINE CO.

TO-F2-523M-4600-1

EH 8

Tennessee Gas Pipeline
Division of Tenneco Inc

P.O. Drawer 53388
Lafayette, Louisiana 70501
(318) 233-7802

TENNECO

May 22, 1978

RECEIVED
MAY 24 9 08 AM '78
BUR OF LAND MGMT.
OUTER CONTINENTAL
SHELF OFFICE
NEW ORLEANS, LA.

The Bureau of Land Management
U. S. Department of The Interior
Hale Boggs Federal Building
500 Camp Street, Suite 841
New Orleans, Louisiana 70130

Attn: Chief, Division of Operations

Your Re: OCS-G 3648

Our Re: Eugene Island Blk. 343B Line

Dear Sir:

Please be advised that Tennessee Gas Pipeline Company's contractor, McDermott, plans to start construction on the above captioned line on or before June 1, 1978. This will be a conventional lay and McDermott's lay barge has a heliport.

Yours very truly,

R. S. Perot

R. S. Perot (Mrs jsb)
Right of Way Agent

RSP/jsb

cc: R. L. Sanderson
H. E. Fisher
R. G. Robertson
J. D. DeBlieux
F. J. Millette, Jr.
File

RMB
3/2/78

3341 (400)

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OCS-G 3648

Eugene Island Area,
South Addition

CERTIFIED MAIL NO. 085285

February 24, 1978

DECISION

Tenneco Inc.

Right-of-way

Application Approved

The above application was filed for approval on December 29, 1977, pursuant to Sec. 5(c) of the Outer Continental Shelf Lands Act of August 7, 1953 (67 Stat. 462) and the regulations promulgated thereunder (43 CFR 2883).

This application is for a right-of-way 200 feet in width for the construction, maintenance, and operation of a 16-inch natural gas pipeline, 0.97 mile in length from Texaco Inc.'s Platform "B" to a subsea tie-in with Tenneco Inc.'s 30-inch gas pipeline, all in Block 343, Eugene Island Area, South Addition, as shown on Drawings No. TA-L2-F523M-4600-1, TA-L2-F523M-4600-1A, and TA-L2-F523M-4600-1B submitted with the application.

Proof of notification of the lessees affected by the subject right-of-way has been furnished.

The applicant has further consented to the stipulations regarding nondiscrimination in employment, which are hereby made a part of this permit.

This application has been found to be in proper form and in accordance with 43 CFR 2883.2-1. The qualifications of the company and the authority of the signing officer are of record at this office.

The annual rental for the pipeline is $5.00. Operator submitted a draft in the amount of $15.00 to cover the rental for 1978 and the required application fee of $10.00.

Approval of this right-of-way is subject to the proposed pipeline being designed, constructed, operated, and maintained in compliance with applicable Department of Transportation regulations.

This application is approved under the express condition that all valves and taps will be buried to a minimum of one (1) foot below the mudline. The pipeline is not required to be buried; however, should the pipeline prove to be an obstruction to commercial fishing activities, its subsequent burial to a depth specified by the Manager may later be required.

BEST AVAILABLE COPY

Proof of construction of the pipeline authorized hereunder should be submitted in accordance with 43 CFR 2883.2-3(a).

Design characteristics of this pipeline are:

Pipeline Nomenclature	Maximum Allowable Pressure/WP Ratings
Submerged component	1,755 psig
Riser component	1,625 psig
Piping, fittings, valves	1,440 psig

Hydrostatic pressure test with water will be 2,160 psig for eight (8) hours.

The maximum allowable pressure for this pipeline is 1,440 psig, and shall not be exceeded except when hydrostatically pressure-testing the pipeline.

The permittee shall notify the Manager at least five (5) days prior to commencing construction of the pipeline and at least forty-eight (48) hours prior to the hydrostatic test. Hydrostatic test data including test procedure, hold time, a copy of pressure charts and results, along with two copies of the completion report consisting of a plat showing the location of the pipeline as installed, must be submitted to this office within sixty (60) days after completion.

Tenneco Inc. is allowed the right of appeal to the Interior Board of Land Appeals, Office of the Secretary, in accordance with the regulations in 43 CFR Part 4. See enclosed Form 1842-1. If an appeal is taken, it must be filed in the New Orleans OCS Office, Bureau of Land Management, Hale Boggs Federal Building, 500 Camp Street, Suite 841, New Orleans, Louisiana, 70130. In taking an appeal, there must be strict compliance with the regulations and the appellant will have the burden of proving by presenting positive and substantial evidence wherein the decision appealed from is in error.

H. P. Sieverding
Acting Manager

cc: Geological Survey, DOI
Office of Pipeline Safety Operations, DOT

Enclosure: (1)

NCS-6 3648

DEPARTMENT OF THE ARMY
NEW ORLEANS DISTRICT, CORPS OF ENGINEERS
P. O. BOX 60267
NEW ORLEANS, LOUISIANA 70160

BEST AVAILABLE COPY

LMNOD-SP (Gulf of Mexico)2227

13 February 1978

Tennessee Gas Pipeline Company
P.O. Drawer 53388 OCS
Lafayette, Louisiana 70505

Gentlemen:

Additional drawings attached (3 sheets), furnished with your application dated 1 December 1977, covering installation of a 16-inch gas pipeline, are approved and will be included in your plans for the work authorized by the Secretary of the Army in permit dated 27 April 1976 from the District Engineer at New Orleans, Louisiana. This permit authorized installation and maintenance of a 16-inch gas pipeline, in the Gulf of Mexico, central to a point about 107 miles southerly from Morgan City, Louisiana, off St. Mary Parish.

The conditions to which the work is made subject remain in full force and effect.

The inclosed Notice of Authorization, ENG Form 4336, is to be conspicuously displayed at the site of work.

BY AUTHORITY OF THE SECRETARY OF THE ARMY:

2 Incl
1. Set of dwg (3 sheets)
2. ENG Form 4336

HENRY R. SCHORR
Asst Chief, Operations Division
for
EARLY J. RUSH III
Colonel, CE
District Engineer

✓ CF: Mineral

US Department of the Interior
Bureau of Land Management
Hale Boggs Federal Building, Suite 841
300 Camp Street
New Orleans, Louisiana 70130

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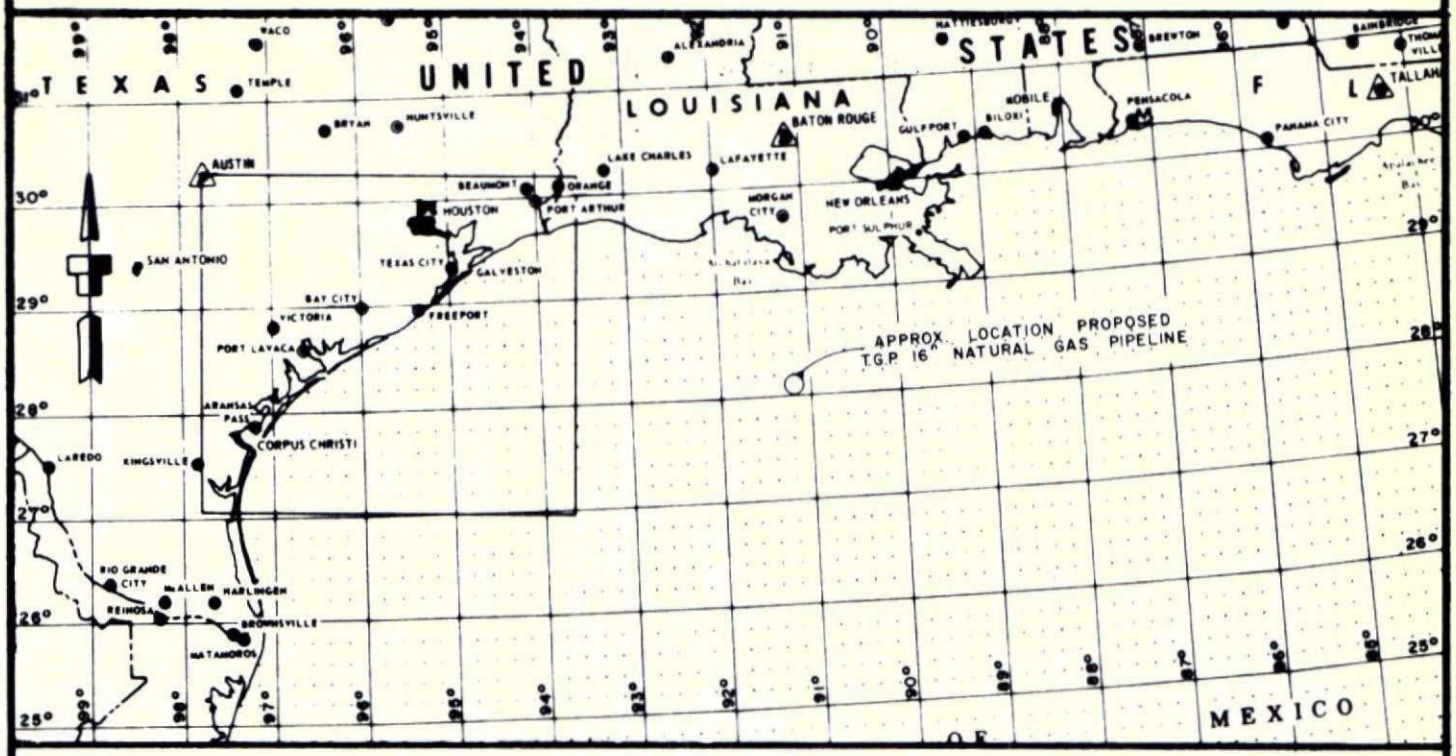


VICINITY MAP

0 50 100 150 200

SCALE OF MILES

NOTES:

THIS PIPELINE TO BE USED TO TRANSPORT NATURAL GAS FROM THE OUTERCONTINENTAL SHELF TO THE MARKET.

