



BEST AVAILABLE COPY

WALTER OIL & GAS CORPORATION

SN 7980

September 6, 1989

Mr. Daniel Bourgeois  
Regional Supervisor  
Office of Field Operations  
U. S. Department of the Interior  
Minerals Management Service  
1201 Elmwood Park Boulevard  
New Orleans, Louisiana 70123-2394



Attention: Ms. Carol Williams  
FO-2-2

RE: Relinquishment of Right-of-Way OCS-G 8599  
6" Bulk Gas Pipeline Installed In and/or Through Blocks  
321 and 296, Galveston Area, Gulf of Mexico  
Federal Waters, Offshore, Texas

Gentlemen:

Reference is made to that certain letter dated June 1, 1989 and approved by your office on July 5, 1989; whereby Walter Oil & Gas Corporation had submitted a request for the relinquishment of the right-of-way in its entirety and permission to abandon "In-Place" the above described pipeline.

Walter completed the abandonment "In-Place" of the 6" Right-of-Way Pipeline on August 19, 1989. The procedure consisted of the 6" pipeline, 27,050' in length, being flushed with seawater; 88' of the 6" riser was cut from pipeline at Platform "A", Block 321 and buried 3' below the mudline; a 6" blind cap was wet welded on the pipeline at Platform "A"; the 6" riser at OCS-G 0714, Ivory Production Company's Platform "B" was unbolted at +50' level and a blind flange was bolted on the riser at +50' level.

If you should require further information, please contact the undersigned at (713) 659-1222.

Very truly yours,

WALTER OIL & GAS CORPORATION

Susan Wilson  
Regulatory/Environmental Coordinator

:SEW

OK  
10/2/89  
KJ

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**HALL-HOUSTON OIL COMPANY**

700 Louisiana, Suite 2100/Houston, Texas 77002

— Please note our new address. —

Telephone  
(713) 225-0711  
Fax  
(713) 225-7600  
(713) 225-7601

DATE: 3-13-92

TO:

Centry Button

COMPANY:

TELECOPY #

504-736-2610

SUBJECT:

FROM:

HALL-HOUSTON OIL COMPANY

COMMENTS:

Pending the decision from your  
office (RE: additional expenses to us)  
we could be ready to install a pipeline  
in August.

URGENT ☒ROUTINE ☐

NUMBER OF PAGES TO FOLLOW: 1

If you have any questions, please call: (713) 225-0711

In 7980



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Y=396,000

297  
OCS-G-12501

296  
OCS-G-714

295  
OCS-G-713

320  
OCS-G-7245

GA  
321  
OCS-G-11316

322  
OCS-G-125

Y=384,000

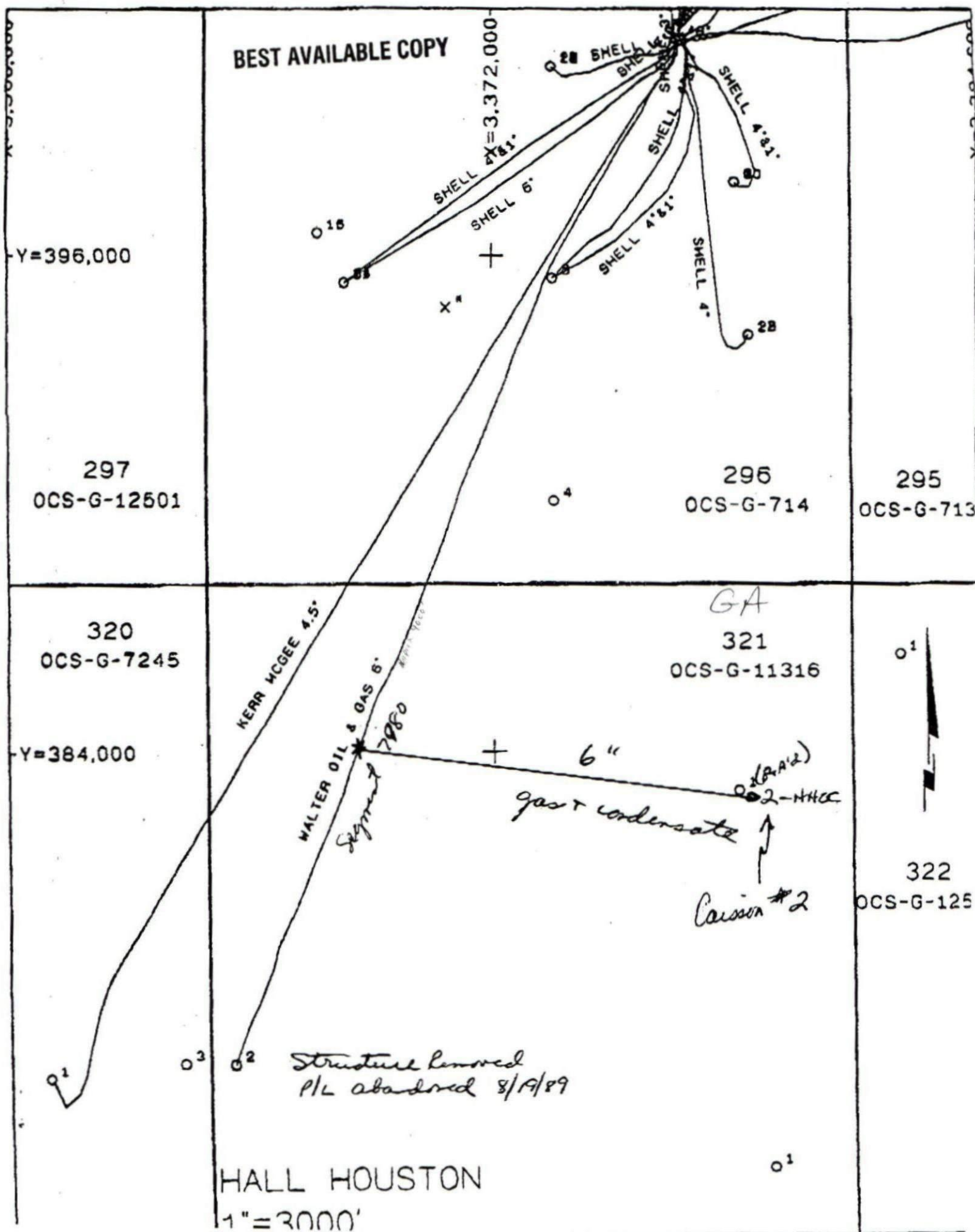
KERR MCGEE 4.5"

WALTER OIL & GAS 6"  
Segment 7080

6"  
gas + condensate  
Caisson #2

Structure removed  
P/L abandoned 8/19/89

HALL HOUSTON  
1"=3000'



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00000000000000000000

OCS-G 3641 — Approved — Feb. 23, 1978

— Installed — Oct. 29, 1979

— 6" gas P/L 3.34 miles From SS 292 'A' to SS 291 'A'

— Cathodic Protection = 38 yrs  
— 12 yrs  
bal. 26 yrs

— water depth = 232'

— NO leaks or Breaks

— MAOP = 1440

— Request for Relinq. + Aband of P/L in Place — July 30, 1987

— Approved Relq + Aband in Place August 19, 1987

---

OCS-G 8599 —

— 6" P/L From GA 321 'A' to GA 296 'B'

— Approved — 12-16-86

— Constructed — 2-12-87

— MAOP = 1440

— Cathodic Protection = 45 yrs — 3 = 39 yrs

— water depth 70'

— Request for Relq + Aband in Place — June 1, 1989

— Approved the Relq + Aband in Place — July 5, 1989



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MEMORANDUM  
OF CALL

Previous editions usable

TO:



YOU WERE CALLED BY-



YOU WERE VISITED BY-

OF (Organization)



PLEASE PHONE



FTS



AUTOVON



WILL CALL AGAIN



IS WAITING TO SEE YOU



RETURNED YOUR CALL



WISHES AN APPOINTMENT

MESSAGE

Returned call, left message  
on recorder

Waller oil gas 1989 0  
SN 7980 #2 GA 321 - 296  
SHELL

RECEIVED BY

DATE

TIME

63-110 NSN 7540-00-634-4018

☆U.S.G.P.O. 1991 281-781/40009

STANDARD FORM 63 (Rev. 8-81)

Prescribed by GSA  
FPMR (41 CFR) 101-11.6



## United States Department of the Interior

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

SN 7980  
TAKE  
PRIDE IN  
AMERICA

In Reply Refer To: LE-3-1  
OCS-G 8599

July 5, 1989

### ACTION

Walter Oil & Gas Corporation

Right-of-Way

### RELINQUISHMENT OF RIGHT-OF-WAY GRANT ABANDONMENT OF PIPELINE

On November 6, 1986, Walter Oil & Gas Corporation filed an application for a right-of-way two hundred feet (200') in width for the construction, maintenance, and operation of a 6 5/8-inch bulk gas pipeline, 5.11 miles in length, from Walter Oil & Gas Corporation's Platform "A" in Block 321, to Ivory Production Co.'s Platform "B" in Block 296, all located in Galveston Area. By Action dated December 18, 1986, the application was approved and the right-of-way granted. Proof of construction was subsequently accepted on February 19, 1987, on 5.12 miles of right-of-way.

On June 5, 1989, Walter Oil & Gas Corporation requested relinquishment of the right-of-way in its entirety. Additionally, grantee requested permission 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 5.12 miles of line pipe is hereby waived.

Therefore, the pipeline right-of-way grant is relinquished effective as of June 5, 1989, the date the request for relinquishment was filed in this office.

*Chris Depue for*

J. Rogers Percy  
Regional Director

cc: Case File



In Reply Refer To: LE-3-1  
OCS-G 8599

July 5, 1989

ACTION

Walter Oil & Gas Corporation

Right-of-Way

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Inasmuch as grantee has agreed to comply with 30 CFR 250, Subpart J, removal of the 5.12 miles of line pipe is hereby waived.

Therefore, the pipeline right-of-way grant is relinquished effective as of June 5, 1989, the date the request for relinquishment was filed in this office.

(Orig. Sgd.) Chris Oynes

J. Rogers Percy  
Regional Director

cc: Case File

bcc: SEQ(250) (LE-3-1)

MHolmes:alc

*mf*  
*on* 7/10/89  
*RT*



WALTER OIL & GAS CORPORATION

ACCEPTED

*Chris Dignas*

Regional Director

Effective Date JUN 5 1989

June 1, 1989

Mr. Daniel Bourgeois  
Regional Supervisor  
Office of Field Operations  
U. S. Department of the Interior  
Minerals Management Service  
1201 Elmwood Park Boulevard  
New Orleans, Louisiana 70123-2394

Attention: Ms. Mary Holmes  
LE-3-1

RE: Application to Relinquish Right-of-Way OCS-G 8599  
6" Bulk Gas Pipeline Installed In and/or Through Blocks  
321 and 296, Galveston Area, Gulf of Mexico,  
Federal Waters, Offshore, Texas

Gentlemen:

Walter Oil & Gas Corporation (Walter), as owner and holder, hereby requests in accordance with Title 30 CFR Part 250, Subpart "J", approval to relinquish, abandon, and revoke all of its right, title and interest in that certain pipeline Right-of-Way, designated as OCS-G 8599 granted to Walter Oil & Gas Corporation by Minerals Management Service on December 16, 1986 and described as follows:

A right-of-way 200 feet in width for the construction, operation and maintenance of a 6-5/8" bulk gas pipeline, 5.11 miles (27,050') in length, from Walter Oil & Gas Corporation's Platform "A" in Block 321, to Ivory's Production Company's Platform "B" in Block 296, all located in Galveston Area.

Walter Oil & Gas in its request for abandonment, relinquishment, revocation and termination of the Right-of-Way Grant, hereby agrees:

1. Walter Oil & Gas, in the abandonment of its pipeline in place, shall purge, flood and cap the pipeline.
2. Walter shall remove any platforms, structures, domes over valves, taps and valves along the right-of-way which present any hazard to navigation or fishing.
3. Walter shall demonstrate to the satisfaction of the MMS all open ends of the pipe have been plugged and buried to a minimum of three feet or such other depth as required by the MMS.
4. Any improvement required to be removed, shall be removed by Walter within one year of the effective date of the relinquishment, revocation, termination and abandonment.



Application for Relinquishment  
of Right-of-Way, OCS-G 8599  
June 1, 1989

Page Two


5. All structures, accessories thereto or improvements not removed in the time period provided shall become the property of the United States, Walter shall not be relieved of liability for the cost of the removal or for restoration of the site.

Enclosed are three copies of the "As-Built" Map setting out the location of the pipeline to be abandoned for your information.

Should you require additional information to complete this application, please contact Susan Wilson, Regulatory Coordinator at (713) 659-1222.

