SN4876

In Reply Refer To: LE-3-1
OCS-G 3634

June 6, 1986

ACTION

Transcontinental Gas Pipe Line Corporation — Right-of-Way

Relinquishment of Right-of-way Grant
Abandonment of Pipeline

On August 25, 1977, Transcontinental Gas Pipe Line Corporation filed an application for a right-of-way two hundred feet (200') in width for the construction, maintenance, and operation of a 16-inch natural gas pipeline, 6.83 miles in length from Transco Exploration Company's platform in Block 263, East Cameron Area, South Addition, across Block 264, East Cameron Area, South Addition, to a subsea tie-in with Sea Robin Pipeline Company's 24-inch gas pipeline in Block 265, East Cameron Area, South Addition. By Decision dated February 23, 1978, the application was approved and the right-of-way granted. Proof of construction was subsequently accepted on 6.78 miles of pipeline on January 17, 1980.

On February 27, 1986, grantee requested relinquishment of the above right-of-way in its entirety. Additionally, grantee has requested permission to abandon the pipeline in place in accordance with 30 CFR 256.89(a)(6).

Because grantee has agreed to comply with 30 CFR 256.89(a)(6), removal of the 6.78 miles of line pipe is hereby waived.

Therefore, the pipeline right-of-way grant is relinquished effective as of February 27, 1986, the date the request for relinquishment was filed in this office.

Original Signed: J. Rogers Pearcy

J. Rogers Pearcy
Regional Director

MHHolmes/

SEQ (256.89)
LE-3-1 (OCS-G 3634)
ORD Reading File

on map
9/18/86
KS

Transcontinental Gas
Pipe Line Corporation
A Subsidiary of Transco Energy Company

2800 Post Oak Boulevard
P. O. Box 1396
Houston, Texas 77251
713-439-2000

February 19, 1986

D. W. Solanas, Regional Supervisor
Minerals Management Service
Rules and Production
P. O. Box 7944
Metairie, LA 70010

ATTN: LE-3-1

Reference: OCS-G 3634, Proposed Relinquishment of Right-of-Way for a 16" Pipeline from Transco Exploration Company's Platform in Block 263, East Cameron Area, South Addition to a Subsea Tie-in with Sea Robin Pipeline Company's 24" Natural Gas Pipeline in Block 265, East Cameron Area, South Addition, Offshore Louisiana, Line No. 2-1010

Dear Mr. Solanas:

Transcontinental Gas Pipe Line Corporation (Transco) is the holder of right-of-way in Decision OCS-G 3634 issued February 23, 1978 by the United States Department of the Interior, Bureau of Land Management. That right-of-way is described as follows:

> Right-of-way 200 feet in width for the construction, maintenance, and operation of a 16-inch natural gas pipeline, 6.83 miles in length from Transco Exploration Company's platform in Block 263, East Cameron Area, South Addtion, across Block 264, to a subsea tie-in with Sea Robin Pipeline Company's 24-inch gas pipeline in Block 265, East Cameron Area, South Addition.

Transco wishes to release, relinquish and surrender to the United States of America, all of its rights, title and interest, in that portion of the right-of-way and pipeline described above.

We hereby request your approval and acceptance of the right-of-way, and pipeline relinquishment.

The pipeline will be abandoned in place in compliance with requirements of 30 CFR 256.89 (a)(6), as depicted on Drawing No. 22-0750/DI-4E-001. Accordingly, we request a written waiver of the removal requirements.

Robert G. Graves
Vice President, Transmission

RGG/JCG/ms
Enc.

OCS-G 3634

United States Department of the Interior
Minerals Management Service
Gulf of Mexico OCS Region

Generic NEPA Categorical Exclusion Review
for
Abandonment of Pipelines

ACTION IDENTIFICATION

Action Location: Gulf of Mexico Outer Continental Shelf (OCS) Offshore Texas, Louisiana, Mississippi, and Alabama

Action Description: The abandonment of lease term (permitted)/rights-of-way pipelines in situ through a waiver of removal requirements for these pipelines. The applicant proposes to abandon the pipeline in situ in accordance with Title 30 CFR, Part 250, Section 250.18(d) or Part 256, Subpart N, Section 256.89(a)(6).

The purpose of a Categorical Exclusion Review (CER) is to review the proposed action against 10 criteria established by 516 DM (Appendix 2) to determine if the proposal has potential to significantly affect the quality of the human environment. This action has been determined to have an environmental effect less significant than that when the pipeline was installed.

This Generic CER document covers the activity described above and is sustained in Title 40 CFR, Part 1508, Section 1508.4. It does not include activities proposed within the following areas of special concern: when work vessels will operate through Aransas and Cavallo Passes, between Port Aransas and Port O'Connor, Texas, which is adjacent to critical habitat for endangered and threatened species; when the proposal involves activities in blocks near biologically sensitive features, and when the proposal involves activities within the established limits of designated military warning areas.

Review of the proposal, according to the above references, indicates the proposed action does not represent an exception to the categorical exclusions. Therefore, the preparation of an Environmental Assessment is not required.

No environmental protective measures were identified.

3/11/86 Audrey J. Gautreaux RP-2-2

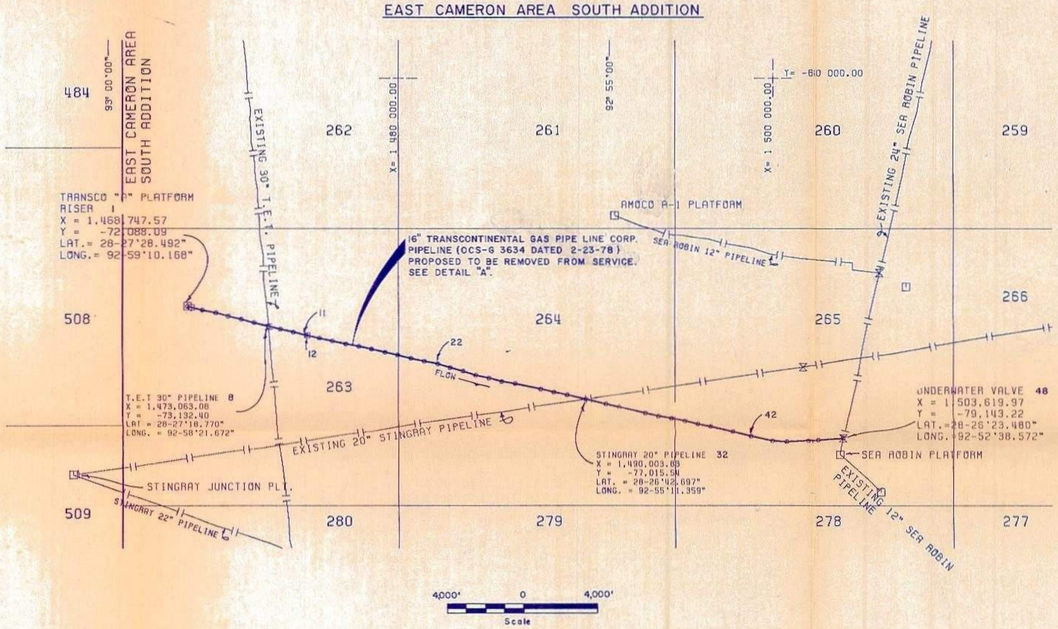
Date	Preparer	Date	Chief, Environmental Operations Section

I concur.

Date	Regional Supervisor Leasing and Environment

BEST AVAILABLE COPY

EAST CAMERON AREA SOUTH ADDITION



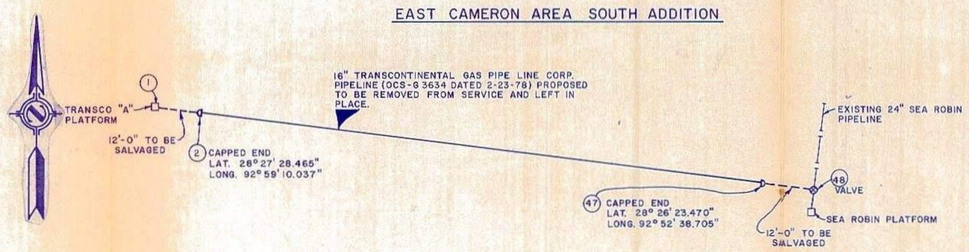
4,000' 0 4,000'
Scale

POINT NO.	"Y"	"X"		REMARKS
1	-72,088.09	1,468,747.57	/	RISER AT BLOCK 263
2	-72,091.01	1,468,759.20	/	CAPPED END
3	-72,141.97	1,468,961.68		
4	-72,420.45	1,470,263.23		
5	-72,599.36	1,470,919.93		
6	-72,766.23	1,471,619.70		
7	-72,948.95	1,472,296.01		
8	-73,132.40	1,473,063.08	/	30" TEXAS EASTERN TRANSMISSION
9	-73,286.16	1,473,705.99		
10	-73,437.96	1,474,383.99		
11	-73,609.62	1,475,074.24		
12	-73,625.47	1,475,146.71		
13	-73,763.56	1,475,778.05		
14	-73,925.94	1,476,489.23		
15	-74,073.08	1,477,184.19		
16	-74,195.00	1,477,883.14		
17	-74,344.79	1,478,565.86		
18	-74,512.17	1,479,286.89		
19	-74,666.68	1,479,959.17		
20	-74,846.90	1,480,670.78		
21	-74,990.01	1,481,379.26		
22	-75,135.84	1,482,090.20		
23	-75,336.63	1,482,757.98		
24	-75,526.79	1,483,448.72		
25	-75,742.08	1,484,125.15		
26	-75,893.20	1,484,839.23		
27	-76,077.70	1,485,515.25		
28	-76,189.89	1,486,233.65		
29	-76,471.74	1,487,605.98		
30	-76,633.81	1,488,290.14		
31	-76,780.54	1,489,006.67		
32	-77,015.54	1,490,003.83	/	20" STINGRAY PIPELINE CROSSING
33	-77,269.73	1,491,082.37		
34	-77,420.78	1,491,777.65		
35	-77,753.47	1,493,178.73		
36	-77,911.36	1,493,877.86		
37	-78,033.94	1,494,571.94		
38	-78,175.89	1,495,280.52		
39	-78,348.45	1,495,963.25		
40	-78,482.96	1,496,647.95		
41	-78,766.67	1,497,821.86		
42	-79,011.76	1,498,800.53		
43	-79,273.73	1,499,950.65		
44	-79,322.19	1,500,722.35		
45	-79,279.65	1,501,887.32		
46	-79,224.87	1,502,281.64		
47	-79,143.95	1,503,607.99	/	CAPPED END
48	-79,143.22	1,503,619.97	/	VALVE AT 24" SEA ROBIN PIPELINE

NOTES:

1. Coordinates and distances are based upon Louisiana State Plane Coordinate System (Lambert Zone) Referenced to the Clarke Spheroid (Ellipsoid) of 1866).
2. As-built Right-of-Way to be Relenquished is 200 Feet Wide.
3. This Map Reflects the As-Built Coordinate Location of the Pipeline Determined by an MRB-201 Horizontal Positioning System.

EAST CAMERON AREA SOUTH ADDITION



DETAIL "A"
N.T.S.

THIS MAP REFLECTS THE AS-BUILT COORDINATE LOCATION OF THE PIPELINE AS FILED WITH BLM UNDER OCS-G 3634 DATED FEBRUARY 23, 1978. THIS PIPELINE IS PROPOSED TO BE REMOVED FROM SERVICE BY TRANSCONTINENTAL GAS PIPE LINE CORPORATION. IT WILL BE PURGED PRIOR TO BEING CAPPED ON BOTH ENDS AND FILLED WITH INHIBITED WATER. THE CAPPED ENDS WILL BE BURIED TO A DEPTH OF AT LEAST 3 FEET BELOW THE UNDISTURBED GULF BOTTOM.

RIGHT-OF-WAY GRANTED BY OCS-G 3634	35,778.59 FEET	6.776 MILES
RIGHT-OF-WAY TO BE RELINQUISHED	35,776.59 FEET	6.776 MILES
TOTAL RIGHT-OF-WAY REMAINING UNDER OCS-G 3634 DATED FEB. 23, 1978.	0.00 FEET	0.00 MILES

STATE OF LOUISIANA
RUSSELL J. JUDAH
REG. No. 11416
REGISTERED
PROFESSIONAL ENGINEER
IN
PETROLEUM INDUSTRIAL ENGINEERING

6 FEB '86 — DATE
R J Judah — VICE PRESIDENT ENGINEERING CONSTRUCTION
11416 — NUMBER

RECEIVED
Feb 7 9 05 AM '86

REFERENCE DRAWING — DWG. NO.

BY / REVISION / DATE / NO.

Transcontinental Gas Pipe Line Corporation
A Subsidiary of Transco Energy Company

Engineering Department
Houston, Texas

PROPOSED REMOVAL FROM SERVICE
OF A 16" NATURAL GAS PIPELINE
FROM BLOCK 263 TO BLOCK 265
EAST CAMERON AREA, SOUTH ADDITION
GULF OF MEXICO

DRAWN BY C S	DATE 1-31-86	APPROVED BY [illegible]	DATE 2/4/86
DESIGNED BY	DATE	APPROVED BY Henry W. Ingram ENGINEER	
APPROVED BY DRAFTING C.W.W.	DATE 2-4-86		
N. G. NO.	SCALE NOTED	OP-DS & GUN 22-0750	
WDH/js	SHEET 1 OF 1	DWG. NO. 01-4E-001	

Form 4-1181 (July 1951)

Proof of Construction Accepted: 1/17/80

BILLING INDEX

BILLING DATE

Bond ---- Fund symbol (Acq. lands only) ---- Serial No. OCS-G 3634

No bond ---- Expiration date ---- Type P/L R/W

Effective date lease issued, assignment, or report on structure	Units (Acres, miles, etc.)	Total rental rate	County distribution of total rental rate	County distribution (County name)
2/23/78	~~6.83 Mi.~~	$5.00	$35.00	Blocks 263,
As-built	6.78 Mi.			264, 265, East
7/30/79		$15.00	$105.00	Cameron Area,
				S.A.
Relinquished		FEB 27 1986		

BILLS ISSUED

Year of lease	Date issued	Year of lease	Date issued
1978	2/23/78 pd.	6th	12/1/82 pd.
2d	12/1/78 pd.	7th	12/1/83 pd.
3d	12/1/79 pd.	8th	12/1/84 pd.
4th	12/1/80 pd.	9th	12/1/85 pd.
5th	12/1/81 pd.	10th	

	Name	Address
Principal	Transcontinental Gas Pipe Line Corporation	P. O. Box 1396 Houston, Texas 77001
Assignee of undivided interest		
Operator		

3634 P/L Transcontinental Gas Pipe Line Corporation

United States Department of the Interior

BUREAU OF LAND MANAGEMENT

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

IN REPLY REFER TO
OCS-G 3634
SN 4876

East Cameron Area,
South Addition

CERTIFIED MAIL NO. P02 3994374

January 17, 1980

DECISION

Transcontinental Gas Pipe Line Corporation	:	Right of Way for Pipe Line
	:	Date of Permit: 2/23/78
	:	Decision Requesting Proof of Construction Dated:
	:	Proof of Construction Received: 11/1/79

Proof of Construction Accepted

The above-captioned permittee has submitted the evidence required by the law and regulations 43 CFR 3340.3(a). The proof of construction is hereby accepted and approved. Deviation from original plat has been noted and new plat made a part of the record.

Because permittee has gone out of the right-of-way by ± 800' in Block 263, East Cameron Area, South Addition, Transcontinental Gas Pipe Line Corporation must notify the operators of the leases and affected pipelines in the afore-mentioned block to that effect (see attached list). Return-receipt-cards or letters from the operators evidencing proof of notice must be submitted to this office within sixty (60) days of receipt hereof.

John L. Rankin
Manager

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

NOTED—MC INTOSH

NOTED - MACHADO

NOTED—SCHONEKAS JAN 21 1980

Transcontinental Gas Pipe Line Corporation OCS-G 3634

Because permittee has gone out of the right-of-way by ± 800' in Block 263, East Cameron Area, South Addition, Transcontinental Gas Pipe Line Corporation must notify the operators of the following lease and pipeline in the aforementioned block to that effect:

East Cameron Area, South Addition

Block 263

Texas Eastern Transmission Corporation (Operator)	OCS-G 1950-P	P/L R/W
Transco Exploration Company (Operator)	OCS-G 3299	O&G

Transcontinental Gas Pipe Line Corporation

A Subsidiary of Transco Companies Inc.

2700 South Post Oak Road
P O Box 1396
Houston, Texas 77001
713-871-8000

October 25, 1979

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

Re: OCS-G 3634
16" Pipeline
Blocks 263 East Cameron Area SA
264 East Cameron Area SA
Line 2-1010, R/W 1

Dear Mr. Rankin:

In compliance with the United States Department of Interior's Code of Federal Regulations, Title 43 Part 3300, subpart 3340.3 and appropriate guidelines, we are enclosing three (3) copies of as-built drawing No. 22-0750/DI-E4-001, together with three copies each of additional supporting information listed below, for the above captioned project:

Hydrostatic Test Procedure
Pressure and Temperature Charts
Hydrostatic Test Data Sheets

As indicated on the enclosed drawings, a portion of the 16" pipeline was constructed outside of the right of way granted by decision dated February 23, 1978.

After your review, please issue Transcontinental your Decision of Proof of Construction Accepted.

Very truly yours,

Edward L. Wibner, Jr.

ELW:br

Transcontinental Gas Pipe Line Corporation
2700 South Post Oak Road
P O Box 1396
Houston, Texas 77001

ARTICLE 5.00 PIPELINE SPECIFICATIONS (OFFSHORE)

5.10 Testing

5.101 Onshore - This shall include all work and equipment for hydrostatically testing the completed platform piping, riser assemblies, valve assembly(s) and meter station(s) onshore.

The hydrostatic testing shall be performed after the piping has been assembled. Blind flanges and welding caps shall be used to blank openings where required.

Only fesh clean water shall be used for the test. All air shall be evacuated from the piping and displaced with water.

The minimum test pressure will be stated in the Job Description. Pressure shall be determined by a dead weight tester and corrected as necessary for changes in water temperature. Test data shall be recorded on T.G.P.L. Form 1250. The test period shall be for a duration of four (4) hours. Only test data indicating no pressure drop during the test period will be acceptable. If the piping does not meet this test, repairs as necessary shall be made, and the test repeated until an acceptable test is made.

The piping and meter station shall be cleared of all water and purged with air to remove all moisture residue.

5.102 Offshore - This specification covers the testing of the completed pipeline. The pipeline shall be tested using the fluid set out in the Job Description, after completing the cleaning and trenching operations. Contractor may, with the approval of Company, test the pipe in sections or prior to cleaning and trenching. This test, however, shall not be an acceptance test.

The test pressure shall be held on the pipeline for 8 hours after pressure stabilization and shall be checked by means of a standard dead weight gauge, and the data recorded on T.G.P.L. Form 1250. No drop in pressure, after making corrections for changes in temperature and barometric pressure, shall be allowed.