ALL BEARINGS SHOWN ARE LAMBERT

VICINITY MAP TAKEN FROM HURRICANE PLOTTING MAP

PROPOSED WIDTH OF RIGHT-OF-WAY 200'

NOTES CONT'D.

CORPS OF ENGINEERS PERMIT FOR EXISTING T.G.P. NATURAL GAS PIPELINES, "LMNOD-SP (GULF OF MEXICO) 2229".

TOTAL LENGTH OF LINE = 5,146.12 FT. = 0.97 MILES.

QUANTITY TO BE EXCAVATED = 0.

U.S.C. & G.S.	FROM MONUMENT "END", 1933 TO	
PT.	BEARING & DISTANCE	
A	S 7° 34' 41.09" W — 390,568.77'	
B	S 7° 17' 40.18" W — 395,333.22'	

NO.	DATE	REVISION	REV.	CKD	APR	DRAWING NO.	TITLE
						TA-N2-F523M-4600-1B	PROFILE
						TA-N2-F523M-4600-1A	PLAN
						REFERENCE DRAWINGS	

DRAWN BY G.L.D.	DATE 11-7-77
CHECKED BY C.J.B.	DATE 11-14-77
CORRECT BY	DATE
APPROVED BY	DATE
SCALE SHOWN	C. O.

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

APPROVED BY Reno G. Robertson FOR CHIEF ENGINEER

PROPOSED 16" NATURAL GAS PIPELINE IN THE GULF OF MEXICO

CENTRALLY LOCATED APPROX. 86.0 MILES SOUTHWEST OF COCODRIE, TERREBONNE PARISH, LOUISIANA

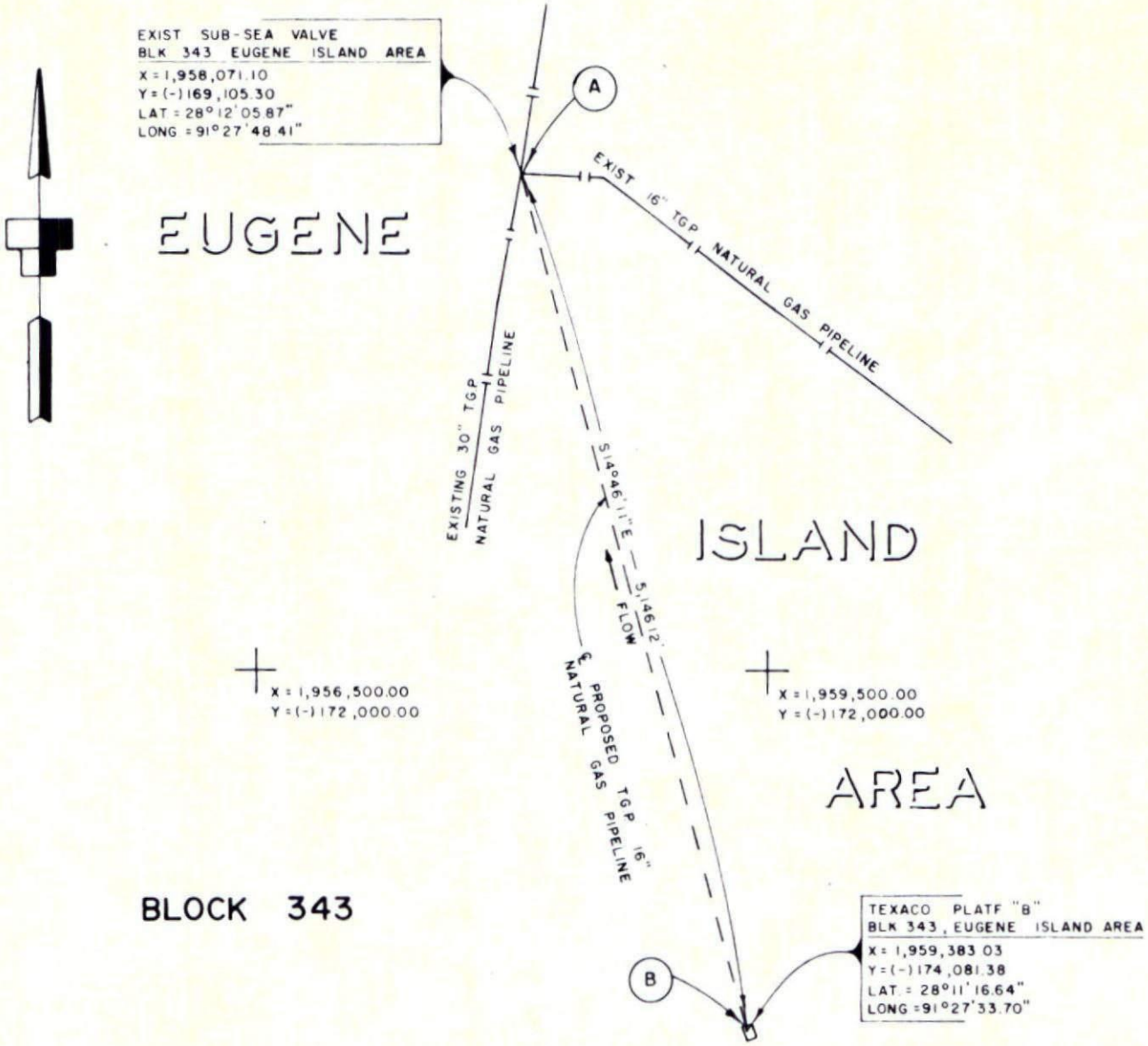
Tennessee Gas Pipeline Co.

TA-N2-F523M-4600-1

EUGENE ISLAND BLK. 343-B LINE

Incl 1

BEST AVAILABLE COPY



PLAN

0 1000 2000 3000

SCALE OF FEET

NO.	DATE	REVISION	REV.	CKD	APR	DRAWING NO.	TITLE
						TA-N2-F523M-4600-1B	PROFILE
						TA-N2-F523M-4600-1	VICINITY MAP

REFERENCE DRAWINGS

DRAWN BY G.L.D.	DATE 11-11-77
CHECKED BY C.J.B.	DATE 11-14-77
CORRECT BY	DATE
APPROVED BY	DATE
SCALE SHOWN	C.O.

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

APPROVED BY Kenn G. Robertson For CHIEF ENGINEER

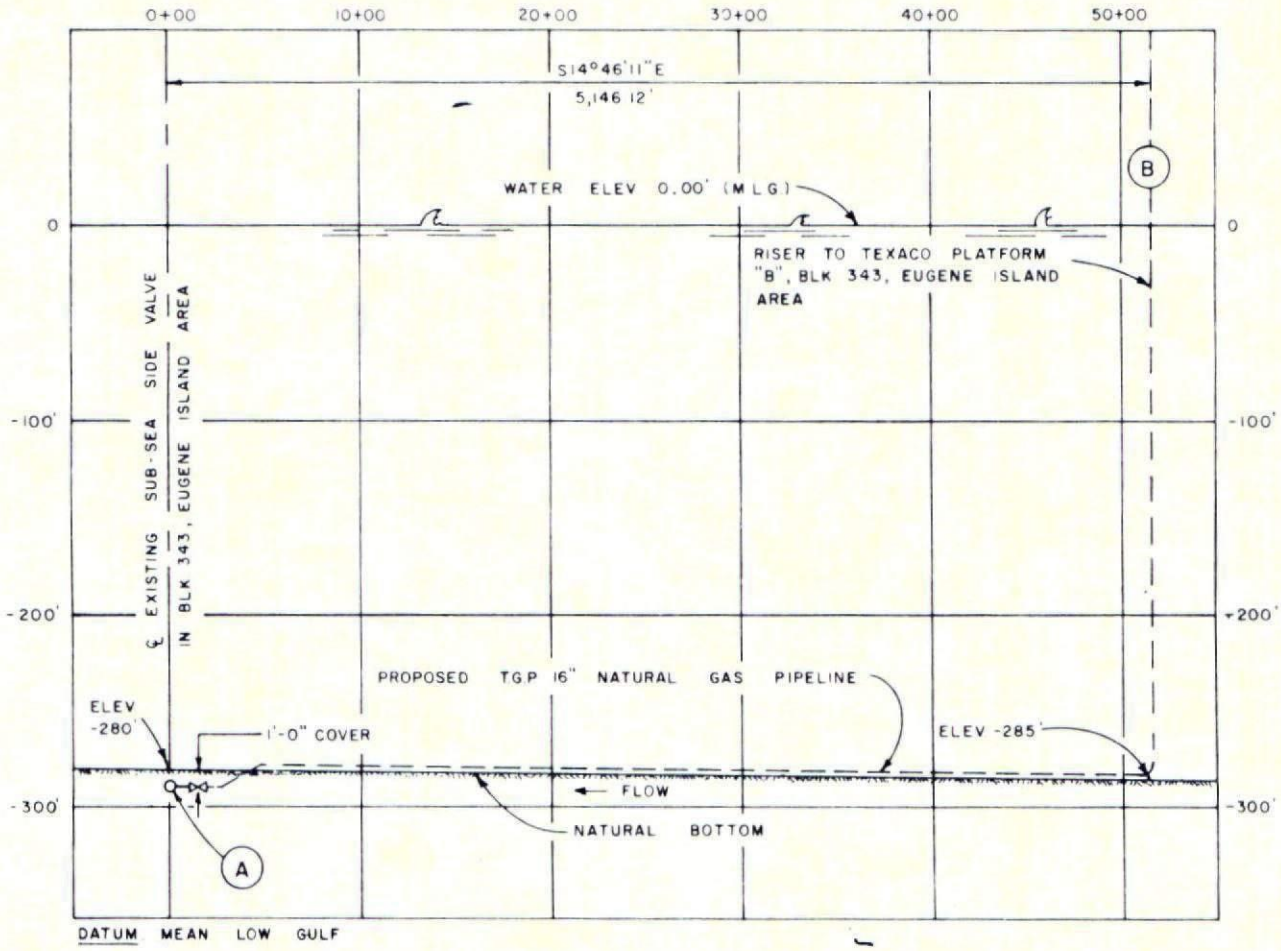
PROPOSED 16" NATURAL GAS PIPELINE IN THE
GULF OF MEXICO
CENTRALLY LOCATED APPROX. 86.0 MILES SOUTHWEST
OF COCODRIE, TERREBONNE PARISH, LOUISIANA

Tennessee Gas Pipeline Co.

