

In Reply Refer To: MS 5421
OCS-G 7101

August 29, 1991

ACTION

Chevron U.S.A. Inc.

Right-of-way

RELINQUISHMENT OF RIGHT-OF-WAY GRANT
ABANDONMENT OF PIPELINE

On June 1, 1984, Tenneco Oil Company filed an application for a right-of-way two hundred feet (200') in width for the construction, maintenance, and operation of a 4½-inch bulk gas pipeline, 3.58 miles in length, from Tenneco Oil Company's Well No. 1 in Block 67, South Marsh Island Area, across Block 66, South Marsh Island Area, to Tenneco Oil Company's Platform B in Block 61, South Marsh Island Area. By Action dated June 29, 1984, the application was approved and the right-of-way granted. Proof of construction was subsequently accepted on 3.62 miles of pipeline on December 3, 1984.

By Action dated June 20, 1989, Tenneco Oil Company assigned all of its right, title and interest in the subject right-of-way to Chevron U.S.A. Inc, effective October 7, 1988.

On June 18, 1991, Chevron U.S.A. Inc. requested relinquishment of the right-of-way in its entirety. Additionally, grantee requested approval to abandon in place the above described 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 3.62 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, Chevron U.S.A. Inc. shall be required to remove it.

Therefore, the pipeline right-of-way grant is relinquished effective as of June 18, 1991, the date the request for relinquishment was filed in this office.

Notify this office in writing within 30 days after the completion of the pipeline abandonment.

(Orig. Sgd.) J. ROGERS PEARCY

J. Rogers Percy
Regional Director

cc: Case File

MHHOLMES\

DMW
10/1/91
kg

JR 7150



United States Department of the Interior



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

In Reply Refer To: MS 5421
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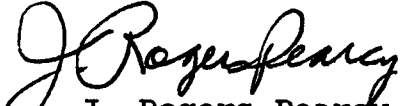
By Action dated June 20, 1989, Tenneco Oil Company assigned all of its right, title and interest in the subject right-of-way to Chevron U.S.A. Inc, effective October 7, 1988.

On June 18, 1991, Chevron U.S.A. Inc. requested relinquishment of the right-of-way in its entirety. Additionally, grantee requested approval to abandon in place the above described 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 3.62 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, Chevron U.S.A. Inc. shall be required to remove it.

Therefore, the pipeline right-of-way grant is relinquished effective as of June 18, 1991, the date the request for relinquishment was filed in this office.

Notify this office in writing within 30 days after the completion of the pipeline abandonment.


J. Rogers Percy
Regional Director

cc: Case File



Chevron U.S.A. Inc.

935 Gravier Street, New Orleans, LA 70112 • Phone (504) 592-6734

B. H. Hunley
Offshore Consultant
Gulf of Mexico Land Division

June 17, 1991



Application to Abandon Pipeline
and Relinquish Right-of-Way
OCS-G 7101

Minerals Management Service
Gulf of Mexico Region
1201 Elmwood Park Blvd.
New Orleans, LA 70123-2394

Attention Regional Supervisor, Field Operations

Gentlemen:

Tenneco Oil Company filed an application, dated May 31, 1984, for a right-of-way for the construction maintenance and operation of a four-inch (4") bulk gas pipeline from Tenneco Oil Company's Well No. 1 in Block 67 across Block 61 South Marsh Island Area to Tenneco Oil Company's Platform "B" in Block 61, South Marsh Island Area. By Minerals Management Service Action dated June 29, 1984, the application was approved and the right-of-way was granted.

According to the as-built survey, the actual length of the installed pipeline is 3.62 miles.

By assignment effective October 7, 1988, and approved June 20, 1989, Tenneco Oil Company assigned all of its interest in OCS-G 7101 and the subject flowline to Chevron U.S.A. Inc.

Pursuant to the terms of Title 30 CFR Section 250.157(c), 250.159(c)(9) and 250.164, Chevron U.S.A. Inc. respectfully requests your approval of this application to relinquish right-of-way OCS-G 7101, and to abandon in place the referenced 4" pipeline.

1. The pipeline is being abandoned as a result of reservoir depletion in South Marsh Island Block 67 OCS-G 4806. OCS-G 4806 Well No. 1 subsea completion will be plugged and abandoned. (Application for approval to abandon submitted in separate filing).
2. The flowline will be purged by pumping sea water through the wing of the tree and back to the platform. Divers will then cut the flowline riser at the mudline and install a stopper plug. A connector plate will be attached to the "flat-pack" control bundle at the tree. The purge of the control bundle will be accomplished using a soap-water solution. After purge is complete, a blanking plate will be attached to the end of the control bundle, and the bundle will then be buried 3' below the natural bottom. Pumping for both the flowline and control bundle will be conducted from the drilling rig. We plan to conduct the operations in late June 1991.

ACCEPTED

J. Roger Peary
Regional Director

Effective Date JUN 18 1991

3. The as-built plats for the subject pipeline are attached.
- 4.& 5. The full 3.62 miles of the pipeline will be abandoned in place.

When the South Marsh Island 61 "B" (Drill) Platform is abandoned, the flowline will be cut some distance (100' \pm) from the structure, a stopper plug installed and the end of the flowline buried 3' below the natural bottom. Similarly, the control bundle will be cut, appropriately plugged and buried. No date has been set for the abandonment of the South Marsh Island 61 "B" (Drill) Platform.

This relinquishment and abandonment application is filed in triplicate in full compliance with the provisions of Title 30 CFR Section 250.150 through Section 150.164. There are no improvements along the right-of-way to be removed as required under Section 250.159(c)(9).

Please refer to your New Orleans Miscellaneous File No. 078 for a copy of the resolution authorizing the undersigned to sign on behalf of Chevron U.S.A. Inc.

Please contact E. B. Mendel-John at 592-6037 if you have any questions.

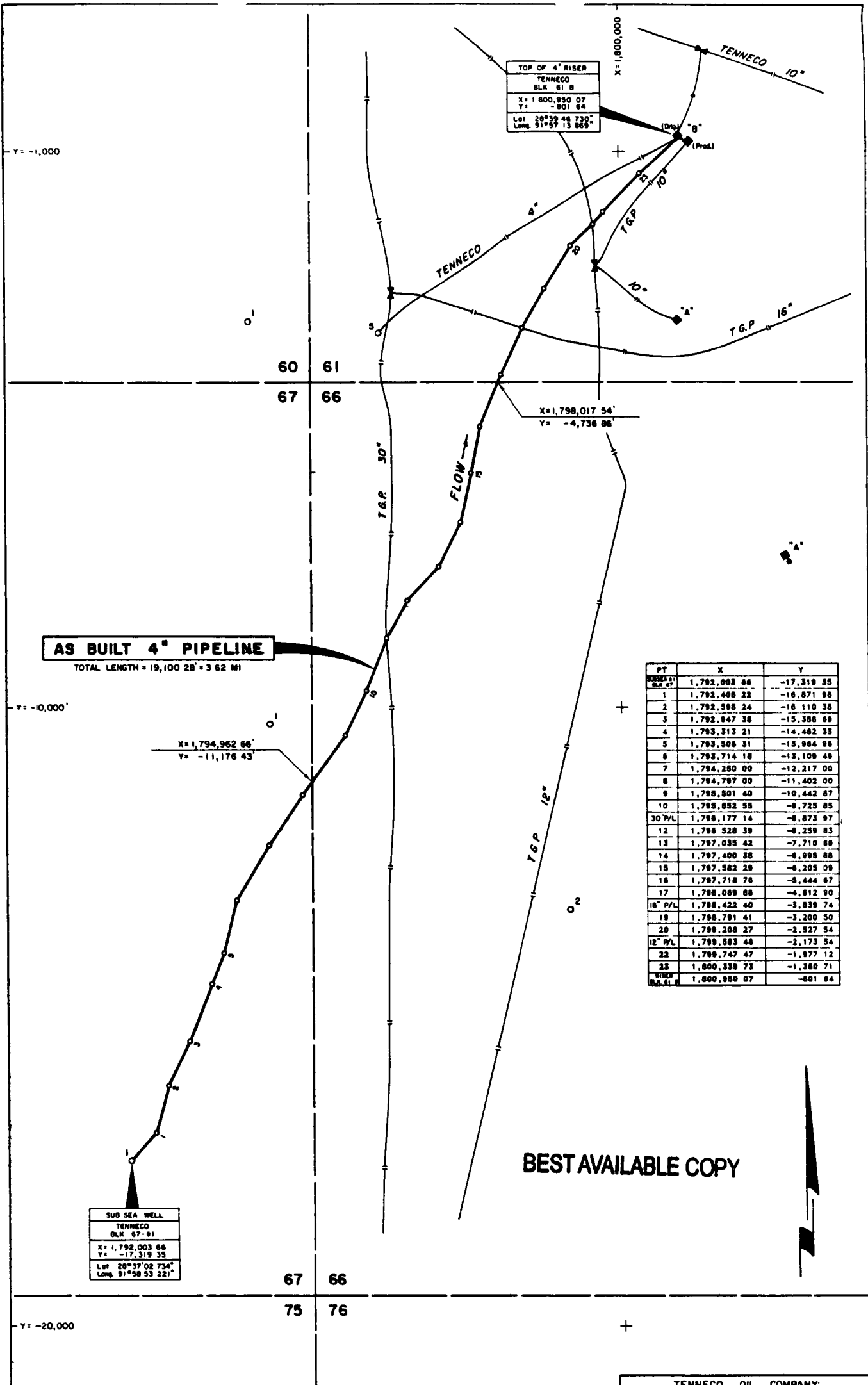
Yours very truly,

CHEVRON U.S.A. INC.

By 
B. H. Hunley

EBM/dac

cc: Mr. G. R. Luquette
Lafayette



TOP OF 4" RISER
 TENNECO
 BLK 61 B
 X = 1,800,950 07
 Y = -601 84
 Lat 28°39'48" 730"
 Long. 91°37'13" 869"

AS BUILT 4" PIPELINE
 TOTAL LENGTH = 19,100 28' = 3 62 MI

PT	X	Y
WELL 21	1,792,003 66	-17,319 35
BLK 67		
1	1,792,408 22	-16,871 98
2	1,792,398 24	-16 110 38
3	1,792,947 38	-15,388 69
4	1,793,313 21	-14,462 33
5	1,793,506 31	-13,984 98
6	1,793,714 18	-13,109 49
7	1,794,250 00	-12,217 00
8	1,794,797 00	-11,402 00
9	1,795,501 40	-10,442 67
10	1,795,852 58	-9,725 85
30" P/L	1,796,177 14	-8,873 97
12	1,796 528 39	-8,259 83
13	1,797,035 42	-7,710 66
14	1,797,400 38	-6,989 68
15	1,797,582 29	-6,205 09
16	1,797,718 76	-5,444 67
17	1,798,089 88	-4,612 90
18" P/L	1,798,422 40	-3,839 74
19	1,798,791 41	-3,200 50
20	1,799,208 27	-2,527 54
12" P/L	1,799,563 48	-2,173 54
22	1,799,747 47	-1,977 12
23	1,800,339 73	-1,360 71
RISER		
BLK 61 B	1,800,950 07	-601 84

SUB SEA WELL
 TENNECO
 BLK 67-01
 X = 1,792,003 66
 Y = -17,319 35
 Lat 28°37'02" 734"
 Long. 91°38'53" 221"

