SN4837 -

BEST AVAILABLE COPY

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In Reply Refer To: F0-2-2

FEB 0 3 1987

ANR Pipeline Company

Attention: Mr. Roland M. Lindemann

500 Renaissance Center Detroit, Michigan 48243

Gentlemen:

Your letter dated April 8, 1986, supplemented October 17, 1986, requested approval to remove the pressure safety valve (PSV) on the facilities upstream of the following pipelines:

	Pipeline Segment No.	Size (inches)	Length (feet)	Service	From	To &
1.	2294 (OCS-G 1505)	8 5/8	663	Gas/011	Platform A Eugene Island Block 63 Lease OCS 0425	A 20-inch subsea tie-in Eugene Island Block 63 Lease OCS 0425
2.	2295 (OCS-G 1503-A)	10 3/4	21,499	Gas	Platform B Eugene Island Block 158 Lease OCS-G 1220	A 20-inch subsea tie-in Eugene Island Block 175 Lease OCS 0438
3.	3651 (OCS-G 1503-A)	8 5/8	1,155	Gas	Platform B Eugene Island Block 175 Lease OCS 0438	A 10 3/4-inch subsea tie-in Eugene Island Block 175 Lease OCS 0438
4.	7984 (OCS-G 1687-B)	12 3/4	1,155	Gas	Platform A Eugene Island Block 231 Lease OCS-G 0980	A 12 3/4-inch subsea tie-in Eugene Island Block 231 Lease OCS-G 0980
5.	7278	8 5/8	12,656	Gas	Platform A Eugene Island Block 247 Lease OCS-G 1888	A 12 3/4-inch subsea tie-in Eugene Island Block 266

ANR General

G 3641

	Pipeline Segment No.	Size (inches)	Length (feet)	Service	Erom	<u>To</u>
6.	7291 (OCS-G 7538)	6 5/8	7,469	Gas	Platform A Eugene Island Block 248 Lease OCS-G 5506	A 8 5/8-inch subsea tie-in Eugene Island Block 247 Lease OCS-G 1888
7.	2303 (OCS-G 1687-0)	12 3/4	1,771	Gas	Platform C Eugene Island Block 266 Lease OCS 0811	A 24-inch subsea tie-in Eugene Island Block 266 Lease OCS 0811
8.	2304 (OCS-G 1687-A)	12 3/4	3,186	Gas	Platform E Eugene Island Block 266 Lease OCS 0811	A 24-inch subsea tie-in Eugene Island Block 266 Lease OCS 0811
9.	2302 (OCS-G 1687-K)	12 3/4	6,062	Gas	Platform F Eugene Island Block 266 Lease OCS 0811	A 24-inch subsea tie-in Eugene Island Block 266 Lease OCS 0811
).	4253 (OCS-G 1687-M)	30	147,809	Gas	Platform B Eugene Island Block 296 Lease OCS-G 2105	Platform A Eugene Island Block 188 Lease OCS 0443
ί.	4792 (OCS-G 3453)	16	23,199	Gās	Platform A Eugene Island Block 307 Lease OCS-G 2110	A 16-inch subsea tie-in Eugene Island Block 305 Lease OCS-G 2108
? .	4793 (OCS-G 3453)	16	44,034	Gas	Platform A Eugene Island Block 327 Lease OCS-G 2910	Platform B Eugene Island Block 296 Lease OCS-G 2105
•	2308 (OCS-G 1503-A)	12 3/4	93,849	Gas	Platform A South Marsh Island Block 10 Lease OCS-G 1181	A 20-inch subsea tie-in Eugene Island Block 115 (Unleased)
•	2310 (OCS-G 1687)	20	106,847	Gas	Platform A South Marsh Island Block 58 Lease OCS-G 1194	Platform A Eugene Island Block 199 Lease OCS 0437

