SN 5473

BEST AVAILABLE COPY

In Reply Refer To: MS 5421
GOM Company Number 030

March 1, 2005

ACTION

Trunkline Gas Company, LLC

Oil & Gas

CHANGE OF NAME RECOGNIZED

On February 24, 2005, there was filed in this office for acceptance, evidence of change of name from CMS Trunkline Gas Company, LLC to Trunkline Gas Company, LLC, effective June 24, 2003.

In view of the evidence submitted, the change of name as to the pipeline rights-of-way listed below is recognized and the records so noted.

Pipeline Rights-of-Way

OCS 0654	OCS-G 1693F	OCS-G 3622	OCS-G 4635
OCS 0882	OCS-G 1693H	OCS-G 3628	OCS-G 4656
OCS 0890	OCS-G 1693I	OCS-G 3920	OCS-G 4659
OCS-G 1693	OCS-G 1693K	OCS-G 4056 ✓	OCS-G 5131
OCS-G 1693A	OCS-G 1852	OCS-G 4298	OCS-G 8039
OCS-G 1693B	OCS-G 1852A	OCS-G 4303	OCS-G 8041
OCS-G 1693C	OCS-G 2817	OCS-G 4304	OCS-G 8590
OCS-G 1693D	OCS-G 3363	OCS-G 4357	OCS-G 10093
OCS-G 1693E	OCS-G 3438	OCS-G 4628	OCS-G 11709

(Orig. Sgd.) Steven K. Waddell, CPL

Steven K. Waddell, CPL
Adjudication Unit Supervisor
Leasing Activities Section

Enclosure

bc: 1101-02f, GOM Company Number 030 (MS 5421)
1502-01 (MS 5232)
C. Olivier (MS 5421)

DArmond:lmk:2/28/05:CMS-Trunkline CON.doc

MINERALS MANAGEMENT SERVICE
RECEIVED
MAR 21 2005
FIELD
New Orleans, La.

SN 5473

TRUNKLINE GAS COMPANY
P.O. BOX 190
KAPLAN, LA 70548

MINERALS MANAGEMENT SERVICE
RECEIVED
JUL 16 1993
FIELD OPERATIONS
GOM OCS Region, New Orleans, La.

July 12,1993

U. S. Department of the Interior
Mineral Management Service
Gulf of Mexico O.C.S. Region
1201 Elmwood Park Drive Boulevard
New Orleans, LA 70123
Attention: Mike Conner

Re: Completion of the abandonment of a 8" natural gas pipeline and relinquish pipeline right of way, ST-Block 156, Gulf of Mexico, OCS-G-4056, MS-5421.

Dear Mr. Conner:

Information provided by Mr. Jim Lehman, Area Engineer, indicates that the abandonment of the captioned pipeline was completed July 8, 1993, in accordance to approved procedures.

If you should require additional information regarding this project, please contact me, Dale David, at P.O. Box 190, Kaplan, LA. 70548, telephone no. (318)643-8847.

Sincerely,

TRUNKLINE GAS COMPANY

Dale David
DALE DAVID
SENIOR RIGHT OF WAY REPRESENTATIVE

SN 5473

SN 5473

In Reply Refer To: MS 5421
OCS-G 4056

May 18, 1993

ACTION

Trunkline Gas Company

Right-of-way

RELINQUISHMENT OF RIGHT-OF-WAY GRANT
ABANDONMENT OF PIPELINE

On July 6, 1979, Trunkline Gas Company filed an application for a right-of-way two hundred feet (200') in width for the construction, maintenance, and operation of an 8-inch natural gas pipeline, 1.024 miles in length, from Amoco Production Company's Platform "A" to a subsea tie-in with Trunkline Gas Company's 24-inch pipeline (OCS-G 1693-H), all located in Block 156, South Timbalier Area. By Action dated September 10, 1979, executed September 17, 1979, the application was approved and the right-of-way granted. Proof of construction was subsequently accepted on February 25, 1980.

On April 29, 1993, Trunkline Gas Company requested relinquishment of the above-described right-of-way in its entirety. Additionally, grantee requested permission to abandon in place the subject pipeline in accordance with 30 CFR 250, Subpart J.

Inasmuch as grantee has agreed to comply with 30 CFR 250, Subpart J, removal of the 1.1 miles of line pipe is hereby waived. However, in the future, should it be determined that this pipeline constitutes a hazard to navigation or commercial fishing operations or unduly interferes with other uses of the OCS, Trunkline Gas Company shall be required to remove it.

Therefore, relinquishment of the right-of-way grant associated with the above-described pipeline that is to be abandoned in place is hereby accepted, effective April 29, 1993.

Trunkline Gas Company shall, within 30 days after completion of the abandonment, submit a report to this office informing the Minerals Management Service of the date the abandonment was completed and verify such abandonment was completed as approved.

(Orig. Sgd.) J. ROGERS PEARCY

J. Rogers Pearcy
Regional Director

cc: Case File
MHHOLMES/

gw mof
7/21/93
17

United States Department of the Interior

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

TAKE PRIDE IN AMERICA

In Reply Refer To: MS 5421
OCS-G 4056

May 18, 1993

ACTION

Trunkline Gas Company

Right-of-way

RELINQUISHMENT OF RIGHT-OF-WAY GRANT
ABANDONMENT OF PIPELINE

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J. Rogers Pearcy
Regional Director

cc: Case File

OCS-G-4056
SN 5473

TRUNKLINE GAS COMPANY
A Unit of Panhandle Eastern Corporation

Theopolis Holeman
Vice President
Transmission

April 22, 1993

MINERALS MANAGEMENT SERVICE
RECEIVED
APR 29 1993
FIELD OPERATIONS
GOM OCS Region, New Orleans, La.

U. S. Department of Interior
Mineral Management Service
Gulf of Mexico O.C.S. Region
1201 Elmwood Park Boulevard
New Orleans, Louisiana 70123
Attention: Mike Conner

RE: Permanent Abandonment of a 8" Natural Gas Pipeline and Relinquish Pipeline Right-of-Way, South Timbalier Area, Block 156A, Gulf of Mexico, Line Number 319B-2800, MMS ROW Number 4056, MMS Segment Number 0005473

Dear Mr. Conner:

In accordance with Title 30 CFR Part 250, Subpart J, 250.156 and 250.164, Trunkline Gas Company hereby requests approval to abandon in place and relinquish the right-of-way for approximately 5406 feet of 8" natural gas pipeline in South Timbalier Block 156A, Gulf of Mexico.

This pipeline extends from Amoco's South Timbalier Block 156A to Trunkline Gas Company's under water tie in South Timbalier Block 156.

Trunkline Gas Company is requesting permission to abandon this pipeline based on the fact that this pipeline is no longer being used by the Company.

The pipeline will be purged to remove any material harmful to the environment prior to abandonment. At 25 feet from the riser ells a 10 foot section will be cut from the Amoco Platform end of the pipeline. At the under water tie in, the flange will be removed from the future and a 10' section of pipe will be removed. The ends of the section to be abandoned will be plugged. The ends of the section of pipe to be abandoned will be buried to a minimum depth of 3 feet and will be covered with sand bags or cover jetted back over the ends.

Enclosed are copies of Drawing OL-319B-2801-A1, OL-319B-2801-A, and a drawing of Amoco's South Timbalier 156A platform. Also enclosed are procedures to abandon the pipeline in accordance with Subpart J.

ACCEPTED
J. Roger Pearcy
Regional Director
Effective Date APR 29 1993

P O Box 1642 Houston, Texas 77251-1642 5400 Westheimer Court 77056-5310 713-627-5712

If you need any further information regarding this request to abandon the pipeline, please contact Dale David, Senior Right-of Way Representative, P.O. Box 190, Kaplan, LA. 70548, telephone number (318) 643-8847.

Respectfully,

Theopolis Holeman
Vice President, Transmission

TH/esb

Enclosures:
Abandonment Procedures
Drawings
Letter of Non-Discrimination

319B-2800 LINE ABANDONMENT
PREJOB MEETING TRANSMISSION
DATE OF MEETING_____
TIME OF MEETING_____
LOCATION OF MEETING_____
MMS ROW NUMBER 4056
MMS SEGMENT NUMBER 0005473

A. ATTENDING MEETING

_____
_____
_____
_____
_____

B. PERSONNEL LOCATIONS

EMPLOYEE	LOCATION	BOAT	RADIO #	CELLUAR PHONE #
_____	ST-156A_	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

C. REVIEW PROCEDURES

D. DISCUSS SAFETY

E. DISCUSS EQUIPMENT AND MATERIAL NEEDS

4/14/93 JRL

319B-2800 LINE ABANDONMENT
MEETING WITH CONTRACTOR
DATE OF MEETING_____
TIME OF MEETING_____
LOCATION OF MEETING_____
MMS ROW NUMBER 4056
MMS SEGMENT NUMBER 0005473

A. ATTENDING MEETING

_____
_____
_____
_____
_____
_____

B. SCOPE OF WORK

BLOW DOWN 319B-2800 LINE. RUN PIG FROM AMOCO ST156A PLATFORM TO UNDER WATER TAP ST-156 WITH INHIBITED WATER. MAKE 10' CUT ON EACH END OF THE PIPELINE, PLUG, AND REMOVE REMAINING PIPE. COVER THE ENDS OF THE ABANDONED PIPE.

C. REVIEW PROCEDURES

D. PERSONNEL LIST & LOCATION FOR TRANSMISSION PERSONNEL

E. DISCUSS SAFETY REQUIREMENTS

F. DISCUSS MATERIAL AND EQUIPMENT NEEDS

4/14/93 JRL

MATERIAL AND EQUIPMENT FOR ABANDONMENT OF 319B-2800 LINE

A. PORTABLE BASE STATIONS ON BOAT.
B. CELULAR PHONE ON BOAT.
C. 1-DAVIS GAS DETECTORS.
D. CUTTING EQUIPMENT FOR CUTTING LINE.
E. 2-1500 PSI TEST GAUGES.
F. SAFETY EQUIPMENT - WORK LIFE VESTS, GLASSES, HEARING PROTECTION, FACE SHIELDS, GLOVES, STEEL TOED SHOES, HARD HATS, SAFETY BELTS, EXPLOSION PROOF LIGHTS.
G. PRESSURE PUMP WITH STROKE METER & 0-1500 PSIG GAUGE.
H. MIXING TANK FOR INHIBITOR.
I. 2-8" FOREMAN PIPE PLUGS.
J. 1-8" SUPER PIG
K. TOOLS FOR REMOVING AND TORQUING FLANGES.
L. DIVERS & EQUIPMENT.
M. NITROGEN BOTTLES FOR PURGING OUT WATER.
N. 1-8" BLIND FLANGE WITH 2" 3000 WOG VALVE & PLUG & COATED BOLTS.
O. SAND BAGS TO COVER THE END OF PIPE.
P. JETTING EQUIPMENT.
Q. CRANE FOR LIFTING EQUIPMENT FROM ST-156A

4/14/93 JRL

319B-2800 LINE ABANDONMENT PROCEDURE
MMS ROW NUMBER 4056
MMS SEGMENT NUMBER 0005473

A. BLOW DOWN 319B-2800 LINE BEFORE MOBILIZING BOAT AT ST-156A.

B. RECIEVE PERMISSION TO ABANDONMENT IN PLACE.

C. CLEAR WITH GAS CONTROL BEFORE ABANDONMENT.

D. MOBILIZE FROM _____ DOCK @____TIME _____DATE.

E. TRAVEL TO ST-156 UNDER WATER TAP LOCATION.

F. CHECK POSITIONS OF VALVES

OPEN 319B-2801
OPEN 319B-2801C
CLOSED 319B-2802 (FUTURE)

G. TRAVEL TO AMOCO ST-156A END OF LINE.

H. INSTALL 8" SUPER PIG IN LAUNCHER AT ST-156A AND CLOSE LAUNCHER.

OPEN 2" BLOW DOWN VALVE # 319B-2802BD3 ON LAUNCHER BARREL
OPEN LAUNCHER DOOR AND INSTALL PIG
CLOSE LAUNCHER DOOR
OPEN 8" VALVE 319B-2802
OPEN 4" VALVE # 319B-2802BD2
REMOVE 4" FLANGE #42
INSTALL 2" BLIND IN FLANGE #50
HOOK UP HOSE TO FLANGE #42
START PRESSURE PUMP AND PUSH PIG OUT OF LAUNCHER
CLOSE 8" VALVE 319B-2802
OPEN 4" VALVE 319B-2802 BD1
CLOSE 4" VALVE 319B-2802BD2
CLOSE 2" VALVE 319B-2802BD3

I. INSTALL HYDROSTATIC TEST EQUIPMENT AT ST-156A TO RUN PIG. HOOK UP TO PRESURE PUMP. INSTALL 0-1500 PSIG GAUGE. INSTALL SYPHON TO CHEMICAL TANK. RECORD STROKE METER READING. AND PUT SUCTION HOSE IN WATER.

