SN 7990

Patton 3.29.96
Alvarado 4-9-96

APR 15 1996

In Reply Refer To: MS 5232

Exxon Corporation
Attention: Mr. T. S. Brooks
Post Office Box 61707
New Orleans, Louisiana 70161-1707

Gentlemen:

Your letter dated March 25, 1996, requests approval to change the service of the following pipeline located in West Delta Block 30, Lease OCS 026:

Pipeline Segment No.	Size (inches)	Length (feet)	Service	From	To
7990	6	3,374	Gas/Gas Lift	Platform T	Platform J

Your letter requests approval to change the service from gas to gas/gas lift.

Pursuant to 30 CFR 250.150(b), the subject modification is hereby approved, as proposed.

Sincerely,

(Orig. Sgd.) Kent E. Stauffer

Donald C. Howard
Regional Supervisor
Field Operations

bcc: 1502-01 Segment No. 7990 w/orig appln (KFaust) (MS 5232)

FPatton:jvl:03/29/96:Exxon.990

4/15/96

EXXON COMPANY, U.S.A.
POST OFFICE BOX 61707 • NEW ORLEANS, LOUISIANA 70161-1707

PRODUCTION DEPARTMENT
NEW ORLEANS OPERATIONS

March 25, 1996

Change of Service
MMS Segment 7990

Mr. Don C. Howard
Regional Supervisor
Minerals Management Service
1201 Elmwood Park Boulevard
New Orleans, Louisiana 70123-2394

Dear Mr. Howard:

Exxon Company, U.S.A. respectfully requests approval to amend the service of MMS #7990 (6" bi-directional pipeline between West Delta Block 30 "T" and West Delta Block 30 "J" platforms) to include **gas-lift gas.**

As shown on the attached flow schematics, MMS #7990 (KAA-T008, KAA-J008) is capable of flowing separated gas and gas-lift gas to or from the "T" or "J" platform, as needed. MMS #7990 is part of the West Delta 30 field gas-lift system.

It is understood that this line will remain under the jurisdiction of the Department of Transportation.

If you have any questions concerning this submittal, please contact Mr. V. W. Henley at (504) 561-4680.

Sincerely,

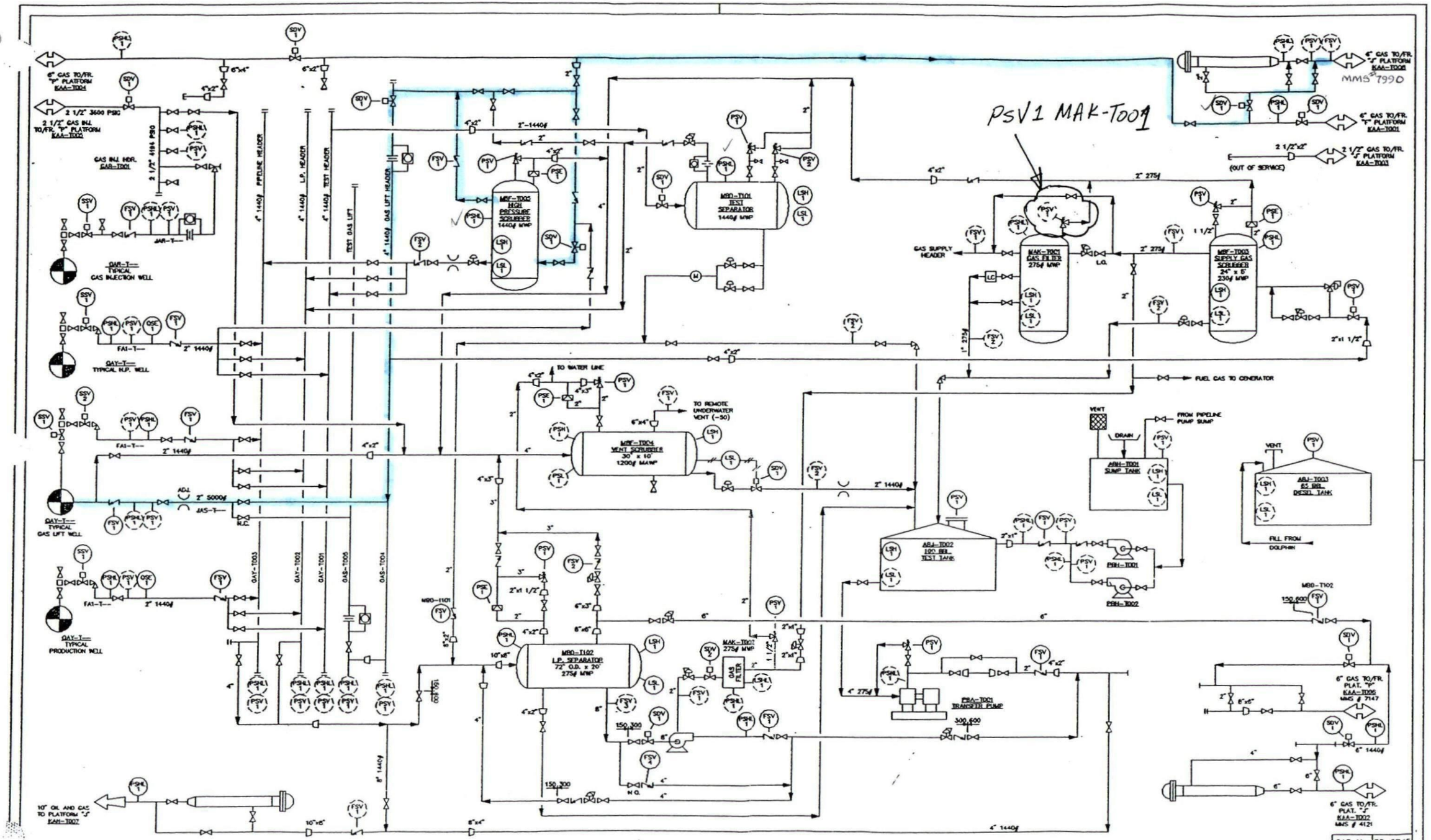
EXXON CORPORATION

By: _____
T. S. Brooks
Exxon Company, U.S.A.
(a division of Exxon Corporation)

VWH
Attachments

MAR 28 1996

BEST AVAILABLE COPY



NO.	DATE	REVISIONS	BY	CHK	APPR
6	7/91	GEN. UPDATE	D.G.		
5	5/91	GEN. UPDATE	B.B.		
4	4/91	ADD TYP. H.P. WELL	B.B.		

NO.	DATE	REVISIONS	BY	CHK	APPR
3	1/91	GEN. UPDATE	B.B.		
2	8/90	GEN. UPDATE	B.B.		
1	12/89	AUTOCAD REDRAW	W.C.M.		

SCHEMATIC FLOW DIAGRAM
WEST DELTA BLOCK 30
"T" PLATFORM

DRAWN W.C.M.
CHECKED
ENGR. SECTION
APPROVED
REVISED
SCALE: NONE
DATE: 12/28/89

Exxon Company, U.S.A.
A DIVISION OF EXXON CORPORATION
PRODUCTION DEPARTMENT
NEW ORLEANS

JOB NO.
FILE NO. ROB-85-7

CAD No. 53-0745

10/92 SAC out PSV1 MAK T001.

JUL 3 1991

QAY–JXXX	QAY–JXX	QAR–JXXX	GAY–J001	GAY–J002	GAY–J003	GAR–J001	GAS–J004	MBD–J101
TYP. PRODUCTION WELL	TYP. GAS LIFT WELL	TYP. GAS INJECTION WELL	L.P. HEADER 4"–1440 PSIG MWP	TEST HEADER 4"–1440 PSIG MWP	65 BBL TANK HEADER 4"–1440 PSIG MWP	GAS INJECTION HEADER 3"–3600 PSIG MWP	GAS LIFT HEADER 2"–1440 PSIG MWP	TEST SEPARATOR 24" O.D. X 10'–0" S/S MWP: 1440 PSIG

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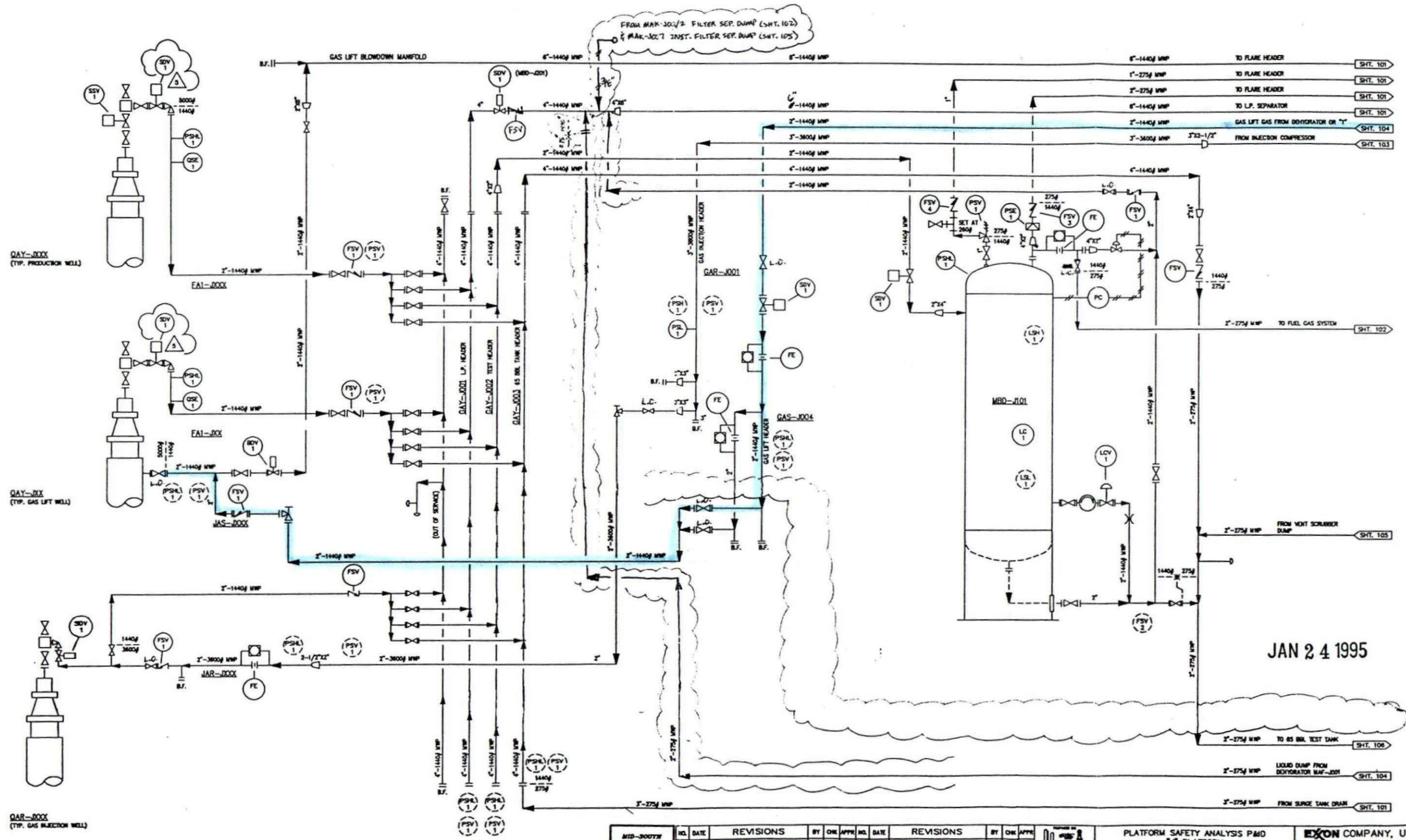