TA-N2-F523M-4600-1A

EUGENE ISLAND BLK. 343-B LINE

BEST AVAILABLE COPY



PROFILE

100 0 100
VERTICAL SCALE OF FEET

1000 0 1000
HORIZONTAL SCALE OF FEET

NO.	DATE	REVISION	REV.	CKD	APR

DRAWING NO.	TITLE
TA-N2-F523M-4600-1	VICINITY MAP
TA-N2-F523M-4600-1A	PLAN

REFERENCE DRAWINGS

DRAWN BY G.L.D.	DATE 11-11-77
CHECKED BY C.J.B.	DATE 11-14-77
CORRECT BY	DATE
APPROVED BY	DATE
SCALE SHOWN	C.O.

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

APPROVED BY Reno G. Robertson For CHIEF ENGINEER

PROPOSED 16" NATURAL GAS PIPELINE IN THE GULF OF MEXICO
CENTRALLY LOCATED APPROX. 86.0 MILES SOUTHWEST OF COCODRIE, TERREBONNE PARISH, LOUISIANA

Tennessee Gas Pipeline Co.

TA-N2-F523M-4600-1B

EUGENE ISLAND BLK. 343-B LINE

United States Department of the Interior

GEOLOGICAL SURVEY

434 IMPERIAL OFFICE BLDG., 3301 N. CAUSEWAY BLVD.

P. O. BOX 7944

METAIRIE, LOUISIANA 70010

TEL: (504) 837-4720

JAN 20 1978

In Reply Refer To: PC-3

To: Manager, Outer Continental Shelf Office, Bureau of Land Management, 841 Hale Boggs Federal Building, 500 Camp Street, New Orleans, Louisiana 70130

From: Conservation Manager, Gulf of Mexico OCS Operations

Subject: Tennessee Gas Pipeline Company's Pipeline Right-of-Way Application, BLM OCS-G 3648, Reference 3341(400)

We have reviewed the safety features and design specifications for the subject Right-of-Way Application, dated December 7, 1977, in accordance with the MOU dated August 1, 1974. It is for the construction, maintenance, and operation of a 16-inch gas pipeline 5,146 feet in length from Texaco's Platform "B" to a subsea tie-in with Tennessee Gas Pipeline Company's 30-inch gas pipeline, BLM OCS-G 1950-J, both in Eugene Island Block 343, lease OCS-G 2320.

Based upon information submitted in the application, the design characteristics of this pipeline are calculated to be as follows:

Pipeline Component	Maximum Allowable Operating Pressure/WP Ratings
Submerged component	1,755 psig
Riser component	1,625 psig
Pipeing, fittings, valves	1,440 psig

Hydrostatic pressure test with water will be 2,160 psig for 8 hours.

Based on these calculations, we recommend that the maximum allowable operating pressure for this pipeline be 1,440 psig and that this pressure may be exceeded only when hydrostatically pressure-testing the pipeline. We also recommend that valves and taps be provided with a minimum of three feet of cover, either through burial or with sandbags.

The technical aspects of the proposed pipeline are acceptable in accordance with appropriate regulations and standards.

We would appreciate receiving a copy of the plat showing the location of the pipeline as installed.

Lowell S Hammons

Acting Conservation Manager

UNITED STATES GOVERNMENT

Memorandum

DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

P-C-3

IN REPLY REFER TO:

3341 (400)

BEST AVAILABLE COPY

TO : Conservation Manager
Gulf of Mexico OCS Operations - USGS

Date: January 9, 1978

FROM : Manager
New Orleans OCS Office - BLM

SUBJECT : Tenneco Inc.'s Pipeline Right-of-way Application (OCS-G 3648)

Attached is additional information which you may use to further evaluate the subject application.

If you have any questions regarding this matter, please contact Mr. Emile H. Simoneaux, Jr. of this office.

H B Sullivan

Acting

Attachment:
Drawing Number TA-L2-F523M-4600-1B

NOTED—MC INTOSH

DSC-1541-2
Mar. 1974

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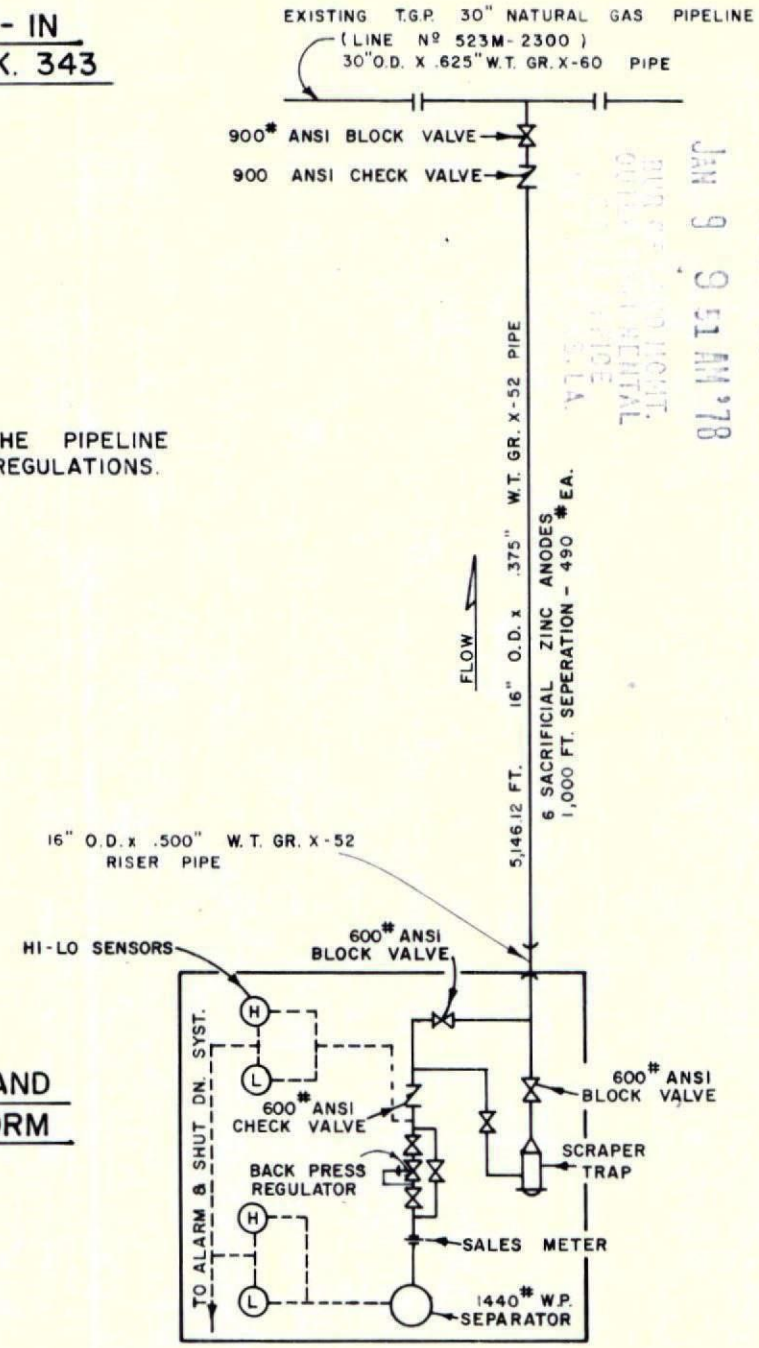
UNDER WATER TIE - IN
EUGENE ISLAND BLK. 343



NOTE:
DESIGN CHARACTERISTICS OF THE PIPELINE ARE IN COMPLIANCE WITH D.O.T. REGULATIONS.

TEXACO EUGENE ISLAND
[redacted] 343-B PLATFORM

STATE OF LOUISIANA
RICHARD E. LYONS
REG. No 11308
REGISTERED
PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING

RECEIVED
JAN 9 9 51 AM '78

DRAWING NO.	TITLE
TA-L2-F523M-4600-1	PLAN
TA-L2-F523M-4600-1A	PROFILE

NO.	DATE	REVISION	REV.	CKD	APR

REFERENCE DRAWINGS

DRAWN BY G.L.D.	DATE 11-15-77
CHECKED BY C.J.B.	DATE 11-18-77
CORRECT BY	DATE
APPROVED BY	DATE
SCALE NONE	C. O.

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

APPROVED BY R. E. Lyons For CHIEF ENGINEER

SCHEMATIC
PROPOSED T.G.P. 16" EUGENE ISLAND
BLK. 343-B LINE
EUGENE ISLAND AREA - GULF OF MEXICO

Tennessee Gas Pipeline Co.