J. START PRESSURE PUMP. DO NOT EXCEED 1440 PSIG. RECORD TIME, PRESSURE, AND GALLONS EVERY 15 MINUTES. IT TAKES 15026 GALLONS TO RUN THE PIG INTO THE LINE AT UNDER WATER TAP AT ST-156.

4/14/93 JRL

319B-2800 LINE ABANDONMENT PROCEDURE
MMS ROW NUMBER 4056
MMS SEGMENT NUMBER 0005473

K. WHEN THE GALLONS REACH 15500 - SHUT IN PUMP AND BLEED PRESSURE HEAD OFF THE LINE.

L. JET THE COVER OFF THE LINE AT 25' TO 40' DOWNSTREAM OF THE MUD LINE ELL.

M. CUT 10' OF PIPE AND REMOVE THE PIECE OF PIPE. INSTALL PLUG IN DOWNSTREAM END (ABANDON END). JET TO 3' MINIMUM COVER OVER THE LINE. SANDBAG OR JET COVER OVER END OF PIPE.

N. MOVE TO UNDER WATER ST-156 END OF LINE.

O. JET COVER OFF THE LINE AT 25' TO 40' UPSTREAM OF MUD LINE ELL ON UNDER WATER TAP ST-156.

P. REMOVE BOLTS FROM FLANGE ITEM # 9. CUT 10' OF PIPE AND PLUG UPSTREAM END OF PIPE (ABANDON END). REMOVE 10' PIECE OF PIPE AND LIFT SECTION OF PIPE ON BOAT. THEN INSTALL 8" BLIND WITH 2" VALVE ON MANIFOLD ON FLANGE # 9. TORQUE TO 620 FT-LBS.

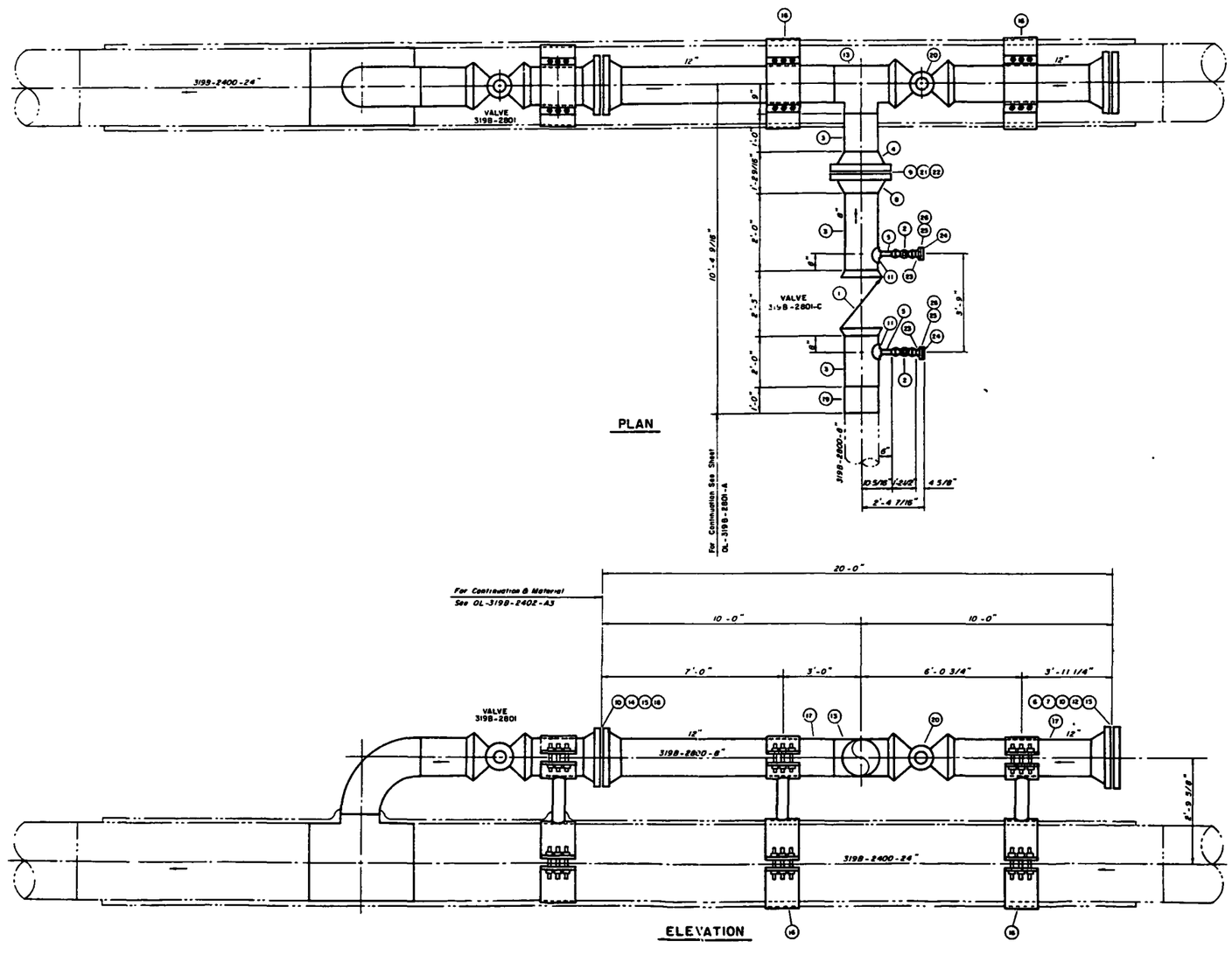
Q. HOOK UP NITROGEN TO 2" VALVE AND PURGE THE WATER FROM THE MANIFOLD. DO NOT EXCEED 1440 PSIG. CLOSE 2" VALVE AND INSTALL 2" PLUG. CHECK FOR LEAKAGE ON FLANGE. DURING PRESSURIZING MOVE BOAT OFF 1000', AND REMOVE DIVERS FROM WATER. WHEN PRESSURIZED MOVE BOAT BACK ON LOCATION AND CHECK FOR LEAKS. RETORQUE IF NECESSARY.

R. REMOVE PIPING FROM UNDER WATER TAP AND PUT ON BOAT.

S. DEMOBILIZE.

T. REPORT TO GAS CONTROL THAT LINE 315B-200 LINE HAS BEEN ABANDONED.

4/14/93 JRL



STOCK NO.	QUANTITY	SIZE	DESCRIPTION	PARTS NO.
	1	8"	API-606, 2160 W.O.P. Fabricated Grove Horizontal Swing Check Valve, WEXNE Weld Ends Prepared for Welding to 8.625"x.500" W.T. Grade "B" Pipe. Valve Shall be Equipped for Underwater Service with Trim Suitable for 2160 PSI Operating Pressure at 100 Deg. F. Valve Shall Include Extended Clapper Shaft with Square Ends Under Ball Plug Covers and Special Wrenco to Lock Clapper Open. Per Trunkline Check Valve Specification III. Dated 7-1-76	1
	2	2"	API-606, 2160 W.O.P. Ball Valve, Wrench Operated, WEXNE Weld Ends Prepared for Welding to 2-3/8" O.D. x.344"W.T. Gr. "B" Pipe, Protected for Salt-Water Immersion, Per Trunkline Ball Valve, Spec. III Dated 7-1-76	2
	5'-0"	8-5/8"	O.D.x.500" W.T. Pipe, Gr. "B", Smls, API-5L w/O.O.T. Cert.	3
	1	8"	ANSI 900 F.S. U.H. Flange (R.T.J.) Bore 7.625". A105, ANSI B16.5-1973	4
	1'-5"	2-3/8"	O.D.x.344" W.T. Pipe, Gr. "B"-Smls ASTM A-106-1972a w/O.O.T. Cert.	5
	1	12"	ANSI 900 F.S.U.H. Flange R.T.J.) Bore 11-759". A-105, ANSI B16.5-1973	6
	1	12"	ANSI 900 F.S. Blind Flange (R.T.J.) A-105, ANSI B16.5-1973	7
	1	8"	ANSI 900 R.T.J., W.N. Swivel Ring Flange, Bore 7.625" w/O.O.T. Cert., P=2160, T-100°, CF=0.5	8
	12	1-3/8"Ø	Stud Bolts, 11 1/4" Thread Length, 2-7 ASTM A-193-1975, ANSI B16.5-1973 w/2 ASTM A-194-1974, ANSI B16.5-1973 Hex Nuts Ea. (Both Items Coated w/ INF-3-W or Equal)	9
	2	R57	Ring Joint Gasket (Pitch Dia. 15") ANSI B16.20-1973	10
	2	2"	x8" Gr. "B" Weld Saddle	11
	20	1-3/8"Ø	Stud Bolts, 10-1/4" Thrd. Lgth. 8-7 ASTM A-193-1975, ANSI B16.5-1973 w/2 ASTM A-194-1975, ANSI B16.5-1973 Ea. (Both Items Coated with INF-3-W or Equal	12
	1	12"	x8"x.500" W.T. Weld Tee, SPB-ASTM A-234-1971	13
	1	12"	ANSI 900 R.T.J., W.N.Swivel Ring Flange, Bore 11.750" w/OOT Cert., P=2160, T-100°, CF=0.5	14
	2	12"	Rockwell McEvoy Flange Protector for 12" ANSI 900 R.T.J. Flange w/Grease Fittings	15
	2		Pipe Clamp Per Detail This Dwg	16
	14'-0"	12-3/4"	O.D.x.500" W.T. Pipe, Gr. "B" Smls, API-5L w/ OOT Cert.	17
	20	1-3/8"Ø	Stud Bolts, 13" Thread Length, 8-7 ASTM A-193-1975 ANSI B16.5-1973 w/2 ASTM A-194-1974, ANSI B16.5-1973 Hex Nuts (Both Items Coated w/INF-3-W or Equal)	18
	1	8"	Transition Sleeve, Item 8TSI Per Std. Dwg. #64-73	19
	1	12"	API-60, Class 900, 2160 W.O.G. Cameron, Full Opening Trunnion Mounted Ball Valve, Gear Operated C/W Handwheel, WE., Ends Prepared for Welding to 12-3/4" O.D.x.500" W.T., Gr. "B"	20

DRWG. NO.	REFERENCE DRWG.	REV	DFTM	CK	DESCRIPTION	DATE
OL-3198-2801-A	ALIGNMENT SHEET					

DRAWN BY: ATKINSON 8-29-83
DRAFTING CHECK BY: 12-19-83
SCALE: NONE

GROUP LEADER
ELECTRICAL ENGR.
PROJECT ENGR.
PROJ. LOC. DESIGN
PROJ. DESIGN SUPV.
TRANSMISSION
APPROVALS
P2 P3 BID CONST.

ISSUE DATE: ORIGINAL 2-15-84 LAST

UNDERWATER TIE-IN ASSEMBLY FOR 3198-2800

LOC. OFFSHORE : SO. TIMBALIER AREA

YEAR: 1979 M.G. 1758 DWG. OL-3198-2801-A1 REV.