If the pipeline does not meet this test, such steps as necessary shall be taken to cause the pipeline to meet the requirements of the above test.

Transcontinental Gas Pipe Line Corporation
A Unit of Transco Companies Inc
2700 South Post Oak Road
P O Box 1396
Houston, Texas 77001

Title: SPECIFICATIONS FOR CONSTRUCTION OF OFFSHORE FACILITIES

ARTICLE 5.00 PIPELINE SPECIFICATIONS (OFFSHORE)

5.102 Offshore (Continued)

After a hydrostatic test has been accepted, the pipeline shall be freed of water by running as many cylinders or squeegees as deemed necessary, but not less than two. These may be propelled with gas or air. If Company cannot conveniently make gas available Contractor shall furnish air. The Company will handle the gas if it is used for dewatering.

When the platform piping and meter station(s) have been hydrostatically tested independent of the pipeline, the piping shall be drained of all water and thoroughly dried internally by use of compressed air.

Transcontinental Gas Pipe Line Corporation
A Subsidiary of Transco Companies Inc

Qualification Test Record

BEST AVAILABLE COPY

Ref: DOT 192.501 and 192.719

SHEET 1 OF 2

Account No.	Contract No. (Prime)
5286.01	25919

Prime Contractor	Test Contractor
J. RAY McDERMOTT & Co., INC	J. RAY McDERMOTT & Co., INC

Description and Location of Pipeline or Appurtenance Being Tested
APPROX. 6.83 MILES OF 16" PIPE LINE, BLOCK 263 TO BLOCK 265, EAST CAMERON AREA - OFFSHORE - LOUISIANA

LINE DATA

Description of Pipe	Length of Test Section	From (~~M.P.~~ or Blk.)	To (~~M.P.~~ or Blk.)	Survey Station No.
O.D. 16.750 W.T. .500 Yld. Y-52	35,752.55'	EC 263	EC 265	From 0+00 To 35,752.55
O.D. 16.750 W.T. .438 Yld. Y-42	Test Section No. 1	Elevation of High Point + 12-FT.		Elevation of Low Point - 172- FT.
O.D. W.T. Yld.	Drawing Nos. (Alignment ~~or Fabrication~~) G.U.N. #22-0750, ALIGN. DWG #LO-M-7-P			Sht. 1 OF 1
O.D. W.T. Yld.	Pipe Manufacturer KAISER STEEL			Purchase Order No. 235,265 (438)

TEST DATA

Type of Test	Date Fill Started	Date Fill Completed	Water Treatment	Avg. Temp. Water, ~~Air or Gas Fill~~
Gas ☐ Air ☐ Water ☒	11-8-78	11-9-78	Chem. ☒ Filter ☐	75° F.

General Weather Conditions:	Location and Elevation Where Dead Weight Readings Taken:	
FAIR - WARM	M.P. or Block Location: +12' AT EC 263	Elevation: + 12-FT.

Minimum Test Pressure Specified: (High Point)	Maximum Allowable Test Pressure: (Low Point)
2116 PSI (92 % of Specified Min. Yield)	2162 PSI (94 % of Specified Min. Yield)

TEST WATER AND LEAK DATA

Fill Water	Source: GULF OF MEXICO	Location: EC BLOCK 263	Survey Sta. 0+00	M.P. or Block EC 263
Test Water Disposal Point	Location: TO BE DISPOSED IN GULF AT EC 265		Survey Sta. 35+752.55 ±	~~M.P.~~ or Block EC 265
Leak or Test Failures During Test	Location: NONE		Survey Sta. —	M.P. or Block —
Acidity (pH) of Fill Water	During Fill: N/A		During Disposal: N/A	
Chemicals Added to Fill Water	Type: (1) EXXON COREXIT; (2) OXYGEN SCAVENGER;		(3) Quantity: (1) INHIBITOR - 31 GALS; (2) 31 GALS; (3) 35 GALS	

DEAD WEIGHT PRESSURE AND TEMPERATURE LOG

Date of Readings	Time of Readings	Pressure P.S.I.G.	Temperature of WATER Ambient	~~Chamber~~	Pipe	Remarks
11-9-78	0415	2162	65	75	68	START TEST
"	0430	2161	65	75	68	
"	0445	2160	65	75	68	
"	0500	2160	65	75	68	
"	0515	2160	64	75	68	
"	0530	2160	64	75	68	
"	0545	2160	64	75	68	
"	0600	2160	64	75	68	
"	0615	2160	65	75	68	
"	0630	2160	65	75	68	
"	0645	2160	65	75	68	
"	0700	2161	65	75	69	
"	0715	2161	66	75	69	
"	0730	2161	66	75	69	
"	0745	2161	67	75	69	
"	0800	2161	67	75	69	
"	0815	2162	67	75	70	
"	0830	2162	67	75	70	
"	0845	2162	68	75	70	
"	0900	2162	68	75	70	
"	0915	2163	69	75	70	
"	0930	2163	68	75	71	
"	0945	2158	68	75	71	BLED PRESS. DOWN 5 PSI
"	1000	2158	68	75	71	
"	1015	2158	68	75	71	

Report Prepared By: J.E. McAlpine (JEM) Date 11-9-78 Test Supervised By: [signature]

Test Witnessed By: (1) D Schweitzer (2) James B. Robertson

Test Accepted By: [signature] Date NOV. 9, 1978 Hour 1315 HOURS

Attached To Original Copy: Pressure Charts ☐ Temperature Charts ☐ Profile Book Ref. _____

Distribution: 1. Pipe Line Design Engineer ☐ 2. Pipe Line Construction Supt. ☐ 3. Field File ☐ 4. Permits Engr ☐

Ref: DOT 192.501 and 192.719

Account No.	Contract No. (P
5286.01	25914

Sheet 2 of 2

Prime Contractor	Test Contractor

Description and Location of Pipeline or Appurtenance Being Tested

SEE SHEET 1 OF 2 FOR ALL DATA

LINE DATA

Description of Pipe O.D. W.T. Yld.	Length of Test Section	From (M.P. or Blk.)	To (M.P. or Blk.)	Survey Station No. From: To:
O.D. W.T. Yld.	Test Section No.	Elevation of High Point		Elevation of Low Point
O.D. W.T. Yld.	Drawing Nos. (Alignment or Fabrication)			
O.D. W.T. Yld.	Pipe Manufacturer			Purchase Order No.

TEST DATA

Type of Test Gas ☐ Air ☐ Water ☐	Date Fill Started	Date Fill Completed	Water Treatment Chem. ☐ Filter ☐	Avg. Temp. Water, Air or Gas Fill
General Weather Conditions:	Location and Elevation Where Dead Weight Readings Taken: M.P. or Block Location:		Elevation:	
Minimum Test Pressure Specified: (High Point) _____ PSI (_____% of Specified Min. Yield)	Maximum Allowable Test Pressure: (Low Point) _____ PSI (_____% of Specified Min. Yield)			

TEST WATER AND LEAK DATA

Fill Water	Source:	Location:	Survey Sta.	M.P. or Block
Test Water Disposal Point	Location:		Survey Sta.	M.P. or Block
Leak or Test Failures During Test	Location:		Survey Sta.	M.P. or Block
Acidity (pH) of Fill Water	During Fill:		During Disposal:	
Chemicals Added to Fill Water	Type:		Quantity:	

DEAD WEIGHT PRESSURE AND TEMPERATURE LOG

Date of Readings	Time of Readings	Pressure P.S.I.G.	Temperature of WATER Ambient	~~Ground~~	Pipe	Remarks
11-9-78	1030	2158	68	75	71	
"	1045	2158	68	75	71	
"	1100	2158	68	75	71	
"	1115	2159	68	75	71	
"	1130	2159	68	75	71	
"	1145	2159	68	75	70	
"	1200	2159	68	75	70	
"	1215	2159	68	75	70	
"	1230	2159	68	75	70	
"	1245	2160	68	75	70	
"	1300	2160	68	75	70	
"	1315	2160	68	75	70	TEST COMPLETED

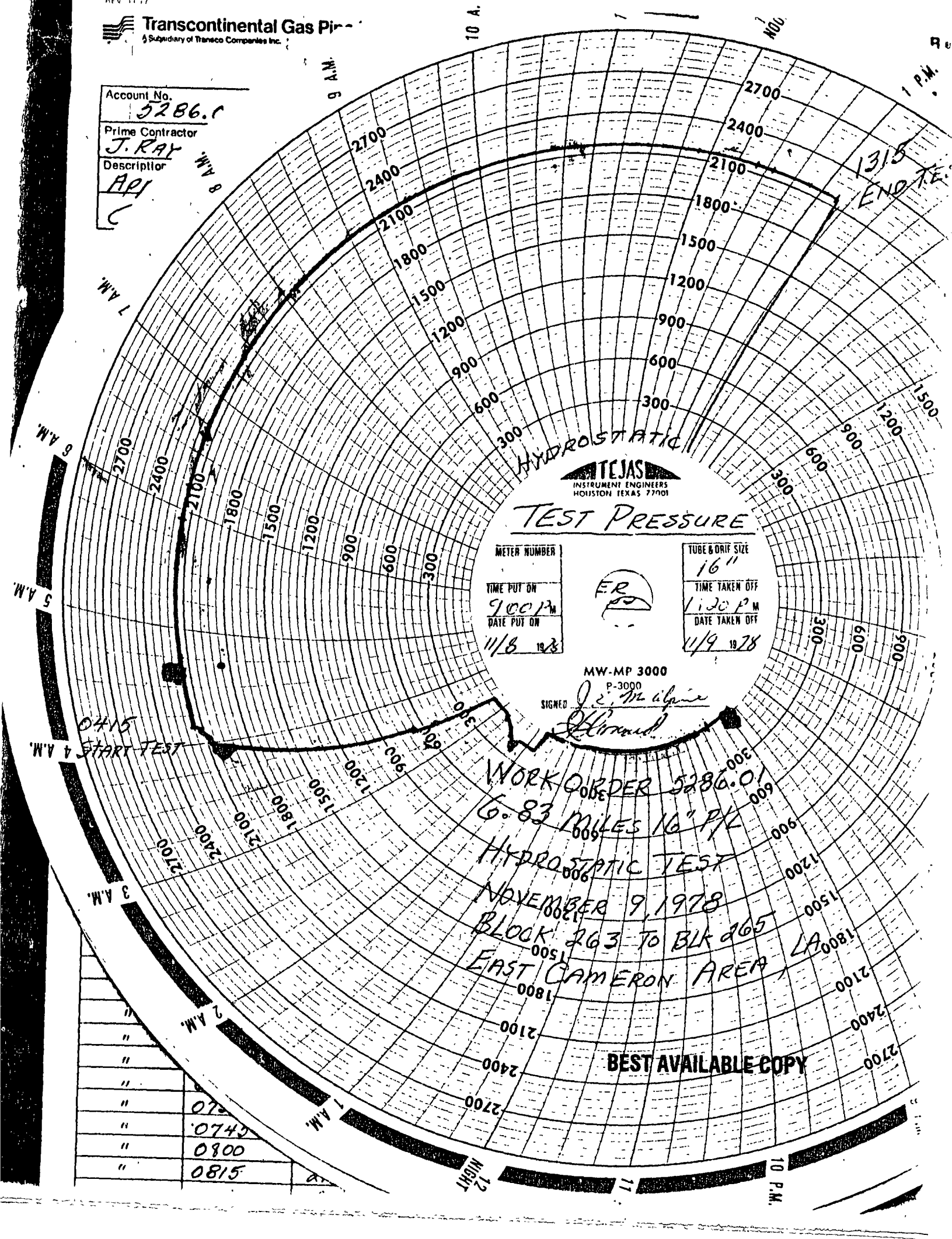
Report Prepared By: J.E McAlpine (JEM) Date: 11-9-78 Test Supervised By: [signature]

Test Witnessed By: (1) D Schwister (2) James B. Robertson

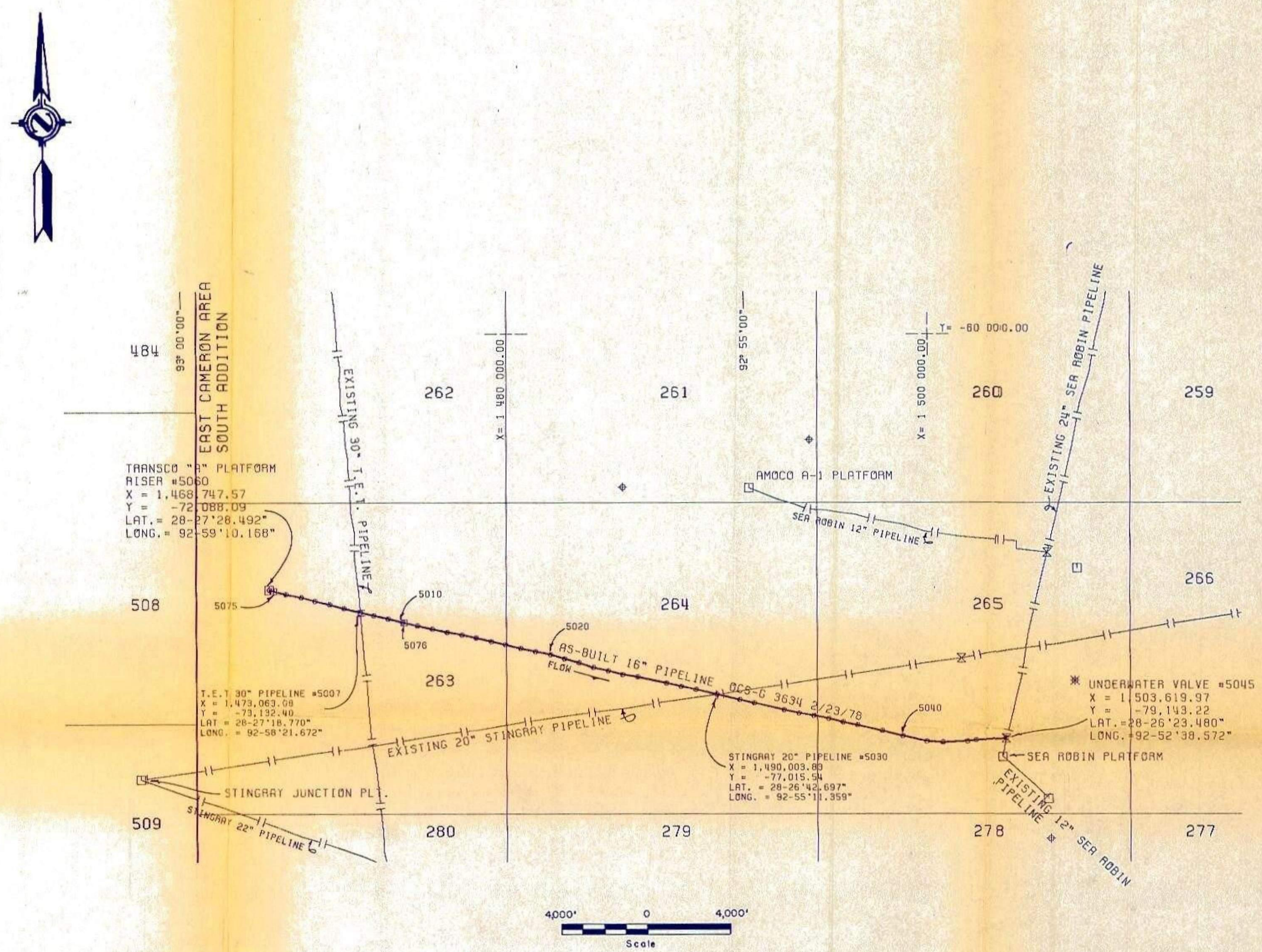
Test Accepted By: [signature] Date: Nov. 9, 1978 Hour: 1315 HRS

Attached To Original Copy: Pressure Charts ☐ Temperature Charts ☐ Profile Book Ref. _____

Distribution: 1. Pipe Line Design Engineer ☐ 2. Pipe Line Construction Supt. ☐ 3. Field File ☐ 4. Permits Engr ☐


Transcontinental Gas Pipe Line
A Subsidiary of Transco Companies Inc.
Account No.
5286.01
Prime Contractor
J. RAY
Description
API
C
TEJAS
INSTRUMENT ENGINEERS
HOUSTON TEXAS 77001
TEST PRESSURE
METER NUMBER
TIME PUT ON
9:00 AM
DATE PUT ON
11/8 1978
TUBE & ORIF SIZE
16"
TIME TAKEN OFF
1:20 PM
DATE TAKEN OFF
11/9 1978
MW-MP 3000
P-3000
SIGNED
HYDROSTATIC
1315
END T.E.
0415
START TEST
WORK ORDER 5286.01
6.83 MILES 16" P/L
HYDROSTATIC TEST
NOVEMBER 9, 1978
BLOCK 263 TO BLK 265
EAST CAMERON AREA, LA
BEST AVAILABLE COPY

BEST AVAILABLE COPY



AS-BUILT 16" FROM BLOCK 263 TO BLOCK 265 EAST CAMERON AREA , SOUTH ADDITION

POINT NO.	"Y"	"X"		REMARKS
5060	-72,088.09	1,468,747.57	/	RISER AT BLOCK 263
5075	-72,141.97	1,468,961.68	/	EXIT RIGHT - OF - WAY**
5003	-72,420.45	1,470,263.23		
5004	-72,599.36	1,470,919.93		
5005	-72,766.23	1,471,619.70		
5006	-72,948.95	1,472,296.01		
5007	-73,132.40	1,473,063.08	/	30" TEXAS EASTERN TRANSMISSION
5008	-73,286.16	1,473,705.99		
5009	-73,437.96	1,474,383.99		
5010	-73,609.62	1,475,074.24		
5076	-73,625.47	1,475,146.71	/	RE-ENTER RIGHT - OF - WAY**
5011	-73,763.56	1,475,778.05		
5012	-73,925.94	1,476,489.23		
5013	-74,073.08	1,477,184.19		
5014	-74,195.00	1,477,883.14		
5015	-74,344.79	1,478,565.86		
5016	-74,512.17	1,479,286.89		
5017	-74,666.68	1,479,959.17		
5018	-74,846.90	1,480,670.78		
5019	-74,990.01	1,481,379.26		
5020	-75,135.84	1,482,090.20		
5021	-75,336.63	1,482,757.99		
5022	-75,526.79	1,483,448.72		
5023	-75,742.08	1,484,125.15		
5024	-75,893.20	1,484,839.23		
5025	-76,077.70	1,485,515.25		
5026	-76,189.89	1,486,233.65		
5027	-76,471.74	1,487,605.98		
5028	-76,633.81	1,488,290.14		
5029	-76,780.54	1,489,006.67		
5030	-77,015.54	1,490,003.83	/	20" STINGRAY PIPELINE CROSSING
5031	-77,269.73	1,491,082.37		
5032	-77,420.78	1,491,777.65		
5033	-77,753.47	1,493,178.73		
5034	-77,911.36	1,493,877.86		
5035	-78,033.94	1,494,571.94		
5036	-78,175.89	1,495,280.52		
5037	-78,348.45	1,495,963.25		
5038	-78,482.96	1,496,647.95		
5039	-78,766.67	1,497,821.86		
5040	-79,011.76	1,498,800.53		
5041	-79,273.73	1,499,950.65		
5042	-79,322.19	1,500,722.35		
5043	-79,279.65	1,501,887.32		
5044	-79,224.87	1,502,281.64		
5045	-79,143.22	1,503,619.97	/	VALVE @ 24" SEA ROBIN PIPELINE

TOTAL FOOTAGE 16" PIPE INSTALLED = 35,778.59 FEET (6.776 MILES)
FROM RISER IN BLOCK 263 TO UNDER-WATER TAP VALVE ON SEA ROBIN 24" PIPELINE IN BLOCK 265.