Very truly yours,

WALTER OIL & GAS CORPORATION

  
J. C. Walter, III  
Executive Vice President

JCW,III:SW

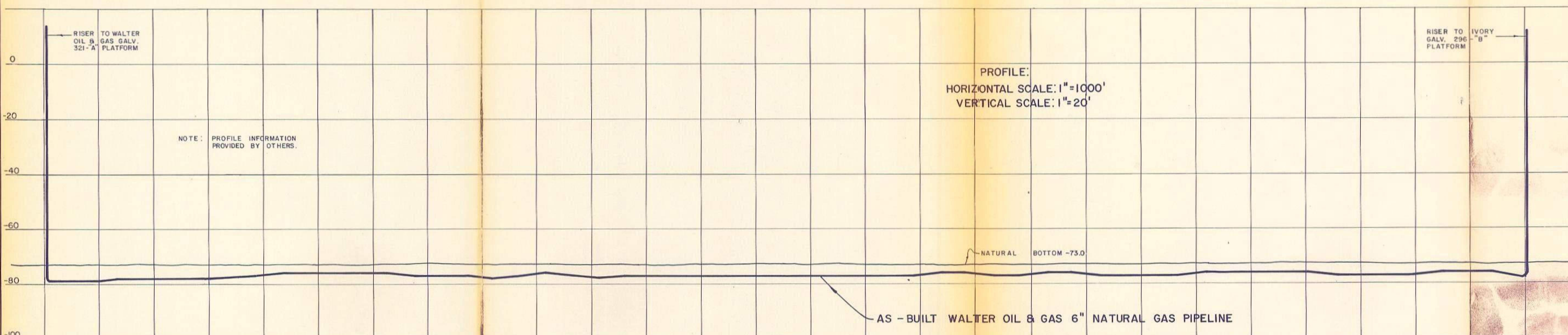
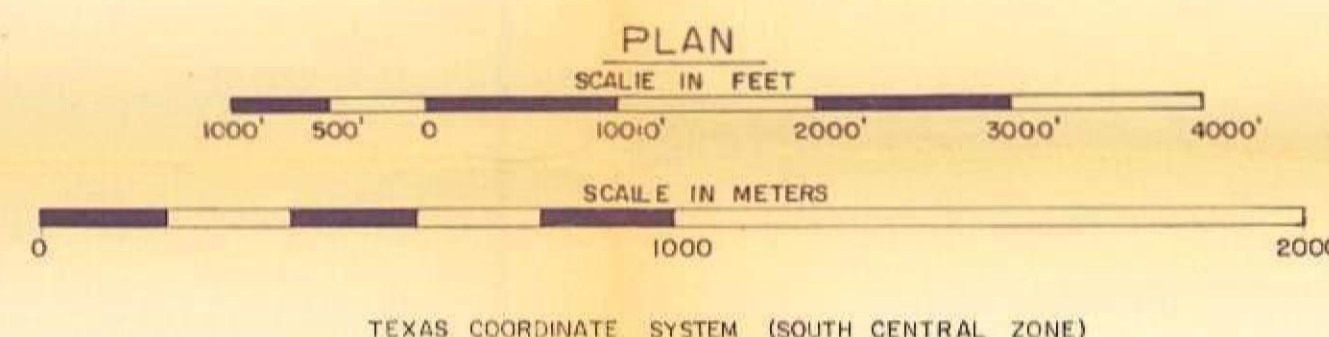
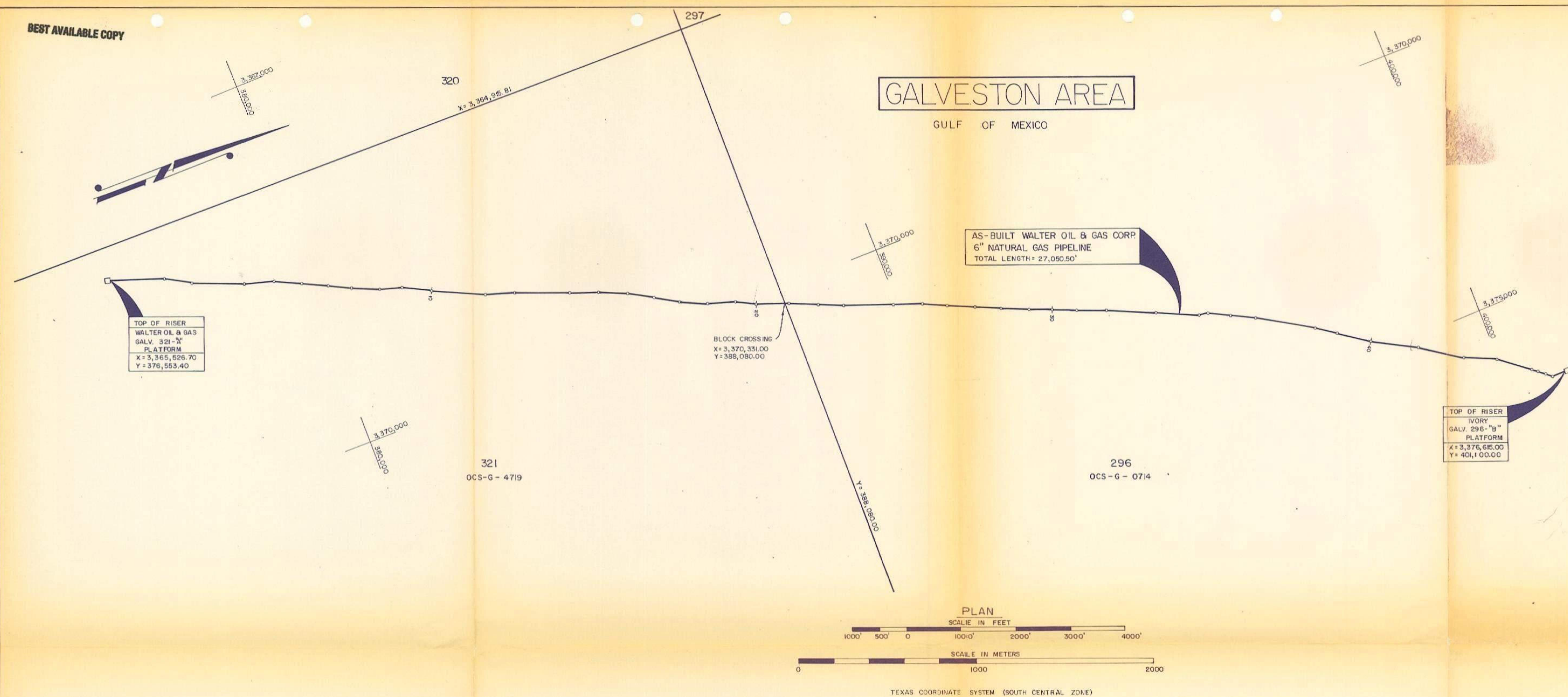
Attachment



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# GALVESTON AREA

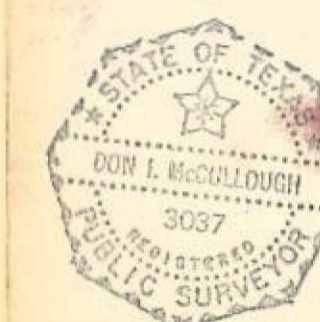
GULF OF MEXICO



FIX NO.	STATION NO.	"X" EASTING	"Y" NORTHING	DESCRIPTION	DIST. (FEET)	AZIMUTH DEG. MIN. SEC.
1	10+08.74	3,365,877.04	377,499.35	AS-BUILT 6" PIPELINE	1,008.74	20° 19' 22"
2	15+15.83	3,366,106.99	377,951.30	"	507.09	26° 57' 59"
3	24+99.22	3,366,473.12	378,863.99	"	983.39	21° 51' 29"
4	30+23.87	3,366,604.16	379,372.02	"	524.65	14° 27' 50"
5	35+79.76	3,366,837.90	379,876.38	"	555.89	24° 51' 54"
6	40+40.04	3,367,050.46	380,284.64	"	460.28	27° 30' 14"
7	44+90.67	3,367,231.60	380,697.26	"	450.63	23° 42' 05"
8	49+97.80	3,367,415.52	381,169.86	"	507.12	21° 15' 49"
9	54+28.48	3,367,590.17	381,563.53	"	430.68	23° 56' 29"
10	59+36.67	3,367,806.57	382,023.35	"	508.20	25° 12' 10"
11	69+83.49	3,368,220.47	382,984.87	"	1,046.8	23° 17' 23"
12	75+07.79	3,368,384.72	383,482.78	"	524.31	18° 15' 26"
13	84+98.93	3,368,745.83	384,405.79	"	991.13	21° 22' 00"
14	90+24.21	3,368,924.74	384,899.67	"	525.28	19° 54' 48"
15	95+79.96	3,369,124.25	385,418.37	"	555.75	21° 02' 17"
16	100+50.08	3,369,355.48	385,857.23	"	510.72	30° 45' 18"
17	105+78.78	3,369,616.47	386,287.21	"	498.10	28° 14' 44"
18	110+84.71	3,369,806.78	386,755.98	"	505.93	22° 05' 46"
19	115+87.22	3,369,990.23	387,223.81	"	502.51	21° 24' 40"
20	119+86.62	3,370,144.75	387,592.11	"	399.40	22° 45' 39"
21	125+82.00	3,370,357.09	388,148.35	"	595.37	20° 53' 40"
22	131+24.30	3,370,566.34	388,648.64	"	542.30	22° 41' 48"
23	135+93.46	3,370,744.03	389,082.84	"	469.16	22° 15' 24"
24	145+30.37	3,371,066.09	389,963.03	"	936.91	20° 02' 23"
25	150+43.94	3,371,233.08	390,448.24	"	513.47	19° 05' 43"
26	155+32.30	3,371,427.35	390,896.41	"	488.46	23° 26' 08"
27	160+06.95	3,371,626.19	391,327.41	"	474.65	24° 45' 59"
28	164+99.00	3,371,818.43	391,780.34	"	492.05	22° 59' 54"
29	170+19.72	3,372,023.77	392,258.87	"	520.72	23° 13' 29"
30	174+46.66	3,372,190.47	392,652.13	"	427.14	22° 58' 16"
31	179+10.16	3,372,364.92	393,081.34	"	463.30	22° 07' 10"
32	184+38.12	3,372,527.83	393,583.54	"	527.96	17° 58' 23"
33	193+60.94	3,372,913.30	394,421.99	"	922.82	24° 41' 23"
34	201+75.15	3,373,227.48	395,173.15	"	814.22	22° 41' 52"
35	203+26.62	3,373,285.41	395,319.79	"	151.47	14° 30' 12"
36	207+43.26	3,373,451.92	395,692.35	"	416.64	26° 39' 34"
37	212+05.20	3,373,665.56	396,101.92	"	461.94	27° 32' 53"
38	223+25.52	3,374,225.43	397,072.31	"	1,120.32	29° 58' 58"
39	227+40.86	3,374,457.38	397,416.86	"	415.34	33° 56' 54"
40	234+06.15	3,374,802.47	397,985.64	"	665.28	31° 14' 45"
41	242+42.36	3,375,216.41	398,712.20	"	836.21	29° 40' 17"
42	251+20.34	3,375,707.84	399,439.77	"	877.98	34° 02' 12"
43	257+45.62	3,375,975.46	400,004.89	"	625.29	25° 20' 26"
44	264+02.01	3,376,371.16	400,528.59	"	656.39	37° 04' 26"
45	265+29.96	3,376,466.06	400,614.40	"	127.94	47° 53' 02"
46	266+32.63	3,376,533.35	400,762.50	"	162.66	24° 25' 58"
47	268+26.49	3,376,603.90	400,876.27	"	133.86	31° 48' 11"
48	270+50.50	3,376,615.00	401,100.00	RISER: IVORY GALV. 296-"B" PLAT.	224.01	2° 50' 28"

CERTIFIED CORRECT AS TO THE HORIZONTAL POSITION OF PIPELINE.

*Don I. McCullough*  
DON I. McCULLOUGH  
REGISTERED PUBLIC SURVEYOR NO. 3037  
STATE OF TEXAS  
T. BAKER SMITH & SON, INC.



T. BAKER SMITH & SON, INC.  
CIVIL ENGINEERS - LAND SURVEYORS  
HOUMA, LOUISIANA

TITLE: AS-BUILT  
WALTER OIL & GAS 6" NATURAL GAS PIPELINE  
GALVESTON AREA BLOCKS 296 & 321  
FOR  
WALTER OIL & GAS CORP.

DRAWN: D.L.M. SPV.  
CHKD: L.J.C. NO.  
DATE: 1/8/87 SHEET 1 OF 1



UNITED STATES GOVERNMENT  
MEMORANDUM

June 16, 1989

To: Adjudication, Leasing and Environment, GOM OCS Region (LE-3-1)  
From: Chief, Environmental Operations Section, Leasing and Environment,  
GOM OCS Region (LE-5)  
Subject: Waiver of Removal Requirements for Pipelines OCS-G 8599 Abandoned  
in Place

Our review of the subject action is complete (Walter Oil and Gas Corporation's request dated June 1, 1989). No environmental protective measures were identified.

  
Jerry Brashier

Attachment

cc: SEQ (256.83) (LE-5)

RBennett:jl b

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

Generic NEPA Categorical Exclusion Review  
for  
Abandonment of Pipelines

ACTION IDENTIFICATION

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

Action Description: The abandonment of lease term (permitted)/rights-of-way pipelines in situ through a waiver of removal requirements for these pipelines. The applicant proposes to abandon the pipeline in situ in accordance with Title 30 CFR, Part 250, Section 250.157(c).

The Categorical Exclusion Review (CER) evaluated the proposed action and determined that it meets the categorical exclusion criteria as defined by 516 DM 2.3A(1) which states "(a) the action or group of actions would have no significant effect on the quality of the human environment, and (b) the action or group of actions would not involve unresolved conflicts concerning alternative uses of available resources." The potential impacts from this action have been determined by environmental and resource specialists to have an environmental effect less significant than that when the pipeline was installed.

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

Mitigation measures, if any, concerning endangered/threatened species, biologically sensitive features, and military warning areas that were a part of the letter of approval for the subject pipeline right-of-way permit shall be effective for abandonment of the pipeline in situ.



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

No environmental protective measures were identifies.

June 16, 1989      Richard T. Bennett      6-19-89      for [Signature]  
Date                      Preparer                      Date                      Chief, Environmental  
Operations Section

I concur.

6/20/89  
Date

[Signature]  
Regional Supervisor  
Leasing and Environment *Acting*

SN 7780

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Williams)  
2-19-87  
Kaly 2/19/87  
Jensen 2/19/87

In Reply Refer To: FO-2-2  
OCS-G 8599

FEB 19 1987

ACTION

Walter Oil & Gas Corporation : Pipe Line Right-of-Way  
: :  
: Date of Permit: 12/18/86  
: :  
: Proof of Construction  
: Received: 2/12/87

Proof of Construction Accepted

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

The total length of the "as-built" pipeline right-of-way is 5.12 miles.

for (Orig. Sgd.) H. P. Sieverding

J. Rogers Percy  
Regional Director

bcc: P/L OCS-G 8599 (w/attachments) (FO-2-2) (K. Faust)  
P/L OCS-G 8599 (FO-2-2)  
ORD Reading File  
OPS-5 (w/copy of location plat)  
FO-7

CWilliams:jj:2/18/87:LEXITYPE Disk 5

on map  
4/15/87  
KA

PWQ  
2-19-87  
Carol





WALTER OIL & GAS CORPORATION

February 10, 1987

Mr. Daniel Bourgeois  
Regional Supervisor  
Field Operations  
U. S. Department of the Interior  
Minerals Management Service  
1201 Elmwood Park Boulevard  
New Orleans, Louisiana 70123-2394



Attention: Mr. Autry Britton

Re: OCS-G 8599; Pipeline Right-of-Way  
from Block 321 to Block 296  
Galveston Area, Offshore, Texas

Gentlemen:

Pursuant to the provisions of OCS Order No. 9, Walter Oil & Gas Corporation herein submits three (3) copies of the "as-built" survey map, hydrostatic pressure test report and charts, and calibration certificates for the above referenced pipeline right-of-way.

Please advise should you have any questions or require additional information.