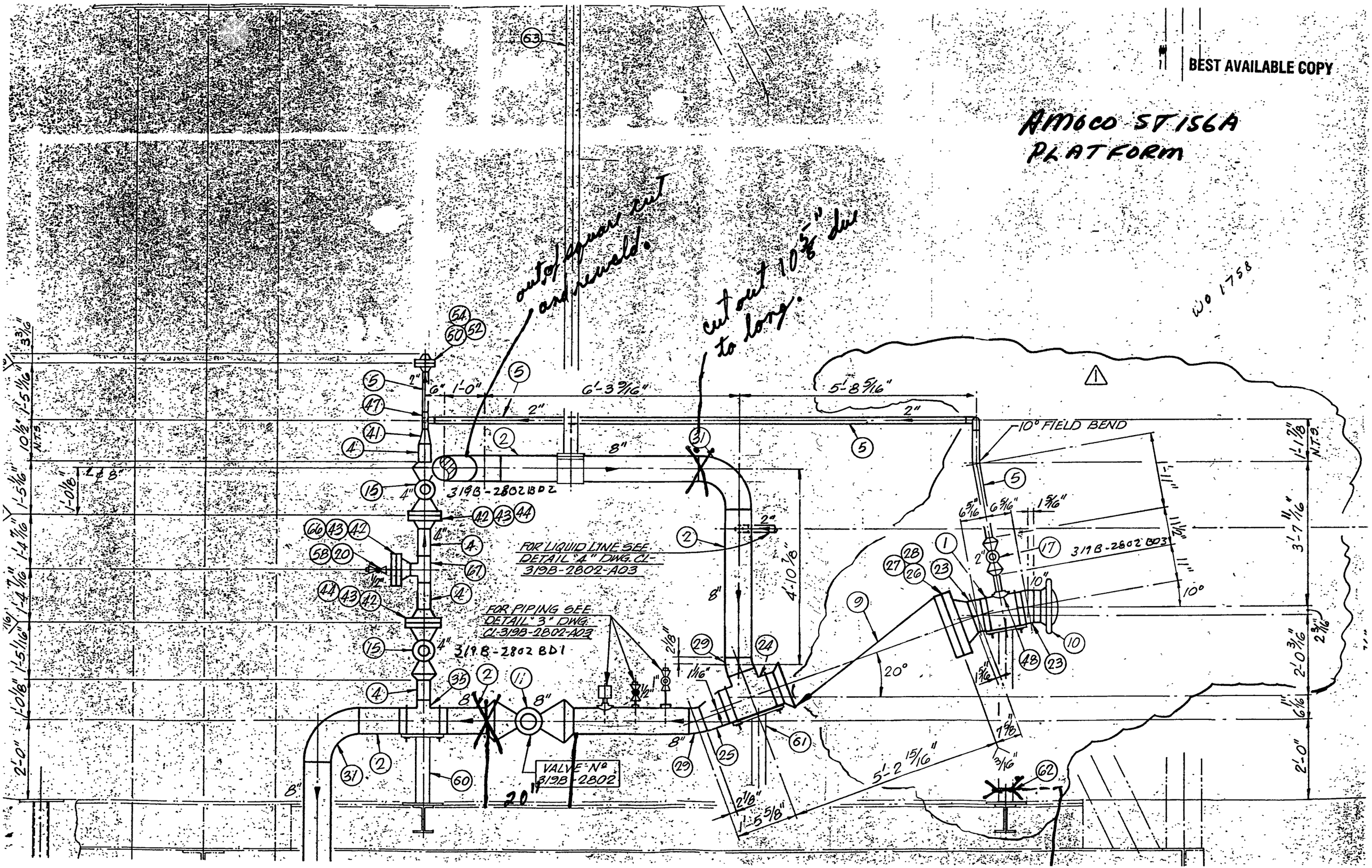
Trunkline Gas Company

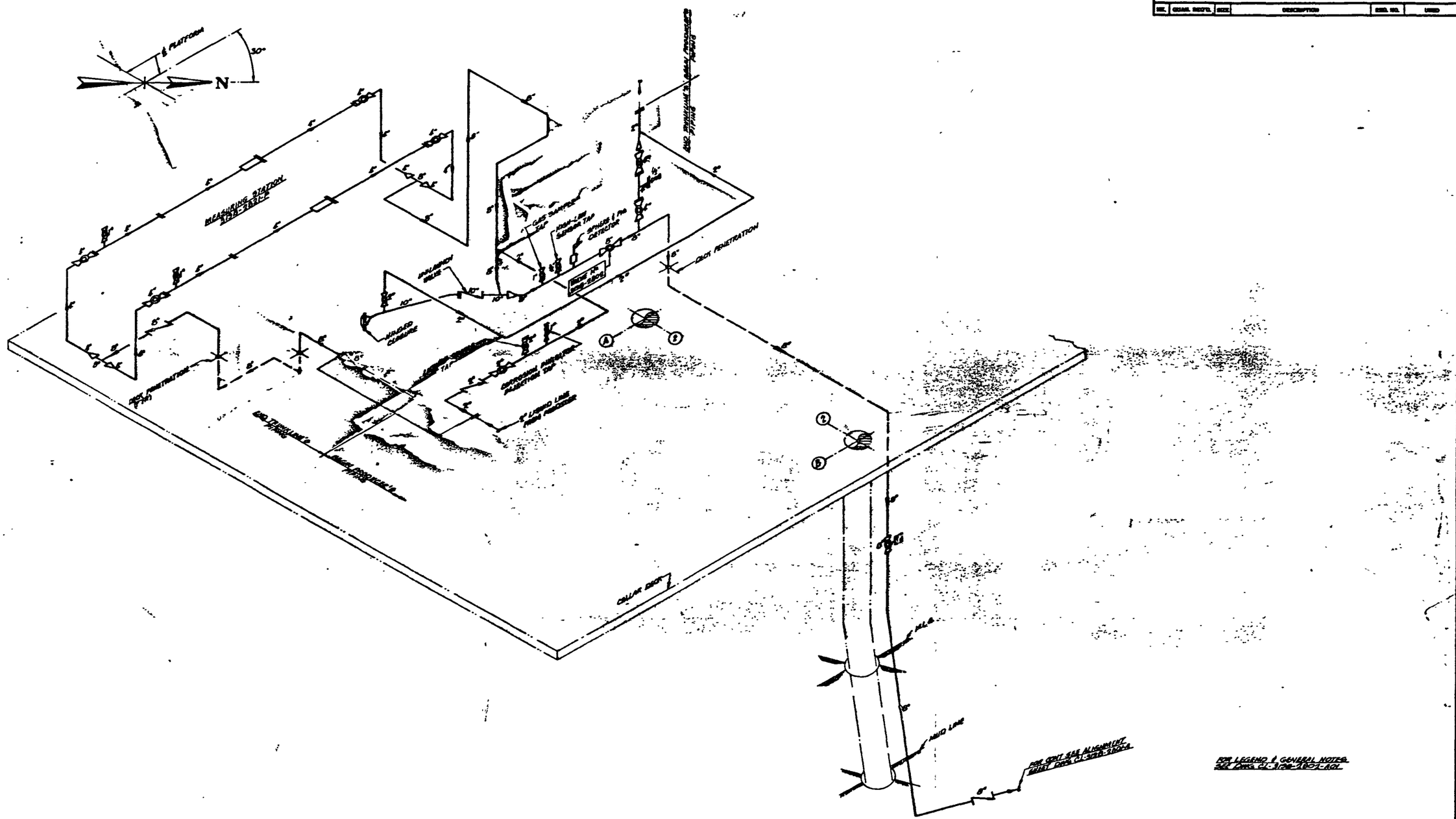
REVISED 2/31/82

BEST AVAILABLE COPY

AMOCO ST 156A
PLATFORM

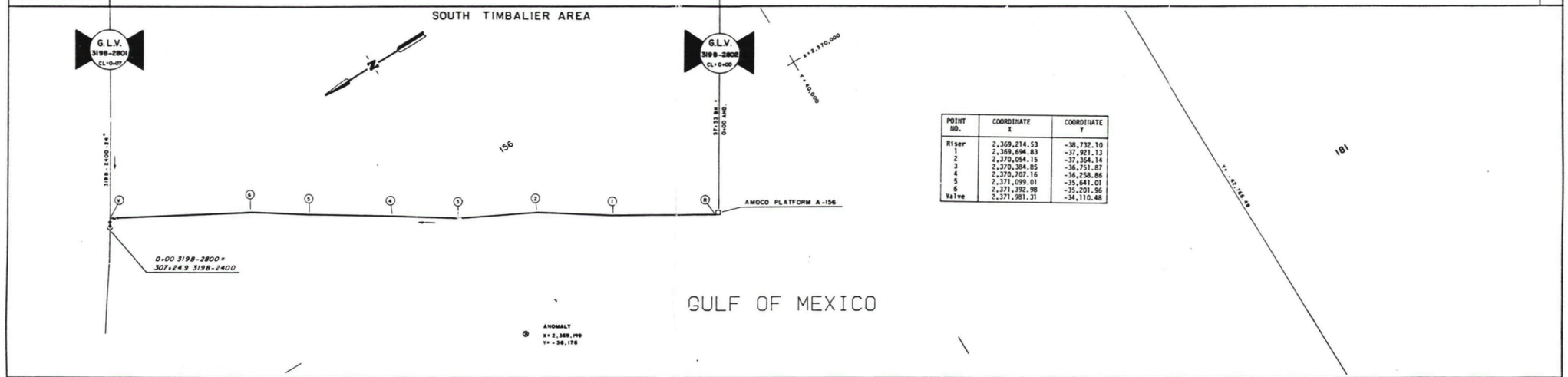
WO 1758





BEST AVAILABLE COPY

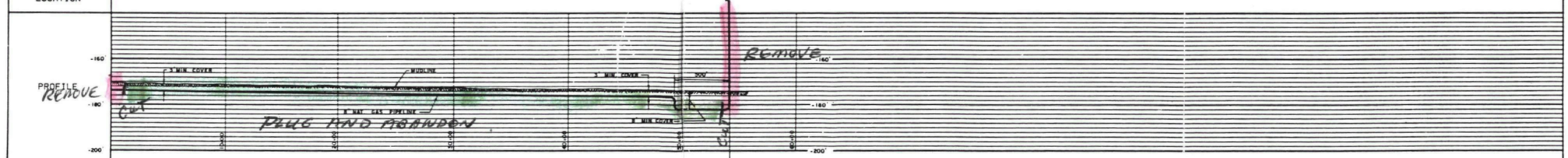
OWNERSHIP & LINE LIST NO.	0+00 — U.S. DEPARTMENT OF INTERIOR — 56+31
CLASS LOCATION	1



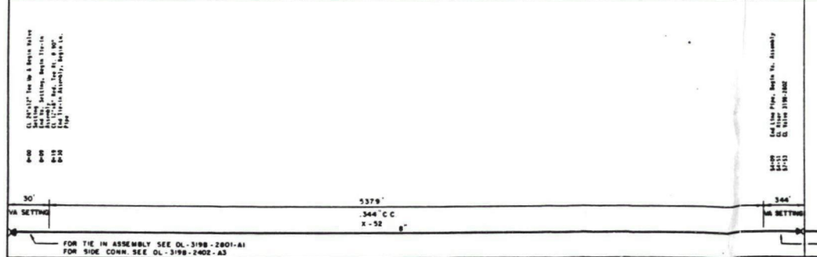
POINT NO.	COORDINATE X	COORDINATE Y
Riser	2,369,214.53	-38,732.10
1	2,369,694.83	-37,921.13
2	2,370,054.15	-37,364.14
3	2,370,384.85	-36,751.87
4	2,370,707.16	-36,258.86
5	2,371,099.01	-35,641.01
6	2,371,392.98	-35,201.96
Valve	2,371,981.31	-34,110.48

ANODE BRACELET LOCATION: *FIRST ANODE AT 350' THEN EVERY 500'*

PROFILE



FIELD NOTES



MISCELLANEOUS DATA

YEAR INSTALLED	1979	TEST-PERCENT OF YIELD	UNK.
FEET	5379	SPEC. MIN. YIELD	API-5LX-52
SIZE OF PIPE (O.D.)	8.625" x .344"	FIELD TEST PSI (HPT)	UNK.
KIND OF PIPE	SML.S.W.S.S	MECH. PROTECTION	UNK.
TYPE OF JOINT	SEW	CATH. PROTECTION	ANODES
DESIGN FACTOR		VALVE RATING P.S.I.	1440
MAOP	UNK	WORK ORDER	1758

DRWG. NO.	REFERENCE DRWG.	REV	DFM	CK	DESCRIPTION	DATE
OL-3198-2801-A1	TIE IN ASSEMBLY					
OL-3198-2802-A01	PLATFORM DETAILS					

DRAWN BY:	ATKINSON	8-26-83
DRAFTING CHECK BY:	TRB	12-19-83
MATERIAL CHECK BY:		
SCALE:	1"=400'	

APPROVALS	DATE
SQUAD LEADER:	
ELEC. ENGINEER:	
PROJECT ENGINEER:	
PROJECT LEADER DESIGN:	
PROJECT DESIGN SUPV.:	
TRANSMISSION:	

ISSUE DATE	ORIGINAL	LAST
	2-15-84	

319B-2800

Trunkline Gas Company

LOC. OFFSHORE : SO. TIMBALIER AREA

YEAR: 1979 | W. O. 1758 | DWG. OL-319B-2801-A | REV.

