

Texas Eastern
Transmission Corporation

5400 Westheimer Ct. 77056-5310 P.O. Box 1642 Houston, TX 77251-1642

Ron Monheiser, Manager Right of Way and Land Department

Dune 1/25/01

January 16, 2001

Mr. Don Howard Regional Supervisor Minerals Management Service Gulf of Mexico OCS Region 1201 Elmwood Park Boulevard New Orleans, LA 70123-2394 (504) 736-2547



Attention: Mr. Alex Alvarado

Your Re:

MS 5232

OCS-G-6551

Our Re:

Abandonment of Texas Eastern Transmission Corporation 8-inch Line 41-J

located in West Cameron Blocks 249, 250, 252, and 253 located in Federal

Waters, Gulf of Mexico, Offshore Louisiana, Line 41-J

Gentlemen:

Please reference Texas Eastern Transmission Corporation's (TETCO) letter of August 28, 2000 wherein we advised you of our intent to 1) abandon the captioned pipeline and 2) relinquish the right of way. Also reference your letter received September 14, 2000 wherein you request written notification of the abandonment completion. Please be advised that TETCO completed the abandonment on September 29, 2000 of the captioned pipeline in accordance with the terms expressed in our letter of August 28, 2001.

Should you have any question, please contact me at 713-627-5554.

Sincerely,

Ron Monheiser

In Reply Refer To: MS 5232

SEP 14 2000

Mr. Theopolis Holeman Texas Eastern Transmission Corporation 5400 Westheimer Court Houston, Texas 77056 D. MOORE 9/14/2000

Dear Mr. Holeman:

Pursuant to 30 CFR 250.1000(b), the relinquishment of the right-of-way grant associated with the following pipeline is hereby accepted effective August 30, 2000:

Pipeline Segment No.	Size (inches)	Length (feet)	Service	From	<u>To</u>
7000 (Right-of-Way OCS-G 65	8 5/8 551)	24,987	Gas	"A" Platform Block 253 West Cameron Area Lease OCS-G 3500	A 30-inch SSTI Block 250 West Cameron Area Segment No. 3509 Right-of-Way OCS-G 1950

Your letter dated August 28, 2000, requests approval to permanently abandon in place approximately 24,987 feet (4.73 miles) of 8 5/8-inch pipeline designated as Segment No. 7000, and to relinquish in its entirety, Right-of-Way Grant OCS-G 6551, associated therewith.

Pursuant to 30 CFR 250.104(b), approval is hereby granted to abandon this pipeline, and in accordance with 30 CFR 250.1009(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, Texas Eastern Transmission Corporation shall be required to remove it.

Texas Eastern Transmission Corporation shall cease transporting hydrocarbons through this pipeline immediately and complete the aforementioned abandonment operations within 60 days of the date of this letter. Additionally, Texas Eastern Transmission Corporation 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. 7000, ROW OCS-G 6551 (MS 5232) 1502-01 ROW OCS-G 6551 (Microfilm) (MS 5033) MS 5232 Carto

DMoore:amm:9/14/00:Texas Eastern.000





Theopolis Holeman

Senior Vice President Transmission and Engineering Texas Eastern Transmission Corporation Algonquin Gas Transmission Company East Tennessee Natural Gas Company

5400 Westheimer Court Houston, TX 77056-5310 (713) 627-5712

August 28, 2000

Mr. Don Howard Regional Supervisor Minerals Management Service Gulf of Mexico OCS Region 1201 Elmwood Park Boulevard New Orleans, Louisiana 70123-2394 (504) 736-2547

Attn: Mr. Alex Alvarado

AUG 3 0 2000

FIELD OPERATIONS
Region, New Orleans, 12.

SN 7000 (G06551)

RE: Abandonment of 8-inch Line 41-J located in West Cameron Blocks 249, 250,252 and 253 Located in Federal Waters, Gulf of Mexico, Offshore Louisiana

Dear Mr. Alvarado:

In accordance with the Outer Continental Shelf Lands Act, Section 5 (e), 43 U.S.C.S. 1331, et seq. (1999), and 30 CFR 250.1006 (1999), Texas Eastern Transmission Corporation (TETCO) requests abandonment of the referenced 8-inch pipeline 41-J (the Line). The Line is 4.73 miles long and extends from Pennzoil "A" Platform in West Cameron (WC) Block 253 to TETCO,s 30-inch Line 41 in WC 250. The Line is to be abandoned and left in place because there is no current operational need for the Line.

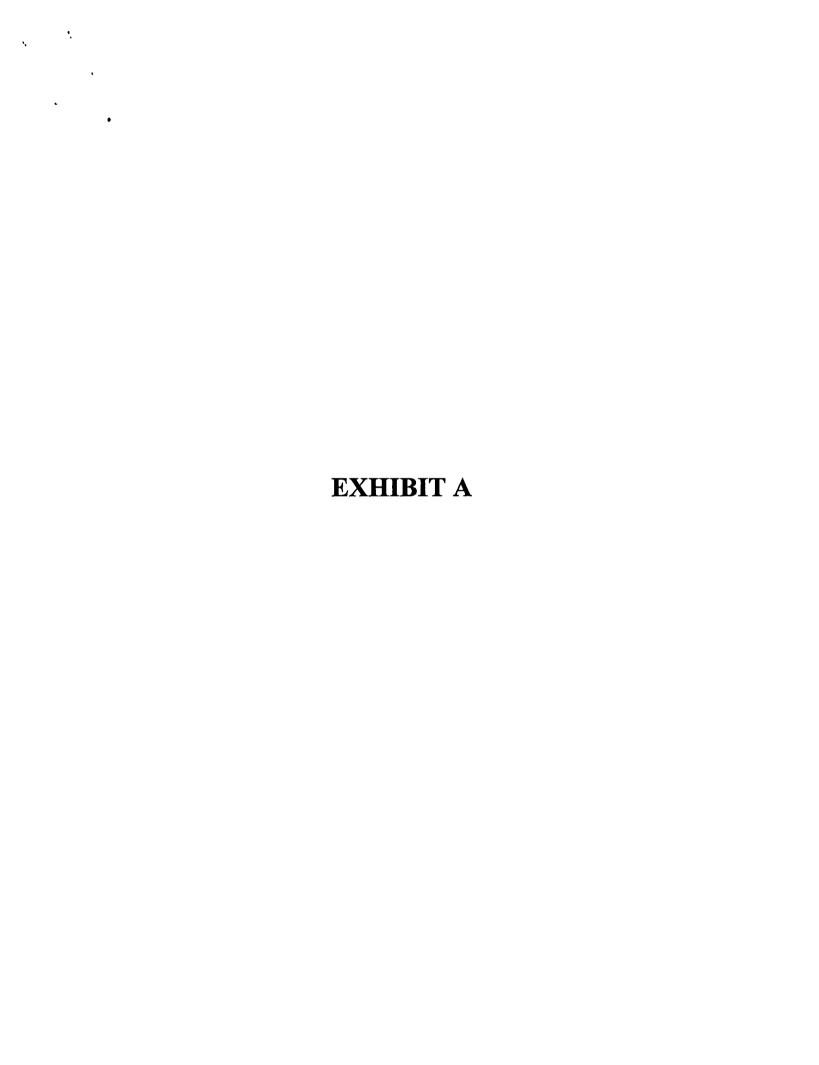
Pursuant to our phone conversation August 25, 2000, TETCO will relinquish all rights-of-way with abandonment of the Line.

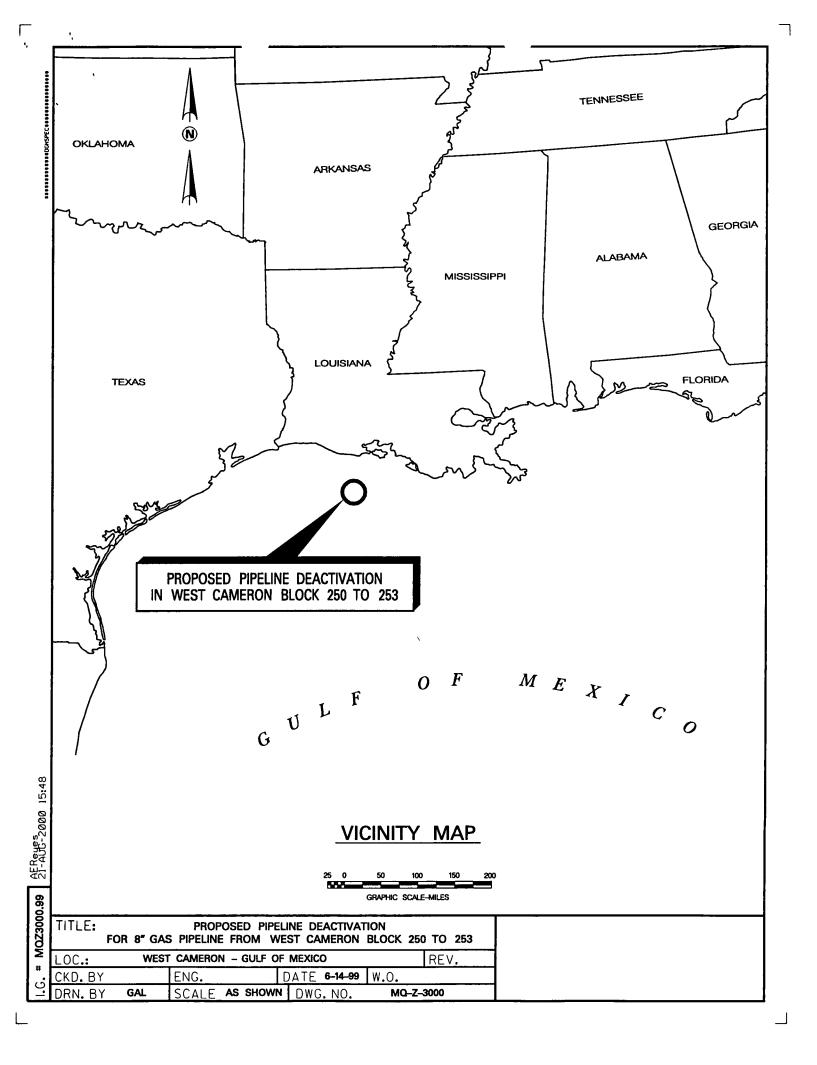
TETCO respectfully requests approval to abandon the Line by pigging, flushing and filling with inhibited sea water, leaving the Line in place and isolating the Line with a closed block valve or blind flange at each end. After abandonment, TETCO shall relinquish all respective rights-of-way.

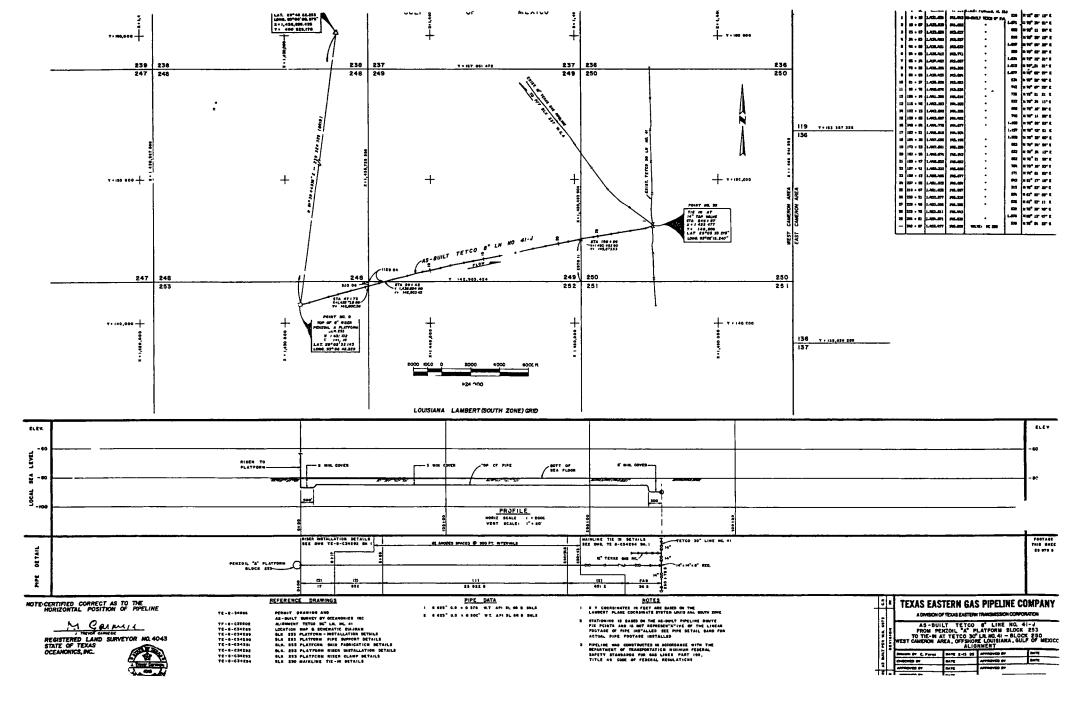
The location of the Line is indicated on the vicinity map and as-built drawings provided as Exhibit A. The general procedure for deactivating the 8-inch pipeline is provided as Exhibit B. Sub-sea tie-in details and platform details are provided as Exhibit C.

Questions or requests for additional information may be directed to Mark Reeder at (713) 627-5762.

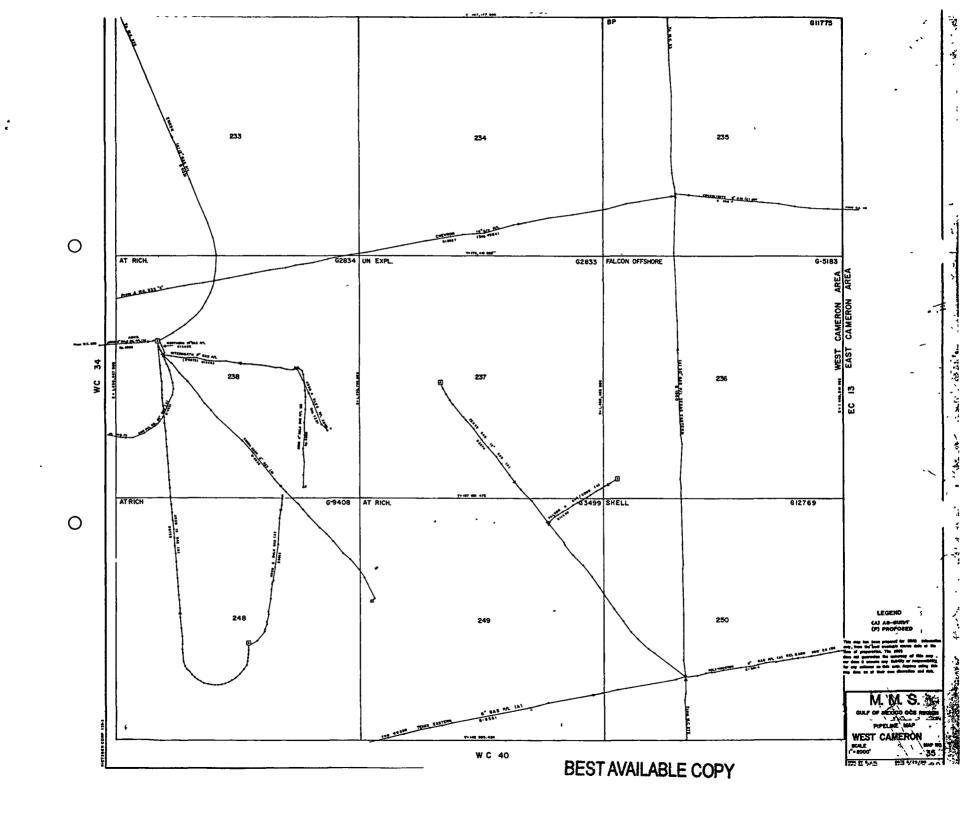
Sincerely,

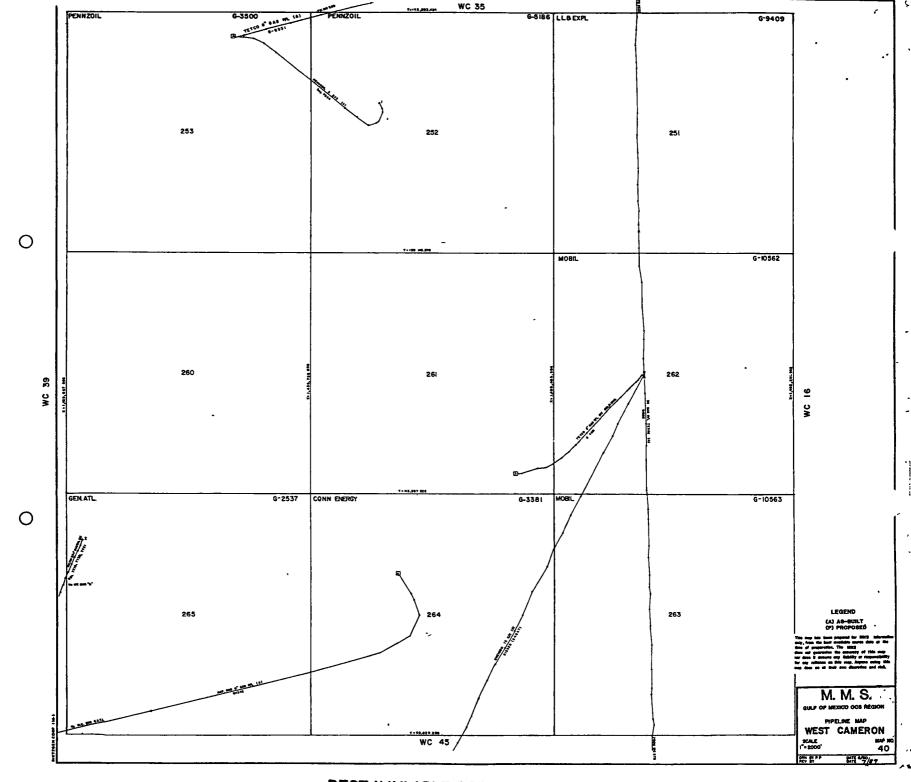




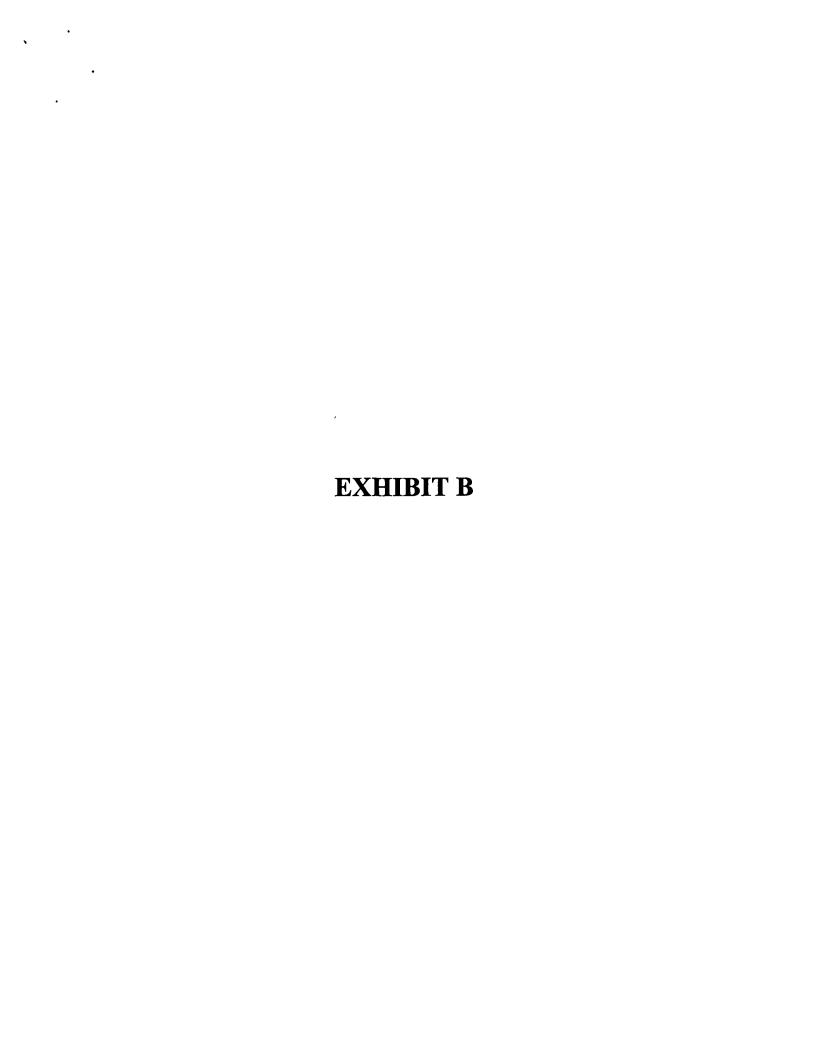


BEST AVAILABLE COPY





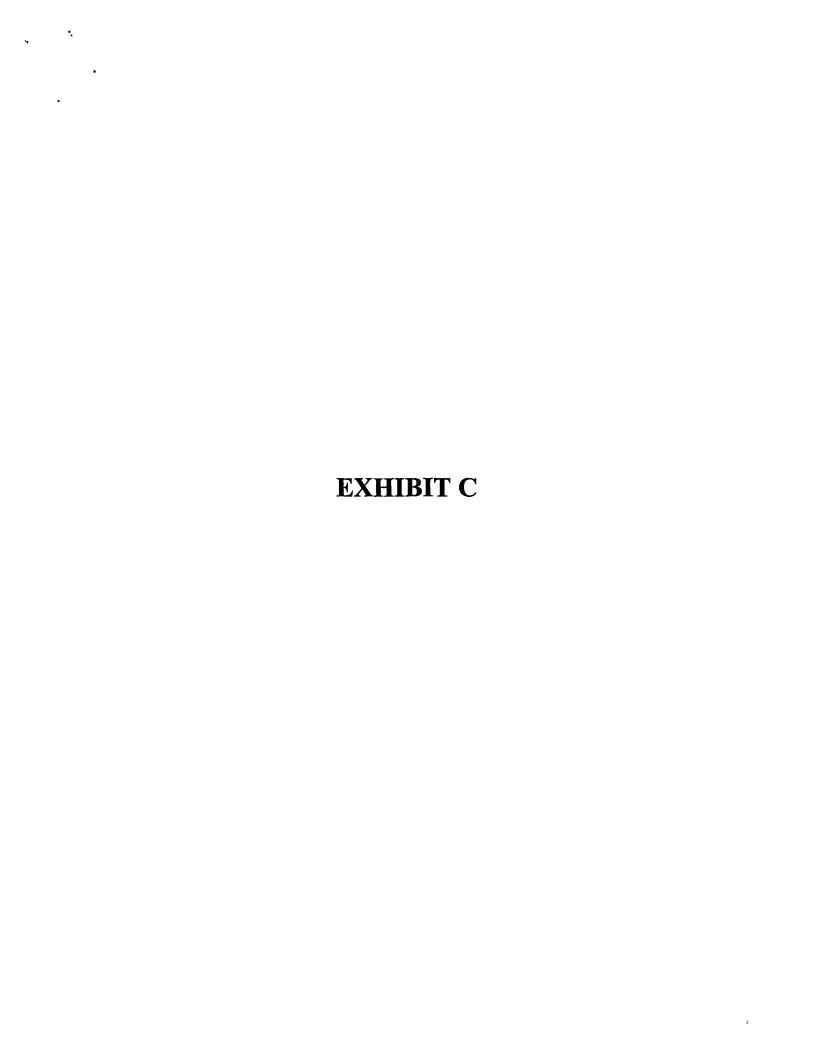
BEST AVAILABLE COPY

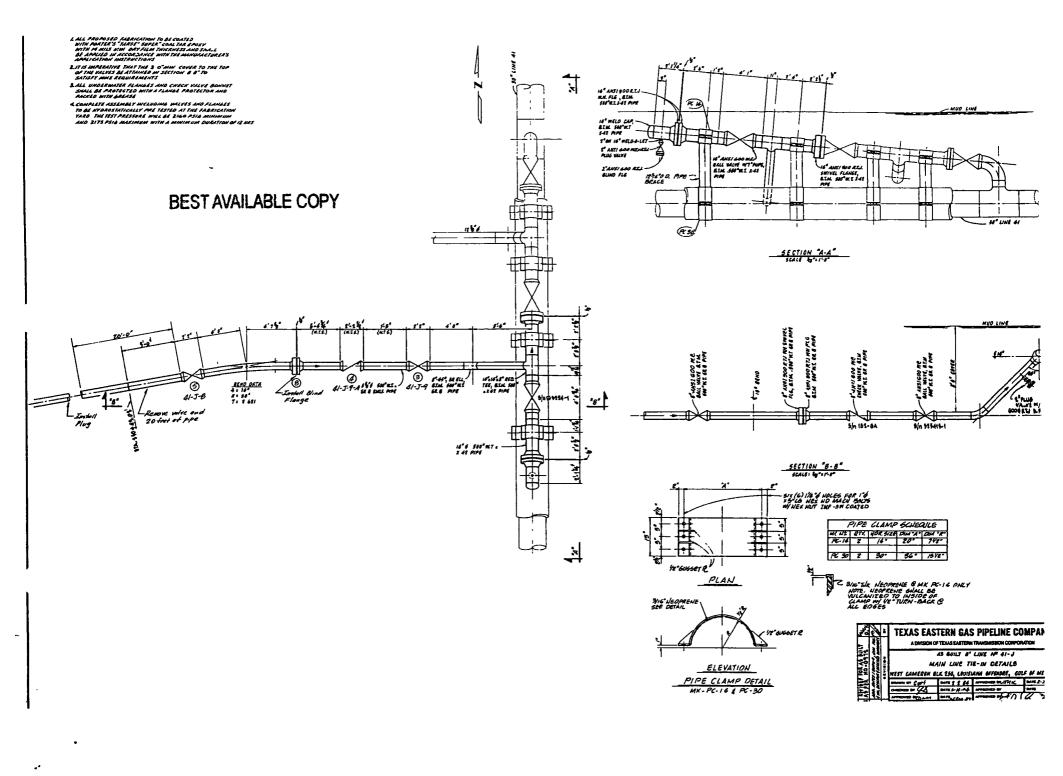


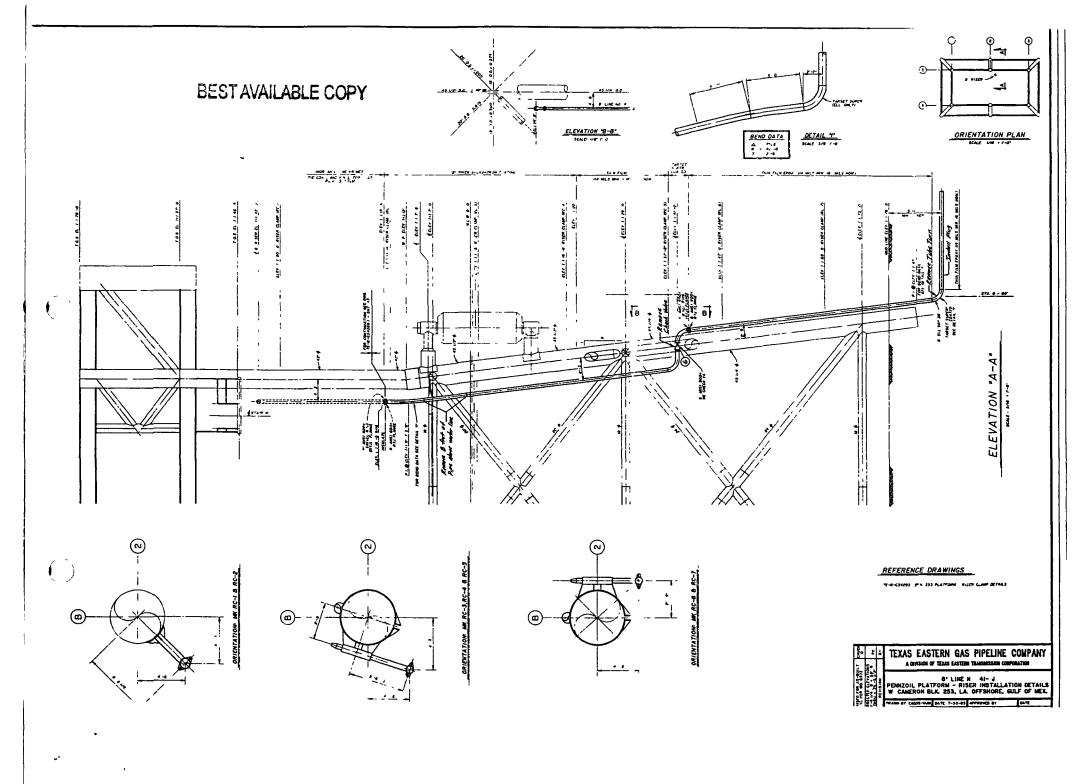
TEXAS EASTERN TRANSMISSION CORPORATION ABANDONMENT PROCEDURES FOR 8" LINE 41-J WEST CAMERON BLOCK 250 TO BLOCK 253

Scope of Work: Locate sub-sea tie-in at West Cameron Block 250. Run 2-8-inch spheres from West Cameron Block 253 to sub-sea tie-in at West Cameron Block 250. Remove 8-inch valve and 20 feet of 8-inch pipe from sub-sea tie-in and install 8-inch blind flange. Remove 8 feet of 8-inch pipe from riser, remove 8-inch check valve and remove tube turn at West Cameron Block 253.

- Locate and uncover sub-sea tie-in at West Cameron Block 250. Coordinates X= 1,455,477, Y= 146,806. It is estimated that the line pressure on the 30-inch line 41 is between 950 psi and 1000 psi.
- 2. Operate valve #3 (8-inch 41-J-9) close then open 1/4, close then open 1/4 valve #5 (8-inch 41-J-8), pin 8-inch check valve #4 (41-J-9-A) open. Valves are located at West Cameron Block 250.
- 3. Pin 8-inch check valve #6 open at West Cameron Block 253 Pennzoil Platform.
- 4. Rig pump equipment on West Cameron Block 253 Pennzoil Platform.
- 5. Check close 10-inch valve #41-J-2 and 2-inch valve #41-J-1. Once valves are checked close, install 2-8-inch spheres into sphere trap at West Cameron Block 253 Pennzoil Platform.
- 6. Check close valve #7 (8-inch 41-J-5) at West Cameron Block 253 Pennzoil Platform.
- 7. Launch and run spheres with seawater, 25,000 feet of 8-inch line approximately 63,345 gallons. Not to exceed 10% or 69,680 gallons total. Pumps will have gallon counters installed. Run time is approximately 4.5 hours, 200 gallons of water per minute.
- 8. When spheres reach valve #5 (8-inch 41-J-8) pressure will spike. Stop pumping at Pennzoil Platform West Cameron Block 253. Divers will close valve #3 (8-inch 41-J-9) at sub-sea tie-in located at West Cameron Block 250.
- 9. Bleed pressure from 8-inch line 41-J at West Cameron Block 253 Pennzoil Platform, using 2-inch valve #41-J-3.
- 10. Once 8-inch line 41-J is blown down, divers will unbolt flange #8 and remove valve #5 (8-inch 41-J-8) and 20 feet of 8-inch pipe upstream. Install plug in open end of 8-inch pipe at West Cameron Block 250.
- 11. Install 8-inch blind flange, insure flange bolts are torqued to the required setting. Once blind flange has been installed and bolts tightened open valve #3 (8-inch 41-J-9) and check blind for any leaks. Repair if necessary, if no leaks close valve #3 (8-inch 41-J-9) and unpin check valve #4 (8-inch 41-J-9-A) at West Cameron Block 250.
- 12. Jet down end of 8-inch line 41-J to a minimum of 3 feet deep and install sand bags around the line and sub-sea tie-in at West Cameron Block 250.
- 13. Divers will remove 8 feet of 8-inch line 41-J from the riser above the water level, remove 8-inch check valve #6 and remove the tube turn and install plug in the open end of the pipe. Jet line to a minimum of 3 feet deep and install sand bags at West Cameron Block 253 Pennzoil Platform.







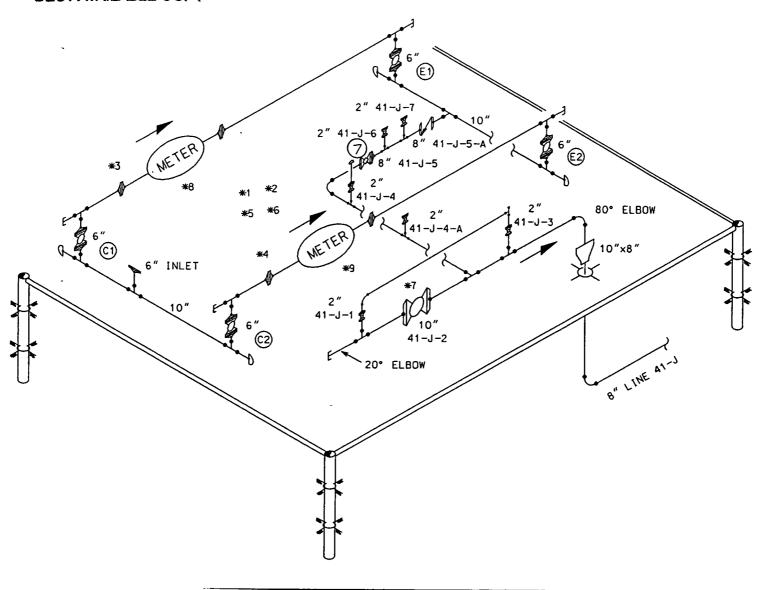
PENNZOIL PLATFORM, BLOCK 253

MAIN DECK

M&R 2310

8" LINE 41-J

BEST AVAILABLE COPY







A Duke Energy Company

Theopolis Holeman

Senior Vice President Transmission and Engineering

August 23, 2000

Mr. Don Howard Regional Supervisor Minerals Management Service Gulf of Mexico OCS Region 1201 Elmwood Park Boulevard New Orleans, Louisiana 70123-2394 (504) 736-2547

Attn: Mr Alex Alvarado

Natural Gas Company

WERALS MANAGERO Westheimer Court

RECEIVED 627/5612

AUG 2 4 2000

Texas Eastern

Algonquin Gas

East Tennessee

Transmission Corporation

Transmission Company

SN 7000 (G 06551)

RE: Deactivation of 8-inch Line 41-J located in West Cameron Blocks 249, 250,252 and 253 Located in Federal Waters, Gulf of Mexico, Offshore Louisiana

Dear Mr. Alvarado:

In accordance with the Outer Continental Shelf Lands Act, Section 5 (e), 43 U.S.C.S. 1331, et seq. (1999), and 30 CFR 250.1006 (1999), Texas Eastern Transmission Corporation (TETCO) requests temporary deactivation of the referenced 8-inch pipeline 41-J (the Line). The Line is 4.73 miles long and extends from Pennzoil "A" Platform in West Cameron (WC) Block 253 to TETCO,s 30-inch Line 41 in WC 250. The Line is to be deactivated and left in place because there is no current operational need for the Line.

TETCO respectfully requests approval to deactivate the Line by pigging, flushing and filling with inhibited sea water, leaving the Line in place and isolating the Line with a closed block valve or blind flange at each end. After deactivation, TETCO shall continue to maintain all respective rights-of-way.