TA-L2-F523M-4600-1B

EUGENE ISLAND BLK. 343-B LINE

OCS G 3648

UNITED STATES GOVERNMENT

Memorandum

DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

IN REPLY REFER TO:
3341 (400)

TO : Conservation Manager
Gulf of Mexico OCS Operations - USGS

Date: January 5, 1978

FROM : Manager
New Orleans OCS Office - BLM

SUBJECT : Tenneco Inc.'s Pipeline Right-of-way Application (OCS-G 3648)

In accordance with the memorandum of understanding between the Bureau of Land Management and U. S. Geological Survey signed August 1, 1974, the subject application is attached.

Please review the technical aspects of the proposed pipeline. If you have any questions regarding this matter, please contact Mr. Emile H. Simoneaux, Jr. of this office.

Attachments
1. Application dated December 7, 1977
2. Drawings No. TA-L2-F523M-4600-1, TA-L2-F523M-4600-1A, and TA-L2-F523M-4600-1B
3. Letter dated November 2, 1977 w/attachment
4. Confirmation/Report of Telephone Conversation dated January 5, 1978

NOTED—MC INTOSH

NOTED—MC BEE

DSC-1541-2
Mar. 1974

3341 (400)
OCS-G 3648

Form 1541-3
(July 1965)
(formerly 4-1599 a)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

CONFIRMATION/REPORT OF TELEPHONE CONVERSATION

TO		FROM	
Name	Mr. Carol Breaux	Name	Emile H. Simoneaux, Jr.
Office	Tenneco Inc.	Office	New Orleans OCS Office
Location	Lafayette, Louisiana	Location	New Orleans, Louisiana
Telephone Number	233-7802	Telephone Number	589-6541

Purpose of Call:

I called Mr. Breaux in regards to his right-of-way application OCS-G 3648. I informed him that the Safety Schematic depicts a low pressure sensor downstream of the check valve on the Texaco "B" platform in Eugene Island Area, Block 343, and the low pressure sensor should be upstream of the check valve. He told me that the schematic was in error. He said that he used an old base drawing; however, he agreed to correct the schematic and forward me a revised schematic. I also inquired about the method of hydrostatic pressure testing the line. He said that the riser will be tested on shore for four hours. After the riser is installed and the submerged line completed, the riser and the pipe will be tested together for eight hours at 2,160 psig.

Explanatory Remarks:

Jan. 5, 1978
(Date)

Emile H. Simoneaux Jr.
(Signature)

CONFIRMATION COPY

Tennessee Gas Pipeline
Division of Tenneco Inc

P.O. Drawer 53388
Lafayette, Louisiana 70501
(318) 233-7802

December 7, 1977

Mr. John L. Rankin, Manager
Outer Continental Shelf Office
500 Camp Street, Suite 841
Hale Boggs Federal Building
New Orleans, Louisiana 70130

Re: Application - Right of Way for 16" Natural Gas Pipeline in Eugene Island Area, Gulf of Mexico, Eugene Island Blk. 343B Line

Dear Mr. Rankin:

Pursuant to Section 5 (c) of the Outer Continental Shelf Lands Act of August 7, 1953 (67 Stat.464), and the regulations contained in 43 CFR 2883, Tennessee Gas Pipeline Company, a Division of Tenneco Inc., is filing this application for a right of way 200 feet (200') in width for the purpose of constructing and maintaining a sixteen inch (16") natural gas pipeline in the Eugene Island Area, Gulf of Mexico. Tennessee Gas Pipeline Company 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 Texaco's "B" platform in Block 343, ~~South Marsh Island Area~~ EUGENE ISLAND AREA, S.A, in the Gulf of Mexico. The tentative construction date is February 1, 1978, and tentative completion date is June 30, 1978.

As set forth in the April 1, 1976, guidelines as amended February 1, 1977, and April 21, 1977, the applicant agrees to furnish the following:

1. Letter of Application, in duplicate

2. Certified and Return Receipts with copies of letter of notification to the following lease and right of way holders:

TENNESSEE GAS PIPELINE COMPANY

a. Texaco Inc. OCS-G 2320
b. Tenneco Exploration Ltd. - OCS-G 2320
c. Texas Gas Transmission Corporation - OCS-G 1950-J
d. Texas Eastern Transmission Corporation - OCS-G 1950-J

3. Six (6) blue line prints of Drawing No. TA-L2-F523M-4600-1, TA-L2-F523M-4600-1A and TA-L2-F523M-4600-1B showing the location, profile and route of the proposed pipeline, and Hi-Lo Censor locations.

4. Two (2) blue line prints of Drawing No. TA-L2-F523M-4600-2 showing the leases and pipeline rights of way.

5. Bury all pipelines to a minimum of 3 ft. of cover up to the 200 ft. contour.

6. Bury all sub-sea valves to a minimum of 1 ft. of cover regardless of water depth.

7. A hazard survey report of the proposed right of way route. is attached in duplicate.

8. ~~An archaeological survey report as stipulated in requirements is attached in duplicate.~~ Not applicable

9. In accordance with the guidelines an As-Built map along with diving inspection reports will be provided within 90 days after completion of the pipeline.

10. Safety devices will be provided as set forth on attached schematic Drawing No. TA-L2-F523M-4600-1B.

11. Proper notification prior to construction and hydrostatic testing will be adhered to.

12. Any pipeline crossings will be in compliance with the guidelines as set forth.

13. 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-L2-F523M-4600-1A.

2. The description of the pipe and coating is as follows:

   a. Line Pipe - 16" OD x .375" W.T. Gr X-52; Weight Bare - 62.58#/ft. coated with 22 mils of heat cured epoxy or coal tar enamel 6/32" thick, and weighted with a continuous coat of 140# density concrete 2-1/2" thick, giving a specific gravity of 1.35 in salt water (64.0#/cu. ft.)

   b. Riser Pipe - 16" OD x .500" W.T. Gr X-52; Weight Bare - 82.77#/ft. coated with 22 mils of heat cured epoxy or coal tar enamel 6/32" thick, and weighted with a continuous coat of 140# density concrete 2" thick giving a specific gravity of 1.40 in salt water (64.0#/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. 900 series with a rated working pressure of 2160# P.S.I.

   b. Above water flanges and valves will be A.N.S.I. 600 series with a rated working pressure of 1440# 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-L2-F523M-4600-1B 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 "Minimum Federal Safety Standards (Department of Transportation) Title 49, CFR, Part 192."

7. Maximum Allowable Operating Pressure (M.A.O.P.) = 1440# P.S.I.G.

   Maximum Capacity = 146 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

   16" OD x .500" W.T. Gr X-52

   $$P = \frac{2 \times 52{,}000 \times .500''}{16''} = 3{,}250\#\ P.S.I.G.$$

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

   $$M.A.O.P. = \frac{2 \times 52{,}000 \times .500'' \times .50 \times 1 \times 1}{16''} = 1{,}625\#\ P.S.I.G.$$

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

H.T.P. = P x 90%
= 3,250 x .90 = 2,925# P.S.I.G.
H.T.P. will be 2,160# P.S.I.G. for 4 hours

$$M.A.O.P. = \frac{2,160}{1.5} = 1,440\# \text{ P.S.I.G.}$$

(3) M.A.O.P. = 1,625# P.S.I.G. (Design) or
1,440# P.S.I.G. (H.T.P.)

b. Line Pipe

16" OD x .375" W.T. Gr X-52

$$P = \frac{2 \times 52,000 \times .375''}{16''} = 2,437.5\# \text{ P.S.I.G.}$$

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

$$M.A.O.P. = \frac{2 \times 52,000 \times .375'' \times .72 \times 1 \times 1}{16''} = 1,755\# \text{ P.S.I.G.}$$

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

H.T.P. = P x 90%
= 2,437.5 x .90 = 2,193.75# P.S.I.G.
H.T.P. will be 2,160# P.S.I.G. for 8 hours

$$M.A.O.P. = \frac{2,160}{1.25} = 1,728\# \text{ P.S.I.G.}$$

(3) M.A.O.P. = 1,755# P.S.I.G. (Design) or
1,728# 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. The 30" line that the proposed line will tie into is 30" O.D. x .625" W.T. Gr X-60 pipe.

TENNESSEE GAS PIPELINE COMPANY

10. An originally signed copy of Non-Discrimination in Employment Stipulations is enclosed.

11. Company contact:

    Mr. Reno G. Robertson
    Division Civil Engineer
    P. O. Drawer 53388, OCS
    Lafayette, Louisiana 70505
    Telephone (318) 233-7802

12. Tennessee Gas Pipeline Company's Draft No. 24080 in the amount of $15.00 of which $10.00 covers the application fee and $5.00 covers the first year's rental on 0.97 mile of right of way is also enclosed.

Please refer to your miscellaneous 014 file for a copy of a resolution approved by the Board of Directors authorizing the undersigned as Director-Rights 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.