** THE AS-BUILT LOCATION OF THE DEPICTED 16" PIPELINE WAS CONSTRUCTED OUTSIDE THE LIMITS OF THE RIGHT OF WAY GRANTED BT THE DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT BY DECISION OCS - G 3634 DATED FEBRUARY 23, 1978 BETWEEN POINT NUMBERS 5075 AND 5076 AS SHOWN IN THE PIPELINE TABULATION BLOCK. AT THE TIME OF CONSTRUCTION OF THIS 16" PIPELINE, CHANGES WERE MADE IN THE FIELD PERMITING A FAVORABLE STRAIGHT LINE ALIGNMENT.

RECEIVED
NOV 1 10 23 AM '79
BUR OF LAND MGMT.
OUTER CONTINENTAL SHELF OFFICE
NEW ORLEANS, LA.

NOTES:

1. BEARINGS, COORDINATES AND DISTANCES ARE BASED ON LOUISIANA STATE PLANE COORDINATE SYSTEM , SOUTH ZONE.

2. THIS MAP REFLECTS THE AS-BUILT COORDINATE LOCATION OF THE ABOVE DEPICTED PIPELINE AS DETERMINED BY A TELLUROMETER MRB-201 SYSTEM. THIS PIPELINE HAS BEEN BURIED TO A MINIMUM DEPTH OF THREE (3) FEET BELOW THE UNDISTURBED GULF FLOOR EXCEPT AT THE PIPELINE CROSSINGS AS PER THE BUREAU OF LAND MANAGEMENT DECISION NUMBER OCS - G 3634 DATED FEBRUARY 23, 1978. THIS PIPELINE HAS BEEN DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH THE DEPARTMENT OF TRANSPORTATION REGULATION PART 192 ; TITLE 49.

STATE OF LOUISIANA
RUSSELL J. JUDAH
REG. No. 11416
REGISTERED PROFESSIONAL ENGINEER IN PETROLEUM / INDUSTRIAL ENGINEERING

5-8-79	R. J. Judah	11416
DATE		NUMBER

REFERENCE DRAWING Seg. 4876 DWG. NO.

Transcontinental Gas Pipe Line Corporation
A Subsidiary of Transco Companies Inc.

ENGINEERING DEPARTMENT HOUSTON, TEXAS

AS-BUILT 16" NATURAL GAS PIPELINE
200 FOOT RIGHT OF WAY
FROM BLOCK 263 TO BLOCK 265
EAST CAMERON AREA , SOUTH ADDITION
GULF OF MEXICO

DRAWN BY CALCOMP	DATE 05/01/79	APPROVED BY R.V.K	DATE 5-2-79
DESIGNED BY R.V.K.	DATE 05/01/79	APPROVED BY Henry P. Ingram ENGINEER	
APPROVED BY DRAFTING S	DATE 5-1-79		
W. O. NO. 5286.01	SCALE 1 IN.=4000 FT.	GP-DS & GUN	22-0750
PEN	SHEET 1 OF 1	DWG. NO.	DI-E4-001

BY | REVISION | DATE | NO.

Transcontinental Gas Pipe Line Corporation

A Subsidiary of Transco Companies Inc.

2700 South Post Oak Road
P. O. Box 1396
Houston, Texas 77001
713-626-8100

November 9, 1978

P. O. Drawer "F"
Sabine Pass, TX 77655

U. S. Bureau of Land Management
Hale Boggs Building
500 Camp Street, Suite 841
New Orleans, LA 70131

Attn: Mr. Autry Britton

This letter is to confirm our telephone conversation of this A. M. related to the 8-hour hydrostatic test of our 16-inch natural gas pipeline in the Gulf of Mexico from East Cameron Block 263 to East Cameron Block 265, East Cameron area, offshore, Louisiana.

This test was begun at 0415 hours on November 9, 1975 and completed at 1315 hours on November 9, 1978. Recording equipment was set up on Transco Exploration Co. platform EC 263.

This work was covered by BLM Permit #OCS-G 3634.

Yours truly,

I. B. Coward
Chief Inspector

IBC/ted

cc: M. J. Hunter

TRANSCONTINENTAL GAS PIPE LINE CORP.

NOTIFICATION OF CONS' :TION: **BEST AVAILABLE COPY**

Company representative furnishing the following information Mr. Drummond

Telephone Number _____ Date 10/2/78

1. OCS Number G 3634
2. Name of Company J. Ray McDermott, Transcontinental Gas Pipeline Co.
3. Name of Contractor _____
4. Name of lay barge #29
5. Size of Pipeline 16"
6. From where to where EC 263-265

Length 7 miles

7. Where construction (begins) and ends (i.e., which platform) am

Platform 263

8. How long barge will be on job _____
9. Where heliports are available Jay Barge has heliport
10. Does the pipeline cross safety fairway(s)? (Go to map for information _____

Where No fairways

Initial and terminal points: Initial: X=_____ Y=_____

Terminal: X=_____ Y=_____

11. When the barge will begin (date) 10/3/78

Notify: (Frank Torres, U. S. Geological Survey, 837-4720, Ext. 237 (Give him items 1 - 9 & 11). Carol Lagacam for Frank Torres notified 10/3/78 JF

Chief Whitehouse, Petty Officer Lutali, or (Chief Flannegan,) U. S. Coast Guard, telephone #6236 (upstairs). Give items 1 - 8 & 10 - 11. contacted 10/2/78 JRE

Items 1, 2, 5, 6, and 10 can be determined from the file if the company representative doesn't know them. Item 10 should be determined on a map in this office (see Bill Overstreet).

BLM Employee John K. Chambers

Transcontinental Gas Pipe Line Corporation

A Subsidiary of Transco Companies Inc.

2700 South Post Oak Road
P O Box 1396
Houston, Texas 77001
713-626-8100

September 29, 1978

P. O. Drawer "F"
Sabine Pass, TX 77655

U. S. Bureau of Land Management
Hale Boggs Building
500 Camp Street, Suite 841
New Orleans, LA 70131

Attn: Mr. J. Hunt

This letter is to advise you that our Contractor, J. Ray McDermott & Co. proposes to commence work on the lay of 16-inch pipeline in the Gulf of Mexico on October 3, 1978.

This work consists of the installation of approximately 6.83 miles of 16-inch pipeline, block 263 to block 265, East Cameron area, Offshore, Louisiana, covered by BLM permit #OCS-~~G~~3634

Yours truly,

IBCoward By RCC

I. B. Coward
Chief Inspector

IBC/ted

cc: M. J. Hunter

TRANSCONTINENTAL GAS PIPE LINE CORP.

Minor change noted
EHB.
4/10/78

Transcontinental Gas Pipe Line Corporation

A Subsidiary of Transco Companies Inc.

2700 South Post Oak Road
P O Box 1396
Houston, Texas 77001
713-626-8100

April 6, 1978

New Orleans OCS Office
Bureau of Land Management
Hale Boggs Federal Building
500 Camp Street, Suite 841
New Orleans, Louisiana 70130

Re: Design Information
OCS-G 3634
East Cameron Area, South Addition
Line 2-1010, R/W 1

Gentlemen:

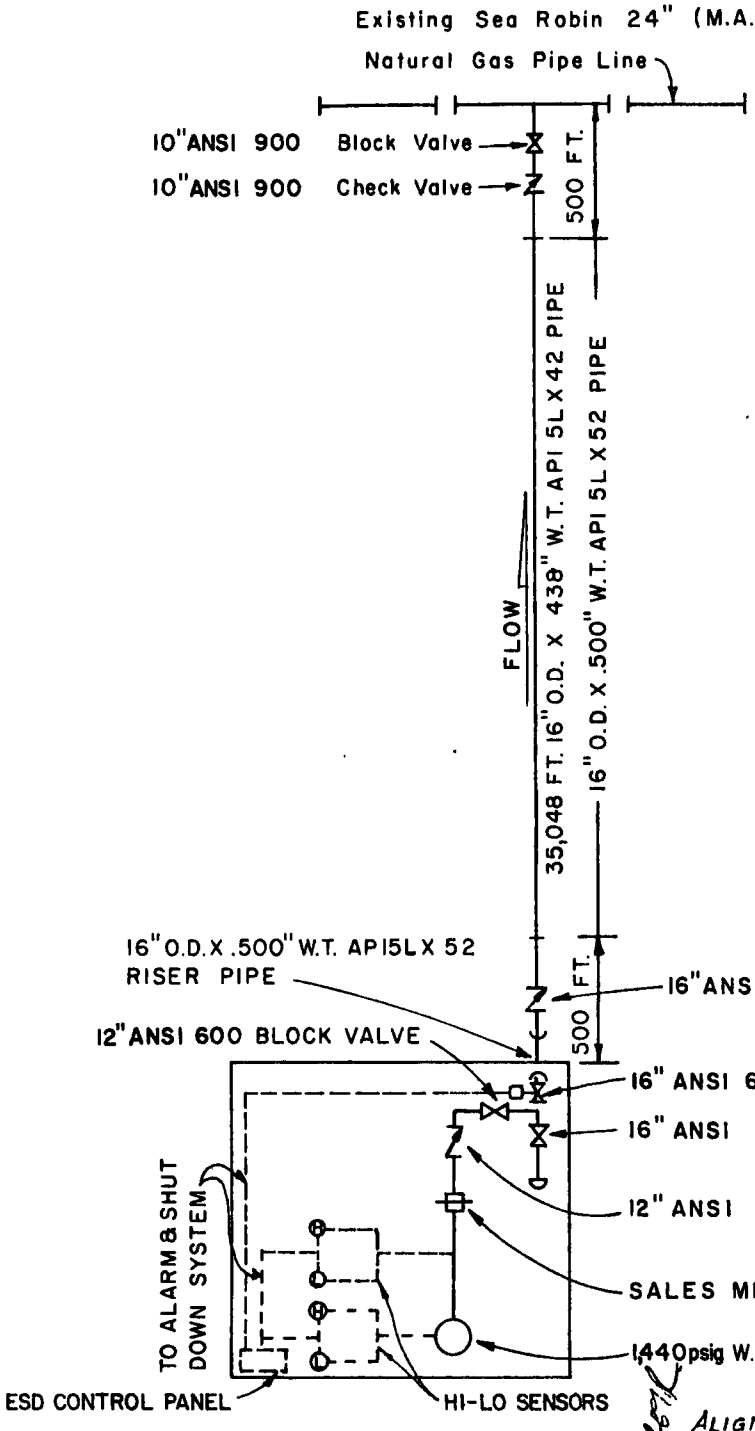
Transcontinental Gas Pipe Line Corporation filed an application dated August 19, 1977 for right of way pursuant to Section 5(c) of the Outer Continental Shelf Lands Act and was granted said right of way by Decision dated February 23, 1978, OCS-G 3634, for construction, operation and maintenance of a 16" natural gas pipe line.

Transcontinental now requests the Decision have incorporated certain design changes as reflected on the enclosed schematic, Drawing No. 88-1250/OS-18P-1, Revision No. 1, be made part of the additional information submitted with our application.

Very truly yours,

Edward L. Wibner, Jr.

ELW:sk
Enclosure



TRANSCO EXPLORATION COMPANY
EAST CAMERON AREA - SOUTH ADDITION
BLOCK 263 - PLATFORM

UNDER WATER TIE IN
EAST CAMERON AREA
SOUTH ADDITION
BLOCK 265

I hereby certify that the design characteristics of the pipeline comply with Department of Transportation Regulation Part 192 Title 49

RECEIVED
MAR 7 9 32 AM '78
BUR OF LAND MGMT
OUTER CONTINENTAL SHELF OFFICE
NEW ORLEANS, LA.

STATE OF LOUISIANA
C. T. ROSEBRUGH
REG. No. 4680
REGISTERED
PROFESSIONAL ENGINEER
MECHANICAL ENGINEERING

3-31-78
Date

4680
Number

ALIGNMENT MAP
REFERENCE DRAWINGS

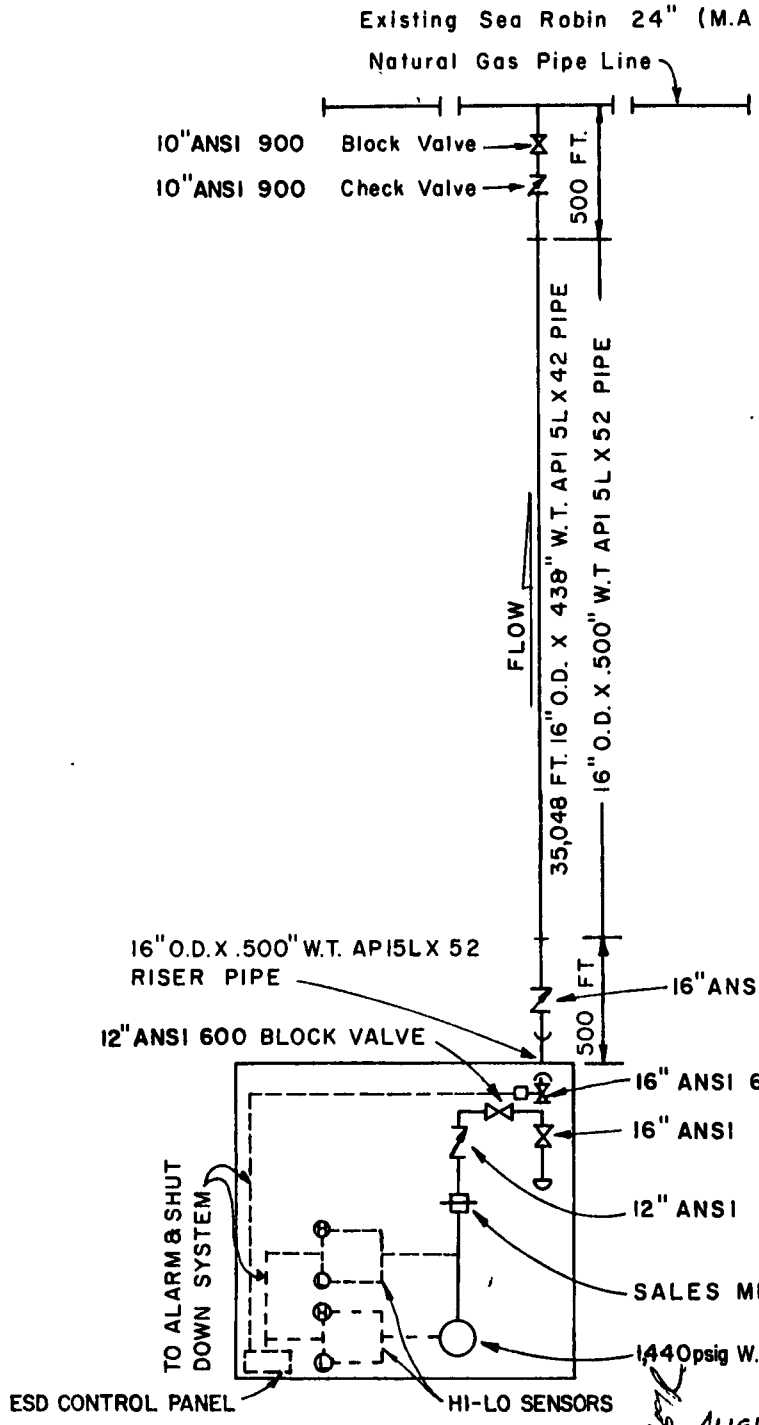
LO-M-7-P
DWG. NO.

NO.	DATE	BY	REVISION
1	3/14/78		Added Block Valve Oper. & Rev. Sizes & Ratings

TRANSCONTINENTAL GAS PIPE LINE CORP.
ENGINEERING DEPARTMENT HOUSTON, TEXAS

SCHEMATIC FLOW DIAGRAM
PROPOSED 16" PIPELINE
FROM BLK. 263 TO BLK. 265
EAST CAMERON AREA, SOUTH ADDITION

DRAWN BY m. b.	DATE 3-9-77	APPROVED BY HER	DATE 3/14/77
CHECKED BY	DATE	APPROVED BY	
APPVD. BY DRAFTING C.W.W.	DATE 3-10-77		ENGINEER
W.O. NO. 5286.01	SCALE NTS	G.P.-G.U.N. 88-1250	
	SHEET 1 OF 1	DWG. NO. OS-18P-1	



UNDER WATER TIE IN
EAST CAMERON AREA
SOUTH ADDITION
BLOCK 265

I hereby certify that the design characteristics of the pipeline comply with Department of Transportation Regulation Part 192, title 49

STATE OF LOUISIANA
C. T. ROSEBRUGH
REG. No. 4580
REGISTERED
PROFESSIONAL ENGINEER
MECHANICAL ENGINEERING

3-31-78
Date

4680
Number

TRANSCO EXPLORATION COMPANY
EAST CAMERON AREA - SOUTH ADDITION
BLOCK 263 - PLATFORM

ALIGNMENT MAP
REFERENCE DRAWINGS

LO-M-7-P
DWG. NO.

NO.	DATE	REVISION	BY
1	2/28	Added Block Valve Oper. & Rev. Sizes & Ratings	PK

TRANSCONTINENTAL GAS PIPE LINE CORP.

ENGINEERING DEPARTMENT — HOUSTON, TEXAS

SCHEMATIC FLOW DIAGRAM
PROPOSED 16" PIPELINE
FROM BLK. 263 TO BLK. 265
EAST CAMERON AREA, SOUTH ADDITION

DRAWN BY m. b.	DATE 3-9-77	APPROVED BY HER	DATE 3/31/77
CHECKED BY	DATE	APPROVED BY	ENGINEER
APPVD. BY DRAFTING C.W.W.	DATE 3-10-77		
W.O. NO. 5286.01	SCALE NTS	G.P.-G.U.N. 88-1250	
	SHEET 1 OF 1	DWG. NO. OS-18P-1	

RHS
3/2/78

SN 4876

3341 (400)

OCS-G 3634

East Cameron Area,
South Addition

CERTIFIED MAIL NO. 085283

February 23, 1978

DECISION

Transcontinental Gas Pipe Line Corporation

Right-of-way

Application Approved

The above application was filed for approval on August 25, 1977, pursuant to Sec. 5(c) of the Outer Continental Shelf Lands Act of August 7, 1953 (67 Stat. 462) and the regulations promulgated thereunder (43 CFR 2883).