NO.	DATE	REVISIONS	BY	CHK	APPR	NO.	DATE	REVISIONS	BY	CHK	APPR
1	2/88	1550 INSTALLATION AS-BUILT	F.C.	DAS		4	9/94	PHA-UPDATE	L.D.		
2	2/88	INJECTION HEADER INSTALLATION	F.C.	DAS		5	1/95	GENERAL REVISIONS	B.D.	L.D.	
3	1/17/95	AS BUILT SAFE CHARTS REVISN	MSC								

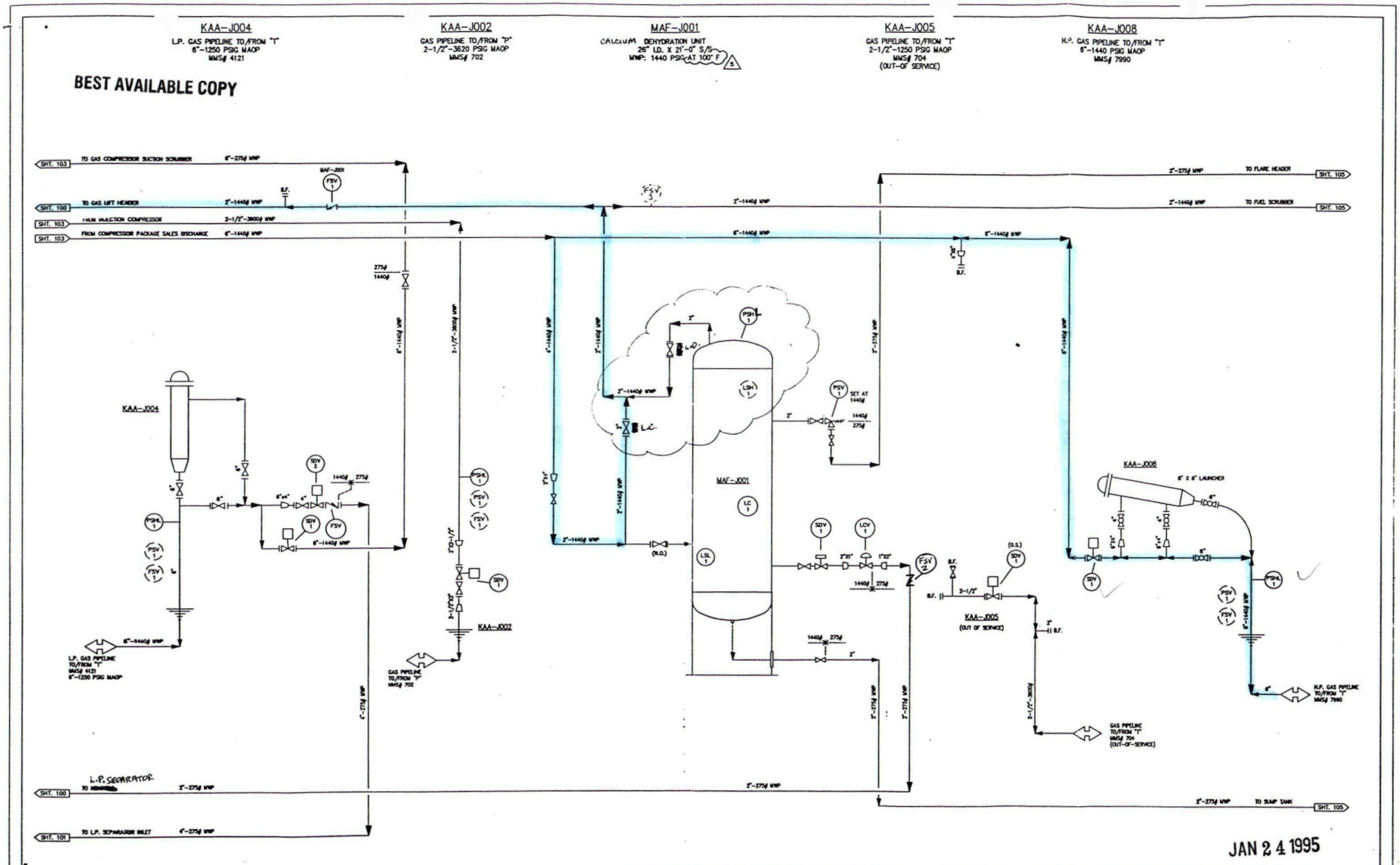
MID-SOUTH CONTROLS AND SERVICES, INC.
07-94-307

NEW ORLEANS OPERATIONS

PLATFORM SAFETY ANALYSIS P&ID
"J" PLATFORM
WEST DELTA BLOCK 30
OCS-026
DRAWN: THEROIT
CHECKED:
SCALE: NONE
DATE: 7/22/94

EXXON COMPANY, U.S.A.
PRODUCTION DEPARTMENT
NEW ORLEANS OPERATIONS

DRAWING NO. S-1206-100
TYPE X
REV. 3



JAN 24 1995

MID-SOUTH CONTROLS AND SERVICES, INC. 07-84-307	NO.	DATE	REVISIONS	BY	CHK	APPR	NO.	DATE	REVISIONS	BY	CHK	APPR
	1	2/88	1550 INSTALLATION AS-BUILT	F.C.	DMM		4	9/94	PHA-UPDATE	L.D.		
	2	2/88	INJECTION HEADER INSTALLATION	F.C.	DMM		5	1/95	GENERAL REVISIONS	B.D.	L.D.	
	3	5/17/93	AS BUILT SAFE CHARTS REGEN.	MSC								

NEW ORLEANS OPERATIONS

PLATFORM SAFETY ANALYSIS P&ID
"J" PLATFORM
WEST DELTA BLOCK 30 OCS-026
DRAWN THERIOT
SCALE NONE
DATE 7/25/86

EXXON COMPANY, U.S.A.
PRODUCTION DEPARTMENT
DRAWING NO. S-1206-104
TYPE X

LANZA 7/28/87
Britton 7/28/87
Gamma 7-28-87

BEST AVAILABLE COPY

In Reply Refer To: FO-2-2

JUL 2 8 1987

Exxon Corporation
Attention: Mr. T. S. Brooks
Post Office Box 60626
New Orleans, Louisiana 70160

Gentlemen:

Your letter dated July 8, 1987, transmitted a hydrostatic test pressure (HTP) chart and an "as-built" location plat for the following pipeline, located in West Delta Block 30, Lease OCS 026:

Pipeline Segment No.	Size (inches)	Length (feet)	Service	From	To
7990	6 5/8	3,374	Natural Gas	Platform T	Platform J (Bidirectional)

The data which you provided indicates the following test information and establishes the assigned maximum allowable operating pressure (MAOP) for this pipeline:

Pipeline Segment No.	Test Pressure (psig)	Duration (hours)	MAOP (psig)	MAOP Determination
7990	2,180	8	1,440	Valves

The high- and low-pressure sensors shall be set, respectively, at 10 percent above and below the normal operating pressure range. However, the high pilot shall not be set higher than the MAOP.

Sincerely yours,

(Orig. Sgd.) A. Donald Giroir

for D. J. Bourgeois
Regional Supervisor
Field Operations

bcc: 1502-01 Exxon (w/orig report) (FO-2-2)
Lease OCS 026 (OPS-3-2)
FO-3
OPS-5 (w/cy of location plat)

RLanza:mcs:7/27/87:LEXITYPE Disk 4

cm mcs 7/29/87 KT

PMS 8/3/87 R.L

FOZ-2

EXXON COMPANY, U.S.A.
POST OFFICE BOX 60626 • NEW ORLEANS, LOUISIANA 70160-0626

PRODUCTION DEPARTMENT
EASTERN DIVISION
OFFSHORE DIVISION

REGULATORY AFFAIRS

July 8, 1987

Completion Report
6" Pipeline Installation
West Delta Block 30
"T" to "J" Platform
OCS 026
MMS Segment No. 7990

Mr. D. J. Bourgeois
Regional Supervisor
Minerals Management Service
1201 Elmwood Park Boulevard
New Orleans, Louisiana 70123-2394

Dear Mr. Bourgeois:

Enclosed for your records is the completion report for the above-referenced pipeline. This report consists of four copies of an "as-built" location drawing and two copies each of the hydrotest pressure charts and the deadweight tester record. The minimum test pressure of 2100 psi was held for eight hours substantiating a MAOP of 1400 psi.

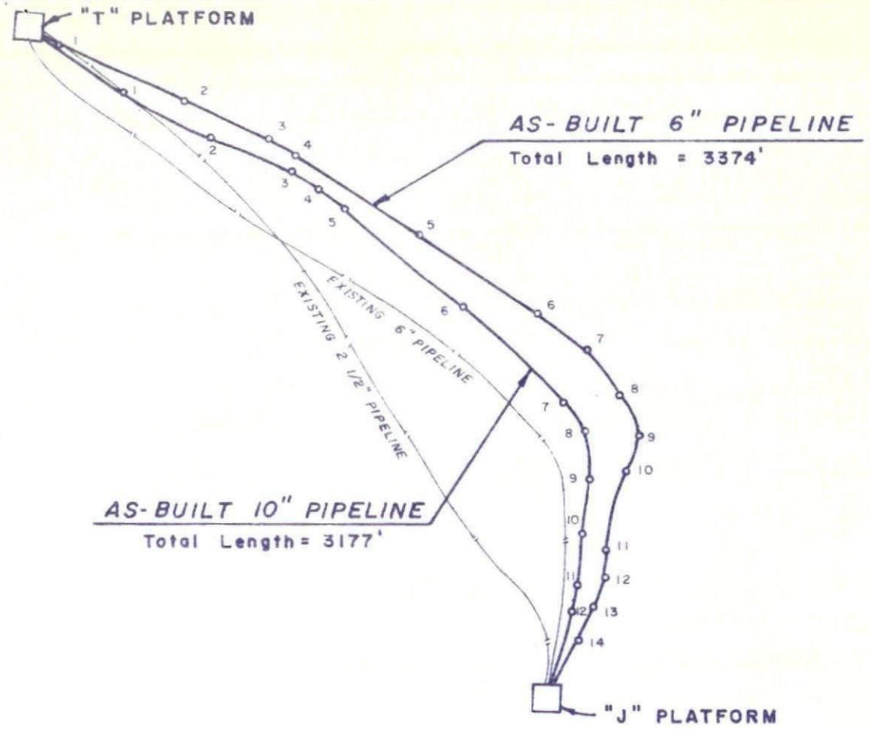
Any questions concerning this matter should be directed to Mrs. R. S. Nelson, 561-4680.

Sincerely,

EXXON CORPORATION

By: T S Brooks
T. S. Brooks
Exxon Company, U.S.A.
(a division of Exxon Corporation)

RSN:lm
Attachments



X = 2,549,322.00'

OCS-G 026

Y = 165,518.40'

30 | 29

45 | 46

N

AS-BUILT DATA

10" P/L 30 T TO 30 J

POINT	X COORDINATE	Y COORDINATE
℄ "T" Platform	2,545,623'	169,806'
1 P/L Crossing	2,545,939'	169,585'
2 Anode 2	2,546,226'	169,421'
3	2,546,493'	169,309'
4	2,546,586'	169,252'
5 Anode 3	2,546,668'	169,188'
6 Anode 4	2,547,061'	168,860'
7 Anode 5	2,547,391'	168,536'
8	2,547,462'	168,435'
9	2,547,479'	168,274'
10	2,547,459'	168,091'
11	2,547,442'	167,924'
12	2,547,421'	167,840'
Riser "J" Platform	2,547,391'	167,582'

6" P/L 30T TO 30 J

℄ T Platform	2,545,623'	169,806'
1 P/L Crossing	2,545,728'	169,740'
2 Anode 1	2,546,141'	169,557'
3	2,546,414'	169,432'
4 Anode 2	2,546,505'	169,371'
5	2,546,904'	169,101'
6 Anode 3	2,547,303'	168,830'
7	2,547,464'	168,714'
8	2,547,573'	168,561'
9	2,547,643'	168,422'
10	2,547,599'	168,300'
11 Anode 5	2,547,536'	168,035'
12	2,547,534'	167,951'
13	2,547,488'	167,846'
14	2,547,446'	167,735'
Riser "J" Platform	2,547,391'	167,582'

NOTES:
1. *As-built data was obtained by fixing stinger positions with a syledis positioning system on the barge at the time of pipe lay.*
2. *Platform and foreign pipelines are shown as per information provided, and were verified in the field.*

I hereby certify that the plat shown hereon correctly represents a survey done under my supervision.