Yours very truly,

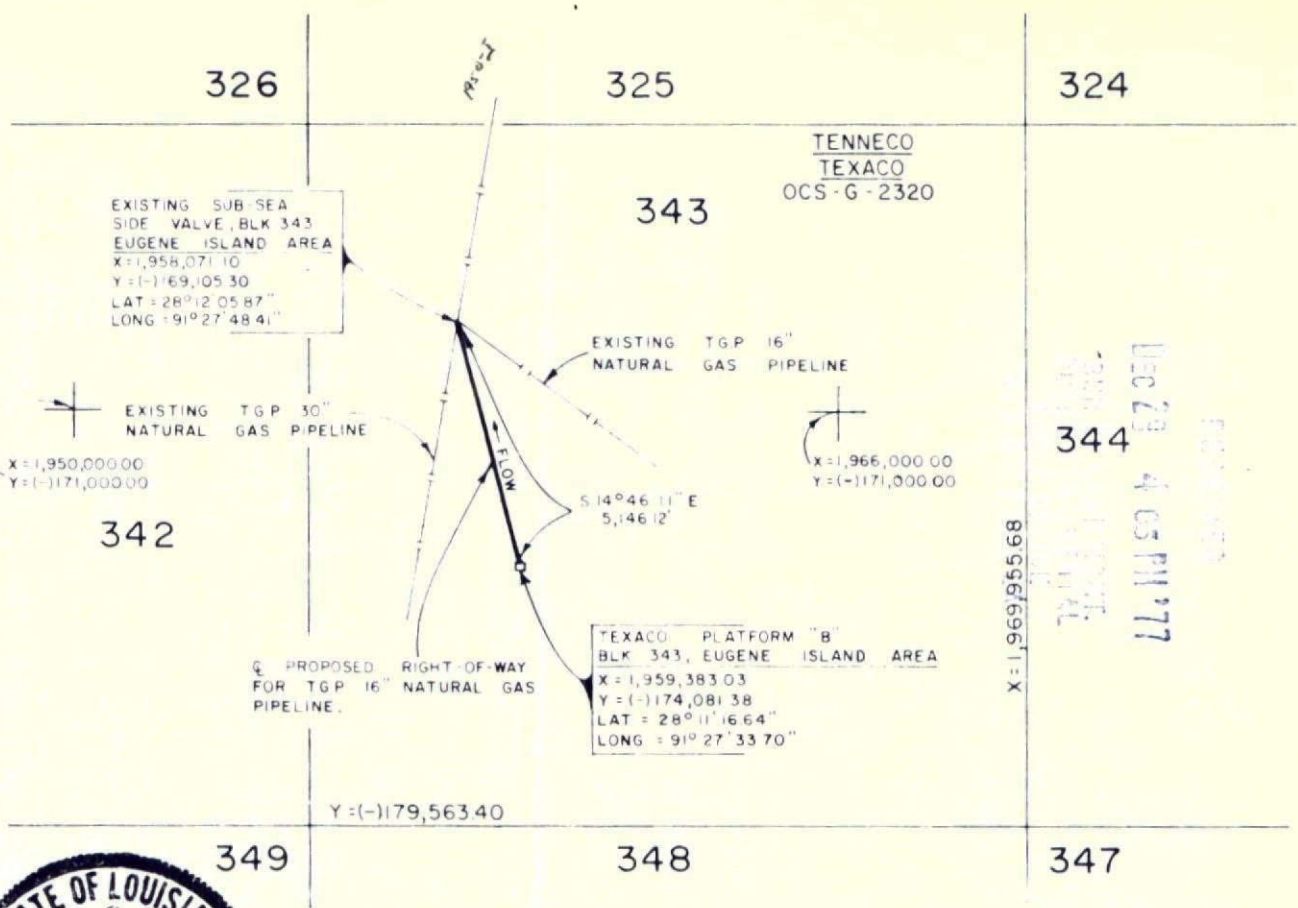
TENNESSEE GAS PIPELINE COMPANY
A DIVISION OF TENNECO INC.

Roy A. Smith, Director
Rights of Way as
Agent and Attorney-in-Fact

FORM
C.L.L.
APPROVED

Certified Mail - Return Receipt #793359

EUGENE ISLAND AREA



PLAN

4000 0 4000 8000
SCALE OF FEET

STATE OF LOUISIANA
RICHARD E LYONS
REG. No.
REGISTERED PROFESSIONAL ENGINEER IN CIVIL ENGINEERING

LOCATION OF RIGHT-OF-WAY HAS BEEN ACCURATELY DELINEATED UPON THIS MAP

Richard E. Lyons

RICHARD E. LYONS
LOUISIANA REGISTERED PROFESSIONAL CIVIL ENGINEER NO. 11308

NOTE:

THIS PIPELINE TO BE USED TO TRANSPORT NATURAL GAS FROM THE OUTERCONTINENTAL SHELF TO EXISTING SYSTEM.

ALL BEARINGS SHOWN ARE LAMBERT.

PROPOSED WIDTH OF RIGHT-OF-WAY 200 FT.

THE DESIGN OF THIS PIPELINE RIGHT-OF-WAY COMPLIES WITH D.O.T. REGULATIONS.

TOTAL LENGTH OF PIPELINE IS 5,146.12 FT. = 0.97 MI.

BEST AVAILABLE COPY

NO.	DATE	REVISION	REV.	CKD	APR	DRAWING NO.	TITLE
						TA-L2-F523M-4600-1B TA-L2-F523M-4600-1A	SCHEMATIC PROFILE
						REFERENCE DRAWINGS	

DRAWN BY G.L.D.	DATE 11-17-77
CHECKED BY C.J.B.	DATE 11-17-77
CORRECT BY	DATE
APPROVED BY	DATE
SCALE SHOWN	1" = 0

OCS-G 3648

Tennessee Gas Pipeline Company
Engineering Department Houston, Texas

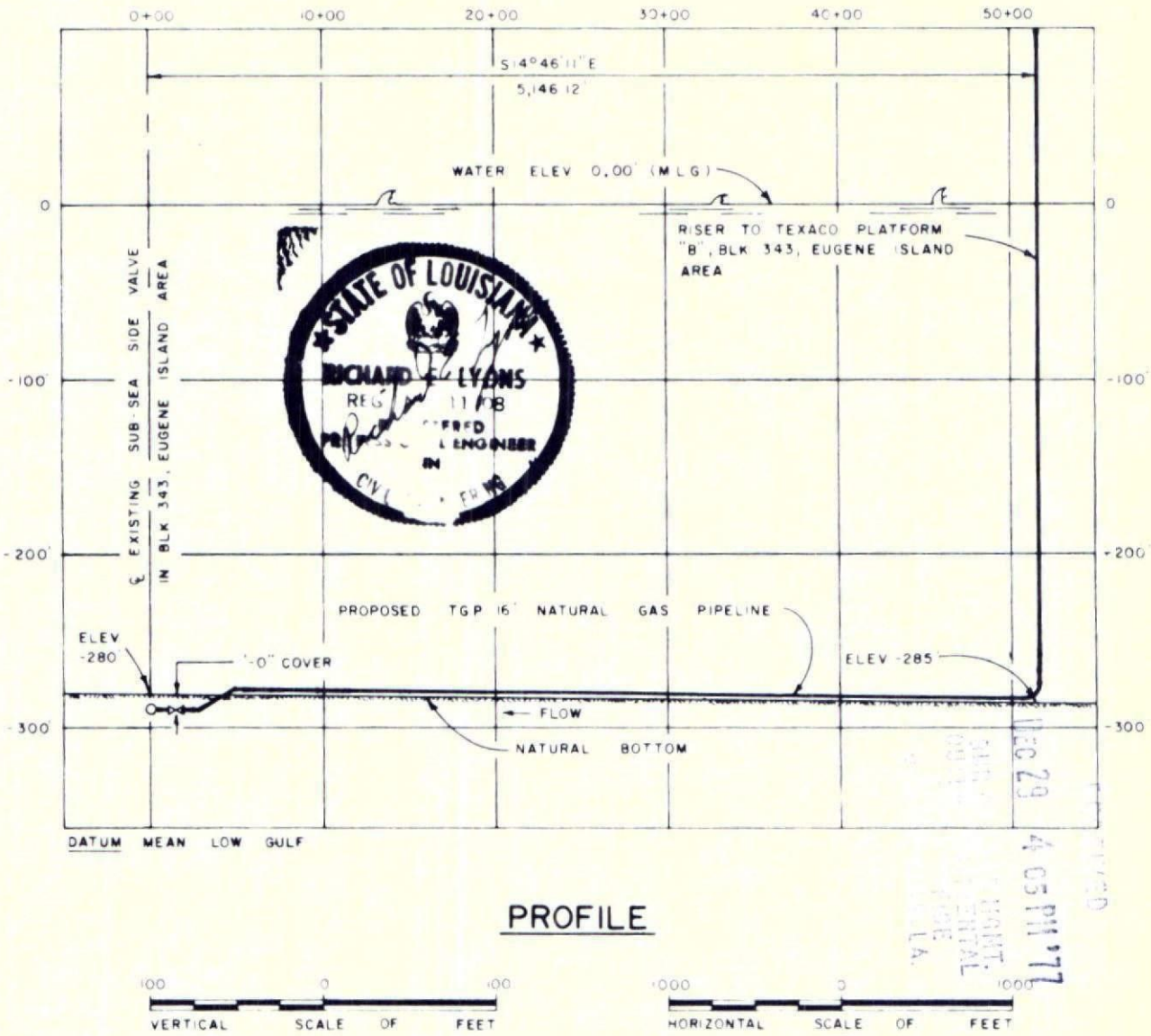
APPROVED BY
For CHIEF ENGINEER

APPLICATION PLAT FOR PROPOSED NATURAL GAS PIPELINE RIGHT-OF-WAY

Tennessee Gas Pipeline Co.

TA-L2-F523M-4600-1

EUGENE ISLAND BLK 343-B LINE



STATE OF LOUISIANA
RICHARD E. LYONS
REG. 11108
REGISTERED PROFESSIONAL ENGINEER IN CIVIL ENGINEERING

DEC 29 4 05 PM '77
DEPT. OF NAT. RESOURCES
NEW ORLEANS, LA.