The location of the Line is indicated on the vicinity map and as-built drawings provided as Exhibit A. The general procedure for deactivating the 8-inch pipeline is provided as Exhibit B. Sub-sea tie-in details and platform details are provided as Exhibit C.

Questions or requests for additional information may be directed to Mark Reeder at (713) 627-5762.

Sincerely,

conceller. Ree'd application dated 8128/2000 to absolute por ple & relinquish how

In Reply Refer To: RP-2-2

OCS-G 6551

DEC 3 1984

ACTION

Texas Eastern Transmission Corporation

Pipe Line Right-of-Way

Date of Permit: 5/14/84

Date of Permit. 3/14/64

Decision Requesting Proof of

Construction Dated:

Proof of Construction Received: 6/19/84

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 4.73 miles.

(Orig. Sgd.) John L. Rankin

John L. Rankin Regional Director

bcc: P/L OCS-G 6551 (LE)

P/L OCS-G 6551 (w/attachments) (RP-2-2)

ORD Reading File

OPS-4 (w/copy of location plat)

CWilliams: jj:11/28/84:Disk 8

An 7800

97/2/3/189

BEST AVAILABLE COPY

Williams)
11-29-84
feely 1/29/84
Stauffer 1/29/84
flaces 12-3

In Reply Refer To: RP-2-2

OCS-G 6551

DEC 3 1984

ACTION

Texas Eastern Transmission

Corporation

Pipe Line Right-of-Way

Date of Permit: 5/14/84

:

:

Decision Requesting Proof of

Construction Dated:

Proof of Construction Received: 6/19/84

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 4.73 miles.

(Orig. Sgd.) John L. Rankin

John L. Rankin Regional Director

bcc: P/L OCS-G 6551 (LE)

P/L OCS-G 6551 (w/attachments) (RP-2-2)

ORD Reading File

OPS-4 (w/copy of location plat)

CWilliams:jj:11/28/84:Disk 8



Transmission Corporation

JAMES G. MALVEN MANAGER RIGHTS OF WAY AND LAND DEPARTMENT

October 4, 1984



Mr. John L. Rankin, Regional Manager United States Department of the Interior Minerals Management Service P. O. Box 7944 Metairie, LA 70010

> Re: Your File-RP-2-2 OCS-G-6551

> > Our File-286-4-41-J AFE #6972, WC Block 253 to 250, Offshore Louisiana

Dear Mr. Rankin:

On May 14, 1984 your office issued Permit #OCS-G-6551 authorizing Texas Eastern Transmission Corporation to construct an 8" natural gas pipeline from Pennzoil Company's A Platform in Block 253, West Cameron Area to a subsea tie-in on our 30" line (OCS-G-1950) in Block 250, West Cameron Area, Offshore Louisiana.

In accordance with the regulations contained in 30 CFR 256.95 and appropriate guidelines, we are enclosing in triplicate asbuilt drawing #TE-8-34866 along with three copies of the Hydrostatic Test Report.

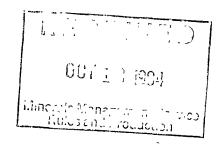
If you need any additional information, please feel free to contact this office.

Very truly yours,

Journe & Walney &

James G. Malven

KD:jt Enc.



HYDROSTATIC TEST REPORT LINE 41-J WEST CAMERON 253 - WEST CAMERON 250 AFE 01-6972

TABLE OF CONTENTS

- I. INTRODUCTION
- HYDROSTATIC TEST LETTER II.
- TEST REPORTS III.
 - A. MAINLINE TESTS
 - 1) MAINLINE TEST
 - 2) IN-PLACE TEST-PLATFORM PIPING AND METER SKID
 - В. PRE-TESTS
 - 1) PRE-TEST #1- RISER PIPE
 - 2) PRE-TEST #2-2R PLATFORM PIPE

 - 3) PRE-TEST #3- RISER-CHECK VALVE
 4) PRE-TEST #4, #4R & #4EXT- SUB-SEA TIE-IN
 - 5) PRE-TEST #5-5R METER SKID

TEXAS **○** EASTERN

INTEROFFICE CORRESPONDENCE

TO: J.L. Butler

CO/DIV: Engineering

FROM: D.R. Kuester

DATE:

July 27, 1984

SUBJECT:

Hydrostatic Test Report

Line 41-J -8"

West Cameron 253- West Cameron 250

AFE 01-6972

Please find transmitted herein the hydrostatic test report for 8" Line 41-J, from West Cameron 253 to West Cameron 250.

MAINLINE TEST

The mainline test consisted of approximately 25,080' of 8.625" O.D. x 0.375" W.T. Grade B pipe, plus fabrications from tie-in flange to riser flange (elevation +15'). The maximum test pressure was 2175 PSIG, (+0, -15). The mainline was accepted at the end of the test period which began at 2:58 a.m. on June 19, 1984 and ended at 6:00 p.m. on June 19, 1984. The test was conducted by Santa Fe Offshore Construction Co; their representative was G.B. Emert, Jr.. Texas Eastern's representative was Donald R. Kuester.

IN-PLACE TEST

An in-place test was conducted on the platform piping and meter skid. The maximum test pressure was 2185 PSIG, (+0, -25). This test section was accepted at the end of the test period which began at 9:35 p.m. on June 15, 1984 and ended at 10:00 a.m. on June 16, 1984. The test was conducted by Santa Fe; their representative was G.B. Emert, Jr.. Texas Eastern's representative was E.T. Jones.

PRE-TESTS

PRE-TEST #1

Pre-test #1 was test on the riser pipe consisting of 120' of 8.625" O.D. x 0.500" W.T. Grade B pipe. The maximum test pressure was 4000 PSIG, (+0, -50). The test section was accepted at the end of the test period which began at 8:10 p.m. on May 3, 1984 and ended at 8:20 a.m. on May 4, 1984. The test was conducted by Santa Fe; their representative was Clarence Abshire, Jr.. Texas Eastern's representative was Tommy Pluss.

PRE-TEST #2 and #2R

Pre-test #2 was a test on the platform piping fabrication in accordance with hydrostatic test letter dated April 6, 1984. The maximum test pressure was 2175 PSIG, (+0, -15). The test section was accepted at the end of the 12 hour test period which began at 4:35 p.m. on May 15, 1984 and ended at 4:40 a.m. on May 16, 1984. The test was conducted by Santa Fe; their representative was Clarence Abshire, Jr.. Texas Eastern's representative was Tommy Pluss.

Pre-test #2R was a repeat test of the platform piping in accordance with the hydrostatic test letter dated May 1, 1984. The maximum test pressure was 4000 PSIG, (+0, -50). The test section was accepted at the end of the 12 hour test period which began at 5:30 p.m. on May 18, 1984 and ended at 5:35 a.m. on May 19, 1984. The test was conducted by Santa Fe; their representative was Clarence Abshire, Jr.. Texas Eastern's representative was Malcolm Crane.

PRE-TEST #3

Pre-test #3 was a test of the riser pipe after Atwood-Morrell check valve was replaced by a Wheatley Check Valve. The maximum test pressure was 2185 PSIG, (+0, -25). The test was accepted at the end of the test period which began at 2:30 p.m. on May 26, 1984 and ended at 6:45 p.m. on May 26, 1984. The test was conducted by Santa Fe; their representative was C.J. Robin. Texas Eastern's representative was Clince Waquespack, Jr..

PRE-TEST #4, #4R, and #4EXT.

Pre-test #4 was a test of the 8" on 12" sub-sea tie-in fabrication which consisted of 12.750" O.D. x 0.500" W.T. X-42 and 8.625" O.D. x 0.500" W.T. Grade B pipe. The maximum test pressure was 2185 PSIG, (+0, -25). The test section was accepted at the end of the 12 hour test period which began at 10:00 p.m. on May 19, 1984 and ended at 11:05 a.m. on May 20, 1984. The test was conducted by Santa Fe; their representative was Clarence Abshire, Jr.. Texas Eastern's representative was Malcolm Crane.

Pre-test #4R was a test of the sub-sea tie-in after Atwood-Morrell check valve was replaced by a Wheatley check valve. The maximum test pressure was 2185 PSIG, (+0, -25). The test was accepted at the end of the test period which began at 1:30 a.m. on May 26, 1984 and ended at 1:35 p.m. on May 26, 1984. The test was conducted by Santa Fe; their representative was Paul D. Hebert. Texas Eastern's representative was Clince Waguespack, Jr..

Pre-test #4EXT. was a test of the sub-sea tie-in after an extension was added to the sub-sea tie-in fabrication. The maximum test pressure was 2185 PSIG, (+0, -25). The test was accepted at the end of the test period which began at 5:40 a.m. on June 22, 1984 and ended at 5:40 p.m. on June 22, 1984. The test was conducted by Santa Fe; their representative was James Phillips. Texas Eastern's representative was L.M. Calvert.

PRE-TEST #5 and #5R

Pre-test #5 was a test of the meter skid fabrication. The maximum test pressure was 2185 PSIG, (+0, -25). The test section was accepted at the end of the test period which began at 1:05 p.m. on May 25, 1984 and ended at 1:15 a.m on May 27, 1984. The test was conducted by Santa Fe; their representative was Paul Blanchard. Texas Eastern's representative was Malcolm Crane.

Pre-test #5R was a test of the 8" Wheatley Check Valve that replaced the Atwood-Morrell check valve. The maximum test pressure was 2185 PSIG, (+0, -25). The test section was accepted at the end of a 12 hour test period which began at 12:55 p.m. on May 31, 1984 and ended

PRE-TEST #5R cont.

at 1:00 a.m. on June 1, 1984. The test was conducted by Santa Fe; their representative was Paul Blanchard. Texas Eastern's representative was Malcolm Crane.

The test reports contain copies of deadweight pressure logs, pressure charts, temperature charts, and deadweight and recorder certifications.

D.R. Kuester

kf

attachments

TEXAS **EASTERN**

INTEROFFICE CORRESPONDENCE

TO:

J. L. Butler

CO/DIV: Gas Engineering

FROM:

J. M. Keiser

May 1, 1984 DATE:

SUBJECT. West Cameron 252/253

Hydrostatic Test Pressures & Procedures

AFE 6972

C/D File 20.2172

RECEIVED MAY 1 1984

J. L. BUTLER

The hydrostatic testing of the subject job shall be performed as indicated below:

Pre-Test

Test Pressure

Range

1. Riser & Platform Pipe

4000 psiq

+0, -50 psig

Pipe: 8.625" O.D. x .500" W.T., API-5L Gr. B

The above pipe is defined as pipe from the sea floor to the tie-in of the meter skid.

2. Meter Skid Piping:

2185 psig

+0, -25 psig

Mainline Tie-In Test (In Shop)

3. Tie-In Fabrication:

2185 psig

+0, -25 psig

Mainline Test

4. Meter Skid, Platform Piping, Riser & Mainline:

2175 psig

+0, -15 psig

Mainline Pipe: 8.625" O.D. x .500" W.T., API-5L Gr. B

8.625" O.D. x .375" W.T., API-5L Gr. B

Test numbers 1 and 2 shall be per Texas Eastern Specification 2401, Revision 3 dated 6-19-81 titled, "Hydrostatic Test Procedure", with the following exceptions:

- No stroke-pressure plot is required.
- 2. No 3 hour hold is required.

Test number 3 shall be per Texas Eastern Specification 2401, Revision 3 dated 6-19-81 titled, "Hydrostatic Test Procedure", with the following exception:

1. No stroke-pressure plot is required.

J. L. Butler May 1, 1984 Page 2

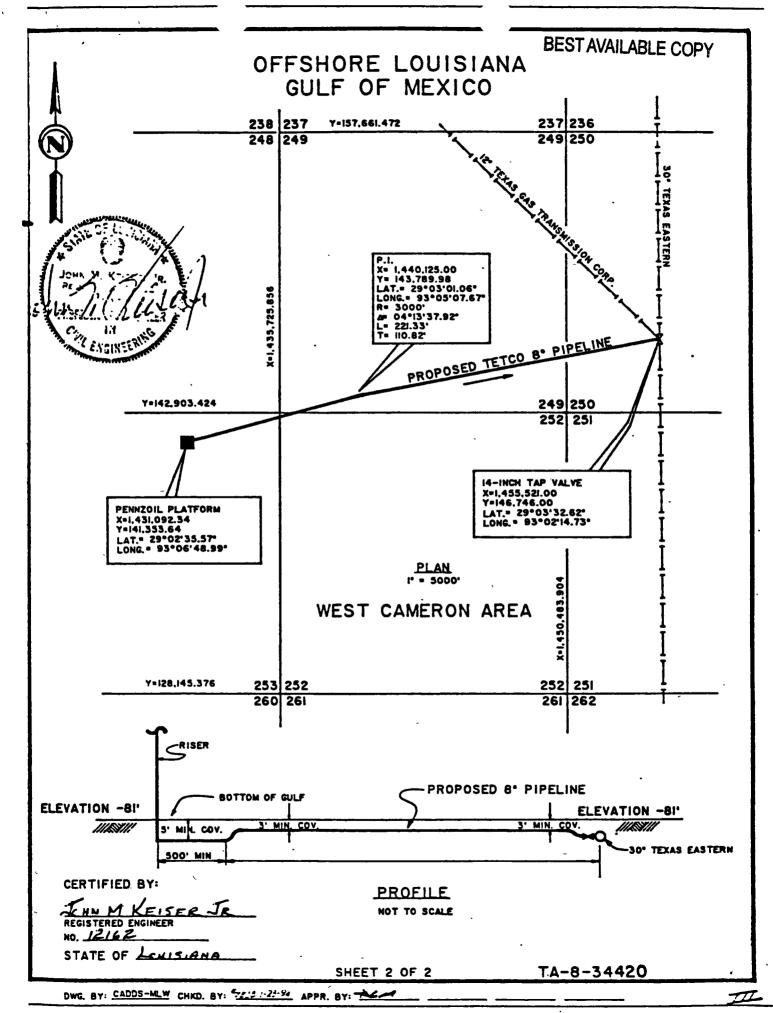
Test number 4 shall be in accordance with Texas Eastern Specification 2401, Revision 3 dated 6-19-81 titled, "Hydrostatic Test Procedure", with no exceptions.

If you have any questions, contact Mr. Doug Mims at extension 5817.

J. M. (Keise

DCM/ems

xc: E. V. Holzer



TEXAS **⊘** EASTERN

Specification Sheet

Transmission Corporation

Engineering Services Division

Job No	.:		
Date	6-1	9-81	

For: Hydrostatic Test Procedure Project:

By: SGB App: ≤ VA App: Yew Spec. No.: 2401 Rev: 3

All hydrostatic pretesting and mainline testing, on new installations, where practical, shall be conducted in accordance with the following test procedures, and in conjunction with test information which will be furnished for each job. Variations or modifications to this procedure will be made only with approval of the Chief Engineer.

- 1. Maximum and minimum test pressures will be based on (1) the mill histogram plot, (2) a pressure determined by components in the test section such as valves and fittings, or (3) a pressure for special tests such as a pretest. All test pressures are based on calculations using the outside diameter of the pipe and at the high elevation point in the test section. Maximum elevation difference in any one test section shall be 200 feet.
- 2. Before pressuring is begun, the Test Engineer shall insure that the test section has been securely isolated from other components and that proper precautions have been taken to insure that the test will be conducted in a safe and workmanlike manner.
- 3. During initial pressuring to a pressure equal to mill test, determine and set a pump stroke rate which will pressure the test section at a constant stroke rate without pump speed drop, change of pump speed, or changing gears during the pressuring operation. The pressure rise rate shall be determined by the Test Engineer, and, where practical, be less than 10 psig per minute. The final pump stroke rate and resulting pressure rise rate shall be determined during pressuring in the region of 100 psig below mill test or at 90% SMYS, if mill test was in excess of 90% SMYS.
- 4. When the pressurization of the test section has reached the pressure determined by mill test, stop and hold the pressure for 15 minutes. Then slowly reduce the pressure to 100 psig below the pressure and hold a tight line leak test. During this leak test, the Test Engineer shall insure that no leaks exist in the test section so that the test section is in order for preparing a stroke-pressure plot. The tight line leak test shall continue until all leaks have been stopped and no loss of pressure occurs for fifteen (15) consecutive minutes. All pressure readings shall be done with a dead weight gauge.

TEXA	\S	0
EAS 1	ΓΕΙ	RN

Transmission Corporation

Engineering Services Division

Job No). :	
Date:	6-19-81	

Hydrostatic Test Procedure

Project:

By: SGB App: App:

Spec. No.:

Specification Sheet

2401 Rev: 3

- 5. The starting test pressure for preparing the stroke-pressure plot is at the discretion of the Test Engineer, however it shall be at least 100 psig below the pressure determined by the mill test. The test section is to be pressured with the pump operated continuously at the stroke rate previously determined. It is most important that full attention be given to maintain a constant pump rate. Observation of a tachometer or counting strokes versus time and small throttle adjustments may be needed to achieve a constant The constant rate shall be maintained throughout preparation of the stroke-pressure plot.
- 6. A continuous plot shall be made of pump strokes versus pressure, beginning at the starting pressure and continuing to the ending pressure. The ending pressure shall be equal to the specified minimum test pressure or to the desired yield level whichever is greater. The desired yield level is defined as that point along the stroke pressure plot at which the number of strokes per pound of pressure rise is equal to twice the number of strokes per pound of pressure rise which was experienced prior to initial deviation, or to the specified maximum test pressure, whichever is smaller. Pump strokes versus pressure shall be indicated as a plot point at 10 psi intervals in whole multiples of 10. Stroke readings shall be indicated at each plot point. Time in hours, minutes, and seconds shall be indicated at the beginning and ending points as well as intermediate points at 50 psi intervals.
- 7. After the test pressure is reached, the time and pressure shall be recorded and these are the beginning time and pressure of the hold period. The minimum hold period shall be 12 hours. The pressure during the hold period shall be the maximum pressure of the test. For the first two hours of the hold period, the pressure shall be held between +0 and -2 psig of the maximum test pressure. For the remainder of the hold period, the pressure shall be held between +0 and -15 psig of the maximum test pressure. During the initial two hour period, the number of strokes to maintain maximum pressure after 10 minutes, 30 minutes, 60 minutes, and 120 minutes shall be Ambient temperatures shall be recorded hourly, beginning with initial pressuring and continuing for the duration of the hold period.

ŕ

TEXAS **EASTERN**

Transmission Corporation

Engineering Services Division

Job No.:				
Date:	6-	19	9-8	<u>81</u>

Project: <u>Hydrostatic Test Procedure</u> By: SGB App: App:

2401 Rev: 3 Spec. No.:

Specification Sheet

8. All data shall be recorded with the utmost of care. Pressures. temperature, stroke counts, time and all other data on the test section shall be clearly recorded, legible, and understandable. Each time a repressure operation is necessary, the time and pressure before and after repressure shall be recorded along with the number of strokes required to repressure. Should it become necessary to reduce the pressure of a test section during the hold period, the time and pressure shall be recorded both before and after the reduction of pressure. The volume of water removed shall be either measured or calculated and recorded.

- 9. The requirements for an acceptable pressure test shall be as follows:
 - The section has been maintained at the desired test pressure (+0, -15 psig) for a period of 12 hours. Should conditions require that a test be interrupted, it is required by Federal Regulations that:
 - An 8 hour continuous test is required for piping installed for gas service.
 - 2. A 4 hour continuous test is required for piping installed for liquid service which can be visually inspected.

An 8 hour continuous test is required for piping installed for liquid service which cannot be visually inspected.

- No pressure loss during the last 3 hours of the test. b.
- Pressure losses corrected after the 12 hour test period and no pressure loss for an additional 3 hours.
- Pressure loss rate which declines steadily after 12 hour test period which can be verified as within the calculable affect of ambient conditions, and approval obtained from the office of the Chief Engineer.
- 10. Before a piping section is permanently installed, it may be necessary to pre-test the piping before installation. The necessary test information will be furnished with each job.

_of _

TEXAS	0
EASTE	RN

Specification Sheet

Transmission Corporation

Engineering Services Division

Job No.:	
Date:	6-19-81

Hydrostatic Test Procedure Project: For:

2401 By: App: Spec. No,: Rev: 3

11. The Test Engineer shall note that the following special conditions may exist which may prevent a hydrostatic test to the desired yield level:

- Concrete coated pipe shall be tested to a maximum pressure of 102% SMYS plus 15 psig. For offshore inplace test, the piping shall be tested to a maximum pressure of 102% SMYS plus 15 psig taken at the water line.
- b. Hydrostatic tests for sections containing piping of two or more specifications shall be conducted to a maximum pressure as determined by piping of the lowest specification.
- Valves, fittings, and end-closures are at times included in c. a test section and may limit the calculated maximum allowable test pressure for the section to a lesser pressure.
- d. Station piping shall be tested to a minimum pressure of twice the design pressure for gas piping, and one and a half times the design pressure for liquid piping. The Test Engineer shall determine if valves and fittings have been special ordered so that they will not limit the test.
- Electric Resistance Welded (ERW) Pipe shall be tested to a . e. maximum pressure of 102% SMYS plus 15 psig, at the low elevation point.
- 12. In the event of a test failure/leak, the following procedure shall be followed:

The test engineer will report all leaks or failures to the Construction Supervisor at the site and the Project Superintendent in charge. The test engineer will also report by telephone, the leak or failure within one (1) working day to the Field Construction Operations (FCO) office in Houston. Technical data required for DOT Form F-7100.2 will be filled out by the test engineer and forwarded to the Project Superintendent.

TEST ENGINEER'S MAINLINE HYDROSTATIC TEST SECTION EVALUATION

General Information			
Job No. 6972 Test Section No. MAINLINE Len	gth 25,132	Miles 4.76	
De Specification 8.625 O.D. x 0.375" "	x Grade B	_•	
Job No. 6972 Test Section No. MAINLINE Lender Specification 8.625 O.D. x 0.375" " Time and Date on Test 2:58am 6/19/84 Test P. Time and Date off Test 6:00pm 6/19/84 Fin Initial Wather: Sky: Clear , Ambient Final Weather: Sky: Clear , Ambient Estimated Length of Exposed Pipe 15 Type of Soil: Clay - Loam - Rocky - Sandy - Significant Condition of Soil: Dry - Wet - Damp S	ressure 2	175 PSIG.	
Time and Date off Test 6:00pm 6/19/84 Fin	al Pressure	PSIG.	
Initial Wather: Sky: Clear , Ambient	Temp. 77	OF Rising - Fall	ing
Final Weather: Sky: Clear, Ambient	Temp. 81	^{-o} F Rising - Fall	ing
Estimated Length of Exposed Pipe 15	Feet @	Sections	
Type of Soil: Clay - Loam - Rocky - Sandy - S	hale - Other S	ea Water	•
Surface Condition of Soil: Dry - Wet - Damp S	ea Water		
Recent Rain: Yes - No - Approx. Amount: Trace	- Steady -	Showers.	
Specified Minimum Test Pressure at High Elevation	Point 2175	PSIG.	
	<u></u>		
Specific Information			
Test Elevation Spread: High Point 15'	Low PointSea	Level ' Pump	15' '
Test Elevation Spread: High Point _ 15' Pump to High Point Correction: 0	Feet 0	PSIG	
At Pump 2175 PSIG -	O.D. Stress	25,012	PSI ,
At Pump 2175 PSIG - At Low Point PSIG - At High Point 2175 PSIG - Fill Water Temp. Measured: Yes - No. If Yes, Ground Temp. Measured: Yes - No. If Yes, Pump Data: Gals./Strk. 0060 Strks. Test Data: Strks./PSIG 16.8 Gals./ Penent of Observed Leeks: Velve-Flange-Nipple-Oth	O.D. Stress		_ PSI
At High Point 2175 PSIG -	O.D. Stress	25,012	PSI
Fill Water Temp. Measured: Yes - No. If Yes,		$\circ_{\mathrm{F}_{ullet}}$	_
Ground Temp. Measured: Yes - No. If Yes,		$^{}\circ_{\mathrm{F}_{ullet}}$	
Pump Data: Gals./Strk0060 Strks.	/Min. 152.7	Est. Strks./Min.	
Test Data: Strks./PSIG 16.8 Gals./	PSIG 0.1008	Theoretical Gals	/PSIG
Report of Observed Leaks: Valve-Flange-Nipple-Oth	er NONE	•	**
Remarks on Observed Leakage:	-		
	W-1		•
Teak Stopped: Yes - No. Time ssure Loss or Gain During Last 3 hours of Test:	If No., Estimate	Rate	Gals./Hr.
essure Loss or Gain During Last 3 hours of Test:	Loss	Gain	PSIG.
,			
Calculations			
Minimum Uniform Pressure Loss Rate Experienced: (Leak Rate Equiva	lent)	_ PSIG/Hr.
			_
•			
Leak Rate Based on Test Data:			
PSIG/Hr. x Gals	./PSIG x 24 Hr.	- 42 Gals./BBL=	BBLS/I
		•	
Leak Rate Based on Theoretical Valves:			
Leak Coefficient "K":			
		•	
Pipe Specification "K" Valve, BBLS/PSIG - Mil For 30" x .375", .469", .450", etc., Use 0.0243,	.e		
For 30" x .375", .469", .450", etc., Use 0.0243,	_		
For 36" x .390", .469", .388", etc., Use 0.0376			
LR = PSIG/HR. x Mi Could this Rate be Detected by Walking the line?	les	"K" x 24 =	BBLS/Day
Could this Rate be Detected by Walking the line?	Yes - No.	, ,	_ , .
Remarks on Indicated Leakage, etc.			
			
Give Reason for Accepting of Extending Test			
Q	Pleuster		
17	T IIII	Test Eng	inger

^{* 10} drops per second for a dripping leak are about equal to 1-Gallon per Hour.

TEXAS (

Transmission Corporation

FIELD PRESSURE & TEST REPORT

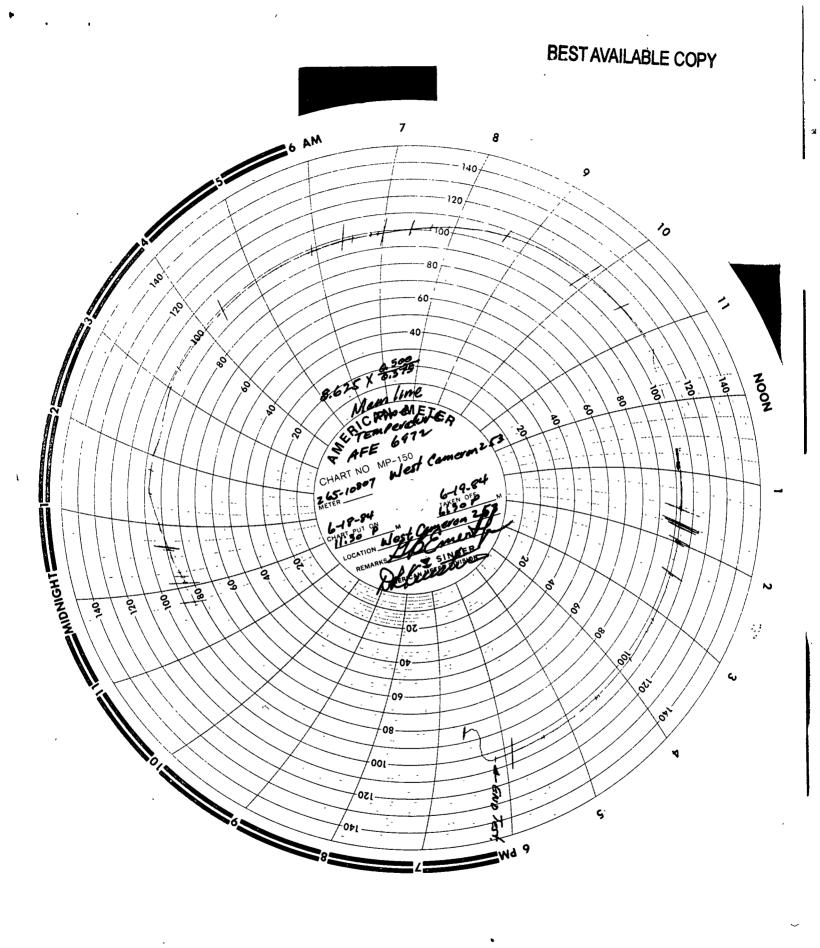
Line Descrip	tion: Line 4	IJ	Wes	t Camero	on 253	·	
Section Test	ed: From:	Riser Flan	nge	To	o: Sub-Sea	Tie-in	
Test Section	No.: Main	line		Length:	25132'		
Size of Pipe:	<u>8.625</u> O.	D. x <u>.375</u>	W.T. × Gr	ade <u>B</u>	Manufactur	er: Armco	
Pressure Uni	t No.:	Gallo	ons per Stroke	0.006	Fill Un	it No.:	
Pressure Uni	t Location: Pla	tform		Water S	Source:Gulf	Of Mexico	
Time and Da	ate Test Started:	AM 2:58-PM- AM	6/19/84	Test Pressu	ure (Maximum):_	2175	PSIG
Time and Da	nte Test Ended:_			Stroke-Pre	ssure Plot: Yes_	No	
Section Acce	epted X	Secti	on Leaking	NO	Section Rup	tured NO	
		DEADWEI	GHT RECOR	DED READ	ING (PSIG)		
Date:							
TIME AM	PRESSURE	STROKES	TEMP. Fl/Amb	TIME AM	PRESSURE	STROKES	TEMP. F1/Aml
345PM	Start Pum	ping		1230 PM	2165		102/78
	195 Bleed	Off Air	85	1300	2165		102778
003	Start pum	ping to 18	375	1330	2165		$\frac{101778}{100778}$
125	<u> 1875</u> <u> 1750</u>		97/77		2165		$\frac{102/78}{102/78}$
150				14 <u>30</u> 1500	2165 2164		$\frac{102/78}{102/79}$
225	1875 2175	N TEST	99/77	1600	2164		$\frac{10277}{103/78}$
) <u>258 </u>	2174		$\frac{39/7}{99/7}$ 7	1630	$\frac{2164}{2164}$		$\frac{103778}{103/78}$
0 <u>330 </u>	2173		98/77	1700	$\frac{2164}{2164}$		104/8
0 <u>430</u> 0430	2173	~	00/77	1730	2164		104/8
500	2172		98/77	1800	2164	OFF TEST	104/8
0530	2170		00/26				
0600	2169		98/76				
700	2168		98/76				
730	2167		100/76				
0800	2167		<u>103/</u> 76				
0 <u>830</u>	2167		<u> 105/77</u>				
0 <u>900</u>	2166		107/77				
0930	2166		<u>108/</u> 78				
1000	2166		<u>109/</u> 78				
1030	<u>2166</u>		<u> 110/</u> 78 <u> 110/</u> 78				
1 <u>100</u> 1 <u>130</u>	2166 2166		<u> 110/</u> 78 <u> 106/</u> 78				
1200	2165		<u>104/</u> 78		 		
		,			, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,		
Comments:		7 110					
TETCO Rep	presentative:	Ellus	to	Contractor R	epresentative: <u>G</u>	. B. Emerth	<u> </u>
Recorders L	ast Tested:			Deadweight	Serial No.:	12793	
Test Contra	ctor:						

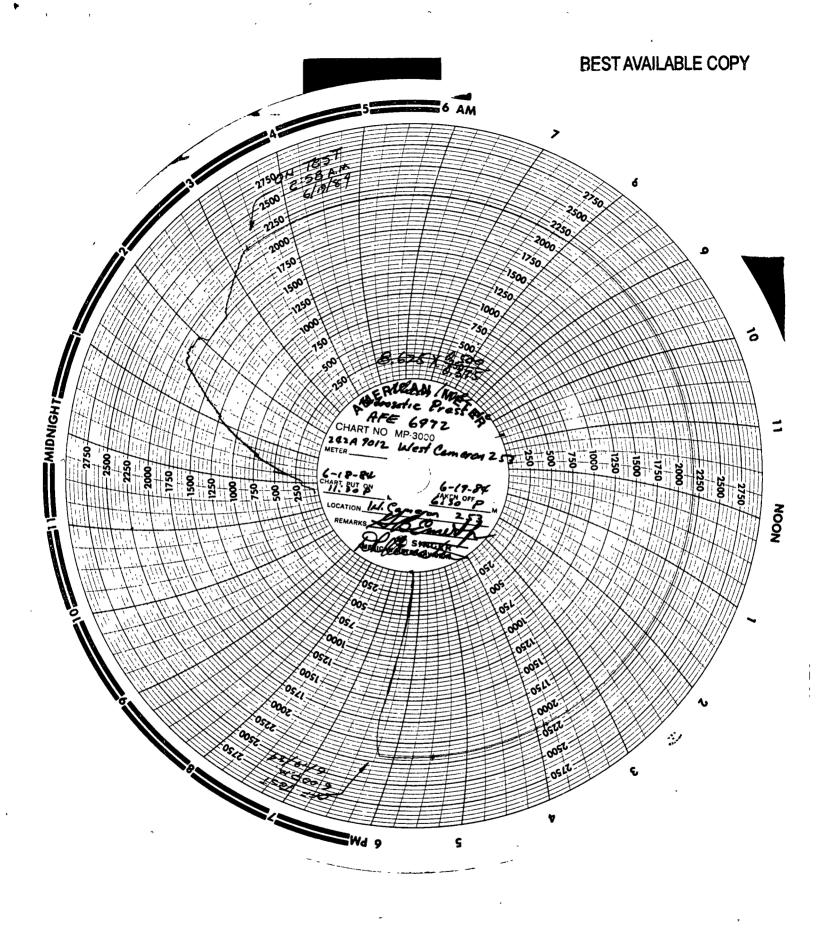
TEXAS (EASTERN

Transmission Corporation

FIELD PRESSURE & TEST REPORT

Section Tested: From: Riser Flange	Line Descri	ption: Line 4	11-J	WEST CAME	RON 253		• · · · · · · · · · · · · · · · · · · ·	
Test Section No.: Mainline	Section Tes	ted: From:	Riser Fla	nge	То	o: Sub-Sea	Tie-IN	
Size of Pipe: 8.625" O.D. x .375" W.T. x Grade B Manufacturer: Atmoo								
Pressure Unit No.: Gallons per Stroke: 0.006								
Time and Date Test Started: 2:58 PM 6/19/84								~
Time and Date Test Started: 2:58 PM 6/19/84	Pressure Un	it Location: Pla	atform		Water S	Source: Gulf o	of Mexico	,
Time and Date Test Ended: 6:00 PM 6/19/84 Stroke-Pressure Plot: Yes			AM 2:58 PM	6/19/84				
DEADWEIGHT RECORDED READING (PSIG)	Time and D	ate Test Ended:_			Stroke-Pre	ssure Plot: Yes _	No _	
Date: 6 19 84	Section Acc	cepted <u>YES</u>	Secti	on Lèaking	NO	Section Rup	tured NO	
TIME PRESSURE STROKES TEMP. STROKES AM PM 3642 2: 25 PM PM 2: 105 3790 148 0: 00 1875 0 2105 3790 148 1885 178 178 2115 3955 165 1895 333 155 26: 23 *2125 4122 167 1905 492 159 2135 4282 160 1915 669 177 2145 4445 163 5: 37 *1925 850 181 2155 4641 196 1945 1010 160 22:65 4800 159 1945 1170 160 32:15 *2175 4973 173 1955 1342 172 1965 1510 168 11: 00 *1975 1680 170 1985 1842 162 1995 1996 154 2005 2173 177 2015 2542 169 15: 58 *2025 2500 158 2035 2650 150 2045 2822 172 2055 2983 161 2065 3140 157 21: 07 *2075 3309 169 2085 3472 161 2095 2095 3642 170 Comments: TETCO Representative: Allow Contractor Representative: G.B. Emert, JR.			DEADWEI	GHT RECOR	DED READI	ING (PSIG)		
2:25 PM	Date:6	19 84	STROK	E PRESSUR	E - PLOT	DATA		
PM 3642 3790 148		PRESSURE	STROKES	TEMP. STROKES		PRESSURE	STROKES	JEMP STROKES
1885	2:25 PM					2105	3642	1.40
1895 333 155 26:23 *2125 4122 167 1905 492 159 2135 4282 160 1915 669 177 2145 4445 163 5:37 *1925 850 181 2155 4641 196 1935 1010 160 2165 4800 159 1945 1170 160 32:15 *2175 4973 173 1955 1342 172 1965 1510 168 11:00 *1975 1680 170 1985 1842 162 1995 1996 154 2005 2173 177 2015 2542 169 15:58 *2025 2500 158 2045 2822 172 2055 2983 161 2065 3140 157 21:07 *2075 3309 169 2085 3472 161 2095 3642 170 Comments: Contractor Representative: G.B. Emert, JR. Recorders Last Tested: Deadweight Serial No.: 12793	0:00			170				
1905 492 159 2135 4282 160					26:23			
1915 669 177 2145 4445 163								
1935							4445	
1945	5:37	*1925	850	181		2155	4641	
1955 1342 172		1935	1010					
1965		1945	1170		32:15	*2175	4973	173
11:00 *1975 1680 170 1985 1842 162 1995 1996 154 2005 2173 177 2015 2542 169 15:58 *2025 2500 158 2035 2650 150 2045 2822 172 2055 2983 161 2065 3140 157 21:07 *2075 3309 169 2085 3472 161 2095 3642 170 Comments: Contractor Representative: G.B. Emert, JR. Recorders Last Tested: Deadweight Serial No.: 12793		1955	1342	172				
1985 1842 162		1965	1510	168			-	
1995 1996 154	11:00	*1975						
2005 2173 177					<u> </u>			
2015 2542 169								
15:58								
2035 2650 150								
2045 2822 172	<u> 15:5</u> 8							
2055 2983 161								
2065 3140 157								
21:07								
2085 3472 161 2095 3642 170 Comments: TETCO Representative: Delication Contractor Representative: G.B. Emert, JR. Recorders Last Tested: Deadweight Serial No.: 12793								
Comments: TETCO Representative: Delication Contractor Representative: G.B. Emert, JR. Recorders Last Tested: Deadweight Serial No.: 12793	_21:07							
TETCO Representative: Contractor Representative: G.B. Emert, JR. Recorders Last Tested: Deadweight Serial No.: 12793								
Recorders Last Tested: Deadweight Serial No.:12793	Comments:							
Recorders Last Tested: Deadweight Serial No.:12793	TETCO Res	oresentative:	Hleus	tu .	ontractor Re	enresentative:	G.B. Emert	JR.
	·	•						

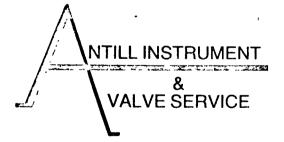




'CALIBRATION' CERTIFICATE

SF#1

MAKE	Chandler	SERIAL NUMBER 12793
PRESSURE RANGE_	50-3,000ps	CALIBRATED TO MANUFACTURER'S SPECIFICATIO
DATE OF CALIBRATION	ON May 25, 109	4 INSPECTOR A tull
This is to certify that t	this instrument has be	en inspected and tested against Pressure Standard_Chandler
Figure Figure 197	'N 18187	traceable to the National Bureau of Standards, traceability refere
•		P-7223



RTE. 1, BOX 430 — HOUMA, LA 703 HWY. 90 WEST TELEPHONE: BUS. 504/876-1605 # 10

CALIDRATION GERMAICATE

\;(E	<i>ئ</i> اد	rton	SERIAL NUMBER24 2A - 901 2
Tabbute rai	::G::	0-3,000psi	CALIBRATED TO MANUFACTURER'S SPECIF CATIONS
E OF CALID	RATION	May 31, 1984	INSPECTOR Johnny activi
		strument has been inspect	and tested against Pressure Standard Charling
'r dineering		2.21	ble to the National Bureau of Standards, traceability reference
		P-722	3

NTILL INSTRUMENT

VALVE SERVICE

RTE. 1, BOX 430 — HOUMA ILA 70360 HWY. 90 WEST TELEPHONE: BUS. 504/876-1695

CALIBRATION CERTIFICATE

F#9				
KE	Barton		SERIAL NUMBER	265-10807
MP-LATU	RE RANGE	0-150F	CALIBRATED TO MANUFAC	TURER'S SPECIFICATIONS
TE OF CA	LIBRATION	Tay 25, 1984	INSPECTOR A	Artill,).