Robert D. Ellis Reg. No. 4006

Rev. 6/11/87

STATE OF TEXAS
ROBERT D. ELLIS
4006
REGISTERED PUBLIC SURVEYOR

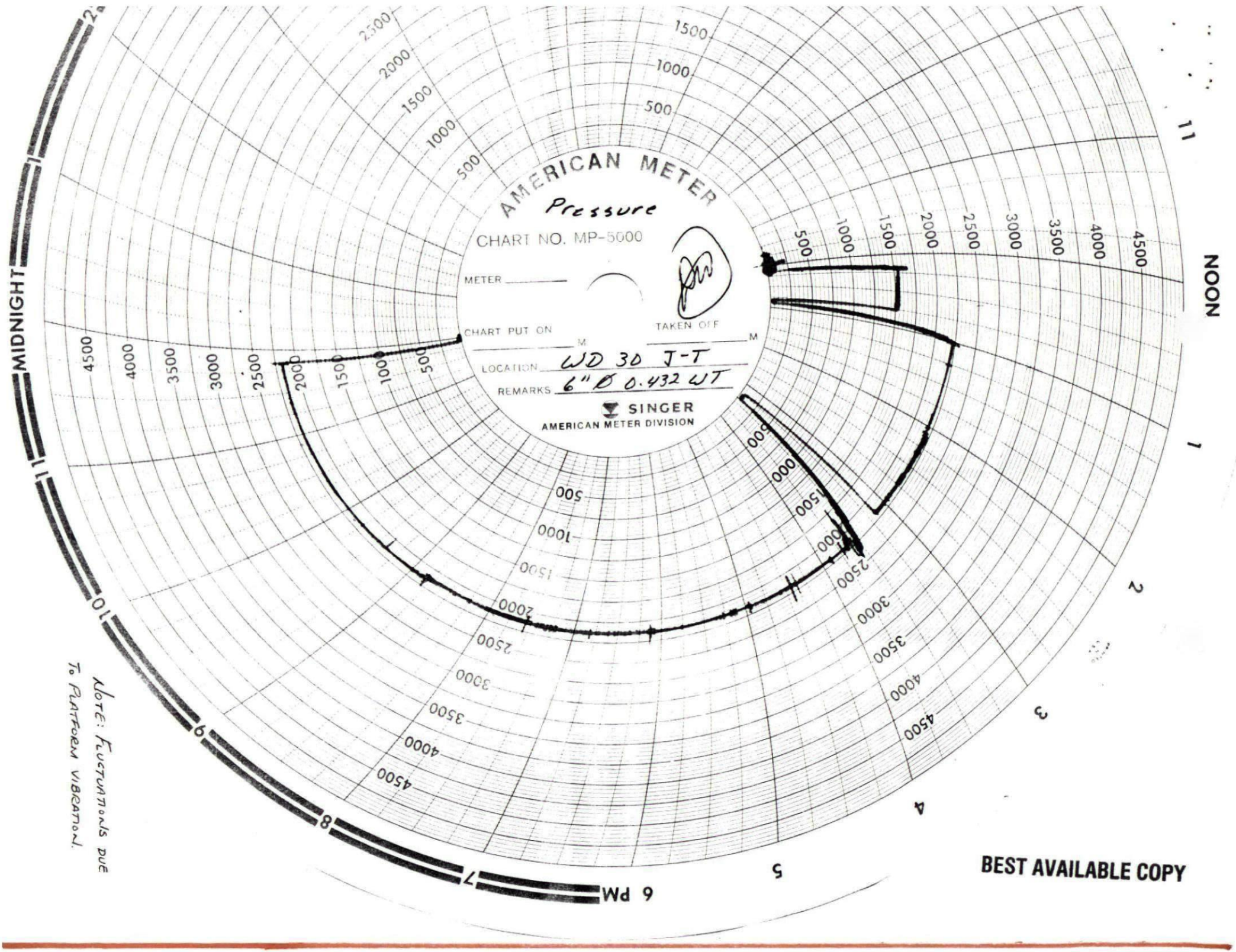
DATUM
SPHEROID: CLARKE 1866
PROJECTION: LAMBERT
ZONE: LOUISIANA SOUTH

AQUANAV

NORMAN OPC FOR EXXON COMPANY USA

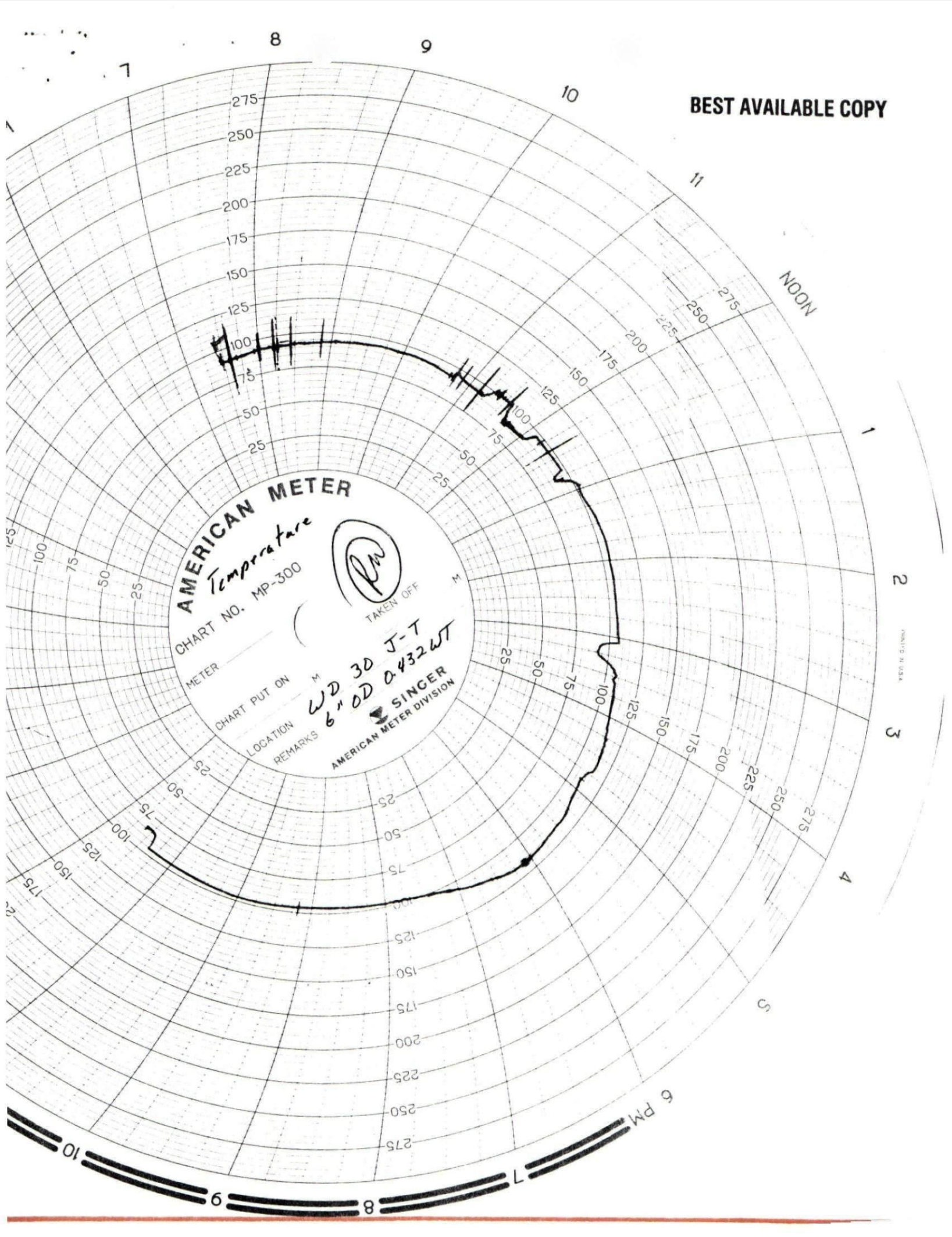
AS-BUILT 10" & 6" P/L
FROM PLATFORM "T" TO PLATFORM "J"
BLOCK 30, WEST DELTA AREA

JOB #	SCALE	DATE
87030	1"= 500'	5/20/87



Note: Fluctuations due to Platform vibration.

BEST AVAILABLE COPY



NORMAN OFFSHORE PI. .LINE CONTRACTORS, IN.

A MINORITY BUSINESS ENTERPRISE

Phone (318) 237-1444
P.O. Box 53907, O.C.S. • Lafayette, La. 70505

PIPELINE COMPANY EXXON COMPANY, U.S.A. | JOB NO:
PIPELINE CONTRACTOR NORMAN OPC. | W.O.NO:
AFE NO:

TEST SECTION NO. _____ FROM _____ TO _____

TEST BEGAN: DATE 5-21-87 TIME 1545 | PRESSURE UNIT NO. _____ STATION NO. _____

TEST END: DATE 5-21-87 TIME 2345 | ELEVATION _____

PIPE DATA: 6" Ø X .432 PIPE GR. B SMLS. APPROXIMATELY 3570' IN LENGTH.

DEADWEIGHT SERIAL NUMBER 8505040N-SI-4 DATE CERTIFIED 5-19-87
PRESSURE RECORDER SERIAL NUMBER SI-13 DATE CERTIFIED 5-19-87
TEMPERATURE RECORDED SERIAL NUMBER SI-8 DATE CERTIFIED 5-19-87
TEST IS __ACCEPTED __REJECTED IF REJECTED, EXPLAIN _____

DEADWEIGHT RECORD

TIME	PRESSURE	TEMPERATURE PIPE OR GROUND	REMARKS
1545	2210	110°	PRESSURING UP
1600	2208	115°	STABILIZING
1615	2205	115°	STABILIZING
1630	2203	115°	STABILIZING
1645	2203	115°	STABILIZING
1700	2200	115°	STABILIZING
1715	2197	110°	TEMPERATURE
1730	2195	115°	STABILIZING
1745	2194	115°	STABILIZING
1800	2191	115°	STABILIZING
1815	2191	115°	STABILIZING
1830	2191	115°	STABILIZING
1845	2191	112°	STABILIZING
1900	2191	110°	STABILIZING
1930	2188	105°	TEMPERATURE DROP SO IS PRESSURE
2000	2184	100°	TEMPERATURE DROP SO IS PRESSURE
2030	2185	97°	TEMPERATURE DROP SO IS PRESSURE
2045	2185	95°	PUMPED
2100	2185	95°	HOLDING PRESSURE

TEST FOREMAN _____ INSPECTOR _____
(SIGNATURE) (SIGNATURE)

NORMAN OFFSHORE PI _INE CONTRACTORS, IN(

A MINORITY BUSINESS ENTERPRISE

Phone (318) 237-1444
P.O. Box 53907, O.C.S. • Lafayette, La. 70505

BEST AVAILABLE COPY

PIPELINE COMPANY EXXON COMPANY, U.S.A. | JOB NO:
PIPELINE CONTRACTOR NORMAN OPC | W.O.NO:
AFE NO:

TEST SECTION NO. _____ FROM _____ TO _____

TEST BEGAN: DATE 5-21-87 TIME 1545 | PRESSURE UNIT NO. _____ STATION NO. _____

TEST END: DATE 5-21-87 TIME 2345 | ELEVATION _____

PIPE DATA: 6" Ø X .432 PIPE GR. B SMLS. APPROXIMATELY 3570' IN LENGTH.