BEST AVAILABLE COPY

CERTIFIED CORRECT AS TO HORIZONTAL
 POSITION OF AS BUILT PIPELINE
James P. Neal, Jr.
 Registered Land Surveyor No. 4310
 State of Louisiana
 John E Chance & Associates, Inc

TENNECO OIL COMPANY
AS BUILT 4" PIPELINE
 BLOCK 67 TO BLOCK 61
 SOUTH MARSH ISLAND AREA
 GULF OF MEXICO
 SCALE: 1" = 1000' 8/1/84

BILLING INDEX

BILLING DATE Bond Fund symbol (Acq. lands only) Serial No. OCS-G 7101
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)
6/29/84	3.58 Mi. 3.62 Mi.	\$15.00	\$60.00	Blocks 67, 66, and 61, South Marsh Island Area
Relinquished JUN 18 1991				

BILLS ISSUED			
Year of lease	Date issued	Year of lease	Date issued
1984	6/29/84 pd.	6th	12/1/88 pd.
2d	12/1/84 pd.	7th	12/1/89 pd.
3d	12/1/85 pd.	8th	
4th	12/1/86 pd.	9th	
5th	12/1/87 pd.	10th	

Name	Address
<i>Principal</i> Tenneco Oil Company Chevron U.S.A. Inc.	Post Office Box 39100 Lafayette, Louisiana 70503
<i>Assignee of undivided interest</i>	935 Gravier Street New Orleans, Louisiana 70112
<i>Operator</i>	



United States Department of the Interior



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

In Reply Refer To: LE-3-1
OCS-G 7101

Instrument:

Filed : March 28, 1989
Executed : March 1, 1989
Approved : June 20, 1989
Effective: October 7, 1988

Tenneco Oil Company
Assignor

Chevron U.S.A. Inc.
Assignee

ACTION: ASSIGNMENT APPROVED

Right-of-Way

The approval of this assignment is restricted to record title interest only, and by virtue of this approval, the Assignee is subject to, and shall fully comply with, all applicable regulations now or to be issued under the Outer Continental Shelf Lands Act, as amended.

Assignor assigned unto Assignee all of Assignor's right, title and interest.

Record title interest is now held as follows:

OCS-G 7101 Blocks 67, 66, and 61, South Marsh Island Area

Chevron U.S.A. Inc. 100%

J. Rogers Pearcy
J. Rogers Pearcy
Regional Director

cc: Assignor
Assignee
✓ Case File

*On map
6/23/89
KX*



Chevron U.S.A. Inc.

935 Gravier Street, New Orleans, LA 70112 • Phone (504) 592-6356

G. R. Cain
General Manager
Land Department

March 27, 1989

Pipeline ROW Assignment
OCS-G 7101
Chevron RW 4506
Offshore Louisiana

RECEIVED

MAR 28 1989

Minerals Management Service
Leasing & Environment

Regional Director
Minerals Management Service
Gulf of Mexico OCS Region
1201 Elmwood Park Blvd.
New Orleans, LA 70123

Gentlemen:

Enclosed please find triplicate originals of an assignment effective June 30, 1972, wherein Tenneco Oil Company conveyed to Chevron U.S.A. Inc. all of its right, title, and interest in and to that certain Pipeline Right-of-Way Grant dated June 29, 1984, referred to as OCS-G 7101.

We request that the Assignment and approval thereof be effective October 7, 1988.

Please find enclosed, from Chevron, a check for Fifty Dollars (\$50.00) covering the cost of filing the Assignment.

The documents qualifying said parties to hold leases on the Outer Continental Shelf in the Gulf of Mexico can be found in your New Orleans Miscellaneous File No. 078 (for Chevron U.S.A. Inc.) and No. 081 (for Tenneco Oil Company).

Please return the approved Assignment to the attention Mr. B. H. Hunley at the above-captioned address. Thank you for your time and efforts in our behalf.

Yours very truly,

CHEVRON U.S.A. INC.

By G. R. Cain
G. R. Cain
Assistant Secretary

RWW/dac

Enclosure

RECEIVED

MAR 28 1989

UNITED STATES OF AMERICA

OFFSHORE LOUISIANA

*Minerals Management Service
Leasing & Environment*

**ASSIGNMENT
(OCS-G 7101)**

THIS AGREEMENT, made and entered into between CHEVRON U.S.A. INC., a Pennsylvania corporation with a place of business at 935 Gravier Street, New Orleans, Louisiana 70112, hereafter called "Chevron", and TENNECO OIL COMPANY, a Delaware corporation with a mailing address of P. O. Box 2511, Houston, Texas 77252-2511, hereafter called "Tenneco",

W I T N E S S E T H:

THAT WHEREAS, by GENERAL CONVEYANCE AND ASSUMPTION AGREEMENT dated June 30, 1988, Tenneco Oil Company assigned certain of its interests and interests in agreements, therein described, to TOC-Gulf of Mexico Inc., a Delaware corporation, and

WHEREAS, by STOCK PURCHASE AGREEMENT, dated as of October 7, 1988, all of the assets of TOC-Gulf of Mexico Inc. were acquired by Chevron U.S.A. Inc., and

WHEREAS, a certain "Right of Way" Grant, intended so to be assigned and conveyed to TOC-Gulf of Mexico Inc. by said GENERAL CONVEYANCE AND ASSUMPTION AGREEMENT and intended thereafter to be included in said acquisition by Chevron U.S.A. Inc., was inadvertently omitted from the list and description of interests therein conveyed;

NOW THEREFORE, for and in the same consideration stated in and given incident to the said GENERAL CONVEYANCE AND ASSUMPTION AGREEMENT and said STOCK PURCHASE AGREEMENT, the sufficiency of which is hereby acknowledged, and subject to all the terms, conditions and provisions thereof, Tenneco, the present owner and holder of the hereinafter identified "Right of Way" Grant, does hereby transfer, set over and deliver all of its right, title and interest in and to the following described "Right of Way" Grant:

That certain Pipeline Right-of-Way Grant dated June 29, 1984, issued by the Department of the Interior, Minerals Management Service, referred to as OCS-G 7101, for the existing four inch (4") pipeline originating at the Subsea Well #1 in Block 67, South Marsh Island Area, and terminating at Platform B in Block 61, South Marsh Island Area, together with all present pipeline equipment and appurtenances located thereon. (Chevron RW 4506)

APPROVED

Acting


Regional Director

Effective Date

OCT 7 1988

TO HAVE AND TO HOLD unto Chevron U.S.A. Inc., its successors and assigns, to the same full extent and just as though said "Right of Way" Grant and said interests therein were originally conveyed and included in said GENERAL CONVEYANCE AND ASSUMPTION AGREEMENT and said STOCK PURCHASE AGREEMENT.

The parties hereto hereby intend and effect no modification whatsoever to the aforesaid GENERAL CONVEYANCE AND ASSUMPTION AGREEMENT and STOCK PURCHASE AGREEMENT.

IN WITNESS WHEREOF, this instrument is executed with contemporaneous effect with said GENERAL CONVEYANCE AND ASSUMPTION AGREEMENT and said STOCK PURCHASE AGREEMENT.

WITNESSES:

Deborah R. Shelton
Deborah A. Cochran

CHEVRON U.S.A. INC.

By: G. Kohn
Assistant Secretary

WITNESSES:

Wendell J. Bares
Patsy Dupon

TENNECO OIL COMPANY

By: Addison A. Wilkinson
Title: Vice President

STATE OF LOUISIANA

PARISH OF ORLEANS

On this 22 day of Feb, 1989, before me appeared R. K. SIMS, to me personally known, who, being by me duly sworn, did say that he is the Assistant Secretary of CHEVRON U.S.A. INC., a Pennsylvania corporation, and that the seal affixed to said instrument is the corporate seal of said corporation, and that said instrument was signed and sealed on behalf of said corporation by authority of its Board of Directors, and said appearer acknowledged that he executed the same as the free act and deed of said corporation.

IN WITNESS WHEREOF, I have hereunto set my official hand and seal on the date hereinabove written.

[Signature]
Notary Public in and for
Orleans Parish, Louisiana

My commission expires at death.

CHEVRON U.S.A. INC., Assignee herein, expressly assumes and agrees to discharge its proportionate part of all duties and obligations arising out of or imposed by and under each and all of the terms and provisions of said right of way.

CHEVRON U.S.A. INC.

By 

Assistant Secretary

**UNITED STATES
DEPARTMENT OF THE INTERIOR
MINERALS MANAGEMENT SERVICE**

March 29, 1989

DATE

OCS-G 7101, P/L Assignment

PARENT SERIAL NUMBER

Blocks 67 and 61, South Marsh Island Area

SUBJECT

APPLICANT:

REMITTER IF DIFFERENT THAN APPLICANT:

[
Chevron U.S.A. Inc.
935 Gravier Street
New Orleans, LA 70112
]

PURPOSE	FUND SYMBOL	AMOUNT	
FILING FEE EARNED	140850 (17)	\$50	00
ADVANCE FILING FEE AND/OR RENTAL	14X6800 (17)		
ONE-FIFTH BONUS	14X6875 (17)		
FIRST YEAR'S RENTAL			
FOUR-FIFTHS BONUS			
TOTAL		\$50	00

Check No. 033122, dated 3/27/89, Whitney National Bank of New Orleans, New Orleans, LA

BEST AVAILABLE COPY

REMARKS _____

BY _____ DATE _____

DO NOT ACCEPT THIS COPY AS A RECEIPT

CASE FOLDER COPY

BEST AVAILABLE COPY

Williams
11-29-84
Kelly 11/29/84
Stauffer 11/30/84
Blair 11/30/84
Pearcy 12-3

In Reply Refer To: RP-2-2
OCS-G 7101

DEC 3 1984

ACTION

Tenneco Oil Company : Pipe Line Right-of-Way
: :
: : Date of Permit: 6/29/84
: :
: : Decision Requesting Proof of
: : Construction Dated:
: :
: : Proof of Construction
: : Received: 7/22/84

Proof of Construction Accepted

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

Because grantee has deviated from the approved right-of-way by \pm 300 feet in Block 66, South Marsh Island Area, Tenneco Oil Company must notify Aminoil USA, Inc., operator of Lease OCS-G 1198, to that effect. A return-receipt-card or letter from Aminoil USA, Inc. evidencing proof of notice must be submitted to this office within 60 days of receipt hereof.

The total length of the "as-built" pipeline right-of-way is 3.62 miles.

(Orig. Sgd.) John L. Rankin

John L. Rankin
Regional Director

CERTIFIED MAIL NO. P214379108

bcc: P/L OCS-G 7101 (LE)
P/L OCS-G 7101 (w/attachments) (RP-2-2)
ORD Reading File
OPS-4 (w/copy of location plat)

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

BEST AVAILABLE COPY

DEC 3 1984

In Reply Refer To: RP-2-2
OCS-G 7101

ACTION

Tenneco Oil Company	:	Pipe Line Right-of-Way
	:	
	:	Date of Permit: 6/29/84
	:	
	:	Decision Requesting Proof of
	:	Construction Dated:
	:	
	:	Proof of Construction
	:	Received: 7/22/84

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The total length of the "as-built" pipeline right-of-way is 3.62 miles.