	Pipeline Segment No.	Size (inches)	Length (feet)	Service	Erom	Ιο
.5•	2311 (OCS-G 1687-A)	24	215,468	Gas	Platform D South Marsh Island Block 108 Lease OCS 0792	Platform A Eugene Island Block 188 Lease OCS 0443
6.	4617 (OCS-G 3371)	8 5/8	5,799	Gas	Platform G South Marsh Island Block 108 Lease OCS 0792	Platform D South Marsh Island Block 108 Lease OCS 0792
7.	6661	6 5/8	2,536	Gas	Platform J South Marsh Island Block 108 Lease OCS 0792	A 24-inch subsea tie-in South Marsh Island Block 108 Lease OCS 0792
8.	6390	12 3/4	5,986	Gas	Platform B South Marsh Island Block 136 Lease OCS-G 2588	A 24-inch subsea tie-in South Marsh Island Block 137 Lease OCS-G 2589
9.	5311 (OCS-G 4014)	12 3/4	1,017	Gas	Platform A South Marsh Island Block 137 Lease OCS-G 2589	A 24-inch subsea tie-in South Marsh Island Block 137 Lease OCS-G 2589
0.	5488 (OCS-G 4157)	12 3/4	37,739	Gas	Platform A South Marsh Island Block 260 Lease OCS-G 2305	A 12 3/4-inch subsea tie-in South Marsh Island Block 249 Lease OCS-G 2301
1.	3988 (OCS-G 1693-J)	6 5/8	21,820	Gas	Platform 1 Ship Shoal Block 115 Lease OCS-G 2619	Platform 1 Ship Shoal Block 139 (Unleased)
2.	2313 (OCS-G 1687-B)	12 3/4	3,324	Gas/011	Platform A Ship Shoal Block 204 Lease OCS-G 1520	A 24-inch subsea tie-in Ship Shoal Block 204 Lease OCS-G 1520
3.	2314 (OCS-G 1687-E)	6 5/8	5,578	Gas	Platform A Ship Shoal Block 206 Lease OCS-G 1522	Platform A Ship Shoal Block 207 Lease OCS-G 1523

	Pipeline Segment No.	Size (inches)	Length (feet)	Service	From	I o
•	2315 (OCS-G 1687)	24	167,694	Gas	Platform A Ship Shoal Block 207 Lease OCS-G 1523	Platform A Eugene Island Block 188 Lease OCS 0443
•	2316 (OCS-G 1687-I)	12 3/4	8,666	Gas	Platform A Ship Shoal Block 219 Lease OCS 0829	Platform A Ship Shoal Block 204 Lease OCS-G 1520
•	5100 (OCS-G 3654)	10 3/4	86,501	Gas	Platform A Ship Shoal Block 291 Lease OCS-G 2923	A 12-inch subsea tie-in Ship Shoal Block 219 Lease OCS 0829
٠	4873 (OCS-G 3641)	6 5/8	17,612	Gas	Platform A Ship Shoal Block 292 Lease OCS-G 1042	Platform A Ship Shoal Block 291 Lease OCS-G 2923
•	6288	8 5/8	565	Gas	Platform A South Pelto Block 12 Lease OCS 072	An 8-inch subsea tie-in South Pelto Block 12 Lease OCS 072
*	6286	8 5/8	22,613	Gas	Platform A South Pelto Block 18 Lease OCS-G 3589	A 20-inch subsea tie-in South Pelto Block 13 Lease OC\$-G 3171
£	5325 (OCS-G 3922)	6 5/8	4,597	Gas	Platform B Ship Shoal Block 115 Lease OCS-G 2619	Platform A Ship Shoal Block 115 Lease OCS-G 2619
	3762 (OCS-G 1907-AA	6 5/8	13,403	Gas	Platform A Vermilion Block 182 Lease OCS-G 2074	A 30-inch subsea tie-in East Cameron Block 181 (Unleased)
	5501 (OCS-G 4033)	10 3/4	4,346	Gas	Platform A Vermilion Block 242 Lease OCS-G 3133	A 20-inch subsea tie-in Vermilion Block 241 Lease OCS-G 3132

	Pipeline Segment No.	Size (inches)	Length (feet)	Service	Econ	<u>Io</u>
3.	5503 (OCS-G 4054)	24	105,144	Gas	Platform A Vermilion Block 397 Lease OCS-G 3141	A 24-inch subsea tie-in South Marsh Island Block 137 Lease OCS-G 2589
4.	6026	6 5/8	5,565	Gas	Platform A Ship Shoal Block 135 Lease OCS-G 3164	A 26-inch subsea tie-in Ship Shoal Block 135 Lease OCS-G 3164
5.	36	10 3/4	19,332	Gas	Platform A West Cameron Block 2	To Shore
5.		10 3/4	87,395	Gas	Platform 18 West Cameron Block 17	To Shore

The safety equipment which you requested approval to eliminate is not necessary for the above pipelines numbered 1 through 33 since overpressure protection for each is provided by high pressure sensors. Therefore, these pressure safety valves (PSV) are not required by the provisions of applicable regulations and standards.