This application is for a right-of-way 200 feet in width for the construction, maintenance, and operation of a 16-inch natural gas pipeline, 6.83 miles in length from Transco Exploration Company's platform in Block 263, East Cameron Area, South Addition, across Block 264, to a subsea tie-in with Sea Robin Pipeline Company's 24-inch gas pipeline in Block 265, East Cameron Area, South Addition, as shown on Drawing No. 22-0750 DI-A-015, Sheets 1 - 5 of 5 submitted with the application.

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

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

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

The annual rental for the pipeline is $35.00. Operator submitted two checks totaling $45.00 to cover the rental for 1978 and the required application fee of $10.00.

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

This application is approved under the express condition that all valves and taps will be buried to a minimum of one (1) foot below the mudline. The pipeline is to be laid at a depth of not less than three (3) feet below the mudline except at the pipeline crossings. The pipeline crossings are to be

(NOTED) PAU

NOTED—MC INTOSH

(NOTED) PAUSINA

designed in accordance with the specifications submitted in the application. If in the future the pipeline crossings prove to be an obstruction to commercial fishing activities, their subsequent burial to a depth specified by the Manager may later be required.

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

Design characteristics of this pipeline are:

Pipeline Nomenclature	Maximum Allowable Pressure/WP Ratings
Submerged component	1,656 psig
Riser component	1,625 psig
Piping, fittings, valves	1,440 psig

Preinstallation hydrostatic pressure test with water will be conducted on the riser component at 2,925 psig for a minimum of four (4) hours. Hydrostatic pressure test with water will be 2,069 psig for eight (8) hours.

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

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

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

H. P. Sieverding
Acting Manager

Enclosures (2)

cc: Geological Survey, USDI
Office of Pipeline Safety Operations, USDT

United States Department of the Interior

GEOLOGICAL SURVEY

434 IMPERIAL OFFICE BLDG , 3301 N CAUSEWAY BLVD

P. O BOX 7944

METAIRIE, LOUISIANA 70010

TEL (504) 837-4720

Memorandum

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

From: Acting Conservation Manager, Gulf of Mexico OCS Operations

Subject: Transcontinental Gas Pipe Line Corporation's Pipeline Right-of-Way Application, BLM OCS-G 3634, Reference 3341 (400)

We have reviewed the safety features and design specifications for the subject Right-of-Way Application, dated August 19, 1977, in accordance with the MOU dated August 1, 1974. It is for the construction, maintenance, and operation of a 16-inch gas pipeline 35,048 feet in length from Transco Exploration Company's platform, East Cameron Block 263, lease OCS-G 3299, to a subsea tie-in with Sea Robin Pipeline Company's 24-inch gas pipeline (BLM OCS-G 1907) East Cameron Block 265, lease OCS-G 0972.

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

Pipeline Component	Maximum Allowable Operating Pressure/WP Ratings
Submerged component	1,656 psig
Riser component	1,625 psig
Piping, fittings, valves	1,440 psig

A preinstallation hydrostatic pressure test with water will be conducted on the riser component at 2,925 psig for a minimum of four hours. A hydrostatic pressure test with water will be conducted on the pipeline at 2,069 for eight hours.

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

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

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

Lowell S Hammons

Acting Conservation Manager

UNITED STATES GOVERNMENT

Memorandum

DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

IN REPLY REFER TO:
3341 (400)

PRODUCTION CONTROL
PIPELINE SECTION

TO : Conservation Manager
Gulf of Mexico OCS Operations

Date: September 1, 1977

FROM : Manager
New Orleans OCS Office

SUBJECT : Transcontinental Gas Pipeline Corporation's Right-of-Way Application (OCS-G 3634)

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

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

Enclosures
1-Application dated August 19, 1977
2-Drawings No. D1-A-015, Sheets 1-5 and OS-18P-1

NOTED-MC INTOSH

DSC-1541-2
Mar. 1974

Transcontinental Gas Pipe Line Corporation

A Subsidiary of Transco Companies Inc.

2700 South Post Oak Road
P. O. Box 1396
Houston, Texas 77001
713-626-8100

August 19, 1977

New Orleans OCS Office
Bureau of Land Management
Hale Boggs Federal Building
Suite 841
500 Camp Street
New Orleans, Louisiana 70130

Re: Transcontinental Gas Pipe Line Corporation
Proposed Pipe Line Application
Offshore Louisiana
East Cameron Area, South Addition
Gulf of Mexico
Line 2-1010, R/W 1

Gentlemen:

Pursuant to the authority granted in Section 5 (c) of the Outer Continental Shelf Lands Act of August 7, 1953, (67 Stat. 464), and in compliance with the regulations contained in Title 43 CFR 2883, Transcontinental Gas Pipe Line Corporation hereby applies, in duplicate, for a right of way two hundred feet (200 ft.) in width to construct, maintain, and operate a pipeline as shown on the following drawings attached hereto and made a part hereof:

Proposed 16" Pipe Line
Block 263 East Cameron
Area, South Addition
to Block 265 East Cameron
Area, South Addition
Drawing Numbers 22-0750/
DI-A-015, 88-1250/
OS-18P-1, 22-0600/
LO-M-7-P6A and 22-0700/
LO-N-14-P6

The pipeline will be used to gather and transport natural gas and condensate from Block 263, East Cameron Area, South Addition, to an existing 24" pipeline in Block 265, East Cameron Area, South Addition, in the Gulf of Mexico.

The tentative construction date for this pipeline is June 1, 1978.

In accordance with applicable regulations, the applicant states that it will mail to each lessee or right of way holder whose lease or right of way is affected by this application, by registered mail, return receipt requested, a copy of this application and the maps attached hereto. A list of such lessees and right of way holders is attached and copies of the return receipts showing service upon such lessees and holders will be forwarded to your office when received.

As set forth in the April 1, 1976, guidelines, as amended, the applicant agrees to the following:

1. All valves and taps will be buried to a minimum of 1 ft. coverage.

2. A hazard survey report of the proposed right of way route is included with the application (2 copies).

3. An archaeological survey report is attached (2 copies).

4. An as-built survey establishing the location of the completed pipeline within an accuracy of ± 100 feet, an as-built map along with a copy of the diving inspector's report will be provided within 90 days after completion of the line, in accordance with the guidelines.

5. Sensing devices and fail close valves are reflected on Drawing 88-1250/OS-18P-1.

6. The proposed 16" pipeline will be buried to a minimum of three feet below the mud line except at the proposed pipeline crossings in Blocks 264 and 263 ECA,SA, shown on Drawings 22-0600/LO-M-7-P6A and 22-0700/LO-N-14-P6. The top of the proposed pipeline will be laid flush with the Gulf's bottom crossing the graben-like fault zone outlined in the Hazard Survey Report prepared for Transcontinental by Oceanonics, Inc., June, 1977.

Each pipeline crossing has a minimum separation of 12 inches in order to provide sufficient cover over the proposed pipeline without lowering the existing lines.

7. Proper notification prior to construction and hydrostatic testing as set forth in the guidelines will be adhered to.

8. Any breaks, leak failures, or accidents will be reported as required.

9. The products to be transported are natural gas and condensates.

10. 16" Pipeline: From the existing Transco Exploration Company Platform "A" in Block 263, East Cameron Area, South Addition, to an existing underwater tap valve in Block 265, East Cameron Area, South Addition.

    Pipeline and Riser:

    16" O.D. x .438" W.T. API Grade X-42 DSA, expanded, 72.716 lbs. per foot. Designed per 49 CFR 192.

    16" O.D. x .500" W.T. API 5LX Grade X-52 DSA, expanded, 82.770 lbs. per foot. Designed per 49 CFR 192.

    The products to be transported are sweet natural gas and condensate, neither of which is corrosive to carbon steel pipe interior. However, the analysis of the transported product will be monitored and preventive measures such as pigging and/or inhibiting will be employed as necessary.

11. The sacrificial anode system used for corrosion protection on this pipeline is described on Drawing 22-0750/DI-A-015, Sheet 5 of 5. Calculations used in designing system are also provided on the drawing.

12. Protective coating to be used on the 16" O.D. x .438" W.T. will be 9/16" thick mastic and 1-1/4" thick concrete (140 PCF) and 9/16" thick mastic and 1" thick concrete (140 PCF) on the 16" O.D. x .500" W.T. pipe.

13. The bulk specific gravity for the pipe in sea water is:

Size of Pipe	Specific Gravity
16" O.D. x .438" W.T.	1.26
16" O.D. x .500" W.T.	1.29

14. Anticipated specific gravity of the products are:

    Gas = 0.60 (air)
    Condensate = 0.70 (water)

15. Operating Pressures: Maximum = 1440 psig
    Minimum = 500 psig

16. Maximum allowable operating pressure and capacity:

    Maximum allowable operating pressure per 49 CFR 192 psig for pipeline and riser is 1440 psig as shown below.

    Maximum allowable capacity = 125 MMCF/D

    Calculations:

    $$MAOP = \frac{2st}{d} \times (F)(E)(T) \quad \text{or} \quad \frac{\text{Hydrostatic Test Pressure}^*}{\text{Factor}}$$

    Where: F = 0.72 (Class 1) or 0.50 (Class 3)
    E = 1 for DSA welded pipe
    T = 1 for temperature less than 250° F
    Factor = 1.1 or 1.5 per 49 CFR 192.619

    $$MAOP = \frac{2 \times 42{,}000 \times .438"}{16"} \times .72 \times 1 \times 1 \text{ or } \frac{2069}{1.1}^*$$

    = 1655 psig or 1880 psig

    $$MAOP = \frac{2 \times 52{,}000 \times .500"}{16"} \times .50 \times 1 \times 1 \text{ or } \frac{2925}{1.5}^*$$

    = 1625 psig or 1950 psig

    *For computation of test pressures, see Item 17.

    Valves and flanges rate as American Natural Standard Institute (ANSI) 600 series and meet the requirements of 49 CFR 192.145 and .147. W.P. = 600 x 2.4 = 1440 psig at 100° F.

    Therefore, the valve and flange working pressure rules, so maximum allowable pressure is 1440 psig.

17. The pipeline will be hydrostatically tested for eight (8) hours at 2069 psig.

Calculations:

Test Pressure = $\frac{2st\%}{d}$

(1) T.P. = $\frac{2 \times 52{,}000 \times .500"}{16"} \times 90\% = 2925$ psig

(2) T.P. = $\frac{2 \times 42{,}000 \times .438"}{16"} \times 90\% = 2069$ psig

18. An originally signed copy of Non-Discrimination in Employment stipulation is enclosed with the application.

19. Company Contact:

Mr. Paul E. Newton, Senior Permit Engineer
Transcontinental Gas Pipe Line Corporation
P. O. Box 1396
Houston, Texas 77001
Telephone Number (713) 626-8100

Enclosed are three copies each of the maps and drawings referred to above, prepared and certified in accordance with applicable guidelines.

Also enclosed is an additional information attachment of three pages captioned "43 CFR 2883 - April 1976, Amended 1 February 1977 and 21 April 1977". This information is numbered to correspond with the sub-sections of the Application portion of the guidelines.

A certified copy of the articles of incorporation and a certificate of the Assistant Secretary, 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 and identified as New Orleans Miscellaneous File No. 011. Also enclosed is a filing fee of $10.00, together with the first year's rental of $35.00 computed on 6.80 miles of right of way. Inquiries concerning this application may be directed to the applicant's representative designated herein.

Upon granting the right of way, Transcontinental Gas Pipe Line Corporation agrees to abide by the terms and conditions of the aforementioned U. S. Government Regulations.

If the above and attached information meets with your approval, we would appreciate your issuing the necessary permit at your earliest convenience.

Yours very truly,

TRANSCONTINENTAL GAS PIPE LINE
CORPORATION

By: Jay C McElroy
Vice President

Enclosures

LESSEES AND RIGHT OF WAY HOLDERS
EAST CAMERON AREA, SOUTH ADDITION

Block 263

Right of Way

OCS-G-2122

Stingray Pipeline Company

OCS-G-1950P

Texas Eastern Transmission Corporation

Oil and Gas

OCS-G-3299

Transco Exploration Company
McMoRan Exploration Company
MESA Petroleum Co.

Block 264

Right of Way

OCS-G-2122-C

Stingray Pipeline Company

OCS-G-1950-H

Texas Eastern Transmission Corporation

OCS-G-1907-D

Sea Robin Pipeline Company

Oil and Gas

OCS-G-1880

Tenneco Oil Company
Amoco Production Company

Block 265

Right of Way

OCS-G-1907, OCS-G-1907-D,
OCS-G-1907-L, OCS-G-1907-AE

Sea Robin Pipeline Company

OCS-G-1950-C, OCS-G-1950-H

Texas Eastern Transmission Corporation

OCS-G-2122-C

Stingray Pipeline Company

Oil and Gas

OCS-G-0972

Texaco, Inc.
Amoco Production Company

43 CFR 2883 - 1 April 1976

Amended 1 February 1977 and 21 April 1977

The following information is in accordance with the above guidelines.

Part II. D. Application

2. Agreements

a and b. The proposed 16" pipeline will be buried to a minimum of three feet below the mud line except at pipeline crossings and the graben-like fault zone as shown on Drawing 22-0750/DI-A-015, Sheet 3 of 5.

c. The proposed pipeline crosses two existing pipelines. Details of crossing the 20" Stingray Pipeline in East Cameron Block 264 are shown on Drawing 22-0600/LO-M-7-P6A. Details of crossing the Texas Eastern Transmission 30" pipeline are shown on Drawing 22-0700/LO-N-14-P6.

Each of these pipeline crossings has a minimum separation of 12 inches in order to provide sufficient cover over the proposed pipeline without lowering the existing lines.

d. The Hazard Survey Report by Oceanonics, Inc. is attached. The only natural hazard located along the centerline of the proposed right-of-way is a graben-like feature discussed in the report. Following the recommendations of the report, in crossing the graben zone the top of the pipe will be layed flush with the Gulf bottom.

e. The Archaeological Survey Report by Oceanonics, Inc. is attached. No indication of any cultural resources was found on any of the survey lines.

f. As-built drawings will be provided within 90 days after completion as required.

g. Location of sensing devices are shown on Drawing No. 88-1250/OS-18P-1.

h, i, j and k. Information will be provided as required.

3. Map Depicting Proposed Route

Drawing No. 22-0750/DI-A-015, Sheets 1, 2, 3 and 4 of 5 are maps showing the information requested in Paragraphs a through g.

4. Schematic

A certified schematic drawing showing all safety equipment relating to the proposed pipeline is included as Drawing No. 88-1250/OS-18P-1.

5. Additional Information

a. Company engineer to contact on technical points:

Paul E. Newton
Transcontinental Gas Pipe Line Corporation
P. O. Box 1396
Houston, Texas 77001
Telephone: 713/626-8100 Ext. 784

b. Middle 35,048 feet of pipeline
16" O.D. x .438" W.T. API Grade X-42 DSA, expanded, 72.716 lbs. per foot. Designed per 49 CFR 192.

500 feet of pipe on each end of line and riser
16" O.D. x .500" W.T. API 5LX Grade X-52 DSA, expanded, 82.770 lbs. per foot. Designed per 49 CFR 192.

c. The sacrificial anode system used for corrosion protection on this pipeline is described on Drawing 22-0750/DI-A-015, Sheet 5 of 5. Calculations used in designing system are also provided on the drawing.

d. External Pipeline Coating

16" O.D. x .438" W.T. - 9/16" thick mastic and 1-1/4" thick concrete, 140 pcf.

16" O.D. x .500" W.T. - 9/16" thick mastic and 1" thick concrete, 140 pcf.

e. Internal Protective Measures of Piping
The products to be transported are sweet natural gas and condensate, neither of which is corrosive to carbon steel pipe interior. However, the analysis of the transported products will be monitored and preventive measures such as pigging and/or inhibiting will be employed as necessary.

f. Specific Gravity of Empty Pipe
16" O.D. x .438" W.T. = 1.26
16" O.D. x .500" W.T. = 1.29

g. Anticipated Specific Gravity of Products Are:
Gas = 0.60 (air)
Condensate = 0.70 (water)

h. Maximum and Minimum Operating Pressure
Maximum = 1440 psig
Minimum = 500 psig

i. Maximum Allowable Pressure and Capacity

(1) Capacity = 125 MMCFD

(2) Maximum Allowable Pressure per 49 CFR 192 for pipeline and riser is 1440 psig as shown below.

$$MAOP = \frac{2st}{d} \times (F)(E)(T) \text{ or } \frac{\text{Hydrostatic Test Pressure}}{\text{Factor}}*$$

Where: F = 0.72 (Class 1) or 0.50 (Class 3)
E = 1 for DSA welded pipe
T = 1 for temperature less than 250°F
Factor = 1.1 or 1.5 per 49 CFR 192.619

(a) $MAOP = \frac{2 \times 42{,}000 \times .438"}{16"} \times .72 \times 1 \times 1$ or $\frac{2069}{1.1}$*

$= 1655$ psig or 1880 psig

(b) $MAOP = \frac{2 \times 52{,}000 \times .500"}{16"} \times .50 \times 1 \times 1$ or $\frac{2925}{1.5}$*

$= 1625$ psig or 1950 psig

(3) Valves and flanges rate as American National Standard Institute (ANSI) 600 series and meet the requirements of 49 CFR 192.145 and .147. W.P. = 600 x 2.4 = 1440 psig @ 100°F.

(4) Therefore, the Maximum Allowable Operating Pressure of this pipeline system is 1440 psig.

*See Item j for hydrostatic test pressure calculations.

j. Hydrostatic Test Pressure
The pipeline will be hydrostatically tested at 2069 psig for eight (8) hours.