Z00030 10/27/82

BEST AVAILABLE COPY

Note: This form must be executed as an original.

UNITED STATES
DEPARTMENT OF THE INTERIOR
MINERALS MANAGEMENT SERVICE

NONDISCRIMINATION IN EMPLOYMENT

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

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

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

Signature of Grantee
THEOPOLIS HOLEMAN
Vice President
Trunkline Gas Company

Date: 4/23/93

FORMS\ROWAPP.FRM

4/30/93

To: Adjudication Unit (MS 5421)

From: Pipeline Unit, Field Operations (MS 5232)

Subject: Right-of-Way Relinquishment/Abandonment

Company: Trunkline Gas Company

Right-of-Way Number: OCS-G-4056

The subject abandonment has been reviewed and has been found to be in compliance with 30 CFR 250.157(c).

✓ Pipeline abandoned in place

_____ Pipeline abandoned by removal

_____ Pipeline never constructed

Mike Conner

Enclosure

RECEIVED
MAY 3 1993
MINERALS MANAGEMENT SERVICE
LEASING & ENVIRONMENT

TRUNKLINE GAS COMPANY
A UNIT OF PANHANDLE EASTERN CORPORATION

Dear Mike Connor:

Attached are two requests for facility abandonments lines 210A-100 and 318B-2800. Three sets of letter of request, procedures, and drawings are attached for each abandonment.

Amoco has asked us to expedite the abandonments and would like to have the abandonment complete by May 15,1993. We would appreciate any help you could give us in expediting the approval requests.

If you need any information please give me a call (318) 836-5689.

Jim Lehman

Jim Lehman

MINERALS MANAGEMENT SERVICE
RECEIVED
APR 29 1993
FIELD OPERATIONS
GOM OCS Region, New Orleans, La.

CENTERVILLE OFFICE PO BOX 69 CENTERVILLE LA. 70522 (318) 836-5689 FAX (318) 836-5142

5N5473

IN REPLY REFER TO

OCS-G 4056

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

South Timbalier Area

February 25, 1980

DECISION

Trunkline Gas Company	:	Right of Way for Pipe Line
	:	Date of Permit: 9/17/79
	:	Decision Requesting Proof of Construction Dated:
	:	Proof of Construction Received: 1/23/80

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 with minor deviations.

John L. Rankin
Manager

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

TRUNKLINE GAS COMPANY
P. O. BOX 1642
HOUSTON, TEXAS 77001

January 21, 1980

NEW ORLEANS OCS
FILE CODE
ROUTE INITIAL
MGR.
ASST. MGR.
JAN 23 1980
P. LEGAL
PAO
EAD
OPS
STUDIES
MGMT. SER.

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

Attention: Mrs. Boehn

RE: OCS-G-4056, Completion Report

In compliance with U.S. Department of the Interior's Code of Federal Regulations, Title 43, Public Lands, Interior Part 2883.2-3(a), I am forwarding you two (2) copies each of hydrostatic test results which include pressure readings, pressure chart and temperature chart. Also enclosed are three (3) copies each of as-built plats from John E. Chance & Associates of Line 319B-2800.

These are in confirmation of construction having been completed on 1.1 miles of 8" pipeline in Block 156, South Timbalier Area, offshore Louisiana under the above subject BLM permit.

I trust that this will satisfy the Regulations and, in turn, that you will grant your "Decision of Proof of Construction Accepted".

Very truly yours,

TRUNKLINE GAS COMPANY

Howard Cordova

HC:cc

Howard Cordova, Chief Clerk
Transmission Right of Way

Enclosures

DOUBLE "I" HYDROTEST, INC.
ROUTE 2, BOX 8A
GONZALES, LOUISIANA 70737
TELEPHONE: (504) 644-3048

HYDROSTATIC TEST REPORT

Deadwater SN-123
710-35255-1
From The Refinery Supply Co

Sheet 1 of 1

General Contractor: Brown + Root

Test Section: 1.1 mile 8" W.O. 1759

Minimum Pipe Elevation: 175' Below sea level

Maximum Pipe Elevation: 25' Above sea level

Elev. Base Dead Weight Tester: 10' Above sea level

Date Begun: 1-1-80

Date Completed: 1-2-80

Time	Dead Weight Reading—psi	TEMPERATURE Ambient	TEMPERATURE Test Medium
A.M. 9:00	started Pumping		
9:25	press-up 0-2175	55°	55°
— Test Head Leaking at weld —			
P.M. 1:25	Bled-down 2170-0	58°	57°
1:45	— Started Repair on Test Head —		
4:50	— started Pressuring up —		
5:20	press-up 0-2175	56°	58°
5:45	2173	54°	58°
6:00	2171	54°	58°
6:15	2169	54°	58°
6:30	2167	53°	58°
7:00	2167	53°	57°
7:30	2166	53°	57°
8:00	2164	53°	56°
8:45	press-up 2162-2175	54°	57°
9:00	2174	54°	57°
9:30	2174	54°	57°
10:00	2172	54°	57°
10:30	2171	54°	57°
11:00	2170	54°	57°
11:30	2170	54°	57°
12:00	2169	54°	57°

Time	Dead Weight Reading—psi	TEMPERATURE Ambient	TEMPERATURE Test Medium
A.M. 12:30	2169	54°	57°
1:00	2168	54°	57°
1:30	2168	54°	57°
2:00	2168	54°	57°
2:30	2168	53°	57°
3:00	2168	53°	57°
3:30	2168	54°	57°
4:00	2168	54°	57°
4:30	2168	54°	57°
4:45	2168	54°	57°

RECEIVED
JAN 23 11 15 AM '80
BUR OF LAND MGMT.
OUTER CONTINENTAL
SHELF OFFICE
NEW ORLEANS, LA

RESULTS OF TEST: [✓] Acceptable [ ] Unacceptable

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Owner's Representative

Franklin Bros Co
Company

Contractor's Superintendent

STROTHER PRINTING

TEJAS
INSTRUMENT ENGINEERS

PRESSURE CHART

1.1 mile of 8" W.O. 1758
ST 156

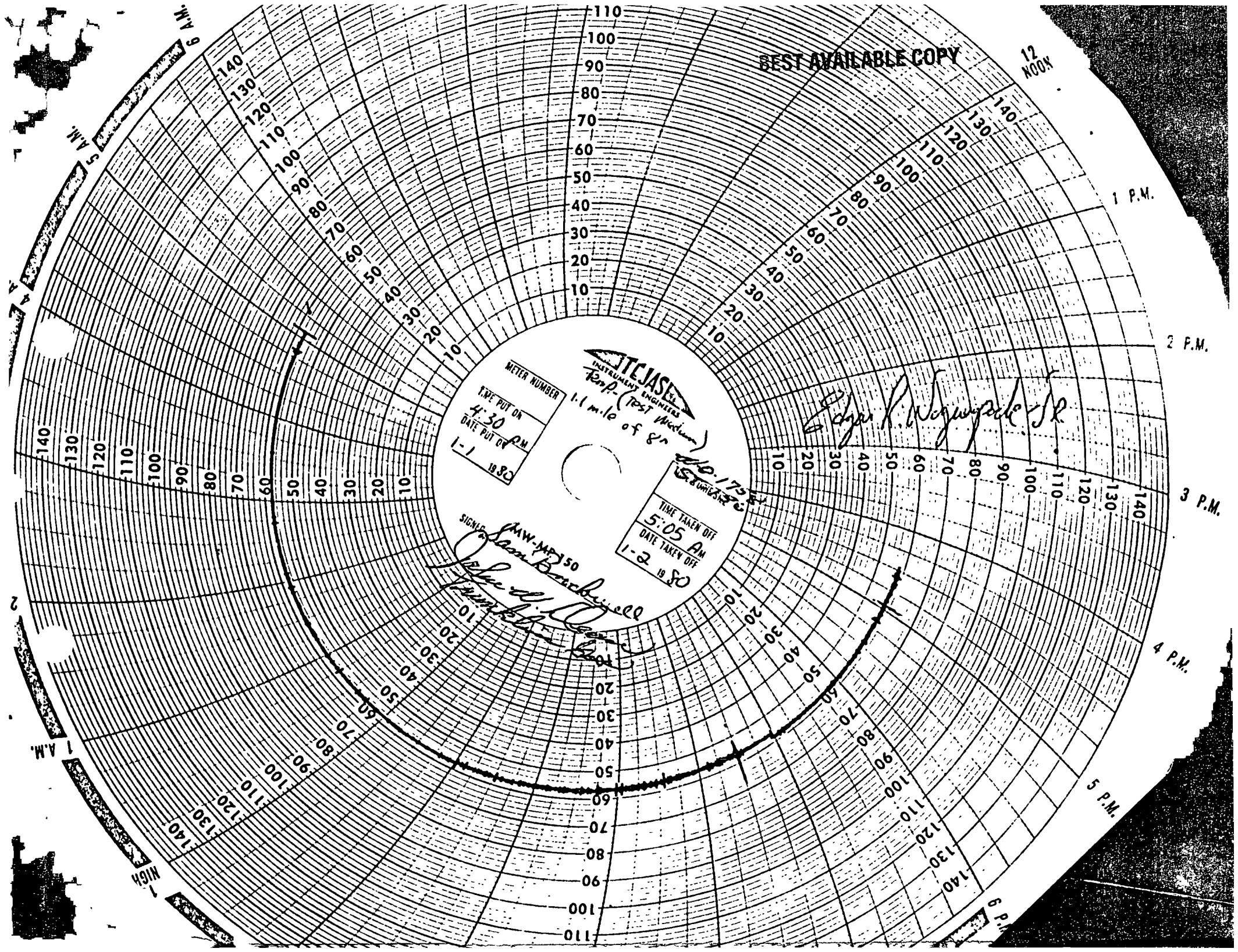
METER NUMBER	TUBE & ORIF SIZE
TIME PUT ON 4:30 PM	TIME TAKEN OFF 5:20 PM
DATE PUT ON 1-1 1980	DATE TAKEN OFF 1-2 1980

MW-MP 3000
P-3000

SIGNED Jim Brockwell
Jake W. Reyn
Franklin Lee

Edgar R. Wagner Jr.