NTILL INSTRUMENT
VALVE SERVICE

RTE. 1, BOX 430 — HOUMA, LA 70360 HWY. 90 WEST TELEPHONE: BUS. 504/876-1695

TEST ENGINEER'S MAINLINE HYDROSTATIC TEST SECTION EVALUATION

No me 1000 Tost Section No Mountille		13-1		1-1	
NO. 01-6772 Test Section No.	Length	25152	_ Miles	4.76	
No. 01-6972 Test Section No. Mamine Per Specification 8.625 OD." x Time and Date off Test 6:00 P 6-19-84 Tritial Methon: Sky: Cook Cook And Cook And Cook Cook Cook Cook Cook Cook Cook Coo	astolet x	Gr. B	 •		
inne and Date on Test 2:58 A 6-19-84	Test Pres	sure	2175	PSIG.	
Time and Date off Test 6:00 P 6-19-84	Final	Pressure		DC 1172	•
Initial Wather: Sky: Clear, Am Final Weather: Sky: Clear, Am	nbient Ten	m. <u>77</u>	—o-· -	Rising - Fall	ing.
Final Weather: Sky: <u>Clear</u> , An	nbient Ten	m. <u>81</u>	F	Rising - Fall	ing.
Estimated Length of Exposed Pipe Type of Soil: Glay - Leam - Recky - Sand	15	Feet @		Sections	
Type of Soil: Glay - Leam - Recky - Sand	ly - Shal	e - Other _	sea	Water	.•
Surface Condition of Soil: Dry - Wet -					
Recent Rain: Yes - NO - Approx. Amount:					
Specified Minimum Test Pressure at High Elev	vation Poi	.nt	2175	PSIG.	
0 101 7 0 22 11 2					
Specific Information Test Elevation Spread: High Point Pump to High Point Correction:		· are Dadus G	a laca	/ 1 Dames	15
Test Elevation Spread: High Point		TOM BOTUC TE	2 1 2021	Parc	
Maximum Pressures Reached to Give Desired Te	ree			raid	
MAXIMUM Pressures Reached to Give Desired 16	ESU: Doto () D Ctmone	2.	50/2	PSI
At Low Point	ralu - (D.D. Stress _		,	_PSI _PSI
At Pump At Low Point At High Point At High Point At High Point At High Point	EDIG - (D.D. Stress _		F0/2	PSI PSI
Fill Water Temp Massured: Ves - (NO) It	tora - (D.D. Buress	<u> </u>	0 _E	_ _{L91}
Cround Town Managered. You Wood To	f Voc			 O	
Fill Water Temp. Measured: Yes - No If Ground Temp. Measured: Yes - No If Pump Data: Gals./Strk. Test Data: Strks./PSIG Penent of Observed Leeks: Valve Flance Nine	$\frac{1}{2}$	n 1533	Po+	_ Gtake /Min	
Togt Data: Ctrks /DCTC	Cole /DC1	rc	 od⊞	oretical Gals	7pg rc
Report of Observed Leaks: Valve-Flange-Nipp	nle_Other	A/		orecical Gals	7 F510
Remarks on Observed Leakage:	pre-outer		ME	·•	
	<u></u> -				
Ieak Stopped: Yes - No. Time ssure Loss or Gain During Last 3 hours of	Τf	No. Estimat	e Rate		Gals./Hr.*
ssure Loss or Gain During Last 3 hours of	f Test: 1	oss o	Gain	0	PSIG.
					-
Calculations					
Minimum Uniform Pressure Loss Rate Experience	ced: (Lea	ak Rate Equiv	alent) _		_ PSIG/Hr.
Minimum Uniform Pressure Loss Rate Experience	ced: (Lea	ak Rate Equiv	alent) _		_ PSIG/Hr.
	ced: (Lea	ak Rate Equiv	alent) _	······································	_ PSIG/Hr.
Leak Rate Based on Test Data:					
Leak Rate Based on Test Data: PSIG/Hr. x					
Leak Rate Based on Test Data: PSIG/Hr. x Leak Rate Based on Theoretical Valves:			÷ 42	Gals./BBL=	BBLS/D
Leak Rate Based on Test Data: PSIG/Hr. x			÷ 42	Gals./BBL=	BBLS/D
Leak Rate Based on Test Data: PSIG/Hr. x Leak Rate Based on Theoretical Valves: Leak Coefficient "K":	Gals./I		÷ 42		BBLS/D
Leak Rate Based on Test Data: PSIG/Hr. x Leak Rate Based on Theoretical Valves: Leak Coefficient "K":	Gals./I		÷ 42	Gals./BBL=	BBLS/D
Leak Rate Based on Test Data: PSIG/Hr. x Leak Rate Based on Theoretical Valves: Leak Coefficient "K": Pipe Specification For 30" x .375", .469", "K" Valve, BBIS/PSIG	Gals./I G - Mile 0243,		÷ 42	Gals./BBL=	BBLS/D
Leak Rate Based on Test Data: PSIG/Hr. x Leak Rate Based on Theoretical Valves: Leak Coefficient "K":	Gals./I G - Mile 0243,		÷ 42	Gals./BBL=	BBLS/D
Leak Rate Based on Test Data: PSIG/Hr. x Leak Rate Based on Theoretical Valves: Leak Coefficient "K": Pipe Specification For 30" x .375", .469", .450", etc., Use 0.00 For 36" x .390", .469", .388", etc., Use 0.00	Gals./I <u>G - Mile</u> 0243, 0376	PSIG x 24 Hr.	÷ 42 BESTA	Gals./BBL=	BBI S /D
Leak Rate Based on Test Data: PSIG/Hr. x Leak Rate Based on Theoretical Valves: Leak Coefficient "K": Pipe Specification For 30" x .375", .469", .450", etc., Use 0.00 For 36" x .390", .469", .388", etc., Use 0.00	Gals./I <u>G - Mile</u> 0243, 0376	PSIG x 24 Hr.	÷ 42 BESTA	Gals./BBL=	BBI S /D
Leak Rate Based on Test Data: PSIG/Hr. x Leak Rate Based on Theoretical Valves: Leak Coefficient "K": Pipe Specification For 30" x .375", .469", .450", etc., Use 0.0 For 36" x .390", .469", .388", etc., Use 0.0 IR = PSIG/HR. x Could this Rate be Detected by Walking the	Gals./I G - Mile 0243, 0376 Miles line? Yes	PSIG x 24 Hr.	÷ 42 BESTA "K" x	Gals./BBI= VAILABLE COF	BBIS/D BBIS/Day
Leak Rate Based on Test Data: PSIG/Hr. x Leak Rate Based on Theoretical Valves: Leak Coefficient "K": Pipe Specification For 30" x .375", .469", .450", etc., Use 0.00 For 36" x .390", .469", .388", etc., Use 0.00	Gals./I G - Mile 0243, 0376 Miles line? Yes	PSIG x 24 Hr.	÷ 42 BESTA "K" x	Gals./BBI= VAILABLE COF	BBIS/D BBIS/Day
Leak Rate Based on Test Data: PSIG/Hr. x Leak Rate Based on Theoretical Valves: Leak Coefficient "K": Pipe Specification For 30" x .375", .469", .450", etc., Use 0.0 For 36" x .390", .469", .388", etc., Use 0.0 IR = PSIG/HR. x Could this Rate be Detected by Walking the	Gals./I G - Mile 0243, 0376 Miles line? Yes	PSIG x 24 Hr.	÷ 42 BESTA "K" x	Gals./BBI= VAILABLE COF	BBIS/D BBIS/Day
Leak Rate Based on Test Data: PSIG/Hr. x Leak Rate Based on Theoretical Valves: Leak Coefficient "K": Pipe Specification "K" Valve, BBLS/PSIG For 30" x .375", .469", .450", etc., Use 0.6 For 36" x .390", .469", .388", etc., Use 0.6 LR = PSIG/HR. x Could this Rate be Detected by Walking the Remarks on Indicated Leakage, etc.	G - Mile 0243, 0376 Miles line? Yes	PSIG x 24 Hr.	÷ 42 BESTA "K" x	Gals./BBI= VAILABLE COF	BBIS/D BBIS/Day
Leak Rate Based on Test Data: PSIG/Hr. x Leak Rate Based on Theoretical Valves: Leak Coefficient "K": Pipe Specification For 30" x .375", .469", .450", etc., Use 0.0 For 36" x .390", .469", .388", etc., Use 0.0 IR = PSIG/HR. x Could this Rate be Detected by Walking the	G - Mile 0243, 0376 Miles line? Yes	PSIG x 24 Hr.	÷ 42 BESTA "K" x	Gals./BBI= VAILABLE COF	BBIS/D BBIS/Day
Leak Rate Based on Test Data: PSIG/Hr. x Leak Rate Based on Theoretical Valves: Leak Coefficient "K": Pipe Specification "K" Valve, BBIS/PSIG For 30" x .375", .469", .450", etc., Use 0.0 For 36" x .390", .469", .388", etc., Use 0.0 LR = PSIG/HR. x Could this Rate be Detected by Walking the Remarks on Indicated Leakage, etc. Give Reason for Accepting of Extending Test	G - Mile 0243, 0376 Miles line? Yes	PSIG x 24 Hr.	÷ 42 BESTA "K" x	Gals./BBI= VAILABLE COF	BBIS/D BBIS/Day
Leak Rate Based on Test Data: PSIG/Hr. x Leak Rate Based on Theoretical Valves: Leak Coefficient "K": Pipe Specification "K" Valve, BBLS/PSIG For 30" x .375", .469", .450", etc., Use 0.6 For 36" x .390", .469", .388", etc., Use 0.6 LR = PSIG/HR. x Could this Rate be Detected by Walking the Remarks on Indicated Leakage, etc.	G - Mile 0243, 0376 Miles line? Yes	PSIG x 24 Hr.	÷ 42 BESTA "K" x	Gals./BBI= VAILABLE COF	BBIS/D BBIS/Day
Leak Rate Based on Test Data: PSIG/Hr. x Leak Rate Based on Theoretical Valves: Leak Coefficient "K": Pipe Specification "K" Valve, BBIS/PSIG For 30" x .375", .469", .450", etc., Use 0.0 For 36" x .390", .469", .388", etc., Use 0.0 LR = PSIG/HR. x Could this Rate be Detected by Walking the Remarks on Indicated Leakage, etc. Give Reason for Accepting of Extending Test	Gals./I GMile 0243, 0376 Miles line? Yes	PSIG x 24 Hr.	÷ 42 BESTA "K" x	Gals./BBI= VAILABLE COF	BBIS/D BBIS/Day

^{* 10} drops per second for a dripping leak are about equal to 1-Gallon per Hour.

TEXAS **○** EASTERN

Transmission Corporation

Line Description:	ne 41	<u>J</u>	W. C	ameron	253	-
Section Tested: From:	Riser Fla	ange	Т	o: Subsea	Tie-in	
Test Section No.: Ma	inline		Length	:25/3	2'	
Size of Pipe: 8,625	O.D. x .375	W.T. x Gr	ade <u> </u>	Manufactur	er: Arme	20
Pressure Unit No.:	Gall	ons per Stroke	0.006	Fill Un	it No.:	
Pressure Unit Location:	Platform		Water	Source: Gu /4	r of Me	KICO
Time and Date Test Started	1: 2:58 AM		Test Press	ure (Maximum):_	2175	PSIG
Time and Date Test Ended:			Stroke-Pre	essure Plot: Yes _	No	
Section Accepted	Sect	ion Leaking	No	Section Rup	tured No	
Date: 6 19 84	DEADWEI Stroke	GHT RECORD	re Plo	ing (psig) + Data B	EST AVAILABL	E COPY
TIME PRESSURE	STROKES	TEMP.	TIME AM	PRESSURE	STROKES	TEMP.
15 PM O(60) 1875 i885 i895 j905 j915 S:31 * 1925 1945 1945 1955 1965 1975 1985 1995 2005 2015 15:58 * 2025 2045 2065 2065	178 333 492 669 850 10 60 1170 1342 1510 1680 1842 1996 2173 2342 2500 2650 2822 2983 3140 3509	158 159 157 171 181 160 172 168 170 162 154 177 169 158 150 171 161 157		2105 2115 * 2125 2135 2145 2155 2165 * 2175	3642 3190 3955 4122 4282 4445 4641 4800 4973	Δ Strokes 148 165 167 160 163 196 159 173
2085 2095 2095	3472 3642	161				
	9011 =	<i></i>			LIKO	.1
TETCO Representative:	Kleur			epresentative:	XIVEM	wh
Recorders Last Tested:	 	" nstr	Deadweight <i>OCY OU</i>	: Serial No.:	. 175	

A STATE OF THE STA	
12	

Project:	West	Comeron	253	
Extent of	Test: Fin	om	ಇಂ	
Pipe Spec	ifications:	O.D. x _	W.T.; Grade	
iength of	Line Tested			
	**************************************		BES	ST AVAILABLE COPY
• .				
No.	Time	Pressure	. Te Fluid	mperature Ambi.er

1. 2.	12:30	2165	1020	78°
3.	13:00	H 45	1010	78°
4.	14:00	2/65	102	78"
5. 6.	14,30	2/65	1030	78
ΰ.	15:00	7/64	102	790
7. 8.	1660	12164	1030	.180
9.	1630	2164	103	1980
9.	1700	2164	104	80-
10. 11.	130	2164	104.	81
12.	1800	2164	704	
13.				
14.				
15.				
16.				
17. 18.			<u> </u>	
9.	·	<u> </u>	1	
20.				
				
22.	······································	<u> </u>		
23.				
24.		·	1	
25.			!	
lest Start	ed: Time 161	30 PM	12 te 6-	-18-84
icmoù ies!	eted: Time 6%	30 PM		-19-84
, , , , , , , , , , , , , , , , , , ,	•			
esting Eq				
eadweight	Tester: Make (ChArdzeR	Serial No. /2	-793
	ecorder: Make_		Serial No. 24	
	e Recorder: Make		Serial No. 26	
	1111	, 0	•	
g behroos	1: Albert	with	- · .	
nspector:	IK Rue	the	, ·	• • •
itnesses:	1	•		
_				•
•		,	,	

	of Test:	From	To	
	ecifications:		W.T.; Grade	
		· · · · ·	W. 1., Olado	
ength c	of Line Tested	<u> </u>		
	, 		BEST	VAILABLE COP
,,	•		•	
. ර	Time	Pressure	. Temo Fluid	erature Ambi
				73.071
1. 2.	23/45	START PLMP, M		- ₁
3.	100:03	195 BLOOD OFF AIR	95 to 1875	1
4.	101,25	1875	47	77
5.	01.30	1750	99	77
6.	02125	1875		
7.	102:58	2175	99	1. 77
8.	63.30	3174	ब वु	<u> </u>
9 .	24:00	3173	750	1 22.
0. i.	104/30	1 73	98	1-1-1-
<u>.</u>	105,00	2/72	98	1 . 760
3.	06:00	2170	200	100
4.	06,30	2169	9 30	760
5.	02:00	263	980,	760
б .	01:30	7164	100	160
7.	08:00	2167	1030	760
ŝ.	109:30	F1 67	105°	170
9.	09:00	2166	1070	770
O.	09:30	2166	108	1 780
4. •	10:08	21 66	109	780
2.	10,30	al lok	1100	<u> </u>
3. 4.	11 30	71 66	106	13
5.	12:00	1 21 65	104	18
	15100			. , , , , , , , , , , , , , , , , , , ,
est Star	ted: Time	11:30 PM	Date 6-	18-84
				in all
ಆಕ ರಿಗಾರಿ	oleted: Time	6:30 PM	Date 6-1	7-87
	•			
ar indua a 19		,		
estina E	quipment:	. 4 .		
		$\alpha / \gamma = 1$	/ 2	702
	t Master: Mak	ca ChANdleA	Serial No. /	
eadweigh	t Tester: Mak		Serial No. /2	/
eadweigh				•
eadweigh ressure	Recorder: Mal	Ke BANTOF	Serial No. 242	A-9012
eadweigh cessure	Recorder: Mal			A-9012
eadweigh cessure	Recorder: Mal	Ke BANTOF	Serial No. 242	A-9012
eadweigh cessure emperatu	Recorder: Makere Recorder: N	Re BARTON	Serial No. 242	A-9012
eadweigh cessure emperatu	Recorder: Makere Recorder: N	Ke BANTOF	Serial No. 242	A-9012
eadweigh ressure emperatu	Recorder: Makere Recorder: N	Re BARTON	Serial No. 242	A-9012
eadweigh ressure	Recorder: Makere Recorder: N	Re BARTON	Serial No. 242	A-9012
eadweigh ressure emperatu ecorded nspector	Recorder: Makere Recorder: No. Alberta By: Alberta By: DCC.	Re BARTON	Serial No. 242	A-9012
eadweigh ressure emperatu eoorded	Recorder: Makere Recorder: No. Alberta By: Alberta By: DCC.	Re BARTON	Serial No. 242	A-9012

PRE-TEST REPORT

LINE NAME: 41-J In-Place Tes	t- Platform Piping & Meter Skid
JOB NO:	WORK ORDER NO:AFE-6972
LOCATION OF TEST: Pennzoil Plat	form- West Cameron 253
LENGTH: O.D.:	WALL THICKNESS:
PRE-TEST NO.:	SECTION PLOTTED: NO
TIME TEST STARTED: 21:35	DATE TEST STARTED: 6/15/84
TIME ACCEPTED: 10:00 a.m.	DATE ACCEPTED: 6/16/84
MAXIMUM PRESSURE: 2185	MINIMUM PRESSURE: 2160
SPEC. MIN. YIELD:	MANUFACTURER:
MAXIMUM O.D. STRESS: 35,000	_
DEAD WEIGHTS: 14034	TEST ENGINEER: E.T. Jones DRIC
REMARKS:	
	•



Transmission Corporation

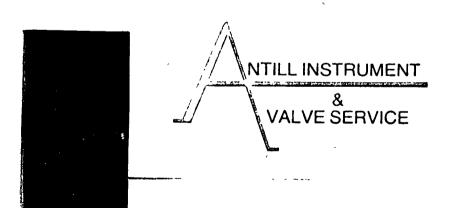
Line Description: Platio	cm Piping and	Meter	Skid			
Section Tested: From: Pe	ennzoil Platf	orm	Т	o: Riser	Flange	
Test Section No.:		····	Length	l:		
Size of Pipe: 8").D. x <u>.432</u>	W.T. x G	rade B	Manufacture	r:	
Pressure Unit No.:	Gallons	per Stroke	e:	Fill Unit	: No.:	
Pressure Unit Location: Pe	ennzoil Platf	orm	Water	Source. Pennzo	il Platform	n
	_AM					
Time and Date Test Started	AM	13/64	. Test Press	ure (Maximum):		PSIG
Time and Date Test Ended:	10:00 PM 6/	16/84	Stroke-Pro	essure Plot: Yes _	No	X
Section Accepted	YES Section	Leaking	NO	Section Rupt	ured <u>NO</u>	
	DEADWEIGH'	T RECOR	DED READ	ING (PSIG)		
Date: 6 16 84				•		
TIME PRESSURE	STROKES	ТЕМР.	TIME	PRESSURE	STROKES	TEMP.
PM 21:35 2185 22:00 2175		8	PM 05:00 05:07	2167 2 <u>167</u> -2184	17	76 76
22:15 2175-2185		8	05:30	2182		76
22:30 2182		8	06:00	2178		76
23:00 2170 23:10 2170-2184		'8 '8	06:30 06:38	<u>2175</u> 2174		<u>76</u> 76
23:50 2170-2184 23:50 2174		8	07:00	$\frac{2174}{2172}$		76
24:00 2172		8	07:22	2172		76
00:15 2168		8	07:30	2172		76
00:30 2166-2184		8	07:48	2173		76
01:00 2178		7	08:00	<u>2174</u>		78
01:15 2174		7	08:30	<u> 2176</u>		78
01:30 2170		6	08:50	<u>2179</u>	-	<u>78</u>
01:40 2167-2184 02:00 2181		6	09:00 09:10	2180 BLED TO 2179		78 78
02:30 2177		6 6	09:10	2182		78
02:45 2173		6		BLED TO 2179		79
03:05 2169		6	09:55	2183		79
03:10 2167-2184	<u> 17 7</u>	6	09:56	BLED TO 2181		79
<u>03:30</u> <u>2181</u>	7	6	10:00	2182		<u>79</u>
<u>03:37</u> <u>2178</u>		6				
04:00 2177		<u>'6</u>				
04:30 2172		6				· · · · · · · · · · · · · · · · · · ·
Comments: Test goo	a.					
TETCO Representative:	. T. Jones	Selec	ontractor R	epiesentative.	G.B. Emert,	Jr.
Recorders Last Tested:			Deadweight	t Serial No.:	14034	
Tost Controctor: Santa	Fe Offshore	Constr	ruction (Company	•	



11:1

CALIBRATION CERTIFICATE

MAXE	Chandler	SERIAL NUMBER 14034
PRESSURE RANGE	50-3,000ps1	_CALIBRATED TO MANUFACTURER'S SPECIFICATIONS
	ON_May 31, 1984	INSPECTOR Johnny Contill
This is to certify that t	his instrument has been inspected a	and tested against Pressure Standard_Chandler
Engineering S/	N 19134 traceable	to the National Bureau of Standards, traceability reference
	P-7223	



RTE. 1, BOX 430 — HOUMA, LA 70360 HWY. 90 WEST TELEPHONE: BUS. 504/876-1695



CALIBRATION CERTIFICATE

SF#1

MAKE_____Barton

SERIAL NUMBER_

265-4731

TEMPERATURE RANGE

0-200F

_CALIBRATED TO MANUFACTURER'S SPECIFICATIONS

DATE OF CALIBRATION .

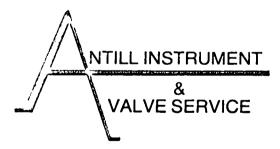
June 4, 1984

INSPECTOR

RTE. 1, BOX 430 — HOUMA, LA 70360

HWY. 90 WEST

TELEPHONE: BUS. 504/876-1695

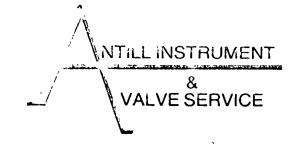




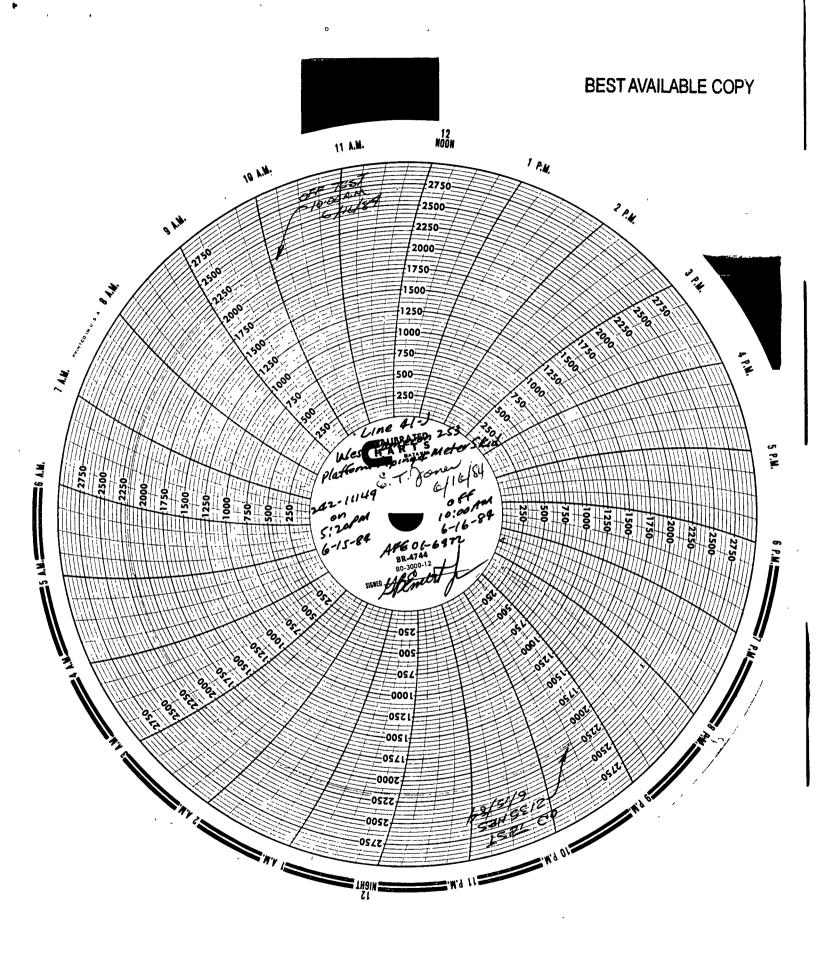
CALIBRATION CETTIFICATIE

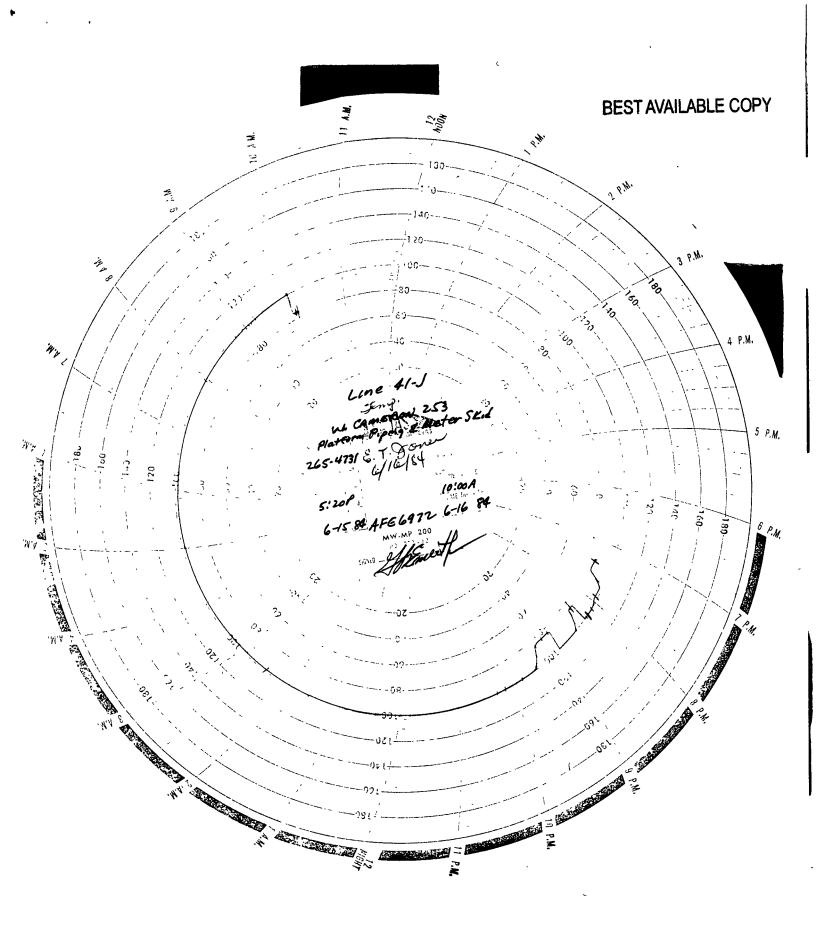
5-12

MAKE	Barton	Circle Search . Law.	
Pressure P	ANGE 0-3,000	psi Chl.D.ATTI	
date of c al	IBRATION Hay 25, 19	954 <u>NSPECTOR</u>	
Tals is to cert	ify that this instrument has bo	een inspected and tested പ്രപ	
Thrinseri	ing S/N 18187	traceable to the Nacona	i buroud or Signitarde, tractability resord.
		P-7223	



HTL 1, BOX 450 FEDUICA, CA 707 HWY, 90 WEL TELEPHONE BUS BO 7570 1000





Transmission Corporation

FIELD PRESSUI	RE & TEST REPORT
Line Description: Latorn Lip	ing & meter Skid
Section Tested: From: Ponnjoil E	latterno: Riser Flance
Test Section No.:	Length:
Size of Pipe: 8" O.D. x 8432 W.T. x	Grade Manufacturer:
Pressure Unit No.: Gallons per Stro	
Pressure Unit Location: Rennyole Plat	Kom Water Source: Sennyoel Statfor
Time and Date Test Started: 2135 PM 6/15/	
Time and Date Test Ended: 1000 PM 6/16/	Stroke-Pressure Plot: YesNo
Section AcceptedSection Leaking	Section Ruptured NO
DEADWEIGHT RECO	ORDED READING (PSIG)
Date: 6 16 84	
TIME PRESSURE STROKES TEMP.	TIME PRESSURE STROKES TEMP.
PM 2135 2185 78°	PM 0500 2167 76°
2200 2175 780	0507 2167-2184 17 760
7230 2182 780	0520 2182 76° 0600 2178 76°
2300 2170 78° 2310 2170-2184 14 78°	$\frac{0630}{0638}$ $\frac{1175}{2174}$ $\frac{76^{\circ}}{76^{\circ}}$
2350 2174 78° 2400 3172 78°	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
0015 2168 78° 0030 2166-2184 18 78°	0730 2172 76°
0/00 2178 770	1 0800 2174 78°
0115 2174 77° 0130 2170 76°	7/ 0850 2179 780
10140 2167-2184 17 76° 0300 2181 76°	2900 Blo to 2179 78°
0230 2177 760	T 0930 2182 78°
0345 2173 76°	7132
C 3 10 2 167 - 2 184 17 76° O 3 3 O 2 181 76° C 3 3 7 2 1 18 76° O 4 0 O 2 1 7 7 76°	0956 Blot 2181 79° 1006 2182 79°
6337 0400 2177 76°	
$\frac{0400}{0430}$ $\frac{2177}{2172}$ $\frac{76^{\circ}}{76^{\circ}}$	
Comments: Fest good	
TETCO Representative: E.T. JONES	Contractor Representative: **Besset** **Description** **Description**
Recorders Last Tested:	Deadweight Serial No.: 14034
	7 + 0 00 0 100 00 4