Calculations:

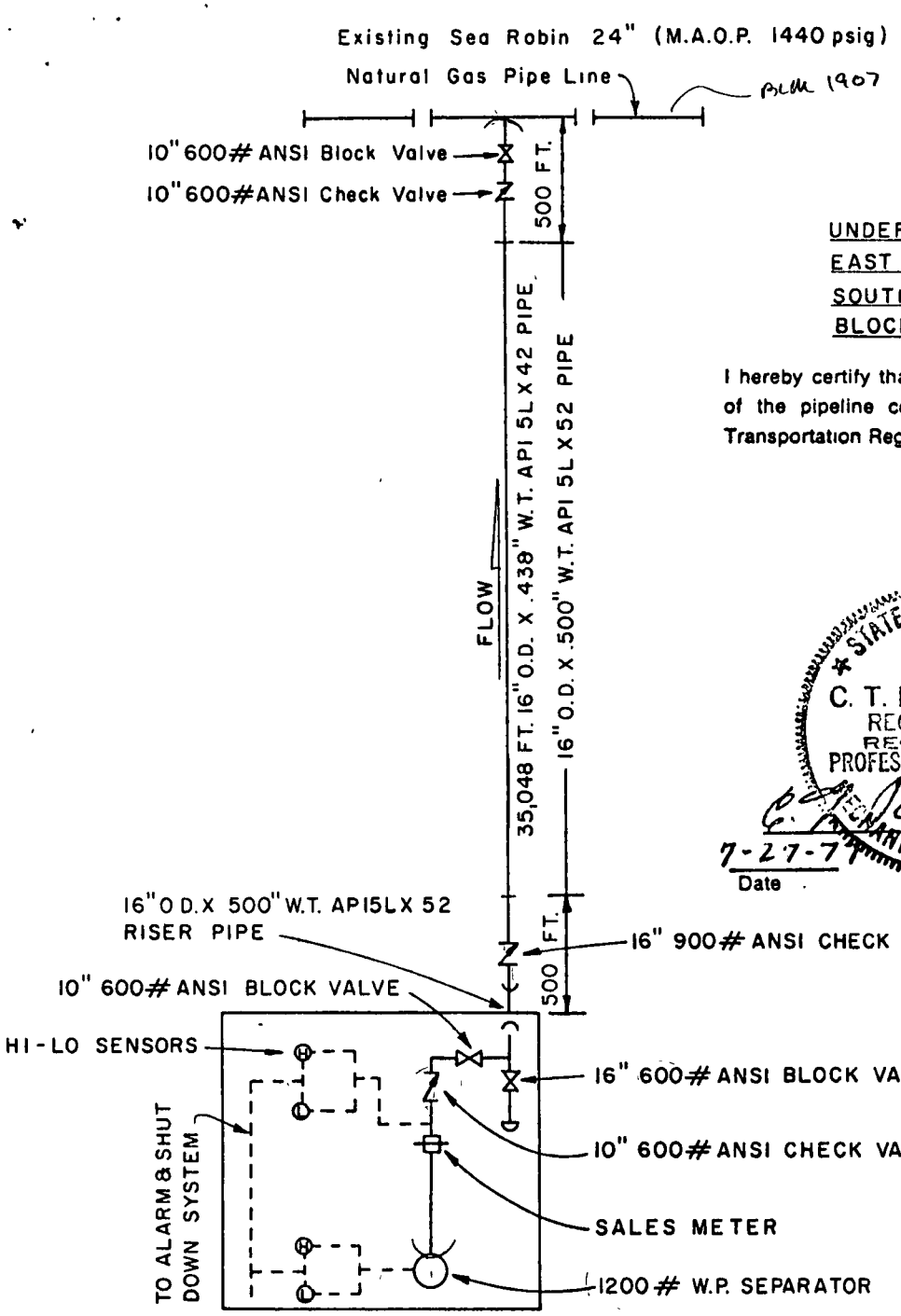
$$\text{Test Pressure} = \frac{2st\%}{d}$$

(1) $T.P. = \frac{2 \times 52{,}000 \times .500"}{16"} \times 90\% = 2925$ psig

(2) $T.P. = \frac{2 \times 42{,}000 \times .438" \times 90\%}{16"} = 2069$ psig

k. N/A

BEST AVAILABLE COPY



UNDER WATER TIE IN
EAST CAMERON AREA
SOUTH ADDITION
BLOCK 265

I hereby certify that the design characteristics of the pipeline comply with Department of Transportation Regulation Part 192, title 49

STATE OF LOUISIANA
C. T. ROSEBRUGH
REG. No. 4680
REGISTERED
PROFESSIONAL ENGINEER
IN MECHANICAL ENGINEERING

7-27-77 Date

4680 Number

RECEIVED
AUG 25 9 58 AM '77
BUR OF LAND MGMT.
OUTER CONTINENTAL
SHELF OFFICE
NEW ORLEANS, LA.

TRANSCO EXPLORATION COMPANY
EAST CAMERON AREA - SOUTH ADDITION
BLOCK 263 - PLATFORM

ALIGNMENT MAP — LO-M-7-P
REFERENCE DRAWINGS — DWG. NO.

TRANSCONTINENTAL GAS PIPE LINE CORP.
ENGINEERING DEPARTMENT — HOUSTON, TEXAS

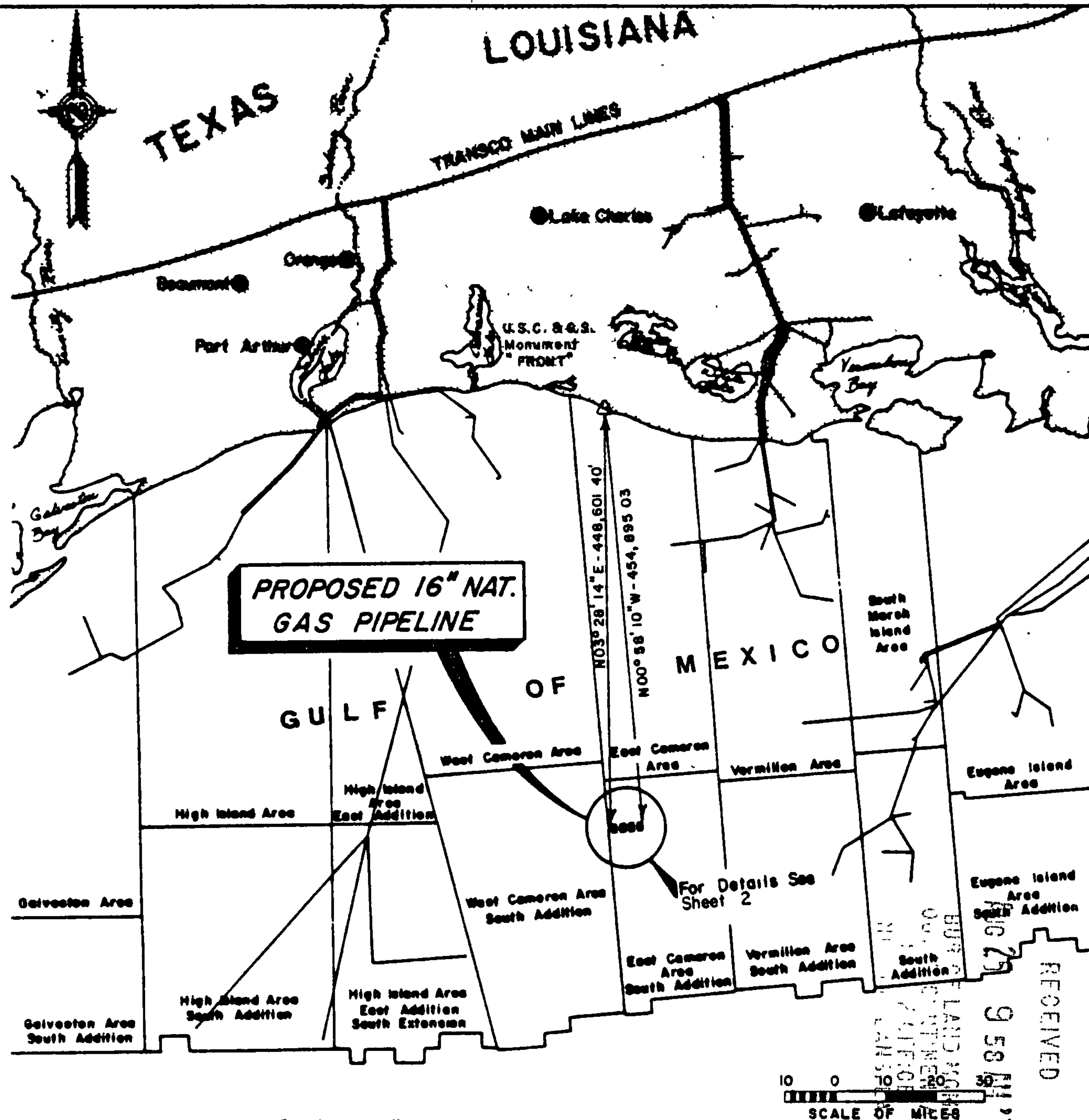
SCHEMATIC FLOW DIAGRAM
PROPOSED 16" PIPELINE
FROM BLK. 263 TO BLK. 265
EAST CAMERON AREA, SOUTH ADDITION

DRAWN BY m. b.	DATE 3-9-77	APPROVED BY HEP	DATE 3-4-77
CHECKED BY	DATE	APPROVED BY	ENGINEER
APPVD BY DRAFTING CWW.	DATE 3-10-77		
W.O. NO 5286.01	SCALE NTS	G.P.-G.U.N. 88-1250	
	SHEET OF	DWG. NO. OS-18P-1	

BY | REVISION | DATE | NO.

OCS-G 3634

BEST AVAILABLE COPY



RECEIVED
AUG 2 1977
9 58 AM

I hereby certify that the design of the Pipeline complies with Department of transportation Regulation Part 192, Title 49, and that this map accurately reflects the center line of the proposed Pipeline right-of-way.

R. J. Jurlak
MANAGER OF CONSTRUCTION DIVISION

REG. NO. 11416 DATE 7-1-77

Transcontinental Gas Pipe Line Corporation
A Subsidiary of Transco Companies Inc.
Engineering Department
Houston, Texas

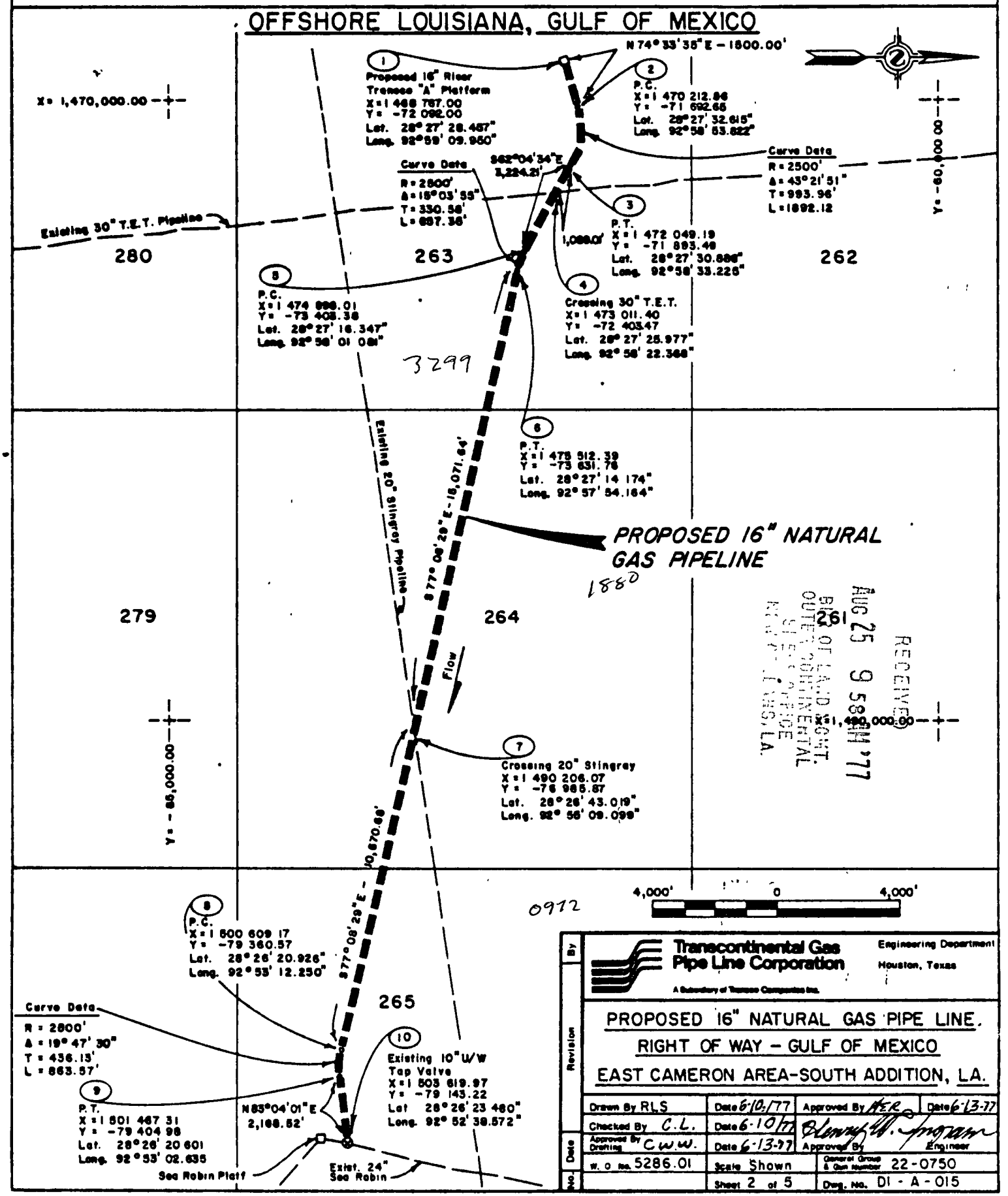
PROPOSED 16" NATURAL GAS PIPE LINE
RIGHT OF WAY - GULF OF MEXICO
EAST CAMERON AREA-SOUTH ADDITION, LA.

Drawn By RLS	Date 6-10/77	Approved By HEC	Date 6-13-77
Checked By C.L.	Date 6-10/77	Approved By	Engineer
Approved By Drafting CWW	Date 6-13-77		
W. O. No. 5286.01	Scale	General Group & Gas Number 22-0750	
	Sheet 1 of 5	Dwg. No. D1-A-015	

OCS-G 3634

BEST AVAILABLE COPY

OFFSHORE LOUISIANA, GULF OF MEXICO



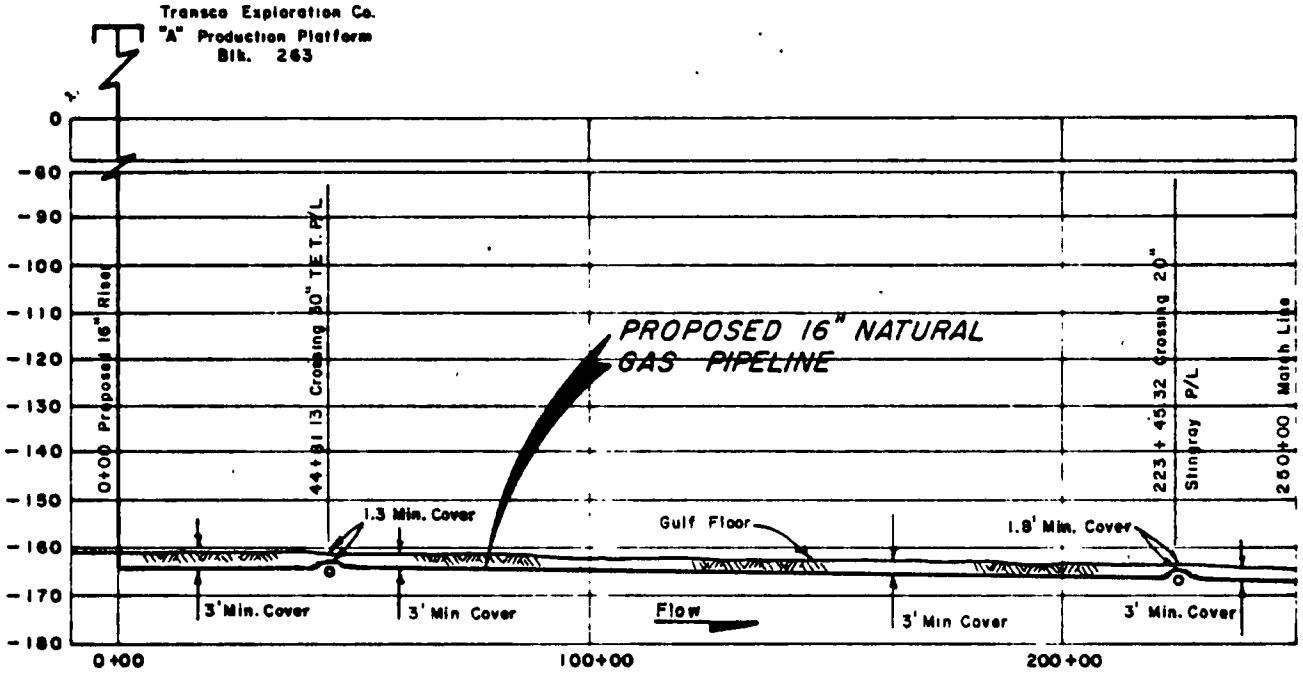
RECEIVED
AUG 25 9 58 AM '77
BUREAU OF LAND MGMT.
OUTER CONTINENTAL
SHELF OFFICE
METAIRIE, LA.

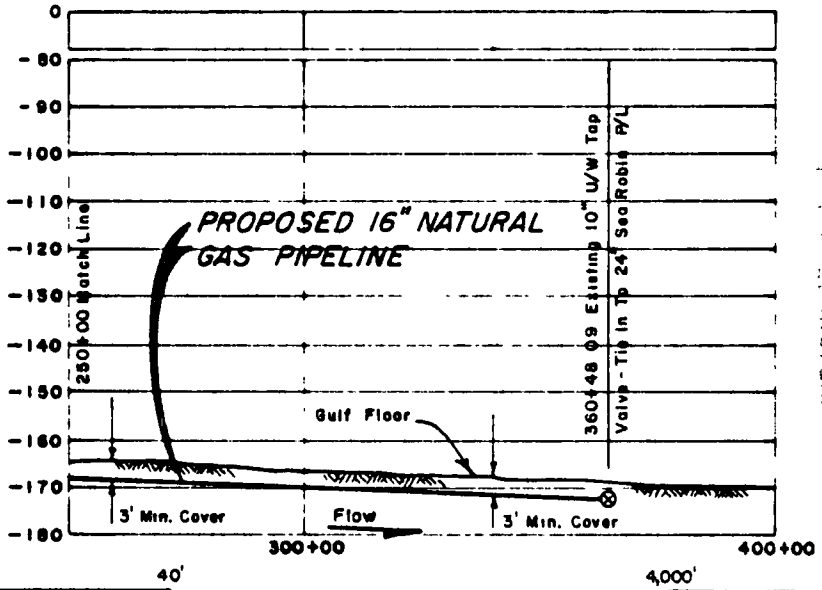
Transcontinental Gas Pipe Line Corporation
A Subsidiary of Transco Companies Inc.
Engineering Department
Houston, Texas

PROPOSED 16" NATURAL GAS PIPE LINE.
RIGHT OF WAY - GULF OF MEXICO
EAST CAMERON AREA-SOUTH ADDITION, LA.

Drawn By RLS	Date 6-10-77	Approved By KER	Date 6-13-77
Checked By C.L.	Date 6-10-77	Approved By Glenn W. Ingram	Engineer
Approved By Drafting C.W.W.	Date 6-13-77		
W. O. No. 5286.01	Scale Shown	General Group & Gas Number 22-0750	
	Sheet 2 of 5	Dwg. No. DI - A - 015	

By / Revision / Date / No.





40' 0 40'
VERTICAL SCALE

PROFILE

4,000' 4,000'
HORIZONTAL SCALE

Transcontinental Gas Pipe Line Corporation
A Subsidiary of Transco Companies Inc.
Engineering Department
Houston, Texas

PROPOSED 16" NATURAL GAS PIPE LINE
RIGHT OF WAY - GULF OF MEXICO
EAST CAMERON AREA-SOUTH ADDITION, LA.