8 A.M. 7 A.M. 6 A.M. 5 A.M. 4 A.M. 3 A.M. 2 A.M. 2 P.M. 3 P.M. 4 P.M. 5 P.M. 6 P.M. 7 P.M. 8 P.M.



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NOTIFICATION OF CONSTRUCTION:

Company representative furnishing the following information John Davenport

Telephone Number (713) 664-3401 Date 10-22-79

1. OCS Number G 4056

2. Name of Company TRUNKLINE GAS Company

3. Name of Contractor BROWN & ROOT, INC.

4. Name of lay barge # 289

5. Size of Pipeline 8" GAS 1.024 miles

6. From where to where Amoco Production Company's "A" platform to subsea tie with TRUNKLINE GAS Co.'s 24" p/l; all located in Block 156, South Timbalier Area.

7. Where construction begins and ends (i.e., which platform) @ Amoco Production Co's "A" platform and end at subsea tie.

8. Method of laying Conventional Lay

9. How long barge will be on job 7 days

10. Where heliports are available On Barge & Platform "A"

11. Does the pipeline cross safety fairway(s)? (Go to map for information) NO.

Where _____

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

Terminal: X = _____ Y = _____

12. When the barge will begin (date) 10-21-79

Notify: Frank Torres, U. S. Geological Survey, 837-4720, Ext. 237 (Give him items 1 10 & 12)). Date Contacted N/A

Notify only if construction crosses or in close proximity of fairways Chief O'Neil, Petty Officer Lutali, or Chief Flannegan, U. S. Coast Guard, telephone #6236 (upstairs). Give items 1 - 9 & 11 - 12. Date Contacted N/A

Items 1, 2, 5, 6, and 11 can be determined from the file if the company representative doesn't know them. Item 11 should be determined on a map in this office (see Bill Overstreet).

BLM Employee [signature] 10-19-79

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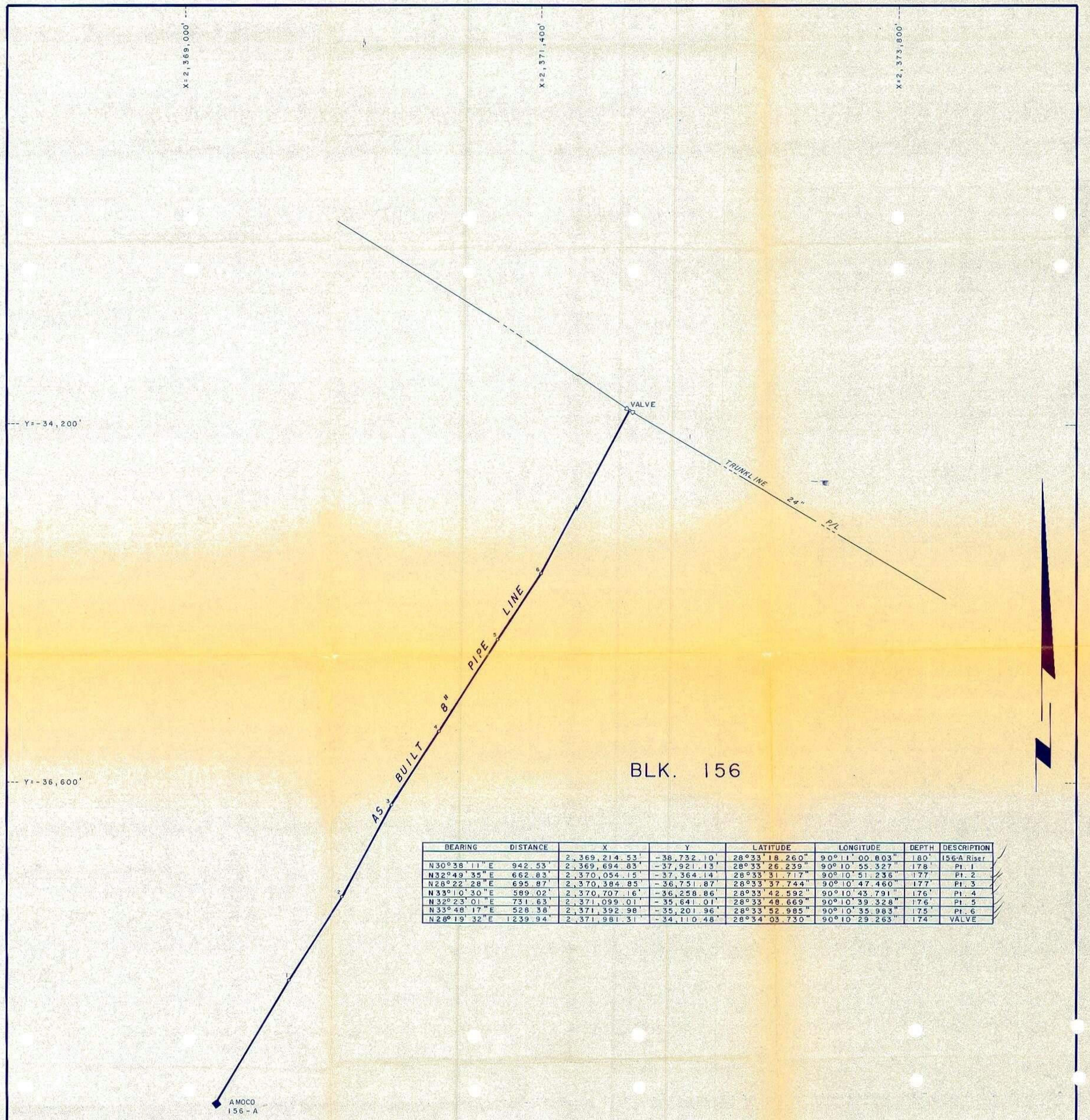

BEARING	DISTANCE	X	Y	LATITUDE	LONGITUDE	DEPTH	DESCRIPTION
		2,369,214.53'	-38,732.10'	28°33'18.260"	90°11'00.803"	180'	156-A Riser
N30°38'11"E	942.53'	2,369,694.83'	-37,921.13'	28°33'26.239"	90°10'55.327"	178'	Pt. 1
N32°49'35"E	662.83'	2,370,054.15'	-37,364.14'	28°33'31.717"	90°10'51.236"	177'	Pt. 2
N28°22'28"E	695.87'	2,370,384.85'	-36,751.87'	28°33'37.744"	90°10'47.460"	177'	Pt. 3
N33°10'30"E	589.02'	2,370,707.16'	-36,258.86'	28°33'42.592"	90°10'43.791"	176'	Pt. 4
N32°23'01"E	731.63'	2,371,099.01'	-35,641.01'	28°33'48.669"	90°10'39.328"	176'	Pt. 5
N33°48'17"E	528.38'	2,371,392.98'	-35,201.96'	28°33'52.985"	90°10'35.983"	175'	Pt. 6
N28°19'32"E	1239.94'	2,371,981.31'	-34,110.48'	28°34'03.730"	90°10'29.263"	174'	VALVE

OCS-G 4056

CERTIFIED CORRECT AS TO HORIZONTAL POSITION OF PIPE LINE.

Shuble J. Tenney Jr.

REGISTERED LAND SURVEYOR NO. 4335
STATE OF LOUISIANA
JOHN E. CHANCE & ASSOCIATES, INC.

STATE OF LOUISIANA
SHUBLE J. TENNEY, JR.
REG. No. 4335
REGISTERED
LAND SURVEYOR

PREPARED FOR BROWN AND ROOT

Seg 5473

TRUNKLINE GAS COMPANY

AS BUILT 8" PIPE LINE

SOUTH TIMBALIER AREA

GULF OF MEXICO

SCALE: 1" = 400' 1/4/80

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ON 5473 OCS-G 4056

South Timbalier Area

September 10, 1979

Trunkline Gas Company

Right-of-way

ACTION - APPLICATION APPROVED

Your application for an 8" natural gas pipeline from Amoco Production Company's Platform "A" to a subsea tie-in with Trunkline Gas Company's 24-inch pipeline (OCS-G 1693-H), all of which are located in Block 156, South Timbalier Area, dated June 28, 1979, with its attachments is hereby approved with the following additions and corrections:

1. The guidelines for preparation of a pipeline application that are applicable and agreed to by the applicant are dated February 13, 1978.

2. The unidentified anomalies located on Track 1004 at Position 1.2, Track 3007 at Position 7.5, and Track 3002 at Position 7.4 should be avoided by 150 meters when positioning lay barge anchors.

3. The ANSI 600 valves should not be subjected to a test pressure differential greater than 1,440 psig.

4. The ANSI 600 valves, flanges, and fittings should not be subjected to a body test greater than 2,175 psig.

5. The maximum allowable operating pressure (MAOP) for this pipeline is 1,219 psig, which is based on the MAOP of the 24-inch receiving pipeline (OCS-G 1693-H).

6. Hydrostatic test data including test procedure, hold time, two copies of the 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 ninety (90) days after completion.

The permittee agrees that if any site, structure, or object of historical or archaeological significance should be discovered during the conduct of any operations within the permitted right-of-way he shall report immediately such findings to the Manager, New Orleans OCS Office, and make every reasonable effort to preserve and protect the cultural resource from damage until the Manager, New Orleans OCS Office, has given directions as to its preservation.

Permittee agrees to comply with all regulations and conditions as may be prescribed by the Secretary of the Interior, or the Secretary of Transportation including, pursuant to section 21(b) of the OCS Lands Act, as amended, provisions

to assure maximum environmental protection by utilization of the best available and safest technologies, including the safest practices for pipeline burial. This agreement includes but is not limited to complying with the following stipulations:

1. Permittee shall transport or purchase without discrimination oil or natural gas produced from submerged lands or outer Continental Shelf lands in the vicinity of its pipeline in such proportionate amounts as the Federal Energy Regulatory Commission, in consultation with the Secretary of Energy, may, after a full hearing with due notice thereof to the interested parties, determine to be reasonable, taking into account, among other things, conservation and the prevention of waste.

2. Permittee shall operate its pipeline in accordance with the competitive principles set out in section 5(f)(1) of the Outer Continental Shelf Lands Act, as amended, except insofar as the Federal Energy Regulatory Commission may, by order or regulation, exempt such pipeline from any or all of the requirements of section 5(f)(1) pursuant to section 5(f)(2) (which permits such exemption of any pipeline or class of pipelines which feeds into a facility where oil and gas are first collected or a facility where oil and gas are first separated, dehydrated, or otherwise processed).

3. Unless so exempted by Federal Energy Regulatory Commission order or regulation, permittee shall operate its pipeline so as to provide open and nondiscriminatory access to both owner and nonowner shippers, and permittee shall comply with any specific conditions which the Secretary of Energy and the Federal Energy Regulatory Commission may require, after consultation with and due consideration given to the views of the Attorney General, to ensure that its pipeline is operated in accordance with the competitive principles set forth in section 5(f)(1).

John L. Rankin, Manager
Date: September 17, 1979

Trunkline Gas Company hereby agrees to be bound by the foregoing.

VICE PRESIDENT

Date: 9/13/79

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

United States Department of the Interior

GEOLOGICAL SURVEY
434 IMPERIAL OFFICE BLDG., 3330 CAUSEWAY BLVD.
P O BOX 7944
METAIRIE, LOUISIANA 70001

TEL (504) 837-4720

In Reply Refer To: OS-5

Memorandum

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

From: Conservation Manager, Gulf of Mexico Region

Subject: Trunkline Gas Company's Pipeline Right-of-Way Application, BLM OCS-G 4056

We have reviewed the safety features and design specifications for the subject Right-of-Way Application, dated June 28, 1979, in accordance with the MOU dated August 1, 1974. It is for the construction, maintenance, and operation of an 8 5/8-inch gas pipeline 5,406 feet in length from Amoco's Platform "A", to a subsea tie-in with Trunkline Gas Company's 24-inch pipeline, all of which are located in South Timbalier Block 156, lease OCS-G 2928.

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	2,986 psig
Riser component	2,029 psig
Valves, flanges, fittings	1,440 psig

The hydrostatic pressure test with water will be at 2,160 psig for eight hours. The ANSI 600 valves should not be subjected to a test-pressure differential greater than 1,440 psig. The ANSI 600 valves, flanges, and fittings should not be subjected to a body test greater than 2,175 psig.