(Orig. Sgd.) John L. Rankin

John L. Rankin
Regional Director

CERTIFIED MAIL NO. P214379108

bcc: P/L OCS-G 7101 (LE)
P/L OCS-G 7101 (w/attachments) (RP-2-2)
ORD Reading File
OPS-4 (w/copy of location plat)

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

*on map
12/28/84
K7*

Tenneco Oil Exploration and Production

A Tenneco Company

Central Gulf Division

P.O. Box 39100
Lafayette, Louisiana 70503
(318) 981-7000

August 17, 1984



U. S. Department of the Interior
Minerals Management Service
P. O. Box 7944
Metairie, Louisiana 70010

Attention: Mr. Autry Britton: L-3-1

Re: South Marsh Island Block 67
4" Pipeline Installation
OCS-G-7101

Gentlemen:


Attached, as per your request, are the following drawings and charts for the above referenced project:

1. "As Built 4" Pipeline" Drawing - (1 copy)
2. Temperature Chart - (3 copies)
3. Hydrostatic Test Pressure Chart - (1 copy)
4. Deadweight Test and Temperature Data Chart - (3 copies)

If additional information is needed, please contact me at (318) 269-7612.

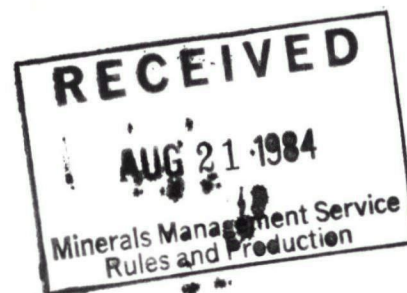
Yours very truly,

TENNECO OIL COMPANY
Central Gulf Division

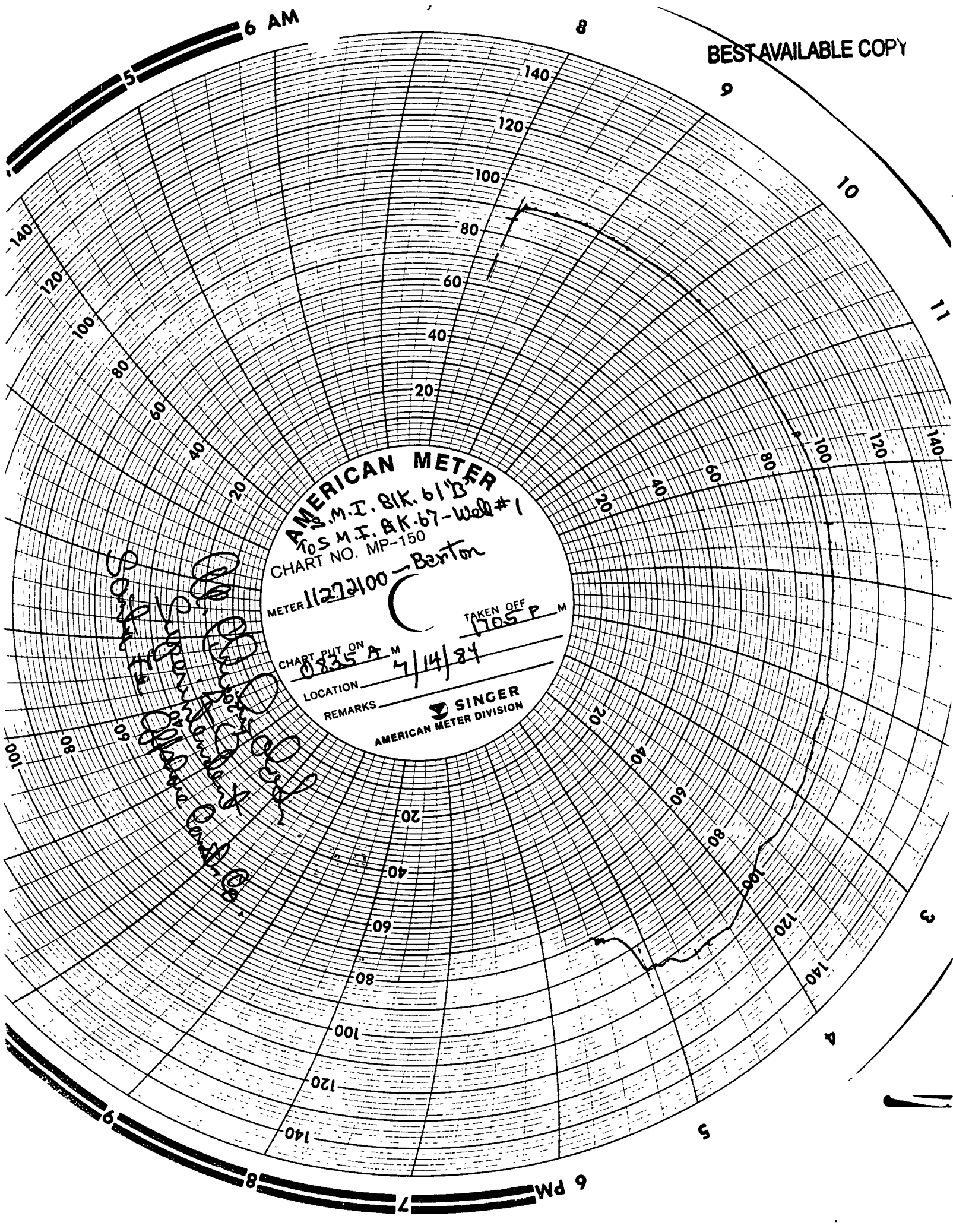

Keith Dupuis
Production Analyst

KD/par

Attachments



BEST AVAILABLE COPY



AMERICAN METER
 105 M.F. BK. 61 "B" R
 105 M.F. BK. 67 - Well # 1
 CHART NO. MP-150
 METER 11272100 - Benton
 CHART PUT ON 0835 A M
 TAKEN OFF 1105 P M
 LOCATION 7/14/84
 REMARKS
SINGER
 AMERICAN METER DIVISION

Handwritten notes:
 105 M.F. BK. 61 "B" R
 105 M.F. BK. 67 - Well # 1
 CHART NO. MP-150
 METER 11272100 - Benton
 CHART PUT ON 0835 A M
 TAKEN OFF 1105 P M
 LOCATION 7/14/84
 REMARKS

6 AM

8

9

10

11

3

4

5

6 PM

7

8

9

SANTA FE ENGINEERING & CONSTRUCTION COMPANY

RECEIVED
 AUG 21 1984
 Minerals Management Service
 Rules and Production

Deadweight Test and Temperature Data

Project: Tenneco S.M.I 6 "B" To

Extent of Test: From 0835 To 1705

Pipe Specifications: 4 1/2" O.D. x Sch. 160 W.T.; Grade "B"

Length of Line Tested 19, 129.60 ft.

No.	Time	Pressure	HEAD WT. PLUG	Temperature Ambient	
1.					
2.	<u>0850</u>	<u>5400</u>	<u>5400</u>	<u>93°</u>	TEST ON LINE
3.	<u>0900</u>	<u>5400</u>	<u>5400</u>	<u>92°</u>	
4.	<u>0915</u>	<u>5400</u>	<u>5400</u>	<u>92°</u>	
5.	<u>0930</u>	<u>5398</u>	<u>5400</u>	<u>92°</u>	
6.	<u>0945</u>	<u>5398</u>	<u>5400</u>	<u>93°</u>	
7.	<u>1000</u>	<u>5398</u>	<u>5400</u>	<u>93°</u>	
8.	<u>1030</u>	<u>5395</u>	<u>5400</u>	<u>92°</u>	
9.	<u>1100</u>	<u>5395</u>	<u>5400</u>	<u>92°</u>	
10.	<u>1130</u>	<u>5395</u>	<u>5400</u>	<u>92°</u>	
11.	<u>1200</u>	<u>5395</u>	<u>5400</u>	<u>94°</u>	
12.	<u>1230</u>	<u>5395</u>	<u>5400</u>	<u>94°</u>	
13.	<u>1300</u>	<u>5395</u>	<u>5400</u>	<u>93.8°</u>	
14.	<u>1330</u>	<u>5395</u>	<u>5400</u>	<u>93°</u>	
15.	<u>1400</u>	<u>5395</u>	<u>5400</u>	<u>94°</u>	
16.	<u>1430</u>	<u>5395</u>	<u>5400</u>	<u>94°</u>	
17.	<u>1500</u>	<u>5395</u>	<u>5400</u>	<u>96°</u>	
18.	<u>1530</u>	<u>5395</u>	<u>5400</u>	<u>95°</u>	
19.	<u>1600</u>	<u>5395</u>	<u>5400</u>	<u>102°</u>	
20.	<u>1630</u>	<u>5395</u>	<u>5400</u>	<u>104°</u>	
21.	<u>1700</u>	<u>5395</u>	<u>5400</u>	<u>98°</u>	
22.	<u>1705</u>	<u>Started taking test off line</u>			
23.					
24.					
25.					

Test Started: Time 0835 Date 7-14-84

Test Completed: Time 1705 Date 7-14-84

Testing Equipment:

Deadweight Tester: Make CHANDLER Serial No. 13014

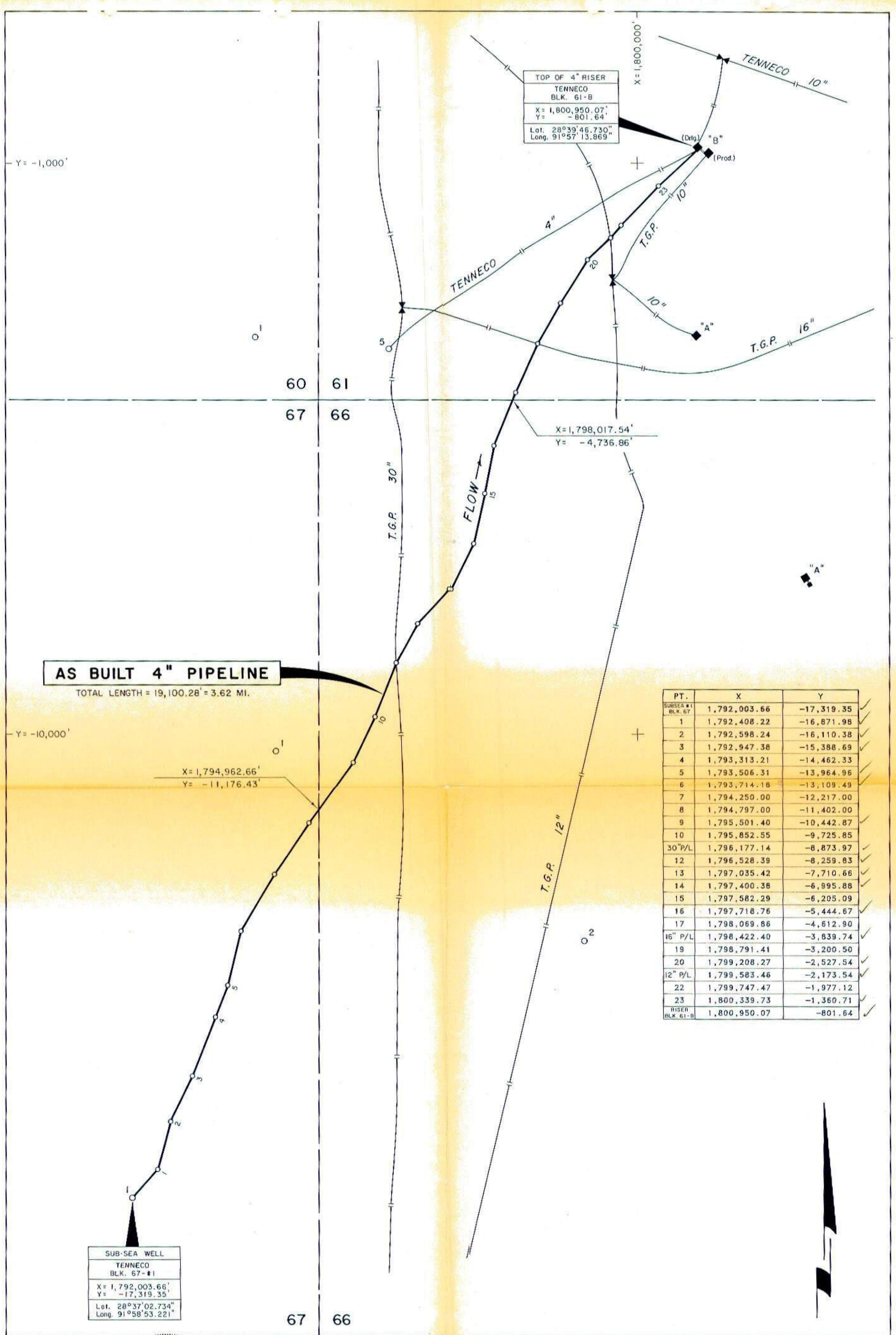
Pressure Recorder: Make BARTON Serial No. 242A-10125