Jemperature andinent SS# 265-4731

Pressure - 242-11149

E. T. Jones Ceftle/84

PRE-TEST REPORT

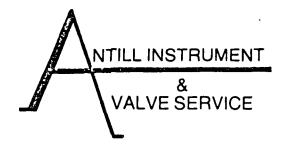
LINE NAME: Line 41-J Riser	Pipe
JOB NO:	WORK ORDER NO: AFE-6972
LOCATION OF TEST:Santa Fe Yar	đ
LENGTH:O.D.:8.	625" WALL THICKNESS: 0.500"
PRE-TEST NO.: 1	SECTION PLOTTED: NO
TIME TEST STARTED: 8:10 p.m.	DATE TEST STARTED: 5/3/84
TIME ACCEPTED: 8:20 a.m.	DATE ACCEPTED: 5/4/84
MAXIMUM PRESSURE: 4000	MINIMUM PRESSURE: 3950
SPEC. MIN. YIELD: 35,000	MANUFACTURER: Armco
MAXIMUM O.D. STRESS:	MINIMUM O.D. STRESS:
DEAD WEIGHTS: 12793	TEST ENGINEER: Tommy Pluss
REMARKS:	

TEXAS (

Transmission Corporation

ine Description: 8" Riser AFE-6972	······································
Section Tested: From:	То:
est Section No.:	Length:120'
Size of Pipe: 8.625"O.D. x .500" W.T.	x Grade B Manufacturer: J&L STEEL
ressure Unit No.: Gallons per St	roke: Fill Unit No.:
ressure Unit Location:	Water Source: City of Houma
ime and Date Test Started: 8:10 PM 5/3/84	Water Source: City of Houma Test Pressure (Maximum): 4000 PSIG Stroke-Pressure Plot: Yes No
ime and Date Test Ended: 8:20 PM 5/4/84	4 Stroke-Pressure Plot: Yes No
ection Accepted YES Section Leakin	gSection Ruptured
DEADWEIGHT REC	ORDED READING (PSIG)
Date: 5 4 84	
TIME PRESSURE STROKES TEMP.	AM
PM 8:10	1:15 3975 75 1:56 3965-4000 REPRESSURE 75 2:15 3994 74 3:15 3980 74 4:15 3970 74 4:20 3970-4000 REPRESSURE 74 5:15 3983 74 5:55 3965-4000 REPRESSURE 74 6:15 3980 73 7:15 3973 73 8:15 3990 76 8:20 3990 76
Comments:	
ETCO Representative: Towny Fluss	Contractor Representative: Clarence Abshire, J
Recorders Last Tested: 2/14/84	Deadweight Serial No.:12793
est Contractor: Santa Fe Offshore Const	truction Company

MAKE	Chandler			_SERIAL NUMBE	ER12793	
PRESSURE F	RANGE	50-5,00	0psi	_CALIBRATED T	TO MANUFACTURER	'S SPECIFICATIONS
DATE OF CAL	_IBRATION	Feb. 14, 198	4.	INSPECTOR	Ju Cuttly St Pressure Standard	/
This is to cert	ify that this ins	strument has been	inspected a	nd tested agains	∀ st Pressure Standard	Chandler
	ng S/N 19					raceability reference
			P-7223			



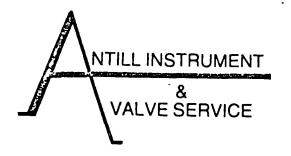
BEST AVAILABLE COPY

RTE. 1, BOX 430 — HOUMA, LA 70360 HWY. 90 WEST TELEPHONE: BUS. 504/876-1695

CALIBRATION CERTIFICATE

SF# 7

MAKE	Barton	SERIAL NUMBER
PRESSURE RA	NGE 0-5,000psi	CALIBRATED TO MANUFACTURER'S SPECIFICATIONS
DATE OF CALIE	BRATION_ Feb. 14, 1984	INSPECTOR for Control
This is to certify	、 that this instrument has been ins	pected and tested against Pressure Standard Chandler
	♥ S/N 19134	aceable to the National Bureau of Standards, traceability reference
	P-7223	



RTE. 1, BOX 430 — HOUMA, LA 70360 HWY. 90 WEST TELEPHONE: BUS. 504/876-1695

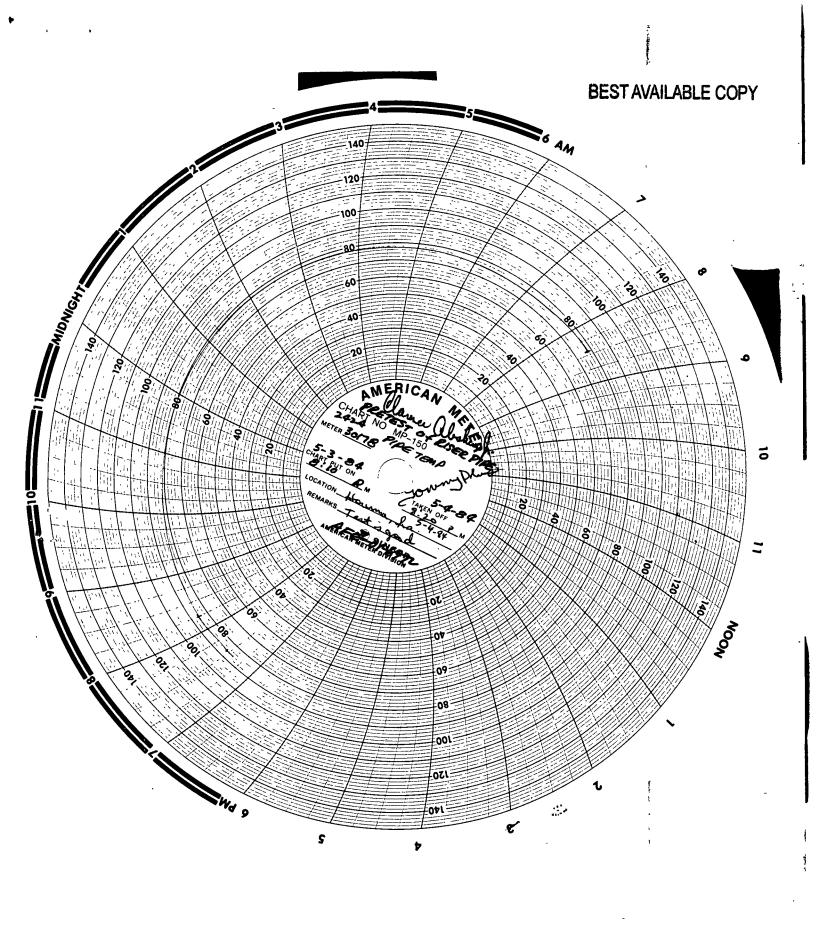
CALIBRATION CERTIFICATE

SF# 8

MAKE	Barton	SERIAL NUMBER_	242A-30178
TEMPERATURE RANG	GE 0-150F	CALIBRATED TO MANUF	ACTURER'S SPECIFICATIONS
DATE OF CALIBRATION	ON <u>Feb. 14, 1984</u>	T, INSPECTOR	ctul



RTE. 1, BOX 430 — HOUMA, LA 70360 HWY. 90 WEST TELEPHONE: BUS. 504/876-1695



TEXAS ⊚ EASTERN

Transmission Corporation

Line Descri	ption: <u>8 K</u> 7-81 3 <i>R-90</i> 1	<u>. Lex</u>	A	t F (0)	9772		
Section Tes				то	o:		
Test Section	n No.:			Length:	1201		
					Manufacture	Armed	<u>eel</u>
Pressure Un	nit No.:	Gallo	ons per Stroke	ə:	Fill Uni	it No.:	
Pressure Un	nit Location:			Water S	Source: C.Y	of Hou.	na
Time and D	ate Test Started:	8:10 PM	5-3-84	Test Pressu	ource:	4000	PSIG
		(AIV)			ssure Plot: Yes _		
					Section Rup		
	·		SHT RECOR		•		
Date: 5	4 84				• • • • • •		•
TIME		STROKES	ТЕМР.	TIME	PRESSURE	STROKES	TEMP.
AM PM				SISPM	3983		7160
8,10 (LIA)	4000		770	57 5 5		Pa Park	740
8:12	3996		770	6:15	<u>3980</u>	(6-1 <u>162)</u>	73°
2:30	3988	 	770	7:15	3973		73°
8:42	3965-3998		760	8:15	3990		768
8:45	3998			2:20	3990		760
9:00	3980		76°				
9:10	3965-3999 (Re	-Pies)	760				
9:15	3996		76°				
9:35	3966-39980		_76°				
10:00	3915-3997	(Re-Pros)	760				
10:15	3977	-	760				
10:27	3965-3999	Re-Pres	760				
11:00	3966-3997	Re-Pres)	76°				
11:12	3995 3969-4000	72.4 2	 0				
12:15 AM	3975	(Ke-Hee)	750				
12:40	3967-4000	(80-Pres)	750				
1:15	3975						
1:56	3965-4000 (Re-Pres	750				
2:15	3994	·	<u> 74°</u>				
3 15	3980		740				
4:20	3970	0 0	75° 75° 75° 74° 74°				
4,20	3970-4000	(Ketres)					
Comments:	·					1 4	
TETCO Re	presentative: 🚬	Sommy P!	lun c	Contractor Re	epresentative:	Carena G	leshie)
Recorders I	Last Tested: 4	elnuary	14,1984	Deadweight	Serial No.:	12793	
	actor: Sait	•					

PRE-TEST REPORT

LINE NAME: Line 41-J Platform	Pipe- West Cameron 253
JOB NO:	WORK ORDER NO: AFE-6972
LOCATION OF TEST: Santa Fe Yard	
LENGTH: 92'8" O.D.: 8.6	25 WALL THICKNESS: 0.500
PRE-TEST NO.: 2	SECTION PLOTTED: NO
TIME TEST STARTED: 4:35 PM	DATE TEST STARTED: 5/15/84
TIME ACCEPTED: 4:40 AM	DATE ACCEPTED: 5/16/84
MAXIMUM PRESSURE: 2175	MINIMUM PRESSURE: 2160
SPEC. MIN. YIELD:	MANUFACTURER:
MAXIMUM O.D. STRESS:	MINIMUM O.D. STRESS:
DEAD WEIGHTS: 13014	TEST ENGINEER: TOMMY PLUSS
REMARKS:	

TEXAS (

Transmission Corporation

Line Description: Pre-test Platform P	iping-	AFE-696	9, 6967, 697	2	
Section Tested: From:		То	:		
Test Section No.: 432		Length:			
Size of Pipe: 8" O.D. x 500 W	V.T. x Gra	de <u>GR. B</u>	Manufacturer:		
Pressure Unit No.: Gallons po					
Pressure Unit Location:		_ Water Se	ource:	2160	
Time and Date Test Started: 4:35 PM 5/					
Time and Date Test Ended: 4:40 PM 5/	16/84	Stroke-Pres	sure Plot: Yes	No	
Section Accepted X Section Le	eaking		Section Ruptu	red	
DEADWEIGHT	RECORD	ED READI	NG (PSIG)		
Date: 5 16 84					
AM	EMP.	TIME AM	PRESSURE	STROKES	TEMP.
3:30 Start Pressure 4:35 2175 4:45 2175 5:00 2175 5:15 2173 5:19 2175-2169 BLEED 5:30 2173 5:37 2175-2170 BLEED 8 8 6:09 2161-2172 R.P. 6:14 2162-2171 R.P. 6:19 2162-2175 R.P. 6:35 2164-2175 R.P. 6:41 2162-2173 R.P. 6:41 2162-2174 R.P. 6:54 2162-2174 R.P. 6:58 2161-2175 R.P. 7:05 2162-2175 R.P. 8 2162-2175 R.P. 8 2162-2175 R.P.	12 ⁰	8:43	2164-2175 2164-2175 2161-2175 2161-2175 2170	R.P. R.P. R.P. R.P. R.P. R.P. R.P. R.P.	80° 81° 81° 81° 80° 80° 80° 80° 80° 80° 78° 78° 78° 78° 78° 78° 78° 78
Comments: R.P. means Repressure					
TETCO Representative: Donny Plus	AN CO	ntractor Re	presentative: Clar		re, Jr.
Recorders Last Tested: May 10, 1984	[Deadweight	Serial No.:	13014	
Test Contractor: Santa Fe Construct	tion Co				

TEXAS **⊘** EASTERN

Transmission Corporation

Line Description: Pre-Test Platform Piping- AFE-6969, 6967, 6972 (cont.)							
Section Tested	d: From:			То) :		
Test Section N	lo.:	422		Length:	•		
Size of Pipe: _	6" 8" O.C	.432 D. x <u>.500</u>	W.T. x Gr	ade <u>Gr.</u>	B. Manufacture	er:	
Pressure Unit I	No.:	Gallo	ns per Stroke	:	Fill Uni	t No.:	
Pressure Unit	Location:		· · · · · · · · · · · · · · · · · · ·	Water S	ource:	2160	
Time and Date	e Test Started: _	-AM 4:35 PM		Test Pressu	re (Maximum):		PSIG
Time and Date	e Test Ended:	AM 4:40 PM	5/16/84	Stroke-Pres	sure Plot: Yes _	No	
Section Accep	ted X	Section	on Leaking		Section Rup	tured	
•		DEADWEIG	HT RECORI	DED READI	NG (PSIG)		
Date: <u>5</u> 1	6 84						
AM-	RESSURE	STROKES	TEMP.	TIME AM	PRESSURE	STROKES	TEMP.
PM 10:51 2	2163-2175	R.P.	770	PM -	2164		740
11:03	2161-2175	R.P.	770				
	2162-2175 2161-2175	$\frac{R.P.}{R.P.}$	770 770 760 760 760 760 760 760 760 760				
11:44	2162-2175	R.P.	760				
	2175 2162-2175	D D	760				
12:00am 2 12:16 2	$\frac{2163-2175}{2161-2175}$	R.P.	$\frac{760}{760}$				
12:33	2162-2175	R.P.	760				
12:45	2165		76				
	2161-2175	R.P.	$\frac{760}{760}$				
	2161-2175 2162-2175	$\frac{R.P.}{R.P.}$	76° 76°				
1:45	2162		760				
	2161-2175	R.P.	760				
	2162-2175	R.P.	76° 76°				
	<u>2163-217</u> 5 2167	<u>R.P.</u>	760				
	2162-2175	R.P.	76		<u></u>		
	2162-2175	R.P.	760				
	2163		760			 	
	2162-2175	<u>R.P.</u>	76° 75°				
4:24	<u>2163-217</u> 5	R.P.	_/3				
Comments: R.P. means repressure							
TETCO Repre	esentative: 20	my Rl	WAS C	ontractor Re	presentative: <u>C</u>		hire, Jr.
Recorders Las				Deadweight :	Serial No.:	13014	
Test Contractor: Santa Fe Construction Co.							

CALIBRATION CERTIFICATE

SF# 8

MAKE______S

SERIAL NUMBER ___ 242A-30178 '

TEMPERATURE RANGE 0-150E CALIBRA

_ CALIBRATED TO MANUFACTURER'S SPECIFICATIONS

DATE OF CALIBRATION Feb. 14, 1984

INSPECTOR

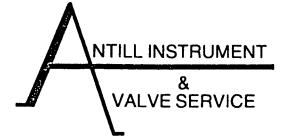
NTILL INSTRUMENT

VALVE SERVICE

RTE. 1, BOX 430 — HOUMA, LA 70360 HWY. 90 WEST TELEPHONE: BUS. 504/876-1695

CALIBRATION CERTIFICATE

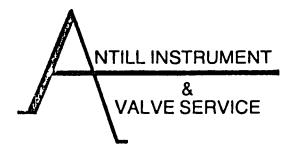
MAKETayl	or	SERIAL NUMBER
PRESSURE RANGE	0-3,000psi	CALIBRATED TO MANUFACTURER'S SPECIFICATIONS
DATE OF CALIBRATION	May 10, 1984	INSPECTOR Johnny Intill
This is to certify that this	instrument has been inspect	ed and tested against Pressure StandardChandler
Engineering S/N 1	9134 traceal	ble to the National Bureau of Standards, traceability reference
, '	P-72	23



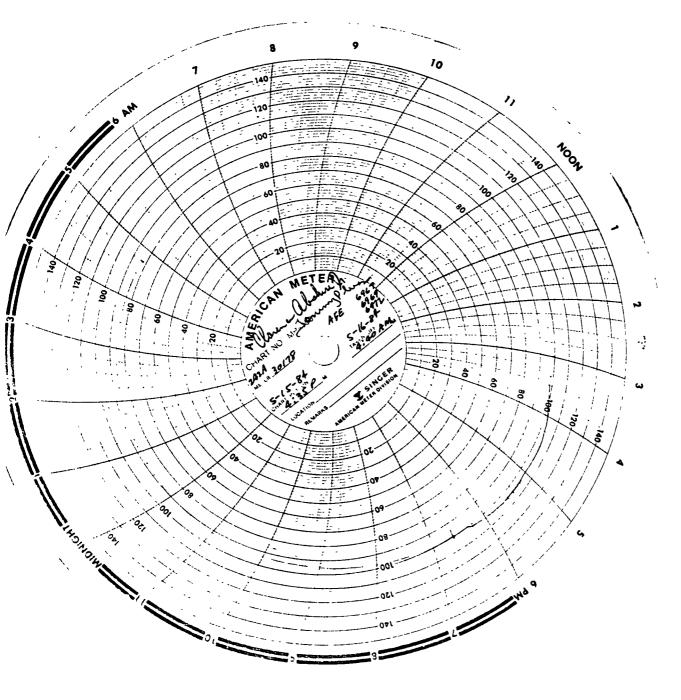
RTE. 1, BOX 430 — HOUMA, LA 70360 HWY. 90 WEST TELEPHONE: BUS. 504/876-1695 SF #2

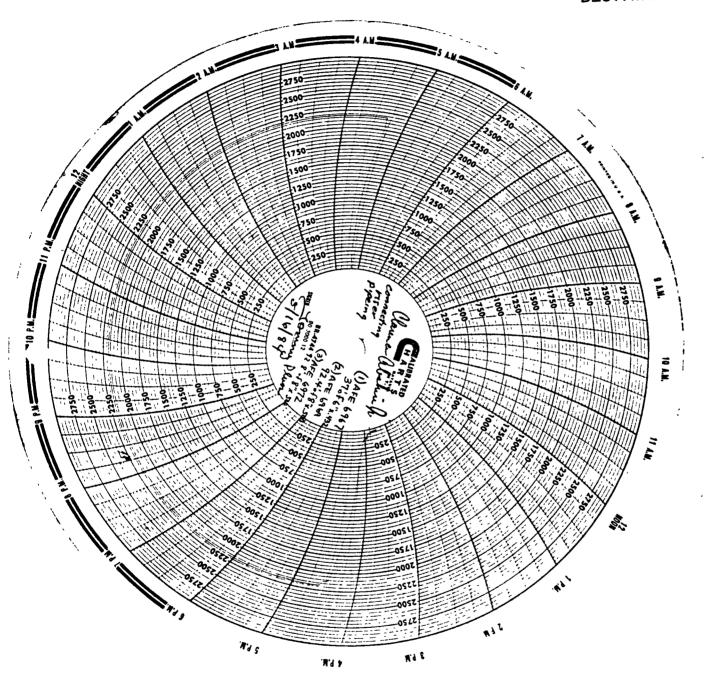
CALIBRATION CERTIFICATE

MAKE	Chandler	Engineering	SERIAL NUMBER 13014			
PRESSURE	RANGE	50-3000 nsi	CALIBRATED TO MANUFACTURER'S SPECIFICATIONS			
DATE OF C	ALIBRATION	May 11, 1984	INSPECTOR And Castul			
This is to ce	ertify that this in	strument has been inspe	cted and tested against Pressure Standard Chandler			
	ring s/n 185	:12	eable to the National Bureau of Standards, traceability reference			
		P-7223	•			



RTE. 1, BOX 430 — HOUMA, LA 70360 HWY. 90 WEST TELEPHONE: BUS. 504/876-1695





EASTERN

Transmission Corporation

Pretent AFE 6969 6967 76972

Line Description: Page	test Conn	ecting ?	Lier Py	ping -		
Section Tested: From:						
Test Section No.:			Length			
Test Section No.:	٠ ٤٦ ٠ ١٥٠٥ ـ × .0.D	, W.T. × G	irade <u>Su</u> B	Manufacture	er:	
Pressure Unit No.:	Gallo	ons per Strok	(e:	Fill Uni	t No.:	
Pressure Unit Location:			Water S	Source: City	of Hound	
Time and Date Test Star	ted: 4:35 PM (AM)	5-15-8	¥ Test Press	ure (Maximum):	2/75	PSIG
Time and Date Test End	ed: 4:40 PM	5-16-80	£ Stroke-Pre	ssure Plot: Yes _	No	
Section Accepted	Secti	on Leaking_		Section Rup	tured	
	DEADWEI	GHT RECOF	RDED READ	ING (PSIG)	EST AVAILABL	F COPY
Date: 5 16 84	<u>.</u>			.		
TIME PRESSURE	STROKES	TEMP.	AM	PRESSURE	STROKES	TEMP.
PM	Reck Bleed Bleed R.P. R.P. R.P. R.P. R.P. R.P. R.P. R.P	89° 89° 88° 88° 88° 88° 82° 82° 82° 82	PM 1:d9 7:34 7:41 7:41 7:43 8:03 8:11 8:49 9:04 9:47 9:45 9:45 9:45 10:12 10:12 10:45	2162-2175 2162-2175 2162-2175 2162-2175 2162-2175 2164-2175 2164-2175 2161-2175 2162-2175 2163-2175	R.P.	80° 80° 80° 80° 80° 80° 80° 80°
Comments: R. P. mea	ns Repressu	rad				· ·
TETCO Representative:	Zonny F		Contractor R	epresentative:	laura (Whi.
Recorders Last Tested: May 10-84 Deadweight Serial No.: ### /3014						
Test Contractor: Santa Fe						



Test Contractor:__

Transmission Corporation

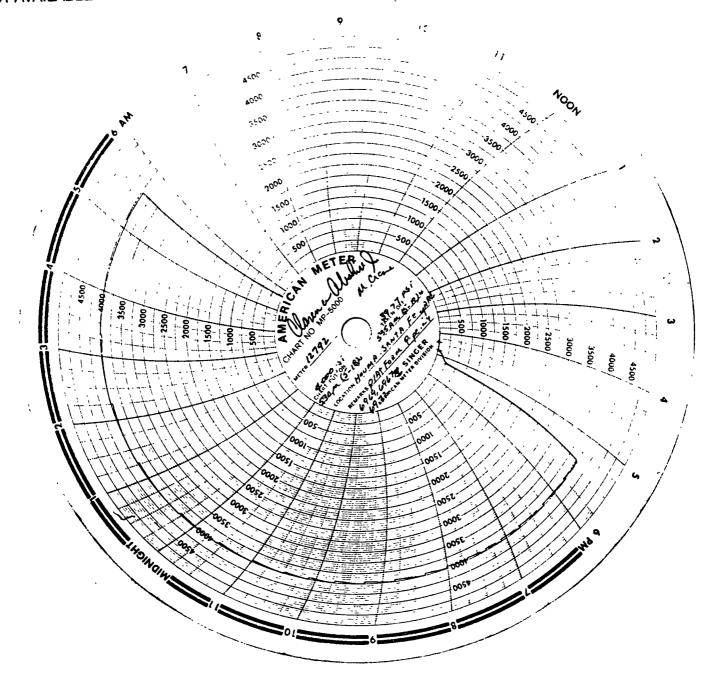
FIELD PRESSURE & TEST REPORT **BEST AVAILABLE COPY** Line Description: Section Tested: From: ______ To: _____ To: Size of Pipe: 8 O.D. x - 500 W.T. x Grade G. B Manufacturer: Pressure Unit No.: _____ Gallons per Stroke: _____ Fill Unit No.: _____ _____ Water Source: _____ Pressure Unit Location: Time and Date Test Started: 4:35 PM 5/15/84 Test Pressure (Maximum): 2175 max PSIG Time and Date Test Ended: 4:40 PM 5/16/84 Stroke-Pressure Plot: Yes ______No _____ Section Accepted _____Section Leaking_____Section Ruptured _____ **DEADWEIGHT RECORDED READING (PSIG)** Date: 5 16 84 TIME PRESSURE STROKES TEMP. TIME PRESSURE STROKES TEMP. AM RP Menus Repressured TETCO Representative: Classe Contractor Representative: Classe College Contractor Representative: Classe Contr

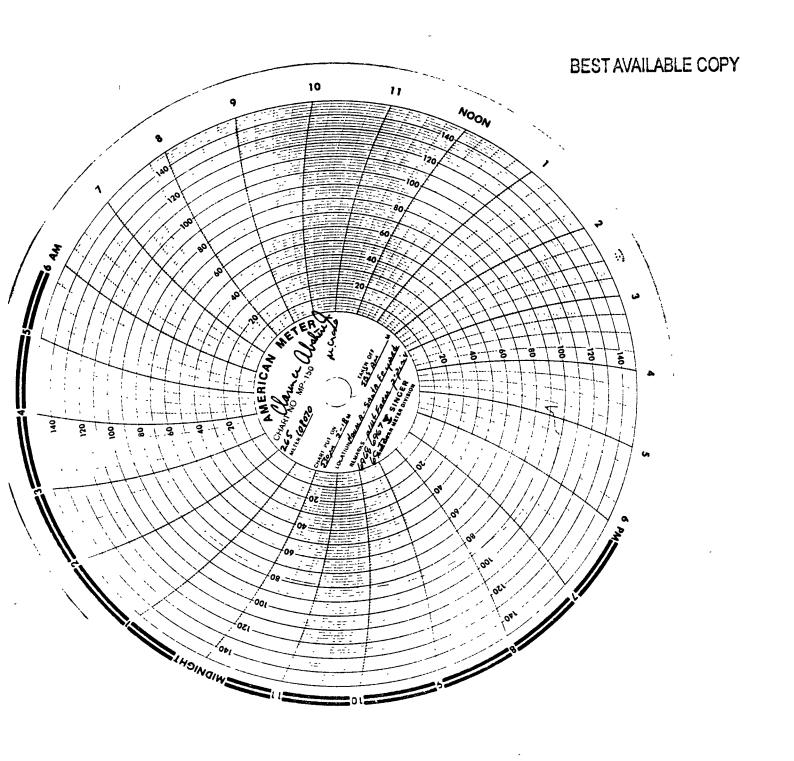
PRE-TEST REPORT

LINE NAME: Line 41-J Platform	n Pipe
JOB NO:	WORK ORDER NO: AFE-6972
LOCATION OF TEST: Santa Fe Yard	1
LENGTH: 92'8" O.D.: 8.62	25 WALL THICKNESS: 0.500
PRE-TEST NO.: 2R	SECTION PLOTTED:
TIME TEST STARTED: 5:30 P.M.	DATE TEST STARTED: 5/18/84
TIME ACCEPTED: 5:35 A.M.	DATE ACCEPTED: 5/19/84
MAXIMUM PRESSURE: 4000	MINIMUM PRESSURE: 3950
	MANUFACTURER:
MAXIMUM O.D. STRESS:	MINIMUM O.D. STRESS:
DEAD WEIGHTS:	TEST ENGINEER: MALCOLM CRANE
REMARKS:	

Transmission Corporation

Line Description: AFE-6967, Line #	61, AFE-6	969, Lin	e #40-G-3,	AFE-6972, 1	Line #41-3
Section Tested: From:		T	o:		
Test Section No.: Platform Piping		Length	•	· · · · · · · · · · · · · · · · · · ·	
Size of Pipe: O.D. x	W.T. x Gr	ade	Manufactu	rer:	
Pressure Unit No.: Gall	lons per Stroke):	Fill Ur	nit No.:	
Pressure Unit Location: Santa Fe Yar		Water S	Source: <u>City</u>	of Houma, I	LA
Time and Date Test Started: 5:30 PM AM	5/18/84	Test Press	ure (Maximum): ₋	4000 (+0, -	<u>-50)</u>
Time and Date Test Ended: 5:35 PM		Stroke-Pre	essure Plot: Yes.	No _	Χ
Section Accepted YES Sect	ion Leaking		Section Ru	otured	
DEADWE	GHT RECORI	DED READ	ING (PSIG)		
Date: 5 18 84					
AM REMARKS	TEMP. AMB/PIPE	AM	PRESSURE	STROKES REMARKS	
PM 5:30 4000 5:36 4000-3992 5:45 3995 6:00 3980 6:15 3960-4000 REPRESSURE 6:30 3979 6:44 3962-3999 REPRESSURE 7:04 3959-4000 REPRESSURE 7:30 3980 REPRESSURE 7:40 3958-4000 REPRESSURE 8:00 3960-4000 REPRESSURE 8:21 3960-4000 REPRESSURE 8:30 3985 REPRESSURE 9:16 3957-4000 REPRESSURE 9:30 3980 REPRESSURE 10:08 3963-4000 REPRESSURE 10:30 3970 REPRESSURE 10:30 3964-4000 REPRESSURE 11:30 3969	82/ 81/100 80/98 80/97 80/96 80/ 79/ 79/90 78/ 78/ 78/ 78/ 77/ 77/ 77/ 77/ 77/ 77/	1:19 1:30 2:18 2:30 3:24 3:30 4:30 5:11	3996 3 <u>961-3999</u> 3995	REPRESSURE REPRESSURE REPRESSURE	76/77 76/ 76/76 76/74 76/74 76/74 76/73
11:35 3965-4000 REPRESSURE Comments:	76	`			
1	,				
TETCO Representative: Macoum Ca	EANE C	ontractor R	epresentative:	Clarence A	bshire
Recorders Last Tested: 1/16/84 1/		•	Serial No.:1	2792	
Test Contractor: Santa Fe Offsh	ore Const	ruction	Co.		

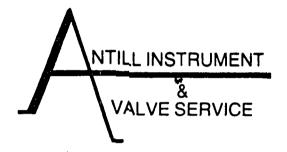




CALIBRATION CERTIFICATE

SF# 8

MAKE	Chabdler	SERIAL NUMBER 12792
PRESSURE F	RANGE 50-5,000ps:	CALIBRATED TO MANUFACTURER'S SPECIFICATIONS
DATE OF CAI	LIBRATION Feb. 14, 198	INSPECTOR Cultur
This is to cert	tify that this instrument has beer	spected and tested against Pressure Standard Chandler
	ng S/N 19134	raceable to the National Bureau of Standards, traceability reference
		-7223
		BEST WAILABLE CODY

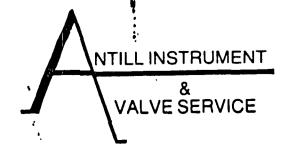


RTE. 1, BOX 430 — HOUMA, LA 70360 HWY. 90 WEST TELEPHONE: BUS. 504/876-1695

CALIBRATION CERTIFICATE

SF# 9

MAKE Barto	on	SERIAL NUMBER	265-108070
TEMPERATURE RANGE	0-150F	CALIBRATED TO MANUFAC	TURER'S SPECIFICATIONS
DATE OF CALIBRATION	Jan. 16, 1984	INSPECTOR John	y Antill



RTE. 1, BOX 430 — HOUMA, LA 70360 HWY. 90 WEST TELEPHONE: BUS. 504/876-1695

CALIBRATION CERTIFICATE

SF# 8

MAKEB	ARTON	SERIAL NUMBER242-11149				
PRESSURE RANGE	0-5,000psi	CALIBRATED TO MANUFACTURER'S SPECIFICATIONS				
DATE OF CALIBRATION	January 13, 1984	_INSPECTOR Johnny Centrel				
This is to certify that this in		(/ (/ d'and tested against Pressure Standard <u>Chandler</u>				
Engineering S/N 1	9510					
•	P-7223					

NTILL INSTRUMENT

VALVE SERVICE

BEST AVAILABLE COPY

RTE. 1, BOX 430 — HOUMA, LA 70360 HWY. 90 WEST TELEPHONE: BUS. 504/876-1695

AM. PM	PRESSURE PSIG	TEMP.	TEMP. PIPE	REMARKS	AM PM.	PRESSURE PSIG	TEMP.	TEMP. PIPE	REMARKS
-:30	4000	83.	99		12:18	3962-4000	16		RP
:36	4000-3992	82.		Beed	12:50	3996	76	77	
:45	3995	81	100		71 :19	3961-3999	760		R.P.
00	3980	80	98	<u> </u>	1:30	3995	76"	760	•
15	3960-4000	80	97	R. P.	2:19	3 963-4000	760		R.P.
30	3979	80'	96		2:30	3995	760	740	
:44	3962-3999	80		R.P.	324	3961-4000	760		RP
'04	3959-4000	80		R.P.	3:30	4000	760	740	····
2/	3960-4000	79		R.P.	4:30	3977	76	73	
30	3980	74'	90		5:11	3965-3985	76		
40	3958-4000	78		R. P.	5:30	3977	76.	73	
00	19 CO- 11000	78		R.P.	5:35	3977	16.	23	
2/	3960-4000	<i>B</i> .		R.P.					
' <i>30</i>	3985	78'	86						
.49	3963-3999	27		R.P.					
16	3957-4000	77		R.P.		BESTAV	AILABL	E COP	, ·
30	3980	77	83						
43	3961-3909	77		R.P.					
:08	3963-4000	76		R.P.					
:30	3910	76	80						·
'00	3964-11000			R.P.			-		
:30	3969	76	78						
1:35	3965-4000	76		R.P.					_

REMARKS: P3.1.6. 3950- \$4000 R.P.-MEANS REPRESSURED

Re test FOR plat FORM piping

DFO 1969 69678 6973

OVER (used city water

PRE-TEST REPORT

LINE NAME: Line 41-J Rise	er- Re-test for 8" Wheatley Check Valv
JOB NO:	WORK ORDER NO: AFE-6972
LOCATION OF TEST: Derrick Bar	ge- "CHICKASAW"
LENGTH: O.D.:	WALL THICKNESS:
PRE-TEST NO.: 3	SECTION PLOTTED:no
TIME TEST STARTED: 2:30 p.m.	DATE TEST STARTED: 5/26/84
TIME ACCEPTED: 6:45 p.m.	DATE ACCEPTED: 5/26/84
MAXIMUM PRESSURE: 2185	MINIMUM PRESSURE: 2160
SPEC. MIN. YIELD:	MANUFACTURER:
MAXIMUM O.D. STRESS:	MINIMUM O.D. STRESS:
DEAD WEIGHTS: 12792	TEST ENGINEER:Clince Waguespack, Jr.
REMARKS:	
•	