Based on these calculations and a maximum allowable operating pressure (MAOP) of 1,219 psig of the receiving 24-inch Trunkline Gas Company pipeline (BLM OCS-G 1693-H), we recommend that the MAOP for this pipeline be 1,219 psig and that this pressure may be exceeded only when hydrostatically pressure-testing the pipeline. We also recommend that valves and taps at the subsea tie-in 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.

Harry A. duPont
Acting Conservation Manager

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4056-1

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:

I. SOP

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

II. POD

_____ a. Is the pipeline presently covered by an approved Plan of Development (POD)? (Discuss ROU&E with Doug.) If yes, go to III. If No, go to 250.34. (Requires submittal to POD/P by operator to District.)

III. USGS Application

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

X 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 injunction 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 continguous lease boundaries. (If yes, include 30 CFR 250.19(b) in approval.)

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

_____ e. Lessee's "intent to cross" letter are received. (Wait 30 days for letters of objection. Only objections concerning interference with lease operations will be considered.)

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

4056-2

_____1. FWS notified _____.

_____2. FWS comment received_____.

_____3. BLM notified _____.

_____4. BLM comment received _____.

_____5. Environmental Impact Evaluations completed _____.

_____6. If related to new POD/P, date of POD/P approval_____.

IV. 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).

V. DOT Pipelines

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

VI. DOI Pipelines

NA a. Pipelines not covered by V above.

4056-3

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.

NA 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. SSTI

NA 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 is equipped with a check valve. SSTI

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

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

N/A 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 Contactor or Coalescer

✓ b. Maximum source pressure, psig 1440.

✓ IX. The rated working pressures of all separators, pumps, compressors, valves, flanges, and fittings upstream of and including the boarding automatic fail close valve are shown. ANSI 600 1440 psi

P/L EC SA 267

2 P/L

STINGERY 20" GAS

SEA ROBIN 20" GAS

SISE

OIL ?

GAS

4056-4

C. Verify that the location plat depicts the following:

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✓ I. Location of P/L

✓ II. Length of P/L

✓ III. Size of P/L

✓ IV. Type of service

✓ V. Direction of flow

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

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

a. Size of P/L, inches 8.625."

b. Weight of P/L, lbs./ft. 30.4#.

c. Grade of P/L X52.

d. Wall thickness, inches 0.344.

e. Size of riser, inches 8.625.

f. Weight of riser, lbs./ft. 43.3.

g. Grade of riser B.

h. Wall thickness of riser, inches 0.500.

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

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

k. Hold time, hrs. 8 hrs.

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

m

4056-5

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

_____ $\leqq$ _____ $\leqq$ _____

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)

_____g. HTP/1.25 = _____

_____h. Is HTP hold time $\geqq$ 2 hours

_____i. MAOP of receiving pipeline from IV _____.

_____j. $MAOP_{p/1}$ = the smallest of b, d, e, g, and i above

_____ ($MAOP_{p/1}$)

_____k. Test pressure ANSI & API carbon steel RTJ & RF Flanges and Valves

_____ (From Table 3.1 Page 31 API RP 14E)

_____l. Is k > HTP

NOTE: If not, add statement in approval letter to insure valves and flanges are not subjected to test pressure.

_____m. Is j $\geq$ MSP

_____ $\geq$ _____

If not, one of the following is necessary:

_____1. Redundant safety equipment is afforded.

_____2. A departure from the requirement for redundant safety equipment.

4056-6

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III. DOT Pipelines

a. IP @ SMYS for submerged pipeline = $\frac{2st}{D}$ = $\frac{2 \times 52{,}000 \times 0.344}{8.625}$ = 4148

b. (.72 x IP @ SMYS) for submerged pipeline = 2986 ($MAOP_{sc}$)

c. IP @ SMYS for riser = $\frac{2st}{D}$ = $\frac{2 \times 35{,}000 \times 0.500}{8.625}$ = 4058

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

For gas P/L (.50 x IP @ SMYS) for riser = 2029

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

√ f. Are b, d, and e ≥ MSP

1440 ≥ 1440

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. Limit of Testing

NA 1. For oil P/L:

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

_____ ≤ _____ ≤ _____

√ 2. For gas P/L riser component:

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

2160 ≤ 2160 ≤ 3855

√ 3. For gas P/L submerged component:

Is 1.25 MSP ≤ HTP of submerged component ≤ .95 (IP @ SMYS of a above)

1800 ≤ 2160 ≤ 3940

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

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

4056-7

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

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

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

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

i. NA 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

1219 ($MAOP_{p/l}$)

k. Test pressure ANSI & API carbon steel RTJ & RF flanges and valves

2175 (From table 3.1 page 31 API RP 14E)

l. Is k > HTP

NOTE: If not, add statement in approval letter to insure valves and flanges are not subjected to test pressure.

4056-56

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IV. Pipeline Receiving Production (Installed Prior to July 31, 1977)

		Submerged Component	Riser
a.	Size,inches	24"	
b.	Grade		
c.	Wall thickness, inches		
d.	Minimum working pressure of valves and flanges		(MAOPpfv)
e.	Date of last hydrostatic test		
f.	HTP, psig		
g.	Hold time, hours		
h.	MAOP based on HTP HTP/1.25		
i.	IP@SMYS for submerged P/L 2ST/D		
j.	(.72 X IP@SMYS) for submerged P/L		(MAOPsc)
k.	IP@SMYS for riser 2ST/D		
l.	(.60 X IP@SMYS) for riser		(MAOPrc)

G 1693 H

From GI 94B

To JT 151 PP

MAOP 1219 psig

m. If the receiving P/L is a DOT gas P/L and has not been tested since July 1, 1971, then what is the HAOP to which the segment was subjected during the 5 years prior to July 1, 1976? _____

n. MAOP of receiving P/L _ MAOP of proposed P/L _
MAOP of proposed 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 ($LE_{p/1}$)

I. General Information for Calculating $LE_{p/1}$

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

NA b. If platform anodes are used:

1. Type of anode _____

2. Weight of unit anode, lbs. _____

✓ c. If pipeline anodes are used:

1. Type of anode ZINC

2. Spacing interval, ft. 500'

3. Weight of unit anode, lbs. 120 #

II. Calculated Life Expectancy of Corrosion Protection

NA a. If platform anodes are used, are they considered adequate _____

✓ b. If pipeline anodes are used: $3.82 \times 10^4 \times (120/8.625 \times 500 \times 26)$

$LE_{p/1} = 3.82 \times 10^4 \times W^o/DIR? =$ 40.9

W^o = weight of one anode, pounds =

D = outside diameter of pipe, inches

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

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

✓ c. Is our calculated $LE_{p/1} \geq 20$ years

4056-10

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

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

a. Description of pipelines protective coating 4/36" Enamel & 1" of 140#/ft³ Concrete Coating

b. Description of risers protective coating _____

c. Description of pre-concrete coating _____

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

e. Thickness of concrete, inches 1"

f. Thickness of asphalt/somastic _____

g. Gravity or density of products _____

For gas 0.6 (air = 1.0)

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

h. Given $SG_{p/1}$ 1.53

4056-11

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II. $SG_{p/1}$

NA a. Expoxy-coated pipelines:

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

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

D = diameter of pipe, inches

✓ b. For weighted pipelines:

$$SG_{p/1} = \frac{d_c}{d} + \frac{k_2}{(T-k_1)^2}\left(\frac{W+P}{k_3} - \frac{d_c}{d}\right) = 2.187 + \overbrace{\frac{140}{64} + \frac{20.25}{(1+4.5)^2}}^{-.6308952}\left(\frac{30.4+4.81}{28.28} - \frac{140}{64}\right)$$

$$= 1.556$$

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.

$SG_{p/1}$ = 1.55

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

1.56 ≅ 1.53

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. 170 (Max) _____ (Min)

II. Burial depth, ft. 3'

III. Maximum Operating Pressure (MOP) 1440

IV. Capacity _____

05-5

IN REPLY REFER TO
OCS-G 4056

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

4056-1
0

July 18, 1979

Memorandum

To: Conservation Manager
Gulf of Mexico OCS Operations, USGS

From: Manager
New Orleans OCS Office, BLM

Subject: Trunkline Gas Company's Pipeline Right-of-Way Application (OCS-G 4056)

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 enclosed.

Please review the technical aspects of the proposed pipeline. If you have any questions regarding this matter, please contact Mr. Autry J. Britton of this office.

Acting

Enclosures (3)

1-Application dated June 28, 1979
2-Drawings No. PRP-319B-2801-2 and PRP-319B-2801-1
3-Drawing No. PRP-319B-2801-AO

NOTED-MC INTOSH

BEST AVAILABLE COPY

TRUNKLINE GAS COMPANY
3000 BISSONNET AVENUE
P. O. BOX 1642
HOUSTON, TEXAS 77001

RECEIVED
JUL 6 9 43 AM '79
BUR OF LAND MGMT.
OUTER CONTINENTAL
SHELF OFFICE
NEW ORLEANS, LA.

A.W. McANNENY
VICE PRESIDENT
CHIEF ENGINEER

June 28, 1979

4056-1

1

CERTIFIED MAIL - Return Receipt Requested

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

Dear Mr. Rankin:

Pursuant to Section 5(c) of the Outer Continental Shelf Lands Act of August 7, 1953 (67 STAT 464), and the regulations promulgated thereunder (43 CFR 2883), Trunkline Gas Company hereby makes application in duplicate for a right-of-way 200 feet in width for the proposed construction of 1.024 miles of 8" pipeline in Block 156, South Timbalier area, offshore Louisiana. The specific location and details of the proposed pipeline are shown on the attached Drawing No. PRP-319B-2801-1. Also enclosed is Vicinity Map No. PRP-319B-2801-2.

This pipeline will connect Amoco's platform 156-A to underwater tap on Trunkline's 24" pipeline 319B-2400 in same Block. Tentative construction starting date is September 1, 1979. It is anticipated that the Lay Barge method of construction will be utilized.

Miscellaneous leaseholders will be affected by this pipeline. These leaseholders have been notified by Certified Mail, and copies of these letters and Certified Receipts are attached.

Other pertinent data relative to this project is as follows:

1. Check in the amount of $10.00 covering first year's rental (based on $5.00 per mile or fraction thereof), for 1.024 miles of pipeline, and check in the amount of $10.00 covering the application fee.

40561-1
2

2. The following information is being furnished in accordance with U. S. Department of Interior Guidelines dated April 1, 1976, and amended February 1, 1977, and is to be used in the preparation of the application for right-of-way for the above described pipeline.

   A. Map - See Trunkline Gas Company Drawing Numbers PRP-319B-2801-1 and PRP-319B-2801-2.

   B. Schematic - See Trunkline Gas Company Drawing Number PRP-319B-2801-A0.

   The rated working pressure of all valves and fittings is 1440 psig @ 100°F. The producer will provide the pressure control line to the hi-lo pressure sensor tap which automatically shuts his valves in the event of an upset which causes a dangerously high or low pressure condition (see Trunkline Gas Company Drawing Number (PRP-319B-2801-A0).

   C. Additional information.

   For additional information, please contact:

   1. J. L. Deavenport
      Houston, Texas 77001
      (713) 664-3401, Extension 331.

   2. Line pipe will be 8 5/8" O.D. x .344" W.T. x 30.4 lbs/ft API-5LX52 pipe. Riser pipe will be 8 5/8" O.D. x 500" W.T. x 43.3 lbs/ft API-5L, Grade B or ASTM A-106 Grade B pipe.

   3. Anode material will be zinc, in accordance with military specification MIL 1800 1H. The anodes for 8 5/8" O.D. x .344" W.T. pipe weigh approximately 120 lbs. each and are spaced at 500 foot intervals.

      Design Criteria: 40 Year Life
      2% Bare Pipe
      5 MA/sq. ft. Current

      For 40 Year Life: 40 Years x 26#/Amp-Year
      = 1040#/Amp

4056-1
3

<u>At 5 MA/sq. ft.:</u> 1040# Amp x .005 Amps/sq. ft.
= 5.2# sq. ft. of Bare Pipe
2% Bare Pipe
5.2#/sq. ft. x .02 = .104# sq. ft.