Temperature Recorder: Make BARTON Serial No. 11272100

Recorded By: Dennis Watkins & Will Boudloche

Inspector: Ed Mialant

Witnesses: Ed Mialant, Supt.
Jose E. Barr, Chief Eng.



TOP OF 4" RISER
 TENNECO
 BLK. 61-B
 X = 1,800,950.07'
 Y = -801.64'
 Lat. 28°39'46.730"
 Long. 91°57'13.869"

SUB-SEA WELL
 TENNECO
 BLK. 67-#1
 X = 1,792,003.66'
 Y = -17,319.35'
 Lat. 28°37'02.734"
 Long. 91°58'53.221"

PT.	X	Y
SURSEA #1 BLK. 67	1,792,003.66	-17,319.35
1	1,792,408.22	-16,871.98
2	1,792,598.24	-16,110.38
3	1,792,947.38	-15,388.69
4	1,793,313.21	-14,462.33
5	1,793,506.31	-13,964.96
6	1,793,714.18	-13,109.49
7	1,794,250.00	-12,217.00
8	1,794,797.00	-11,402.00
9	1,795,501.40	-10,442.87
10	1,795,852.55	-9,725.85
30" P/L	1,796,177.14	-8,873.97
12	1,796,528.39	-8,259.83
13	1,797,035.42	-7,710.66
14	1,797,400.38	-6,995.88
15	1,797,582.29	-6,205.09
16	1,797,718.76	-5,444.67
17	1,798,069.86	-4,612.90
16" P/L	1,798,422.40	-3,839.74
19	1,798,791.41	-3,200.50
20	1,799,208.27	-2,527.54
12" P/L	1,799,583.46	-2,173.54
22	1,799,747.47	-1,977.12
23	1,800,339.73	-1,360.71
RISER BLK. 61-B	1,800,950.07	-801.64

AS BUILT 4" PIPELINE
 TOTAL LENGTH = 19,100.28' = 3.62 MI.



CERTIFIED CORRECT AS TO HORIZONTAL POSITION OF AS BUILT PIPELINE.

James P. O'Neal, Jr.
 Registered Land Surveyor No. 4310
 State of Louisiana
 John E. Chance & Associates, Inc.

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Sn. # 7150 (G-7101)

TENNECO OIL COMPANY

AS BUILT 4" PIPELINE

BLOCK 67 TO BLOCK 61
 SOUTH MARSH ISLAND AREA
 GULF OF MEXICO

SCALE: 1" = 1000' 8/1/84

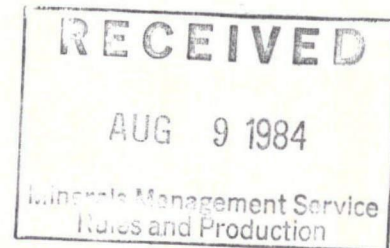
**Tenneco Oil
Exploration and Production**

A Tenneco Company

Central Gulf Division

P.O. Box 39100
Lafayette, Louisiana 70503
(318) 981-7000

August 8, 1984



U.S. Department of the Interior
Minerals Management Service
P. O. Box 7944
Metairie, LA 70010

Attention: Mr. Autry Britton: L-3-1

Re: South Marsh Island Block 67
4" Pipeline Installation
OCS-G-7101

Gentlemen:

With regard to the above referenced pipeline project, the following data is for your information:

1. Work on the pipeline began on June 30, 1984 and was completed on July 22, 1984.
2. A pig was run from the subsea wellhead end of the pipeline to the South Marsh Island 61 "B" Drilling Platform with seawater, and the line was filled for the hydrostatic test.
3. A 5400 psi hydrostatic test was placed on the pipeline for 8 hours (see attached test charts).
4. The pipeline was then brought into service after the hydrostatic test.

Also included are two (2) copies of the "as built" drawings of the pipeline.

If additional information is needed, please contact me at (318) 269-7612.

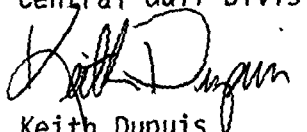
Tenneco Oil Exploration and Production

August 8, 1984

South Marsh Island Block 67
OCS-G-7101
Page Two

Yours very truly,

TENNECO OIL COMPANY
Central Gulf Division



Keith Dupuis
Production Analyst

KD/par

Attachments

cc: Tex Summerlin-Tenneco Oil Company

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SN 7150

JUN 29 1984

Butter 6/28/84

Kelly 6/28/84

Stauffer 6/28/84

Rena 6/28/84

Reay 6-28

In Reply Refer To: RP-2-2
OCS-G 7101

South Marsh Island Area

Tenneco Oil Company

Right-of-Way

ACTION: APPLICATION APPROVED

Your application for a right-of-way 200 feet in width for the construction, maintenance, and operation of a 4 1/2-inch bulk gas pipeline, 3.58 miles in length, from Tenneco Oil Company's Well No. 1 in Block 67, South Marsh Island Area, across Block 66, South Marsh Island Area, to Tenneco Oil Company's Platform B in Block 61, South Marsh Island Area, dated May 31, 1984, with its attachments, is hereby approved subject to the following:

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

<u>Name</u>	<u>Diameter (inches)</u>	<u>Block</u>
Tenneco Inc.	12	61
Tenneco Inc. (2)	10	61
Tenneco Inc.	16	61
Tenneco Inc.	30	66

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

<u>Line No.</u>	<u>Shot Point No.</u>	<u>Intensity (gammas)</u>
1*	8.4	12
6	31.3	19
9	33.4	14
10*	41.2	16

*Avoidance of these locations by 125 meters is required unless prior investigation confirms such avoidance is unnecessary.

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2

3. This installation does not meet the requirements of OCS Order No. 9.1.A.(1) for high-low pressure sensors leaving the platform; however, since the control system is installed at a receiving platform a departure is hereby granted.

(Orig. Sgd.) John L. Rankin

John L. Rankin
Regional Manager

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

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

bcc: / P/L OCS-G 7101 (LE)
P/L OCS-G 7101 (RP-2-2)
RM Reading File
LE-5 L. Dauterive

ABritton:lv:6/28/84:Disk 6

BEST AVAILABLE COPY

Date: June 27, 1984

To: Right-of-Way Pipeline File OCS-G 7101 (LE)
Through: Supervisor, Platform/Pipeline Unit, Plans, Platform and Pipeline Section, Rules and Production, Gulf of Mexico OCS Region (RP-2-2) *RFL*
From: Petroleum Engineer, Platform/Pipeline Unit, Plans, Platform and Pipeline Section, Rules and Production, Gulf of Mexico OCS Region (RP-2-2)
Subject: Pipeline Right-of-Way Application, Technical Review, VENNECO
OIL EVACUATION AND PRODUCTION OCS-G 7101

Size (inches)	Length (feet)	Service	From	To
<u>4 1/2</u>	<u>18,900</u>	<u>BULK GAS</u>	<u>WELL No 1.</u>	<u>PLATFORM B</u>
			<u>SOUTH MARSH IS</u>	<u>SOUTH MARSH IS.</u>
			<u>BLOCK 67</u>	<u>BLOCK 61</u>

Recommendations:

- 1. The technical aspects of the proposed pipeline are acceptable in accordance with appropriate Regulations and Standards.
- 2. Advise applicant of Notice to Lessees and Operators No. 83-3.
- 3. Valve protection cover shall not protrude above the level of the mud line.
- 4. Subsea valves and taps associated with this pipeline shall be provided with a minimum of three feet of cover, either through burial or with sandbags.
- 5. THIS INSTALLATION DOES NOT meet the requirements of OCS Order No. 9 I.A. (1) regarding high-low pressure sensors (aving the platform. However since the control system is installed at the receiving platform a departure can be granted.
R. Lanza
R. Lanza

cc: 1502-01 OCS-G 7101 (w/orig appln) (Seg. 7150) (RP-2-2)
OPS-4 (w/cy of plat)

RLanza:lv:Disk 3

*on my
RFL
8/2/84*

UNITED STATES GOVERNMENT
MEMORANDUM

June 21, 1984

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

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

Subject: Categorical Exclusion Review (CER) Review for Pipeline Right-of-Way
Application OCS-G P-7101

Tenneco Oil Company
Pipeline Right-of-Way Application
South Marsh Island Blocks 67, 66, and 61

Right-of-Way two hundred feet (200') wide to construct a 4-inch gas pipeline
from Tenneco's No. 1 well in Block 67 to Tenneco's B platform in Block 61; a
distance of 18,899.87 feet (3.58 miles).

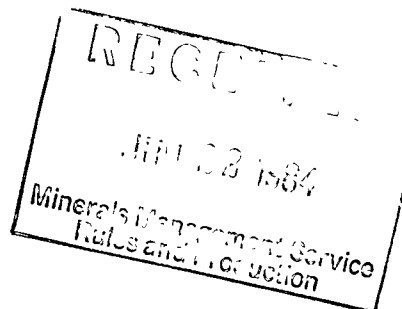
Our CER review of the subject action is complete. The following environmental
protective measures intended to avoid or mitigate potential impacts associated
with the action are provided for inclusion in the plan/application approval
letter:

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

<u>Name</u>	<u>Diameter (inches)</u>	<u>Block(s)</u>
T.G.P.	12	61
(2) T.G.P.	10	61
T.G.P.	16	61
T.G.P.	30	66

The following locations of unidentified magnetic anomalies shall be buoyed
before construction and avoided when installing lay barge anchors:

	<u>Line No.</u>	<u>Shot Point</u>	<u>Amplitude (gammas)</u>
*	1	8.4	12
	6	31.3	19
	9	33.4	14
*	10	41.2	16



MINERALS MANAGEMENT SERVICE

JUN 22 1984

RULES AND PRODUCTION

*Avoidance of these locations by 125 meters is recommended unless prior investigation shows the proximate source of side-scan contact (possible debris) approximately 60 meters east of Shot Point 41.0 on Line No. 10 will not interfere with construction.