TEXAS ⊚ EASTERN

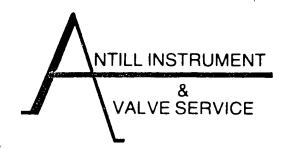
Transmission Corporation

Line Description: 8" Line 41-J Wes	t Cameron 25	3- Pre-Te	est	· · · · · · · · · · · · · · · · · · ·
Section Tested: From: 8" Check Valve wi	th 1 flange	o: 59.11 Rise	er pipe 2-9	0'
Test Section No.:	Length	:		
Size of Pipe:8" O.D. x500 W.T	. x GradeB	Manufacture	er:	
Pressure Unit No.: Gallons per S	Stroke:	Fill Uni	t No.:	
Pressure Unit Location:	Water \$	Source:		
Pressure Unit Location: Time and Date Test Started: 14:30 PM 5/26 Time and Date Test Ended: 18:45 PM 5/26	/84 Test Pressi	ure (Maximum):	2160 2185	PSIG
Time and Date Test Ended: 18:45 PM 5/26	/84 Stroke-Pre	essure Plot: Yes _	No	
Section Accepted YES Section Leak	ing	Section Rup	cured	
DEADWEIGHT RE	CORDED READ	ING (PSIG)		
Date: 5 26 84		• • •		
TIME PRESSURE STROKES TEM	AM	PRESSURE	STROKES	ТЕМР.
PM 14:30 2180 Bled to 2170 98	<u>PM</u>			
15:00 2177 Bled to 2170 94				
15:30 2185 Bled to 2170 96	.9			
15:35 2183 Bled to 2170 98				
15:45 2183 Bled to 2170 99 16:00 2184 Bled to 2170 101				
16:10 2184 Bled to 2170 103				
16:20 2184 Bled to 2170 107				
16:30 2184 Bled to 2170 108				
16:37 2184 Bled to 2170 107				
16:58 2184 Bled to 2177 106 17:00 2184 Bled to 2177 103		 		
17:00 2184 Bled to 2177 103 17:13 2184 Bled to 2175 102				
17:30 2182 99		`		
17:37 2184 Bled to 2175 98	.5			
18:00 2172 96				
18:15 2163 Pumped to 2173 95		 		
18:30 2173 Pumped to 2240 93				
18:31 2240 Bled to 2175 93		 	· · · · · · · · · · · · · · · · · · ·	
18:36 2165 Pumped to 2177 90 18:42 2162 Pumped to 2185 90				
<u>18:42 2162 Pumped to 2185 90</u> <u>18:45 2177 OFF TEST 90</u>				
Comments:			 	
			001.	
TETCO Representative Company	Contractor Re	epresentative: 🚄	. Koten	<u>ر</u>
Recorders Last Tested:5/25/84			2792	
Total Company Company Company	truction Com	nnant		

CALIBRATION CERTIFICATE

SF#8

MAKEChar	ndler	SERIAL NUMBER	12792
PRESSURE RANGE5	0-3,000psi	_CALIBRATED TO MANUFA	ACTURER'S SPECIFICATIONS
DATE OF CALIBRATION_	May 25, 1084	INSPECTOR	Arull, Jr.
This is to certify that this in	nstrument has been inspected a	! 1	Standard Chandler
Frgineering S/N 1	£187 traceable t	o the National Bureau of St	andards, traceability reference
	P-7223		



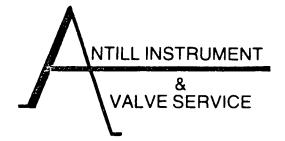
RTE. 1, BOX 430 — HOUMA, LA 70360 HWY. 90 WEST TELEPHONE: BUS. 504/876-1695

BEST AVAILABLE COPY

CALIBRATION CERTIFICATE

SF#F

MAKE Tay	lor	SERIAL NUMBER 35				
PRESSURE RANGE	0-3,000psi	CALIBRATED TO MANUFACTURER'S SPECIFICATIONS				
DATE OF CALIBRATION	"ay 25, 1984	INSPECTORAntilly.				
This is to certify that this	s instrument has been inspect	ed and tested against Pressure Standard Chandler				
Fraineering S/N	- 0- 0-	ole to the National Bureau of Standards, traceability reference				
	P-7223					



RTE. 1, BOX 430 — HOUMA, LA 70360 HWY. 90 WEST TELEPHONE: BUS. 504/876-1695

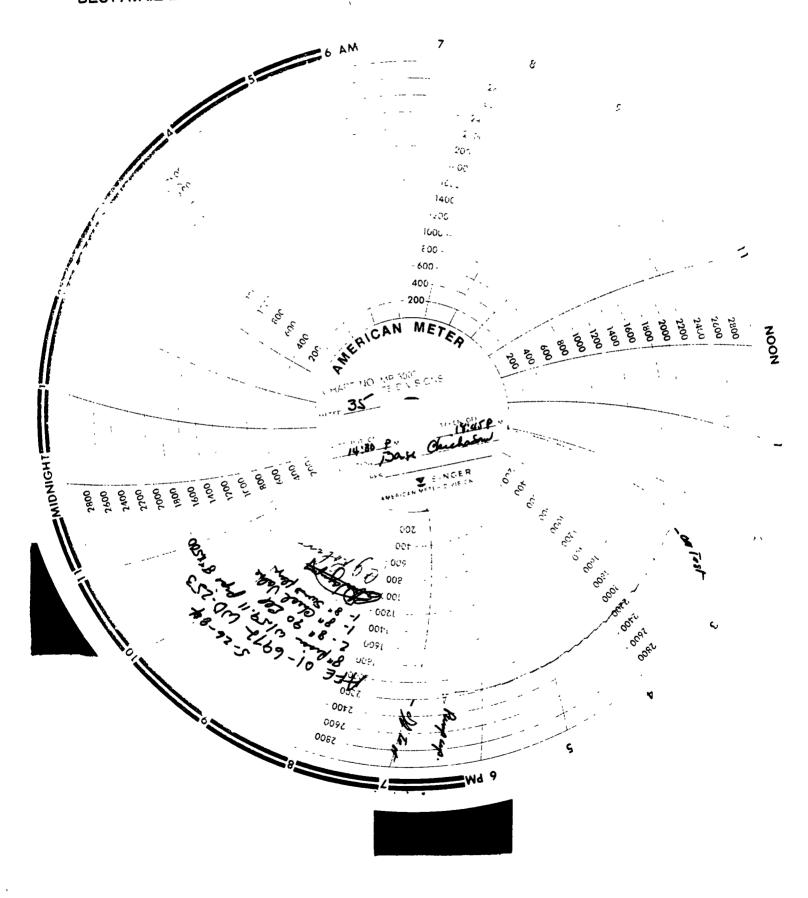
#8

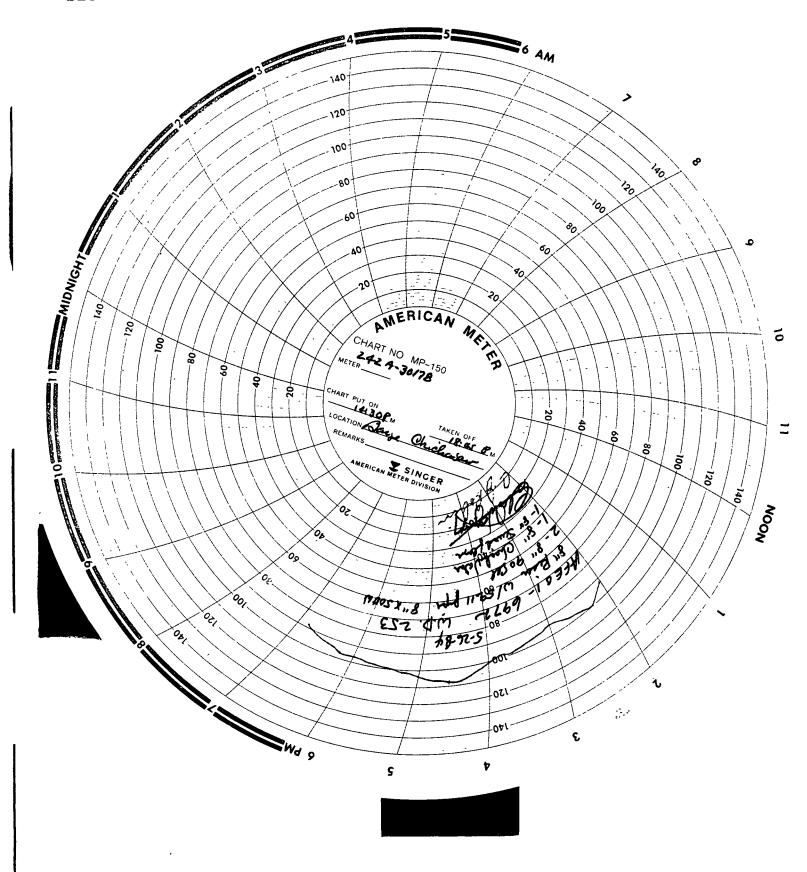
CALIBRATION CERTIFICATE

MAKE	Farton		SERIAL NUMBER	2421-3017°
TEMPERATURE RA	NGE	0-150F	CALIBRATED TO MANUFA	CTURER'S SPECIFICATIONS
DATE OF CALIBRA	ATION ^{**} a	y 18, 1984	INSPECTOR John	my patiel

NTILL INSTRUMENT
VALVE SERVICE

RTE 1, BOX 430 — HOUMA, LA 70360 HWY. 90 WEST TELEPHONE: BUS. 504/876-1695





TEXAS () EASTERN

Transmission Corporation

F	IELD PRESSURE	& TEST RE	PORT Fr	lest	
Line Description: 8" Lim	41-5		W.C 25	3	
Section Tested: From: 8" C	Jack Value	<u> </u>	o: <u>59.11 R.</u>	ian pipe -	<u>2-90'</u>
Test Section No.:		Length:			
Size of Pipe:	<u> 700</u> W.T. x Gr	ade <u>B</u>	Manufactur	er:	
Pressure Unit No.:	Gallons per Stroke	:	Fill Un	it No.:	
Pressure Unit Location:		Water S	Source:		
Time and Date Test Started: 19.30	ED 5.26-84	Test Pressu	ure (Maximum):_	2185	PSIG
Time and Date Test Ended: 18:45	PM 5-26-84	Stroke-Pre	ssure Plot: Yes _	No	
Section Accepted	Section Leaking		Section Rup	tured	
DEAD	WEIGHT RECORD	DED READ	ING (PSIG)		= 007\
Date: 5 26 84				BEST AVAILA	3LE COPT
TIME PRESSURE STROK	ES TEMP.	TIME AM	PRESSURE	STROKES	TEMP.
PM		PM			
1430 2150 BLED TO 2170					
1500 2177 BAED TO 2170 1530 2185 BLED TO 2170					
1535 2183 BLED FO 217	0 95				
1545 2183 BLEN TO 217 1600 2184 DEEN TO 217					
1600 2184 B-EN FC 217 1610 2184 BLEN TU 217					
1620 2154 BLEO TU 21	10 107				
1630 2184 BLED TO 21					
1637 2184 BLED TC 217					
1658 2134 BLEDTO 217 1700 2134 BLEDTO 217					
1713 2184 BLED TO 21					
1730 2182	<u> </u>				
1737 2184 BZED TO 21					
1800 2/72	<u> </u>		 		
1815 2163 Pumped upto 1830 2173 Pic mped up to					
1501 2240 BLED TO 217	93				
1836 2165- Pumped up to	2177 90				
1842 2162 Pumped upt					
1345 2177 OFET	Er _90	 			
					
Comments:					
TETCO Representative	co	ontractor Re	epresentative:	09 Bolin	
Recorders Last Tested: May 25	-84	Deadweight	Serial No.: _/ 2	2792	
Test Contractor: Santa Fra					

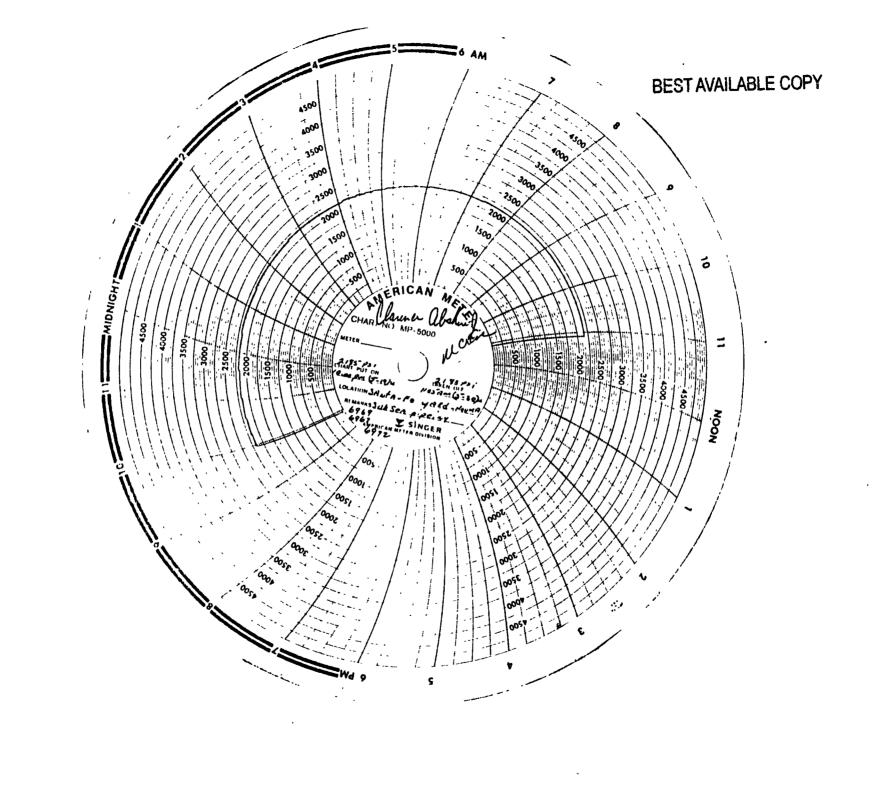
PRE-TEST REPORT

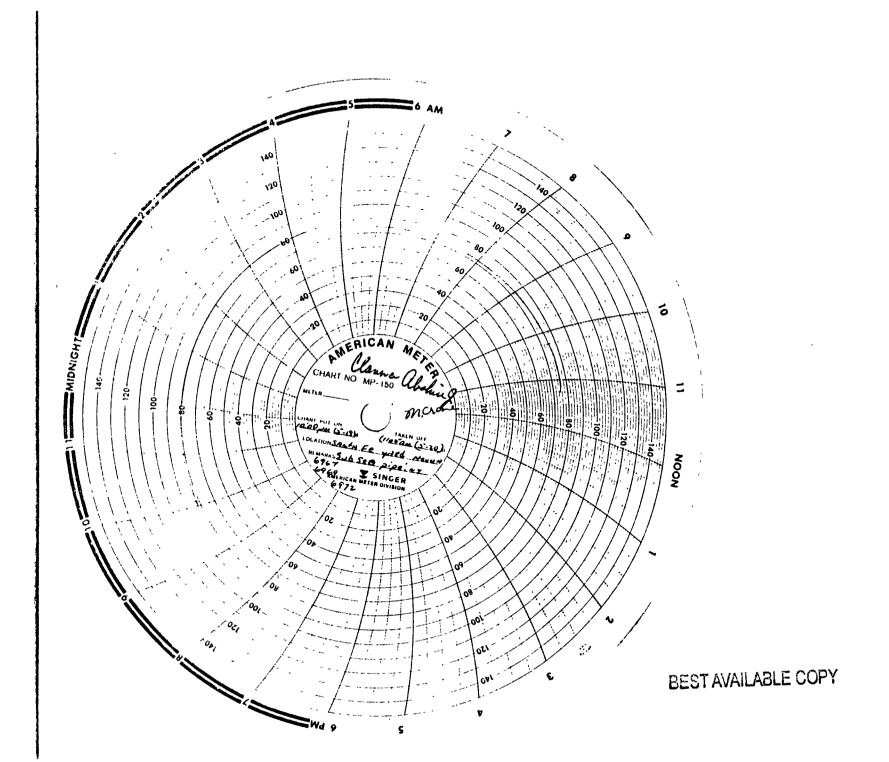
LINE NAME: Line 41-J Sub	-sea Tie-In
JOB NO:	WORK ORDER NO: AFE-6972
LOCATION OF TEST: Santa Fe Ya	rd
LENGTH: O.D.:	WALL THICKNESS:
PRE-TEST NO.: 4	SECTION PLOTTED: NO
TIME TEST STARTED: 10:00 P.M.	DATE TEST STARTED: 5/19/84
TIME ACCEPTED: 11:05 A.M.	DATE ACCEPTED: 5/20/84
MAXIMUM PRESSURE: 2185	MINIMUM PRESSURE: 2160
SPEC. MIN. YIELD:	MANUFACTURER:
MAXIMUM O.D. STRESS:	MINIMUM O.D. STRESS:
DEAD WEIGHTS: 12792	TEST ENGINEER: MALCOLM CRANE
REMARKS:	
	,

TEXAS **⊘** EASTERN

Transmission Corporation

Line Description: AFE-6969, Line 4	0-G-3, AFE	-6967, I	Line 61, AF	E-6972, Lin	e 41-J
Section Tested: From:		То	o:		
Test Section No.: Sub-Sea Tie-in		Length:			
Size of Pipe: O.D. x	W.T. x Gr	ade	Manufactu	rer:	
Pressure Unit No.: Gall	ons per Stroke	:	Fill Ur	nit No.:	
Pressure Unit Location: Santa Fe Yard	đ	Water S	Source:	· · · · · · · · · · · · · · · · · · ·	
Time and Date Test Started: 10:00 PM AM		Test Pressu	ıre (Maximum):.	2185 (+0, -	25) PSIG
Time and Date Test Ended: 11:05 -PM-	5/20/84	Stroke-Pre	ssure Plot: Yes	No _	X
Section Accepted YES Sect	ion Leaking		Section Ru	ptured	
DEADWEI	GHT RECORE	DED READ!	ING (PSIG)		
Date: 5 19 84					
-AM REMARKS	TEMP. AMB/PIPE	AM ~	PRESSURE	STRUKES REMARKS	TEMP. AMB/PIPE
PM 10:00 10:15 10:15 10:30 2175 10:36 2170-2185 REPRESSURE 10:45 2181 11:00 2172 11:03 2170/2185 REPRESSURE 11:38 2170-2185 REPRESSURE 12:00am 2178 12:25 2168-2185 REPRESSURE 1:00 2175 1:26 2170-2185 REPRESSURE 2:40 2175 2181 2:40 2178 2:40 2178 2:40 2179-2185 REPRESSURE 2:00 2178 2:40 2179 2181 4:00 2169 4:05 2168-2185 REPRESSURE 2167-2185 REPRESSURE 2167-2185 REPRESSURE 2167-2185 REPRESSURE 2167-2185 REPRESSURE 2170-2185 REPRESSURE 2167-2185 REPRESSURE 2175 2175 2175 2175 2168-2185 REPRESSURE 2175 2175 REPRESSURE 2168-2185 REPRESSURE 2175 REPRESSURE	76/82 76/82 76/81 76/81 76/81 76/81 75/ 75/80 75/80 75/80 75/80 75/ 75/80 75/80 75/80 75/80 75/ 75/80 75/80 75/ 75/80 75/80 75/ 75/80 75/ 75/80 75/ 75/80 75/ 75/80 75/ 75/80 75/ 75/80 75/ 75/80 75/ 75/80 75/ 75/80 75/ 75/80 75/ 75/80 75/ 75/80 75/ 75/80 75/ 75/80 75/ 75/80 75/ 75/80 75/ 75/80 75/80 75/80 75/80 75/80 75/ 75/80 75	PM 5:44 6:00 6:07 6:31 7:00 7:15 8:00 9:22 9:34 9:43 9:53 10:00 10:05 10:17 10:25 11:00 11:05	$\begin{array}{r} 2170 \\ 2\overline{168-2185} \\ 2\overline{167-2185} \\ 2\overline{171} \\ 2\overline{166-2185} \\ \hline 2174 \\ 2\overline{183} \\ 2\overline{185-2181} \\ 2185-2$	REPRESSURE REPRESSURE REPRESSURE BLEED BLEED BLEED BLEED BLEED BLEED BLEED	71/ 70/74 71 70 70/73 71 72/73 73/73 73/73 74/ 74/ 74/ 75/ 75/ 75/ 72/ 72/ 72/ 72/
Comments:	·····		· · · · · · · · · · · · · · · · · · ·		
TETCO Representative: MALCOLM C	PRNE CO	ontractor Re	epresentative:	d KARANCE,	ABSHIRE
Recorders Last Tested:		Deadweight	Serial No.:		
Test Contractor:					





CALIBRATION CERTIFICATE

AKE Barton		SERIAL NUMBER	265-108070
MPERATURE RANGE	0-150F	_ CALIBRATED TO MANUFAC	TURER'S SPECIFICATIONS
ATE OF CALIBRATION	Jan. 16, 1984	INSPECTOR Johns	J Gatell)
NTILL INSTR	UMENT .	·	X 430 — HOUMA, LA 70360 HWY. 90 WEST ONE: BUS. 504/876-1695
·	·	BE	EST AVAILABLE COPY
# 8 Chabdler	0-5,000ps1	SERIAL NUMBER 12792	TURER'S SPECIFICATIONS
50)-5.000psi	CALIDDATED TO MANUFAC	DHEH 2 SPECIFICATIONS
RESSURE HANGE		_CALIBRATED TO MANUFAC	till
ATE OF CALIBRATION Feb.	14, 1984	_INSPECTOR	Shandler
ATE OF CALIBRATION Feb.	ment has been inspected	_INSPECTOR and tested against Pressure Sta	Chandler Chandler
ATE OF CALIBRATION Feb.	ment has been inspected	_INSPECTOR	Chandler Chandler
ATE OF CALIBRATION Feb. This is to certify that this instruction in the second	ment has been inspected traceable P-7223	INSPECTORCand tested against Pressure State to the National Bureau of Stand	Chandler andard Chandler dards, traceability reference
ATE OF CALIBRATION Feb.	ment has been inspected traceable P-7223	and tested against Pressure State to the National Bureau of Stand	Chandler Chandler
ATE OF CALIBRATION Feb. Inis is to certify that this instruit Ingineering S/N 1913 NTILL INSTRU VALVE SER	ment has been inspected traceable P-7223 MENT	and tested against Pressure State to the National Bureau of Stand	Chandler dards, traceability reference OX 430 — HOUMA, LA 7036 HWY. 90 WEST HONE: BUS. 504/876-1695
ATE OF CALIBRATION Feb. It is is to certify that this instrumng incering S/N 1913 NTILL INSTRU VALVE SER CALIBRATION Feb. NTILL INSTRU AREA SER CALIBRATION Feb. CALIBRATION Feb. CALIBRATION Feb. NTILL INSTRU AREA SER CALIBRATION Feb.	ment has been inspected traceable P-7223 MENT	and tested against Pressure State to the National Bureau of Standard RTE. 1, B	Chandler dards, traceability reference OX 430 — HOUMA, LA 7036 HWY. 90 WEST HONE: BUS. 504/876-1695
ATE OF CALIBRATION Feb. Inis is to certify that this instrumniance of the control of the certify that the control of the certify that the certific	ment has been inspected traceable P-7223 MENT VICE	and tested against Pressure State to the National Bureau of Standard RTE. 1, Boundard TELEP	Chandler dards, traceability reference OX 430 — HOUMA, LA 7036 HWY. 90 WEST HONE: BUS. 504/876-1695

P-7223

_traceable to the National Bureau of Standards, traceability reference



DEADWEIGHT READINGS (rSIG)

TIME	PRESSURE	TEMP	TEMP	REMARKS	Date Test Off	PRESSURE	TEMP	TEMP	REMARKS
AM. PM.	PSIG	AMB.	PIPE	1	AM PM.	PSIG	AMB.	PIPE	
1000	2/95	76	82		5:44	2170-2185	7/	ļ	R.P.
0:15	2170-2185	76	82	R.P.	6:00	2/70	70	74	
10:30	2/75	76	81	-	6.07	2168-2185	71		R.P.
0:36	217-2185	76		R.P.	6:31	267 2185	70		R.P.
0:45	2/81	76	81		7.'00	2/7/	70	73.	
1:00	2/72	76	81		7:15	2/4-2/85	71		RP.
1:03	2/70-2/85	76		<i>es.</i>	8:00	2174	72	73	
1:38	2/70-2/85	75		R.P.	9:00	2/83	73	73	
2.00	2/78	75	81		9:22	2/85-2/83	73		RLeed
2:25	2/13-2/85	75		R.P.	9.34	2185-218	74'		Blees
1:00	2/75	75	80		9.43	285-2181	74		Bleed
:26	2170-2185	75		R.P.	9:53	2/85-2/81	74'		Brees
:00	2178	75	30		10:00	2/84	74		
`ND	2/70-2/85	75			10:05	2/15-2/8/	25.		Bleed
:00	2181	75	80		10:17	2195-2182	75		Bleed
1:00	2/69	75'	80		10:25	2/85-2/81	74		Bleed
1:05	2/68-2/85	75	Ì	R.P.	11:00	2/33	72		
1:24	2/67-2185	١.		R.P.	11:05	2/33	72		EndofTe
	2/67-2/8			R.P.					
	2170-2185	-~		R.P.					
200	2175	72	76						
	2/68-2/85	72		R.P.					
	2168-2135			R, P.					
			o st		R.P. m.	eas Red	(ess.1	e	

PRE-TEST REPORT

LINE NAME: 41J - Subsea Tie-ir	n - Retest for 8" Wheatley Check Valve
JOB NO:	WORK ORDER NO: AFE-01-6972
LOCATION OF TEST: Derrick Barge	Chickasaw
LENGTH: O.D.:	WALL THICKNESS:
PRE-TEST NO.: 4R	SECTION PLOTTED: No
TIME TEST STARTED: 1:30 a.m.	DATE TEST STARTED: 5-26-84
TIME ACCEPTED: 1:35 p.m.	DATE ACCEPTED: 5-26-84
MAXIMUM PRESSURE: 2185	MINIMUM PRESSURE: 2160
SPEC. MIN. YIELD:	MANUFACTURER:
MAXIMUM O.D. STRESS:	MINIMUM O.D. STRESS:
DEAD WEIGHTS: 12793	TEST ENGINEER: Clince Waguespack, Jr.
REMARKS:	V

TEXAS () EASTERN

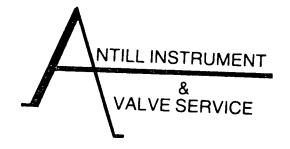
Transmission Corporation

Test Contractor: Santa Fe Construction

400 2177 82.5 430 2177 82 500 2177 82.5 530 2185 Bled to 2180 83.5 600 2180 83.9 700 2185 Bled to 2175 84 800 2180 84 830 2185 Bled to 2175 84 900 2185 Bled to 2175 85 930 2180 85 000 2185 Bled to 2175 85 030 2180 85 000 2185 Bled to 2175 86 130 2175 86 200 2180 86 86 230 2185 Bled to 2175 86 <th></th> <th>FIELD PRESSURE</th> <th>& TEST REP</th> <th>ORT</th> <th>Pre-test</th> <th></th>		FIELD PRESSURE	& TEST REP	ORT	Pre-test	
Section No.:	Line Description: 8" #41-J	W.C. 250				
Test Section No.:	Section Tested: From: 8" Che	eck Valve W/28"	pup andTo:		· · · · · · · · · · · · · · · · · · ·	
Pressure Unit No.:			Length: _			
Pressure Unit Location:	Size of Pipe: 8 O.D.	∢ <u>500</u> W.T. x Gr	rade B	Manufactur	er:	
O130 AM	Pressure Unit No.:	Gallons per Stroke	e:	Fill Un	it No.:	
Time and Date Test Started: PM 5-26-84 AM Test Pressure (Maximum): 2185 PSIG AM AM Test Ended: 1335 PM 5-26-84 Stroke-Pressure Plot: Yes No Section Accepted X Section Leaking Section Ruptured DEADWEIGHT RECORDED READING (PSIG) Date: 05 26 84 TIME PRESSURE STROKES TEMP. TIME PRESSURE STROKES TEMP. AM PM	Pressure Unit Location:		Water So	urce:		
Section Accepted X Section Leaking Section Ruptured	Time and Date Test Started:	PM 5-26-84 AM		e (Maximum):_	2185	
DEADWEIGHT RECORDED READING (PSIG)	Time and Date Test Ended:	1335 PW 5-26-84	. Stroke-Press	sure Plot: Yes_	No	
TIME	Section Accepted X	Section Leaking		Section Rup	otured	
TIME AM PM AM AM PM AM AM PM AM AM PM AM PM AM PM AM PM AM PM AM AM PM AM PM AM PM AM PM AM AM PM AM AM PM AM PM AM PM AM PM AM AM PM AM AM PM AM PM AM AM AM AM PM AM AM AM AM AM PM AM	1	DEADWEIGHT RECOR	DED READIN	IG (PSIG)		
TIME AM PM AM AM PM AM AM PM AM AM PM AM PM AM PM AM PM AM PM AM AM PM AM PM AM PM AM PM AM AM PM AM AM PM AM AM PM AM P	Date: 05 26 84					
AM PM 130						
130		FROKES TEMP.		PRESSURE	STROKES	TEMP.
200 2178 82 1300 230 2178 82 1335 2178 Off Test 300 2177 82.5 330 2177 82.5 4400 2177 82.5 430 2177 82.5 430 2177 82.5 543 83.5 83.5 83.5 83.5 83.5 83.5 83.5 83.9 83.9 83.9 83.9 83.9 83.9 84 83.9 84 84 84 84 84 84 84 84 84 84 84 84 84 84 84 84 85						
230 2178 82 1335 2178 Off Test 300 2177 82.5 330 2177 82.5 400 2177 82.5 430 2177 82.5 500 2177 82.5 500 2177 82.5 500 2180 83.5 600 2180 83.5 630 2180 83.9 700 2185 Bled to 2175 84 730 2175 84 830 2185 Bled to 2175 84 830 2185 Bled to 2175 85 930 2180 85 900 2185 Bled to 2175 85 930 2180 85 900 2185 Bled to 2175 85 930 2180 85 000 2185 Bled to 2175 85 930 2180 85 000 2185 Bled to 2175 85 930 2180 85 000 2185 Bled to 2175 85 930 2180 85 000 2185 Bled to 2175 85 930 2180 86 2180 86 2180 86 2200 2180 86 230 2185 Bled to 2175 86 230 2185 Bled to 2175 86				<u>2154</u> B	le <u>d to 21</u> 75	86.5
300 2177 82.5 330 2177 82.5 400 2177 82.5 430 2177 82.5 500 2177 82.5 530 2185 Bled to 2180 83.5 600 2180 83.5 630 2185 Bled to 2175 84 730 2175 84 880 2180 84 880 2185 Bled to 2175 84 900 2185 Bled to 2175 84 900 2185 Bled to 2175 85 930 2180 85 000 2180 85 000 2180 85 000 2185 Bled to 2175 85 930 2180 85 000 2185 Bled to 2175 85 030 2185 Bled to 2175 85 030 2180 85 000 2185 Bled to 2175 85 030 2180 85 030 2180 85 030 2180 86 230 2185 Bled to 2175 86 130 2175 86 130 2175 86 230 2180 86 230 2180 86	0220 2170	02		2170	Off Boot	
330 2177 82.5 400 2177 82.5 430 2177 82 500 2177 82.5 530 2185 Bled to 2180 83.5 600 2180 83.5 630 2185 Bled to 2175 84 730 2175 84 800 2180 84 830 2185 Bled to 2175 84 830 2185 Bled to 2175 84 900 2185 Bled to 2175 85 930 2180 85 930 2180 85 930 2180 85 930 2180 85 930 2180 85 930 2180 85 930 2180 85 930 2180 85 930 2180 85 930 2180 85 930 2180 85 930 2180 85 930 2180 86 230 2185 Bled to 2175 86 300 2185 Bled to 2175 86	0300 3177	02 E	1333		OII TEST	
400 2177 82.5 430 2177 82 500 2177 82.5 530 2185 Bled to 2180 83.5 600 2180 83.9 700 2185 Bled to 2175 84 800 2180 84 830 2185 Bled to 2175 84 900 2185 Bled to 2175 85 930 2180 85 000 2185 Bled to 2175 85 030 2180 85 000 2185 Bled to 2175 86 130 2175 86 200 2180 86 86 230 2185 Bled to 2175 86 <td>0320 3177</td> <td>02 5</td> <td></td> <td></td> <td></td> <td>*</td>	0320 3177	02 5				*
430 2177 82 500 2177 82.5 530 2185 Bled to 2180 83.5 600 2180 83.9 700 2185 Bled to 2175 84 730 2175 84 84 800 2180 84 88 830 2185 Bled to 2175 85 930 2180 85 85 000 2185 Bled to 2175 85 030 2180 85.5 100 100 2185 Bled to 2175 86 130 2175 86 130 200 2180 86 230 230 2185 Bled to 2175 86.5	0400 2177	02 5				
500 2177 82.5 530 2185 Bled to 2180 83.5 600 2180 83.9 700 2185 Bled to 2175 84 730 2175 84 800 2180 84 830 2185 Bled to 2175 84 900 2185 Bled to 2175 85 930 2180 85 000 2185 Bled to 2175 85 030 2180 Start 3hr. hold 85.5 100 2185 Bled to 2175 86 130 2175 86 200 2180 86 230 2185 Bled to 2175 86.5						
530 2185 Bled to 2180 83.5 600 2180 83.5 630 2180 83.9 700 2185 Bled to 2175 84 730 2175 84 800 2180 84 830 2185 Bled to 2175 85 930 2180 85 000 2185 Bled to 2175 85 030 2180 Start 3hr. hold 85.5 100 2185 Bled to 2175 86 130 2175 86 200 2180 86 230 2185 Bled to 2175 86.5			- 11 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 			
600 2180 83.5 630 2180 83.9 700 2185 Bled to 2175 84 730 2175 84 800 2180 84 830 2185 Bled to 2175 85 930 930 2180 85 000 2185 Bled to 2175 85 930 030 2180 Start 3hr. hold 85.5 100 2185 Bled to 2175 86 130 2175 86 200 2180 86 230 2185 Bled to 2175 86.5						
630 2180 83.9 700 2185 Bled to 2175 84 730 2175 84 800 2180 84 830 2185 Bled to 2175 84 900 2185 Bled to 2175 85 930 2180 85 85 000 2185 Bled to 2175 85 030 2180 Start 3hr. hold 85.5 5 100 2185 Bled to 2175 86 130 2175 86 86 200 2180 86 86 230 2185 Bled to 2175 86.5 Comments:	0000 0100					
700	, , , , , , , , , , , , , , , , , , , 					
730 2175 84 800 2180 84 830 2185 Bled to 2175 84 900 2185 Bled to 2175 85 930 2180 85 000 2185 Bled to 2175 85 030 2180 Start 3hr. hold 85.5 100 2185 Bled to 2175 86 130 2175 86 86 200 2180 86 86 230 2185 Bled to 2175 86.5 Comments:					- ,	
800 2180 84 830 2185 Bled to 2175 84 900 2185 Bled to 2175 85 930 2180 85 000 2185 Bled to 2175 85 030 2180 Start 3hr. hold 85.5 100 2185 Bled to 2175 86 130 2175 86 200 2180 86 230 2185 Bled to 2175 86.5 Comments:						
830 2185 Bled to 2175 84 900 2185 Bled to 2175 85 930 2180 85 000 2185 Bled to 2175 85 030 2180 Start 3hr. hold 85.5 100 2185 Bled to 2175 86 200 2180 86 230 2185 Bled to 2175 86.5 Comments:						
900 2185 Bled to 2175 85 930 2180 85 000 2185 Bled to 2175 85 030 2180 Start 3hr. hold 85.5 100 2185 Bled to 2175 86 130 2175 86 200 2180 86 230 2185 Bled to 2175 86.5 Comments:						
930						
000 2185 Bled to 2175 85 030 2180 Start 3hr. hold 85.5 100 2185 Bled to 2175 86 130 2175 86 200 2180 86 230 2185 Bled to 2175 86.5 Comments:						
100 2185 Bled to 2175 86 130 2175 86 200 2180 86 230 2185 Bled to 2175 86.5 Comments:						
130 2175 86 200 2180 86 230 2185 Bled to 2175 86.5	1030 2180 Start :	3hr. hold 85.5				
130 2175 86 200 2180 86 230 2185 Bled to 2175 86.5	1100 2185 Bled	to 2175 86				
200 2180 86						
Comments:	1200 2180					
	1 <u>230 2185 Bled</u>	to 2175 <u>86.5</u>				
DATE OF TORING	Comments:					
(/ 1/ oni	- An	\leftarrow			1 1 .	1
TETCO Representative: Law D Huttur	TETCO Representative:	Januar C	Contractor Rep	oresentative: Z	and DHit	w
Recorders Last Tested: 5-25-84 Deadweight Serial No.: 12793	+				793	