DEADWEIGHT SERIAL NUMBER 8505040N-SI-4 DATE CERTIFIED 5-19-87
PRESSURE RECORDER SERIAL NUMBER SI-13 DATE CERTIFIED 5-19-87
TEMPERATURE RECORDED SERIAL NUMBER SI-8 DATE CERTIFIED 5-19-87
TEST IS __ACCEPTED __REJECTED IF REJECTED, EXPLAIN _____

DEADWEIGHT RECORD

TIME	PRESSURE	TEMPERATURE PIPE OR GROUND	REMARKS
2130	2185	95°	HOLDING PRESSURE
2200	2185	95°	HOLDING PRESSURE
2230	2185	95°	HOLDING PRESSURE
2300	2185	95°	HOLDING PRESSURE
2330	2185	95°	HOLDING PRESSURE
2345	2185	95°	HOLDING PRESSURE

TEST FOREMAN _____ INSPECTOR _____
(SIGNATURE) (SIGNATURE)

ORAL REPORT OF PIPELINE INSTALLATIONS

REPORT RECEIVED

NAME: ALEX
DATE: 5-1-87

REPORT GIVEN BY

NAME: BECKY NELSON
DATE:
PHONE: (EXXON)

DATE OF INSTALLATION: 5-4 OR 5-5
BARGE NO: BOB NORMAN DELTA I
SIZE OF PIPELINE: 6 5/8 , 10 3/4
SERVICE: BI GAS BLKD
FROM: WD 30 T
SEG 7990 8068
TO: WD 30 J

HELIPORT:

INSPECTION OF INSTALLATION
DATE:
NAME OF INSPECTOR:
REMARKS:

****

ORAL REPORT OF PIPELINE HTP

REPORT RECEIVED BY

NAME: ALEX
DATE:

REPORT GIVEN BY

NAME: BECKY NELSON
EXXON

DATE OF TEST: 5-19-87
INSPECTION OF HTP
NAME OF INSPECTOR:
REMARKS:

****

MMS FIELD INSPECTION

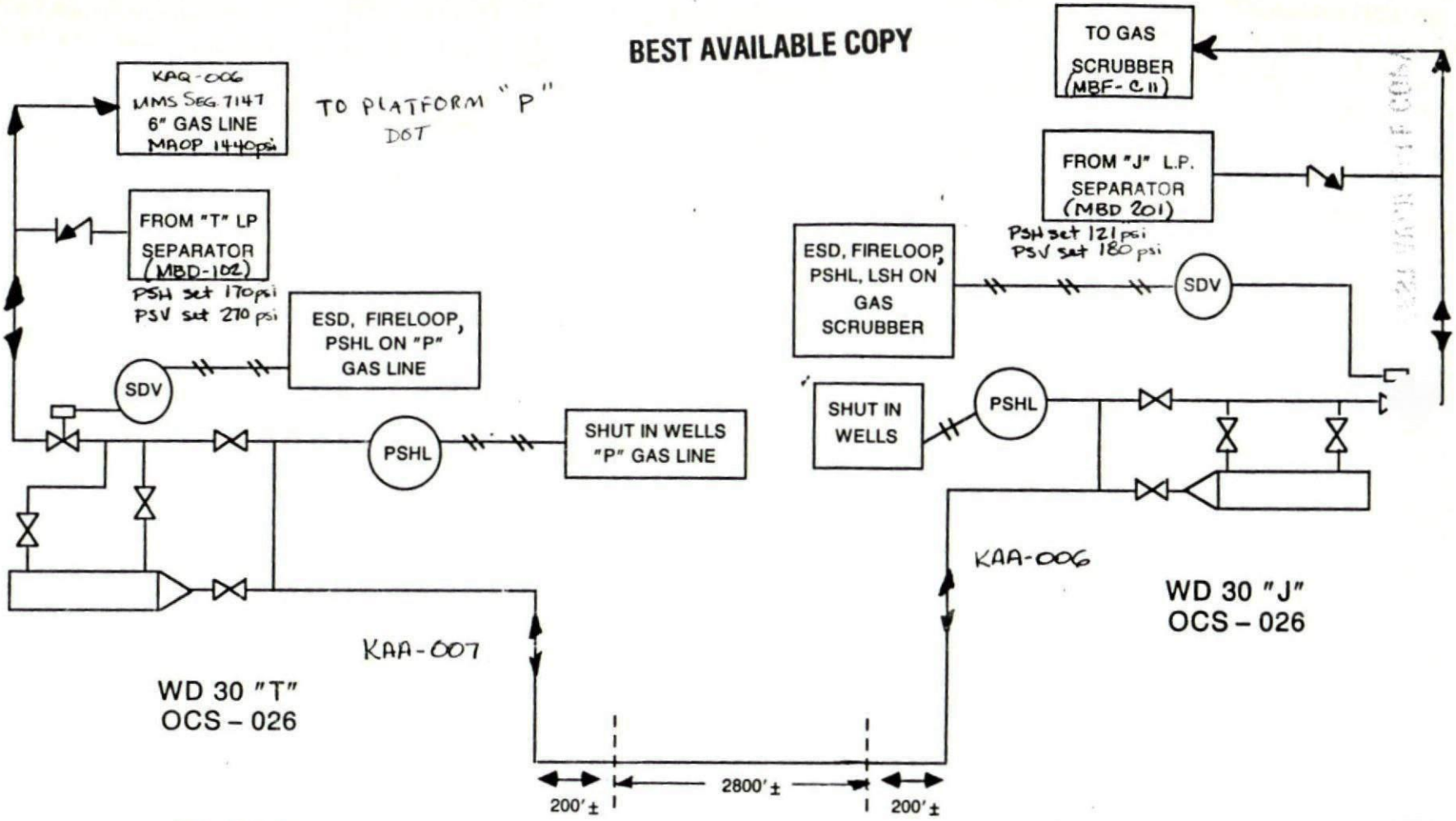
RISER AND SAFETY EQUIPMENT

INSPECTED BY:

SEGMENT NO:

REMARKS:

BEST AVAILABLE COPY



DESIGN INFO

RISER – DOT PART 192	1620 PSI
VALVES & FLANGES – ANSI B16.5	1480 PSI
HYDROSTATIC TEST PRESSURE	2220 PSI
MAXIMUM ALLOWABLE OPERATING PRESSURE (LIMITED BY PLATFORM PIPING)	1440 PSI

DESIGN INFO

PIPE – DOT PART 192	2335 PSI
VALVES & FLANGES – ANSI B16.5	1480 PSI
HYDROSTATIC TEST PRESSURE	2220 PSI
MAXIMUM ALLOWABLE OPERATING PRESSURE (LIMITED BY PLATFORM PIPING)	1440 PSI

DESIGN INFO

RISER – DOT PART 192	1620 PSI
VALVES & FLANGES – ANSI B16.5	1480 PSI
HYDROSTATIC TEST PRESSURE	2220 PSI
MAXIMUM ALLOWABLE OPERATING PRESSURE (LIMITED BY PLATFORM PIPING)	1440 PSI

APPLICATION BY

EXXON COMPANY, U.S.A.
A DIVISION OF EXXON CORPORATION

FLOW DIAGRAM
PROPOSED 6" PIPELINE BLOCK 30"T"
PLATFORM – BLOCK 30 "J" PLATFORM
WEST DELTA AREA, OCS 026, GULF OF MEXICO

DRAWN BY F. Conrad | CHECKED BY [illegible] | DATE 11/[illegible] | REVISED | SHEET OF | FILE EA-6247-2

Date of Inspection: 5-12-87 Person Involved: _____

Lessee/Operator: EXXON Contractor: _____
Barge ID

MMS Inspector: ALVARADO Barge or Platform: WD 30 J
Location

Seg No.: or BLM 7990 / 8068 DOT/DOI: DOT / DOI

From: WD 30 T To: WD 30 J

General Description of Pipeline: Pipe Specification:

Type: BI GAS / BLK Ø Length: _____

Size: _____ SMYs: _____

Grade: _____ Wall Thickness: _____

Seamless: _____ Anodes: _____

Coating: _____ Type: _____ Weight: _____

No.: _____ Spacing: _____

MIP Test

(Medium) Water or Product _____

Duration Time _____

Pressure Psig _____

Rating of Valves, Flanges, Fittings and Location

Rating: 1440 Flanges: _____

Location: SDV 10" at J Fitting: _____
ONLY VALVE AVAILABLE

Type of Downstream Component

High Low

Sensors: _____ _____ Rating of Downstream Component: _____

Pipeline Crossing & Clearance: _____ Burial Depth: _____

Riser Protection Valves, Taps: _____

Coating: _____ Bumper Guard: _____

Water Depth: _____ Cover over Valves: _____

Remarks: Jack-up based at both platforms redoing platform piping and hooking up new pipelines. Riser not installed at J yet

BEST AVAILABLE COPY

SN 7990

Navarro 4-13 87
Kelly 4/13/87

In Reply Refer To: FO-2-2

APR 1 4 1987

Exxon Corporation
Attention: Mr. T. S. Brooks
Post Office Box 60626
New Orleans, Louisiana 70160

Gentlemen:

Your letters dated December 5, 1986, and March 26, 1987, request approval for the installation of the following pipelines, located in West Delta Block 30, Lease OCS 026:

Pipeline Segment No.	Size (inches)	Length (feet)	Service	From	To
7990	6 5/8	3,200	Bidirectional Natural Gas	Platform T	Platform J
8068	10 3/4	3,200	Bulk Oil	Platform T	Platform J

Based on our calculations, the maximum allowable operating pressure for these pipelines is 1,440 psig.

Proposed Segment No. 7990 does not meet the requirements of OCS Order No. 9 paragraph 9.1.A.(2)(b) relative to the installation of a check valve (FSV) on pipelines boarding a platform. However, since adequate backflow protection is afforded by an automatic shut-in valve (SDV) and low-pressure sensor (PSL) in lieu of a FSV, a departure is granted. Pursuant to Department of the Interior Regulation 30 CFR 250.20, the design, other features, and plan of installation are hereby approved, as proposed.

Pursuant to 43 USC 1334(f)(1), this approval is granted upon the condition that the applicant agrees to operate said pipelines in accordance with the following competitive principles: Except as provided in 43 USC 1334(f)(2) the pipelines must provide open and nondiscriminatory access to both owner and nonowner shippers.

You are required to conform to the following:

1. Notify the Platform/Pipeline Unit, Field Operations, 48 hours prior to installing these pipelines and prior to hydrostatic pressure testing.

2. Adhere to the conditions of Notice to Lessees and Operators No. 83-3.

3. Submit an "as-built" location plat and hydrostatic pressure-test report within 30 days from the completion of the hydrostatic pressure test.

On map 5/8/87 HT

PME 5-1-87 AA

4. Design, construct, operate, and maintain Segment No. 7990 in accordance with the Department of Transportation Regulations Title 49 CFR 192.