Les Dauterive
Les Dauterive

ODeWald:mhc

PIPELINE APPLICATION CHECK LIST

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

A. Verify the following general information:

I. SOP

- a. Do the leases involved on the pipeline 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)?

III. USGS Application

A. The pipelines are wholly contained within the boundaries of:

1. A single lease.
 2. Unitized leases.
 3. Contiguous (not cornering) leases of the same owner or operator

IV. BLM Application

- a. Pipelines not covered by III above.

V. DOT Pipelines

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

VI. DOI Pipelines

- a. Pipelines not covered by V above.

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

- DEPARTURE REQUIRED FOR SUBSEA Completion*
- I. The pipeline leaving the platform receiving production from the platform is equipped with high- and low-pressure sensors to directly or indirectly shut-in the well or wells on the platform.
- II. The pipeline delivering production to production facilities on the platform is equipped with automatic fail close valve tied into the automatic and remote shut-in system.
- III. The pipeline crossing the production platform which does not deliver production to the platform, but which may or may not receive production from the platform, is equipped with high- and low-pressure sensors connected to an automatic fail close valve located in the upstream portion of the pipeline at the platform. In addition, the sensors are tied into either the platform's automatic and remote shut-in system or an independent remote shut-in system.
- IV. The pipeline boarding the platform is equipped with a check valve.
- V. The pipeline leaving the platform is equipped with a check valve.
- VI. The pipeline pump is shown as well as its associated high- and low-pressure shut-in device.
- VII. Check valves are located such that the low-pressure shut-in devices in I, II, III, and VI are not isolated.
- VIII. If pipeline pilots are located on any pressure vessel or downstream of a departing check valve, all flow restriction(s), [backpressure valve(s), choke(s)], downstream of the process vessel, or wellhead, and upstream of check valve(s) must be indicated on the schematic.
- If flow restriction(s) exist downstream of any process vessel a low-pressure sensor must be installed between the flow restriction(s) and the departing check valve(s). High-pressure sensor(s) must be installed downstream of the wellhead choke.
- IX. If safety equipment associated with the pipeline is located on a pig trap, so that it would be bypassed during pigging operations, add statement in approval letter referring to letter to lessees and operators, dated February 25, 1980, (Procedures for Temporary Removal of Pipeline-Related Safety Equipment)
- X. Pressure source is drawn into the schematic with the following:
- a. Source WELL.
- b. Maximum source pressure, psig 2750.
- XI. The rated working pressures of all separators, pumps, compressors, valves, flanges, and fittings upstream of and including the boarding automatic fail close valve are shown. ANSI 1500.

C. Verify that the location plat depicts the following:

- I. Location of pipeline
- II. Length of pipeline
- III. Size of pipeline
- IV. Type of service
- V. Direction of flow
- VI. X-Y coordinates of key points

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

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

- a. Size of pipeline, inches 4 1/2
- b. Weight of pipeline, lbs./ft. 22.52
- c. Grade of pipeline B
- d. Wall thickness, inches .531
- e. Size of riser, inches _____
- f. Weight of riser, lbs./ft. Same
- g. Grade of riser B *As D/K.*
- h. Wall thickness of riser, inches _____
- i. Minimum WP rating of piping, fittings, valves, psig 3600
- j. Hydrostatic test pressure (HTP), psig

LINE	RISER
5400	4380
8	8
- k. Hold time, hrs. 8
- l. Classification of pipeline (oil or gas) BULK GAS

E. Verify that the information was 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 rectifier)
- b. If pipeline anodes are used:
1. Type of anode GALVAN
 2. Spacing interval, ft. 719
 3. Weight of unit anode, lbs. 39

II. Calculate Life Expectancy of Corrosion Protection

- a. If platform anodes are used, annual pipe-to-electrolyte potential measurements are required.
- b. If pipeline anodes are used:
- $LE_{p/l} = 3.82 \times 10^4 \times W^0 / DIR? = \underline{484 \text{ yrs.}}$
- W^0 = 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 $LE_{p/l}$ \geq 20 years.

If not, one of the following is necessary:

1. The company agrees to increase their cathodic protection to meet the 20-year requirement.
2. Annual pipe-to-electrolyte potential measurements will be required.

II. DOI Pipelines

- a. IP @ SMYS for submerged pipeline = $\frac{2st}{D}$ = 8260
 - b. (.72 x IP @ SMYS) for submerged pipeline = 5947 (MAOP_{sc})
 - c. IP @ SMYS for riser = $\frac{2st}{D}$ = 8260
 - d. (.60 x IP @ SMYS) for riser = 4956 (MAOP_{rc})
 - e. See DIi above (MAOP_{pfv}) = 3600 (MAOP_{pfv})
 - f. Is 1.25 MSP \leq HTP \leq .95 (IP @ SMYS for smaller IP of a and c above)
5400 \leq 7847
 - g. HTP/1.25 = 4320
 - h. Is HTP hold time \geq 8 hours
 - i. MAOP of receiving pipeline from IV N/A
 - j. MAOP_{p/1} = the smallest of b, d, e, g, and i above
3600 (MAOP_{p/1})
 - k. Test pressure ANSI & API carbon steel RTJ & RF Flanges and Valves
5400 (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
3600 \geq 2750

If not, one of the following is necessary:

- 1. Redundant safety equipment is afforded.
- 2. A departure from the requirement for redundant safety equipment
- n. Type of redundant protection
 - 1. Additional SDV actuated by an independent PSH.
 - 2. PSV that vents into a flare scrubber or another approved location (must be approved by District).

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

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

a. Description of pipelines protective coating SCOTCH KOTE 212.

b. Description of risers protective coating TIDE GUARD 125

c. Description of pre-concrete coating _____

d. Gravity or density of products:

For gas 0.6 (air = 1.0)

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

II. Specific information pertaining $SG_{p/1}$

a. Given $SG_{p/1}$ _____

b. Weight of bare pipe (W) _____ lb/ft

c. Weight of pre-concrete coating (P) _____

d. K_3 (coefficients from table) _____

e. Density of concrete (d_c) _____

f. Thickness of concrete (T) _____

g. K_1 (coefficient from table) _____

h. K_2 (coefficient from table) _____

III. Specific gravity for weighted pipelines:

a. $SG_{p/1} = \frac{d_c}{d} + \left[\frac{K_2}{(T-K_1)^2} \left(\frac{W+P}{K_3} - \frac{d_c}{d} \right) \right] =$ _____

IV. Specific gravity for epoxy-coated pipelines:

a. $SG_{p/1} = 2.865 w/d^2 =$ 3.18
 (w = weight of pipe, d = diameter, inches)

V. Is calculated S.G. \approx operator's given SG

3.18 \approx 3.27

NOTE: 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.

6. Pipeline crossing and subsea taps and valves

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I. If pipeline crosses an existing pipeline, the following conditions must be met:

- 1. 18-inch minimum clearance between pipelines.
- 2. If pipeline is buried is there 3-feet of cover provided for the proposed pipeline?

3. Slope of sandbags

- a. Diameter of both pipelines is \leq 8 5/8-inch - 2:1 slope
- b. Diameter of either pipeline is $>$ 8 5/8-inch - 3:1 slope
- c. At pipe crossings if both pipelines are unburied (regardless of size) - 3:1 slope

II. If pipeline ties into an existing pipeline or is equipped with future subsea taps, the following conditions must be met:

- 1. Minimum 3-feet of cover is provided at subsea tie-in and future tie-in point(s).
- 2. If a birdcage is utilized it must be provided with a minimum of 3-feet of cover.

H. Verify the following general information:

- I. Water depth, ft. 130 (Max) _____ (Min)
- II. Burial depth, ft. 3
- III. Anticipated Operating Pressure (MOP) _____
- IV. Capacity _____

I. Verification of Information Per Telephone Conversation. Give Name of Person, Date, and Information:

Tenneco Oil Exploration and Production

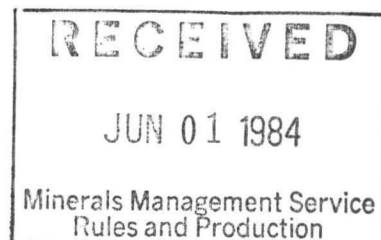
A Tenneco Company

Central Gulf Division

P.O. Box 39100
Lafayette, Louisiana 70503
(318) 981-7000

May 31, 1984

Minerals Management Service
Attn: Mr. John L. Rankin
Imperial Office Building
3301 N. Causeway Blvd.
P.O. Box 7944
Metairie, Louisiana 70010



Re: Application for Right-of-Way for Proposed
4" Pipeline from South Marsh Island 67 to
South Marsh Island 61, Offshore, Louisiana

Dear Mr. Rankin:

Pursuant to the authority granted in Section 5(e) of the Outer Continental Shelf Lands Act, (67 Stat. 462), (43 U.S.C. 1331), as amended (92 Stat. 629), and in compliance with the regulations contained in Title 30 Part 256 CFR Subpart N, Tenneco Oil Company hereby applies, in triplicate, for a right-of-way two hundred feet (200 ft.) in width, to construct, maintain, and operate a four-inch gas pipeline as shown on the following listed maps and drawings attached hereto and made a part thereof:

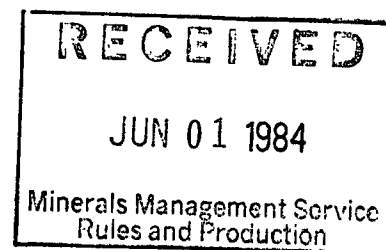
1. Plan and Profile Map, by John Chance & Associates (4/12/84)
2. Vicinity Map, by John Chance & Associates (4/12/84)
3. Engineering and Hazard Study Map, by John Chance & Associates (May 1984) (Included in Engineering & Hazard Study)
4. Typical Sandbagging of Foreign Pipeline Crossing Plat (Tenneco Oil Company)
5. Subsea Well Control Completion Drawing (Tenneco Oil Company)
6. Proposed 4" Flowline Drawing (Tenneco Oil Company)
7. Subsea Well Protector Drawing (Tenneco Oil Company)

This four-inch pipeline will be used to transport gas from Tenneco's #1 Subsea Well in South Marsh Block 67 to Tenneco's "B" Platform in South Marsh Island Block 61.

This application (and any amendments made hereto) is made with our full knowledge and concurrence with the OCS Lands Act (43 U.S.C. 1331, et seq.), as amended, (P.L. 95-372), including the following: Sec. 5(3) addressing pipeline right-of-way, Requirements of the Federal Energy Regulatory Commission notice of hearing, transportation, and purchase of oil and gas without discrimination; Sec. 5(f)(1)

**Tenneco Oil
Exploration and Production**

May 31, 1984



Mr. John L. Rankin
Application for Right-of-Way
Page Two

addressing operation of pipelines in accordance with competitive principles, including open and nondiscriminatory access to both owner and non-owner shippers; Sec. 5(f)(2) which may allow exemption of the requirements in Sec. 5(f)(1); Sec. 21(b) addressing the assuring of maximum environmental protection, including the safest practices for pipeline burial; and Sec. 5(f)(1)(b) which may require expansion of throughput capacity of any pipeline except for the Gulf of Mexico or the Santa Barbara Channel.