Sincerely,

WALTER OIL & GAS CORPORATION

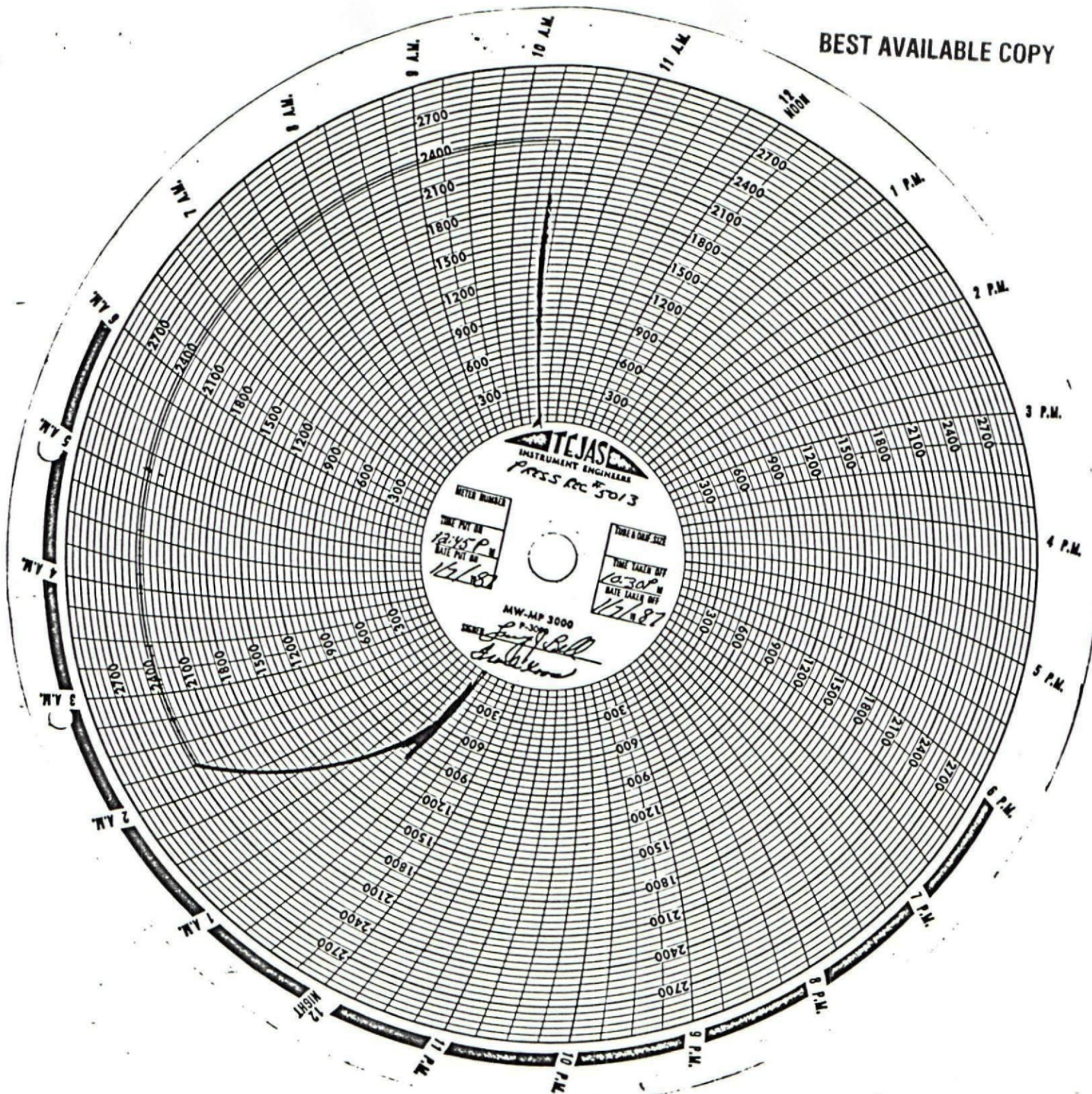
*Kim Burkett*

Kim Burkett  
Regulatory & Environmental Coordinator

Enclosures

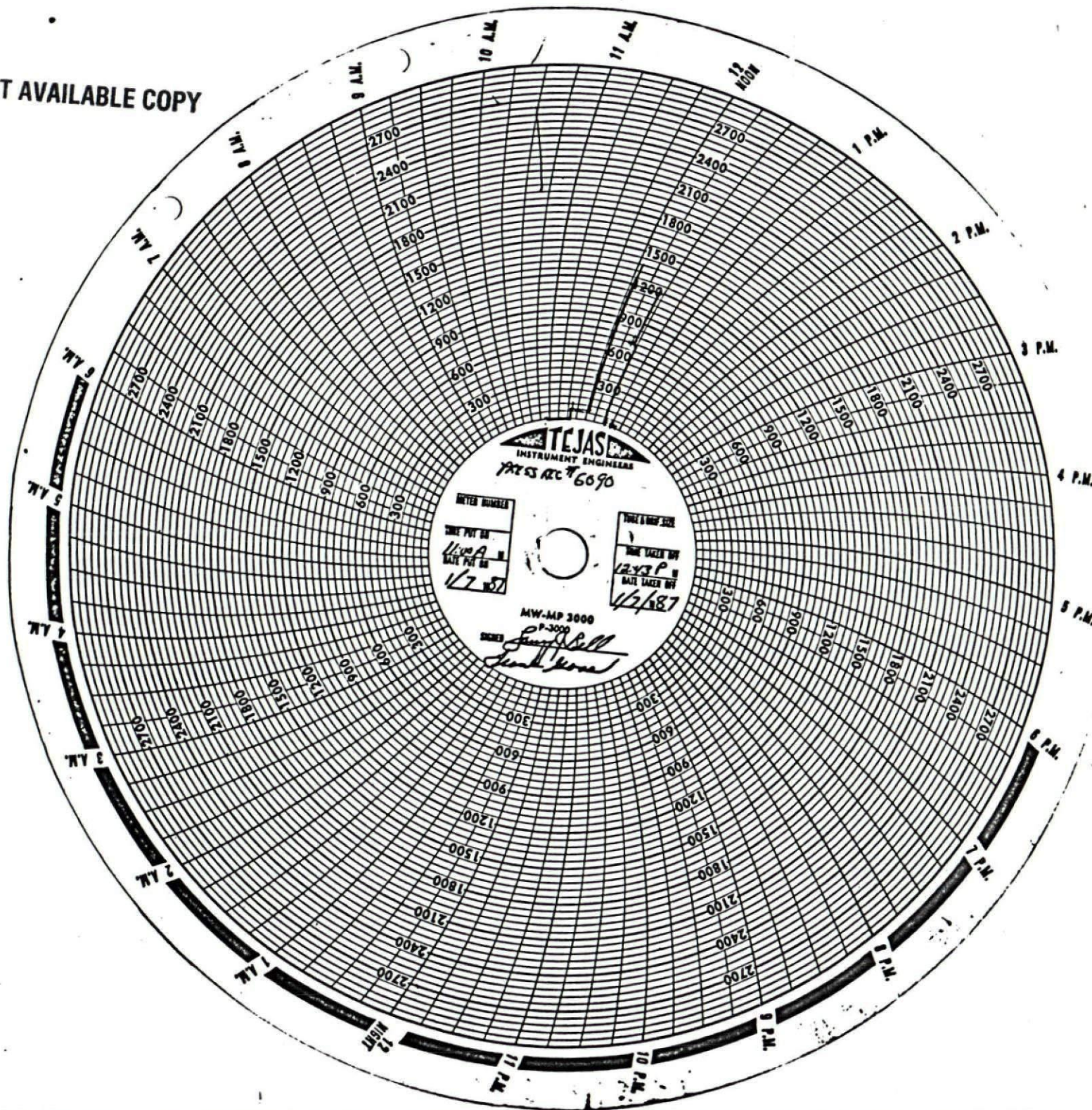


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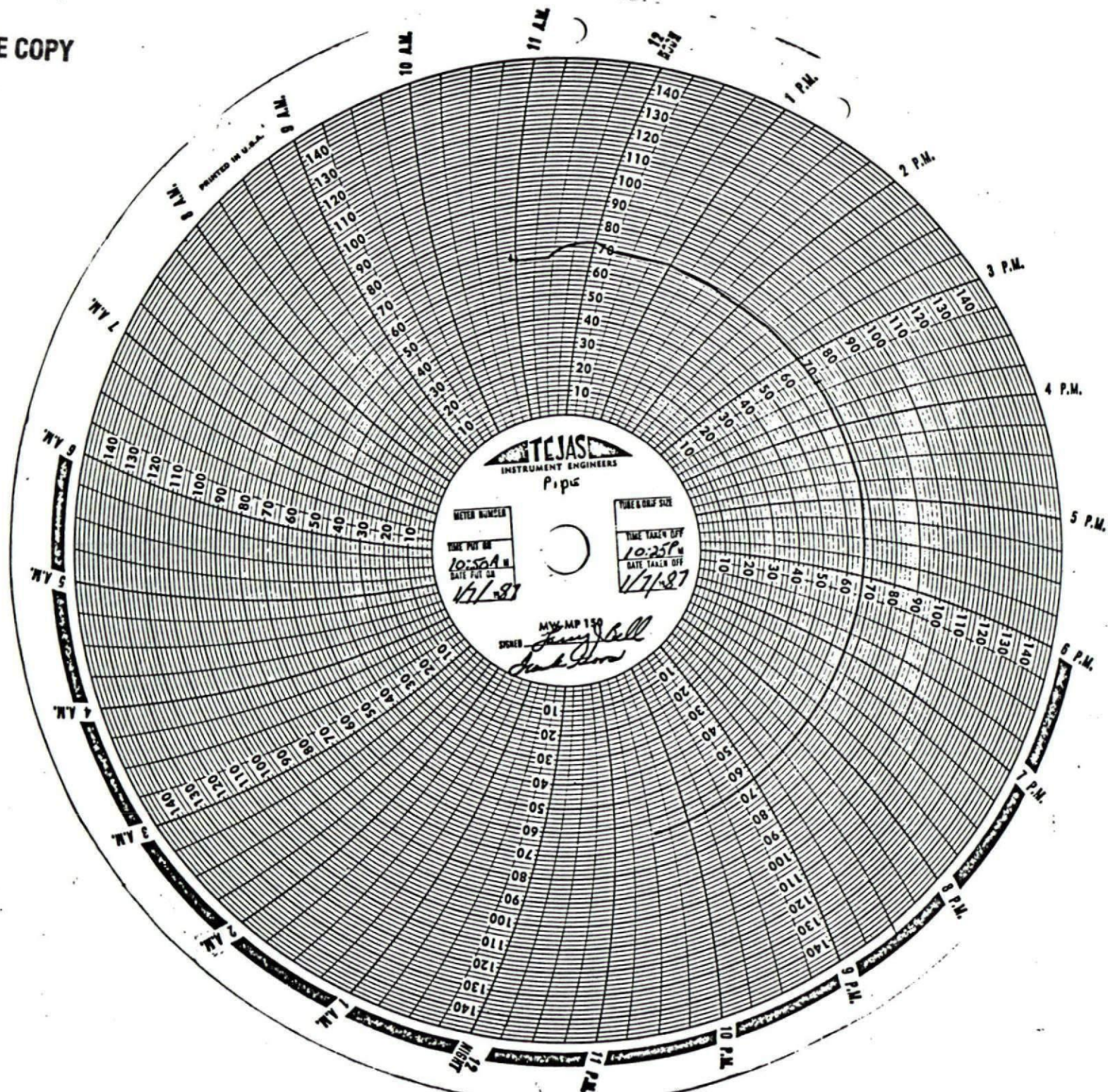


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HYDROSTATIC TEST REPORT

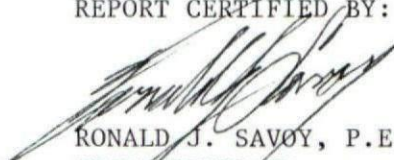
WALTER OIL & GAS  
27,207.62' - 6 5/8" x 0.432"  
GALVESTON 321

C.S.I. HYDROSTATIC TESTERS, INC.  
LAFAYETTE, LOUISIANA

PRIME CONTRACTOR  
MCCLEARY OFFSHORE CONSTRUCTION

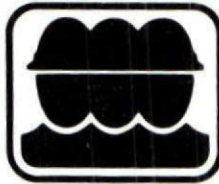
DATE OF TEST  
JANUARY 7, 1987

REPORT CERTIFIED BY:

  
RONALD J. SAVOY, P.E.  
VICE-PRESIDENT







A Hargett Company

January 7, 1987

Mr. Bobby Gunn  
MCCLEARY OFFSHORE CONSTRUCTION  
P.O. Box 3562  
Morgan City, LA 70381

RE: WALTER OIL & GAS  
27,207.62' - 6 5/8" x 0.432"  
GALVESTON 321

Dear Mr. Gunn:


We have carefully reviewed and evaluated all data assembled from the hydrostatic test on WALTER OIL & GAS's subject line.

Upon completion of the fill of the line, a hydrostatic test was performed using approved engineering practices and procedures. Information detailed on the required test forms show conclusively that the pipeline is as safe as today's technology can produce.

From the test results, it is concluded that WALTER OIL & GAS has used the latest advanced scientific developments in the field of hydrostatic testing in compliance with all current state and federal safety regulations.

Sincerely,

C.S.I. HYDROSTATIC TESTERS, INC.

  
RONALD J. SAVOY, P.E.  
VICE-PRESIDENT

RJS/ct



**CSI Hydrostatic Testers, Inc.**

P. O. Box 51282    Lafayette, Louisiana 70505-1282    Phone 318/235-7567

# C.S.I. HYDROSTATIC TESTERS

## Hydrostatic Test Report

P. BOX 51282, O.C.S.

LAFAYETTE, LA. 70505

Company WALTER OIL & GAS

Line \_\_\_\_\_ Location GALVESTON 321 Job No. \_\_\_\_\_ Length 27,207.62 ft.

Line Size 6 5/8" O.D. 0.432" W.T. Gr. \_\_\_\_\_ Sta/M.P. \_\_\_\_\_ to Sta/M.P. \_\_\_\_\_

Terrain \_\_\_\_\_ Soil Condition \_\_\_\_\_

Fill began \_\_\_\_\_ at \_\_\_\_\_ A.M. P.M. Fill Completed \_\_\_\_\_ at \_\_\_\_\_ A.M. P.M.

Meter Reading: Beginning \_\_\_\_\_ Gals., Final \_\_\_\_\_ Gal.

Displacement: Theoretical \_\_\_\_\_ Gal., Meas. \_\_\_\_\_ Gal.

Gallons Required to increase pressure from \_\_\_\_\_ P.S.I.G. to \_\_\_\_\_ P.S.I.G. \_\_\_\_\_ Gal.

Exposed pipe \_\_\_\_\_ ft. General Contractor MCCLEARY OFFSHORE

Fill water Temperature

MAX 2360 - MIN 2160

TIME		Deadweight Pressure	TEMPERATURE OF			REMARKS
Date	Hour		Air	Pipe	Remote Earth	
1-7-87	11:55	0				START
	12:22	1200				HOLD 5 MIN. BLEED AIR FROM OTHER SIDE
						RECORDER IS NOT KEEPING TIME,
	12:45	0				SWITCH RECORDERS.
	12:53	0				START BACK.
	1:04	625				SWITCH PUMP LOWER GEAR
	2:17	2356	65°	68°		ON TEST
	2:30	2354	65°	69°		
	2:45	2353	64°	68°		
	3:00	2352	64°	68°		
	3:15	2352	64°	68°		
	3:30	2352	64°	68°		
	3:45	2352	64°	68°		
	4:00	2352	63°	68°		<b>BEST AVAILABLE COPY</b>
	4:15	2352	63°	68°		
	4:30	2351	63°	68°		
	4:45	2351	63°	68°		
	5:00	2351	63°	67°		
	5:15	2351	63°	67°		
	5:30	2351	63°	66°		
	5:45	2351	63°	66°		
	6:00	2351	63°	66°		

CSI Engineer LARRY J. BELL

Field Approval for Pipeline Company

Witness 1 \_\_\_\_\_

Insp. FRANK GOOS

2 \_\_\_\_\_

Chief Insp. \_\_\_\_\_



# Hydrostatic Test Report

LAFAYETTE, LA. 70505

Line Size 6 5/8" O.D. 0.432" W.T. Gr.            Sta/M.P.            to Sta/M.P.           