5. Install a shut-in valve in the pipelines at a location in proximity to where they board the platform.

In future correspondence, please refer to each of the above pipelines by its assigned segment number.

Sincerely yours,

(Orig. Sgd.) A. Donald Giroir

For D. J. Bourgeois
Regional Supervisor
Field Operations

cc: U.S. Fish and Wildlife Service
1612 June Avenue
Panama City, Florida 32405

bcc: 1502-01 Exxon (w/orig appln) (FO-2-2)
Lease OCS 026 (OPS-3-2)
OPS-5 (w/cy of plat)
FO-3
LE-5 (P/L No. 7990)

AAlvarado:RKelly:jj:4/10/87:Disk 3

FO-2-2
7990

BEST AVAILABLE COPY

EXXON COMPANY, U.S.A.
POST OFFICE BOX 60626 • NEW ORLEANS, LOUISIANA 70160-0626

PRODUCTION DEPARTMENT
EASTERN DIVISION
OFFSHORE DIVISION

REGULATORY AFFAIRS

December 5, 1986

6" Pipeline Installation
Bidirectional Line Connecting
West Delta Block 30
"J" and "T" Platforms OCS-026

Mr. D. J. Bourgeois
Regional Supervisor
Minerals Management Service
1420 S. Clearview Parkway
Metairie, Louisiana 70123

Dear Mr. Bourgeois:

Exxon Company, U.S.A. respectfully requests approval to install, operate and maintain the above-referenced pipeline. This pipeline will be used primarily to flow separated gas from the "T" platform to compression on the "J" platform. However, we would like to have the flexibility to flow separated gas from the "J" platform to the "T" platform and on to the "P" platform if the compressor is out of service on the "J". For this reason, bidirectional capabilities are desired.

Attached is a design data sheet, a vicinity map, a plan drawing, a profile drawing and a flow diagram detailing this construction. Also enclosed are copies of a hazard survey performed in Block 30. Based on this information and operating knowledge in this area, we do not anticipate encountering shallow hazards along this pipeline routing.

Construction on this pipeline is currently scheduled to begin in January 1987. Any questions on this matter should be directed to Mrs. R. S. Nelson (561-4680).

Sincerely,

EXXON CORPORATION

By: T S Brooks
T. S. Brooks
Exxon Company, U.S.A.
(a division of Exxon Corporation)

RSN:lm

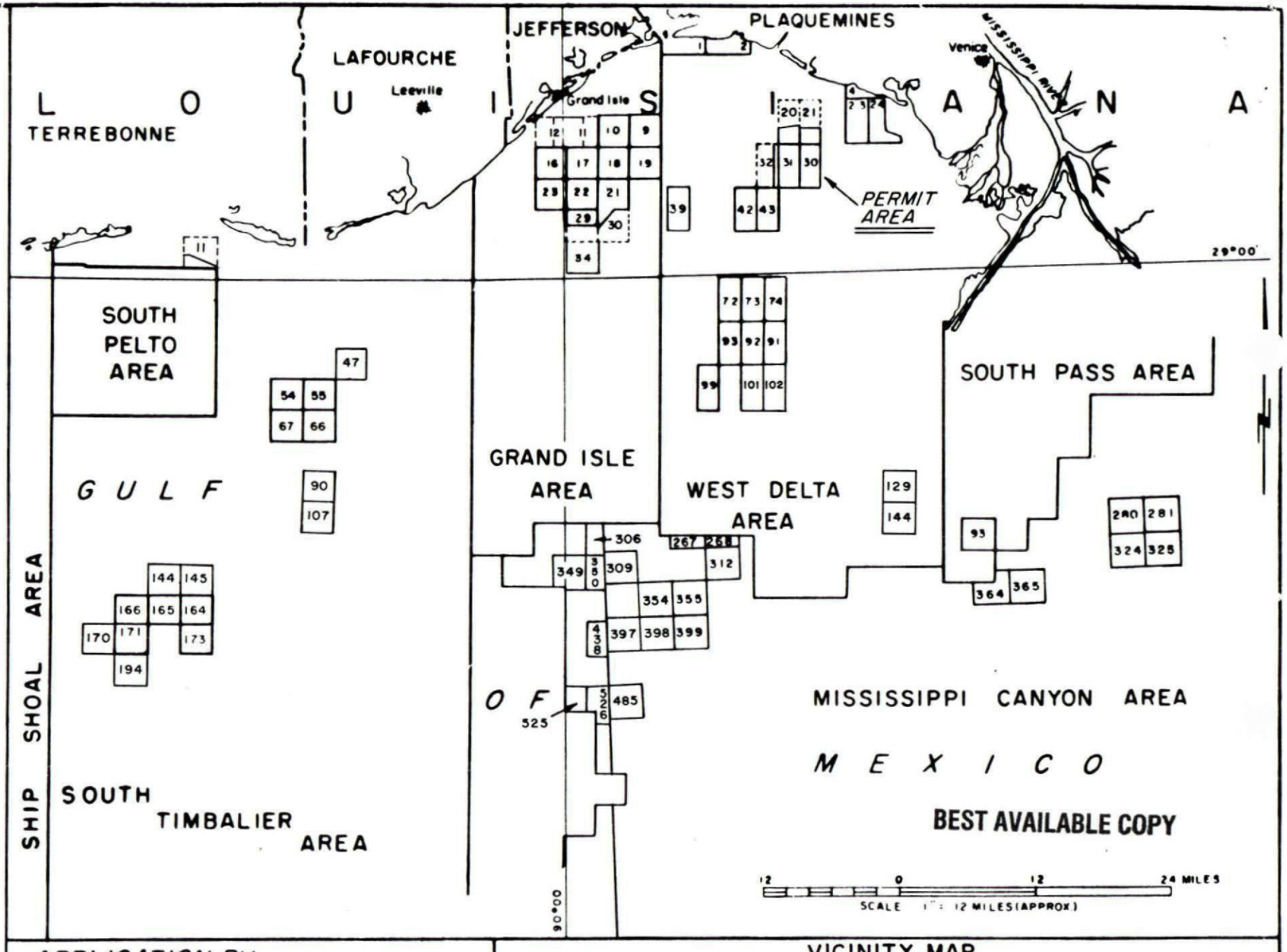
Attachments

DESIGN DATA

Proposed 6 Inch Gas Flowline Connecting West Delta 30-J Platform & West Delta 30-T Platform Gulf of Mexico

1.	Transported Fluid	Natural Gas
2.	Pipe:	6.625" O.D., 0.432" w.t. 28.57 lb./ft., Grade B Seamless
3.	Risers:	6.625" O.D., 0.432" w.t. 28.57 lb./ft., Grade B Seamless
4.	Length	3200 ft.±
5.	Water Depth:	WD 30-'J' - 50 ft. WD 30-'T' - 45 ft.
6.	Cathodic Protection:	48 lb. Aluminum-Indium (Galvalum III) Spaced @ 1100 ft.
7.	Protective Coatings - Pipe:	12-15 mils of Scotchkote 205 Thin Film Epoxy
	- Riser:	1/2-inch of "Splashtron" Neoprene coating from El.(-)7' to El.(+)5' mean water level
8.	Specific Gravity of Empty line - 0.432" w.t. pipe:	1.86 (seawater = 1.03)
9.	Specific Gravity of Products:	Gas 0.65
10.	Pressure Design Data:	<u>Design</u>
	a. Pipe - DOT Part 192 (F=0.72)	2335 PSI
	b. Riser - DOT Part 192 (F=0.50)	1620 PSI
	c. Valves & Flanges - ANSI B16.5	1480 PSI
	d. Hydrostatic Test Pressure	2220 PSI (8 hour test)
	e. Design Pressure	1440 PSI
	f. Maximum Allowable Operating Pressure	1440 PSI
	g. Capacity - Gas	8 MSCFD
11.	Prime Mover	None
12.	Burial	3 feet minimum

MDH:db09
Rev. 12/3/86



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APPLICATION BY

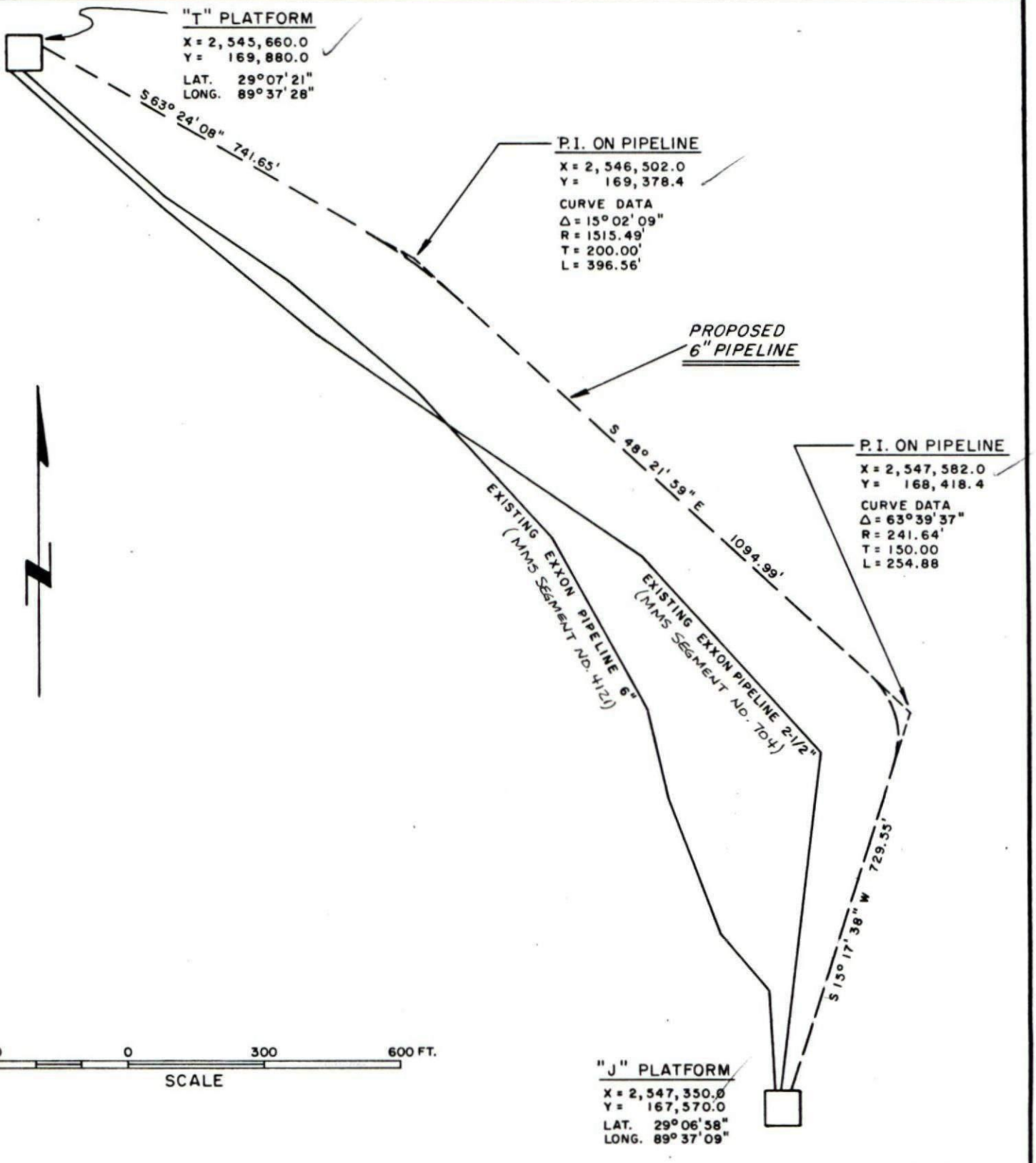
EXXON COMPANY, U.S.A.