CALIBRATION CERTIFICATE

MAKE	Farton	SERIAL NUMBER 2#24-30179
TEMPERATURE R	ANGE 0-150F	
DATE OF CALIBRA		CALIBRATED TO MANUFACTURER'S SPECIFICATIONS INSPECTOR



RTE. 1, BOX 430 — HOUMA, LA 70360 HWY. 90 WEST TELEPHONE: BUS. 504/876-1695

BEST AVAILABLE COPY

CALIBRATION CERTIFICATE

Chandler

____SERIAL NUMBER___

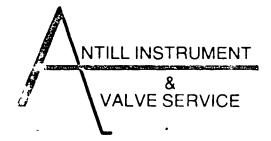
SF#1

CALIBRATED TO MANUFACTURER'S SPECIFICATIONS

DATE OF CALIBRATION Yay 25, 1004

This is to certify that this instrument has been inspected and tested against Préssure Standard_

traceable to the National Bureau of Standards, traceability reference

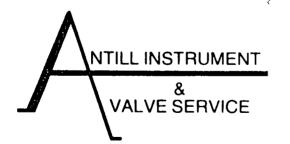


RTE 1 BOX 430 -- HOUMA, LA 70360 HWY. 90 WEST 1ELEPHONE: BUS. 504/876-1695

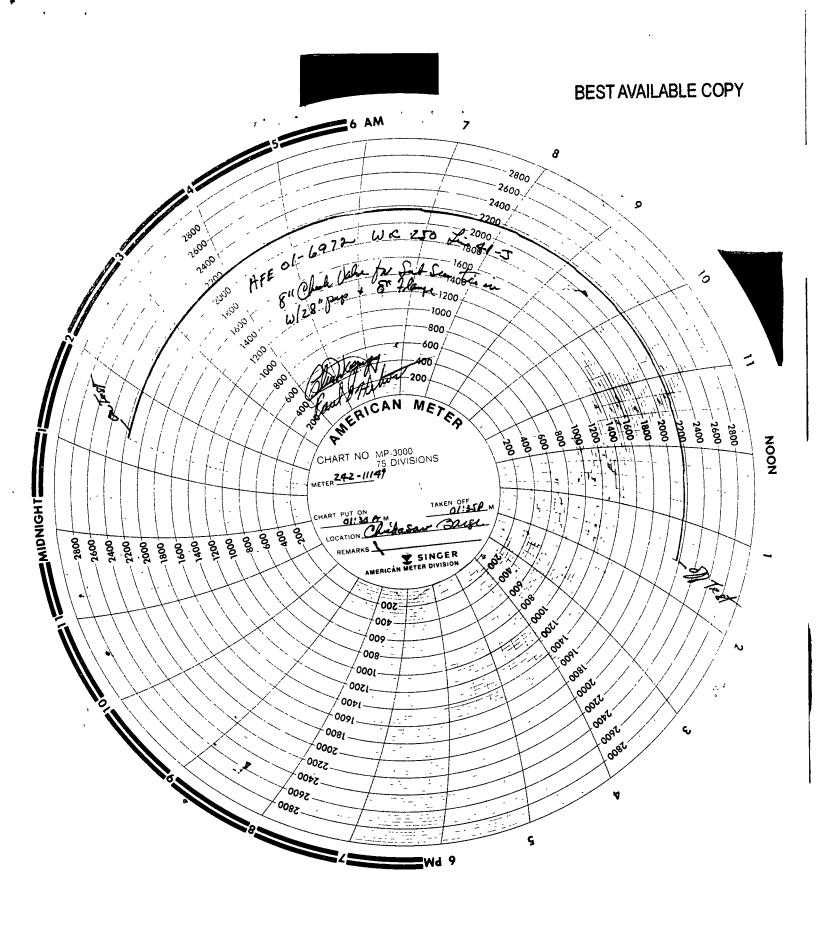
CALIBRATION CERTIFICATE

SF#8

MAKE	Earton	_SERIAL NUMBER 242-11149
PRESSURE RANG	GE 0-3,000nsi	_CALIBRATED TO MANUFACTURER'S SPECIFICATIONS
DATE OF CALIBRA	ATION May 25, 1984	INSPECTOR John Autill,
This is to certify th	at this instrument has been inspected a	and tested against Pressure Standard Chandler
Fngineering	S/N 18187 traceable	to the National Bureau of Standards, traceability reference
	P-7223	



RTE. 1, BOX 430 — HOUMA, LA 70360 HWY. 90 WEST TELEPHONE: BUS. 504/876-1695



TEXAS (

Transmission Corporation

Pre Test

Line Descripti	ion: &	# 41 -	<u> ブ</u>	ω .	@ 250		
Section Teste	d: From:	8"Chul	n Valu	~ W/Z	8" pup &	8" Hang	
					·		
Size of Pipe: ₋	<u> </u>	.D. x <u>500</u>	W.T. × G	rade <u>B</u>	Manufacture	er:	
Pressure Unit	No.:	Gallo	ons per Strok	e:	Fill Uni	t No.:	
Pressure Unit	Location:			Water S	Source:		
Time and Dat	e Test Started:	O/:30 PM) 5-26-84	_ Test Pressu	م :re (Maximum)	71H 2160 2185	PSIG
Time and Dat	e Test Ended:_	13:35 PM	5-26-84	_ Stroke-Pre	ssure Plot: Yes _	No _	···
Section Accep	oted	Secti	on Leaking		Section Rup	tured	
		DEADWEI	GHT RECOR	DED READI	ING (PSIG)		
Date: <u>5</u> 2	16 84						
	•	STROKES	TEMP.	TIME	PRESSURE	STROKES	TEMP.
AM PM				AM PM			
<u> </u>	2175 (on Test	80	1300	21370 2173		86.5
3200	2178	· · · · · · · · · · · · · · · · · · ·	<u> </u>	1330 1335	2178	SEG TOUT	
023 <i>0</i> 0360 _	2178		82.5		2110		
<u>6:330</u> _	2177		82.5				
<u>0400 </u>	2177 2177		\$2.5°				
050	2177		82.5				
<u>0530 - 2</u>	2170		<u>33.5</u>				
<u>0600 </u>	2180		<u>\$3.5</u> \$3.9				
0700	2187 4555		84				
0)30	2175		34				
<u> </u>	2180 2185 NLEU		8.4				
0900 2	2183- 07-60.		84				
0930	2150		5.5				
1000 3	2172 05 70		85				
1030 -	2/50 K	-3 <u>fact</u>	35.5				
<u>//00</u> //30	2175	-3 Hr.	<u>86</u>				
1200	2130	Help	76				
1230	FO 2173		96.5				
Comments:			· · · · · · · · · · · · · · · · · · ·				
	7	7				Denl	1)
TETCO Repre	esentative	City		Contractor Re	epresentative: 🏄	Well D'Itel	w
Recorders Las	st Tested:	25-8.	7	Deadweight	Serial No.: 2	-793	
Tost Contrast	Thita	- fe					

PRE-TEST REPORT

Subsea Tie-in Fabrication
ORK ORDER NO: _AFE-01-6972
Tonkawa
WALL THICKNESS:
ECTION PLOTTED: NO
ATE TEST STARTED: 6-22-84
ATE ACCEPTED: 6-22-84
IINIMUM PRESSURE: 2160
ANUFACTURER:
INIMUM O.D. STRESS:
L.M. CALVERT EDG EST ENGINEER: L. M. Calvert

TEXAS (

Transmission Corporation

Line Description	n: <u>Sub-Sea</u>	Tie-in Fa	bricatio	n WC 253	3 AFE 6972		
Section Tested:	From: _Sp	ool Piece	add on	To:			
Test Section No).;			Length:			
Size of Pipe:	8" O.D). x <u>. 500</u>	_ W.T. x Gra	ade <u>B</u>	Manufacturer	:_USS	
Pressure Unit N	o.:	Gallon	s per Stroke	·	Fill Unit	No.:	
Pressure Unit Lo	ocation: <u>D/B</u>	Tonkawa AM		Water So	urce: <u>Fresh</u>	<u></u>	
		0540 PM 6 AM			e (Maximum): <u>_2</u>		
Time and Date	Test Ended:	1740 PM 6	/22/84	Stroke-Press	sure Plot: Yes	No <u>x</u>	·
Section Accepte	ed <u>Yes</u>	Section	Leaking		Section Rupto	ıred	
		DEADWEIGH	HT RECORD	ED READIN	IG (PSIG)		
Date: 06 2	2 84						
AM	ESSURE	STROKES	TEMP. Out-In	TIME AM	PRESSURE	STROKES	TEMP.
0600 2 0625 2 0630 2 0700 2 0730 2 0800 2 0830 2 0990 2 0910 2 0930 2 0935 2 0940 2 0955 2 1005 2 1015 2 1030 2 1035 2 1055 2	176 165 181 170 166 169 175	Repressure	80/99 80/99 80/99 80/100 80/104 80/108 81/110 81/113 82/114 90/115 90/115 90/115 90/115 96/116 98/116 98/116 98/116 98/116 98/116	PM 1112 1117 1125 1130 1138 1142 1153 1200 1215 1225 1236 1246 1253 1301 1313 1322 1328 1340 1348 1400 1409 1418 1426	2162 2166 2165 2165 2166 2160 2163 2160 2161 2161 2165 2167 2162 2165 2169 2163 2162 2165 2164 2167 2163 2163 2163	Bled Down	103/11 104/12 101/12 101/12 101/12 100/12 100/12 100/12 100/12 109/12 109/12 110/12 111/12 110/12 110/12 110/12 110/12 110/12
Recorders Last	entative: 2/25	1. CALVEZ 5/84 & 5/31		ontractor Rep Deadweight S	presentative:Ja: derial No.:127	mes Phillip 93	<u> </u>
Test Contractor	<u>: Santa Fe</u>	Construct	ion Co.				



Transmission Corporation

Line Description: Sub-Se	a Tie-in Fa	bricatio	n WC 25	3 AFE 6972		
Section Tested: From: S	pool Piece	add on	То	o:		
Test Section No.:			Length:	:		
Size of Pipe:8"O.	D. x500	_ W.T. x Gra	ide B	Manufacture	er: <u>USS</u>	
Pressure Unit No.:	Gallon	s per Stroke:	: 	Fill Uni	t No.:	
Pressure Unit Location: D/	B Tonkawa		Water S	Source: Fresh		
Time and Date Test Started:	0540 PM 6	/22/84	Test Pressu	ure (Maximum):_	2185+0 -25	PSIG
Time and Date Test Ended:_		/22/84	Stroke-Pre	ssure Plot: Yes _	No _≥	X
Section Accepted Ye	SSection	Leaking		Section Rup	tured	
	DEADWEIGH	T RECORD	ED READI	ING (PSIG)		
Date: 6 22 84						
TIME PRESSURE AM PM	STROKES	TEMP.	TIME AM PM	PRESSURE	STROKES	TEMP.
1436 2164	Bled Down	115/124				
1445 2161	Bled Down					
1453 2162	Bled Down					
<u> 1503</u> <u> 2163</u> _	Bled Down					
<u>1512</u> <u>2164</u>	Bled Down					
1522 <u>2165</u> 1532 <u>2161</u>	Bled Down Bled Down					
1544 2164	Bled Down	07/104				
1555 2161	Bled Down					
1607 2165	Bled Down					
1616 2166	Bled Down					
<u> 1629 </u>	Bled Down					
<u> 1658 </u>	<u>Bled D</u> own	91/122				
<u> 1715 </u>	<u>Bled D</u> own					
<u> 1726 </u>	Bled Down					
<u>1730</u> <u>2183</u>		90/121				
<u>1735</u> <u>2184</u>		90/121				
<u>1740</u> <u>Bleed off</u>	test					
						
						
						
Comments:						
TETCO Representative:						ip
Recorders Last Tested: 5/2						
Test Contractor: Santa	Fe Construc	tion Co.				

CALIBRATION CERTIFICATE

SF#1

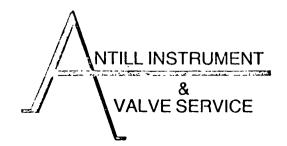
MAKE	<u>Chandler</u>	SERIAL NUMBER 12793
	50-3,000nsi	2 1
OATE OF CALIBRATIO	ON May 25, 1084	INSPECTOR John Autuf
		etcd and tested against Pressure Standard_Chanfier
Tngineering S/	N	able to the National Bureau of Standards, traceability reference
	P-722	23

NTILL INSTRUMENT
VALVE SERVICE

RTE. 1, BOX 430 — HOUMA, LA 70360 HWY. 90 WEST TELEPHONE: BUS. 504/876-1695

CALIBRATION CERTIFICATE

SF#9				
.IAKE	Parton		SERIAL NUMBER	265-10807
rapenAn	ulepange	0-150F	CALIBRATED TO MANUFACT	URER'S SPECIFICATIONS
`\TE OF C/	ALIERATION	May 25, 1984	INSPECTOR JULY	Articl!



RTE. 1, BOX 430 — HOUMA, LA 70360 HWY. 90 WEST TELEPHONE: BUS, 504/876-1535

10

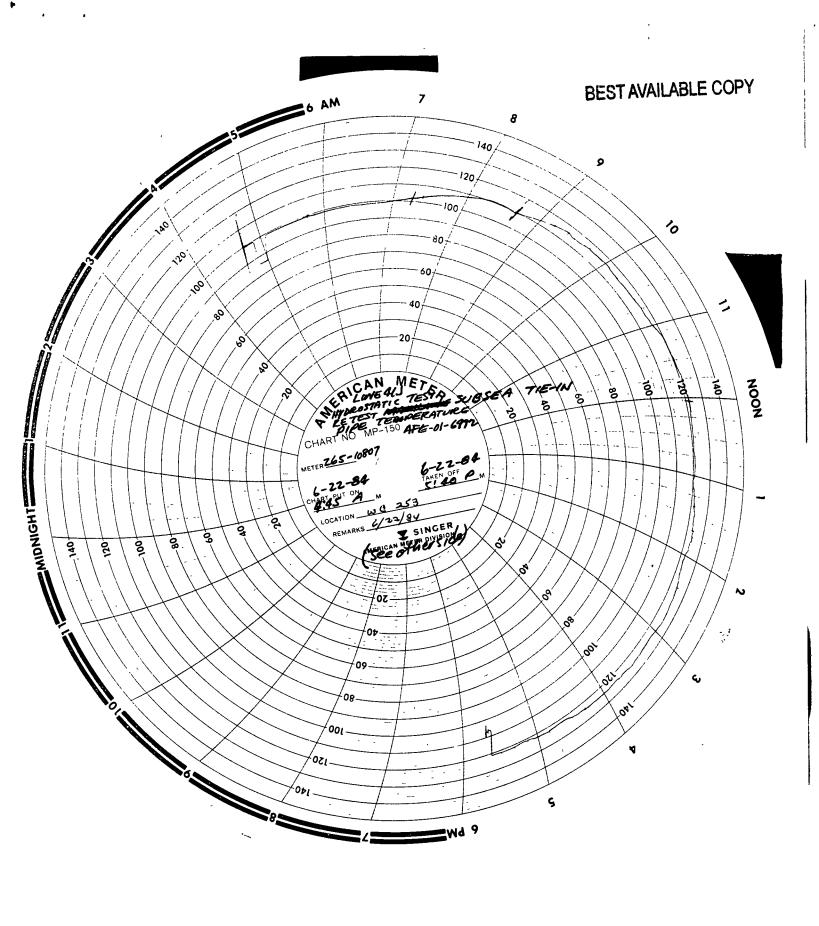
CALIBRATION CERTIFICATE

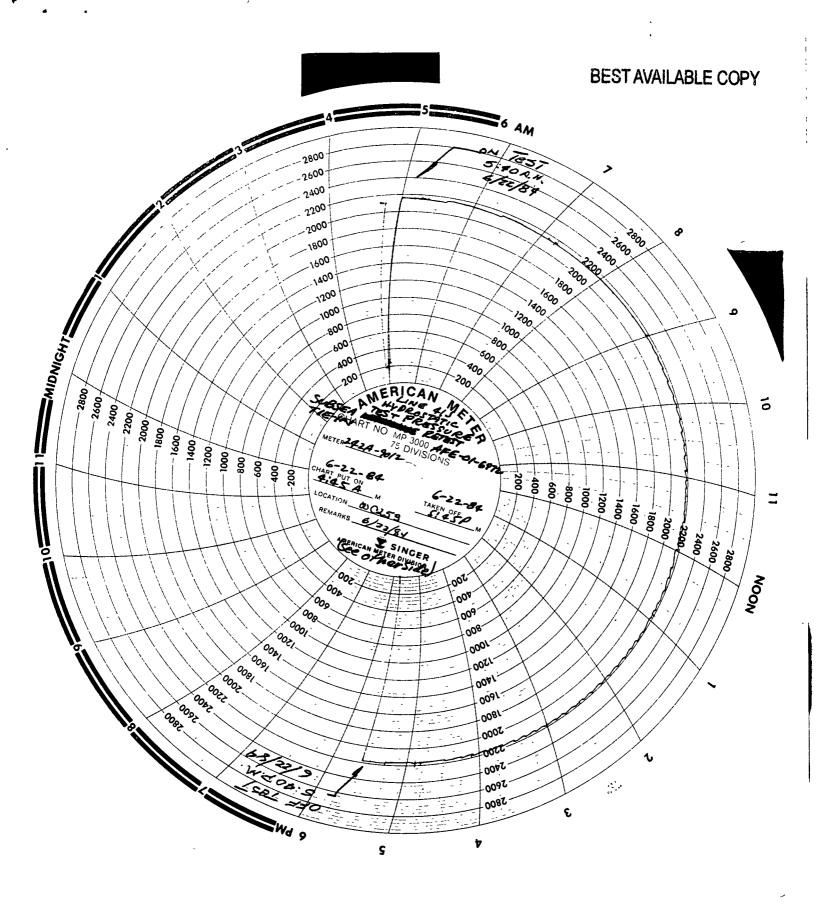
JVKE	Parton	SERIAL NUMBER 24 27 - 901 2
PLEGSURE RAUGE	0~3,000psi	CALIBRATED TO MANUFACTURER'S SPECIFIC ATIONS
DATE OF CALIZIPATION	May 31, 1984	_ IMERECTOR Johnny Cation
this is to certify that this	instrument has been inspecte	ed and tested against Prossure Standard Chantler
Forineering S/M	20201	ele to the National Bureau of Standards, traceability reference
	P-7223	

NTILL INSTRUMENT

VALVE SERVICE

RTE. 1, BOX 430 — HOUMA, LA 70360 HWY. 90 WEST TELEPHONE: BUS. 504/876-1695







Transmission Corporation

Line Description: Me	eter Pipin	ig 697	72	· · · · · · · · · · · · · · · · · · ·			
Section Tested: Fro	m:		· · · · · · · · · · · · · · · · · · ·	To	o:		
Test Section No.:							
Size of Pipe: 2", 6",	8",O.D. x	500	W.T. x G	radeB	Manufacture	r: J&L Ste	el
Pressure Unit No.:		Gallor	ns per Strok	e:	Fill Unit	t No.:	
Pressure Unit Location	n:	AM	····	Water S	Source:		
Time and Date Test St	tarted: 1:05	PM 5	5/26/84	_ Test Pressu	ure (Maximum):	2182	PSIG
Time and Date Test E	nded: 1:15			_ Stroke-Pre	ssure Plot: Yes _	No	
Section Accepted	X	Sectio	n Leaking_		Section Rupt	ured	
	DE	ADWEIG	HT RECOR	DED READ	ING (PSIG)		
Date: 5 26 8	34_						
TIME PRESSU	RE STRO	OKES	TEMP.	TIME AM	PRESSURE	STROKES	TEMP.
1839 PM 2160-	2177 Repr			PM	•		
	2177 Repr 2179 Repr						
	2179 Repr						
0915 2178	Read						
	-2177 Repr						
0945 2160-	<u>21</u> 80 Repr	<u>ess</u> ure				·	
	<u>-21</u> 81 <u>Repr</u>						
1015 2170	Read						
	2181 Repr						
	-2181 <u>Repr</u> -2181 <u>Repr</u>						
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$							
	-2181 Repr				***************************************		
	2181 Repr						
	-2181 Repr						
1215 2173	Read	ling					
	<u>-21</u> 80 Repr						
	<u>-21</u> 82 <u>Repr</u>						
01152160_		-					
							
							
Comments:		 				· · · · · · · · · · · · · · · · · · ·	
TETCO Representativ	e: _Malcol	m Cran	е (Contractor Re	epresentative: Pa	ul Blancha	rd
Recorders Last Tested							
Test Contractor: San	nta Fe Co	nstruc	tion Co.				

TEY 5 (

Transmission Corporation

BEST AVAILABLE COPY

Line Descri	ption:S4E	3-SEM TIE	-IN FABR	CONTION	WC 253	AFE	57/2
Section Tes	sted: From:	Spool Pie	SE ADO	<i>∞</i>	o:	-	
Test Sectio	n No.:			Length	;		
Size of Pipe	e: 8″ 0).D. x500	W.T. x G	rade <u> </u>	Manufactur	er: <u>USS</u>	
Pressure Ur	nit No.:	Gallo	ons per Strok	e:	Fill Uni	t No.:	
					Source: FREST		
Time and D	ate Test Started	: 0516 PM	6/22/84	Test Pressu	ure (Maximum): ౖ	7/85 +0	PSIG
Time and D	ate Test Ended:	1740 PM 4	1/22/84	Stroke-Pre	ssure Plot: Yes _	No _	X
Section AcceptedSection Leaking				Section Rup	tured		
	•		SHT RECOR				
Date: 6	22 84						
TIME AM	PRESSURE	STROKES	TEMP.		PRESSURE	STROKES	TEMP.
546 PM	2/85	PRESCULE	80° 94°	1117PH	2146	BLED DOWN	103 119
0600	2176	****	80° 99°		2145	··· ··	1040 1200
<u>0635</u> 0630	_2/65 _2/8/_	Re Passaure	86° 99°	<u> 1130</u> 1138	2165 2166	<u> </u>	1 <u>04° /21°</u>
0700		/SE FASSSORE	80° 100°	1142	2/40	6. 68	1010 1210
0730	2166	 	80° 104°	1153	2/63	., 4	103° 121°
0800	2169		86 108°	1200	2160	40 61	100' 1210
0830	2175		81° 110°	1215	2161	<u> </u>	100 1210
0900	2/80		81-1130	1225		H tr	100 /210
0910	2/77	BlED Down				· ·	1000/210
0920	2174		90° 114°	1046		W	1100 1250
0930	2180		90 115	1253		1, 1,	109°/21
0935	2170	Blei Down	90° 115°	1301	2/65	· · · · · · · · · · · · · · · · · · ·	105° 130
<u>0940</u> 0955	2165		96 113°	1313 1322	2169 2163	11 11	113 122
1005	_2165_	·· ··	940 116	1328	2/62	" A	110 122
1015	2165	1) N	96'16	1340	2165	ه در خود	111 /23
10.25	2/65	2- 1/	98-116-	1348	2164	R 14	1090124
1030	2/80		98' ill"	1400	2/67	11 11	110 122
1035	2165	BLED DOWN	980/16	1409	2163	11 11	110-122
1045	2160		98°116°	1418	a/63	10 4	116° 124
1055	2165		100 110	1426	2163	16 11	1K. 134
1105	2/64	<u> </u>	100 1/80	1436	2164	ei it	1150 134
1112	2/62	" 1.	1000 1190	1445	2161	N d	1140 125
Comments					PAG	Elofa	<u></u>
TETCO Re	presentative:		C	Contractor Re	epresentative:	James ?	Rillia
				eadweight Serial No.:			
Test Contra	actor:						

TEX! 5 (i) EAS ERN

Transmission Corporation

BEST AVAILABLE COPY

est Section No.:Oze of Pipe:O. essure Unit No.: essure Unit Location: me and Date Test Started: me and Date Test Ended: ction Accepted	D. x Gallo	W.T. x Gr	ade : Water S	Manufacture	er: t No.:	
essure Unit No.:essure Unit Location: me and Date Test Started: me and Date Test Ended: _	AM PM AM PM	ons per Stroke	: Water S	Fill Uni	t No.:	
essure Unit Location: me and Date Test Started: me and Date Test Ended:_	AM PM AM PM		Water S	Source:		
me and Date Test Started: me and Date Test Ended:_	AM PM AM PM				 	
me and Date Test Ended:_	PM AM PM		Test Pressu	(NA		
	PM			Test Pressure (Maximum):		
ction Accepted	Section		Stroke-Pressure Plot: Yes No			
	Section	Section LeakingSection Ruptured				
	DEADWEIG	SHT RECORE	DED READ	ING (PSIG)		
ate: 6 22 84						
IME PRESSURE	STROKES	TEMP.	TIME	PRESSURE	STROKES	ТЕМР.
PM <u>453</u>	Blad Down	113° 125°	<u>PM</u>			
5/2 2/64	14 17	109° 125°				
532 <u>2166</u> 532 <u>2161</u>	14 11	110°124°				
544 <u>3/64</u> 555 <u>2161</u>	11 11	92° 124°				
2165	h 11	89° /24°				
616 <u>2166</u> 629 2164	H H	89° 124°			 	
58 3167	4 11	91° /22°				
215 2179	<i>1• #</i>	910 1210				
726 2180	** **	96 1220				
<u>230</u> <u>2183</u> 235 2184		2010				
135 <u>2184</u> 240 Bleedor	CE THET	90'1710				

omments:					0	
	10			•	465 2 et	
ETCO Representative		C	ontractor Re	epresentative:	ames Phi	llys
ecorders Last Tested: 4	25/84 \$ 5	31/84	Deadweight	Serial No.:	793	

PRE-TEST REPORT

LINE NAME: 41J - W. Cameron	253-Meter Skid		
JOB NO:	WORK ORDER NO: AFE-01-6972		
LOCATION OF TEST: Santa Fe Yard	·		
LENGTH: O.D.:	WALL THICKNESS:		
PRE-TEST NO.: 5	SECTION PLOTTED: No		
TIME TEST STARTED: 1:05 p.m.	DATE TEST STARTED: 5-26-84		
TIME ACCEPTED: 1:15 a.m.	DATE ACCEPTED: 5-27-84		
MAXIMUM PRESSURE: 2185	MINIMUM PRESSURE: 2160		
SPEC. MIN. YIELD:	MANUFACTURER:		
MAXIMUM O.D. STRESS:	MINIMUM O.D. STRESS:		
DEAD WEIGHTS: 11074	. TEST ENGINEER: Malcolm Crane		
REMARKS:			
•			

TEXAS **⊚** EASTERN

Transmission Corporation

FIELD PRESSURE & TEST REPORT

Line Description: Meter Piping 697	2		****		
Section Tested: From:		т	o:		
Test Section No.:		Length	:		
Size of Pipe: 2", 6", 8", O.D. x .500	W.T. x G	rade B	Manufacturer:	J&L Ste	el
Pressure Unit No.: Gallo					
Pressure Unit Location:		Water S	Source: City of	Houma	
Time and Date Test Started: 1:05 PM AM	5/26/84 Test Pressure (Maximum): 2182 PSI				PSIG
	5/27/84 Stroke-Pressure Plot: YesNo				
Section Accepted X Section	on Leaking		Section Ruptu	red	
DEADWEI	GHT RECOR	DED READ	ING (PSIG)		
Date: 5 26 84					
TIME PRESSURE STROKES AM	TEMP. Outside	TIME AM	PRESSURE	STROKES	TEMP.
\\\ \begin{array}{cccccccccccccccccccccccccccccccccccc	88 88/92 88 88/93 88/94 88/94 88/94 88 88/94 88 88/94 88 88/94 88 88/94	0507 0515 0519 0532 0542 0554 0605 0615Read	2160-2177 2160-2177 2160-2177 2164 2160-2175 2160-2175 2160-2177 2160-2176 2160-2176 2160-2177 2160-2177 2161-2178 2160-2178 2160-2178 2160-2178 2160-2178 2160-2179 2160-2179 2160-2179 2160-2179 2160-2179 2160-2179 2160-2179	Repressuration Repres	re 83 re 82 re 82 re 82 re 82 re 82 re 82 re 81 81/88 re 81 re 81 re 80 re 80 re 80 re 80
TETCO Representative: Malcolm Cran Recorders Last Tested: 5/18/84			epresentative: <u>Pau</u> Serial No.: <u>1107</u>		rd
•					

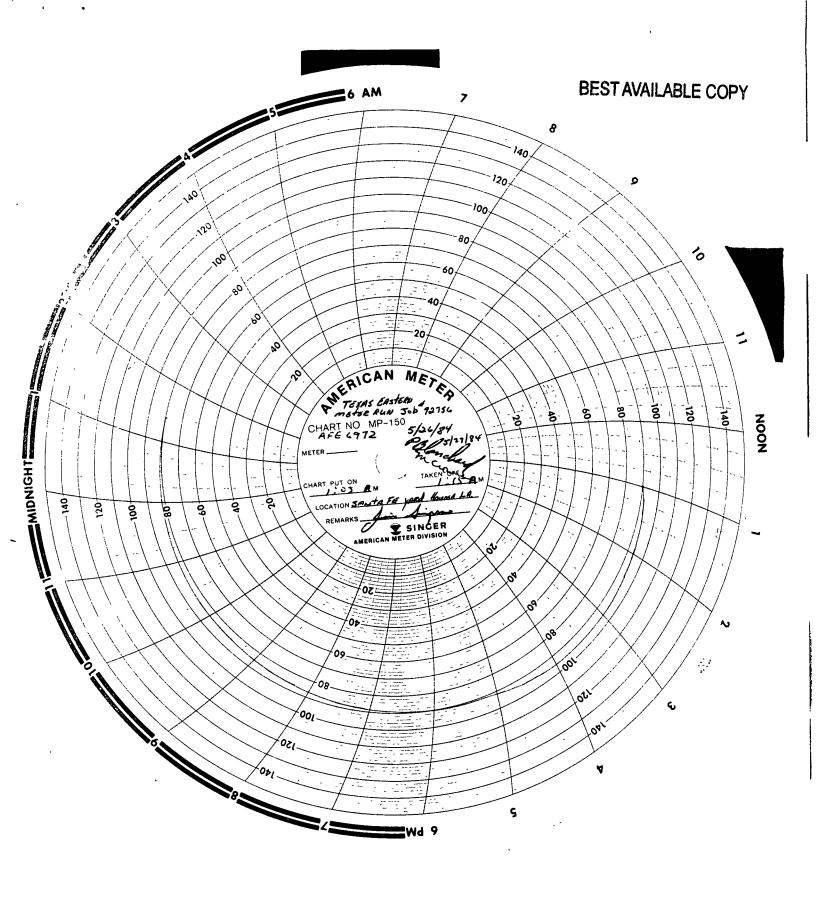
Test Contractor: Santa Fe Construction Co.