Drawn By RLS	Date 6/10/77	Approved By [illegible]	Date 6-13-77
Checked By C.L	Date 6-10-77	[signature]	
Approved By Drafting C.W.W.	Date 6-13-77	Approved By [signature] Engineer	
W O No. 5286.01	Scale Shown	General Group & Gen Number 22-0750	
	Sheet 3 of 5	Dwg. No. DI-A-015	

By | Revision | Date | No.

PROPOSED 16" FROM BLOCK 263 TO BLOCK 265 EAST CAMERON AREA

PT NO.	BEARING	DISTANCE	Y	X	LATITUDE	LONGITUDE	REMARKS
1			-72,092.00	1,468,767 00	28° 27' 28.457"	92° 59' 09.950"	CENTER PROPOSED RISER BLOCK 263
1-2	N 74° 33' 35" E	1,500.00'	-71,692.65	1,470,212.86	28° 27' 32.615"	92° 58' 53.822"	P. C. CURVE BLOCK 263
2-3	CURVE	1,892.12'	-71,893.49	1,472,049.19	28° 27' 30 888"	92° 58' 33.225"	P T. CURVE BLOCK 263
3-4	S 62° 04' 34" E	1,089.01'	-72,403.47	1,473,011.40	28° 27' 25.977"	92° 58' 22.368"	30" T E.T PIPELINE CROSSING
4-5	S 62° 04' 34" E	2,135.20'	-73,403.38	1,474,898.01	28° 27' 16.347"	92° 58' 01 081"	P C. CURVE BLOCK 263
5-6	CURVE	657.35'	-73,631 76	1,475,512.39	28° 27' 14.174"	92° 57' 54 164"	P T CURVE BLOCK 263
6-7	S 77° 08' 29" E	15,071 64'	-76,985.87	1,490,206.07	28° 26' 43.019"	92° 55' 09.099"	20" STINGRAY PIPELINE CROSSING
7-8	S 77° 08' 29" E	10,670.68'	-79,360.57	1,500,609.17	28° 26' 20 926"	92° 53' 12.250"	P C. CURVE BLOCK 265
8-9	CURVE	863.57'	-79,404 98	1,501 467 31	28° 26' 20 601"	92° 53' 02.635"	P T CURVE BLOCK 265
9-10	N 83° 04' 01" E	2,168.52'	-79,143.22	1,503,619.97	28° 26' 23.480"	92° 52' 38.572"	UNDERWATER VALVE BLOCK 265
TOTAL = 36,048.09 (6.827 MILES) PROPOSED 16" PIPELINE							

GENERAL NOTES APPLICABLE TO PROPOSED PIPELINE CONTAINED HEREIN·

1. Pipeline contained herein will be used to transport Natural Gas from the Louisiana Outer Continental Shelf to the Northeastern Area of the United states.
2. Proposed permanent right-of-way will be 200' wide.
3. Courses and distances are based on Louisiana Lambert (South Zone) Grid.
4. Proposed pipeline depicted herein will be installed by Lay Barge and will be buried by jetting, thereby spreading the spoil so as not to build up the original Gulf botton over one half foot.
5. Proposed pipeline will be installed in a trench to provide the minimum cover as shown on profile drawings (sheet 3 of 5).
6. Elevations (L.W.L.) as shown, were recorded by pneumogauge during underwater inspection by divers.

Transcontinental Gas Pipe Line Corporation
A Subsidiary of Transco Companies Inc.
Engineering Department
Houston, Texas

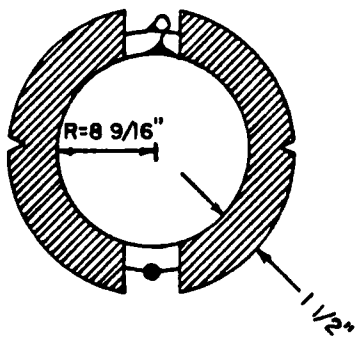
PROPOSED 16" NATURAL GAS PIPE LINE
RIGHT OF WAY - GULF OF MEXICO
EAST CAMERON AREA-SOUTH ADDITION, LA.

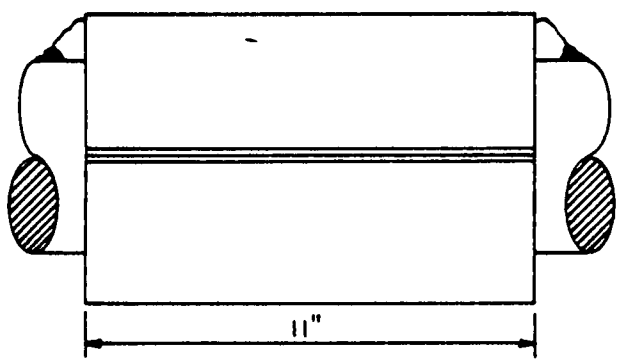
Drawn By RLS	Date 6-10-77	Approved By [illegible]	Date 6-13-77
Checked By C.L.	Date 6-10-77	Approved By Henry W. Engineer	
Approved By Drafting C.W.W	Date 6-13-77		
W. O. No. 5286 01	Scale None	General Group & Gas Number 22-0750	
	Sheet 4 of 5	Dwg. No. 01 - A - 015	

Revision By Date No.

PROPOSED 16" RISER AT TRANSCO EXPLORATION COMPANY 263A PLATFORM TO EXISTING 10" UNDERWATER TIE-IN — BLOCK 265

GALVALUM II BRACELETS





Weight 116 lbs.

Scale: N. T. S.

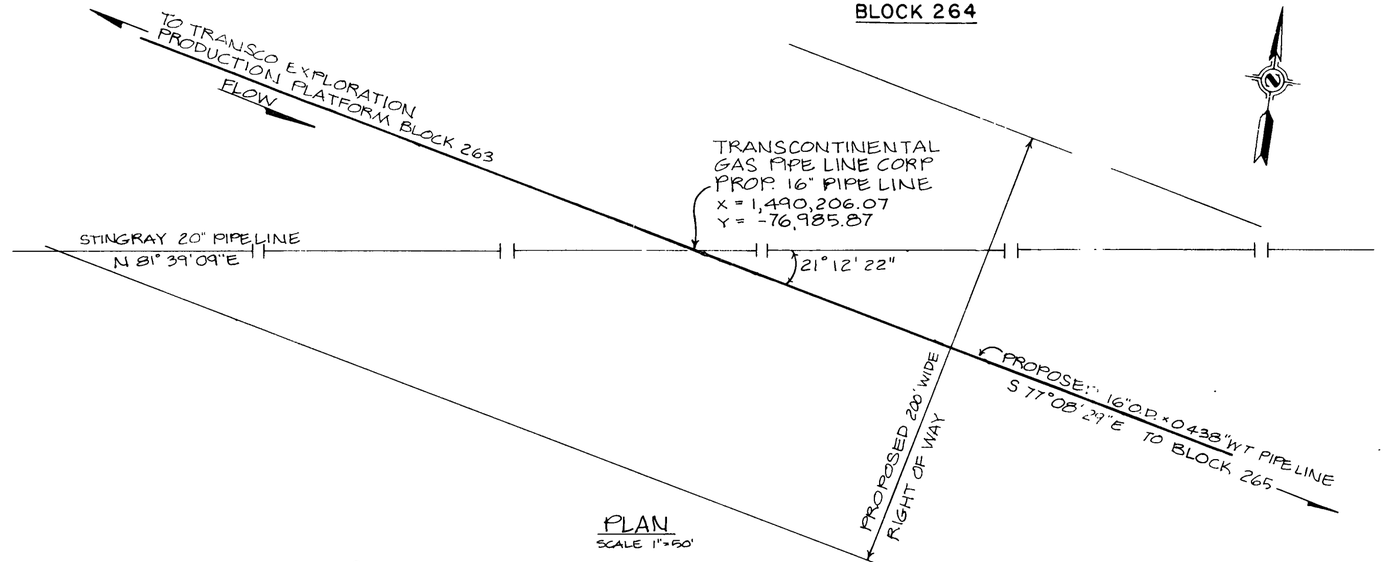
NOTES:

1. Galvalum II Anodes Theoretical Rating = $\frac{0.1530 \text{ Amp. Year}}{\text{Lb.}}$
   Practical = 0.1530 × 80% effective × 85% use factor = $\frac{0.104 \text{ Amp. Year}}{\text{Lb.}}$
2. Assuming 2% Damaged Coating and .005 Amperes Per Square Foot Required for Protection.
   Current Required = CR
   CR = Total Area x 0.02 x 0.005
   = 150997.5 x 0.0001
   CR = 15.1 Amps
3. Pounds of Galvalum II Required for 40 Yers Protection:
3. Lbs. = (15.1 Amperes/$\frac{0.104 \text{ Amp. Year}}{\text{Lb.}}$) x 40 Years
   Lb = 5807.7
4. 17.125" I.D. Galvalum II Anodes: 116 Lbs. Each
   Number of Anodes Required = N.R.
   N.R. = 5807.7 ÷ 116
   N.R. = 50.66 or 51
5. 51 - 17.125" I.D. Galvalum II Anodes on 706' foot spacing will be installed on this line. There will be 2 Anodes placed on riser Assembly.
6. Pipeline to Environment Voltages will be observed at the Platform after the line is in place to assure that adequate corrosion protection is being provided.
7. Total number anodes required 53

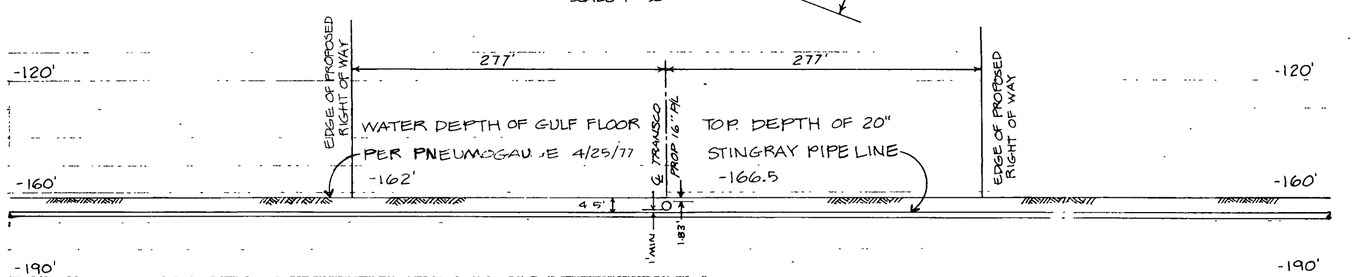
Transcontinental Gas Pipe Line Corporation — A Subsidiary of Transco Companies Inc.		Engineering Department, Houston, Texas	
PROPOSED 16" NATURAL GAS PIPE LINE			
RIGHT OF WAY - GULF OF MEXICO			
EAST CAMERON AREA-SOUTH ADDITION, LA.			
Drawn By RLS	Date 6/10/77	Approved By	Date
Checked By C.L.	Date 6/15/77	Approved By	Engineer
Approved By Drafting	Date		
W. O. No. 5286.01	Scale None	General Group & Gas Number	22-0750
	Sheet 5 of 5	Dwg. No.	DI - A - 015

By / Revision / Date / No.

EAST CAMERON AREA, SOUTH ADDITION
BLOCK 264

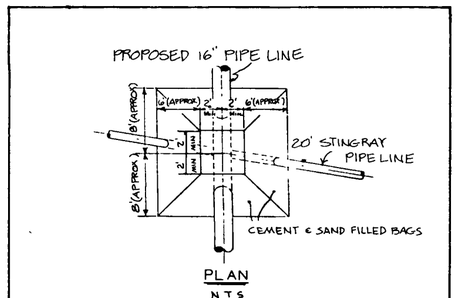


PLAN
SCALE 1"=50'

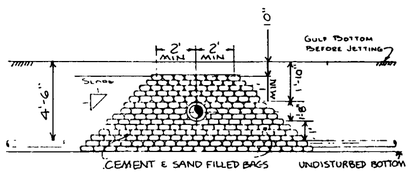


PROFILE
SCALE 1" = 100' HOR
1" = 40' VER

NOTES:
1) Coordinates, Bearings and Distances Shown Are Based on Louisiana Lambert Grid, South Zone



PLAN
NTS



ELEVATION
N.T.S

CEMENT BAG DETAIL

NOTES
(1) Cement & sand mixture shall be 1 to 3 parts by weight
(2) Bags shall be made of closely woven material with a wicking action
(3) After filling the bag it shall be closed by sewing or the equivalent but not by bunching and tying the ends

ALIGNMENT SHEET LO-M-7-P
REFERENCE DRAWING DWG. NO.

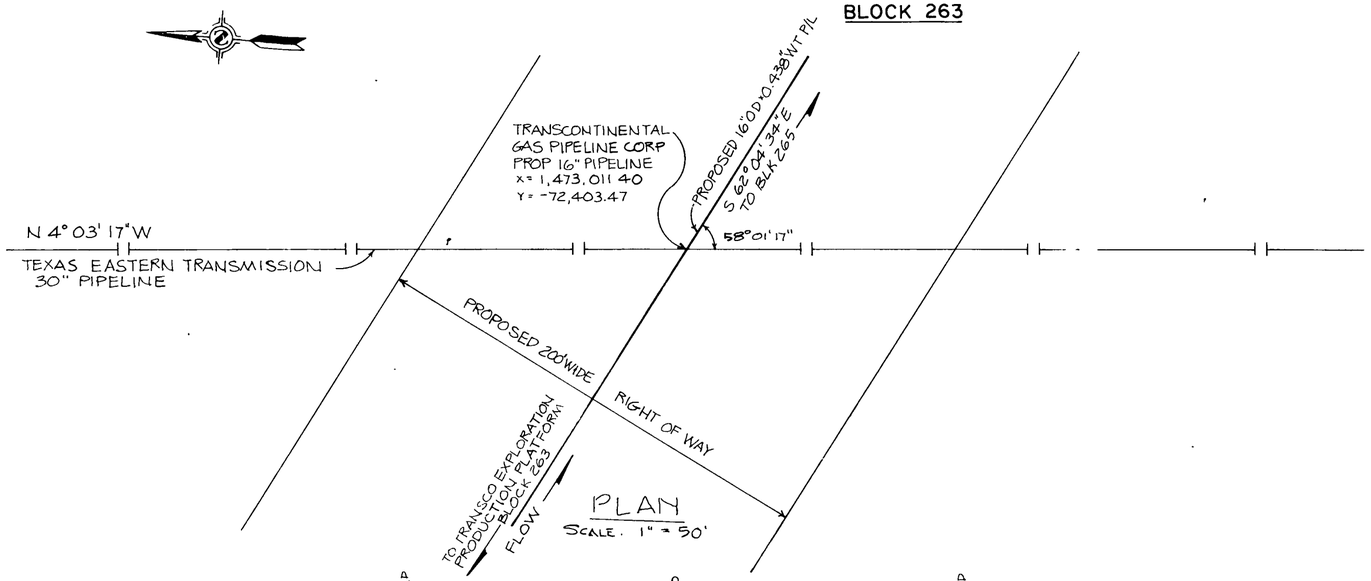
Transcontinental Gas Pipe Line Corporation
A Subsidiary of Transco Companies Inc.
Engineering Department
Houston, Texas

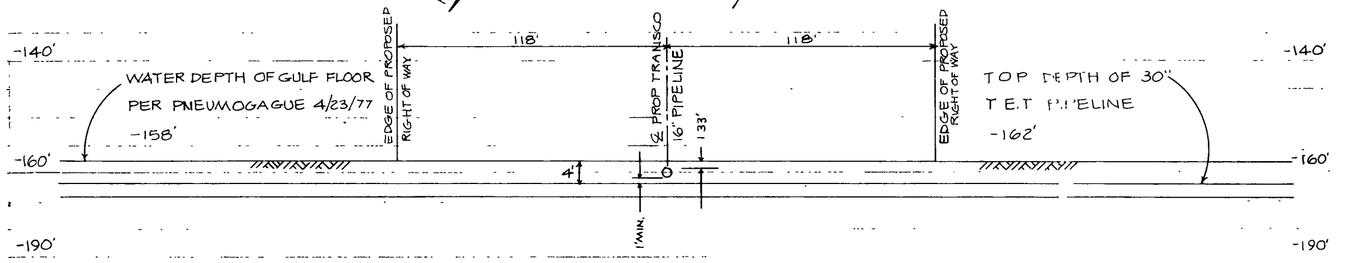
PROPOSED 16" PIPELINE CROSSING
20" STINGRAY PIPE LINE
E. CAMERON AREA, LA.

DRAWN BY S C	DATE 6/15/77	APPROVED BY	DATE
CHECKED BY C L.	DATE 6/15/77	APPROVED BY Blevens W. Ingram	ENGINEER
APPROVED BY DRAFTING C WH	DATE 6-15-77		
W. O. NO.	SCALE Shown	SERIAL NUMBER A. SEE NOTES	22-0600
	SHEET OF	DWG NO. LO-M-7-P6A	

OCS-G 3634

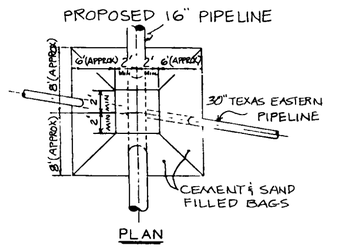
EAST CAMERON AREA, SOUTH ADDITION
BLOCK 263

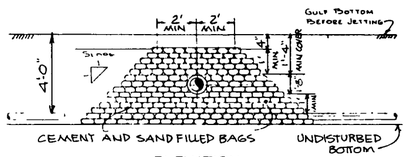




PROFILE
SCALE
HOR 1" = 50'
VER 1" = 20'

NOTES:
1) Coordinates, Bearings and Distances Shown Are Based on Louisiana Lambert Grid, South Zone





CEMENT BAG DETAIL

NOTES
(1) Cement & sand mixture shall be 1 to 3 parts by weight
(2) Bags shall be made of closely woven material with a wicking action
(3) After filling the bag it shall be closed by sewing or the equivalent but not by bunching and tying the end

ALIGNMENT SHEET — LO-M-7-P
REFERENCE DRAWING — DWG. NO.

Transcontinental Gas Pipe Line Corporation
A Subsidiary of Transco Companies Inc.
Engineering Department
Houston, Texas

PROPOSED 16" PIPELINE CROSSING
WITH EXISTING 30" T.E.T GAS PIPE LINE
OFFSHORE LOUISIANA

DRAWN BY S C	DATE 6/21/77	APPROVED BY	DATE
CHECKED BY C.L	DATE 6-29-77	Henry H. Ingram	
APPROVED BY DRAFTING C.W.W.	DATE 6-29-77	APPROVED BY ENGINEER	
W. O. NO. 5286.01	SCALE SHOWN	ORIGINAL DRWG A SEE REVISED	22-0700
	SHEET OF	DWG NO. LO-N-14-P6	

OCS-G 3034

OCS-G 3634

Application No. LMNOD-SP (Gulf of Mexico)2325

BEST AVAILABLE COPY

Name of Applicant Transcontinental Gas Pipe Line Corporation

Effective Date 21 JUL 1977

Expiration Date (If applicable) _____

RECEIVED
JUL 26 3 29 PM '77
BUR OF LAND MGMT.
OUTER CONTINENTAL
SHELF OFFICE
NEW ORLEANS, LA.