[illegible]

~~BEST AVAILABLE COPY~~

CSI Engineer LARRY J. BELL

Witness 1 \_\_\_\_\_

Insp. FRANK GOOS

Chief Insp. \_\_\_\_\_

# Hydrostatic Test Report

LAFAYETTE, LA. 70505

Line Size\_\_\_\_\_ O.D.\_\_\_\_\_ W.T. Gr.\_\_\_\_\_ Sta/M.P.\_\_\_\_\_ to Sta/M.P.\_\_\_\_\_

**BEST AVAILABLE COPY**

Larry Bell

Insp.

Frank Goos

2

Chief Insp.



# C.S.I. HYDROSTATIC TESTERS

## Hydrostatic Test Report

P. O. BOX 51282, O.C.S.

LAFAYETTE, LA. 70505

Company \_\_\_\_\_

Line \_\_\_\_\_ Location \_\_\_\_\_ Job No. \_\_\_\_\_ Length \_\_\_\_\_ ft.

Line Size \_\_\_\_\_ O.D. \_\_\_\_\_ W.T. Gr. \_\_\_\_\_ Sta/M.P. \_\_\_\_\_ to Sta/M.P. \_\_\_\_\_

Terrain \_\_\_\_\_ Soil Condition \_\_\_\_\_

Fill began \_\_\_\_\_ at \_\_\_\_\_ A.M. Fill Completed \_\_\_\_\_ at \_\_\_\_\_ A.M.  
P.M.

Meter Reading: Beginning \_\_\_\_\_ Gals., Final \_\_\_\_\_ Gal.

Displacement: Theoretical \_\_\_\_\_ Gal., Meas. \_\_\_\_\_ Gal.

Gallons Required to increase pressure from \_\_\_\_\_ P.S.I.G. to \_\_\_\_\_ P.S.I.G. \_\_\_\_\_ Gal.  
PRESSURE PUMP MEASUREMENT

Exposed pipe \_\_\_\_\_ ft. General Contractor \_\_\_\_\_

Fill water Temperature \_\_\_\_\_

TIME		Deadweight Pressure	TEMPERATURE OF			REMARKS
Date	Hour		Air	Pipe	Remote Earth	
11/7/87	11:55 AM	0				START PRESSURING
	12:22 PM	1200				HOLD 5 MIN, START BLEED TO ZERO
	12:45	0				AT ZERO, CHANGE RECORDER
	12:53	0				START PRESSURING
	1:04	625				SWITCH PUMP TO LOWER GEAR
	2:17	2356	65°	68°		ON TEST
	2:30	2354	65°	69°		
	2:45	2353	64°	68°		
	3:00	2352	64°	68°		
	3:15	2352	64°	68°		
	3:30	2352	64°	68°		
	3:45	2352	64°	68°		
	4:00	2352	63°	68°		
	4:15	2352	63°	68°		
	4:30	2351	63°	68°		
	4:45	2351	63°	68°		
	5:00	2351	63°	67°		
	5:15	2351	63°	67°		
	5:30	2351	63°	66°		
	5:45	2351	63°	66°		
	6:00	2351	63°	66°		
	6:15	2351	63°	66°		

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PIPE TEMP REC #6074-AIR TEMP REC #5025-PRESS. REC #3013-PRESS REC #6090-DEAD WEIGHT REC #6010

CSI Engineer

*Lucy J. Bell*

Field Approval for Pipeline Company

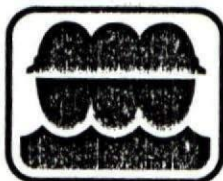
Witness 1

Insp.

*Frank Hoos*

2

Chief Insp.



A Hargett Company

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TEMPERATURE RECORDER CERTIFICATION

THE BELOW DESIGNATED TEMPERATURE RECORDER HAS BEEN CALIBRATED WITH A LOW POINT OF 32.F AND A MAXIMUM OF 150.F ACCORDING TO FACTORY SPECIFICATIONS AND ITS CALIBRATED ACCURACY IS +/- 1% OF FULL SCALE.

TEMPERATURE  
RECORDER  
CERTIFIED:

CSI # 5025  
0-150 DEGREE F  
SERIAL # 265A-009516

DATE: 11-26-86

CALIBRATED BY: *Harold Harrington*  
INSTRUMENT TECHNICIAN

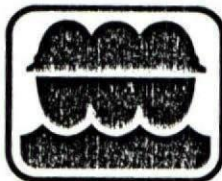
CERTIFIED BY: *Ronald J. Savoy*  
RONALD J. SAVOY, P.E.



**CSI Hydrostatic Testers, Inc.**

P. O. Box 51282    Lafayette, Louisiana 70505-1282    Phone 318/235-7567





A Hargett Company

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TEMPERATURE RECORDER CERTIFICATION

THE BELOW DESIGNATED TEMPERATURE RECORDER HAS BEEN CALIBRATED WITH A LOW POINT OF 32.F AND A MAXIMUM OF 150.F ACCORDING TO FACTORY SPECIFICATIONS AND ITS CALIBRATED ACCURACY IS +/- 1% OF FULL SCALE.

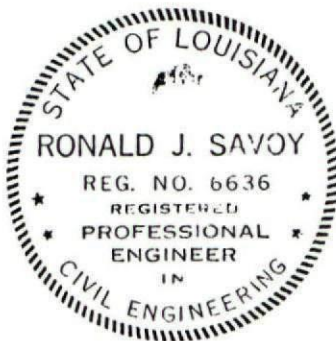
TEMPERATURE  
RECORDER  
CERTIFIED:

CSI # 6074  
0-150 DEGREE F  
SERIAL # L-00083

DATE: 11-26-86

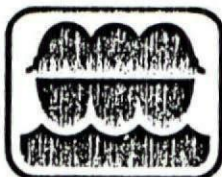
CALIBRATED BY: *Steve Harrington*  
INSTRUMENT TECHNICIAN

CERTIFIED BY: *Ronald J. Savoy*  
RONALD J. SAVOY, P.E.



**CSI Hydrostatic Testers, Inc.**

P. O. Box 51282    Lafayette, Louisiana 70505-1282    Phone 318/235-7567



A Hargett Company

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D E A D - W E I G H T   T E S T E R   C E R T I F I C A T I O N

THIS IS TO CERTIFY THAT THE BELOW DESIGNATED CHANDLER DEAD-WEIGHT TESTER WAS CHECKED AGAINST STANDARDS WHICH ARE ACCURATE & TRACEABLE TO THE NATIONAL BUREAU OF STANDARDS AND WAS FOUND TO BE CORRECT AND ACCURATE AS FOLLOWS.....

LABORATORY DEAD-WEIGHT TESTER* S/N: 13299	DEAD-WEIGHT TESTER READING (P.S.I.)	DATA FOR THE TEST INSTRUMENT BEING CERTIFIED
0	0	CSI #6010
1000	1000	S/N 10394
2000	2000	RANGE: 5,000
3000	3000	CHANDLER MODEL 2-1
4000	4000	
5000	5000	

\*CHANDLER DEAD WEIGHT TESTER S/N: 13299  
CERTIFIED BY: G.T. MICHELLI COMPANY, INC.  
TRACEABLE TO NATIONAL BUREAU OF STANDARDS  
CERTIFICATES NO: 737/228509, 737/230654

INSPECTED BY: Harold Harrison  
INSTRUMENT TECHNICIAN

DATE: 10-27-86

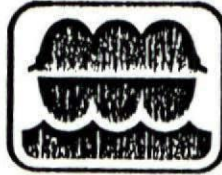
CERTIFIED BY: Ronald J. Savoy  
RONALD J. SAVOY, P.E.



**CSI Hydrostatic Testers, Inc.**

P. O. Box 51282    Lafayette, Louisiana 70505-1282    Phone 318/235-7567





A Hargett Company

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P R E S S U R E   R E C O R D E R   C E R T I F I C A T I O N

THIS IS TO CERTIFY THAT THE BELOW DESIGNATED PRESSURE RECORDER WAS CALIBRATED WITH STANDARDS WHICH ARE ACCURATE AND TRACEABLE TO THE NATIONAL BUREAU OF STANDARDS, AS FOLLOWS.....

LABORATORY

DEAD-WEIGHT  
TESTER\*  
S/N 13299

FIRST  
READING  
(P.S.I.)

FINAL  
READING  
(P.S.I.)

DATA FOR THE  
TEST INSTRUMENT  
BEING CERTIFIED

0	0	0	CSI # 5013
600	600	600	PRESSURE RECORDER
1200	1200	1200	(ONE PEN)
1800	1800	1800	S/N: 242A-008429
2400	2400	2400	RANGE: 3,000
3000	3000	3000	

\*CHANDLER DEAD WEIGHT TESTER S/N: 13299  
CERTIFIED BY: G.T. MICHELLI COMPANY, INC.

CALIBRATED BY: John Boute  
INSTRUMENT TECHNICIAN

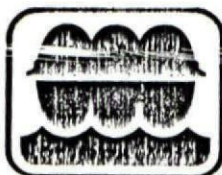
DATE: 10-26-86

CERTIFIED BY: Ronald J. Savoy  
RONALD J. SAVOY, P.E.



**CSI Hydrostatic Testers, Inc.**

P. O. Box 51282    Lafayette, Louisiana 70505-1282    Phone 318/235-7567



A Hargett Company

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P R E S S U R E   R E C O R D E R   C E R T I F I C A T I O N

THIS IS TO CERTIFY THAT THE BELOW DESIGNATED PRESSURE RECORDER WAS CALIBRATED WITH STANDARDS WHICH ARE ACCURATE AND TRACEABLE TO THE NATIONAL BUREAU OF STANDARDS, AS FOLLOWS.....

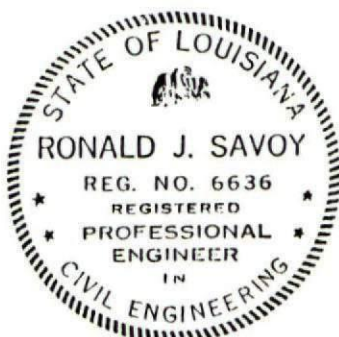
LABORATORY DEAD-WEIGHT TESTER* S/N 13299	FIRST READING (P.S.I.)	FINAL READING (P.S.I.)	DATA FOR THE TEST INSTRUMENT BEING CERTIFIED
0	0	0	CSI # 6090
600	600	600	PRESSURE RECORDER
1200	1200	1200	(ONE PEN)
1800	1800	1800	S/N: L00147
2400	2400	2400	RANGE: 3,000
3000	3000	3000	

\*CHANDLER DEAD WEIGHT TESTER S/N: 13299  
CERTIFIED BY: G.T. MICHELLI COMPANY, INC.

CALIBRATED BY: *[Signature]*  
INSTRUMENT TECHNICIAN

DATE: 9-17-86

CERTIFIED BY: *[Signature]*  
RONALD J. SAVOY, P.E.

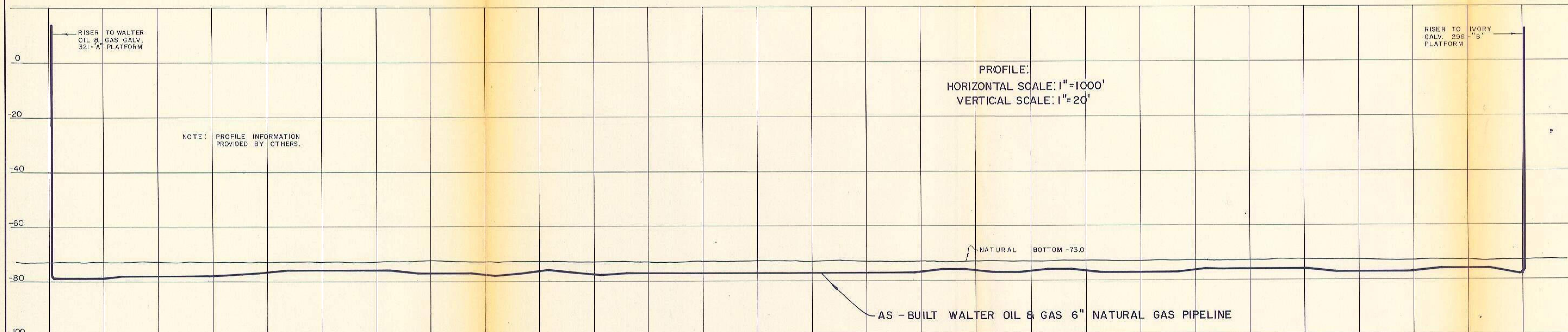
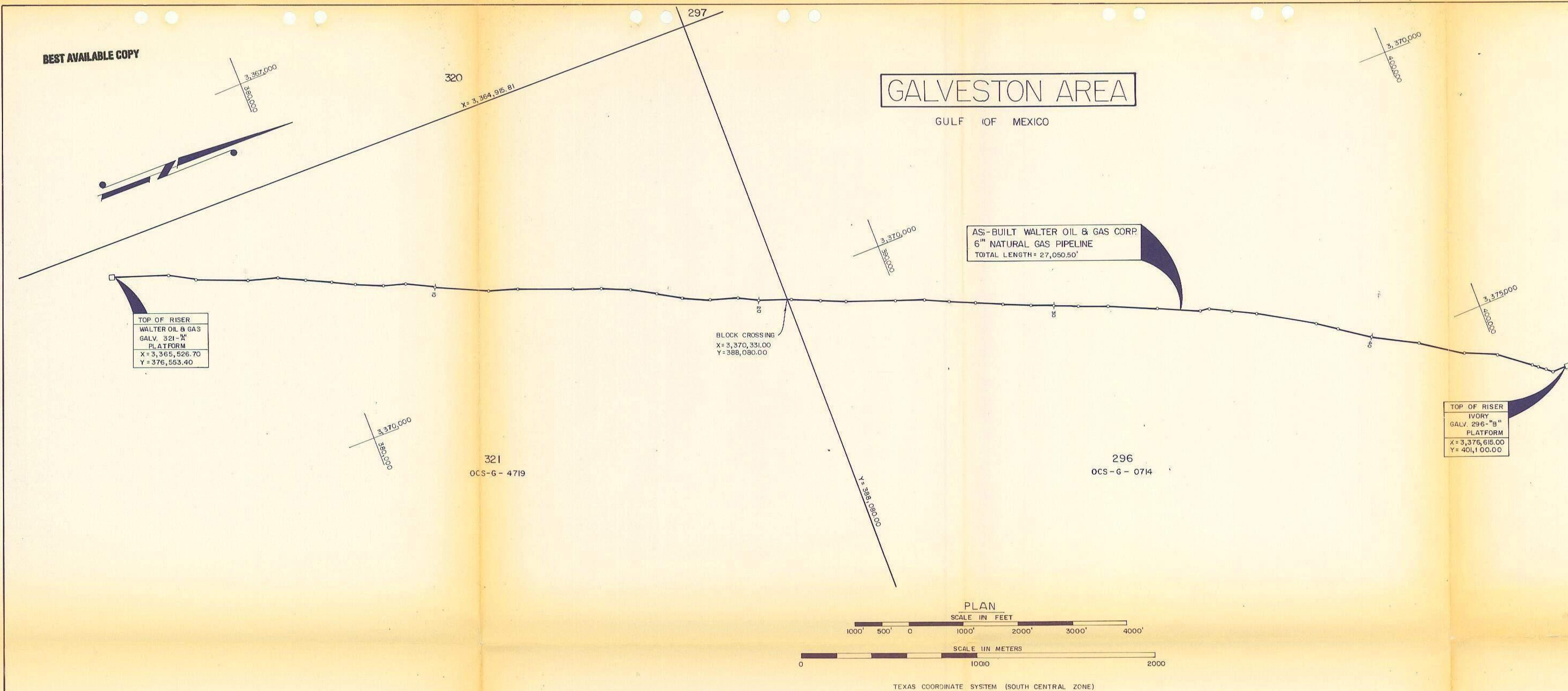