Item number 34 will be addressed under a separate cover by the Minerals Management Service, Houma District.

Item numbers 35 and 36 are not located within the Federal Outer Continental Shelf, and therefore do not come under the jurisdiction of this office.

Sincerely yours,

(Orig. Sgd.) William H. Martin

Jor. D. J. Bourgeois
Regional Supervisor
Field Operations

bcc: 1502-01 ANR General File (w/orig appln) (Schmatics filed in each segment file)

(F0-2-2)

F0-4

F0-5

F0-6

CWilliams: CWalker: mcs: 1/27/87: LEXITYPE Disk 1



ANR Pipeline Company

An American Natural Resources Company

October 17, 1986

Mr. J. Rogers Pearcy
Regional Director
U.S. Department of the Interior
Minerals Management Service
Gulf of Mexico, OCS Region
1420 South Clearview Parkway
New Orleans, LA 70123-2394



Dear Mr. Pearcy:

Attention: F0-2-2

RE: Removal of Relief Valves from ANR Facilities on Producers Offshore Platforms

ANR Pipeline Company (formerly Michigan Wisconsin Pipe Line Company) is requesting MMS approval to modify its facilities on Offshore Producer Platforms. ANR Pipeline Company included relief valves on their Safety Shut-Down Systems on producer platforms to protect their pipelines from a sudden surge or reduction in pressure.

Offshore producers must comply with Department of Interior (DOI) regulations OCS Order 9, requiring the producers to protect all gas pipelines leaving their platforms from overpressure. The DOI requirements for set points and inspections of overpressure protection are more stringent than those of the Department of Transportation (DOT).

A regulatory review conducted by ANR Pipeline Company's Codes and Standards Department has led us to conclude that the overpressure protection requirements of DOT for our facilities on these platforms are met through producer compliance to OCS Order 9. Since none of our offshore permits are conditioned on having relieving devices on our facilities, we further conclude that the relief valves that we have on producer platforms are not needed. The producers we have contacted concur. The removal of these devices would have no consequence on system safety.

Since MMS approval is required for all offshore facility modifications, ANR Pipeline Company hereby asks permission to remove the above-mentioned relief devices from their facilities on the producers' platforms located in the blocks and areas listed below:

Eugene Island Area

Block	Platform	Producer
*42	A	Chevron, U.S.A., Inc ∞5. 67585
63	Α	Hunt Oil Company
158	В	Shell Offshore (W)

500 Renaissance Center, Detroit, Michigan 48243 • (313) 496-0200

Eugene Island Area (Cont'd)

Block	Platform	Producer
175 ★208 231 247 ★247 248 266 266 266 267 296 307 ★307 327	B E A A H A C E F I B A B	Arco Oil & Gas Company Conoco Chevron, U.S.A., Inc. Samedan Oil Corporation Samedan Oil Corporation Conoco Conoco Conoco Conoco Conoco Conoco Conoco Conoco Coties Service Cities Service Service Cities Service
	South Marsh Is	land Area
Block	Platform	Producer
10 58 108 108 108 136 137 260 ★265	A D G J A	Shell Offshore (W) Shell Offshore (W) Conoco Conoco Conoco Conoco Conoco Amoco Production Company Ocean Production OCS-G-4167
	Ship Shoal	Area
Block	Platform	Producer
115 135 204 206 207 219 291	A&B A A A A A	Cities Service Ocean Production Placid Conoco Placid Amoco Production Company Placid
	South Pelt	o Area
Block	Platform	Producer
12 18	A A	ANR Production Company ANR Production Company

Vermilion Area

Block	Platform	Producer
182	Α	Mobil
242		Conoco
397	A O	Mesa Petroleum Company
	West C	ameron Area
Block	Platform	Producer
2	Α	Union Oil of California
17	0	Chevron II.S.A.

Enclosed is a copy of a list of platforms for which the MMS requested platform piping drawings, some of which were not provided at the time the original permits were issued. The list shows three platforms from which ANR no longer is receiving gas, namely, S.M.I. Block 6, Platform B; S.M.I. Block 51, Platform A; and S.M.I. Block 146, Platform A.

Please send all correspondence to my attention at ANR Pipeline Company, 500 Renaissance Center, Environmental Engineering Department, 16th Floor, Detroit, Michigan 48243. If additional information is required, please call me at (313) 496-5626.