<u>For 8 5/8" O.D. Pipe:</u> Area in 500 ft. of 8 5/8" Pipe
A = 8.625 x 3.1416 x 500/12 =
1129 sq. ft.

Zinc Required/500 ft. = 1129 x
.104 = 117.4#. Use 120# Anodes.

4. The pipeline will be coated with 4/32" enamel and wrap and 1" of 140 lbs./cu. ft. concrete weight coating. The average weight per foot of coated pipe is 63.3 lbs./ft. The specific gravity in salt water is 1.53.

5. Taps are provided for taking samples of the gas and condensates for analysis and for monitoring the water content of the gas. Taps are also provided for the continuous injection of corrosin inhibitors into the pipeline.

6. The specific gravity of the empty pipeline is 1.53 in salt water.

7. The specific gravity of the gas is 0.60.

8. The maximum operating pressure is 1200 psig and the minimum operating pressure is 900 psig.

9. The maximum allowable pressure (MAP) for the pipeline is:

$$MAP = \frac{2st}{D} \times F \times E \times T$$

Where s = 52,000 psi
t = 0.344 in.
D = 8.625 in.
F = 0.72
E = 1.00
T = 1.00

$$MAP = \frac{(2)\ (52{,}000)\ (.344)\ (.72)\ (1)\ (1)}{8.625}$$

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MAP = 2986 psig for Pipeline

The maximum allowable pressure for the riser pipe is:

$$MAP = \frac{2(35{,}000)\ (.500)\ (.5)\ (1)\ (1)}{8.625}$$

MAP = 2029 psig for Riser

The MAP for the platform piping is limited to 1440 psig for valves and flanges which are ANSI 600 rating.

10. The pipeline, riser and platform piping will be hydrostatically tested to a minimum of 2160 psig for a period of not less than 8 hours.

11. Pumps and prime movers - not applicable.

If these enclosures meet with your approval, we shall appreciate receiving the necessary Permit at your earliest convenience. In the event you have need of further information, please contact us as soon as possible in order that we may furnish it to you.

Very truly yours,

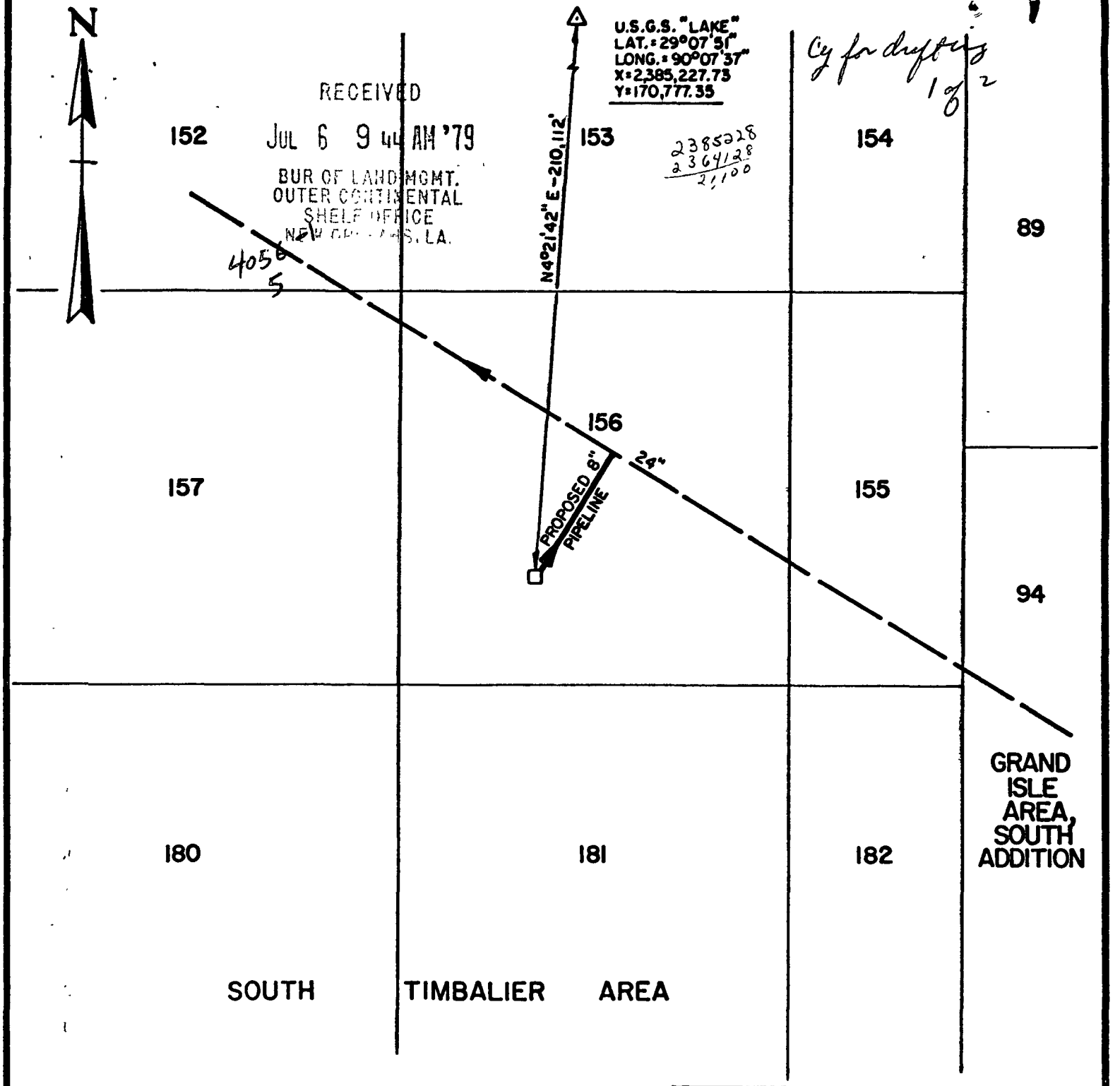
TRUNKLINE GAS COMPANY

A. W. McAnneny
Vice President

AWM:HC:dc

Enclosures

cc: K. A. Hamilton
C. L. Gray



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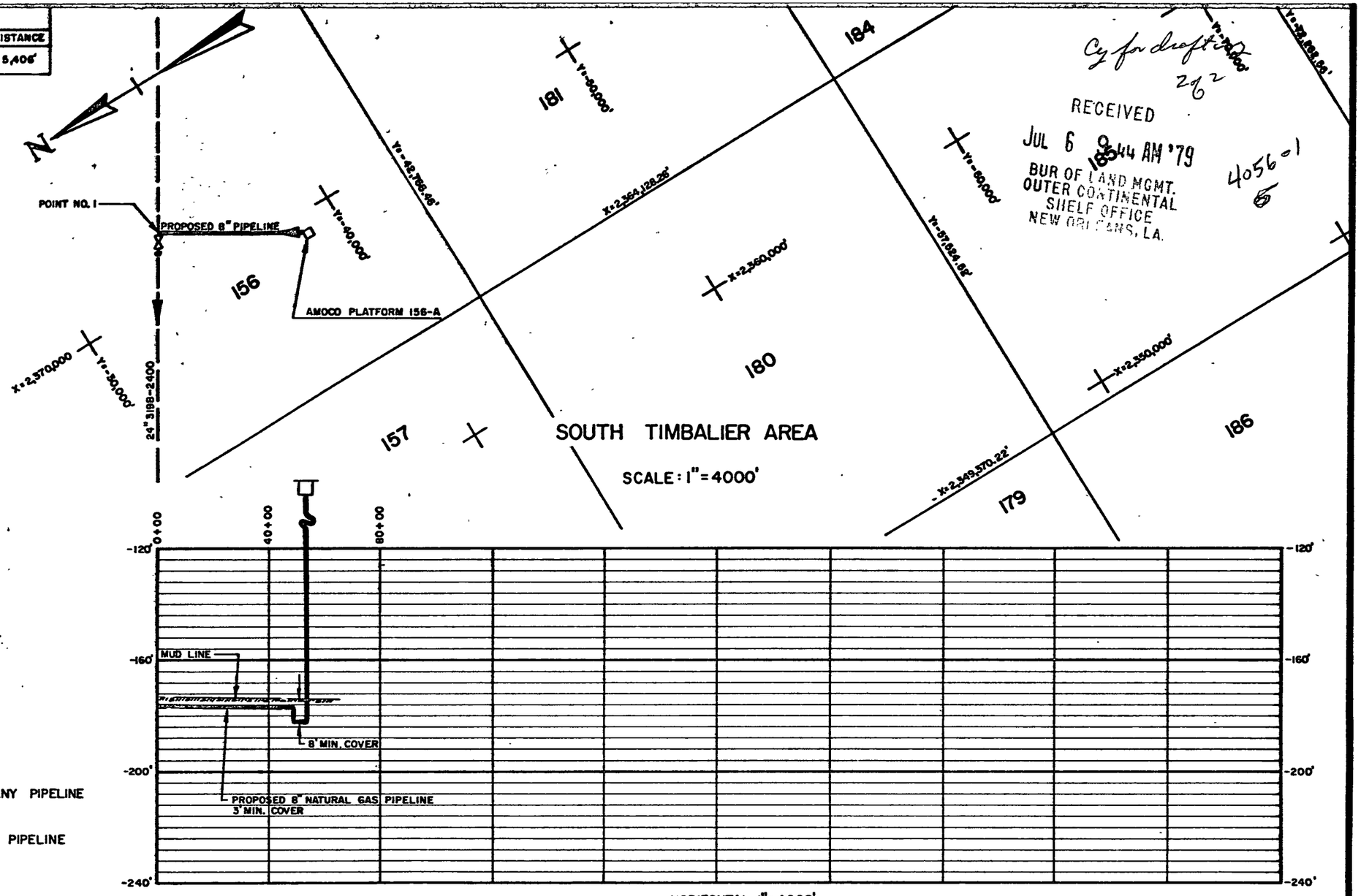
LEGEND

- PROPOSED TRUNKLINE GAS COMPANY PIPELINE
- PRODUCERS PLATFORM
- EXISTING TRUNKLINE GAS COMPANY PIPELINE
- U.S.G.S. TRIANGULATION STATION OR U.S.C. & G.S. TRIANGULATION STATION

	PRP-319B-2801-2	PROPOSED RIGHT OF WAY
APV	DWG NO	REFERENCE DRAWING
	TRUNKLINE GAS COMPANY ENGINEERING DEPARTMENT HOUSTON, TEXAS	
REVISION	VICINITY MAP FOR U.S. DEPARTMENT OF INTERIOR 8" PIPELINE OFFSHORE: SOUTH TIMBALIER AREA	
	SCALE 1" = 1 Mile	APPD CH. DR
	DRAWN Victor & H.P.C. Jr.	APPD ENGR.
	CHECKED CARRIGER 5/23	APPD. CH ENGR.
NO	DATE 5-21-79 / FIELD BOOK NO	PRP-319B-2801-1

OCS-G 4056

PROPOSED TRUNKLINE PIPELINE				
POINT NOS.	X-COORDINATE	Y-COORDINATE	BEARING	DISTANCE
1 156-A RISER	2,372,081.5' 2,369,248.0'	-34,121.5' -38,726.0'	S31°36'26"W	5,406'



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BUR OF LAND MGMT.
OUTER CONTINENTAL
SHELF OFFICE
NEW ORLEANS, LA.