**CSI Hydrostatic Testers, Inc.**

P. O. Box 51282    Lafayette, Louisiana 70505-1282    Phone 318/235-7567



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FIX NO.	STATION NO.	"X" EASTING	"Y" NORTHING	DESCRIPTION	DIST. (FEET)	AZIMUTH DEG. MIN. SEC.
1	0+00	3,365,526.70	376,553.40	RISER: WALTER OIL & GAS GALV. 321-A PLAT.	—	—
2	10+08.74	3,365,877.04	377,499.35	AS-BUILT 6" PIPELINE	1,008.74	20° 19' 22"
3	15+16.83	3,366,106.99	377,951.30	"	507.09'	28° 57' 59"
4	24+99.22	3,366,473.12	378,863.99	"	983.39'	21° 51' 29"
5	30+23.87	3,366,604.16	379,372.02	"	524.65'	14° 27' 50"
6	35+79.76	3,366,837.90	379,876.38	"	555.89'	24° 51' 54"
7	40+40.04	3,367,050.48	380,284.64	"	460.28'	27° 30' 14"
8	44+90.67	3,367,231.60	380,697.26	"	450.63'	23° 42' 05"
9	49+97.80	3,367,415.52	381,169.86	"	507.12'	21° 15' 49"
10	54+28.48	3,367,590.17	381,563.53	"	430.68'	23° 55' 29"
11	59+36.67	3,367,806.57	382,023.35	"	508.20'	25° 12' 10"
12	63+83.49	3,368,220.47	382,984.87	"	1,046.81'	23° 17' 23"
13	75+07.79	3,368,384.72	383,482.78	"	524.31'	18° 15' 26"
14	84+98.93	3,368,745.83	384,405.79	"	991.13'	21° 22' 00"
15	90+24.21	3,368,924.74	384,899.67	"	525.28'	19° 54' 48"
16	95+79.96	3,369,124.25	385,418.37	"	555.75'	21° 02' 17"
17	100+90.68	3,369,385.48	385,857.23	"	510.72'	30° 45' 48"
18	105+78.78	3,369,616.47	386,287.21	"	488.10'	28° 14' 44"
19	110+84.71	3,369,806.78	386,755.98	"	505.93'	22° 05' 46"
20	115+87.22	3,369,990.23	387,223.81	"	502.51'	21° 24' 40"
21	119+86.62	3,370,144.75	387,592.11	"	399.40'	22° 45' 39"
22	125+82.00	3,370,357.09	388,148.33	"	595.37'	20° 53' 40"
23	131+24.30	3,370,566.34	388,648.64	"	542.30'	22° 41' 48"
24	135+93.46	3,370,744.03	389,082.84	"	469.16'	22° 15' 24"
25	145+30.37	3,371,065.09	389,963.03	"	936.91'	20° 02' 23"
26	150+43.84	3,371,233.08	390,448.24	"	513.47'	19° 05' 49"
27	155+32.30	3,371,427.35	390,896.41	"	488.46'	23° 26' 08"
28	160+06.95	3,371,626.19	391,327.41	"	474.65'	24° 45' 58"
29	164+99.00	3,371,818.43	391,780.34	"	492.05'	22° 59' 54"
30	170+19.72	3,372,023.77	392,258.87	"	520.72'	23° 13' 29"
31	174+46.86	3,372,190.47	392,652.13	"	427.14'	22° 58' 15"
32	179+10.16	3,372,364.92	393,081.34	"	463.30'	22° 07' 10"
33	184+38.12	3,372,527.83	393,583.54	"	527.96'	17° 58' 23"
34	193+60.94	3,372,913.30	394,421.99	"	922.80'	24° 41' 23"
35	201+75.15	3,373,227.48	395,173.15	"	814.22'	22° 41' 52"
36	203+25.62	3,373,255.41	395,219.79	"	151.47'	14° 30' 12"
37	207+43.26	3,373,451.92	395,692.35	"	416.64'	26° 35' 34"
38	212+06.20	3,373,665.56	396,101.92	"	461.94'	27° 32' 53"
39	223+25.52	3,374,225.43	397,072.31	"	1,120.32'	29° 58' 58"
40	227+40.86	3,374,457.38	397,416.86	"	415.34'	33° 56' 54"
41	234+06.15	3,374,802.47	397,985.64	"	665.28'	31° 14' 45"
42	242+42.35	3,375,216.41	398,712.20	"	836.21'	29° 40' 17"
43	251+20.34	3,375,707.84	399,439.77	"	877.98'	34° 02' 12"
44	257+45.62	3,375,975.46	400,004.89	"	625.29'	25° 20' 26"
45	264+02.01	3,376,371.16	400,528.59	"	556.39'	37° 04' 26"
46	265+29.95	3,376,466.06	400,614.40	"	127.94'	47° 53' 02"
47	266+92.63	3,376,533.35	400,762.50	"	162.88'	24° 25' 58"
48	268+26.49	3,376,603.90	400,876.27	"	133.86'	31° 48' 11"
49	270+50.50	3,376,615.00	401,100.00	RISER: IVORY GALV. 296-B PLAT.	224.01'	2° 50' 28"

AS-CONSTRUCTED

OCS-G 8599

**T. BAKER SMITH & SON, INC.**  
CIVIL ENGINEERS - LAND SURVEYORS  
HOUMA, LOUISIANA

TITLE: AS-BUILT  
WALTER OIL & GAS 6" NATURAL GAS PIPELINE  
GALVESTON AREA BLOCKS 296 & 321  
FOR  
WALTER OIL & GAS CORP.

DRAWN: D.L.M. SPV.  
CHKD: L.J.C. NO.  
DATE: 1/8/87 SHEET 1 OF 1

CERTIFIED CORRECT AS TO THE  
HORIZONTAL POSITION OF PIPELINE.

*Don L. McCullough*  
DON L. McCULLOUGH  
REGISTERED PUBLIC SURVEYOR NO. 3037  
STATE OF TEXAS  
T. BAKER SMITH & SON, INC.





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NOTIFICATION OF HYDROSTATIC TEST

Date: 12-31-86

1. OCS Number 8599

2. Name of Company Walter Oil + Gas

3. Size of Pipeline 6 5/8 Length \_\_\_\_\_ Miles 5.11

4. From where to where Ga lveston Area , 321 , 296  
(area, block number, and platform name)

5. Platform where hydrostatic test instruments will be set up 321

6. Contractor's Name and Barge Name or Number \_\_\_\_\_

7. Date and Time of Proposed Test 12-86 1-6-87

Name of Company Contact Kim Burkett

Telephone Number \_\_\_\_\_

~~\_\_\_\_\_~~  
~~\_\_\_\_\_~~  
MMS Employee Carol Williams



BEST AVAILABLE COPY

NOTIFICATION OF CONSTRUCTION

Date: 12-19-86

1. DCS number G 8599
2. Name of company Walter Oil & Gas Corporation
3. Name of contractor \_\_\_\_\_
4. Name or number of barge \_\_\_\_\_
5. Size and length of pipeline 6 7/8-inch Buck gas
6. From where to where BALVESTON 321 "A" to  
G A 296 "B" (area, block number, and platform)

7. Where construction begins \_\_\_\_\_  
(area and block number)

8. When barge will begin 12-23-86

9. Length of time barge will be on job \_\_\_\_\_

10. Nearest available heliport ⊙

11. Does the pipeline cross or is it in close proximity to fairways or anchorage area?

Yes \_\_\_\_\_ No \_\_\_\_\_

Where \_\_\_\_\_

Initial and terminal points: Initial: X = \_\_\_\_\_ Y = \_\_\_\_\_

Terminal: X = \_\_\_\_\_ Y = \_\_\_\_\_

Name of Company Contact Kim Burkett

Telephone Number (713) 659-1222

~~\_\_\_\_\_~~ Date \_\_\_\_\_

U.S. Coast Guard \_\_\_\_\_ Date \_\_\_\_\_

~~\_\_\_\_\_~~

~~\_\_\_\_\_~~ Employee Andrew J. Britton

**BEST AVAILABLE COPY**

DEC 18 1986

In Reply Refer To: FO-2-2  
OCS-G 8599

Galveston Area

Walter Oil & Gas Corporation

Right-of-Way

ACTION: APPLICATION APPROVED

Your application for a right-of-way 200 feet in width for the construction, operation, and maintenance of a 6 5/8-inch bulk gas pipeline, 5.11 miles in length, from Walter Oil & Gas Corporation's Platform A in Block 321, to Ivory Production Company's Platform B in Block 296, all located in Galveston Area, dated October 29, 1986, with its attachments, is hereby approved subject to the following:

1. Adhere to the requirements of Section IV.B.1. of Notice to Lessees and Operators No. 83-3 due to the proximity of existing pipelines and cables to the proposed pipeline in Block 296, Galveston Area.

2. Prior to construction, buoy the following unidentified magnetic anomalies and avoid during pipeline installation activities:

<u>Line No.</u>	<u>Shot Point No.</u>	<u>Intensity (gammas)</u>
98	60	15
99	60	130
100	60	1000
101	60	133
102	60	15
1002	5	325
1003	5	70
98	5	50
99	5	600
100	5	1000
101	5	250
1000	5	1100
1001	4	750
101	2	500
101	18	750
102	18	35

Button 12-17-86  
Kelly 12/17/86  
Stuffer 12/17/86  
CO 12/18



3. The following magnetic anomaly and side-scan sonar contacts shall be buoyed prior to construction and avoided during pipeline installation activities:

<u>Line No.</u>	<u>Shot Point No.</u>	<u>Intensity (gammas)</u>	<u>Avoidance (feet)</u>
97	1 + 275	N/A	250
97	28 + 350	20	250
97	30 + 300	N/A	250
99	59 + 150	N/A	250

**(Orig. Sgd.) J. Rogers Percy**

J. Rogers Percy  
Regional Director

bcc: P/L OCS-G 8599 (FO-2-2)  
K. Faust (FO-2-2)  
ORD Reading File  
LE-5  
LE-3-1  
FO-7

ABritton:mcs:12/17/86:LEXITYPE Disk 6

UNITED STATES GOVERNMENT  
MEMORANDUM

**BEST AVAILABLE COPY**

December 17, 1986

To: Regional Supervisor, Field Operations, GOM OCS Region (FO)  
From: Regional Supervisor, Leasing and Environment, GOM OCS Region (LE)  
Subject: National Environmental Policy Act (NEPA) Review for Pipeline  
Right-of-Way Application OCS-G 8599

Action Submitted: November 6, 1986

Action Commencement: December 20, 1986

Walter Oil and Gas Corporation  
Pipeline Right-of-Way Application  
Lease OCS-G 8599, Galveston Blocks 321 and 296

Walter Oil and Gas Corporation proposes to construct one 6-inch O.D. natural gas, condensate and water pipeline on a 200-foot wide right-of-way from Platform A in Block 321 to Ivory Production Company's B platform in Block 296, all in Galveston Area, offshore Texas. Line length is 26,981 feet (5.11 miles).

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

1. The pipeline(s) identified below 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>	<u>Area</u>
Kerr McGee	4	296	Galveston
Numerous	Numerous	296	Galveston
Cable	-	296	Galveston

2. Locations of the following magnetic anomalies shall be buoyed in accordance with NTL 83-3 prior to construction and avoided during pipeline installation and when the applicant is installing lay barge anchors:

<u>Line No.</u>	<u>Shot Point No.</u>	<u>Amplitude (gammas)</u>
98	60	15
99	60	130
100	60	1000
101	60	133
102	60	15
1002	5	325
1003	5	70
98	5	50





# BEST AVAILABLE COPY

<u>Line No.</u>	<u>Shot Point No.</u>	<u>Amplitude (gammas)</u>
99	5	600
100	5	1000
101	5	250
1000	5	1100
1001	4	750
101	2	500
101	18	750
102	18	35
97	3	8
97	7	30
97	9	70
97	10	10
98	2	30
98	3	75
98	4	22
98	6	20
98	7	70
98	14	12
99	13	18
99	16	13
100	2	210
100	7	190
100	17	30
100	18	20
101	4	25
101	6	30
101	8	75
102	7	17
102	9	17
102	10	30
103	12	45
1001	3	110
1001	5	40
97	28	20

3. Locations of the following side scan sonar contacts shall be buoyed in accordance with NTL 83-3 prior to construction and avoided during pipeline installation and when the applicant is installing lay barge anchors:

<u>Line No.</u>	<u>Shot Point No.</u>	<u>Remarks</u>	<u>Block</u>
97	1	75 m (250 ft)	296
97	30	75 m (250 ft)	296
99	59	75 m (250 ft)	321

*Larry Brashin for*  
H. P. Sieverding

cc: Pipeline File OCS-G 8599 (LE-5)

ELandry:gcw

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Date: NOVEMBER 12, 1986

To: Right-of-Way Pipeline File OCS-G 8599 <sup>FO</sup>~~(EE)~~

Through: Supervisor, Platform/Pipeline Unit, Plans, Platform and Pipeline  
Section, Field Operations, Gulf of Mexico OCS Region (FO-2-2)

From: Petroleum Engineer, Platform/Pipeline Unit, Plans, Platform and  
Pipeline Section, Field Operations, Gulf of Mexico OCS Region (FO-2-2)

Subject: Pipeline Right-of-Way Application, Technical Review, Walter  
Oil & Gas Corporation OCS-G 8599

Size (inches)	Length (feet)	Service	From	To
<u>6 5/8</u>	<u>26,981</u>	<u>BLKG</u>	<u>Platform A</u>	<u>Platform B</u>
			<u>Block 321</u>	<u>Block 296</u>
			<u>GALVESTON AREA</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, with sandbags, or other acceptable method.
- \_\_\_\_\_ 5. \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

A. Britton

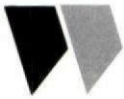
A. Britton

cc: 1502-01 OCS-G 8599 (w/orig appln) (Seg. 7980) (FO-2-2)

OPS-5 (w/cy of plat) ✓

ABritton:jj:LEXITYPE Disk 6





WALTER OIL & GAS CORPORATION

005-68599

October 29, 1986

Mr. Daniel Bourgeois  
Regional Supervisor  
Office of Field Operations  
U. S. Department of the Interior  
Minerals Management Service  
1420 South Clearview Parkway  
New Orleans, Louisiana 70123-2394



Attention: Mr. Autry Britton

Re: Application for Pipeline Right-of-Way for Walter Oil & Gas Corporation's Proposed 6-Inch O.D. Natural Gas, Condensate and Water Pipeline In and/or Through Blocks 321 and 296, Galveston Area, Gulf of Mexico, Federal Waters Offshore, Texas

Gentlemen:

Pursuant to the authority granted in Section 5(e) of the Outer Continental Shelf Lands Act (67 Stat. 462) (43 U.S.C. 1331), as amended (92 Stat. 629), and in compliance with the regulations contained in Title 30 CFR, Part 256, Subpart N, Walter Oil & Gas Corporation is filing this application in triplicate for a right-of-way two hundred feet (200') in width for the construction, maintenance and operation of a 6-inch O.D. natural gas, condensate and water pipeline in the Galveston Area, Gulf of Mexico. Walter Oil & Gas Corporation agrees that said right-of-way, if approved, will be subject to the terms and conditions of said regulations.