A DIVISION OF EXXON CORPORATION

VICINITY MAP
PROPOSED 6" PIPELINE BLOCK 30 "T" PLATFORM - BLOCK 30 "J" PLATFORM
WEST DELTA AREA GULF OF MEXICO

DRAWN BY F. Conrad	CHECKED BY	DATE	REVISED	SHEET OF	FILE NO EA-6247

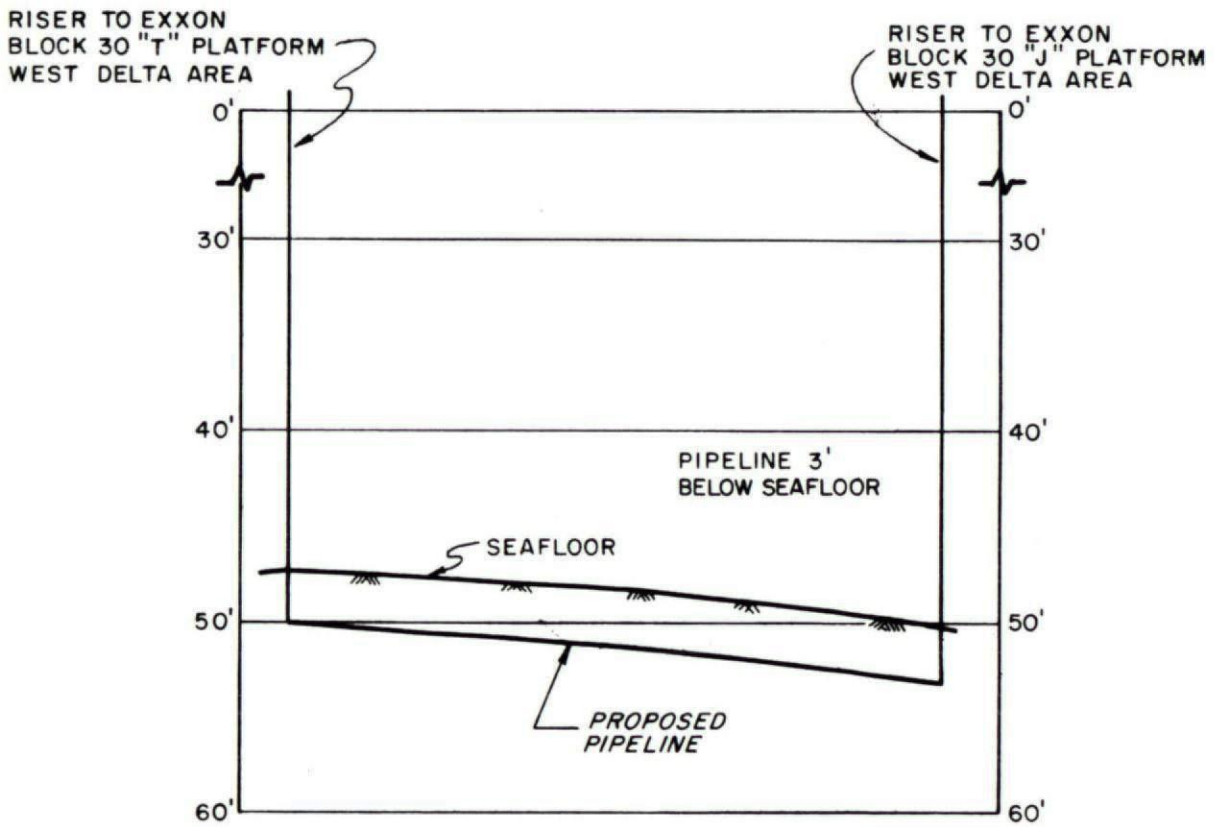
BEST AVAILABLE COPY



APPLICATION BY
EXXON COMPANY, U.S.A.
A DIVISION OF EXXON CORPORATION

PLAN
PROPOSED 6" PIPELINE BLOCK 30 "T" PLATFORM – BLOCK 30 "J" PLATFORM
WEST DELTA AREA, OCS 026, GULF OF MEXICO

DRAWN BY F. Conrad	CHECKED BY	DATE	REVISED	SHEET OF	FILE NO: EA-6247-1



PROFILE

0 2 4 6 8 10 FT.
VERTICAL SCALE

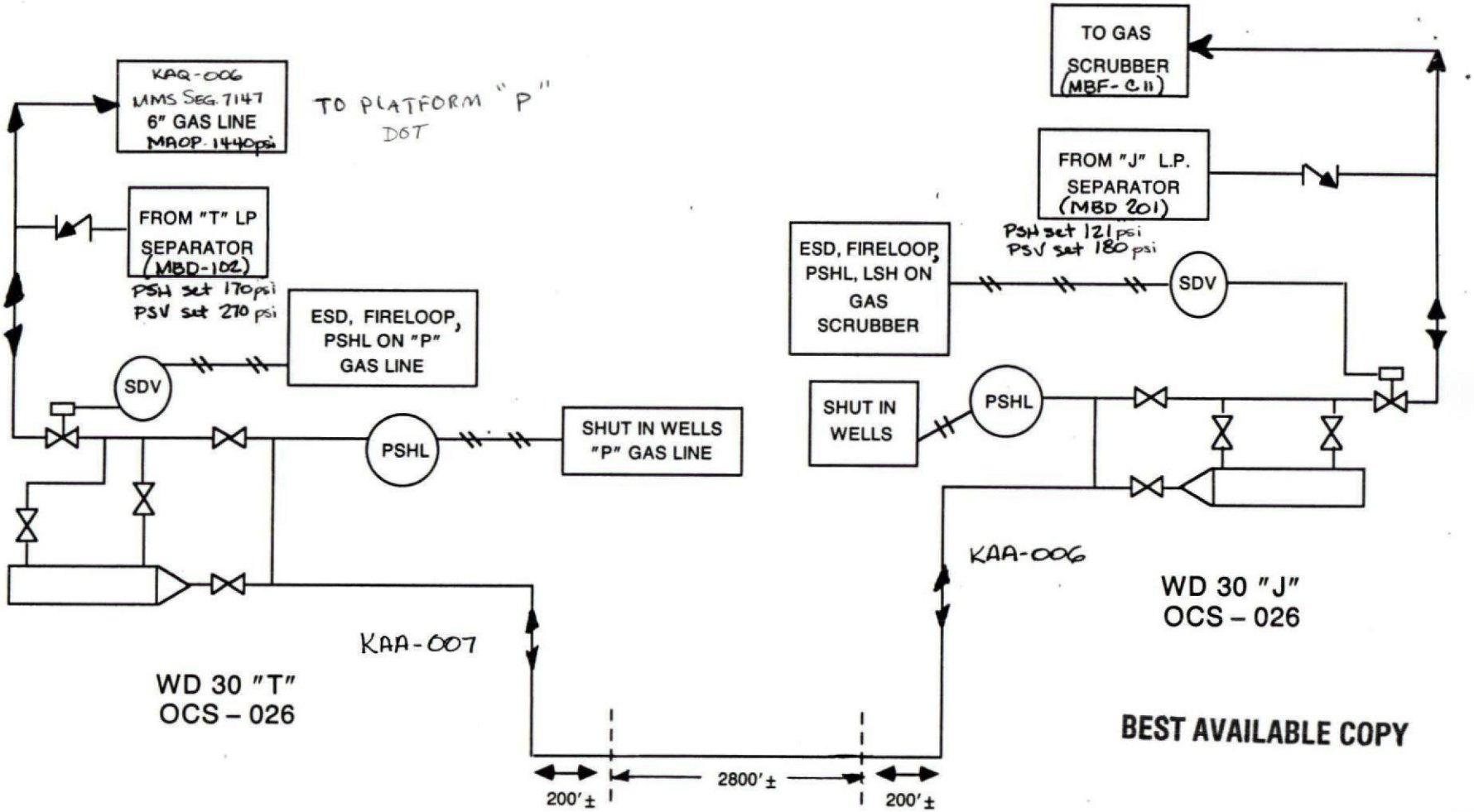
12 10 8 6 4 2 0 12000 FT.
HORIZONTAL SCALE

APPLICATION BY

EXXON COMPANY, U.S.A.
A DIVISION OF EXXON CORPORATION

PROFILE
PROPOSED 6" PIPELINE BLOCK 30 "T"
PLATFORM - BLOCK 30 "J" PLATFORM
WEST DELTA AREA, OCS-026, GULF OF MEXICO

DRAWN BY F. Conrad	CHECKED BY	DATE	REVISED	SHEET OF	FILE NO: EA-6247-3



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DESIGN INFO

RISER – DOT PART 192	1620 PSI
VALVES & FLANGES – ANSI B16.5	1480 PSI
HYDROSTATIC TEST PRESSURE	2220 PSI
MAXIMUM ALLOWABLE OPERATING PRESSURE (LIMITED BY PLATFORM PIPING)	1440 PSI

DESIGN INFO

PIPE – DOT PART 192	2335 PSI
VALVES & FLANGES – ANSI B16.5	1480 PSI
HYDROSTATIC TEST PRESSURE	2220 PSI
MAXIMUM ALLOWABLE OPERATING PRESSURE (LIMITED BY PLATFORM PIPING)	1440 PSI

DESIGN INFO

RISER – DOT PART 192	1620 PSI
VALVES & FLANGES – ANSI B16.5	1480 PSI
HYDROSTATIC TEST PRESSURE	2220 PSI
MAXIMUM ALLOWABLE OPERATING PRESSURE (LIMITED BY PLATFORM PIPING)	1440 PSI

APPLICATION BY

EXXON COMPANY, U.S.A.
A DIVISION OF EXXON CORPORATION

FLOW DIAGRAM
PROPOSED 6" PIPELINE BLOCK 30 "T"
PLATFORM – BLOCK 30 "J" PLATFORM
WEST DELTA AREA, OCS 026, GULF OF MEXICO

DRAWN BY	CHECKED BY	DATE	REVISED	SHEET	OF	FILE NO:
F. Conrad	RGS	11/11/86				EA-6247-2

L/160EC1077

7990

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

N/A a. Pipelines not covered by III above.

V. DOT Pipelines

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

VI. DOI Pipelines

N/A a. Pipelines not covered by V above.

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

✓ I. The pipeline leaving the platform receiving production from the platform is equipped with high- and low-pressure sensors 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.

FLOW FROM J – T.

✓ 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.

DEPARTURE ~ BIDERECTIONAL

X IV. The pipeline boarding the platform is equipped with a check valve.

NO V. The pipeline leaving the platform is equipped with a check valve.

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

N/A VII. Check valves are located such that the low-pressure shut-in devices in I, II, III, and VI are not isolated.

N/A 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.

NO 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 LP SEPARATOR.

✓ b. Maximum source pressure, psig 121 - 170.

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

ANSI 600

C. Verify that the location plat depicts the following:

✓ I. Location of pipeline

✓ II. Length of pipeline 3200

✓ III. Size of pipeline

✓ IV. Type of service

✓ V. Direction of flow

✓ VI. X-Y coordinates of key ponts

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 6.625

b. Weight of pipeline, lbs./ft. 28.57

c. Grade of pipeline B

d. Wall thickness, inches 0.432

e. Size of riser, inches S

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

g. Grade of riser M

h. Wall thickness of riser, inches E

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

j. Hydrostatic test pressure (HTP), psig 2220

k. Hold time, hrs. 8

l. Classification of pipeline (oil or gas) 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 rectif

✓ b. If pipeline anodes are used:

1. Type of anode GAL. III

2. Spacing interval, ft. 1100

3. Weight of unit anode, lbs. 48

II. Calculate Life Expectancy of Corrosion Protection

N/A a. If platform anodes are used, annual pipe-to-electrolyte potential measurements are required.