DEPARTMENT OF THE ARMY
PERMIT

Referring to written request dated 28 March 1977 for a permit to:

X) Perform work in or affecting navigable waters of the United States, upon the recommendation of the Chief of Engineers, pursuant to Section 10 of the Rivers and Harbors Act of March 3, 1899 (33 U.S.C. 403);

( ) Discharge dredged or fill material into navigable waters upon the issuance of a permit from the Secretary of the Army acting through the Chief of Engineers pursuant to Section 404 of the Federal Water Pollution Control Act (86 Stat. 816, P.L. 92-500);

( ) Transport dredged material for the purpose of dumping it into ocean waters upon the issuance of a permit from the Secretary of the Army acting through the Chief of Engineers pursuant to Section 103 of the Marine Protection, Research and Sanctuaries Act of 1972 (86 Stat. 1052; P.L. 92-532);

Transcontinental Gas Pipe Line Corporation ◄ (Here insert the full name and address of the permittee)
P.O. Box 1396
Houston, Texas 77001

is hereby authorized by the Secretary of the Army:

to install and maintain a 16-inch gas pipeline, ◄ (Here describe the proposed structure or activity, and its intended use. In the case of an application for a fill permit, describe the structures, if any, proposed to be erected on the fill. In the case of an application for the discharge of dredged or fill material into navigable waters or the transportation for discharge in ocean waters of dredged material, describe the type and quantity of material to be discharged.)

in the Gulf of Mexico, ◄ (Here to be named the ocean, river, harbor, or waterway concerned.)

M central to a point about 93.2 miles southeasterly from Cameron Parish, Louisiana, off Cameron Parish, ◄ (Here to be named the nearest well-known locality—preferably a town or city—and the distance in miles and tenths from some definite point in the same, stating whether above or below or giving direction by points of compass.)

in accordance with the plans and drawings attached hereto which are incorporated in and made a part of this permit (on drawings: give file number or other definite identification marks): in four sheets, titled, "Proposed 16" Natural Gas Pipe Line * * *," dated 25 March 1977,

Copy furnished with release
US Department of the Interior
Bureau of Land Management
Plaza Tower Building, Room 3200
1001 Howard Avenue
New Orleans, La. 70113

subject to the following conditions:

I. General Conditions:

a. That all activities identified and authorized herein shall be consistent with the terms and conditions of this permit; and that any activities not specifically identified and authorized herein shall constitute a violation of the terms and conditions of this permit which may result in the modification, suspension or revocation of this permit, in whole or in part, as set forth more specifically in General Conditions j or k hereto, and in the institution of such legal proceedings as the United States Government may consider appropriate, whether or not this permit has been previously modified, suspended or revoked in whole or in part.

b. That all activities authorized herein shall, if they involve a discharge or deposit into navigable waters or ocean waters, be at all times consistent with applicable water quality standards, effluent limitations and standards of performance, prohibitions, and pretreatment standards established pursuant to Sections 301, 302, 306 and 307 of the Federal Water Pollution Control Act of 1972 (P.L. 92-500; 86 Stat. 816), or pursuant to applicable State and local law.

c. That when the activity authorized herein involves a discharge or deposit of dredged or fill material into navigable waters, the authorized activity shall, if applicable water quality standards are revised or modified during the term of this permit, be modified, if necessary, to conform with such revised or modified water quality standards within 6 months of the effective date of any revision or modification of water quality standards, or as directed by an implementation plan contained in such revised or modified standards, or within such longer period of time as the District Engineer, in consultation with the Regional Administrator of the Environmental Protection Agency, may determine to be reasonable under the circumstances.

d. That the permittee agrees to make every reasonable effort to prosecute the work authorized herein in a manner so as to minimize any adverse impact of the work on fish, wildlife and natural environmental values.

e. That the permittee agrees to prosecute the work authorized herein in a manner so as to minimize any degradation of water quality.

f. That the permittee shall permit the District Engineer or his authorized representative(s) or designee(s) to make periodic inspections at any time deemed necessary in order to assure that the activity being performed under authority of this permit is in accordance with the terms and conditions prescribed herein.

g. That the permittee shall maintain the structure or work authorized herein in good condition and in accordance with the plans and drawings attached hereto.

h. That this permit does not convey any property rights, either in real estate or material, or any exclusive privileges; and that it does not authorize any injury to property or invasion of rights or any infringement of Federal, State, or local laws or regulations, nor does it obviate the requirement to obtain State or local assent required by law for the activity authorized herein.

i. That this permit does not authorize the interference with any existing or proposed Federal project and that the permittee shall not be entitled to compensation for damage or injury to the structures or work authorized herein which may be caused by or result from existing or future operations undertaken by the United States in the public interest.

j. That this permit may be summarily suspended, in whole or in part, upon a finding by the District Engineer that immediate suspension of the activity authorized herein would be in the general public interest. Such suspension shall be effective upon receipt by the permittee of a written notice thereof which shall indicate (1) the extent of the suspension, (2) the reasons for this action, and (3) any corrective or preventative measures to be taken by the permittee which are deemed necessary by the District Engineer to abate imminent hazards to the general public interest. The permittee shall take immediate action to comply with the provisions of this notice. Within ten days following receipt of this notice of suspension, the permittee may request a hearing in order to present information relevant to a decision as to whether his permit should be reinstated, modified or revoked. If a hearing is requested, it shall be conducted pursuant to procedures prescribed by the Chief of Engineers. After completion of the hearing, or within a reasonable time after issuance of the suspension notice to the permittee if no hearing is requested, the permit will either be reinstated, modified or revoked.

k. That this permit may be either modified, suspended or revoked in whole or in part if the Secretary of the Army or his authorized representative determines that there has been a violation of any of the terms or conditions of this permit or that such action would otherwise be in the public interest. Any such modification, suspension, or revocation shall become effective 30 days after receipt by the permittee of written notice of such action which shall specify the facts or conduct warranting same unless (1) within the 30-day period the permittee is able to satisfactorily demonstrate that (a) the alleged violation of the terms and the conditions of this permit did not, in fact, occur or (b) the alleged violation was accidental, and the permittee has been operating in compliance with the terms and conditions of the permit and is able to provide satisfactory assurances that future operations shall be in full compliance with the terms and conditions of this permit; or (2) within the aforesaid 30-day period, the permittee requests that a public hearing be held to present oral and written evidence concerning the proposed modification, suspension or revocation. The conduct of this hearing and the procedures for making a final decision either to modify, suspend or revoke this permit in whole or in part shall be pursuant to procedures prescribed by the Chief of Engineers.

l. That in issuing this permit, the Government has relied on the information and data which the permittee has provided in connection with his permit application. If, subsequent to the issuance of this permit, such information and data prove to be false, incomplete or inaccurate, this permit may be modified, suspended or revoked, in whole or in part, and/or the Government may, in addition, institute appropriate legal proceedings.

m. That any modification, suspension, or revocation of this permit shall not be the basis for any claim for damages against the United States.

n. That the permittee shall notify th ict Engineer at what time the activity authorize n will be commenced, as far in advance of the time of commencement as istrict Engineer may specify, and of any suspension ork, if for a period of more than one week, resumption of work and its completion.

o. That if the activity authorized herein is not stated on or before _____ day of _____, 19_____, (one year from the date of issuance of this permit unless otherwise specified) and is not completed on or before this 30th day of June, 1980, (three years from the date of issuance of this permit unless otherwise specified) this permit, if not previously revoked or specifically extended, shall automatically expire.

p. That no attempt shall be made by the permittee to prevent the full and free use by the public of all navigable waters at or adjacent to the activity authorized by this permit.

q. That if the display of lights and signals on any structure or work authorized herein is not otherwise provided for by law, such lights and signals as may be prescribed by the United States Coast Guard shall be installed and maintained by and at the expense of the permittee.

r. That this permit does not authorize or approve the construction of particular structures, the authorization or approval of which may require authorization by the Congress or other agencies of the Federal Government.

s. That if and when the permittee desires to abandon the activity authorized herein, unless such abandonment is part of a transfer procedure by which the permittee is transferring his interests herein to a third party pursuant to General Condition v hereof, he must restore the area to a condition satisfactory to the District Engineer.

t. That if the recording of this permit is possible under applicable State or local law, the permittee shall take such action as may be necessary to record this permit with the Register of Deeds or other appropriate official charged with the responsibility for maintaining records of title to and interests in real property.

u. That there shall be no unreasonable interference with navigation by the existence or use of the activity authorized herein.

v. That this permit may not be transferred to a third party without prior written notice to the District Engineer, either by the transferee's written agreement to comply with all terms and condition of this permit or by the transferee subscribing to this permit in the space provided below and thereby agreeing to comply with all terms and conditions of this permit. In addition, if the permittee transfers the interests authorized herein by conveyance of realty, the deed shall reference this permit and the terms and conditions specified herein and this permit shall be recorded along with the deed with the Register of Deeds or other appropriate official.

The following Special Conditions will be applicable when appropriate:

STRUCTURES FOR SMALL BOATS: That permittee hereby recognizes the possibility that the structure permitted herein may be subject to damage by wave wash from passing vessels. The issuance of this permit does not relieve the permittee from taking all proper steps to insure the integrity of the structure permitted herein and the safety of boats moored thereto from damage by wave wash and the permittee shall not hold the United States liable for any such damage.

DISCHARGE OF DREDGED MATERIAL INTO OCEAN WATERS: That the permittee shall place a copy of this permit in a conspicuous place in the vessel to be used for the transportation and/or dumping of the dredged material as authorized herein.

ERECTION OF STRUCTURE IN OR OVER NAVIGABLE WATERS: That the permittee, upon receipt of a notice of revocation of this permit or upon its expiration before completion of the authorized structure or work, shall, without expense to the United States and in such time and manner as the Secretary of the Army or his authorized representative may direct, restore the waterway to its former conditions. If the permittee fails to comply with the direction of the Secretary of the Army or his authorized representative, the Secretary or his designee may restore the waterway to its former condition, by contract or otherwise, and recover the cost thereof from the permittee.

MAINTENANCE DREDGING: (1) That when the work authorized herein includes periodic maintenance dredging, it may be performed under this permit for_____years from the date of issuance of this permit (ten years unless otherwise indicated); and (2) That the permittee will advise the District Engineer in writing at least two weeks before he intends to undertake any maintenance dredging.

II. Special Conditions (Here list conditions relating specifically to the proposed structure or work authorized by this permit):

w. If, in the judgment of the Chief of Engineers, the said permittee does not at all times exercise due caution in the transportation of oil, gas, or other pollutive, noxious, or lethal substances, to prevent conditions deleterious to health or seafood, or hazardous to navigation, or dangerous to persons or property engaged in commerce on said waters, this permit may be revoked and all operations authorized by it may be terminated.

x. This authorization is wholly unconnected and unconcerned with the ownership of or rights in the underlying soil and creates no property rights.

y. If, in the judgment of the Chief of Engineers, the said permittee does not at all times exercise due caution in the handling of oil, gas, or other pollutive, noxious, or lethal substances, to prevent conditions deleterious to health or seafood, or hazardous to navigation, or dangerous to persons or property engaged in commerce or otherwise on said waters, or fails on demand to remove promptly any structure or structures or parts thereof, no longer used for the purpose for which they are constructed, this permit may be revoked and all operations authorized by it may be terminated.

This permit shall become effective on the date of the District Engineer's signature.

Permittee hereby accepts and agrees to comply with the terms and conditions of this permit.

PERMITTEE _____ DATE _____

BY AUTHORITY OF THE SECRETARY OF THE ARMY:

21 JUL 1977

HENRY R. SCHORR
Asst Chief, Operations Division
for EARLY J. RUSH III, Colonel, CE
DISTRICT ENGINEER,
U.S. ARMY, CORPS OF ENGINEERS
New Orleans District

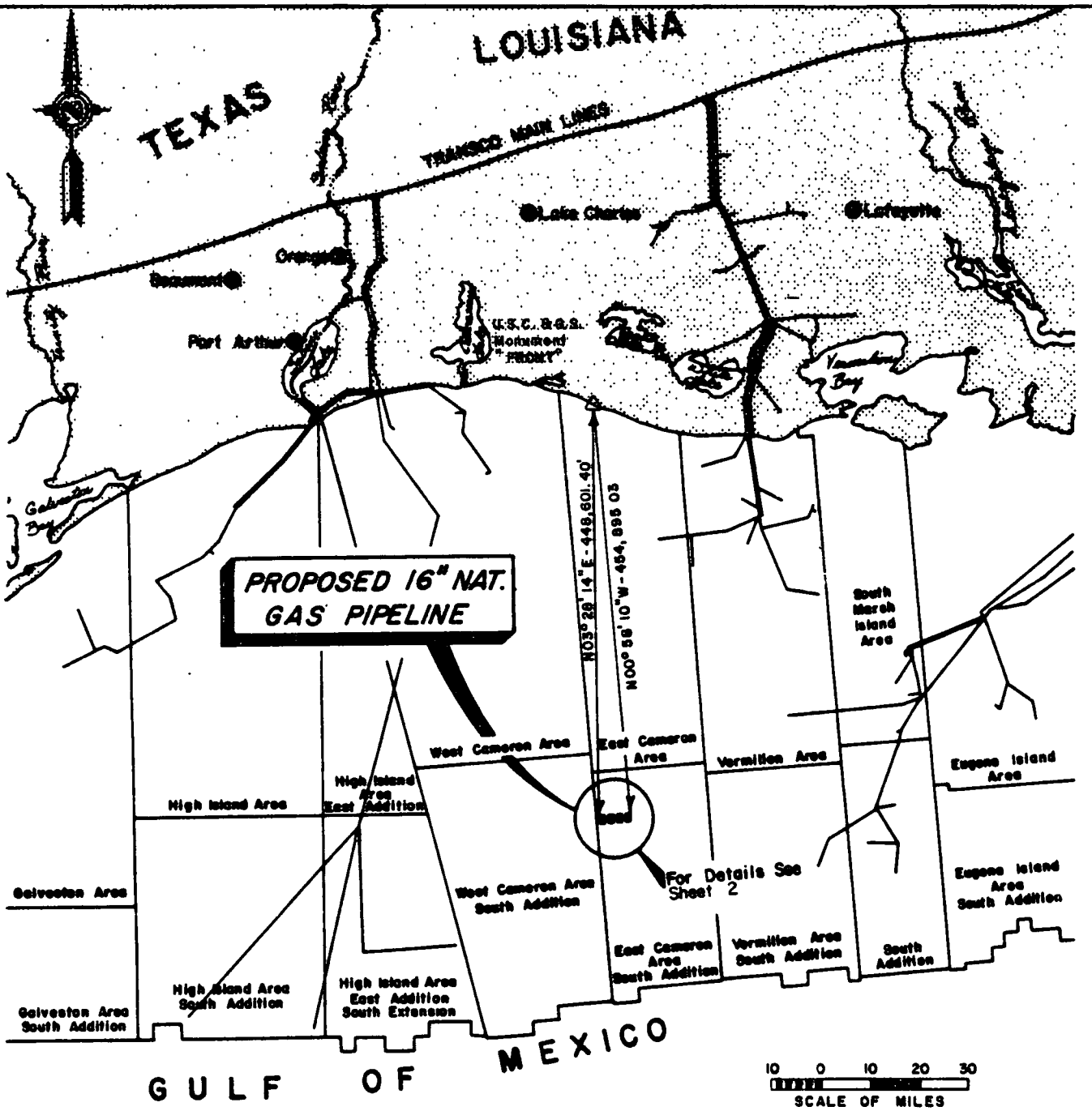
DATE _____

Transferee hereby agrees to comply with the terms and conditions of this permit.

TRANSFEREE _____ DATE _____

1 Incl
Set of dwg (1 sheet)

BEST AVAILABLE COPY



STATE OF LOUISIANA
C. T. ROSEBRUGH
REG. No. 4620
REGISTERED
PROFESSIONAL ENGINEER
IN
MECHANICAL ENGINEERING

3-28-77
Date

Chief Engineer

4680
Number

Transcontinental Gas Pipe Line Corporation
A Subsidiary of Transco Companies Inc.
Engineering Department
Houston, Texas

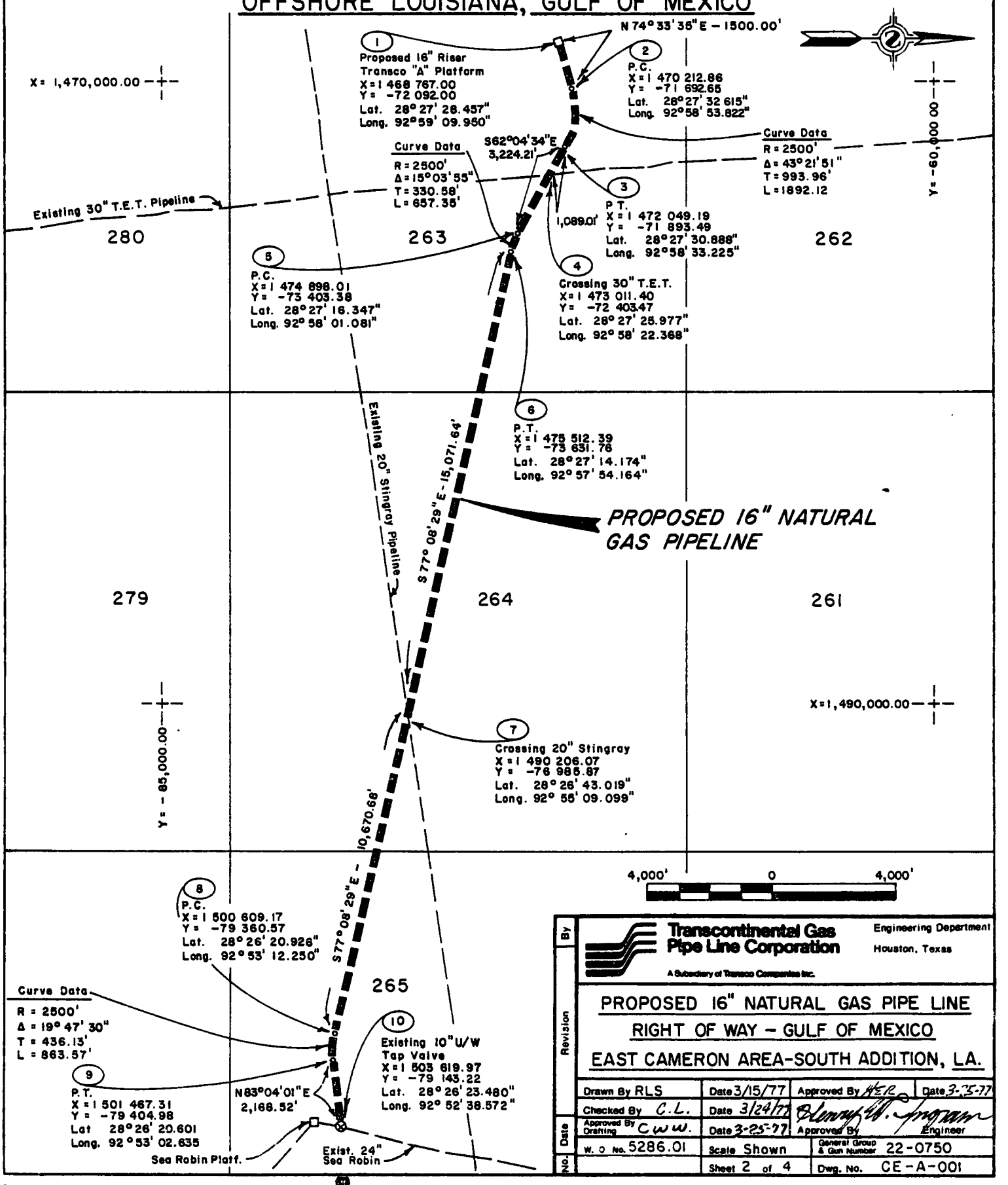
PROPOSED 16" NATURAL GAS PIPE LINE
RIGHT OF WAY - GULF OF MEXICO
EAST CAMERON AREA-SOUTH ADDITION, LA.