In support of our application and for your review and use the following maps, drawings and documents have been enclosed herewith and made a part hereof:

1. Index or Vicinity Map, Oceanonics Drawing No. 86M177.15-A, Sheet 1 of 2 (six copies enclosed);
2. Profile and Route Map, Oceanonics Drawing No. 86M177.15-A, Sheet 2 of 2 (six copies enclosed);
3. Pipeline Prelay and Cultural Resources Report (three copies enclosed);
4. Schematic, Sketch No. 1 (six copies enclosed); and
5. Pipe Specifications and General Information, Exhibit "B" (six copies enclosed).

The 6-inch O.D. pipeline will be used to transport natural gas, condensate and water from Walter Oil & Gas Corporation's "A" Platform in Block 321, Galveston Area (OCS-G 4719) to Blue Dolphin Pipeline Company's 20-inch natural gas and condensate pipeline (OCS-G 1381) with the tie-in point being Ivory Production Company's "B" Platform in Block 296, Galveston Area (OCS-G 0714). The pipeline will depart Walter's "A" Platform, Block 321, in a northeasterly direction and proceed approximately 26,981' (5.11 miles) to Ivory's "B" Platform, Block 296, where the pipeline will tie-in to Blue Dolphin's 20-inch natural gas and condensate pipeline, all being located in the Gulf of Mexico, Federal Waters Offshore, Texas. The proposed construction commencement date is December 20, 1986, with the time required to lay the pipeline being estimated at two (2) weeks with an overall completion of project time being estimated at one (1) month.

This application (and any amendments made hereto) is made with our full knowledge and concurrence with the OCS Lands Act (43 U.S.C. 1331, et seq.), as amended (P.L. 95-372), including the following: Sec. 5(e) addressing pipeline rights-of-way, requirements of the Federal Energy Regulatory Commission relating to notice of hearing, transportation and purchase of oil and gas without discrimination; Sec. 5(f)(1) addressing operation of pipelines in accordance with competitive principles, including open and non-discriminatory 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. 5(e) addressing the assuring of maximum environmental protection, including the safest practices for pipeline installation; and Sec. 5(f)(1)(B) which may require expansion of throughput capacity of any pipeline except for the Gulf of Mexico or the Santa Barbara Channel.

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

In accordance with applicable regulations, we have delivered a copy of the application and attachments thereto by certified mail, return receipt requested, to each lessee or right-of-way or easement holder whose lease, right-of-way or easement is so affected. A list of such lessees or right-of-way or easement holders is attached (see Exhibit "A") 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 we cannot obtain completed return receipt cards, a letter from the lessee, right-of-way or easement holder expressing no objection to the proposed project will be obtained and forwarded to your office. The proposed route of the right-of-way does not adjoin or subsequently cross state submerged lands.

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 4, 1984 and revised September, 1984.



Additional design criteria data is as follows:

1. Water depth along the route of the proposed pipeline and pipeline relationship to natural bottom is set forth on the attached Oceanonics Drawing No. 86M177.15-A, Sheet 2 of 2.
2. The description of the pipe and coating is as follows:
  - a. Line Pipe: 6.625" O.D. X .432" W.T. API 5L Grade B; bare weight = 28.57#/ft. coated with 14 mils of Scotchkote 205 fusion bonded epoxy. Specific gravity in seawater (empty) = 1.86. Welded joints will be protected with heat shrinkable wrap-around pipe sleeves.
  - b. Riser Pipe: 6.625" O.D. X .432" W.T. API 5L Grade B; bare weight = 28.57#/ft. (at Ivory's "B" Platform, Block 296); and 4.5" O.D. X .671" W.T. API 5L Grade B; bare weight = 27.50#/ft. (at Walter's "A" Platform, Block 321) coated with 14 mils of Scotchkote 205 fusion bonded epoxy. Welded joints will be protected with heat shrinkable wrap-around pipe sleeves.
  - c. There will be no subsea valves.
  - d. Internal Coating: The analysis of transported products will be monitored and preventative measures such as pigging and/or inhibiting will be employed as necessary.
3. Valves and Flanges: Above and below water valves and flanges will be ANSI 600# Class with a designed working pressure of 1440 psig at Ivory's "B" Platform, Block 296, and ANSI 2500# Class with a designed working pressure of 4000 psig at Walter's "A" Platform, Block 321.
4. The specific gravity of the product being transported is anticipated to be .6 (Air = 1.0), T = 75° F.
5. Weight, type and spacing of anodes to be used as corrosion protection are shown on attached Sketch No. 1. The life expectancy of the proposed pipeline is twenty (20) years. The sacrificial 35# anodes are designed for twenty (20) year life and are to be replaced as necessary to extend the life of the pipeline.
6. The design of the proposed pipeline is in accordance with Department of Interior regulations.
7. Maximum Allowable Operating Pressure (MAOP) = 1440 psig.  
Maximum Capacity: Design Capacity = 25 MMCF/D and 1250 BC/D.  
Maximum Operating Pressure: High Sensor Setting = 1065 psi.  
Maximum Operating Pressure: Low Sensor Setting = 850 psi.
  - a. Calculations: see enclosed Exhibit "B".

8. The producer's facilities are rated for 1440 psig working pressure.
9. The production equipment will be designed for 1440 psig.
10. Originally signed copy of Non-Discrimination in Employment Stipulation is attached to each copy of the application.
11. Company contact on technical points or other information:  
  
Jack Horton, Engineer  
Walter Oil & Gas Corporation  
240 Main Building  
1212 Main Street  
Houston, Texas 77002  
Telephone: 713/659-1222
12. Draft/Check No. 31916 in the amount of \$190.00 of which \$100.00 covers the application fee and \$90.00 covers the first year's rental on 5.11 miles of right-of-way is also enclosed.

Walter Oil & Gas Corporation hereby agrees to keep open at all reasonable times for inspection by the Minerals Management Service the area covered by this right-of-way and all improvements, structures and fixtures thereon and all records relative to the design, construction, operations, maintenance and repairs, or investigations on or with regard to such area.

Please refer to your New Orleans Miscellaneous No. 730 for a copy of a resolution approved by the Board of Directors authorizing the undersigned to sign for and on behalf of Walter Oil & Gas Corporation.

If the above information meets with your approval, we would appreciate your rendering the necessary decision for the right-of-way at your earliest convenience. Inquiries concerning this application should be directed to Ms. Kim Burkett at 713/659-1222.

Sincerely,

WALTER OIL & GAS CORPORATION



J. C. Walter, III  
Executive Vice President

JCW, III:kb  
Enclosures



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
MINERALS MANAGEMENT SERVICE


NONDISCRIMINATION IN EMPLOYMENT

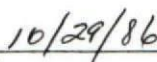
As a condition precedent to the approval of the granting of the subject pipeline right-of-way, the grantee, Walter Oil & Gas Corporation, hereby agrees and consents to the following stipulation which is to be incorporated into the application for said right-of-way.

During the performance of this 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 grant by reference.

WALTER OIL & GAS CORPORATION

  
\_\_\_\_\_  
J.C. Walter, III  
Executive Vice President

  
\_\_\_\_\_  
Date

cc: Lessees and Right-of-Way Holders as indicated on  
Attachment "A", all with copy of Attachments and Enclosures

Chevron U.S.A., Inc.  
Attn: George E. Jones  
935 Gravier Street  
New Orleans, Louisiana 70112  
(Certified Mail No. P560141386)

Tenneco Oil Company  
Attn: Steve King  
P. O. Box 39100  
Lafayette, Louisiana 70503  
(Certified Mail No. P560141387)

Ivory Production Company  
601 Jefferson, Suite 2390  
Houston, Texas 77002  
(Certified Mail No. P560141388)

Kerr-McGee Pipeline Corp.  
Attn: Ivan Geddie  
P. O. Box 25861  
Oklahoma City, Oklahoma 73125  
(Certified Mail No. P560141389)

Blue Dolphin Pipeline Company  
Attn: William M. Jeter, III  
601 Jefferson, Suite 2390  
Houston, Texas 77002  
(Certified Mail No. P560141390)



## EXHIBIT "A"

The following Lessees and Right-of-Way holders on even date with this application were furnished a copy of this application by Certified Mail, Return Receipt Requested (Note: The status of blocks listed below was current as of October 28, 1986, per Ms. Mary Holmes and Ms. Evie Giambrone, MMS, in telephone conversation with Ms. Kim Burkett, WO&G).

### GALVESTON AREA

#### Block 321

Chevron U.S.A., Inc. (50%)	OCS-G 4719	Oil & Gas Lease
Tenneco Oil Company (50%)	OCS-G 4719	Oil & Gas Lease
Kerr-McGee Pipeline Corp.	OCS-G 8543	Pipeline R/W

#### Block 296

Ivory Production Company (100%)	OCS-G 0714	Oil & Gas Lease
Kerr-McGee Pipeline Corp.	OCS-G 8543	Pipeline R/W
Blue Dolphin Pipeline Co.	OCS-G 1381	Pipeline R/W

## EXHIBIT "B"

### GENERAL INFORMATION & CALCULATIONS

1. Water depth along the proposed pipeline route and in relationship to the natural bottom is set forth on the attached Drawing No. 86M177.15-A, Sheet 2 of 2. The water depth is (-) 71 feet to (-) 67 feet MSL.
2. The description of the pipeline and coating is as follows:
  - a. Lipe Pipe: 6.625" O.D. X .432" W.T. API 5L Grade B seamless. Bare weight = 28.57# per foot. Coated with 14 mils of Scotchkote 205 fusion bonded epoxy. Specific gravity in seawater (empty) = 1.87. Welded joints will be protected with heat shrinkable sleeves.
  - b. Riser Pipe (at Walter's "A" Platform, Block 321): 4.5" O.D. X .674" W.T. API 5L Grade B seamless. Bare weight = 27.50# per foot. Coated with 14 mils of Scotchkote 205 fusion bonded epoxy. Welded joints will be protected with heat shrinkable pipe sleeves.
  - c. Riser Pipe (at Ivory's "B" Platform, Block 296): 6.625" O.D. X .432" W.T. API 5L Grade B seamless. Bare weight = 28.57# per foot. Coated with 14 mils of Scotchkote 205 fusion bonded epoxy. Welded joints will be protected with heat shrinkable pipe sleeves.
  - d. There will be no subsea valves.
  - e. Internal Coating: The analysis of transported products will be monitored and preventative measures will be employed as necessary.
3. The proposed pipeline is approximately 26,981 feet (5.11 miles) long. This does not include the +/- 85 feet of riser piping at each platform. The pipeline will transport natural gas, condensate and water.
4. Valves and Flanges (at Walter's "A" Platform, Block 321): Above and below water valves and flanges will be 600# ANSI Class with a designed working pressure of 4000 psig.
5. Valves and Flanges (at Ivory's "B" Platform, Block 296): Above and below water valves and flanges will be 600# ANSI Class with a designed working pressure of 1440 psig.
6. The design of the proposed pipeline is in accordance with Department of Interior regulations.
7. The cathodic protection system for the pipeline will use Galvalum III or Sealloy 150 tapered semi-cylindrical bracelet anodes. Calculations are as follows:
  - a. Anticipated line life is 20 years.
  - b. Assumed maximum of 2% bare pipe.



c. Current 5 MA/sq.ft.

d. 9.6#/amp year.

e. Anode spacing calculations:

$$\begin{aligned}\text{Area/mile} &= 5280 \text{ ft./mi.} \times 3.14 \times (6.625)/12 \text{ ft.} \\ &= 9157.7 \text{ sq.ft./mi.}\end{aligned}$$

$$\begin{aligned}\text{Amps} &= 9157.7 \text{ sq.ft./mi.} \times .02 \times .005 \text{ A/sq.ft.} \\ &= .916 \text{ amps/mi.}\end{aligned}$$

$$\text{Line life} = .916 \text{ amps/mi.} \times 20 = 18.36 \text{ amp yr./mi.}$$

$$\begin{aligned}\text{\#/mile} &= 18.36 \text{ amp yr./mi.} \times 9.6\text{\#/amp yr.} \\ &= 175.8\text{\#/mile}\end{aligned}$$

$$\text{Anode spacing} = (175.8\text{\#/mi.})/35\# = 5.02 \text{ mi., } 1051 \text{ ft.}$$

Use one (1) 35# every 500 feet.

8. The design pressure for the line pipe and riser:

a. Riser (at Walter's "A" Platform, Block 321):

$$t = PD/2S$$

$$= 1440 \times 4.5/2 \times 21,000$$

$$= .154 + 1/16" \text{ C.A.}$$

$$= .217$$

$$\begin{aligned}P &= \text{internal design} \\ &\text{pressure} = 1440 \text{ psig}\end{aligned}$$

$$t = \text{wall thickness, inches}$$

$$S = \text{SMYS} \times .6 = 21,000$$

$$\begin{aligned}D &= \text{nominal outside} \\ &\text{diameter} = 4.5''\end{aligned}$$

Use 4.5" O.D. X .674" W.T. API 5L Grade B seamless.

Hydrostatic test pressure:

In accordance with API RP 14E

$$\begin{aligned}\text{HTP} &= 1.5 \times \text{MAOP} \\ &= 1.5 \times 1440 = 2160 \text{ psig}\end{aligned}$$

b. Riser (at Ivory's "B" Platform, Block 296):

$$t = PD/2S$$

$$= 1440 \times 6.625/2 \times 21,000$$

$$= .227 + 1/16" \text{ C.A.}$$

$$= .290$$

$$\begin{aligned}P &= \text{internal design} \\ &\text{pressure} = 1440 \text{ psig}\end{aligned}$$

$$t = \text{wall thickness, inches}$$

$$S = \text{SMYS} \times .6 = 21,000$$

$$\begin{aligned}D &= \text{nominal outside} \\ &\text{diameter} = 6.625''\end{aligned}$$

Use 6.625" O.D. X .432" W.T. API 5L Grade B seamless.