✓ b. If pipeline anodes are used:

$LE_{p/l} = 3.82 \times 10^4 \times W^o/DIR? =$ 26.2

W^o = weight of one anode, pounds

D = outside diameter of pipe, inches

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

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

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

III. DOT Pipelines

a. IP @ SMYS for submerged pipeline = $\frac{2st}{D}$ = 4564

b. (.72 x IP @ SMYS) for submerged pipeline = 3286 · ($MAOP_{sc}$)

c. IP @ SMYS for riser = $\frac{2st}{D}$ = 4564

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

For gas P/L (.50 x IP @ SMYS) for riser = 2282

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

f. Limit of Testing

1. For oil P/L

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

____ ≤ ~~2220~~ ≤ ~~4336~~

2. For gas P/L riser component:

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

____ ≤ 2220 ≤ 4336

3. For gas P/L submerged component:

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

____ ≤ 2220 ≤ 4336

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

1. For oil P/L HTP/1.25 = —

2. For gas P/L riser component HTP/1.5 = 1480 of riser

3. For gas P/L submerged component HTP/1.25 = 1776 or submerged component

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

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

i. MAOP of receiving pipeline from IV N/A

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

1440 ($MAOP_{p/l}$)

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

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

l. Is k > HTP

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

m. Is j ≥ MSP

1440 ≥ 170

NOTE: If not, one of the following is necessary.

— 1. Redundant safety equipment is afforded

/ 2. A departure from the requirement for redundant safety equipment.

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

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

a. Description of pipelines protective coating 12-15 MILS SCOTCHKOTE 205

b. Description of risers protective coating 11 & SPLASHTRON

c. Description of preconcrete coating —

d. Gravity or density of products:

For gas 0.65 (air = 1.0)

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

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

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

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

c. Weight of preconcrete coating (P) _____

d. K_3 (coefficients from table) _____

e. Density of concrete (dc) _____

f. Thickness of concrete (T) _____

g. K_1 (coefficient from table) _____

h. K_2 (coefficient from table) _____

III. Specific gravity for weighted pipelines:

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

IV. Specific gravity for epoxy-coated pipelines:

a. $SG_{p/l} = 2.865\ w/d^2 =$ 1.865
(w = weight of pipe, d = diameter, inches)

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

1.865 $\simeq$ 1.86

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

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

N/A 1. 18-inch minimum clearance between pipelines.

N/A 2. If pipeline is buried is there 3-feet of cover provided for the proposed pipeline?

3. Slope of sandbags

___ a. Diameter of both pipelines is ≤ 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:

N/A 1. Minimum 3-feet of cover is provided at subsea tie-in and future tie-in point(s).

N/A 2. If a birdcage is utilized it must be provided with a minimum of 3-feet of cover.

H. Verify the following general information:

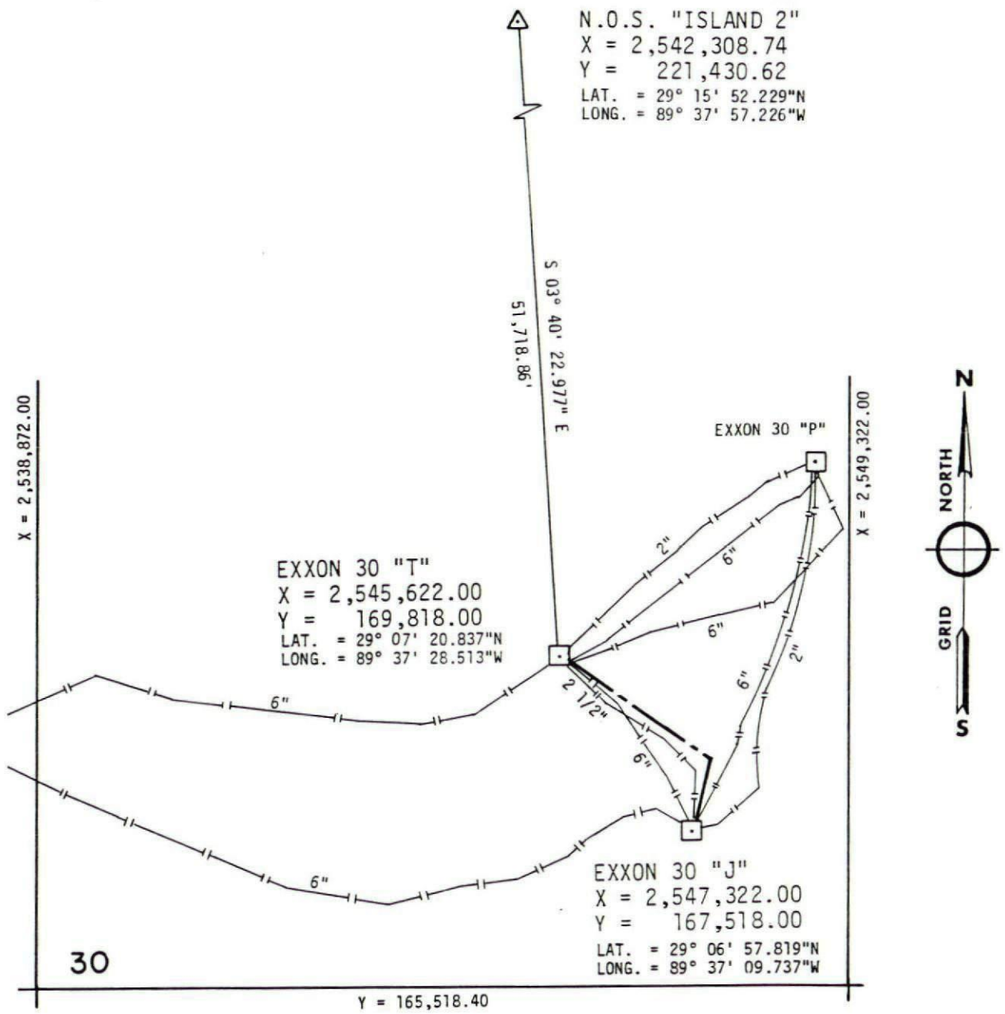
I. Water depth, ft. 50 (Max) 45 (Min)

II. Burial depth, ft. 3

III. Anticipated Operating Pressure (MOP)* ≈170

IV. Capacity 8 MSCFD

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

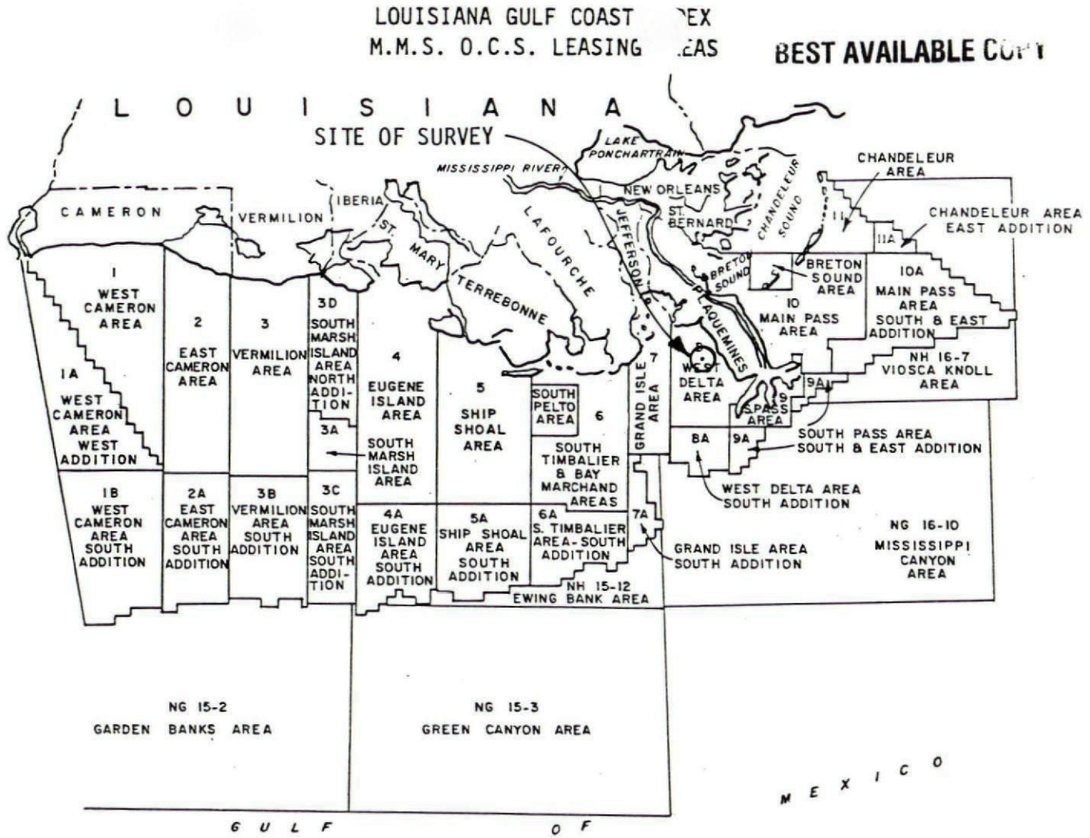


ROUTE MAP

SCALE 1:24,000

LEGEND:

- ⊡ PLATFORM (NOT TO SCALE)
- PIPELINE (EXISTING)
- RIGHT-OF-WAY (PROPOSED)



VICINITY MAP

INSTRUMENTATION:

TRISPONDER
MAGNETOMETER
SIDE SCAN SONAR
24 kHz ECHO SOUNDER
7.0 kHz SUB BOTTOM PROFILER

GENERAL NOTES:

X, Y COORDINATES, IN FEET, AND BEARINGS ARE BASED ON THE LOUISIANA STATE PLANE COORDINATE SYSTEM (LAMBERT), SOUTH ZONE.

SURVEY PERFORMED BY GULF OCEAN IN OCTOBER, 1986.

PIPELINE PRELIMINARY SURVEY SURVEY LOCATION MAP BLOCK 30 WEST DELTA AREA OFFSHORE LOUISIANA	EXXON COMPANY U.S.A. GULF OCEAN SERVICES, INC. BATON ROUGE, LOUISIANA P.O. BOX 927 70821

DRN. JFL	PREP.	CAL. RAC	APP.	FILE NO. 13-7-066-018	
CHK. RAC	CHK	CHK.	DATE 10-28-86	FIG. NO. 1	PAGE 2

BATHYMETRY AND SEAFLOOR FEATURES

The surveyed area lies in the southeastern portion of Block 30. Water depths along the proposed pipeline route increase from 47 to 50 feet between the Exxon 30-T and 30-J Platforms (see Figure 2 and Map 1). Local seafloor slope averages 0.10 percent (0.06°) southward.

Bathymetric datum is local sea level expressed as BSL (feet Below Sea Level); water depth is based on an assumed 4,990 feet per second average velocity of sound in seawater.

Side scan sonar data depict an acoustically uniform fine-textured seafloor devoid of significant naturally occurring microbathymetric features (see Figure 3). Widely scattered pockmarks less than 25 feet in diameter and 1 to 2 feet deep were recorded. Pockmarks are probably the result of gas and/or water venting from the shallow or deep subsurface (Nelson, Thor, Sandstorm, and Kvenvolden, 1979; Newton, Cunningham, and Schubert, 1980). No gas plumes were recorded in the water column.

Sonograms recorded the Exxon 30-J and 30-T platforms, the Block 29 CB well, a feature approximately 5 feet in diameter and protruding less than a foot above the seafloor about 600 feet south of the 30-T platform (See Map 1), and scattered anchor drag scars.