CALIBRATION CERTIFICATE

Chandlan in the state of the st	SERIAL NUMBER 11074
MAKE Chandler	The state of the s
PRESSURE RANGE 50-3,000psi	
DATE OF CALIBRATION May 18, 1984	INSPECTOR_JANUARY Justill
This is to certify that this instrument has been inspected	ed and tested against Pressure Standard Chandler
Engineering S/N 19134 traceat	ble to the National Bureau of Standards, traceability reference
P=7223	
	BEST AVAILABLE COPY
NTILL INSTRUMENT	
2	RTE. 1, BOX 430.—HOUMA: LA 70360 HWY:90 WEST
VALVE SERVICE	TELEPHONE: BUS.,504/876-1695
F#10	
CALIBRATIO	N CERTIFICATE
MAKEBarton	
And the state of t	SERIAL NUMBER 242A-9012
	CALIBRATED TO MANUFACTURER'S SPECIFICATIONS
DATE OF CALIBRATION May 18, 1984	INSPECTOR Johnny Cattle
the first time of the first time of the state of the stat	ed and tested against Pressure Standard Chandler
Engineering S/N 19134 traceab	ple to the National Bureau of Standards, traceability reference
P-722	3
NTILL INSTRUMENT	
&	RTE. 1, BOX 430 — HOUMA, LA 70360
	HWY. 90 WEST
#3	
CALIBRATIO	N CERTIFICATE
CALIBRATIO	N CERTIFICATE
MAKENolte	N CERTIFICATE SERIAL NUMBER 1127 2100
MAKENolte TEMPERATURE RANGE0-150F	SERIAL NUMBER 11272100 CALIBRATED TO MANUFACTURER'S SPECIFICATION
MAKE	

NTILL INSTRUMENT · ·

RTE. 1, BOX 430 — HOUMA, LA 7036 HWY, 90 WEST TELEPHONE; BUS, 504/876-1695



TEXAS () EASTERN

Transmission Corporation

		•	FIELD	PRESSUR	E & TEST RE	PORT BE	ST AVAILABLI	E COPY	
· ' I	Line Descri	ption: Meter	2 0.001	N9 6	972				
5	Section Tes	ted: From:	<u> </u>		То	o:			
-	Test Section	n No.:			Length:				
	Test Section No.: Length: Length: Size of Pipe: 2"6",8",10"O.D. x . 500 W.T. x Grade B Manufacturer: J. L. Steel								
	Pressure Unit No.: Gallons per Stroke: Fill Unit No.:								
F	Pressure Un	nit Location:	Source: C. L.	of Hour	<u>.a.</u>				
-	Pressure Unit Location: Water Source: C. ty of Houna Time and Date Test Started: 1:05 PM 5/26/84 Test Pressure (Maximum): 2182 PSIG Time and Date Test Ended: 1:15 PM 5/27/84 Stroke-Pressure Plot: Yes No								
8	Section Acc	cepted	Section	on Leaking		Section Rup	tured		
		By B.11			RDED READ				
ı	Date: <u>5</u>	26 84							
	TIME AM	PRESSURE	STROKES out side Temp	TEMP.	AM	PRESSURE	STROKES out side Temp	ТЕМР.	
2.0. R. B.O. R. B.O. B.O. B.O. B.O. B.O. B.	PMD 1.05 1.13 1.15 1.22 1.30 1.37 1.45 1.52 2.00 2.01 2.09 2.15 2.18 2.25 2.35 2.144 2.58 3.12 3.15 2.18 2.15 2.18 2.25 2.35 2.147 2.58 3.12 3.15 2.18	2/62 2/80-2/60 2/80-2/60 2/80-2/60 2/80-2/60 2/180-2/60 2/78-2/60 2/78-2/60 2/78-2/60 2/78-2/60 2/78-2/60 2/78-2/60 2/78-2/60 2/78-2/60 2/78-2/60 2/78-2/60 2/78-2/60 2/78-2/60 2/60-2/70	89° 88° 88° 88° 88° 88° 88° 88°	90° 91° 92° 93° 94° 94° 95°	RP4:49 RP5:58 RP5:07 R5:15 RP5:19 RP5:32 RP5:42	2/60-2/72 2/60-2/77 2/60-2/77 2/60-2/77 2/60-2/77 2/60-2/77 2/60-2/77 2/60-2/77 2/60-2/77 2/60-2/77 2/60-2/77 2/60-2/77 2/60-2/78 2/60-2/78 2/60-2/78 2/60-2/78 2/60-2/78 2/60-2/78 2/60-2/78 2/60-2/78 2/60-2/78	85° 85° 83° 83° 83° 83° 83° 83° 83° 83° 81° 81° 81° 81° 81° 81° 82° 80° 80°	90'	
(Comments:	3:23 Cloud	Ly (R-REA	dira)(B.O.	-BLEED off	(R.P REPRESS	ure		
		· · · · · · · · · · · · · · · · · · ·	<u>'</u>				1 /1 /1	1	
•	TETCO Re		Billys		Contractor Re	epresentative:		charf	
-	Recorders I	Last Tested:	nog 17, 19	84	_ Deadweight	Serial No.:	11074		
•	Test Contractor: Sonta de								

Test Contractor:__

PAGE(2)

	/ -		/ / (-)	77		BEST AVAILAE	ILE COF
Line Descri	ption: <u>Meye</u>	م عروم الم	14 67	[2			
Section Tes	ted: From:			T	o:		
Test Section	n No.:	· · · · · · · · · · · · · · · · · · ·		Length	•		
Size of Pipe	2",6",8",10").D. x১ ত ত	W.T. x G	rade <u>B</u>	Manufactur	er: <u>J = ' </u>	teel.
					Fill Un		
Proceure Lin	it Location:			Water 9	Source:		
Time and D	ate Test Started	/:05 (PM)	5/26/8	Y Test Press	ure (Maximum):	2182	PSI
Time and D	ate Test Ended:	1:15 PM	5/27/84	Stroke-Pre	essure Plot: Yes _	No _	
Section Acc	rented \	Section	on Leaking		Section Rup	tured	
Jection Act	By B.					tureu	
		DEADWEI	SHT RECOR	DED READ	ING (PSIG)		
Date:	26 84						
TIME AM	PRESSURE	STROKES outside Temp	TEMP.	TIME AM	PRESSURE	STROKES	TEM
PM)	£176	80°	87°	PM			
P 8:26	2160-2179	790					
128:39	2160-2177	790					
P.8:50	2/60-2/77	790					
	2160-2179	79°					
	2160-2179	790					
R. <u>9:15</u>		<u>79°</u>	85°				
P. 9:30	2160-2177	790					
P. 9:45	2160-2180	790			· · · · · · · · · · · · · · · · · · ·		
P. 10:05	2160-2181	<u> 78°</u>	0/18				
e. <u>10'15</u>	2170	78"	840				
P. 10:23	2/60-218/	78 4					
P 10.43	2160-2181	<u>78°</u>					
P 11:05	2160-2181	770	83°				
R. 11:15 R.11:25	2120	720	<u> 85</u>				
P.11:45	2160-2181	76°					
P. 12:06 AM	2160-2181	760			····		
R.12:15 AM	2/73	76°	910				
CP.12: 30 Am	2160-2180	76°	-3				
	2160-2182	76°			·		
R. 1:15 AM	2/60	75°	800				
							
Comments					 	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
Comments:					 		
		3v Billy :	F.		epresentative:	Dall	1

PRE-TEST REPORT

Check Valve

LINE NAME: 41J-West Cameron 25	33-Meter Skid-Retest for 8" Wheatley
JOB NO:	WORK ORDER NO: AFE - 01-6972
LOCATION OF TEST: Santa Fe Yard	· · · · · · · · · · · · · · · · · · ·
LENGTH: O.D.:	WALL THICKNESS:
PRE-TEST NO.: 5R	SECTION PLOTTED: No.
TIME TEST STARTED: 12:55 p.m.	DATE TEST STARTED: 5-31-84
TIME ACCEPTED: 1:00 a.m.	DATE ACCEPTED: 6-1-84
MAXIMUM PRESSURE: 2185	MINIMUM PRESSURE: 2160
SPEC. MIN. YIELD:	MANUFACTURER:
MAXIMUM O.D. STRESS:	MINIMUM O.D. STRESS:
DEAD WEIGHTS: 11073	TEST ENGINEER: Malcolm Crane
REMARKS:	······································
	^

Transmission Corporation

FIELD PRESSURE & TEST REPORT

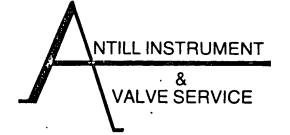
AFE-6969 LINE 40-G-3 AFE-6972 LINE 41-J AFE-6967 LINE 61

Line Description: 3-Check	Valves-	1-6" Valve	2-8"	Valves	OAD L TIME	61
Section Tested: From:			т	o:		
Test Section No.:			Length:			
Size of Pipe:O	.D. x	W.T. x Gra	ade	Manufacture	: Wheatley	Check Val
Pressure Unit No.:	Gall	ons per Stroke	:	Fill Unit	No.:	
Pressure Unit Location: Sar			Water S	Source:City	Water	·
Time and Date Test Started:	12:55 PM AM		Test Pressu	ure (Maximum):	2185	PSIG
Time and Date Test Ended:_	• • • • • • • • • • • • • • • • • • • •	6/1/84	Stroke-Pre	ssure Piot: Yes	No	<u> </u>
Section Accepted YES	Section Section	on Leaking	NO	Section Rupto	ured <u>NO</u>	
	DEADWEI	GHT RECORD	DED READ	ING (PSIG)		
Date: 6 1 84						
TIME PRESSURE	STROKES	TEMP.	TIME	PRESSURE	STROKES	TEMP.
PM 12:55 1:00 2185 1:15 2177 1:30 2171 1:45 2168 1:53 2:00 2185 2:26 2:26 2:30 2185 2:30 2181 3:00 2184 3:21 2185-2180 2189 4:00 2183 4:22 2185-2178 4:30 2179 4:30 2181 5:30 2178 5:00 2181 5:30 2182 6:00 2182 6:30 7:00 2176 7:30 2169 7:43 8:00 2180	BLEED BLEED RP	78° 78° 78° 76° 78° 78° 80° 80° 80° 80° 80° 80° 80° 79° 78° 78° 78° 74° 74° 74° 72°	PM 8:27 8:30 9:00 9:03 9:32 10:00 10:04 10:35 11:00 11:37 12:00 12:12 12:30 12:41 1:00	$\begin{array}{r} 2165-2185 \\ \hline 2185 \\ \hline 2165 \\ \hline 2165-2185 \\ \hline 2166-2185 \\ \hline 2167-2185 \\ \hline 2166 \\ \hline 2167-2185 \\ \hline 2168 \\ \hline 2168-2185 \\ \hline 2168 \\ \hline 2168-2185 \\ \hline 2165 \\ \hline 2163-2185 \\ \hline 2170 \\ \text{m} \\ \hline 2166-2185 \\ \hline 2173 \\ \hline 2167-2185 \\ \hline 2173 \\ \hline \end{array}$	RP RP RP RP RP RP	710 710 700 700 680 680 670 670 660 660 660 660 660 66
Comments: 2-8" check valves cap 8" x 8" x 8" pipe x 8" x cap 1-6" check valve cap 18" x 18" x weld cap TETCO Representative: Malcular Crant Contractor Representative: Paul Blanchard						
		MA				PRR
Recorders Last Tested: May 29, 1984 Deadweight Serial No.: 11073 Test Contractor: Santa Fe Offshore Construction Company						

3F#1

CALIBRATION CERTIFICATE

MAKE Am-erican Meter	SERIAL NUMBER PR52289
PRESSURE RANGE 0_3,000ps1	CALIBRATED-TO MANUFACTURER'S SPECIFICATIONS
DATE OF CALIBRATION May 18, 1984	INSPECTOR Johnny antill
This is to certify that this instrument has been inspect	ted and tested against Pressure Standard Chandler
-	ble to the National Bureau of Standards, traceability reference
P_72	



RTE. 1, BOX 430 — HOUMA, LA 70360 HWY. 90 WEST TELEPHONE: BUS. 504/876-1695

CALIBRATION CERTIFICATE

MAKEBar	ton .	SERIAL NUMBER	265-4731
TEMPERATURE RANGE	0-200F	CALIBRATED TO MANUFA	CTURER'S SPECIFICATIONS
· DATE OF CALIBRATION _	May 10, 1984	INSPECTOR Johns	y Antiel.

NTILL INSTRUMENT

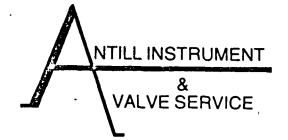
&
VALVE SERVICE

BEST AVAILABLE COPY

RTE. 1, BOX 430 — HOUMA, LA 70360 HWY. 90 WEST TELEPHONE: BUS. 504/876-1695

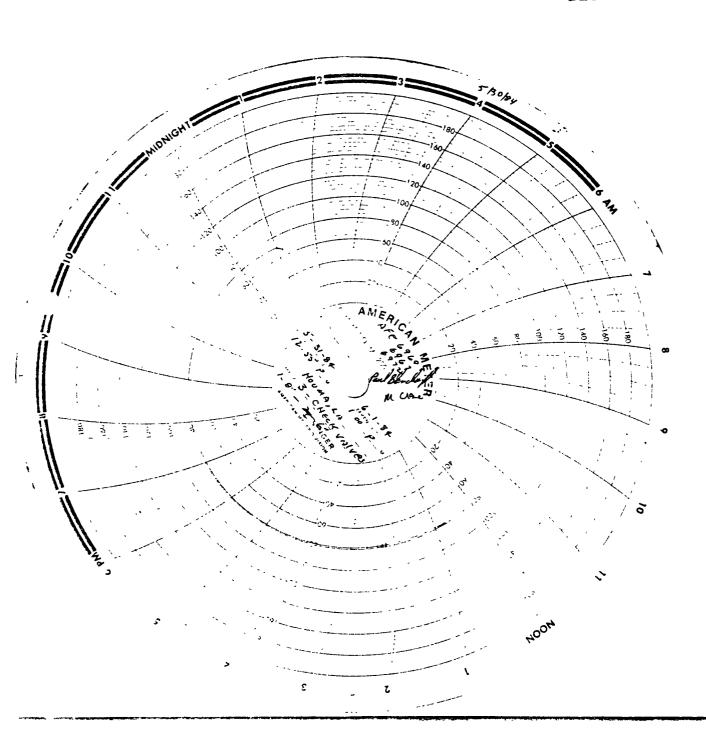
CALIBRATION CERTIFICATE

MAKE	Chandler	SERIAL NUMBER11073
PRESSURE RANGE	50-3000psi	CALIBRATED TO MANUFACTURER'S SPECIFICATIONS
DATE OF CALIBRAT	ION May 29, 1984	INSPECTOR Johnny Intill
This is to certify that	this instrument has been inspected a	and tested against Pressure Standard Chandler
Engineering S/I	17 1010 '	to the National Bureau of Standards, traceability reference
	P-7223	

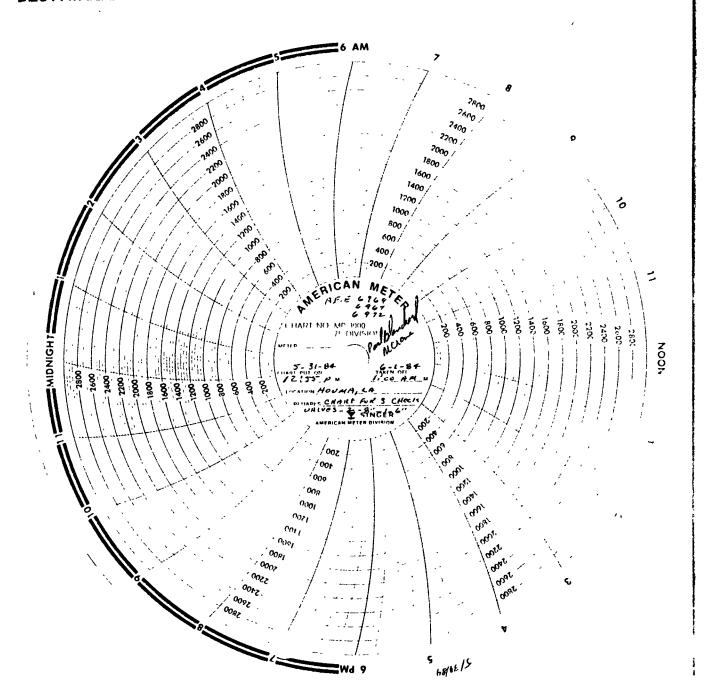


RTE. 1, BOX 430 — HOUMA, LA 70360 HWY. 90 WEST TELEPHONE: BUS. 504/876-1695

BEST AVAILABLE COPY



BEST AVAILABLE COPY



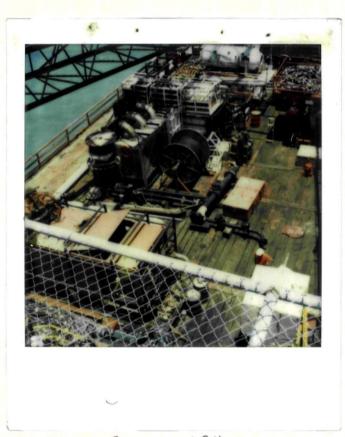
EASTERN

Transmission Corporation

FIELD PRESSURE & TEST REPORT

Section Tested: From:			т	o:		
Test Section No.:			Lenath	:		
Size of Pipe:	O.D. x	W.T. × G	irade	Manufacture	WHEATI CHECK	YALV
Pressure Unit No.:	Gal	lons per Strok	ke:	Fill Uni	t No.:	
Pressure Unit Location:	SANTA Fe	HoumA y	ARd Water S	Source: Cita	y wate	12
Time and Date Test Star	AM	=				
Time and Date Test End	ed: //os PMF	6-1-89	_ Stroke-Pre	essure Plot: Yes _	No _	
Section Accepted	sect	ion Leaking_	NO	Section Rup	turedNO_	
•	DEADWE	IGHT RECOF	RDED READ	ING (PSIG)		
Date: 6 / 89						
TIME PRESSURI		ТЕМР.	TIME AM	PRESSURE	STROKES	TEM
PM 12:53 P.M 2/85 1:00 2/85		78	8:27 8:30	2/65-2/85 2/85	RP	71
1.15 Pm 2177 1.30 2171		780	9:03	2165-2185-	-40	70
1.45 2168	R.P.	78.	9:30	2166-2185		68
2'00 <u>2/85</u> 2'26 <u>2/85-2/8</u>	b Breed	80 80	10:00		RP	<u>67</u>
2:30 2/8/ 3:00 2/84	-	80.	10:30	2/66	RR	66
3:21 3:30 2/35-2/7	2 Breed		11:00	2168	R.P.	4
4.00 2183		810	11:30	2165	·	65
<u>4:32 </u>	B/ec R	800	11:37	<u> 2163-2185</u> 2170	RP	65
5:00 2/8/		800	12:12	2/66-2/85	RP.	64
5:30 2/82 6:00 2/82		<u>80°</u>	12:41	2/73	R.P.	63
6:30 2/80		79	1:00	2/73		63
7:00 2/76 1:30 2169		78 74°				
7:43 2165-2185	RP	740				
¥.00 2190		720				
Comments: 2 - 8	"CHECKVA	AIVES CAR	7 - X - 8	1-8" PIPE 4".	AP	
1-6"	CHCCK VA			WELG CAP		
TETCO Representative:	m Crane	=	Contractor R	epresentative:	ul Blance	long
Recorders Last Tested:	MAY- 29-	84	Deadweight	t Serial No.: _//	073	
7 Test Contractor: S						

BEST AVAILABLE COPY



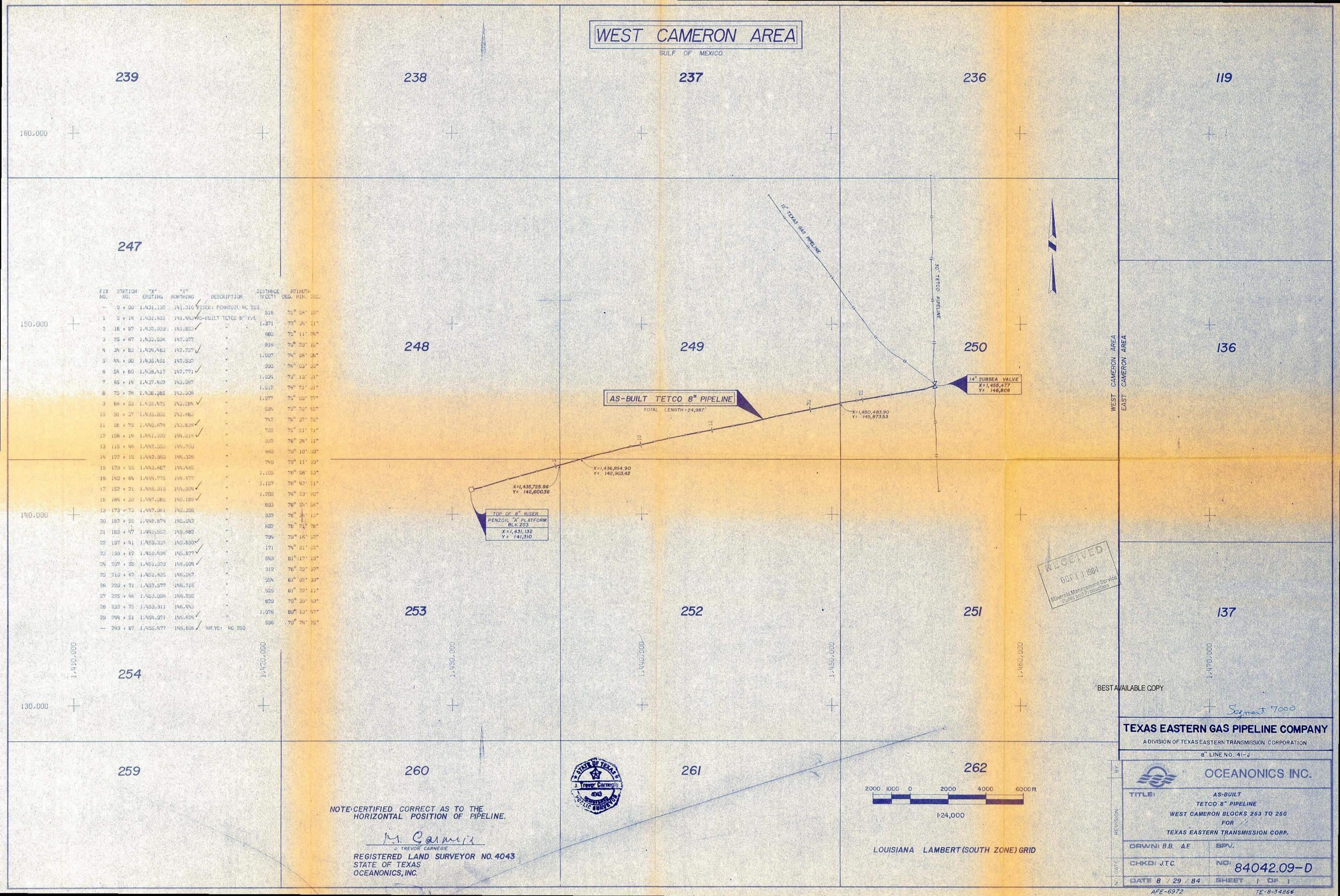
June 13, 1984

NOTIFICATION OF CONSTRUCTION

1. OCS 2000	mber <u>G 6551</u>		· .
2. Name of	company Texas Early	- Trusmissin	. Corp.
	contractor South F		· · · · · · · · · · · · · · · · · · ·
4. Name or	number of barge Chicke	<u></u>	
5. Size and	length of pipeline 856	- Gan 4.7	4 miles long
6. From wh	ere to where <u>Pennail</u>	hlock number and platform	1 m Block
	3 to a subsent		
	lock 250, all le		
7. Where co	enstruction begins Francisco	and block number)	Mock 253
	of Commen area.		
8. When bar	rge will begin May 2	3,1084	
9. Length of	time barge will be on job	- West	
10. Nearest a	vailable heliport & Rz		
11. Does the p	pipeline cross or is it in close prox	imity to fairways or anchora	ge area?
Yes	No	/	
Where			
Initial and	d terminal points: Initial: X	- Y -	
		Y -	
	Name of Company	7/3) 759-5	32111
BEM's No	otification to USGS Frank		
	U.S. Coast Guard	Date	
	otification may be made by callin 445°a.m. and 4+15 p.m. Monday t		39-6541 between the
BEST Emp	oloyer Claritim 12	Sin	
	~/		
	•		
	Bumper Guard:		
th: <u>80</u>		Cover ove	η Valves:
			

Pipeline Installation Inspection Report

Date of inspection: Jun 13,1844	Person involved: Fred Wattruct E.V. Jam
Lessee/Operator: Wenngail ail C.	Contractor: Sand Townson
MMS Inspector: Viana Tonus	Barge or Platform:
Seg No.: or BLM 6-651	DOT/DOI: DOT
From: WC. 233 A	To: SSTI - 1950
General Description of P	peline: Pipe Specification:
Type: As	Length: 4,74
Size: f 1/F	SMYs:
Grade: B	Wall Thickness: 432 - 562
Seamless:	Anodes: Zinc - ·
Coating: <u>2/2</u>	Type: 21nc Weight: 10.4-1214
	No.: Spacing:
	BEST AVAILABLE COPY
HTP Tes	<u>st</u>
(Medium) Water or Product	<u>Vati</u>
<u>Duration Time</u>	12
Pressure Psig	2160
Rating of Valves. Fla	nges, Filtings and Location
	langes: 216 0
	itting: 216 0
Type of Down	stream Component
112 a h	
High Low	Dating of Downstroam Component.
Sensors:	Rating of Downstream Component:
Pipeline Crossing & Clearance:	Burial Depth: 3 Case on Vanna dim
Riser Protection	Valves, Taps:
Coating: Salases Tam Bumper Guard:	
Water Depth: 80	Cover over Valves:
Remarks:	



BEST AVAILABLE COPY

SN 7000

Butto 5/8/84 puly 5/8/84 Starffer 5/9/84 Mulsung 5/9/84

MAY 14 1984

In Reply Refer To: RP-2-2

OCS-G 6551

West Cameron Area

Texas Eastern Transmission Corporation

Right-of-Way

ACTION: APPLICATION APPROVED

Your application for a right-of-way 200 feet in width for the construction, maintenance, and operation of an 8 5/8-inch natural gas pipeline, 4.74 miles in length, from Pennzoil Company's Platform A in Block 253, West Cameron Area, across Blocks 252 and 249, West Cameron Area, to a subsea tie-in with Texas Eastern Transmission Corporation's 30-inch natural gas pipeline (OCS-G 1950) in Block 250 West Cameron Area, dated February 6, 1984, with its attachments, is hereby approved subject to the following:

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

Name	(inches)	Block
Texas Gas Transmission Company Texas Eastern Transmission Corporation	12 30	250 250

2. Prior to construction, buoy the following unidentified magnetic anomalies and avoid by 150 meters when placing lay barge anchors:

Shot Point No.	Line No.
26.1	97
5.3	99
14.8	103

(Orig. Sgd.) John L. Rankin

John L. Rankin Regional Manager

cc: U.S. Fish and Wildlife Service 75 Spring Street, S.W. Atlanta, Georgia 30303

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

bcc: P/L OCS-G 6551 (LE) P/L OCS-G 6551 (RP-2-2) RM Reading File

		•	Date:	4-5-84					
To:	Right-of-Wa	y Pipeline File OCS-G	655/ (LE)	•					
Through:	Supervisor, Platform/Pipeline Unit, Plans, Platform and Pipeline Section, Rules and Production, Gulf of Mexico Region (RP-2-2)								
From:		ngineer, Platform/Pip ction, Rules and Prod							
Subject:	Pipeline Right-of-Way Application, Technical Review, TEXAS TRANSMISSION CORPORATION EASTERN GAS PIPELINE COMPANY OCS-G 6551								
		CHO PIPILINE	003-0	6337					
	Length (feet)	Service	From	<u>To</u>					
85/8	25,033	<u>GAS</u>	PLATFORM A	A 30" SUBSEATIE-IN					
	·		WEST CAMERON	WEST CAMERON					
			BLOCK 253	BLOCK 250					
Recommend	ations:								
<u> </u>		chnical aspects of th ordance with appropri							
$\overline{}$	_ 2. Advise	applicant of Notice	to Lessees and Opera	tors No. 83-3.					
	_ 3. Valve mud li	protection cover shal	l not protrude above	the level of the					
	_ provid	valves and taps asso led with a minimum of or with sandbags.							
7	_ 5 <u>/~</u>	AOP = 1440 PS	519						
									
		C,	C Walker						
		С.	A. Walker						
cc: 1502	_01 OCS-G	6551 (w/orig	appln) (Seg. <u>70</u> 0	00) (RP-2-2)					
OPS-	6 (w/cy of p	olat)	•	<u> </u>					
CWalker:1	v:Disk 1			PWP					
				12/4/84					
				12/4/07					

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 6551

Texas Eastern Gas Pipeline Company

Pipeline Right-of-Way

West Cameron Blocks 253, 252, 249, and 250

Right-of-Way two hundred feet (200 feet) in width for the construction of an 8-inch pipeline to transport natural gas from the Pennzoil platform in Block 253 to a valve tie-in with the Texas Eastern Transmission Corporations 30-inch pipe line in Block 250.

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.

To prevent possible damage from lay barge anchors, the following pipelines shall be buoyed before construction:

Name	Diameter (inches)	Block(s)	
Texas Gas	12	250	
TETCO	30	250	

Buoy the following locations of unidentified magnetic anomalies before construction and avoid by 150 meters when installing lay barge anchors:

Shot Point No.	Line No.
26.1	97
5.3	99
14.8	103

Les Dauterive

RECEIVED

MAR 16 1984

Minerals Management Service Rules and Production

ODeWald:mhc

FEB 22 1984



UNITED STATES DEPARTMENT OF THE INTERIOR

MINERALS MANAGEMENT SERVICE
GULF OF MEXICO REGION
IMPERIAL OFFICE BLDG., 3301 N. CAUSEWAY BLVD.
P. O. BOX 7944

METAIRIE, LOUISIANA 70010

504-837-4720

In Reply Refer To: RP-2-2

Texas Eastern Transmission Corporation

Attention: Mrs. Nancy McCracken

Post Office Box 2521 Houston, Texas 77001

Gentlemen:

We have received your application for a right-of-way for the construction, maintenance, and operation of the following pipeline, OCS-G 6551, located in West Cameron Area:

Pipeline Segment No.	Size (inches)	Length (feet)	Service	From	<u>To</u>
7000	8 5/8	25,033	Gas	Platform A Block 253	A 30-inch Texas Eastern Transmission Corporation Subsea tie-in Block 250

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,

D. W. Solanas Regional Supervisor Rules and Production

STIPULATION

Texas Eastern Transmission Corporation 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.

Authorized Officer - H.D. Church Vice President, Texas Eastern Gas Pipeline Company a division of Texas Eastern Transmission Corporation Date:

MAR 05 1984

RECEIVED

Minerals Management Service Rules and Production

Enclosure

TEXAS () EASTERN

Gas Pipeline Company

005-6 6551

A DIVISION OF TEXAS EASTERN TRANSMISSION CORPORATION

RECEIVED

MINERALS MALECULMENT SERVICE

FEB 0 8 1984

RULES AND PRODUCTION GULF OF MEXICO REGION METAIRIE, LA.

H. D. CHURCH VICE PRESIDENT

February 6, 1984

Mr. John L. Rankin, Acting Regional Manager Minerals Management Service P.O. Box 7944 Metaire, Louisiana 70010

Re: Our File 286-4-41-J
Application for Right-of-Way
for Proposed 8-Inch Pipeline
from Block 253 West Cameron
Area to Block 250 West Cameron
Area

Dear Mr. Rankin:

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 Part 256 Subpart N, Texas Eastern Transmission Corporation hereby applies, in triplicate, for a right-of-way two hundred feet (200 ft.) in width to construct, maintain and operate an 8-inch natural gas pipeline as shown on the following listed maps and drawings attached hereto and made a part hereof:

- Index or Vicinity map Drawing No. TA-8-34420
- Hazard Survey
 Drawing No. S-83042.11-D
- 3. Profile Map
 Drawing No. TA-8-34420
- 4. Route Map
 Drawing No. TA-8-34420
- 5. Schematic
 Drawing No. TG-8-34205

This 8-inch pipeline will be used to gather and transport natural gas from Pennzoil platform in Block 253, West Cameron Area to Texas Eastern Transmission Corporation's 30-inch pipeline in Block 250 West Cameron Area.

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. 21(b), addressing the assuring of maximum environmental protection, including the safest practices for pipeline burial; 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 Manager, New Orleans 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.

In accordance with applicable regulations, the applicant has delivered a copy of the application and attachments thereto by certified mail, return receipt requested, to each lessee or right-of-way or easement holder whose lease, right-of-way or easement is so affected. A list of such lessees or right-of-way or easement holders is attached and copies of the return receipts showing date and signature as evidence of service upon such lessees or right-of-way or easement holders will be forwarded to your office when received. In the event applicant cannot obtain completed return receipt cards, a letter from the lessee, right-of-way or easement holder expressing no objection to the proposed project is acceptable. Should the proposed route of the right-of-way adjoin and subsequently cross any state submerged lands, the applicant agrees to submit to the authorized officer evidence that the state or states so affected have reviewed the application, and shall submit any comments received.

Applicant agrees to be bounded by the foregoing regulations, and further agrees to comply with the applicable stipulations as set forth in the OCS Pipeline Procedures guidebook dated June, 1981.

Additional design criteria is as follows:

- 1. Supervisor of Pipeline Design: Mr. S. W. Cook (713) 759-4060.
- 2. The line pipe will be:
 - 8.625" O.D. x 0.500" W.T. x 43.39#/ft. API 5L- Grade B. Seamless
 - a) 500 feet of pipeline approaching the platform.
 - b) 500 feet of pipeline approaching the mainline tie-in.
 - c) Pipeline riser and platform piping.

8.625" O.D. x 0.375" W.T. x 33.04#/ft. x APL 5L Gr. B, Seamless. a) Mainline.

- 3. Sacrificial anodes are used to cathodically protect the pipeline. The design and description of the anodes are as follows:
 - a. Description:

Type: Galvalum III

Size: Manufacturers drawings not available at this time.

Weight: 39 lbs.

Spacing: 78 anode-bracelets will be installed at an approximate

spacing of 320 feet each.

b. Design:

The anode weight of cathodic protection is based on the following calculations.

Where, W = weight of Galvalum III anodes in lbs.

e = Galvalum III anode capacity = .107 ampre years/lb. in mud = .131 ampre years/lb. in sea water.

A = total surface area of the pipeline to be protected in square ft.

h = % of the pipe surface exposed by coating holidays or damage.

c = current density required for cathodic protection, in ampheres per square ft. of exposed steel surface.

y = number of years of protection to be furnished by initial anode installation.

u = utilization factor of anodes; conservative design estimate
 of 0.7.

$$W = \frac{A h c y}{eu}$$

$$\frac{W}{A} = \frac{h c y}{0.107 \times 0.7}$$

$$= \frac{.02 \times .005 \times 40}{.107 \times 0.7}$$

= 0.0534 lbs. of Galvalum III per sq. ft. of total pipe surface

$$A = \frac{\text{X 8.625}}{12"} \times 4.8 \text{ Mi. x 5,280'}$$

= 57,227 sq. ft.

W = 0.0534 lbs./sq. ft. x 57,227 sq. ft.

= 3,056 lbs. of Galvalum III anodes required

$$N = \frac{W}{39} = \frac{3,056}{39} = 78$$
 Use 78 anode bracelets

- 4. The water depth along the proposed route is approximately 82 feet maximum and 78 feet minimum.
- 5. External pipeline coating:

Line Pipe: Scotchkote 217, 14 mils minimum thickness.

Riser Pipe: a) Below splash zone

Scotchkote 217, 14 mils minimum thickness.

b) In splash zone

1/2" thickness of Splashtron rubberized coating.

c) Above splash zone

Inorganic zinc primer, tie-coat and vinyl topcoat paint

system.

- 6. No pipeline internal coating will be applied. Corrosion inhibitor will be injected, as deemed necessary.
- 7. Specific gravity of the empty coated pipe is 1.30 based on sea water at 64.00 lbs/cu. ft.
- 8. The expected specific gravity of the gas transported is 0.61 based on air at 1.0.
- 9. The design capacity of the pipeline is 19 MMCFD based on the maximum expected working pressure of 1200 psig.
- 10. The 8-inch pipeline will be hydrostatically tested at 2175 psig (+0, -15 psig) for a minimum duration of 12 hours. The riser section will be pretested to 4000 psig (+0, -50 psig) for a minimum duration of 12 hours.

- Maximum allowable operating pressure based on valves, flanges and fittings is 1440 psig.
- 12. Maximum allowable operating pressure based on line pipe is 2,191 psig.

$$P = \frac{2 \text{ St}}{D} \times F \times E \times T$$

$$S = 35,000 \text{ psig}$$

$$t = 0.375 in.$$

$$D = 8.625 in.$$

$$E = 1.0$$
 for seamless pipe

$$T = 1.0$$
 for 250° or less

$$P = \frac{2 \times 35,000 \times 0.375}{8.625} \times 0.72 \times 1.0 \times 1.0$$

$$P = 2,191 psig$$

13. Maximum allowable operating pressure based on riser pipe is 2,028 psig.

$$P = \frac{2 St}{D} \times F \times E \times T$$

$$S = 35,000 psig$$

$$t = 0.500 in.$$

$$D = 8.625 in.$$

$$F = 0.50$$
 (Design factor for riser)

$$T = 1.0$$
 for 250°F or less

$$P = \frac{2 \times 35,000 \times 0.500}{8.625} \times 0.5 \times 1.0 \times 1.0$$

$$P = 2,028 psig$$

- 14. Maximum allowable operating pressure as determined in accordance with DOT Title 49, Code of Federal Regulations, as applicable, is 1,440 psig.
- 15. No pumps or prime movers will be connected to the pipeline.
- 16. The proposed 8-inch Pipeline will be tied into an existing 14-inch tap valve on Texas Eastern's 30" Line 41 pipeline in Block 250 West Cameron area. The design pressure is 1440 psig. Other data of the existing line is as follows:
 - a. Line Pipe:

30" O.D. x 0.500" W.T. x 157.53#/ft. x API 5LX-60.