Hydrostatic test pressure:

In accordance with API RP 14E

$$\begin{aligned} \text{HTP} &= 1.5 \times \text{MAOP} \\ &= 1.5 \times 1440 = 2160 \text{ psig} \end{aligned}$$

c. Line Pipe:

$$\begin{aligned} t &= PD/2S & P &= \text{internal design pressure} = 1440 \text{ psig} \\ &= 1440 \times 6.625/2 \times 25,200 & t &= \text{wall thickness, inches} \\ &= .189 + 1/16" \text{ C.A.} & S &= \text{SMYS} \times .72 = 25,200 \\ &= .252 & D &= \text{nominal outside diameter} = 6.625" \end{aligned}$$

Use 6.625" O.D. X .432" W.T. API 5L Grade B seamless.

Hydrostatic test pressure:

In accordance with API RP 1111

$$\begin{aligned} \text{HTP} &= 1.25 \times \text{MAOP} + \text{external pressure} \\ &= 1.25 \times 1440 + 72 \times (1.02)/2.31 \\ &= 1832 \text{ psig (use 2160 psig - same as riser)} \end{aligned}$$

9. The hydrostatic test will be conducted in accordance with applicable regulations. Test duration for the risers (at Walter's "A" Platform, Block 321 and Ivory's "B" Platform, Block 296) and the line pipe will be eight (8) hours. The test medium will be inhibited seawater. The test pressure is less than 90% of the hoop stress using the steel's SMYS.
10. The specific gravity of the line pipe was calculated as follows:  
  
The line pipe weighs 28.57 lbs./LF  
  
The pipe displaces  $D^2/4 \times 12/1728 \times 62.4 \times 1.02 = 15.23$  lbs. water/ft.  
  
Specific gravity flowline =  $28.57/15.23 = 1.87$   
  
The weight of coatings, anodes and other materials was not considered in these calculations.
11. The design capacity of the pipeline is approximately 25 MMCFD and 1250 bbls. condensate.
12. The proposed pipeline will tie-in to Blue Dolphin Pipeline Company's 20-inch pipeline at Ivory Production Company's "B" Platform, Block 296, Galveston Area.



13. Overpressuring of the pipeline shall be prevented by two methods. First, the platform shall have relief valves installed on the pressure sources which are set at or below the maximum rated pipeline pressure. Second, the platform shall have both high and low limits on all pressure monitoring. High limits shall be set no higher than 5% below the relief valve setting. Low limits shall be set no lower than 10% below the operating pressure. The effect of any pressure exceeding either limit will be the automatic and orderly shutdown of all pressure sources on the platform.

## PIPELINE SUMMARY

1. Line Pipe Specifications:

<u>O.D.</u>	<u>W.T.</u>	<u>Grade</u>	<u>Length</u>	<u>MAOP</u>
6.625"	.432"	API 5L B	26,981'	1440 psig

2. Riser Pipe Specifications (at Walter's "A" Platform, Block 321):

<u>O.D.</u>	<u>W.T.</u>	<u>Grade</u>	<u>Length</u>	<u>MAOP</u>
4.5"	.674"	API 5L B	86'	1440 psig

3. Riser Pipe Specifications (at Ivory's "B" Platform, Block 296):

<u>O.D.</u>	<u>W.T.</u>	<u>Grade</u>	<u>Length</u>	<u>MAOP</u>
6.625"	.432"	API 5L B	82'	1440 psig

4. Line Pipe:

Thin film epoxy.

5. Existing Blue Dolphin Pipeline Company:

<u>O.D.</u>	<u>W.T.</u>	<u>Grade</u>	<u>MAOP</u>	<u>MOP</u>
20"	.500"	X-52	1870 psig	1150 psig

6. Name of Product:

Natural gas, condensate and water

7. Class Location:

Class I

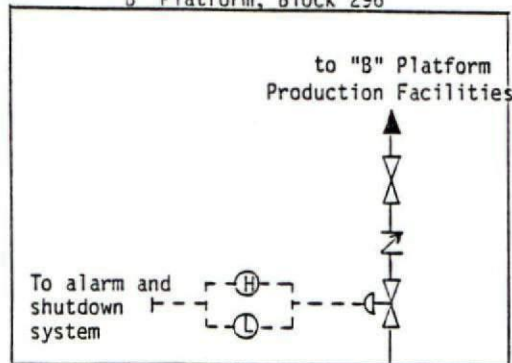
8. Governing Code:

Department of Interior regulations



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Ivory Production Company  
"B" Platform, Block 296

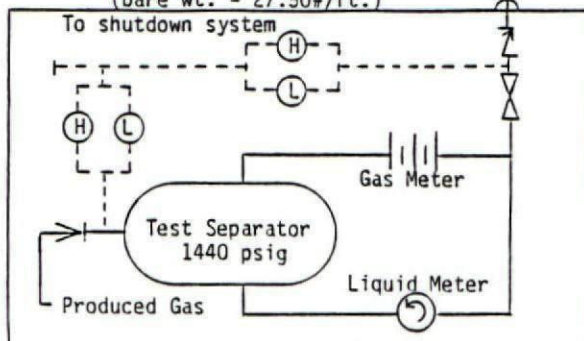


Riser Pipe (at Ivory's "B" Platform)  
6.625" O.D. X .432" W.T. API 5L  
Grade B smls with epoxy coating  
(bare wt. = 28.57#/ft.)

Line Pipe (A)  
6.625" O.D. X .432" W.T. API 5L  
Grade B smls with epoxy coating  
(bare wt. = 28.57#/ft.)

B = Sacrificial Galvalum III Anodes  
35# each, spacing to be a  
maximum of 500 feet.

Riser Pipe (at Walter's "A" Platform)  
4.5" O.D. X .674" W.T. API 5L  
Grade B smls with epoxy coating  
(bare wt. = 27.50#/ft.)



Walter Oil & Gas Corporation  
"A" Platform, Block 321

## GENERAL NOTES

1. Walter Oil & Gas pipeline complies with Department of Interior regulations.
2. Walter Oil & Gas pipeline complies with API RP 1111 Regulations.
3. Walter Oil & Gas facilities comply with API RP 14E Regulations.
4. High pressure sensor on line will be set at 1065 psig.
5. Low pressure sensor on line will be set at 850 psig.
6. Design pressure of the pipeline is 1440 psig.
7. All valves will be 600# ANSI Class.

REGISTERED PROFESSIONAL ENGINEER  
STATE OF TEXAS NO. 20710

*Gordon Talk*  
Gordon Talk

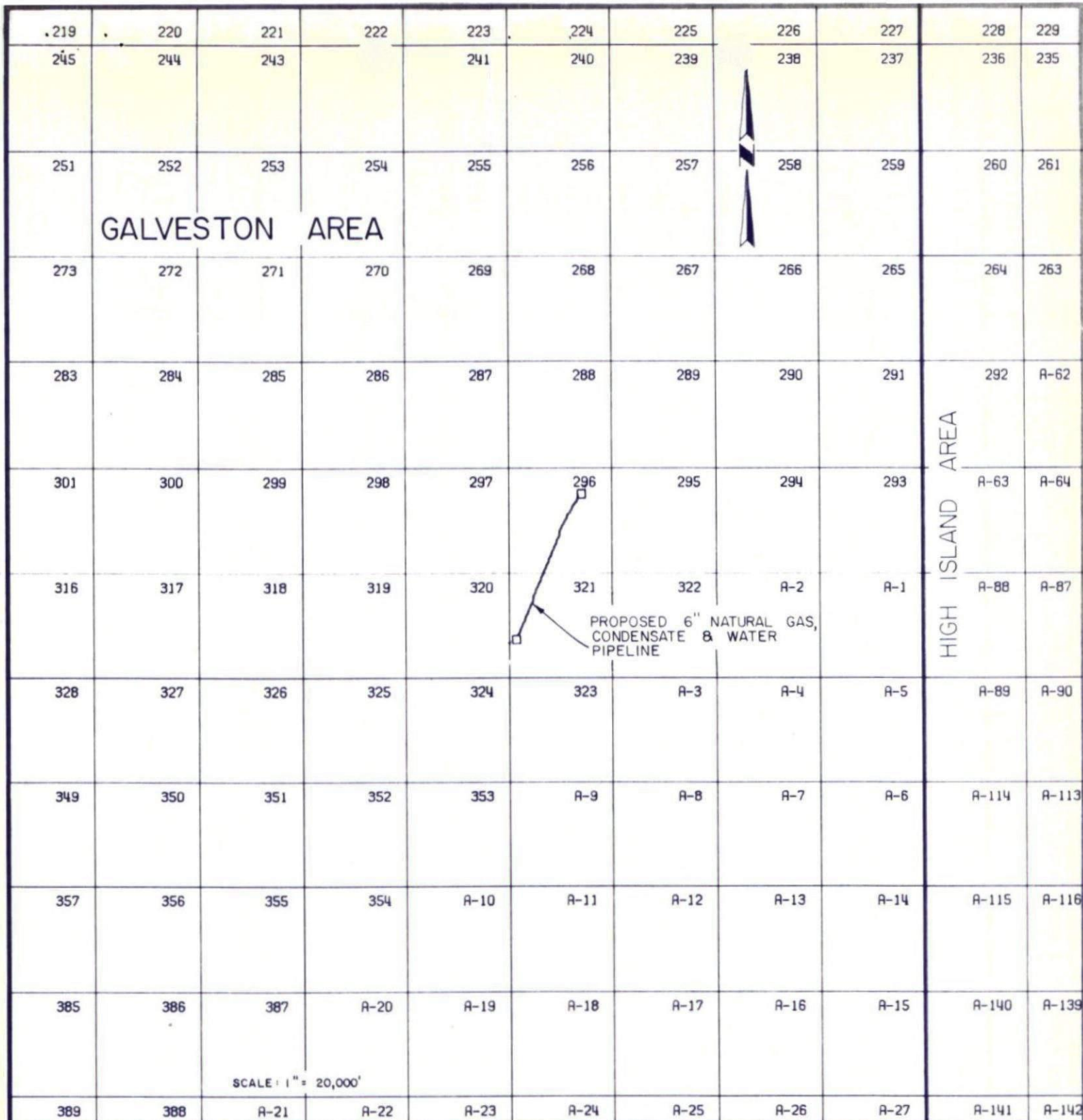


WALTER OIL & GAS CORPORATION

SCHEMATIC FOR 6.625" O.D. NATURAL GAS,  
CONDENSATE & WATER SALES PIPELINE

GALVESTON AREA, BLOCK 321 TO GALVESTON  
AREA, BLOCK 296, GULF OF MEXICO

DRAWING NO.: SKETCH NO. 1 10/29/85



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**OCEANONICS**

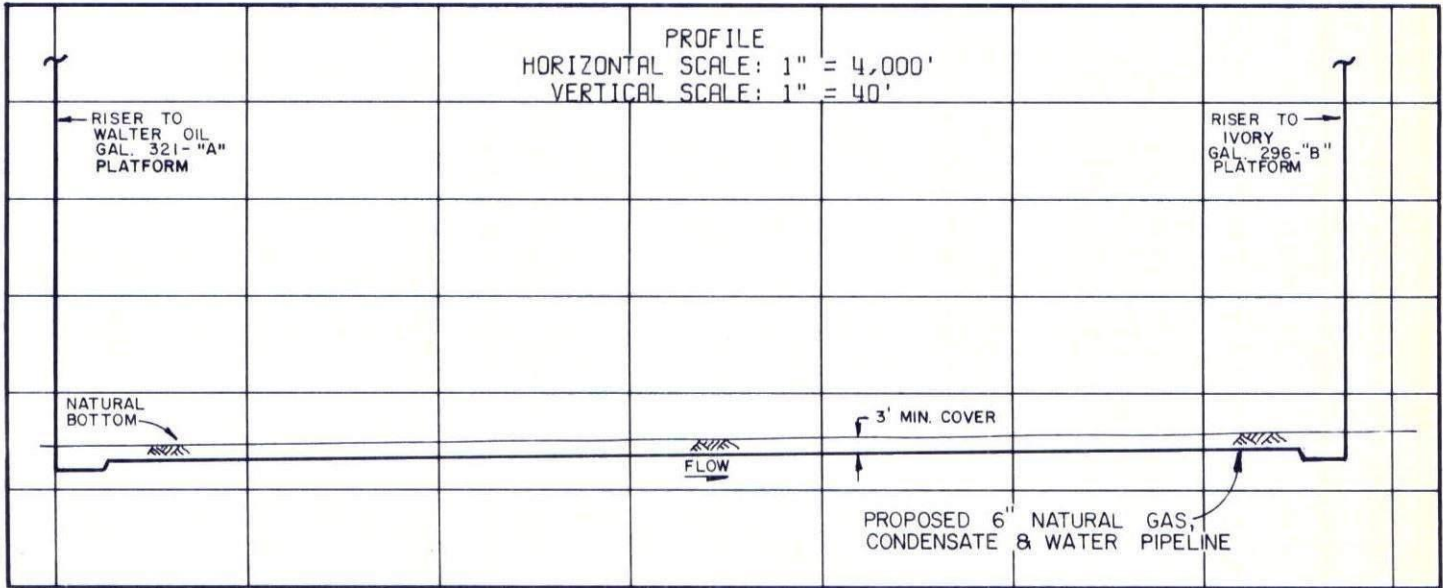
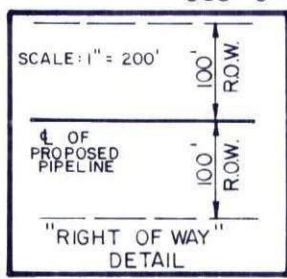
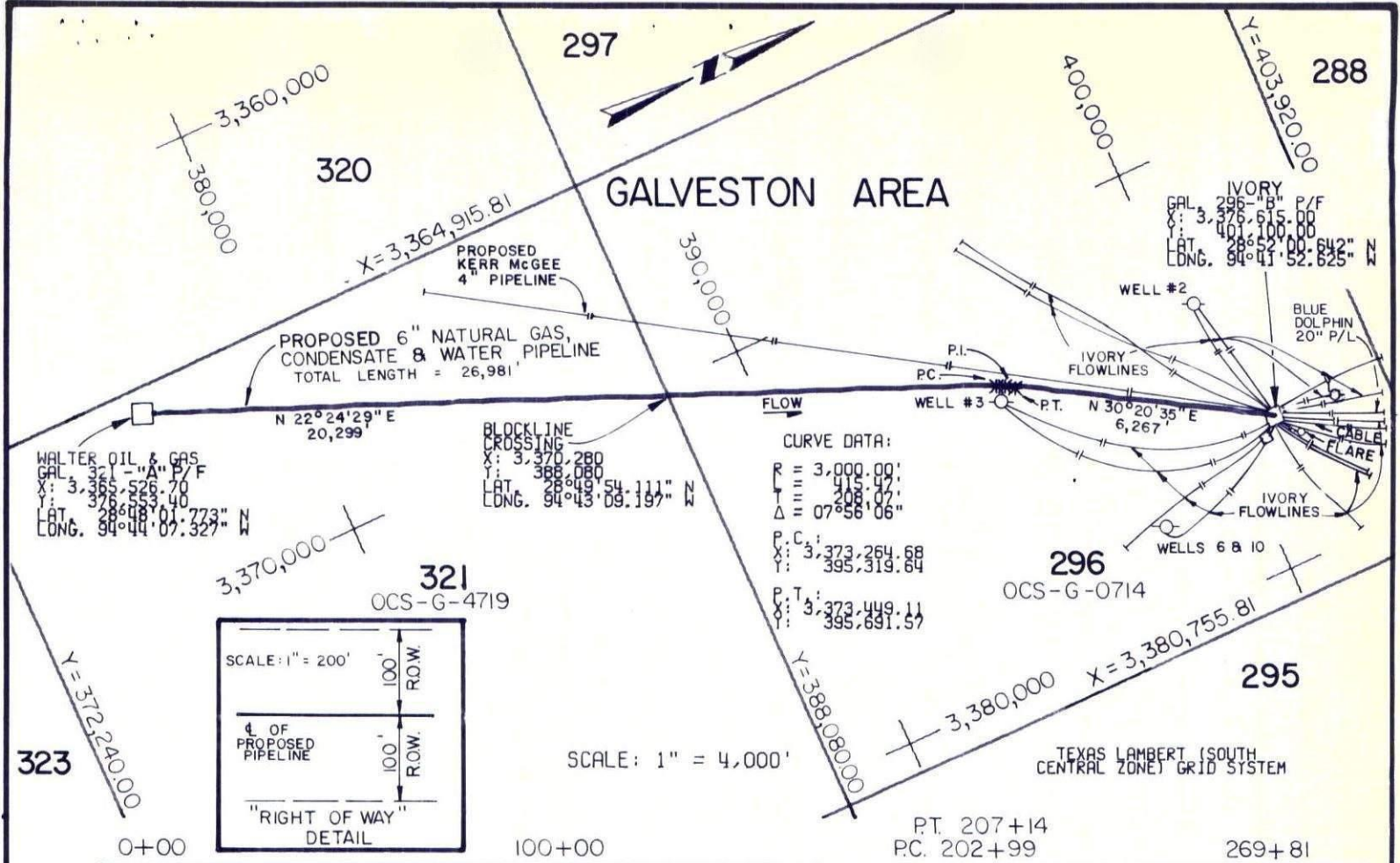
VICINITY MAP  
FOR  
WALTER OIL & GAS CORPORATION  
GALVESTON AREA  
OFFSHORE TEXAS