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

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

Applicant agrees to be bound by the foregoing regulations, and further agrees to comply with the applicable stipulations as set forth in the OCS Pipeline Procedures Guidebook dated March 1981, as amended.

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

Tenneco Oil Exploration and Production

May 31, 1984

Mr. John L. Rankin
Application for Right-of-Way
Page Three

cross any state submerged lands, the applicant agrees to submit to the authorized officer evidence that the state or states so affected have reviewed the application, and shall submit any comments received.

Additional design criteria is as follows:

1. Company contact on technical points or other information is Mr. Tex Summerlin, (318) 269-7501.
2. The line pipe will be:
 - a) Mainline - 4½" O.D. X 22.52 #/ft. X 0.531" W.T., SCH. 160, Gr. SA - 106
 - b) Pipeline Riser & 500' out - 4½" O.D. X 22.52 #/ft. X 0.531 W.T., SCH. 160, Gr. SA - 106
3. Sacrificial anodes are used to cathodically protect the pipeline. The design and description of the anodes are as follows:

a) Description

Type: Galvalum III
Size: Manufacturers drawing not available at this time
Weight: 39 lbs.
Spacing: Twenty-six (26) anode - bracelets will be installed on approximately 719 feet centers.

b) Design

The total weight of Galvalum III anodes and the number of anodes for the pipelines has been determined using the equation:

$$W = \frac{A h c y}{e u}$$

Where W = Total weight of Galvalum III anodes, lb.
A = Total external surface area of the pipeline, ft²

Tenneco Oil Exploration and Production

May 31, 1984

Mr. John L. Rankin
Application for Right-of-Way
Page Four

- h = % of the external pipe surface exposed by coating holidays or damage (2%)
- c = Current density required for cathodic protection; 0.005A per ft²
- y = Number of years of protection to be furnished by initial anode installation, 40 years
- e = Galvalum III anode capacity
 - = 0.107 ampere years/lb.; in mud
 - = 0.131 ampere years/lb.; in seawater
- u = Utilization factor of anode; conservative design estimate of 0.7

Using those design parameters above, equation #1 reduces to:

$$W = 0.006 \frac{A}{e}$$

$$A = \frac{\pi}{12"} \times 4.50 \times 18,900 \text{ ft.} = 22,302 \text{ ft}^2$$

$$W = 0.006 \times \frac{22,302}{0.131} = 1,021 \text{ lbs. Galvium III required}$$

$$N = \frac{1,021}{39\#} = 26 \text{ Anode - Bracelets}$$

4. The water depth along the proposed route is approximately 135 feet maximum and 124 feet minimum.
5. External pipeline coating:
 - Line Pipe: Scotchkote 212, 14 mil average
 - Riser Pipe: a) Tideguard 125 mil average
 - b) Above splash zone - Inorganic zinc primer, tie-coat and vinyl topcoat paint system.

Tenneco Oil Exploration and Production

May 31, 1984

Mr. John L. Rankin
Application for Right-of-Way
Page Five

6. No pipeline internal coating will be applied. Corrosion inhibitor will be injected, as deemed necessary.
7. Specific gravity of the empty coated pipe is 3.27, based on sea water at 64.0 lbs./cu.ft.
8. The expected gravity of gas transported is 0.60, based on air at 1.0.
9. The design capacity of the pipeline is 43 MMCFGD, based on the maximum expected working pressure of 3979 psig.
10. The 4 - inch pipeline will be hydrostatically tested to 5400 psig (+0, -15 psig) for a minimum duration of 8 hours. The riser section will be pretested to 4380 psig (+0, -50 psig) for a minimum duration of 8 hours.
11. Maximum allowable pressure based on valves and flanges is 3600 psig.
12. Maximum allowable operating pressure based on line pipe is 5947 psig.

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

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

$$t = 0.531 \text{ in.}$$

$$D = 4.5 \text{ in.}$$

$$F = 0.72 \text{ for Class I location}$$

$$E = 1.0 \text{ for seamless pipe}$$

$$T = 1.0 \text{ for } 250^{\circ} \text{ or less}$$

$$P = \frac{2 \times 35,000 \times .531}{4.5} \times 0.72 \times 1.0 \times 1.0$$

$$P = 5947 \text{ psig}$$

Tenneco Oil Exploration and Production

May 31, 1984

Mr. John L. Rankin
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13. Maximum allowable operating pressure based on riser pipe is 5947 psig.

$$P = \frac{2 St}{D} \times F \times E \times T \quad (\text{Same as \#12})$$

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

$$t = 0.531 \text{ in.}$$

$$D = 4.5 \text{ in.}$$

$$F = 0.72 \text{ for Class III location}$$

$$E = 1.0 \text{ for seamless pipe}$$

$$T = 1.0 \text{ for } 350^{\circ} \text{ or less}$$

$$P = \frac{2 \times 35,000 \times 0.531}{4.5} \times 0.60 \times 1.0 \times 1.0$$

$$P = 5947 \text{ psig.}$$

14. Maximum allowable operating pressure as determined in accordance with DOT Title 49, Code of Federal Regulations, as applicable, is 5947 psig.
15. Prime movers will be the wellhead pressure.
16. a) The approximate construction starting date is July 1, 1984.
b) Pipeline construction will be conventional lay.
c) The pipeline will be buried 3' below mud line.
d) Time required to lay the pipeline is approximately 15 work days.
e) This project should be completed by July 15, 1984.

Enclosed are the appropriate number of copies of the maps and drawings referred to above, prepared and certified in accordance with applicable guidelines. A certified copy of the Articles of Incorporation and a certified copy of the resolution, under seal, certifying that the corporate officer executing the application has the authority to do so,

Tenneco Oil Exploration and Production

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has been previously submitted to your office. A filing fee of \$100.00 together with the first year's rental of \$60.00 computed on 4 miles right-of-way, is enclosed.

Also enclosed is an original and three (3) copies of a Nondiscrimination in Employment Statement as executed by Tenneco Oil Company.

If the above and attached information meets with your approval, we would appreciate your issuing the necessary permit for the right-of-way at your earliest convenience. Inquiries concerning this application may be directed to Keith Dupuis at (318) 269-7612.

Yours very truly,

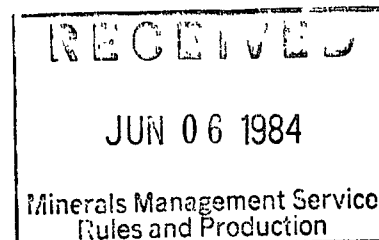
TENNECO OIL COMPANY
Central Gulf Division



William R. Taylor
Vice-President

WRT/KD/mea

Enclosures



**Tenneco Oil
Exploration and Production**

STIPULATION

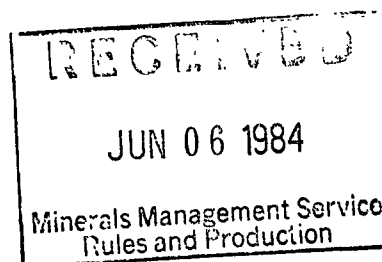
Tenneco Oil Company hereby agrees to keep open at all reasonable times for inspection by the Mineral Management Service, the area covered by this Right-of-Way, and all improvements, structures, and fixtures thereon, and all records relative to the design, construction, operation, maintenance, and repairs,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



Signature of the Grantee
William R. Taylor, Vice-President
Tenneco Oil Company
Central Gulf Division

Date: _____

6/5/84



**Tenneco Oil
Exploration and Production**

UNITED STATES
DEPARTMENT OF THE INTERIOR
MINERAL MANAGEMENT SERVICE
NONDISCRIMINATION IN EMPLOYMENT

As a condition precedent to the approval of the granting of the subject pipeline Right-of-Way, the grantee, Tenneco Oil Company, hereby agrees and consents to the following stipulation which is to be incorporated into the application for said Right-of-Way.

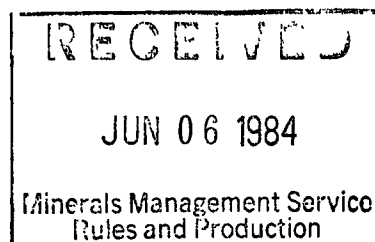
During the performance of this grant, the grantee agrees as follows:

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



Signature of the Grantee
William R. Taylor, Vice-President
Tenneco Oil Company
Central Gulf Division

Date: 6/5/84

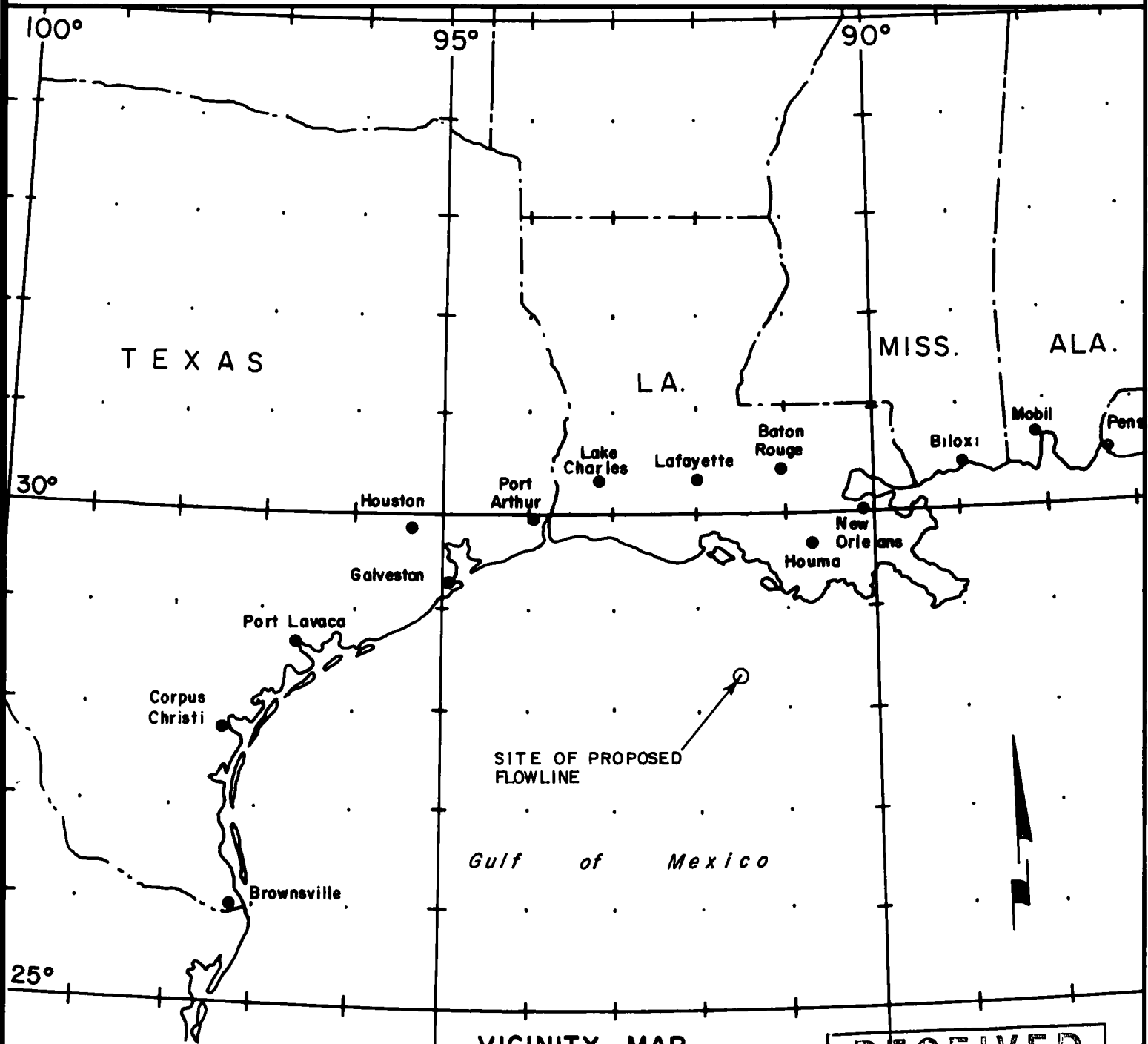


Tenneco Oil Exploration and Production

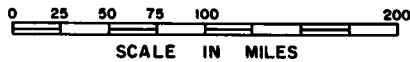
Lessees and Right-of-Way Holders to be notified of Tenneco Oil Company's proposed 4-inch line from Tenneco Oil Company's subsea completion in South Marsh Island Block 67 to Tenneco's "B" Drilling Platform in South Marsh Island Block 61.