- b. The most recent hydrostatic test pressure is 2,025 psig.
- c. All valves and fittings are rated ANSI 600 or better.
- d. The gas transmission pipeline construction was completed in September 1970.
- 17. a. The approximate construction starting date is May 1, 1984.
 - b. Pipeline construction will be conventional lay or reel barge.
 - c. The pipeline burial will be jet dredge.
 - d. Time required to lay the pipeline is approximately twenty days.
 - e. This project should be completed by September 30, 1984.

Texas Eastern Transmission Corporation wishes to "hereby certify that the proposed activity described in this permit application complies with and will be conducted in a manner that is consistent with the Coastal Resources Program of the State of Louisiana."

Enclosed are the appropriate number of copies of the maps and drawings referred to above, prepared and certified in accordance with applicable guidelines. A certified copy of the Articles of Incorporation and a certified copy of the resolution, under seal, certifying that the corporate officer executing the application has the authority to do so, have already been submitted to your office. These documents have been placed on record in a file identified as Miscellaneous File No. 176. A filing fee of \$100.00, together with the first year's rental of \$75.00 computed on 4.74 miles of right of way, is enclosed. Also enclosed are three (3) originals of a Nondiscrimination in Employment statement as executed by Texas Eastern Transmission Corporation.

If the above and attached information meets with your approval, we would appreciate your issuing the necessary permit for the right-of-way at your earliest convenience. Inquiries concerning this application may be directed to Nancy McCracken at 713/759-5214.

Sincerely,

TEXAS EASTERN TRANSMISSION CORPORATION

H. D. Church, Vice President Texas Eastern Gas Pipeline Company

A division of

Texas Eastern Transmission Corporation

NSM/wp Enc.

cc: Lessees and Right of Way Holders Listed on Attachments Lessees and Right of Way Holders to be notified of Texas Eastern Transmission Corporation's proposed 8-inch line from Pennzoil's Platform in Block 253 West Cameron Area to Texas Eastern Transmission Corporation's 30-inch line in Block 250 West Cameron Area.

• • •

Block	<u>Decision</u>	Lessee or Right of Way Holder
253	OCS-G-3500 c	Pennzoil Producing Company
253	0CS-G-3500 ²	Pogo Producing Company
253	OCS-G-3500 ⁽	AMAX Petroleum Corporation
253	OCS-G-3500 °	Pennzoil Oil & Gas, Inc.
252	0CS-G-5186 └	Pennzoil Oil & Gas, Inc.
252	0CS-G-5186 └	Pennzoil Producing Company
252	0CS-G-5186 ℃	Pogo Producing Company
252	0CS-G-5186 [℃]	AMAX Petroleum Corporation
249	OCS-G-3499 (5-)	Atlantic Richfield Company
249	OCS-G-3874	Texas Gas Transmission Corporation
249	OCS-G-4632	InterNorth, Inc.
250	OCS-G-1950	Texas Eastern Transmission Corporation
250	OCS-G-3874	Texas Gas Transmission Corporation
250	OCS-G-5185 (A)	Atlantic Richfield Company

UNITED STATES DEPARTMENT OF THE INTERIOR MINERALS MANAGEMENT SERVICE

NONDISCRIMINATION IN EMPLOYMENT

As a condition precedent to the approval of the granting of the subject pipeline right-of-way, the grantee, Texas Eastern Transmission Corporation, hereby agrees and consents to the following stipulation which is to be incorporated into the application for said right-of-way.

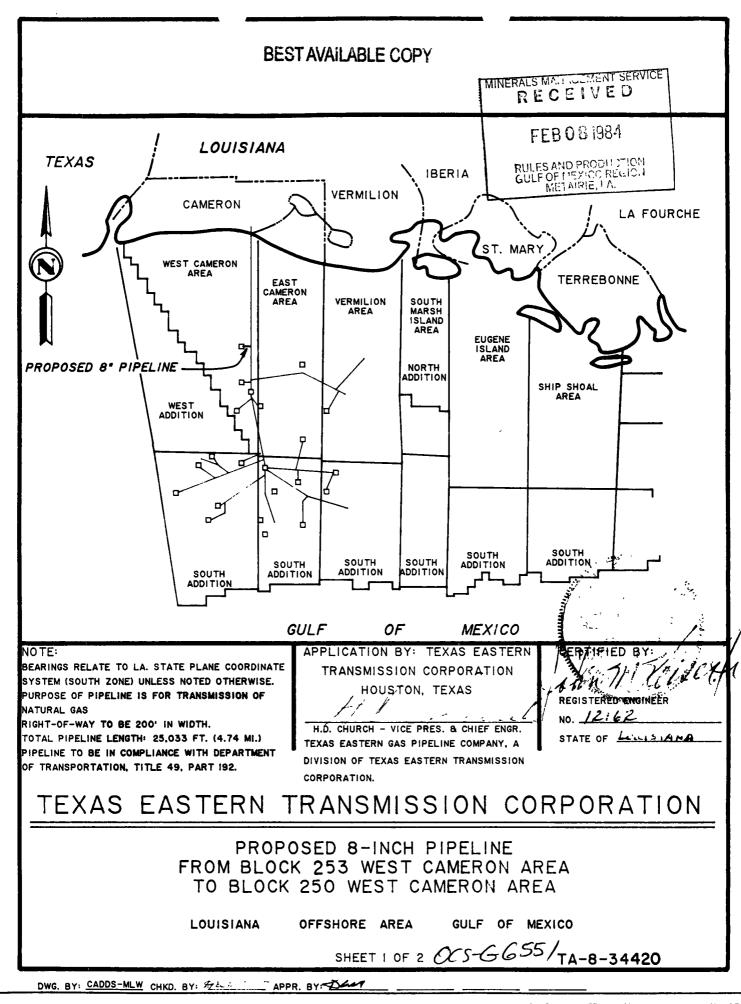
During the performance of this contract the grantee agrees as follows:

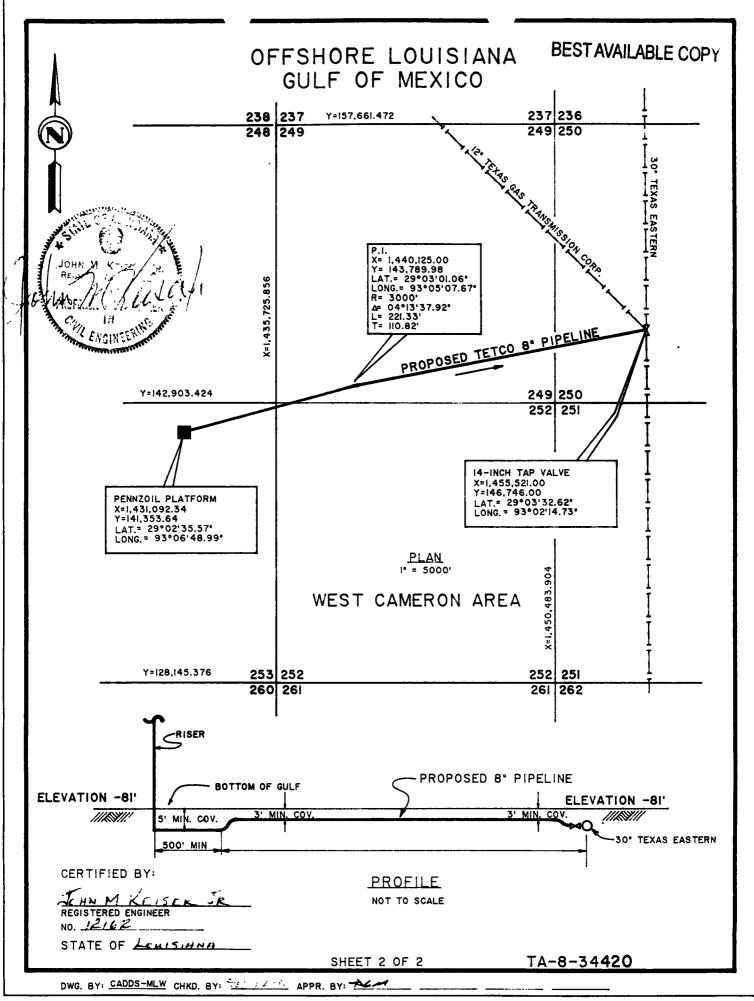
During performance under this grant, the grantee shall fully comply with paragraphs (1) through (7) of section 202 of Executive Order 11246 as revised (reprinted in 41 CFR 60-1.4(a), which are for the purpose of preventing discrimination against persons on the basis of the race, color, religion, sex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

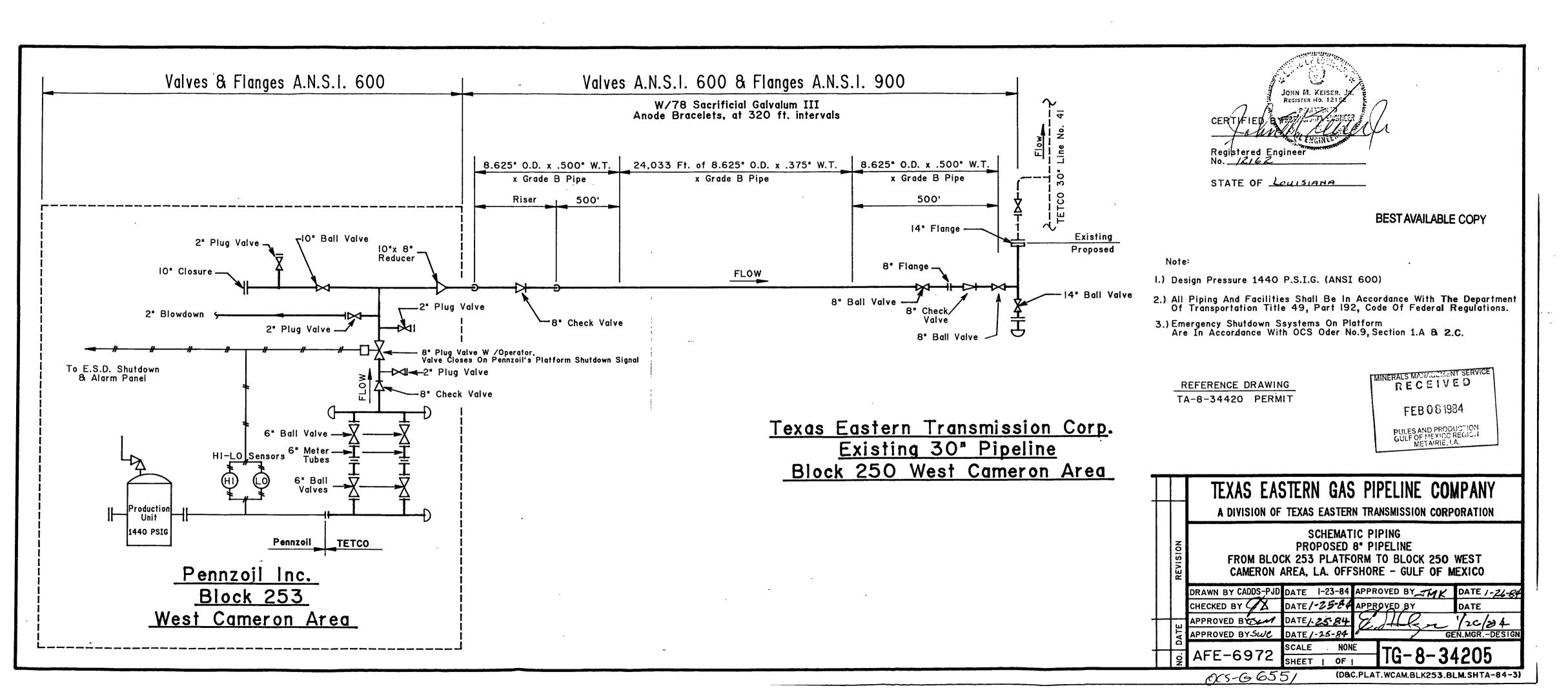
Signature of the Grantee
(H. D. Church, Vice President
Texas Eastern Gas Pipeline Company
a division of

Texas Eastern Transmission Corporation)

Date:	February	6,	1984				
-------	----------	----	------	--	--	--	--







NOTIFICATION OF CONSTRUCTION

				·Date:	
1	OCS sumber	6551		/ /	
2	Name of company	Texor Es	lun Trasmi	in Corp.	
2	Name of contract	Suto	Fe Engri	anata i	
3	. Name or number o	Chi	berne	<i>d</i> .	
4	. Name or number (of barge	Z" (4.74 0	
5	. Size and length of	pipeline	(V) (D) 1	4.94 miles	<u>Long</u>
6	. From where to wh	en Pennail	Co. a Platf	d method	
				d platform) SCS-G 1950	
	in Block	250, all	located in W.	est Camun Oliver	
7	. Where construction	begins Parmy	onthe Platfo	m A in Block 2	<u>5</u> 3
·	must Co	mum aria	rea and block number)	
•	. When barge will be				
8	, when barge will be	gn	2 weeks	*****	
9	. Length of time bary	ge will be on job			
10	. Nearest available he	eliport	30-3		
11	. Does the pipeline cr	oss or is it in close pr	oximity to fairways o	or anchorage area?	
	Yes	No			
	Where				
	initial and termina	l points: I nitial:	X =	Y=	
		_	X =	M. Conker	_
			ny Contact March		
		Telephone Numb	(713) 13	59-5214	
	BEM's Notification	to USCS Front	2 TOWAS	Date	4
		U.S. Coast Guard		Date	<u> </u>
		may be made by ca and 4413 p.m. Monda		1 (5 04) \$89-6541 between	the
		Vista A	Samo		
	Employer	MANUEL THE SE	ANGEO COL		

PIPELINE APPLICATION CHECK LIST

BEST AVAILABLE COPY

INSTRUCTIONS: Check the blank on the left if the statement is affirmative or correct data submitted. Make N/A (not applicable) where appropriate. Place an X in the blank if the answer is no or if the data was not submitted. All blanks marked X must be rectified to a check (or qualified) before approval can be given for the pipeline. Enter data in the blanks furnished.

- A. Verify the following general information:
 - I. SOP
 - N)A a. Do the leases involved on the pipeline application appear on the current Suspension of Production (SOP) Lease List?
 - II. POD
 - N/H a. Is the pipeline presently covered by an approved Plan of Development (POD)?
 - III. USGS Application
 - A. The pipelines are wholly contained within the boundaries of:
 - NIA1. A single lease.
 - NIA 2. Unitized leases.
 - N/A 3. Contiguous (not cornering) leases of the same owner or operator
 - IV. BLM Application
 - a. Pipelines not covered by III above.
 - V. DOT Pipelines
 - a. The pipelines are shoreward of the outlet flange at the last process facility (If yes, include 49 CFR 192 for gas P/L or 49 CFR 195 for oil P/L in approval).
 - VI. DOI Pipelines
 - N/H a. Pipelines not covered by V above.

l R Vacify	that the information shown on the safety equipment schematic
	g contains the following:
1.	The pipeline leaving the platform receiving production from the platform is equipped with high- and low-pressure sensors to directly or indirectly shut-in the well or wells on the platform.
<u>N)A</u> II.	The pipeline delivering production to production facilities on the platform is equipped with automatic fail close valve tied into the automatic and remote shut-in system.
<u>n/A</u> III.	The pipeline crossing the production 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.
<u>n/a</u> IV.	The pipeline boarding the platform is equipped with a check valve.
<u>v.</u>	The pipeline leaving the platform is equipped with a check valve.
NIA VI.	The pipeline pump is shown as well as its associated high- and low-pressure shut-in device.
VII.	Check valves are located such that the low-pressure shut-in devices in I, II, III, and VI are not isolated.
<i>N/2</i> - VIII	. If pipeline pilots are located on any pressure vessel or downstream of a departing check valve, all flow restriction(s), [backpressure valve(s), choke(s)], downstream of the process vessel, or wellhead, and upstream of check valve(s) must be indicated on the schematic.
	If flow restriction(s) exist downstream of any process vessel a low-pressure sensor must be installed between the flow restriction(s) and the departing check valve(s). High-pressure sensor(s) must be installed downstream of the wellhead choke.
NIA IX.	If safety equipment associated with the pipeline is located on a pig trap, so that it would be bypassed during pigging operations, add statement in approval letter referring to letter to lessees and operators, dated February 25, 1980, (Procedures for Temporary Removal of Pipeline-Related Safety Equipment)
<u>></u> x.	Pressure source is drawn into the schematic with the following:
	e. Source SEPERATOR
	b. Maximum source pressure, psig 1440
XI.	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. ANSI 600

C. Veri	fy	that the <u>location plat</u> depicts the following:
	I.	Location of pipeline
<u></u>	I.	Length of pipeline
<u> </u>	I.	Size of pipeline
2 1	v.	Type of service
7	V.	Direction of flow
<u></u>	1.	X-Y coordinates of key ponts
and	cal	that the information given on the submitted data sheet is completed culate the MAOP $_{\rm SC}$, MAOP $_{\rm p}/1$. eral information for calculating MAOP $_{\rm SC}$, MAOP $_{\rm rc}$, etc.
•	٤.	Size of pipeline, inches 8 5/8
•	ъ.	Weight of pipeline, lbs./ft. 0, 375 33.04#/FT
	c.	Grade of pipelineB
,	d.	Wall thickness, inches 0.375
	●.	Size of riser, inches 85/8
	£.	Weight of riser, lbs./ft. 43,39
	g.	Grade of riserB
•	h.	Wall thickness of riser, inches 0.500
•	i	Minimum WP rating of piping, fittings, valves, psig 1440
		Hydrostatic test pressure (HTP), psig 2175 4000
		Hold time, hrs. 12 1KS
		Classification of pipeline (oil or gas) BAS

comple	that the information was given on the submitted data sheet is te; and calculate the life expectancy of the pipelines corrosion tion (LE _{p/1})										
I. Ge	General Information for Calculating LE _{D/1}										
_	Type of corrosion protection (platform anodes, P/L anodes) or rect:										
<u></u> b.	If pipeline anodes are used:										
	1. Type of anode GALVALUM III										
	2. Spacing interval, ft. 320										
	3. Weight of unit anode, lbs. 39										
II. Ca	lculate Life Expectancy of Corrosion Protection										
<u> </u>	If platform anodes are used, annual pipe-to-electrolyte potential measurements are required.										
<u> b.</u>	If pipeline anodes are used:										
	$LE_{p/1} = 3.82 \times 10^4 \times W^0/DIR? =$										
	WO = weight of one mode, pounds										
	D = outside diameter of pipe, inches										
	I = interval = length of pipe, feet + total number of anodes										
	R = consumption rate, lbs./amp-yr.										
<u></u>	Is our calculated LE _{p/l} 20 years.										
	If not, one of the following is necessary:										
	N/A 1. The company agrees to increase their cathodic protection to meet the 20-year requirement.										
	N/A 2. Annual pipe-to-electrolyte potential measurements will be required.										

II.	202	Pipelines	•
	8.	IP SMYS for submerged pipeline = 2st =	7
	ъ.	(.72 x IP # SMYS) for submerged pipeline =	_(MAOP_c)
	c.	IP 8 SMYS for riser = 2st =	
	đ.	(.60 x IP * SMYS) for riser =	(MAOP _{IC})
	€.	See DII above (MAOP) =	(MAOP _{PÉV})
	_£.	Is 1.25 MSP = HTP = .95 (IP & SMYS for smaller IP of a and	c above)
•	_g.	HTP/1.25 =	
	_h.	Is HTP hold time = 2 hours	
	_i.	MAOP of receiving pipeline from XV	
	.و	$MAOP_{p/1}$ = the smallest of b, d, e, g, and i above	
	_k.	Test pressure ANSI & API carbon steel RNJ & RF Flanges and (From Table 3.1, Page 31 AP	
	_1.	Is K > HTP	
		NOTE: If not, add statement in approval letter to insure flanges are not subjected to test pressure.	valves and
	_=.	Is j≥MSP	
			•
		If not, one of the following is necessary:	
		1. Redundant safety equipment is afforded.	•
		2/ A departure from the requirement for redundant s	afety equip
	D.	Type of redundant protection	
		1. Additional SDV actuated by an independent PSH.	
		2.: PSV that vents into a flare scrubber or another location (must be approved by District).	approved

III.	DOT	Pi	pe	lines					
	8.	IP	•	SMYS	for	submerged	pipeline •	2st =	3043
		•		•				D	

c. IP 6 SMYS for riser =
$$\frac{2st}{D}$$
 = $\frac{40.58}{}$

d. For oil P/L (.60 x IP 0 SMYS) for riser =
$$\frac{N/A}{100}$$
 (MACP_{TC})
For gas P/L (.50 x IP 0 SMYS) for riser = $\frac{2029}{100}$

f.	Limit	of	Testing	g
----	-------	----	---------	---

1. For oil P/L

Is 1.25 MSP ≤ HTP ≤ .95 (IP 0 SMYS for smaller IP of a and c abc

N/H ≤ N/H ≤ N/H

2. For gas P/L riser component:

Is 1.50 MSP ≤ HTP of riser ≤ .95 (IP • SMYS of c above)

2160 ≤ 4000 ≤ 3855

3. For gas P/L submerged component:

Is 1.25 MSP = HTP of submerged component = .95 (IP & SMYS of a a 1440 \(\frac{2175}{2175} \) \(\frac{389}{2175} \)

g. MAOP_{D/1} based on HTP

•		Is HTP hold		
For g	as P/L	Is HTP hold	time = 5 hou	=s <u>12 HR</u> S
MAOP	of recei	ving pipeline	from IV	1440
MAOP	/1 = the	smallest of b	, d, e, g, an	d i above
		144	<u> </u>	(MADP _{p/1})
Test	Pressure			J & RF flanges and valves
	_			.1, page 31 API RP 14E)
			(capte 3	or here as we we see!
Is ķ	> HTP	EQUAL		
NOTE .	If not			letter to insure valves
	-		A	
	langes a	re not subject	ed to test bi	essure.
and f	Z MSP	re not subjects	•	essure.

	•	Submerged Component Rise:
8.	Size, inches	
ъ.	Grade	
c.	Wall thickness, inche	\$
	Minimum working pres- sure of valves and flanges	(MAOPpfv)
•.	Date of last hydro- static test	
£.	HTP, psig	
8.	Hold time, hrs.	•
h.	MAOP based on HTP HTP/1.25	
i.	IPESMYS for submer- ged P/L 2ST/D	
j.	(.72 x IPOSMYS) for submerged P/L	(MAOPse)
k.	IPOSMYS for riser 2ST/D	
1.	(.60 x IPSSMYS) for riser	(MAOPTE)
B.	tested since July 1,	is a DOT gas P/L and has not 1 1971, then what is the HAOP to cted during the 5 years prior
n.	MAOP of receiving P/L MSP of proposed P/L	Z MAOP of proposed P/LZ

*HAOP - Highest actual operating pressure

1440 - 1440 - 1440

	and calculate the specific gravity on the pipeline SG_{pl})
I.	General information pertaining to \$6p/7
	a. Description of pipelines protective coating SCOTCHKOTE 217 14 MILS
	b. Description of risers protective coating B. SCOTCHKOTE 217 14 SZ 15" RUBBER
	c. Description of preconcrete coating NIA
	d. Gravity or density of products:
•	For gas 0.67 (a1r = 1.0)
	For oil/condensate <u>N/A</u> • API <u>N/A</u> (water = 1.0)
11.	Specific information pertaining SGp/1
	a. Given SGp/1
	b. Weight of bare pipe (W) 1b/ft
	c. Weight of preconcrete coating (P)
	d. Kg (coefficients from table)
	e. Density of concrete (dc)
	f. Thickness of concrete (T)
•	g. Ki (coefficient from table)
/	
•••	h. K2 (coefficient from table)
111.	Specific gravity for weighted pipelines:
	a. $S6p/1 = dc + K2 + K2 + dc + d$
tv.	Specific gravity for epoxy-coated pipelines:
•••	
	a. $SG_{p/1} = 2.865 \text{ w/d}^2 = 1.27$ (w = weight of pipe, d = diameter, inches)
٧.	Is calculated S.G ≃operator's given SG
	1,27 ~ 1,30
	: 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.

F. Verify that the information given on the submitted data sheet is complete;

must be met: N/A 1. 18-inch minimum clearance between pipelines. N/A 2. If pipeline is buried is there 3-feet of cover provided for the proposed pipeline? 3. Slope of sandbags N/A a. Diameter of both pipelines is < 8 5/8-inch - 2:1 slope N/A b. Diameter of either pipeline is > 8 5/8-inch - 3:1 slope N/A c. At pipe crossings if both pipelines are unburied (regardless of size) - 3:1 slope If pipeline ties into an existing pipeline or is equipped with future osea taps, the following conditions must be met: 1. Minimum 3-feet of cover is provided at subsea tie-in and future tie-in point(s). N/A 2. If a birdcage is utilized it must be provided with a minimum of 3-feet of cover. Verify the following general information: I. Water depth, ft. 82 (Max) 78 (Min) II. Burial depth, ft. 3 III. Anticipated Operating Pressure (MOP) 1200 PSIGNIA. Verification of Information Per Telephone Conversation. Give Name of Person, Date, and Information:	must be mat:
N/H 2. If pipeline is buried is there 3-feet of cover provided for the proposed pipeline? 3. Slope of sandbags N/A a. Diameter of both pipelines is < 8 5/8-inch - 2:1 slope N/A b. Diameter of either pipeline is > 8 5/8-inch - 3:1 slope N/A c. At pipe crossings if both pipelines are unburied (regardless of size) - 3:1 slope If pipeline ties into an existing pipeline or is equipped with future sea taps, the following conditions must be met: 1. Minimum 3-feet of cover is provided at subsea tie-in and future tie-in point(s). N/A 2. If a birdcage is utilized it must be provided with a minimum of 3-feet of cover. Verify the following general information: I. Water depth, ft. 82 (Max) 78 (Min) II. Burial depth, ft. 3 II. Anticipated Operating Pressure (MOP) 1200 PS/9 IV. Capacity 19 M2/D Verification of Information Per Telephone Conversation. Give Name of	MUSI DE MEI.
proposed pipeline? 3. Slope of sandbags NIA a. Diameter of both pipelines is < 8 5/8-inch - 2:1 slope NIA b. Diameter of either pipeline is > 8 5/8-inch - 3:1 slope NIA c. At pipe crossings if both pipelines are unburied (regardless of size) - 3:1 slope If pipeline ties into an existing pipeline or is equipped with future sea taps, the following conditions must be met: 1. Minimum 3-feet of cover is provided at subsea tie-in and future tie-in point(s). N/A 2. If a birdcage is utilized it must be provided with a minimum of 3-feet of cover. Verify the following general information: I. Water depth, ft. 82 (Max) 78 (Min) II. Burial depth, ft. 3 III. Anticipated Operating Pressure (MOP) 1200 PS/9 IV. Capacity 19 M2/D Verification of Information Per Telephone Conversation. Give Name of	NA 1. 18-inch minimum clearance between pipelines.
N/A a. Diameter of both pipelines is < 8 5/8-inch - 2:1 slope N/A b. Diameter of either pipeline is > 8 5/8-inch - 3:1 slope N/A c. At pipe crossings if both pipelines are unburied (regardless of size) - 3:1 slope If pipeline ties into an existing pipeline or is equipped with future sea taps, the following conditions must be met: 1. Minimum 3-feet of cover is provided at subsea tie-in and future tie-in point(s). N/A 2. If a birdcage is utilized it must be provided with a minimum of 3-feet of cover. Verify the following general information: I. Water depth, ft. 82 (Max) 78 (Min) II. Burial depth, ft. 3 III. Anticipated Operating Pressure (MOP) 1200 PS/9 IV. Capacity 19 M2/D Verification of Information Per Telephone Conversation. Give Name of	
NIA b. Diameter of either pipeline is > 8 5/8-inch - 3:1 slope NIA c. At pipe crossings if both pipelines are unburied (regardless of size) - 3:1 slope If pipeline ties into an existing pipeline or is equipped with future sea taps, the following conditions must be met: 1. Minimum 3-feet of cover is provided at subsea tie-in and future tie-in point(s). NIA 2. If a birdcage is utilized it must be provided with a minimum of 3-feet of cover. Verify the following general information: I. Water depth, ft. 82 (Max) 78 (Min) II. Burial depth, ft. 3 III. Anticipated Operating Pressure (MOP) 1200 PS/9 IV. Capacity 19 M2/D Verification of Information Per Telephone Conversation. Give Name of	3. Slope of sandbags
If pipeline ties into an existing pipeline or is equipped with future sea taps, the following conditions must be met: 1. Minimum 3-feet of cover is provided at subsea tie-in and future tie-in point(s). N/A 2. If a birdcage is utilized it must be provided with a minimum of 3-feet of cover. Verify the following general information: I. Water depth, ft. 82 (Max) 78 (Min) II. Burial depth, ft. 3 III. Anticipated Operating Pressure (MOP) 1200 PSIS IV. Capacity 19 M2/D Verification of Information Per Telephone Conversation. Give Name of	$\frac{N/H}{2}$ a. Diameter of both pipelines is $\leq 8.5/8$ -inch - 2:1 slope
(regardless of size) - 3:1 slope If pipeline ties into an existing pipeline or is equipped with future sea taps, the following conditions must be met: 1. Minimum 3-feet of cover is provided at subsea tie-in and future tie-in point(s). N/A 2. If a birdcage is utilized it must be provided with a minimum of 3-feet of cover. Verify the following general information: I. Water depth, ft. 82 (Max) 78 (Min) II. Burial depth, ft. 3 III. Anticipated Operating Pressure (MOP) 1200 PS19 IV. Capacity 19 M2/D Verification of Information Per Telephone Conversation. Give Name of	N/A b. Diameter of either pipeline is > 8 5/8-inch - 3:1 slop
If pipeline ties into an existing pipeline or is equipped with future isea taps, the following conditions must be met: 1. Minimum 3-feet of cover is provided at subsea tie-in and future tie-in point(s). N/A 2. If a birdcage is utilized it must be provided with a minimum of 3-feet of cover. Verify the following general information: I. Water depth, ft. 82 (Max) 78 (Min) II. Burial depth, ft. 3 III. Anticipated Operating Pressure (MOP) 1200 PSI3 IV. Capacity 19 M2/D Verification of Information Per Telephone Conversation. Give Name of	
1. Minimum 3-feet of cover is provided at subsea tie-in and future tie-in point(s). N/A 2. If a birdcage is utilized it must be provided with a minimum of 3-feet of cover. Verify the following general information: I. Water depth, ft. 82 (Max) 78 (Min) II. Burial depth, ft. 3 II. Anticipated Operating Pressure (MOP) 1200 PSIS IV. Capacity 19 M2/D Verification of Information Per Telephone Conversation. Give Name of	
1. Minimum 3-feet of cover is provided at subsea tie-in and future tie-in point(s). N/A 2. If a birdcage is utilized it must be provided with a minimum of 3-feet of cover. Verify the following general information: I. Water depth, ft. 82 (Max) 78 (Min) II. Burial depth, ft. 3 II. Anticipated Operating Pressure (MOP) 1200 PS19 IV. Capacity 19 m²/D Verification of Information Per Telephone Conversation. Give Name of	If pipeline ties into an existing pipeline or is equipped with future
future tie-in point(s). N/A 2. If a birdcage is utilized it must be provided with a minimum of 3-feet of cover. Verify the following general information: I. Water depth, ft. 82 (Max) 78 (Min) II. Burial depth, ft. 3 II. Anticipated Operating Pressure (MOP) 1200 PS/9 IV. Capacity 19 M2/D Verification of Information Per Telephone Conversation. Give Name of	sea taps, the following conditions must be met:
future tie-in point(s). N/A 2. If a birdcage is utilized it must be provided with a minimum of 3-feet of cover. Verify the following general information: I. Water depth, ft. 82 (Max) 78 (Min) II. Burial depth, ft. 3 II. Anticipated Operating Pressure (MOP): 1200 PS/9 IV. Capacity 19 M2/D Verification of Information Per Telephone Conversation. Give Name of	1. Minimum 3-feet of cover is provided at subsea tie-in and
Verify the following general information: I. Water depth, ft. 82 (Max) 78 (Min) II. Burial depth, ft. 3 II. Anticipated Operating Pressure (MOP) 1200 PS/9 IV. Capacity 19 M2/D Verification of Information Per Telephone Conversation. Give Name of	
Verify the following general information: I. Water depth, ft. 82 (Max) 78 (Min) II. Burial depth, ft. 3 II. Anticipated Operating Pressure (MOP) 1200 PS/9 IV. Capacity 19 M2/D Verification of Information Per Telephone Conversation. Give Name of	N/A 2. If a birdcage is utilized it must be provided with a minimum
I. Water depth, ft. 82 (Max) 78 (Min) II. Burial depth, ft. 3 II. Anticipated Operating Pressure (MOP) 1200 PS19 IV. Capacity 19 M2/D Verification of Information Per Telephone Conversation. Give Name of	of 3-feet of cover.
I. Water depth, ft. 82 (Max) 78 (Min) II. Burial depth, ft. 3 III. Anticipated Operating Pressure (MOP) 1200 PS19 IV. Capacity 19 M2/D Verification of Information Per Telephone Conversation. Give Name of	
II. Burial depth, ft. 3 II. Anticipated Operating Pressure (MOP). 1200 PS19 IV. Capacity 19 M2/D Verification of Information Per Telephone Conversation. Give Name of	Verify the following general information:
II. Burial depth, ft. 3 II. Anticipated Operating Pressure (MOP). 1200 PS19 IV. Capacity 19 M2/D Verification of Information Per Telephone Conversation. Give Name of	I. Water depth, ft. 82 (Max) 78 (Min)
II. Anticipated Operating Pressure (MOP). 1200 PS19 IV. Capacity 19 M2/D Verification of Information Per Telephone Conversation. Give Name of	
IV. Capacity 19 m ² /D Verification of Information Per Telephone Conversation. Give Name of	
Verification of Information Per Telephone Conversation. Give Name of	II. Anticidated Oberating Pressure (MOP) /2(/// /5/5-
Person, Date, and Information:	
	IV. Capacity 19 m ² /D Verification of Information Per Telephone Conversation. Give Name of
	IV. Capacity 19 M ² /D Verification of Information Per Telephone Conversation. Give Name of
	IV. Capacity 19 M ² /D Verification of Information Per Telephone Conversation. Give Name of
	IV. Capacity 19 M ² /D Verification of Information Per Telephone Conversation. Give Name of
	IV. Capacity 19 M ² /D Verification of Information Per Telephone Conversation. Give Name of
· · · · · · · · · · · · · · · · · · ·	IV. Capacity 19 M ² /D Verification of Information Per Telephone Conversation. Give Name of
	IV. Capacity 19 m ² /D Verification of Information Per Telephone Conversation. Give Name of