REVISED 10/21/86

NO. 86MI77.15 - A  
SH. 1 OF 2

10/16/86





THE DESIGN CHARACTERISTICS ARE IN COMPLIANCE WITH D.O.T. REGULATIONS.

**BEST AVAILABLE COPY**

*Jack North*  
AREA ENGINEER  
I HEREBY CERTIFY THAT THE ABOVE PROPOSED ROUTE IS CORRECT.

*M. Carnie*  
J. TREVOR CARNEGIE  
REGISTERED LAND SURVEYOR NO. 4043  
STATE OF TEXAS  
OCEANONICS, INC.

REVISED 10/21/86

<b>OCEANONICS</b>	
PIPELINE PERMIT PLAT FOR WALTER OIL & GAS CORPORATION GALVESTON AREA - BLOCKS 321 - 296 OFFSHORE TEXAS	
NO. 86MI77.15-A SH. 2 OF 2	10/16/86



PIPELINE RIGHT-OF-WAY APPLICATION "ENGINEERING CHECKLIST"

MINERALS MANAGEMENT SERVICE  
GOM REGIONAL OFFICE

Date: 11-7-86

OCSG 8599

As Built  
27,051'  
or  
5.12 mi.

- A. Description of pipeline and location of proposed route (i.e., size of pipe, product to be transported, from where to where, platform number, name, block number, area, and distance in feet and miles):

for a 658-inch Bulk Gas Pipeline, 26,981 feet  
or 5.11 miles in length from Walter Oil & Gas Corporation's Platform A  
in Block 321, to Ivory Production Company's Platform B in  
Block 296, all located in Galveston Area

- B. Safety Flow Schematic - Verify that the information shown on the safety flow schematic diagram contains the following:

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

a. source (i.e., name) Test Separator

b. design working pressure 1,440 PSIG

c. high-low pressure sensor settings high = 1065 PSIG; Low = 850 PSIG

- ✓ 2. "ANSI" ratings of all valves, flanges, and fittings between the source and the connecting pipeline are shown.

3. Pressure relief valves, where applicable, are shown with the setting set no higher than the maximum working pressure (MWP) of the vessel.

- N/A 4. If the maximum input source pressure is greater than the maximum allowable operating pressure (MAOP) of the pipeline, redundant safety equipment is required.

- ✓ 5. MAOP of proposed pipeline does not exceed MAOP of connecting pipeline.

- ✓ 6. The pipeline leaving the platform receiving production from the platform is equipped with high-low pressure sensors to directly or indirectly shut-in the well or wells on the platform.

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

8. 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-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.



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- ✓ 9. The pipeline boarding the platform/pipeline is equipped with a check valve.
- ✓ 10. The pipeline leaving the platform is equipped with a check valve.
- ✓ 11. The high-low pressure sensors on the departing pipeline is located upstream of the check valve.
- N/A 12. Where applicable, high-low sensors are located downstream of the back pressure regulator.
- ✓ 13. If there is liquid injection into the line, are pumps associated with the injection? (Yes or No) NO
- ✓ 14. Direction of flow indicated.
- ✓ 15. Pipe specifications (i.e., size, grade, weight, and wall thickness).
- ✓ 16. Total length of proposed pipeline (feet and miles).
- N/A 17. MAOP of connecting pipeline.
- ✓ 18. Statement that design meets or exceeds DOT Regulations 192 or 195, as applicable, and/or applicable OCS orders, registered engineer's seal, registration number, date, and signature.
- ✓ 19. Area and block number of proposed pipeline/platform.
- ✓ 20. Cathodic protection specifications.

C. Design Information - Verify that the pipeline design information given in the application and/or on the data sheet is complete and correct:

- ✓ 1. Product to be transported: BULK GAS
- ✓ 2. Pipeline, riser, and subsea valve assembly specifications:
- (1) Size 6.625" Wall Thickness .432" Grade B Weight 28.57 lbs/ft.
- (2) Size \_\_\_\_\_ Wall Thickness \_\_\_\_\_ Grade \_\_\_\_\_ Weight \_\_\_\_\_ lbs/ft.
- (3) Size \_\_\_\_\_ Wall Thickness \_\_\_\_\_ Grade \_\_\_\_\_ Weight \_\_\_\_\_ lbs/ft.
- b. Riser:
- (1) Size 6.625" Wall Thickness .432" Grade B Weight 28.57 lbs/ft.
- (2) Size 4.5" Wall Thickness .674" Grade B Weight 27.58 lbs/ft.
- (3) Size \_\_\_\_\_ Wall Thickness \_\_\_\_\_ Grade \_\_\_\_\_ Weight \_\_\_\_\_ lbs/ft.
- c. Subsea valve assembly:
- (1) Size \_\_\_\_\_ Wall Thickness \_\_\_\_\_ Grade \_\_\_\_\_ Weight \_\_\_\_\_ lbs/ft.
- (2) Size \_\_\_\_\_ Wall Thickness \_\_\_\_\_ Grade \_\_\_\_\_ Weight \_\_\_\_\_ lbs/ft.

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3. Water depth: Maximum -71' Minimum -67'

4. Type of corrosion protection:

a. Impressed current system

b. Sacrificial anode system

(1) Type of anode Galvalum III or S alloy 150 bracelets

(2) Spacing interval 500 ft.

(3) Weight of unit anode given by applicant 35 lbs. ea.

c. If platform anodes are used, are they considered adequate?

Yes \_\_\_\_\_ No \_\_\_\_\_

d. If pipeline anodes are used:

Formula:  $L_{p/1} = 3.82 \times 10^4 \times W^0 / DIR = 38200 \times 35 / 6.625 \times 500 \times 9.6 = 424_{13}$

Where:

$W^0$  = Weight of Anode unit (lbs)

D = Dia. of pipe (inches)

I = Separation between anodes (ft.)

R = the following lbs/amp/year (Rate of Consumption)

Aluminum or Galvalum = 7.6 Galvalum III = 9.6

Zinc = 26

Magnesium = 17.5

Does the calculated life expectancy equal or exceed 20 years?

Yes ✓ No \_\_\_\_\_

5. Description of protective coating:

a. Pipeline — 14 mils of Scotchkote 205

b. Riser — 14 mils of Scotchkote 205

c. Subsea valve assembly

N/A 6. Description of weighted coating:

a. Preconcrete coating \_\_\_\_\_

b. Density of concrete \_\_\_\_\_ PCF

c. Thickness of concrete \_\_\_\_\_

d. Thickness of asphalt \_\_\_\_\_

7. Calculate the specific gravity (one of the following formulae may be used)



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✓ a. For epoxy coating:  $SG = 2.865W/D^2 = 2.865 \times 28.57 / 43.89 = 1.86$

\_\_\_\_\_ b. Density comparison with fluid material:  $SG = \frac{W+P}{\frac{A}{R}}$

\_\_\_\_\_ c. Lines with a specific thickness of concrete:

$$SG = \frac{RC + \frac{K_2}{R(T-K_1)} \left( \frac{W+P}{K_3} - \frac{RC}{R} \right)}$$

\_\_\_\_\_ d. Lines having two coatings of enamel and a felt wrap, or only asphaltmastic coating:

$$SG = \frac{W+P}{K_3}$$

Where:

SG = specific gravity

RC = density of concrete (lb/cu. ft.)

$K_1, K_2, K_3$  = coefficients

T = thickness of concrete coating (inches)

W = weight of bare pipe (lb/ft)

P = weight of coating

R = density of fluid material (lb/cu. ft.); i.e., sea water = 64 lbs/cu. ft.

D = diameter of pipe (inches)

A = cross-sectional area

✓ 8. Given specific gravity

a. 1.87 b. \_\_\_\_\_ c. \_\_\_\_\_

✓ 9. Gravity or density of product(s) .60 @ 75°F

✓ 10. Design capacity of pipeline 25 MMCFD and 1250 BBL's of Condensate

✓ 11. Given Hydrostatic Test Pressure: Line Pipe 2160 psig Hold Time 8 hrs.

Preinstallation Test \_\_\_\_\_ Riser 2160 psig Hold Time 8 hrs.

Recommended maximum hydrostatic body test for ANSI valves, flanges, and fittings are as follows:

ANSI 300 - 1,100 psig  
ANSI 400 - 1,450 psig  
ANSI 600 - 2,175 psig  
ANSI 900 - 3,250 psig  
ANSI 1,500 - 5,400 psig

HTP  
2351 psig / 8 hrs  
1-7-87

Note: Minimum hold times:

Gas = Line Pipe = 8 hrs.  
Riser = 4 hrs. (pretest)  
or DOT 192.507(c)

Liquid = 4 hrs. @ 125% of MOP  
Plus 4 hrs. @ 110% if leak inspection is not viable during test

✓ 12. Maximum Allowable Operating Pressure (MAOP) of line pipe:

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

Note: F = .72; E = 1; T = 1

a. MAOP =  $\frac{2 \times 35,000 \times .432}{6.625} \times .72 = 3286 \text{ Psig}$

b. MAOP =

c. MAOP =

✓ 13. MAOP of riser pipe.

Note: F = .50 for risers on natural gas transmission lines.

Note: F = .60 for risers on liquid pipelines.

a. MAOP =  $\frac{2 \times 35,000 \times .674}{4.5} \times .50 = 5242 \text{ Psig}$

b. MAOP =  $\frac{2 \times 35,000 \times .432}{6.625} \times .50 = 2282 \text{ Psig}$

✓ 14. MAOP of flanges, fittings, and valves:

$$2.4 \times \text{ANSI rating} = 2.4 \times 600 = 1,440 \text{ Psig}$$

✓ 15. MAOP of proposed pipeline as determined in accordance with ~~Title 49 CFR Part 195 or 192, as applicable~~ is 1,440 psig. DOI #9

✓ 16. Items 12, 13, and 14 above are equal to or more than the maximum allowable working pressure (MAWP) of source.

✓ 17. Verify: 1:25 maximum source pressure (MSP)  $\leq$  hydrostatic test pressure (HTP)  $\leq$  .95 (smaller IP @ SMYS of items 12 or 13 above)

$$\underline{1800} \leq \underline{2160} \leq \underline{4336}$$

Note: The recommended limit of test as a percentage of internal pressure @ specified minimum yield strength is equal to 95%:

$$IP @ SMYS = \frac{2 \times s \times t}{D} = 4564 \text{ Psig}$$

✓ 18. Verify MAOP does not exceed the lowest of the following:

a. Submerged components:  $HTP/1.25 = 1,728 \text{ Psig}$

b. Riser:  $HTP/1.5 = 1,440 \text{ Psig}$



N/A 19. Valve guards used: Yes \_\_\_\_\_ No \_\_\_\_\_

D. Installation Requirements:

✓ 1. All pipelines will be installed or laid to a minimum of three feet below the level of the mudline out to and including the 200 foot water depth, except at pipeline crossings. Any deviation must be justified at the time of application.

N/A 2. All valves and taps must be provided with a minimum of three feet of actual cover either with soil or sandbags or jetted to a minimum of three feet below the mudline. If MMS approved valve protection covers are used, the valves and taps are NOT required to have a minimum of three feet of actual cover or jetted three feet below the mudline. However, the top of the valve protection cover shall not protrude above the level of the mudline. Any deviation must be justified at the time of application.

E. Pipeline Crossings:

N/A 1. All pipeline crossings in water depths up to and including 200 feet shall be cement-bagged with a minimum of 18 inches between the lines with the uppermost line having a minimum of 3 feet of cover in the form of cement bags installed so as to provide a three foot horizontal to a one foot vertical (3:1) slope with a crown width that is one and one-half (1½) times the pipe diameter. Any deviation must be justified at the time of application.

N/A 2. All pipeline crossings in water depths greater than 200 feet shall be cement bagged with a minimum of 18 inches between the lines and installed so as to provide a three foot horizontal to a one foot vertical (3:1) slope. Any deviation must be justified at the time of application.

F. Construction Information:

✓ 1. Proposed construction commencement date — 12-20-86

\_\_\_\_\_ 2. Method of construction

\_\_\_\_\_ 3. Method of burial

✓ 4. Time required to lay pipe — two weeks

✓ 5. Time required to complete project — one month

G. Applicant complies with current OCS pipeline guidelines:

Yes ✓ No \_\_\_\_\_