PROFILE

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NO.	DATE	REVISION	REV.	CKD	APR	DRAWING NO.	TITLE
						TA-L2-F523M-4600-1B	SCHEMATIC
						TA-L2-F523M-4600-1	PLAN

REFERENCE DRAWINGS

DRAWN BY G L D	DATE 11-11-77
CHECKED BY C J B	DATE 11-14-77
CORRECT BY	DATE
APPROVED BY	DATE
SCALE SHOWN	C O

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

APPROVED BY R. E. Jones FOR CHIEF ENGINEER

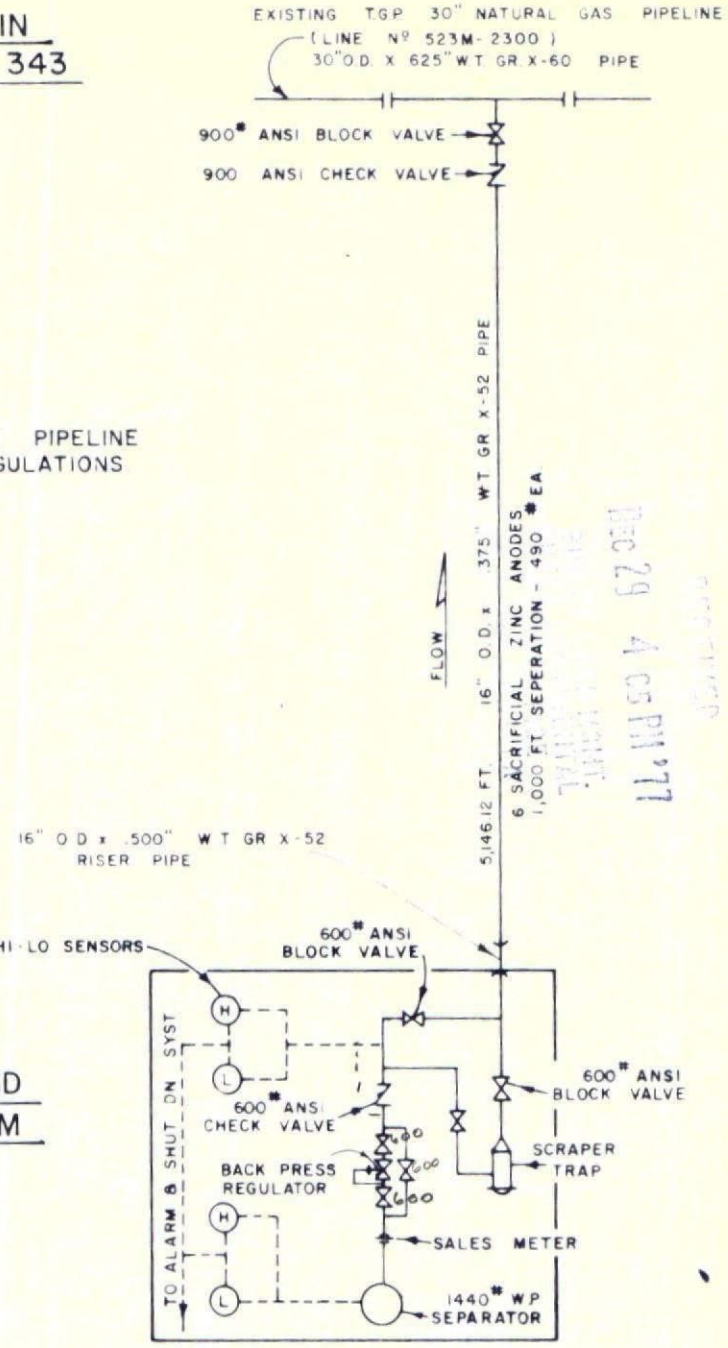
APPLICATION PLAT FOR PROPOSED NATURAL GAS PIPELINE RIGHT-OF-WAY

Tennessee Gas Pipeline Co.

TA-L2-F523M-4600-1A

EUGENE ISLAND BLK 343-B LINE

UNDER WATER TIE - IN
EUGENE ISLAND BLK. 343



NOTE:
DESIGN CHARACTERISTICS OF THE PIPELINE ARE IN COMPLIANCE WITH D.O.T. REGULATIONS

TEXACO EUGENE ISLAND
343-B PLATFORM

STATE OF LOUISIANA
RICHARD E. LYONS
REG. No. 11308
REGISTERED
PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING

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DRAWING NO.	TITLE
TA-L2-F523M-4600-1	PLAN
TA-L2-F523M-4600-1A	PROFILE

NO	DATE	REVISION	REV	CKD	APR

REFERENCE DRAWINGS

DRAWN BY G.L.D.	DATE 11-15-77
CHECKED BY C.J.B.	DATE 11-18-77
CORRECT BY	DATE
APPROVED BY	DATE
SCALE NONE	C.O.

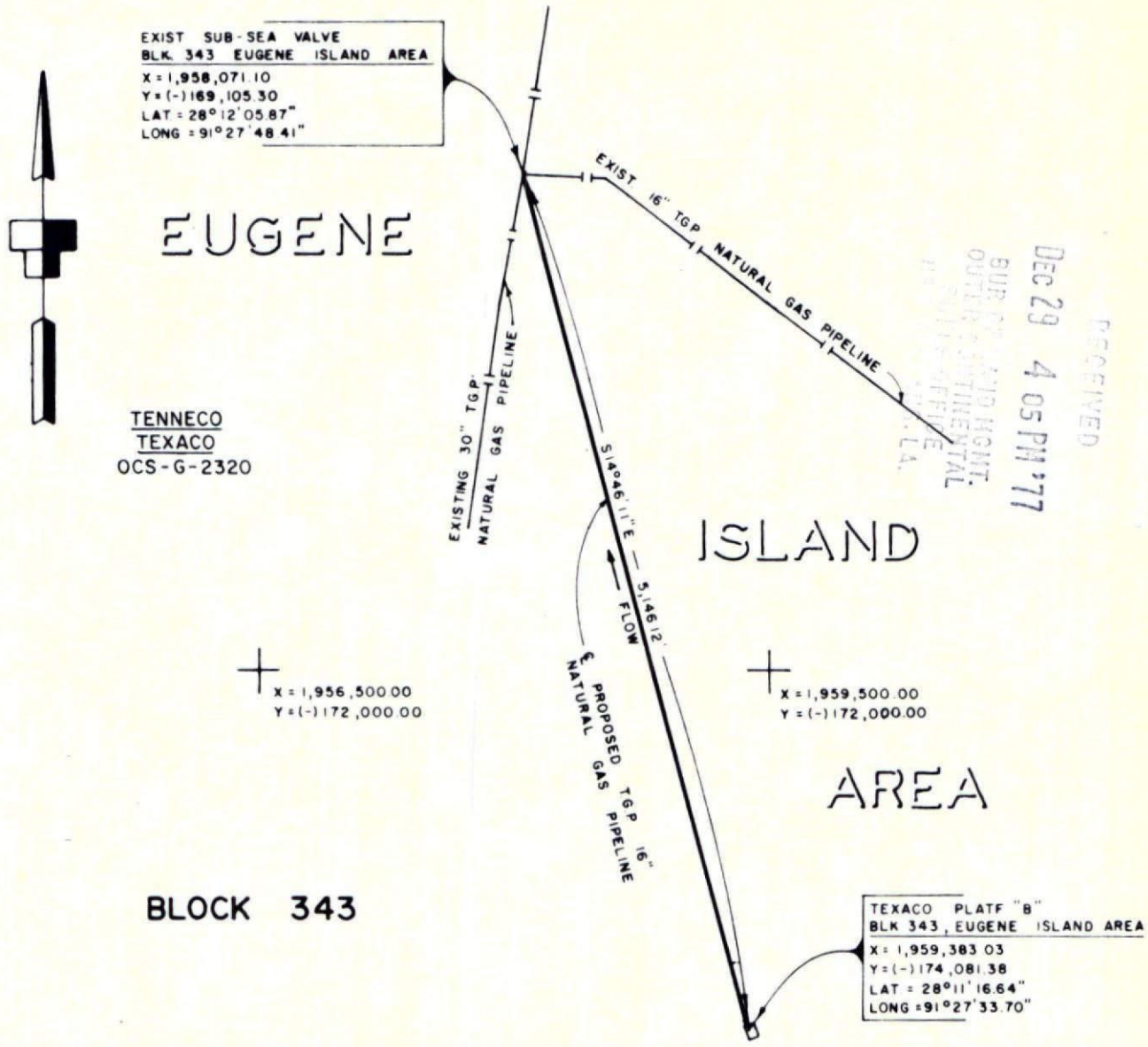
Tennessee Gas Pipeline Company
Engineering Department Houston, Texas

APPROVED BY R. E. Lyons FOR CHIEF ENGINEER

SCHEMATIC
PROPOSED T.G.P. 16" EUGENE ISLAND
BLK. 343-B LINE
EUGENE ISLAND AREA - GULF OF MEXICO

Tennessee Gas Pipeline Co.

TA-L2-F523M-4600-1B



PLAN

0 1000 2000 3000

SCALE OF FEET

NOTE:
ALL BEARINGS SHOWN ARE LAMBERT.

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NO.	DATE	REVISION	REV.	CKD	APR	DRAWING NO.	TITLE
						REFERENCE DRAWINGS	

DRAWN BY G.L.D	DATE 11-11-77
CHECKED BY C.J.B	DATE 11-14-77
CORRECT BY	DATE
APPROVED BY	DATE
SCALE SHOWN	C.O.