The ANR Area Office personnel to contact for additional information are:

- or -

Mr. Melvin J. Peoples P. O. Box 53318 112 Rue Beauregard Lafayette, LA 70505 (318) 237-0314

Mr. James A. Mears P. O. Box 428 7912 South First Avenue Sabine Pass, TX 77655 (409) 983-2713

Yours truly,

Roland M. Lindemann

Sr. Permitting Specialist

c: Messrs. J. S. Chin

J. A. Mears

M. J. Peoples

T. J. Purcel

T. M. Steinbauer

M. J. Williams

May 14, 1986

TO: Mr. John Dunne FROM: M. J. Peoples

Re: Platforms That Carol Williams
MMS Requested Sketches For

Ms. Carol Williams, MMS, requested we provide sketches of our piping and facilities for the following listed platforms. Sketches were not required to be sent in with the Permit Applications when these were applied for. She said they must have these sketches prior to a decision being made on relief valve removals on the various producer platforms that are listed below:

E.I. Block 63Platform "A"	CONTRACTOR OF THE CONTRACTOR OF THE
	OCSG 1503-A OCSG 1503-A
E.I. Block 208Platform "E"	
	OCSG 1503-A
	OCSG 1687-0
	OCSG 1687-A
	OCSG 1687-K
	Segment #4390
	OCSG 1687-M
S.M.I. Blk. 6Platform "B"	OCSG 1503-B
S.M.I. Blk. 10Platform "A"	OCSG 1503-A
S.M.I. Blk. 11 None	OCSG 1503-C
S.M.I. Blk. 51Platform "A"	
S.M.I. Blk. 58Platform "A"	OCSG 1687
	OCSG 1687-A
	Segment #6661
S.M.I. Blk. 136Platform "B"	
S.M.I. Blk. 146Platform "A"	
S.S. Block 115 Well #2 and Platform "PP"	
S.S. Block 204 Well # 1	
S.S. Block 204Platform "A"	
	OCSG 1687-E
	and the second s
S.S. Block 219Platform "A"	
Verm. Block 182Platform "A"	
Verm. Block 242Platform "A"	OCSG 4033

M: J. Peoples

lrg

cc: Mr. M. J. Williams
Mr. R. M. Lindemann



ANR Pipeline Company

An American Natural Resources Company

April 8, 1986

Mr. J. Rogers Pearcy Regional Director U.S. Department of the Interior Minerals Management Service Gulf of Mexico OCS Region

P.O. Box 7944 Metairie, Louisiana 70010

Dear Mr. Pearcy:

RECEIVED

APR 1 0 1986

Minerals Management Service Rules and Production

Attention: RP-2-2

RE: Removal of Offshore Relief Devices on Producer Platforms

Offshore producers must comply with the DOI (Department of Interior) regulations OCS Order 9 requiring the producers to protect all gas pipelines leaving their platforms from over-pressure. The DOI requirements for set points and inspections of over-pressure protection are more stringent than those of the DOT (Department of Transportation).

A regulatory review conducted by ANR Pipeline Company's Codes and Standards Department has led us to conclude that the over-pressure protection requirements of DOT for our facilities on these platforms are met through producer compliance to OCS Order 9. Since none of our offshore permits are conditioned on having relieving devices on our facilities, we further conclude that the relief valves that we have on producer platforms are not needed. The producers we have contacted concur. The removal of these devices would have no consequence on system safety.

Since MMS approval is required for all offshore facility modifications, ANR Pipeline Company hereby asks permission to remove the above-mentioned relief devices from their facilities on the producers' platforms located in the blocks and areas listed below:

Eugene Island Area

<u>Block</u>	Platform	Producer
42	Α	Chevron, U.S.A., Inc.
77		Hunt Oil Co.
158		Shell Offshore (W)
175		Arco Oil & Gas Co.
208	Ε	Conoco
231		Chevron, U.S.A., Inc.
247	Α	Samedan Oil Corp.
247	н	Samedan Oil Corp.
248	Α .	Samedan Oil Corp.
266	С	Conoco
266	Ē	Conoco
266	F	Conoco

Mr. J. Rogers Pearcy April 8, 1986 Page Two

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Eugene Island Area (cont'd)

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South Marsh Island Area

<u>Block</u>	Platform	Producer
6		Exxon
10		Shell Offshore (W)
11	9	Texaco
51		Shell Offshore (W)
58		Shell Offshore (W)
108	D	Conoco
108	G J	Conoco
108	J	Conoco
136		Conoco
137		Conoco
146		Aminoil U.S.A.
260		Amoco Production Co.
265		Ocean Production

Ship Shoal Area

Block	Platform	Producer
115		Cities Service
135		Ocean Production
204		Placid
206		Conoco
207	1g	Placid
219		Amoco Production Co.
291		Placid
292		Amoco Production Co.