<u>BLOCK</u>	<u>DECISION</u>	<u>LESSEE OR RIGHT-OF-WAY</u>
67	OCS-G-4806	TENNECO INCORPORATED GULF OIL CORPORATION
66	OCS-G-1198	AMINOIL USA, INC.
61	OCS-G-1196	TENNECO INCORPORATED

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VICINITY MAP



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αS-67101

PROPOSED 4" GAS FLOWLINE

SOUTH MARSH ISLAND AREA

GULF OF MEXICO

APPLICATION BY
TENNECO OIL COMPANY
LAFAYETTE, LOUISIANA
APRIL 12, 1984

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NOTE: FROM USC & GS Mon. LE TIGRE
S 12° 21' 51" E 338,898.49' TO
OCS-G-1196 "B" DRILL PLTM.

PT 162+64.46'
X=1,799,065.40'
Y= -2,674.22'
Lat. 28° 39' 28.092"
Long. 91° 57' 34.904"

P.C. 159+38.21'
X=1,798,879.55'
Y= -2,940.59'
Lat. 28° 39' 25.445"
Long. 91° 57' 36.974"

169+45.51'
X=1,799,540.62'
Y= -2,186.37'

61-B 188+99.87'
X=1,800,904.35'
Y= -786.45'
Lat. 28° 39' 46.878"
Long. 91° 57' 14.383"

60 60 61 61 62

67 67 66 66 65

TENNECO OIL COMPANY
OCS-G-4806

139+47.12'
X=1,798,020.56'
Y= -4,736.86'

96+55.46'
X=1,796,169.10'
Y= -8,608.61'

PROPOSED 4" GAS FLOWLINE

TOTAL LENGTH = 18,899.87' = 3.58 MI.

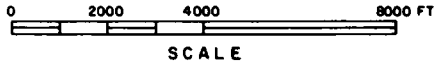
68+58.94'
X=1,794,962.66'
Y= -11,131.51'

67-1 0+00
X=1,792,003.66'
Y= -17,319.35'
Lat. 28° 37' 02.734"
Long. 91° 58' 53.221"

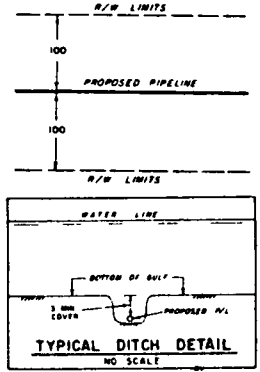
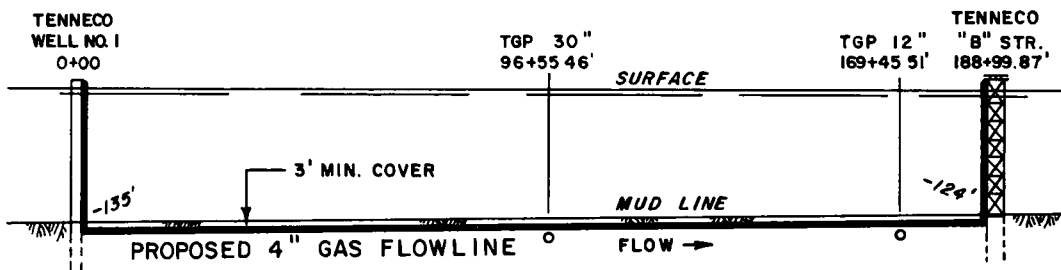


THE RIGHT-OF-WAY OF PROPOSED PIPELINE
IS ACCURATELY REPRESENTED.

Jack C. Scranton
REGISTERED LAND SURVEYOR NO. 320
STATE OF LOUISIANA
JOHN E. CHANCE & ASSOCIATES, INC.



PLAN



SPOIL TO BE DEPOSITED SO AS NOT TO REDUCE
WATER DEPTH MORE THAN 0.5 FOOT.
APPROX. 6300 CUBIC YARDS

PROFILE



APPLICATION BY
TENNECO OIL COMPANY
LAFAYETTE, LOUISIANA
APRIL 12, 1984

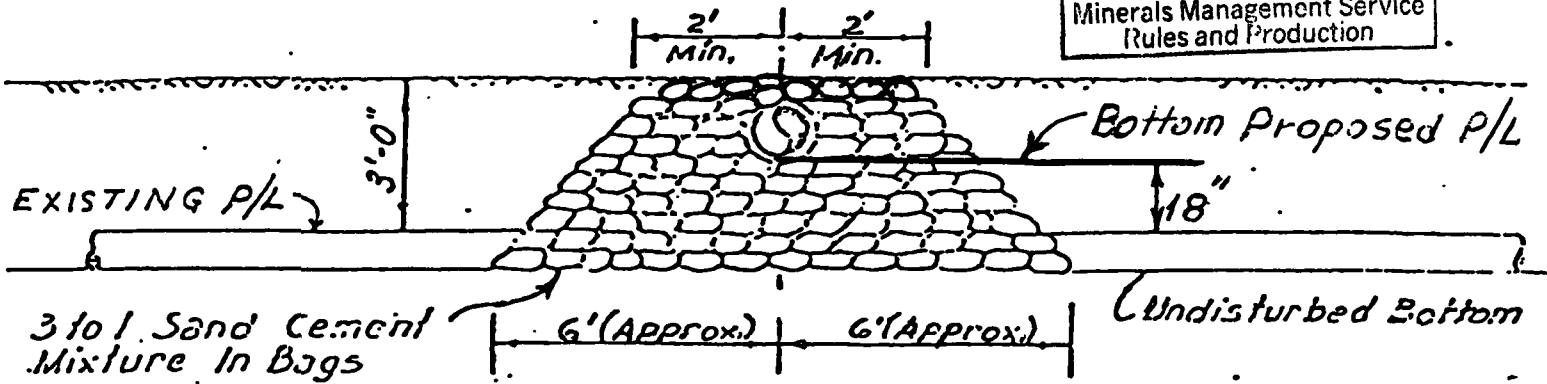
OCS-G 7101

SHEET 2 OF 2

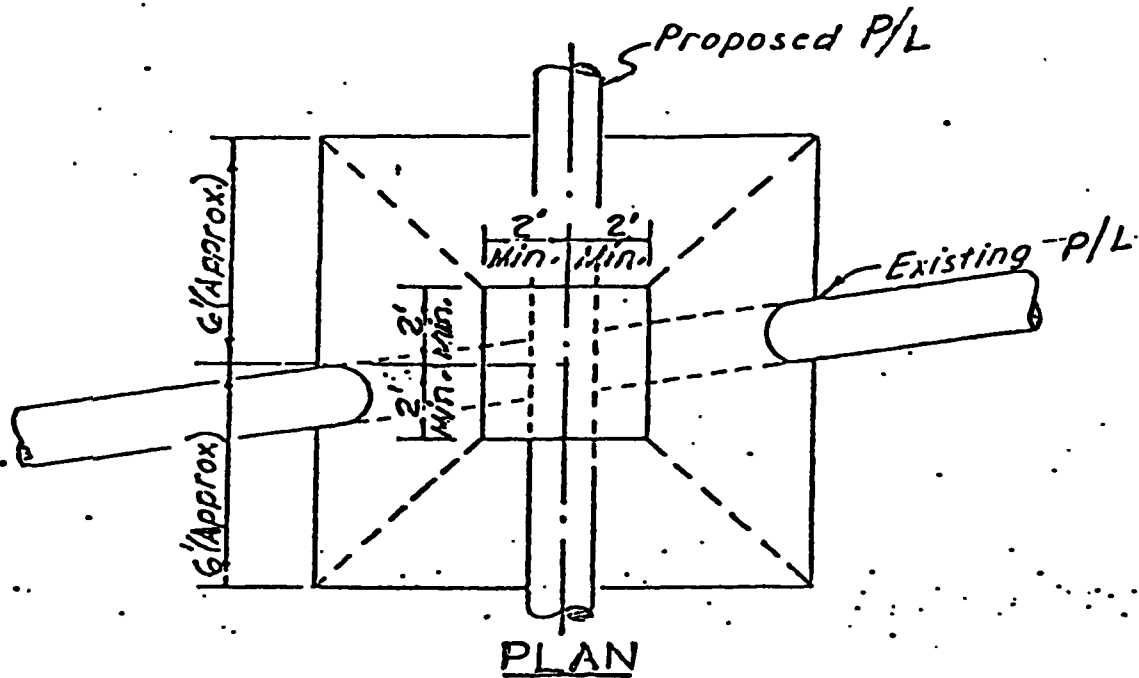
PROPOSED 4" GAS FLOWLINE
SOUTH MARSH ISLAND AREA
GULF OF MEXICO

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ELEVATION



PLAN

Note: A four (4) foot square piece of 3/8" Neoprene rubber to be placed over top of existing pipeline for positive insulation prior to placing sand-cement bags.