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

APPROVED BY Reno G. Robertson For CHIEF ENGINEER

PROPOSED T.G.P. 16" NATURAL GAS PIPELINE
CROSSING THRU BLOCK 343
EUGENE ISLAND AREA

Tennessee Gas Pipeline Co.

TA-L2-F523M-4600-2

OCS-G 3648

EUGENE ISLAND BLK. 343-B LINE

Tennessee Gas Pipeline
Division of Tenneco Inc

P.O. Drawer 53388
Lafayette, Louisiana 70501
(318) 233-7802

TENNECO

November 2, 1977

(Line tied-into)

Nov 3 10 09 AM '77

Mr. Emil Simoneaux
Bureau of Land Management
Hale Boggs Federal Building
Suite 841, 500 Camp Street
New Orleans, Louisiana 70130

Your Re: OCS-G 1950-J

Our Re: Eugene Island Blk. 349

Dear Emil:

Per your telephone conversation with our Mr. Reno Robertson of even date, we attach herewith Pipe Test Report dated September 30, 1975, on the above captioned line for your information and files.

The Maximum Operating Pressure on this line is 1440 psig which is determined by the maximum operating pressure of the valves.

If we can be of any further help to you in this matter, please give us a call.

Yours very truly,

R. S. Perot
Right of Way Agent

RSP/jsb
Enclosure

cc: R. L. Sanderson
H. E. Fisher
R. G. Robertson
F. J. Millette, Jr.
File

Tennessee Gas Pipeline (COMPANY) SHEET 1 OF 1

NOTE: SEE PROCEDURE TGT 6-129 FOR INSTRUCTIONS

PIPE TEST REPORT

C.O. NO.	DISTRICT	LINE NO.	SPREAD	SECTION	DATE
43446	524	523M-2300	LB-22	1	9-30-75

DRAWING NO.	LOCATION	SECTION TESTED	FOOTAGE
TE-FZ-523M-2300-1AB	FROM MLV 523M-2301 TO MLV 523M-2302	FROM STA. 0+78.5 TO STA. 1711+83.7	171,105.2

NOMINAL PIPE:	SIZE O.D.	W.T.	GRADE	MFR.
	30 IN.	.562, .625, .750 IN.	X-60	U.S. Steel, ARMCO, Bethlehem

100% S.M.Y.S. PRESSURE	M.A.O.P.	PIPELINE CONTRACTOR
2250 PSIG	1440 PSIG	McDermott Inc.

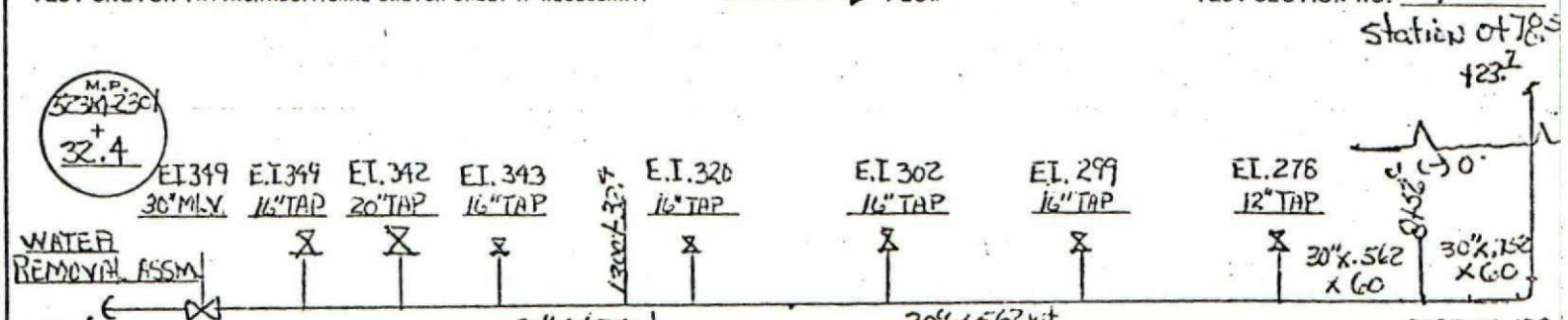
HYDROSTATIC TEST CONTRACTOR	PROJECT MANAGER
Chemical Services Inc.	Jack Busso

COMPANY PERSONNEL INVOLVED: George Benoit, L.J. Boutte, B.J. Chaney

TEST MEDIUM (WATER, GAS, AIR, OTHER): Water

	END OF TEST SECTION	PRESSURE POINT	HIGH ELEVATION	LOW ELEVATION	END OF TEST SECTION
MAP PLUS	1711+83.7	0+78.5	0+78.5	1711+83.7	0+78.5
ELEVATION (FEET)	-0-	+23.1'	+23.1'	-0-	+23.1'
TEST PRESSURE (PSI)	2141	2131	2131	2141	2131
% S.M.Y.S	95%	94.1%	94.1%	95%	94.1%

TEST SKETCH (ATTACH ADDITIONAL SKETCH SHEET IF NECESSARY) → FLOW TEST SECTION NO. 1



USEFUL CONVERSION FACTORS:	WATER SOURCE	MILE POST	WATER SOURCE TEMPERATURE
• 1 FOOT OF WATER = .433 PSI • 1 PSI = 2.31 FEET OF WATER	Gulf of Mexico	523M-2300+0.02	72°

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)			

☑ ALL TIE-IN WELDS WERE NONDESTRUCTIVELY TESTED BY Bob Gatrell

METHOD: Houston Inspectors - Gamma Ray

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: B.J. Chaney	9-30-75
	DISTRICT SIGNATURE: Ryle Hazlett	1-9-76
SIGNATURE:	DIVISION SIGNATURE: Rino H. Rinaldo	1-12-76
DATE:	AGENCY SIGNATURE:	

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TGT 4207 3/71

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	
9-29-75	2100	2131	74°	71°	Pressured Pipeline 8-26-75
	2115	2131	74°	71°	@ 900 gal/min ~~10 hrs~~ 10 psi/min
	2130	2131	74°	71°	5,713,072 Gal. used To Fill line
	2145	2131	74°	71°	with water. - Stabized
	2200	2131	74°	71°	Line Pressure From 9-26-75
	2215	2131	74°	71°	9-29-75 Pressure 2158 To
	2230	2131	74°	71°	2075.
	2245	2131	74°	71°	ON TEST - 2100
	2300	2131	74°	71°	9-29-75
	2315	2131	74°	71°	
	2330	2131	74°	71°	
	2345	2131	74°	71°	
9-30-75	2400	2131	74°	71°	
	0015	2131	74°	71°	
	0030	2131	74°	71°	
	0045	2131	74°	71°	
	0100	2131	74°	71°	
	0115	2131	74°	71°	
	0130	2131	74°	71°	
	0145	2131	74°	71°	
	0200	2131	74°	71°	
	0215	2131	74°	71°	
	0230	2131	74°	71°	
	0245	2131	74°	71°	
	0300	2131	74°	71°	
	0315	2131	74°	71°	
	0330	2131	74°	71°	
	0345	2131	74°	71°	
	0400	2131	74°	71°	
	0415	2131	74°	71°	
	0430	2131	74°	71°	
	0445	2131	74°	71°	
	0500	2131	74°	71°	
	0515	2131	74°	71°	
	0530	2131	74°	71°	
	0545	2131	74°	71°	
	0600	2131	74°	71°	
	0615	2131	74°	71°	
	0630	2131	74°	71°	
	0645	2131	74°	71°	
	0700	2131	74°	71°	OFF TEST

COMMENTS:
Deadweight S/N 10394 - Cert 9/10/75
Pressure Recorder 3000# S/N 36 Cert 9/10/75
Temp. Recorder S/N 22 Cert. 9/10/75
Pressure pump 31 Mfg. by F.W.I. H-P-125M
2 1/4" Bore - 9" stroke .331 Gal./stroke S/N HP-389
500# Press. Recorder S/N 23 Cert 9/10/75

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PIPELINE APPLICATION CHECK LIST

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NSTRUCTIONS: Check the blank on the left if the statement is affirmative or correct ata submitted. Mark N/A (not applicable) where appropriate. Place an X in the blank f the answer is no or if the data was not submitted. All blanks marked X must be ectified to a check (or qualified) before approval can be given for the pipeline. nter data in the blanks on the right.

.. Verify the following general information:

I. Do the leases involved on the P/L application appear on the current Suspension of Production (SOP) Lease List?

II. USGS Application

____ a. The applicant is a Federal lease holder and the pipeline is to be used for such purposes as:

____ 1. Moving production to a control point for gathering, treating, storing, or measuring.

____ 2. Delivery of production to a point of sale.

____ 3. Delivery of production to a pipeline operated by a transportation company.

____ 4. Moving fluids in connection with lease operations, such as for injection purposes.

____ b. The pipeline is within the lease boundary owned by the operator (If yes, include 30 CFR 250.19(b) in approval).

____ c. Pipeline is within contiguous lease boundaries (If yes, include 30 CFR 250.19(b) in approval).

____ d. Pipeline is within non-contiguous lease boundaries (If yes, include 30 CFR 250.18(c) and 30 CFR 250.19(b) in approval).

____ e. Lessee's "intent to cross" letters are received.

____ f. Pursuant to Secretarial Order 2974 of April 30, 1975, check the following:

____ 1. FWS notified _____.

____ 2. FWS comment received _____.

____ 3. BLM notified _____.

____ 4. BLM comment received _____.

____ 5. Environmental assessment required _____.

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III. BLM Application

✓ a. The pipeline must be able to be subjected to common carrier provisions (i.e., no downstream production facilities or downstream pipelines which could not be subjected to common carrier provisions).