Mr. J. Rogers Pearcy April 8, 1986 Page Three

South Pelto Area

Block	<u>Platform</u>	Producer
12	A	ANR Production Co.
18	Α	ANR Production Co.

Vermilion Area

Block	Platform	Producer
182		Mobil
242		Conoco
397		Mesa Petroleum Co.

West Cameron Area

Block	Platform	Producer
2		Union Oil of California
17		Chevron, U.S.A.
71		Mob i 1

Please send all correspondence to my attention at ANR Pipeline Company, 500 Renaissance Center, Environmental Engineering Department, 16th floor, Detroit, Michigan 48243. If additional information is required, please call me at (313) 496-5626.

The ANR Area Office personnel to contact for additional information are:

Mr. Melvin J. Peoples Area Manager P.O. Box 53318 112 Rue Beauregard Lafayette, LA 70505 (318) 237-0314 -or-

Mr. James A. Mears Area Manager P.O. Box 428 7912 South First Ave. Sabine Pass, TX 77655 (409) 983-2713

Yours truly,

Roland M. Lindemann

Sr. Permitting Specialist

df

c: Messrs. J. S. Chin

J. A. Mears

T. J. Purcel M. J. Williams

M. J. Peoples

RECEIVED

APR I 0 1986

Minerals Management Service Rules and Production



UNITED STATES GOVERNMENT MEMORANDUM

January 27, 1987

To:

Regional Supervisor, Field Operations, Gulf of Mexico OCS Region (FO)

(Attention: C. Williams)

From:

District Supervisor, Houma District, Gulf of Mexico OCS Region

(F0-4)

Subject: Removal of Pressure Safety Valves

Your memorandum of November 19, 1986, transmitted for our review a copy of ANR Pipeline Company's letter and attachments requesting the removal of pressure safety valves (PSV's) from their facilities. Specifically, ANR requests approval to remove PSV's from the following departing pipelines:

Pipeline Segment No.	Size (Inches)	Length (Feet)	Service	From	<u>To</u>
3988 (OCS-G 1693-J)	6 5/8	21,820	Gas	Platform 1 Ship Shoal Area Block 11·5 Lease OCS-G 2619	Platform 1 Ship Shoal Area Block 139 Unleased
2313 (OCS-G 1687-B)	12 3/4	3,324	Gas/Oil	Platform A Ship Shoal Area Block 204 Lease OCS-G 1520	Subsea tie-in with 24" pipeline Ship Shoal Area Block 204 Lease OCS-G 1520
2314 (OCS-G 1687-E)	6 5/8	5,578	Gas	Platform A Ship Shoal Area Block 206 Lease OCS-G 1522	Platform A Ship Shoal Area Block 207 Lease OCS-G 1523
2315 (OCS-G 1687)	24	167,694	Gas	Platform A Ship Shoal Area Block 207 Lease OCS-G 1523	Platform A Eugene Island Area Block 188 Lease OCS 0443
2316 (OCS-G 1687-I)	12 3/4	8,666	Gas	Platform A Ship Shoal Area Block 219 Lease OCS 0829	Platform A Ship Shoal Area Block 204 Lease OCS-G 1520
5100 (OCS-G 3654)	10 3/4	86,501	Gas	Platform A Ship Shoal Area Block 291 Lease OCS-G 2923	Subsea tie-in with 12" pipeline Ship Shoal Area Block 219 Lease OCS 0829

G3641

Pipeline Segment No.	Size (Inches)	Length (Feet)	Service	From	То
4873 (OCS-G 3641)	6 5/8	17,612	Gas o	Platform A Ship Shoal Area Block 292 Lease OCS-G 1042	Platform A Ship Shoal Area Block 291 Lease OCS-G 2923
6288	8 5/8	565	Gas	Platform A South Pelto Area Block 12 Lease OCS 072	Subsea tie-in with 8" pipeline South Pelto Area Block 12 Lease OCS 072
6286	8 5/8	22,613	Gas	Platform A South Pelto Area Block 18 Lease OCS-G 3589	Subsea tie-in with 20" pipeline South Pelto Area Block 13 Lease OCS-G 3171
5325 (OCS-G 3922)	6 5/8	4,597	Gas	Platform B Ship Shoal Area Block 115 Lease OCS-G 2619	Platform A Ship Shoal Area Block 115 Lease OCS-G 2619

Additionally, ANR requested approval to remove the PSV located on the header upstream of the following pipeline.