TENNECO OIL COMPANY
TYPICAL SANDBAGGING OF
FOREIGN PIPELINE CROSSING

OCS-G-7101

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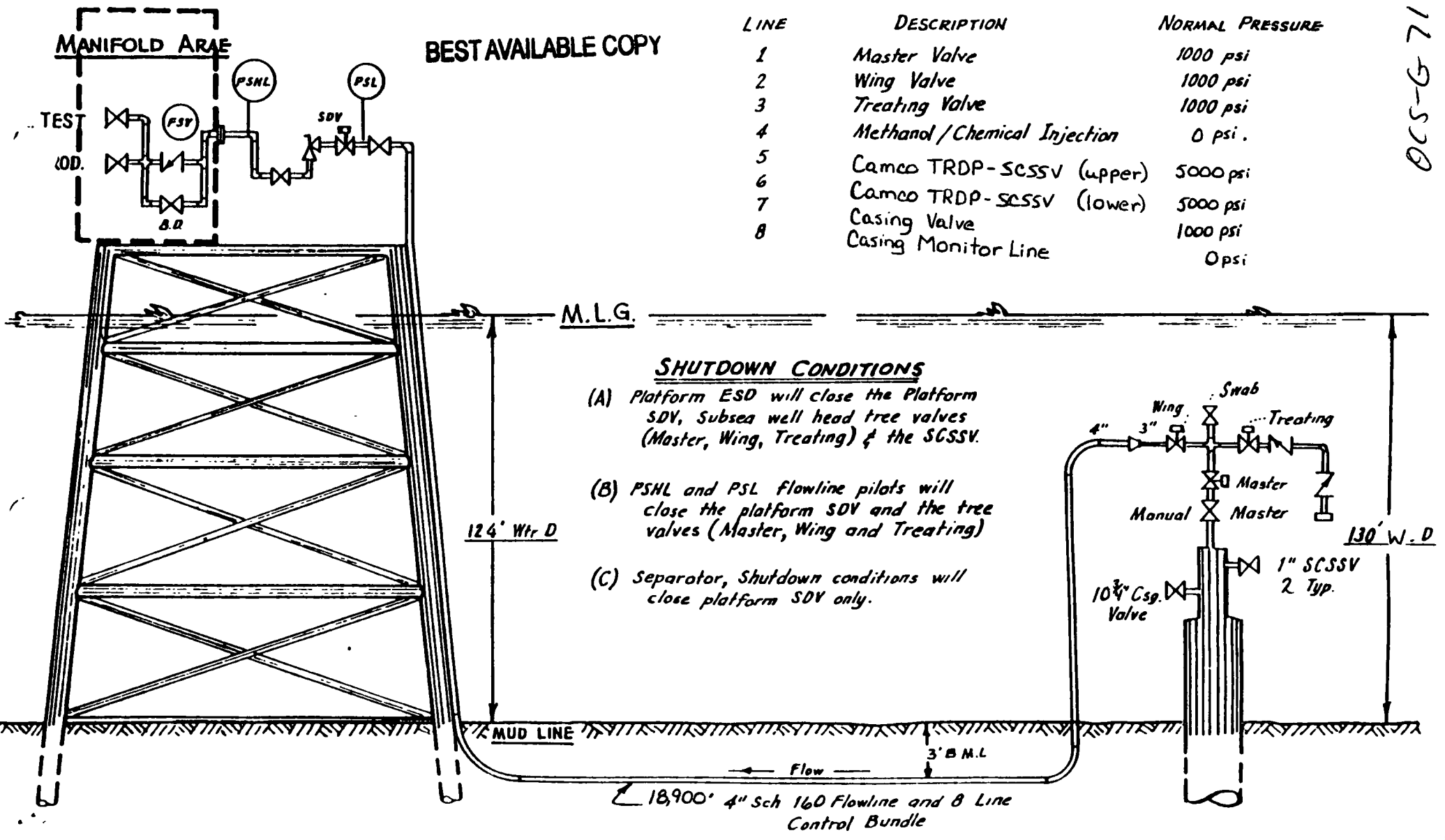
So. Marsh Isl. Blk. 67 #1 Subsea Well Control Completion

NOTE: 8 - 1/4" SS 316 L Control Line Bundle 5000 PSI W.P.
Will Hydraulically Operate Tree.

OCS-G 7101

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LINE	DESCRIPTION	NORMAL PRESSURE
1	Master Valve	1000 psi
2	Wing Valve	1000 psi
3	Treating Valve	1000 psi
4	Methanol/Chemical Injection	0 psi.
5	Cameco TRDP-SCSSV (upper)	5000 psi
6	Cameco TRDP-SCSSV (lower)	5000 psi
7	Casing Valve	1000 psi
8	Casing Monitor Line	0psi



SHUTDOWN CONDITIONS

- (A) Platform ESD will close the Platform SDV, Subsea well head tree valves (Master, Wing, Treating) & the SCSSV.
- (B) PSHL and PSL flowline pilots will close the platform SDV and the tree valves (Master, Wing and Treating)
- (C) Separator, Shutdown conditions will close platform SDV only.

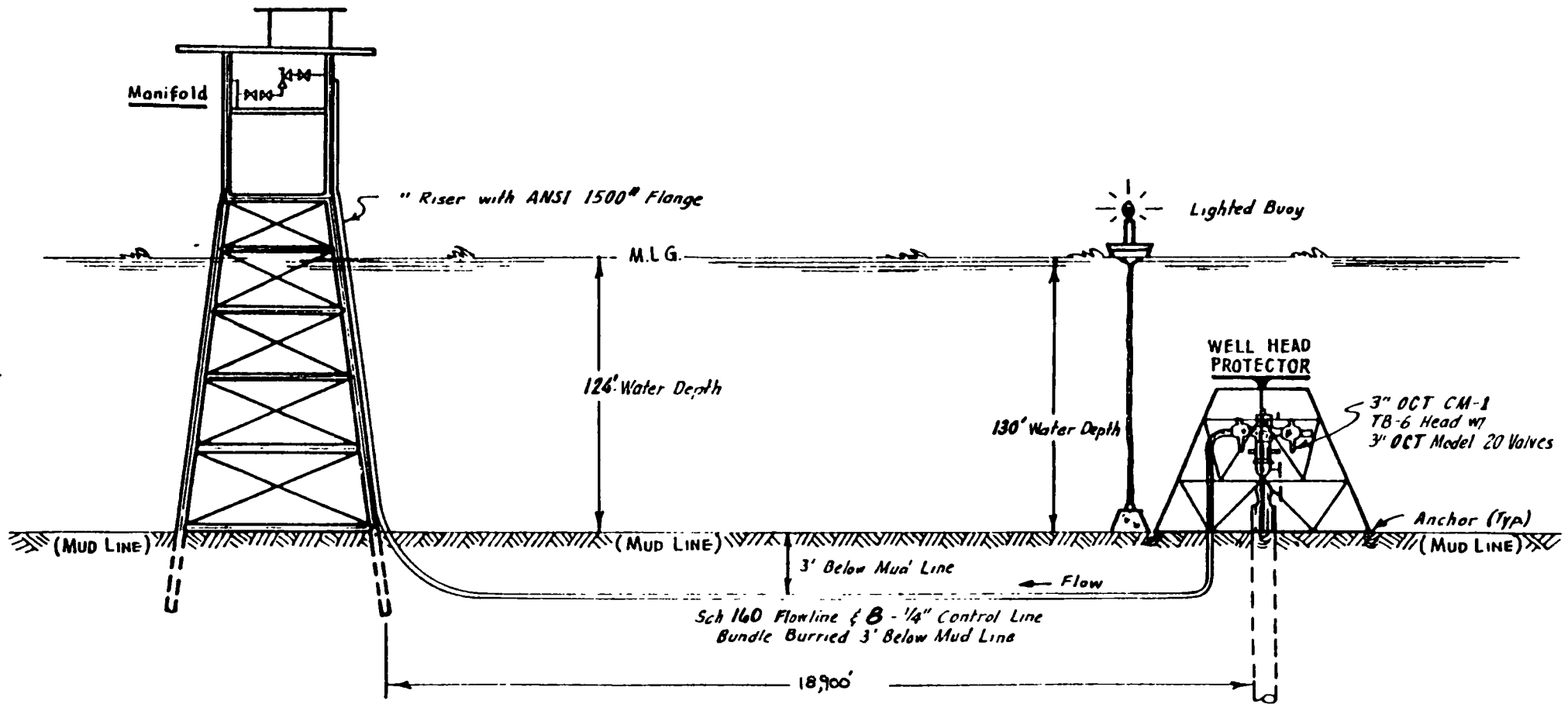
18,900' 4" Sch 16D Flowline and 8 Line Control Bundle

So. Marsh Isl. Blk. 67#1
PROPOSED 4" FLOWLINE

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OCS-G 7101

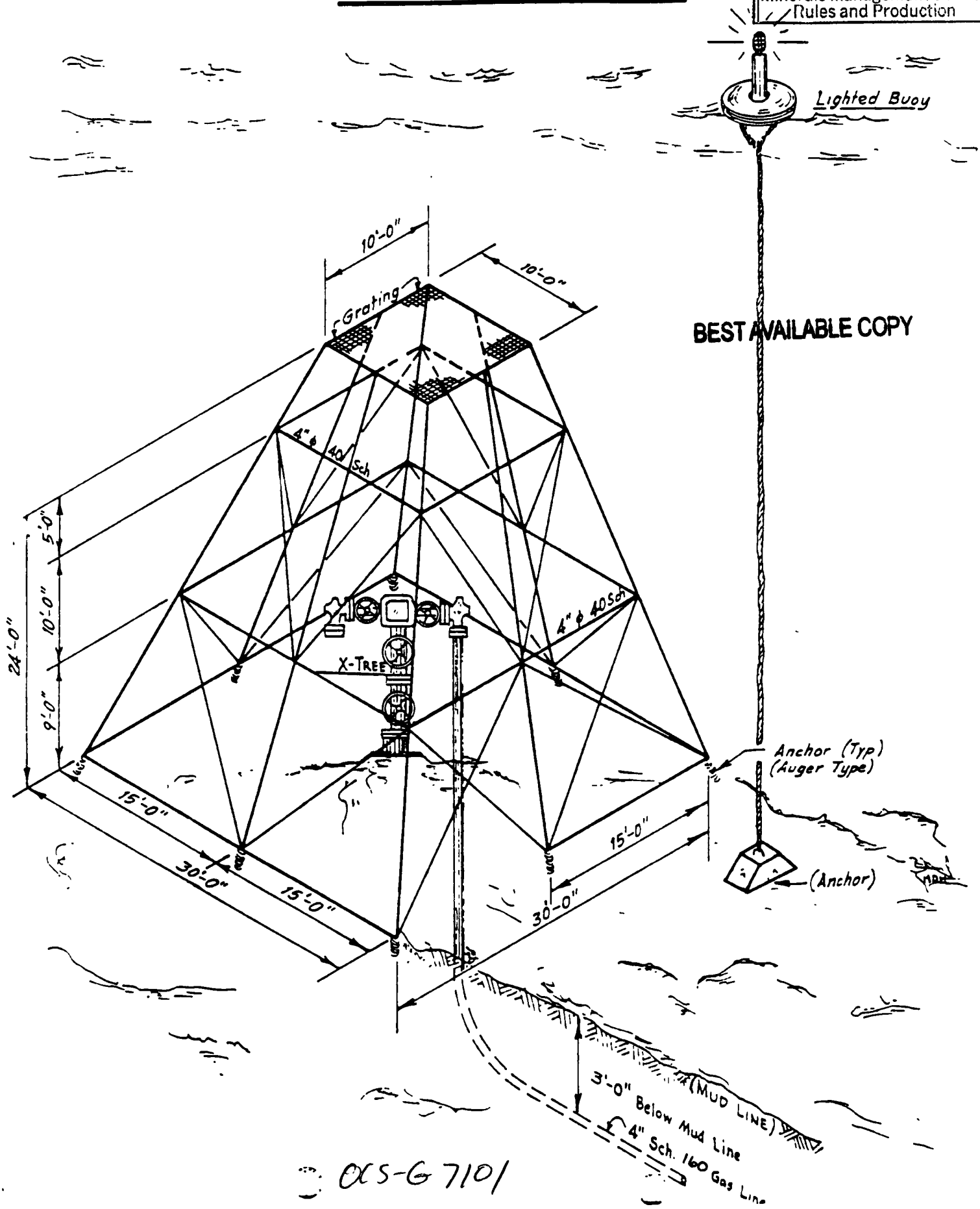


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So. Marsh Isl. Blk. 67#1 Sub-sea Well Protector



OCS-G 7101