Geomagnetic field values ranged between 49,447 and 50,111 gammas; average intensity increased southward by 171 gammas.

Thirty-nine (39) magnetic anomalies were recorded; twenty-nine (29) are correlated to known man-made installations, and ten (10), plotted on Map 1, remain unidentified. Sonograms did not record seafloor targets in the vicinities of these anomalies, therefore, positive identification cannot be made from these survey data. They probably represent localized ferromagnetic debris on or just beneath the seafloor. Strong excursions throughout all of the magnetometer data

resulted from localized distortion of the geomagnetic field by the nearby platforms and pipelines. All of the magnetic anomalies are tabulated in Appendix B. Figure 4 illustrates a portion of magnetometer record from this survey.

SEDIMENTS AND GEOLOGIC STRUCTURE

Geologic interpretations are based on analog acoustic reflection data. Statements concerning sediment composition, texture, distribution, degree of consolidation, gas enrichment, and geologic age are based solely on these survey data except where supplemental information is referenced; they are to be considered interpretations of probable conditions present. Depth in seconds is two-way travel time; depth BML (Below Mud Line) is based on an assumed 5,000 feet per second average velocity of sound in shallow sediments.

Sub bottom profiler (7.0 kHz) data recorded acoustic stratification to an average depth of approximately 20 feet BML beneath the proposed centerline. Near-seafloor sediments comprise about 8 to 17 feet of parallel layered to amorphous strata; a weak seafloor multiple reflection throughout the area suggests that surficial sediments have undergone a moderate amount of dewatering and compaction. According to maps published by the Minerals Management Service (1983), surficial sediments in this vicinity are silty clays. Boring and geotechnical data analyzed by Fisk and McClelland (1959) indicate that near-seafloor sediments about four (4) miles northwest of Block 30 comprise soft to firm recent clays; sediments in Block 30 should be of similar nature.

The near-seafloor unit is immediately underlain by an erosional unconformity which probably represents the surface of a late Holocene delta (See Figure 5). All acoustic stratification is completely attenuated at depths of 15 feet or less below the unconformity, apparently by bubble-phase biogenic pore gas.

CONSTRUCTION HAZARDS OR CONSTRAINTS

Sediments beneath an unconformity at depths of approximately 8 to 17 feet BML appear to contain disseminated bubble-phase biogenic pore gas.

Man-made potential hazards or constraints comprise the following:

1. Exxon 30-J platform
2. Exxon 30-P platform
3. Exxon 30-T platform
4. Block 29 CB well
5. Block 29 CD well
6. Two (2) 2 inch gas injection lines
7. A 2 inch gas flowline
8. A 4 inch gas lift line in Block 29
9. Three (3) 6 inch oil flowlines
10. Two (2) 6 inch gas flowlines
11. A 6 inch gas pipeline
12. Ten (10) unidentified magnetic anomalies
13. An unidentified sonar target about 600 feet south of the 30-T platform

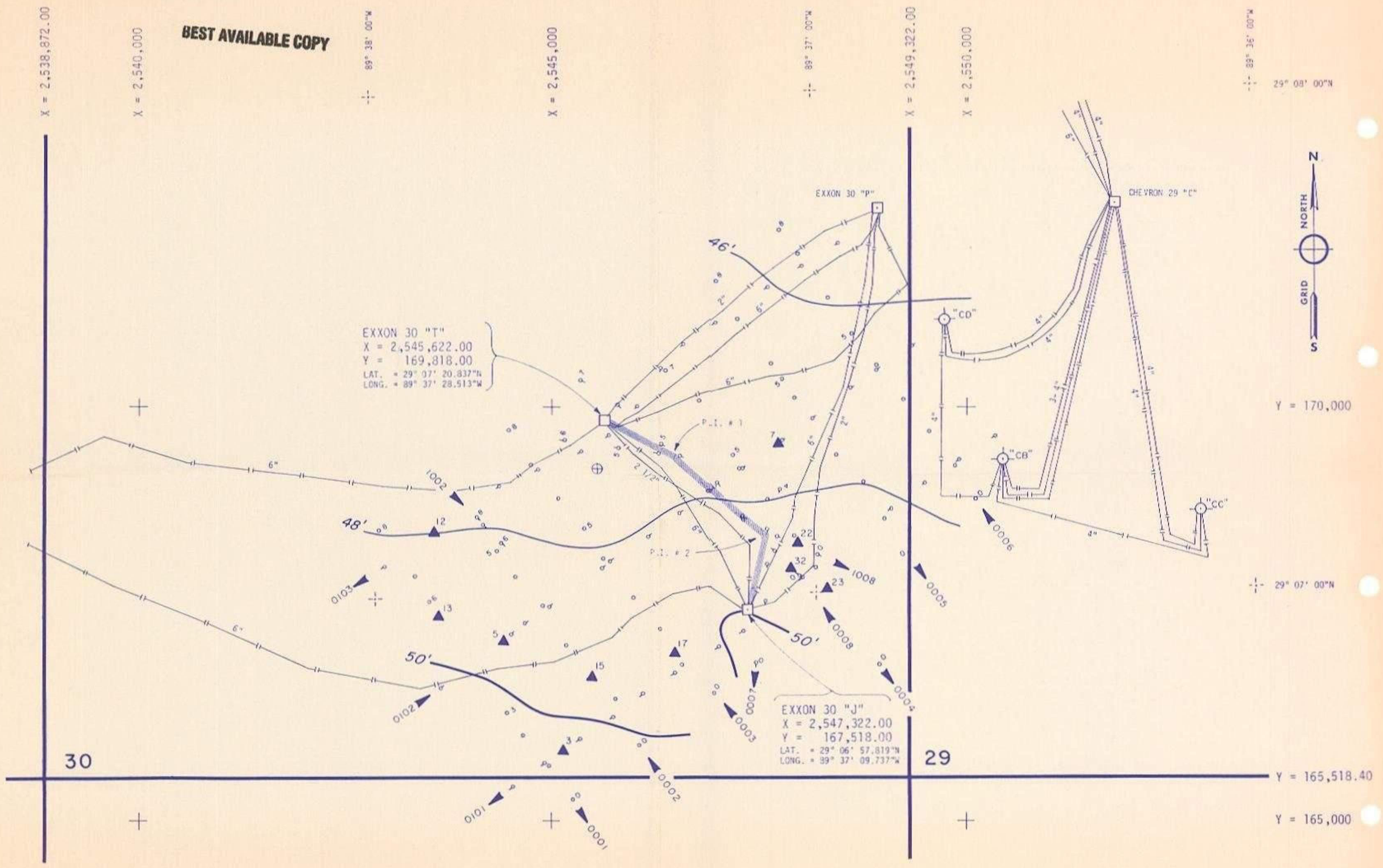
CONCLUSIONS AND RECOMMENDATIONS

Based on these survey data, the centerline of this proposed pipeline route is underlain by approximately 8 to 17 feet of probably underconsolidated clay or silty clay, which should permit for laying and easy burial of the pipeline. Possible gas expulsion and localized sediment collapse could occur if the underlying unconformity is physically penetrated.

The two (2) wells, ten (10) gas and oil pipelines, flowlines, and injection lines, ten (10) unidentified magnetic anomalies, and one (1) unidentified sonar target, if within the anchor spread of the lay barge, should be buoyed and/or avoided prior to any construction activities in their vicinities.

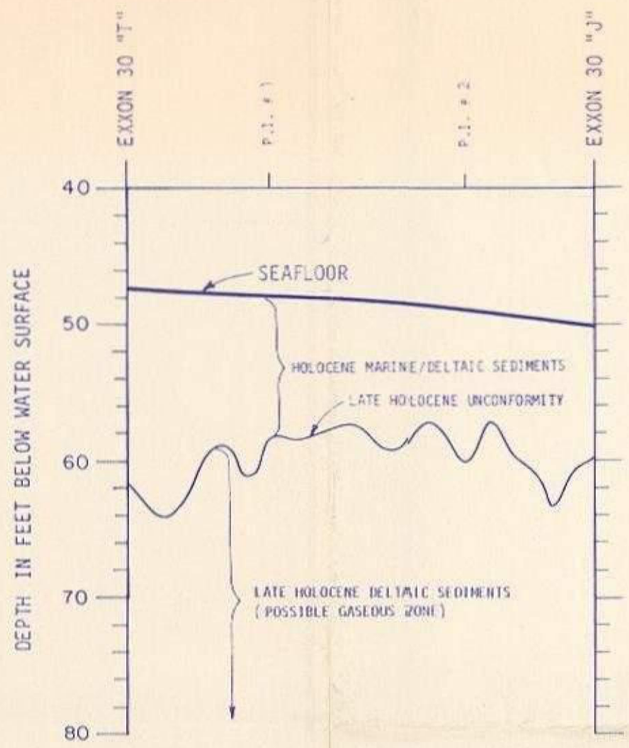
Robert T. Giles

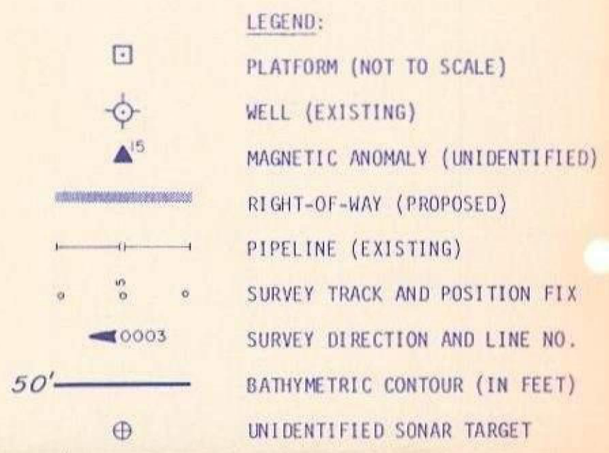
Robert T. Giles
Marine Geologist



PLAN

SCALE 1:12,000





PROFILE

HORIZONTAL SCALE 1:12,000
VERTICAL SCALE - AS SHOWN

NOTES:

Pipelines in block 30 were plotted from as-built data.

Pipelines in block 29 were plotted from M.M.S. pipeline charts.

SEE FIGURE 1 FOR GENERAL NOTES

PIPELINE PRELIMINARY SURVEY

PLAN AND PROFILE

BLOCK 30
WEST DELTA AREA

OFFSHORE LOUISIANA

EXXON COMPANY U.S.A.

GULF OCEAN SERVICES, INC.
BATON ROUGE, LOUISIANA P.O. BOX 927 70821

DRN. JFL	PREP. RTG	CAL. RAC	APP.	FILE NO. 13-7-066-06C	
CHK. RAC	CHK. RG	CHK. RP	DATE 10-28-86	FIG. NO.	MAP 1 OF 1

UNITED STATES GOVERNMENT
MEMORANDUM

April 8, 1987

To: Chief, Plans, Platform, and Pipeline Section,
Field Operations, GOM OCS Region (FO-2)

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

Subject: National Environmental Policy Act (NEPA) Review for
Action No. P-7990

Action Submitted: March 26, 1987 and December 8, 1986

Action Commence: April 1987.

Exxon Company, U.S.A.
Pipeline Application
Lease OCS 026, West Delta Block 30

The operator proposes to install a 10 3/4 inch oil pipeline and a 6 5/8 inch natural gas pipeline, both from Platform T to Platform J in Block 30.

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:

Precautions as outlined in NTL 83-3 are required due to the proximity of existing pipelines and magnetic anomalies to the proposed activities.

for Jerry Brashier

cc: Lease OCS-G 026 POD File w/CER (OPS-3-2)

BSmith:mbw:P7990cer.doc