Drawn By RLS	Date 3/15/77	Approved By H.E.R.	Date 3-25-77
Checked By C.L.	Date 3/24/77		
Approved By Drafting C.W.W.	Date 3-25-77	Approved By	Engineer
W. O. No. 5286.01	Scale	General Group & Gas number	22 - 0750
	Sheet 1 of 4	Dwg. No.	CE-A-001

By | Revision | Date | No.

BEST AVAILABLE COPY

OFFSHORE LOUISIANA, GULF OF MEXICO



Transcontinental Gas Pipe Line Corporation
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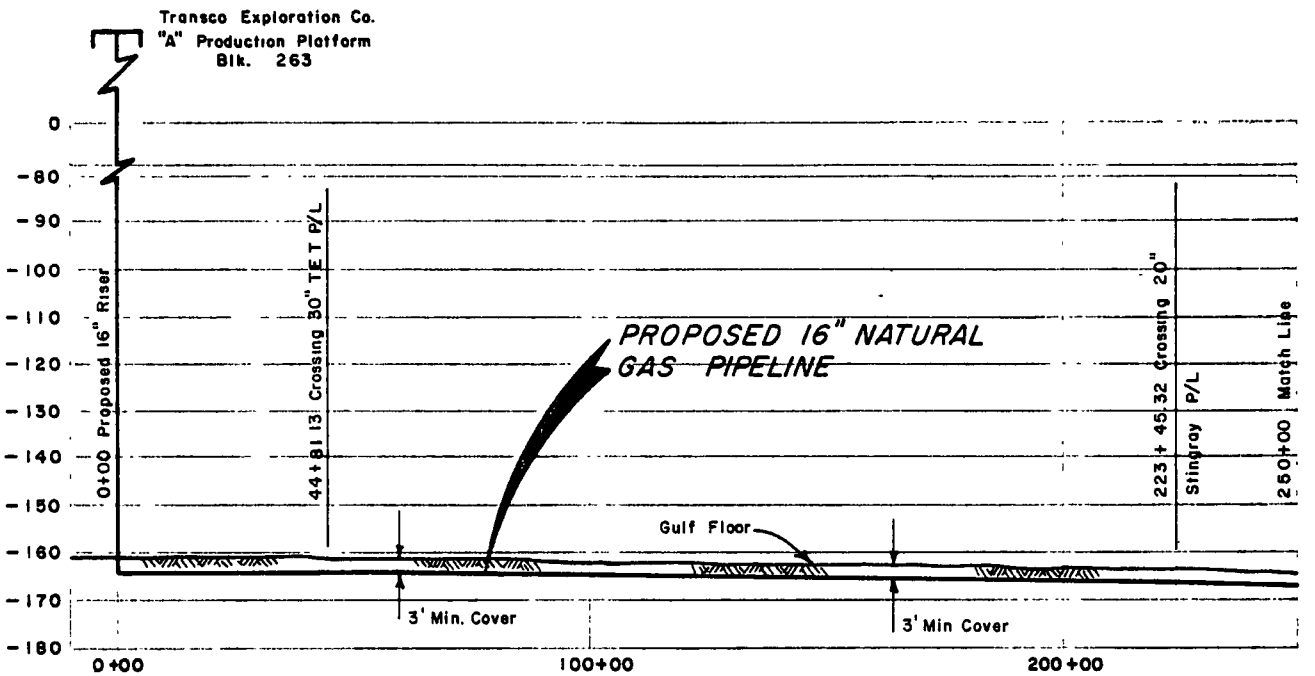
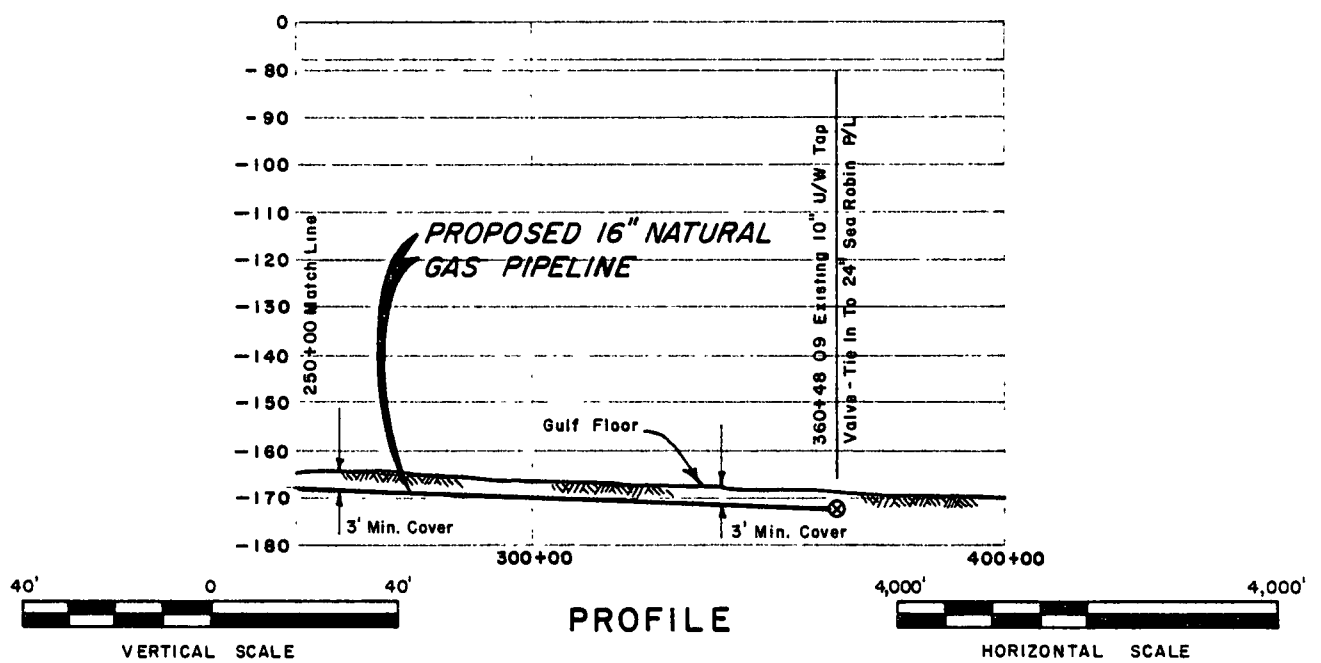
PROPOSED 16" NATURAL GAS PIPE LINE
RIGHT OF WAY – GULF OF MEXICO
EAST CAMERON AREA-SOUTH ADDITION, LA.

Drawn By RLS	Date 3/15/77	Approved By [illegible]	Date 3-25-77
Checked By C.L.	Date 3/24/77	Approved By [illegible] Engineer	
Approved By Drafting C.W.W.	Date 3-25-77		
W. O No. 5286.01	Scale Shown	General Group & Gun Number 22-0750	
	Sheet 2 of 4	Dwg. No. CE-A-001	

By / Revision / Date / No.





40' 0 40'

VERTICAL SCALE

PROFILE

4,000' 4,000'

HORIZONTAL SCALE

By	Transcontinental Gas Pipe Line Corporation A Subsidiary of Transco Companies Inc.	Engineering Department Houston, Texas	
Revision	PROPOSED 16" NATURAL GAS PIPE LINE RIGHT OF WAY - GULF OF MEXICO EAST CAMERON AREA-SOUTH ADDITION, LA.		
Date	Drawn By RLS	Date 3/15/77	Approved By HEB Date 3-25-77
	Checked By C.L.	Date 3/25/77	Approved By Lindell W. Ingram Engineer
	Approved By Drafting CWW.	Date 3-25-77	
	W. O No. 5286.01	Scale Shown	General Group & Gun Number 22-0750
No.		Sheet 3 of 4	Dwg. No. CE-A-001

Block 284

BEST AVAILABLE COPY

PROPOSED 16" FROM BLOCK 263 TO BLOCK 265 EAST CAMERON AREA

PT. NO.	BEARING	DISTANCE	Y	X	LATITUDE	LONGITUDE	REMARKS
1			-72,092.00	1,468,767.00	28° 27' 28.457"	92° 59' 09.950"	CENTER PROPOSED RISER BLOCK 263
1-2	N 74° 33' 35" E	1,500.00'	-71,692.65	1,470,212.86	28° 27' 32.615"	92° 58' 53.822"	P. C. CURVE BLOCK 263
2-3	CURVE	1,892.12'	-71,893.49	1,472,049.19	28° 27' 30.888"	92° 58' 33.225"	P. T. CURVE BLOCK 263
3-4	S 62° 04' 34" E	1,089.01'	-72,403.47	1,473,011.40	28° 27' 25.977"	92° 58' 22.368"	30" T.E.T. PIPELINE CROSSING
4-5	S 62° 04' 34" E	2,135.20'	-73,403.38	1,474,898.01	28° 27' 16.347"	92° 58' 01.081"	P. C. CURVE BLOCK 263
5-6	CURVE	657.35'	-73,631.76	1,475,512.39	28° 27' 14.174"	92° 57' 54.164"	P. T. CURVE BLOCK 263
6-7	S 77° 08' 29" E	15,071.64'	-76,985.87	1,490,206.07	28° 26' 43.019"	92° 55' 09.099"	20" STINGRAY PIPELINE CROSSING
7-8	S 77° 08' 29" E	10,670.68'	-79,360.57	1,500,609.17	28° 26' 20.926"	92° 53' 12.250"	P. C. CURVE BLOCK 265
8-9	CURVE	863.57'	-79,404.98	1,501.467.31	28° 26' 20.601"	92° 53' 02.635"	P. T. CURVE BLOCK 265
9-10	N 83° 04' 01" E	2,168.52'	-79,143.22	1,503,619.97	28° 26' 23.480"	92° 52' 38.572"	UNDERWATER VALVE BLOCK 265
TOTAL = 36,048.09 (6.827 MILES) PROPOSED 16" PIPELINE							

GENERAL NOTES APPLICABLE TO PROPOSED PIPELINE CONTAINED HEREIN:

1. Pipeline contained herein will be used to transport Natural Gas from the Louisiana Outer Continental Shelf to the Northeastern Area of the United states.
2. Proposed permanent right-of-way will be 200' wide.
3. Courses and distances are based on Louisiana Lambert (South Zone) Grid.
4. Proposed pipeline depicted herein will be installed by Lay Barge and will be buried by jetting, thereby spreading the spoil so as not to build up the original Gulf botton over one half foot.
5. Proposed pipeline will be installed in a trench to provide the minimum cover as shown on profile drawings (sheet 3 of 4).

SPECIFICATIONS

Design Pressure:	1440 P.S.I.G. (1)
Maximum allowable Operating Pressure:	1440 P.S.I.G. (1)
Line Pipe : 16" O.D. x .438" W.T.	
Wt. Per. Ft.:	72.716 lbs.
Pipe Grade:	API5LX GR. X-42
Protective Coating Used:	9/16" Mastic & 1¼" - 140 PCF Conc.
Bulk Specific Gravity:	1.26
Type Corrosion Protection:	Sacrificial Anodes

(1) 49 CFR Part 192, U.S.C. 1671, Transportation of Natural and Other Gas by Pipeline: Minimum Federal Safety Standards.

Transcontinental Gas Pipe Line Corporation
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Engineering Department
Houston, Texas

PROPOSED 16" NATURAL GAS PIPE LINE
RIGHT OF WAY - GULF OF MEXICO
EAST CAMERON AREA-SOUTH ADDITION, LA.

Drawn By RLS	Date 3/15/77	Approved By HER	Date 3-25-77
Checked By C.L.	Date 3/25/77	Approved By Henry W. ... Engineer	
Approved By Drafting CWW	Date 3-25-77		
W. O. No. 5286.01	Scale None	General Group & Gen Number 22-0750	
	Sheet 4 of 4	Dwg. No. CE-A-001	

By | Revision | Date | No.

PIPELINE APPLICATION CHECK LIST

INSTRUCTIONS: Check the blank on the left if the statement is affirmative or correct data submitted. Mark 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 on the right.

A. Verify the following general information:

NO I. Do the leases involved on the P/L application appear on the current Suspension of Production (SOP) Lease List?

II. USGS Application

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

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

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

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

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

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

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

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

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

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

____ 1. FWS notified _____.

____ 2. FWS comment received _____.

____ 3. BLM notified _____.

____ 4. BLM comment received _____.

____ 5. Environmental assessment required _____.

III. BLM Application

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

IV. DOT Pipelines

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

V. DOI Pipelines

n/a a. Pipelines not covered by IV above.

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

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

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

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

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

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

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

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

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

✓ a. Source separator

✓ b. Maximum source pressure, psig 120.0.

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

C. Verify that the location plat depicts the following:

/ I. Location of P/L

/ II. Length of P/L

/ III. Size of P/L

/ IV. Type of service

/ V. Direction of flow

D. Verify that the information given on the submitted data sheet is complete; and calculate the $MAOP_{sc}$, $MAOP_{rc}$, $MAOP_{p/1}$.

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

a. Size of P/L, inches 16.

b. Weight of P/L, lbs./ft. 72.716.

c. Grade of P/L X-42.

d. Wall thickness, inches .438.

e. Size of riser, inches 16.

f. Weight of riser, lbs./ft. 82.7.

g. Grade of riser X-52.

h. Wall thickness of riser, inches .500.

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

j. Hydrostatic test pressure (HTP), psig 2925 RISER COMPONENT 2069 SUB. COMPONENT.

k. Hold time, hrs. 8.

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

II: DOI Pipelines

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

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

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

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

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

_____f. Are b, d, and e $\geq$ MSP

_____ $\geq$ _____

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

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

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

_____ $\leq$ _____ $\leq$ _____

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

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

_____h. HTP/1.25 = _____

_____i. Is HTP hold time $\geq$ 2 hours

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

_____ ($MAOP_{p/l}$)

III. DOT Pipelines

a. IP @ SMYS for submerged pipeline $= \frac{2st}{D} = \frac{2(42000)(.438)}{16} = 2300$

b. (.72 x IP @ SMYS) for submerged pipeline = 1656 ($MAOP_{sc}$)

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

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

For gas P/L (.50 x IP @ SMYS) for riser = 1625

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

✓ f. Are b, d, and e $\geq$ MSP

1440 $\geq$ 1200

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

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

g. Limit of Testing

N/A 1. For oil P/L:

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

_____ $\leq$ _____ $\leq$ _____

✓ 2. For gas P/L riser component:

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

1800 $\leq$ 2925 $\leq$ <3088

✓ 3. For gas P/L submerged component:

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

1500 $\leq$ 2069 $\leq$ 2185

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

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

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

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

2. For gas P/L riser component HTP/1.5 of riser = 2925/1.5 = 1950

3. For gas P/L submerged component HTP/1.25 of submerged component = 2069/1.5 = 1655

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

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

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

1440 ($MAOP_{p/l}$)

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

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

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

N/A b. If platform anodes are used:

1. Type of anode _____

2. Weight of unit anode, lbs. _____

✓ c. If pipeline anodes are used:

1. Type of anode Galvalum II

2. Spacing interval, ft. 706'

3. Weight of unit anode, lbs. 116

II. Calculated Life Expectancy of Corrosion Protection

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

✓ b. If pipeline anodes are used:

$LE_{p/l} = 3.82 \times 10^4 \times W^o/DIR? =$ 51.6

W^o = weight of one anode, pounds = 116

D = outside diameter of pipe, inches 16

I = interval = length of pipe, feet ÷ total number of anodes 706

R = consumption rate, lbs./amp-yr. 7.6

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

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

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

a. Description of pipelines protective coating MASTIC & CONCRETE

b. Description of risers protective coating MASTIC & CONCRETE

c. Description of pre-concrete coating MASTIC

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

e. Thickness of concrete, inches 1 1/4

f. Thickness of asphalt/somastic 9/16 MASTIC

g. Gravity or density of products ✓

For gas .6 (air = 1.0)

For oil/condensate ____ ° API, .7 (water = 1.0)

h. Given $SG_{p/1}$ 1.26

II. $SG_{p/l}$

N/A a. Expoxy-coated pipelines:

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

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

D = diameter of pipe, inches

✓ b. For weighted pipelines:

$$SG_{p/l} = \frac{d_c}{d} + \frac{k_2}{(T-k_1)^2} = \left(\frac{W+P}{k_3} - \frac{d_c}{d}\right) = \frac{140}{64} + \frac{72.25}{(1.25+8.5)^2}\left[\frac{72.716+24.3}{98.35} - \frac{140}{64}\right]$$

$= 1.27$

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

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

k_1, k_2, k_3 = coefficients from tables

T = thickness of concrete coating, inches

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

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

$SG_{p/l}$ = 1.27

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

1.27 ≅ 1.26

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

G. Verify the following general information:

I. Water Depth, ft. 171 (Max) 160 (Min)

II. Burial depth, ft. 3

III. Maximum Operating Pressure (MOP) 1440 = $MAOP_{p/l}$

IV. Capacity ←

— Keep in file —

Ties Into BLM OCS-G 1907.

O.D = 24"
W.T. = .500
GR = X-60, S = 60,000
ANSI 600 = 1440 psi
HTP = 2160, 24hrs after 1965.

} rec'd 11-16-77 from Emile BLM by phone.

calculations of MAOP of 1907.

$MAOP_{PIL} = 1440$

$MAOP_{SC} = .72\,(2)\,\frac{(60000)(.5)}{24"} = 1800$

$MAOP_{RC} = .6\,(\quad " \quad) = 1500$

$HTP/1.25 = 1728$

$HTP/1.5$? $= 1440$

$MAOP_{PIL} = 1440$ → BLM 1907

$MAOP_{\text{application Blk}} = 1440$

Recieved verbal from Emile BLM 11-16-77 that riser component will be 100% x-rayed if riser is cut after testing. Will need written confirmation of intent to x-ray if it is needed.

FMC 11-17-77