4056-1
6

LENGTH OF PIPELINE

5,406 FEET
1.024 MILES

LEGEND

- PROPOSED TRUNKLINE GAS COMPANY PIPELINE
- PRODUCERS PLATFORM
- EXISTING TRUNKLINE GAS COMPANY PIPELINE
- OFFSHORE BLOCK LINE

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NOTES:

1. RIGHT OF WAY AND DESIGN FACTORS COMPLY WITH D.O.T. REGULATIONS.
2. RIGHT OF WAY HAS BEEN ACCURATELY DELINEATED ON THIS MAP.
3. ALL BEARINGS & DISTANCES ARE REFERENCED TO LOUISIANA STATE COORDINATE SYSTEM.(SOUTH ZONE)
4. PIPELINE IS TO BE USED TO TRANSPORT NATURAL GAS FROM SOUTH LOUISIANA TO INDIANA, ILLINOIS, AND MICHIGAN AREA.
5. PERMANENT RIGHT OF WAY TO BE 200 FEET WIDE.
6. PIPELINE SHALL HAVE 3 FEET MINIMUM COVER IN WATER DEPTHS BETWEEN 10 FEET AND 200 FEET. IN WATER DEPTHS GREATER THAN 200 FEET THE PIPELINE WILL NOT BE BURIED EXCEPT FOR TOP OF SIDE VALVE ASSEMBLIES WHICH SHALL HAVE ONE FOOT OF COVER.
7. SPOIL SHALL BE [illegible]AD SO AS NOT TO RAISE EXISTING BED MORE THAN [illegible]CHES.

A.E. Fawcett III
REGISTERED MECHANICAL ENGINEER
NO. 22579
STATE OF TEXAS
A.E. FAWCETT III

INFORMATION CONTAINED HEREON IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE.

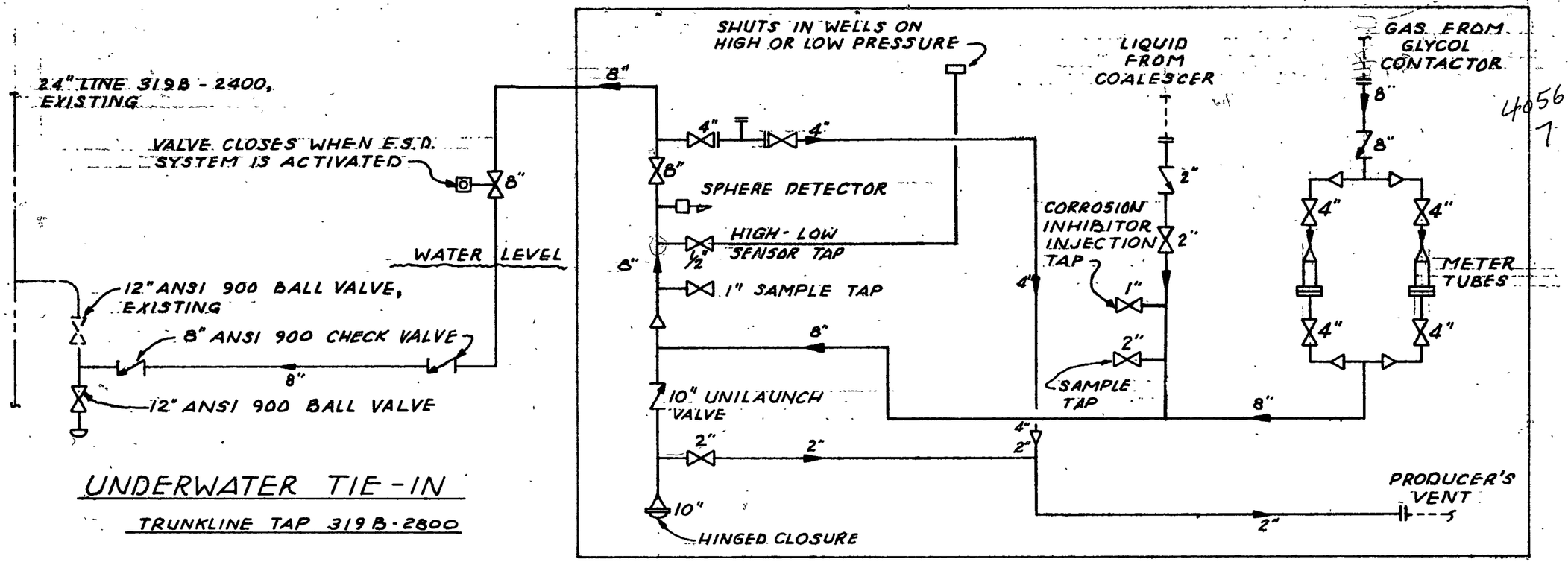
STATE OF TEXAS
A.E. FAWCETT III
22579
REGISTERED PROFESSIONAL ENGINEER

OCS-G 4616

PRP-319B-2801-r		VICINITY MAP
DWG. NO.		REFERENCE DRAWING
TRUNKLINE GAS COMPANY ENGINEERING DEPARTMENT HOUSTON, TEXAS		
PROPOSED RIGHT OF WAY FROM U. S. DEPARTMENT OF INTERIOR 8" PIPELINE OFFSHORE: SOUTH TIMBALIER AREA		
SCALE AS NOTED		APPD. CH. DR.
DRAWN Viator & H.P.C. Jr.		APPD. ENGR.
CHECKED CARRIGER 5/23		APPD. CH. ENGR.
DATE	FIELD BOOK NO.	PRP-319B-2801-2
5-21-79		

APVL. REVISION NO.

G2-B29A



UNDERWATER TIE-IN

TRUNKLINE TAP 319B-2800

4056-1
7

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AMOCO PLATFORM

S.T. 156A

NOTES:

1. DESIGN CRITERIA: P = 1440 PSIG, T = 100°F

   DESIGN FACTOR: PLATFORM PIPING & RISER - 0.50
   PIPLINE - 0.72

2. ALL FLANGES AND VALVES ARE ANSI 600 UNLESS OTHERWISE NOTED.

3. PLATFORM PIPING & RISERS TO BE HYDROSTATICALLY TESTED TO 2160 PSIG MINIMUM.

4. GAS SOURCE TO BE FROM PRODUCER'S GLYCOL CONTACTOR WITH MAOP OF 1440 PSIG AND A WORKING PRESSURE OF 1200 PSIG.

5. LIQUID SOURCE TO BE FROM PRODUCER'S COALESCER WITH A MAOP OF 1440 PSIG AND A WORKING PRESSURE OF 1200 PSIG.

6. DESIGN CRITERIA COMPLIES WITH D.O.T. REGULATIONS FOR PLATFORM PIPING, RISER AND PIPELINE, 49 CFR PART 192.

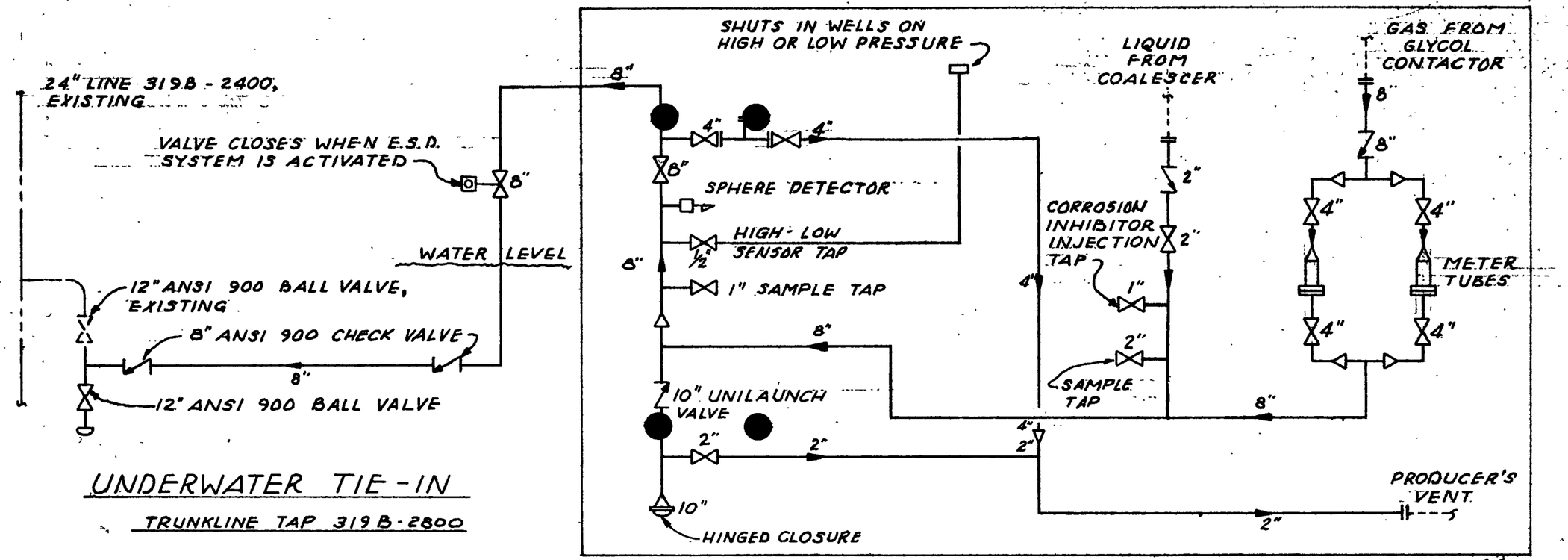
A. E. Fawcett III
REGISTERED MECHANICAL ENGINEER
NO. 22579
STATE OF TEXAS
A.E. FAWCETT III

INFORMATION CONTAINED HEREON IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE.

STATE OF TEXAS
A.E. FAWCETT III
22579
REGISTERED PROFESSIONAL ENGINEER

OCS-G 4056

APVL.	DWG. NO.	REFERENCE DRAWING
	TRUNKLINE GAS COMPANY ENGINEERING DEPARTMENT HOUSTON, TEXAS	
REVISION	FLOW DIAGRAM AMOCO S.T. 156A TO TRUNKLINE TAP 319B-2800	
	SCALE NONE	APPD. CH. DR.
	DRAWN J.T.	APPD. ENGR.
	CHECKED J.C.F.	ASST. APPD. CH. ENGR.
NO.	W.O. NO. / FIELD BOOK NO.	PRP-319B-2801-A0



UNDERWATER TIE-IN

TRUNKLINE TAP 319 B-2800

BEST AVAILABLE COPY

AMOCO PLATFORM

S.T. 156A

NOTES:

1. DESIGN CRITERIA: P = 1440 PSIG, T = 100°F

   DESIGN FACTOR: PLATFORM PIPING & RISER - 0.50
   PIPLINE - 0.72

2. ALL FLANGES AND VALVES ARE ANSI 600 UNLESS OTHERWISE NOTED.

3. PLATFORM PIPING & RISERS TO BE HYDROSTATICALLY TESTED TO 2160 PSIG MINIMUM.

4. GAS SOURCE TO BE FROM PRODUCER'S GLYCOL CONTACTOR WITH MAOP OF 1440 PSIG AND A WORKING PRESSURE OF 1200 PSIG.

5. LIQUID SOURCE TO BE FROM PRODUCER'S COALESCER WITH A MAOP OF 1440 PSIG AND A WORKING PRESSURE OF 1200 PSIG.

6. DESIGN CRITERIA COMPLIES WITH D.O.T. REGULATIONS FOR PLATFORM PIPING, RISER AND PIPELINE, 49 CFR PART 192.

A.E. Fawcett III
REGISTERED MECHANICAL ENGINEER
NO. 22[illegible]9
STATE OF TEXAS
A.E. FAWCETT III

INFORMATION CONTAINED HEREON IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE.

STATE OF TEXAS
A.E. FAWCETT III
22579
REGISTERED PROFESSIONAL ENGINEER

DCS-6 4056

DWG. NO.	REFERENCE DRAWING

TRUNKLINE GAS COMPANY
ENGINEERING DEPARTMENT — HOUSTON, TEXAS

FLOW DIAGRAM
AMOCO S.T. 156A TO
TRUNKLINE TAP 319B - 2800

SCALE NONE	APPD. CH. DR.
DRAWN J.T.	APPD. ENGR.
CHECKED J.C.F.	APPD. CH. ENGR.
W.O. NO. / FIELD BOOK NO.	PRP-319B-2801-A0

APVL. REVISION NO.