IV. DOT Pipelines

✓ a. The pipelines are shoreward of the outlet flange at the first process facility (If yes, include 40 CFR 192 for gas P/L or 49 CFR 195 for oil P/L in approval).

V. DOI Pipelines

N/A a. Pipelines not covered by IV above.

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B. Verify that the information shown on the safety equipment schematic drawing contains the following:

✓ I. The pipeline leaving the platform receiving production from the platform is equipped with high and low pressure sensors located upstream of departing check valves to directly or indirectly shut-in the well or wells on the platform.

N/A II. The pipeline delivering production to production facilities on the platform is equipped with an automatic fail close valve tied into the automatic and remote shut-in system.

N/A III. The pipeline crossing the platform which does not deliver production to the platform, but which may or may not receive production from the platform, is equipped with high and low pressure sensors connected to an automatic fail close valve located in the upstream portion of the pipeline at the platform. In addition, the sensors are tied into either the platform's automatic and remote shut-in system or an independent remote shut-in system.

✓ IV. The pipeline boarding the ~~platform~~ SSTI is equipped with a check valve.

✓ V. The pipeline leaving the platform is equipped with a check valve. (OPTIONAL)

N/A VI. The pipeline pump is shown as well as its associated high and low pressure shut-in device.

✓ VII. If pipeline pilots are located on any process vessel, all flow restrictions (backpressure valves, chokes) downstream of pilots are indicated on the schematic.

✓ VIII. Pressure source is drawn into the schematic with the following:

✓ a. Source SEPERATOR

✓ b. Maximum source pressure, psig 1440.

✓ IX. The rated working pressures of all separators, pumps, compressors, valves, flanges, and fittings upstream of and including the boarding automatic fail close valve are shown.

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C. Verify that the location plat depicts the following:

✓ I. Location of P/L

✓ II. Length of P/L

✓ III. Size of P/L

✓ IV. Type of service

✓ V. Direction of flow

D. Verify that the information given on the submitted data sheet is complete; and calculate the $MAOP_{sc}$, $MAOP_{rc}$, $MAOP_{p/l}$.

I. General information for calculating $MAOP_{sc}$, $MAOP_{rc}$, etc.

a. Size of P/L, inches 16.

b. Weight of P/L, lbs./ft. 62.58.

c. Grade of P/L X-52.

d. Wall thickness, inches .375.

e. Size of riser, inches 16.

f. Weight of riser, lbs./ft. 82.77.

g. Grade of riser X-52.

h. Wall thickness of riser, inches .500.

i. Minimum WP rating of piping, fittings, valves, psig 1440.

j. Hydrostatic test pressure (HTP), psig 2160.

k. Hold time, hrs. 8.

l. Classification of P/L (oil or gas) gas.

I. DOI Pipelines

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a. IP @ SMYS for submerged pipeline = $\frac{2st}{D}$

b. (.72 x IP @ SMYS) for submerged pipeline = _____ ($MAOP_{sc}$)

c. IP @ SMYS for riser = $\frac{2st}{D}$ = _____

d. (.60 x IP @ SMYS) for riser = _____ ($MAOP_{rc}$)

e. See Ii above ($MAOP_{pfv}$) = _____ ($MAOP_{pfv}$)

____ f. Are b, d, and e $\geq$ MSP

_____ $\geq$ _____

NOTE: If not, a departure is necessary requiring redundant safety equipment.

____ A written request for a departure has been received and the redundant safety equipment is satisfactory.

____ g. Is 1.25 MSP $\leq$ HTP $\leq$ .95 (IP @ SMYS for smaller IP of a and c above)

_____ $\leq$ _____ $\leq$ _____

NOTE: If not, inquire of the operator as to what he considers a limit of testing as a percentage of IP @ SMYS.

____ Operator's answer _____% of IP @ SMYS (for smaller IP)

____ h. HTP/1.25 = _____

____ i. Is HTP hold time $\geq$ 2 hours

____ j. $MAOP_{p/1}$ = the smallest of b, d, e, and h above

_____ ($MAOP_{p/1}$)

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III. DOT Pipelines

a. IP @ SMYS for submerged pipeline = $\frac{2st}{D}$ = $\frac{2(52000)(.375)}{16}$ = 2437.5

b. (.72 x IP @ SMYS) for submerged pipeline = 1755 ($MAOP_{sc}$) ✓

c. IP @ SMYS for riser = $\frac{2st}{D}$ = $\frac{2(52000)(.5)}{16}$ = 3250

d. For oil P/L (.60 x IP @ SMYS) for riser = N/A ($MAOP_{rc}$)

For gas P/L (.50 x IP @ SMYS) for riser = 1625 ($MAOP_{rc}$)

e. See Ii above 1440 ($MAOP_{pfv}$)

✓ f. Are b, d, and e $\geq$ MSP

1440 $\geq$ 1440

NOTE: If not, a departure is necessary requiring redundant safety equipment.

N/A A written request for a departure has been received and the redundant safety equipment is satisfactory.

g. Limit of Testing

N/A 1. For oil P/L:

Is 1.25 MSP $\leq$ HTP $\leq$ .95 (IP @ SMYS for smaller IP of a and c above)

— $\leq$ — $\leq$ —

✓ 2. For gas P/L riser component:

Is 1.50 MSP $\leq$ HTP of riser $\leq$ .95 (IP @ SMYS of c above)

2160 $\leq$ 2160 $\leq$ 3088

✓ 3. For gas P/L submerged component:

Is 1.25 MSY $\leq$ HTP of submerged component $\leq$ .95 (IP @ SMYS of a above)

1800 $\leq$ 2160 $\leq$ 2316

NOTE: If not, inquire of the operator as to what he considers a limit of testing as a percentage of IP @ SMYS.

N/A Operator's answer — % of IP @ SMYS (for smaller IP)

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h. $MAOP_{p/l}$ based on HTP

1. For oil P/L HTP/1.25 = _____

2. For gas P/L riser component HTP/1.5 = 1440
of riser

3. For gas P/L submerged component HTP/1.25 = 1728
of submerged component

i. For oil P/L Is HTP hold time ≥ 24 hours

For gas P/L Is HTP hold time ≥ 8 hours

j. $MAOP_{p/l}$ = the smallest of b, d, e, and h above

1,440 ($MAOP_{p/l}$)

E. Verify that the information given on the submitted data sheet is complete; and calculate the life expectancy of the pipelines corrosion protection ($LE_{p/l}$)

I. General Information for Calculating $LE_{p/l}$

✓ a. Type of corrosion protection (platform anodes, P/L anodes, or rectifiers)

N/A b. If platform anodes are used:

1. Type of anode _____

2. Weight of unit anode, lbs. _____

✓ c. If pipeline anodes are used:

1. Type of anode Zinc

2. Spacing interval, ft. 1000

3. Weight of unit anode, lbs. 490

II. Calculated Life Expectancy of Corrosion Protection

N/A a. If platform anodes are used, are they considered adequate _____

✓ b. If pipeline anodes are used:

$LE_{p/l} = 3.82 \times 10^4 \times W^o/DIR$? = 45 yrs

W^o = weight of one anode, pounds = 490

D = outside diameter of pipe, inches = 16

I = interval = length of pipe, feet ÷ total number of anodes = 1000

R = consumption rate, lbs./amp-yr. = 26

✓ c. Is our calculated $LE_{p/l} \geq 20$ years

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F. Verify that the information given on the submitted data sheet is complete; and calculate the specific gravity of the pipeline ($SG_{p/1}$)

I. General Information pertaining to $SG_{p/1}$

a. Description of pipelines protective coating Epoxy or Enamel

b. Description of risers protective coating same

c. Description of pre-concrete coating same

d. Density of concrete, lbs./cu. ft. .140

e. Thickness of concrete, inches 2½

f. Thickness of asphalt/somastic —

g. Gravity or density of products ✓

For gas 0.6 (air = 1.0)

For oil/condensate — ° API, — (water = 1.0)

h. Given $SG_{p/1}$ 1.35

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II. $SG_{p/1}$

N/A a. Expoxy-coated pipelines:

$SG_{p/1} = 2.865\ W/D^2$

W = weight of bare pipe, lbs./ft.

D = diameter of pipe, inches

✓ b. For weighted pipelines:

$$SG_{p/1} = \frac{d_c}{d} + \frac{k_2}{(T-k_1)^2}\left(\frac{W+P}{k_3} - \frac{d_c}{d}\right) = \frac{140}{64} + \frac{67.04}{(2.5+8.19)^2}\left(\frac{62.58+8.94}{93.61} - \frac{140}{64}\right)$$

d_c = density of concrete, lbs./ft.^{3} 140

d = density of fluid in which pipeline is submerged, lbs./ft.^{3} 64

k_1, k_2, k_3 = coefficients from tables -8.19, 67.04, 93.61

T = thickness of concrete coating, inches 2.5

W = weight of bare pipe, lbs./ft. 62.58

P = weight of double enamel coat and felt wrap, or weight of asphaltmastic coating, lbs./ft. 8.94

$SG_{p/1}$ = 1.35

✓ c. Is our calculated SG ≅ operator's given SG

1.35 ≅ 1.35

NOTE: These values should be approximately the same. If not, resolve. If the SG is close to a value of 1, the pipeline is unacceptable and must be weighted with concrete or anchored securely to the bottom.

G. Verify the following general information:

I. Water Depth, ft. 285 (Max) 280 (Min)

II. Burial depth, ft. —

III. Maximum Operating Pressure (MOP) ≤ 1,440

IV. Capacity 146 MMCF/D

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