Pipeline	Size	Length		,	
Segment No.	(Inches)	(Feet)	Service	From	To
6026	6 5/8	5,565	Gas	Platform A Ship Shoal Area Block 135 Lease OCS-G 3164	Subsea tie-in with 26" pipeline Ship Shoal Area Block 135 Lease OCS-G 3164

The pipelines and header are protected from overpressure by pressure safety high (PSH) sensors. The PSV's located on the pipelines and header are not a required safety device and their removal meets with applicable regulations. Therefore, we give consent to ANR's request to remove PSV's on the departing pipelines and header.

James D. Browl

cc: Lease OCS-G 2619 Platform No. 1 w/ltr (F0-4) Lease OCS-G 1520 Platform A w/cy ltr (F0-4) Lease OCS-G 1522 Platform A w/cy ltr (F0-4) Lease OCS-G 1523 Platform A w/cy ltr (F0-4) OCS 0829 Platform A w/cy ltr (F0-4)

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Lease OCS-G 2923 Platform A w/cy 1tr (FO-4)
Lease OCS-G 1042 Platform A w/cy 1tr (F0-4)
Lease OCS 072 Platform A w/cy 1tr (F0-4)
Lease OCS-G 3589 Platform A w/cy 1tr (FO-4)
Lease OCS-G 2619 Platform A w/cy 1tr (FO-4)
Lease OCS-G 3164 Platform A w/cy 1tr (FO-4)
1104-02 (FO-4)
Lease OCS-G 2619 w/cy 1tr (OPS-3-2)
Lease OCS-G 1520 w/cy 1tr (OPS-3-2)
Lease OCS-G 1522 w/cy 1tr (OPS-3-2)
Lease OCS-G 1523 w/cy 1tr (OPS-3-2)
Lease OCS 0829 w/cy 1tr (OPS-3-2)
Lease OCS-G 2923 w/cy 1tr (OPS-3-2)
Lease OCS-G 1042 w/cy 1tr (OPS-3-2)
Lease OCS 072 w/cy 1tr (OPS-3-2)
Lease OCS-G 3589 w/cy 1tr (OPS-3-2)
Lease OCS-G 3164 w/cy 1tr (OPS-3-2)
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JDBrock:bb/DiscII/43

UNITED STATES GOVERNMENT MEMORANDUM

November 19, 1986

To:

District Supervisor, Houma District, Gulf of Mexico OCS Region

(FO-4) (Attention: Mr. James Brock)

From:

Supervisor, Platform/Pipeline Unit, Plans, Platform, and Pipeline

Section, Field Operations, Gulf of Mexico OCS Region (FO-2-2)

Subject: Departure Request

Transmitted herewith, for your review is a copy of ANR Pipeline Company's letter of October 17, 1986, requesting departures from the requirements of OCS Order No. 9. Specifically, ANR Pipeline Company requests approval to remove relief devices from their facilities on the following pipelines:

					CAC .
Pipeline Segment No.	Size (inches)	Length (feet)	Service	Erom	Ie .
3988 (OCS-G 1693-J)	6 5/8	21,820	Gas	Platform 1 Ship Shoal Area Block 115 Lease OCS-G 2619	Platform 1 Ship Shoal Area Block 139 Unleased
2313 (OCS-G 1687-B)	12 3/4	3,324	Gas/011	Platform A Ship Shoal Area Block 204 Lease OCS-G 1520	Subsea tie-in with 24" pipeline Ship Shoal Area Block 204 Lease OCS-G 1520
2314 (OCS-G 1687-E)	6 5/8	5,578	Gas	Platform A Ship Shoal Area Block 206 Lease OCS-G 1522	Platform A Ship Shoal Area Block 207 Lease QCS-G 1523
2315 (OC\$-G 1687)	24	167,694	Gas	Platform A Ship Shoal Area Block 207 Lease OCS-G 1523	Platform A Eugene Island Area Block 188 Lease OCS 0443
2316 (OCS-G 1687-I)	12 3/4	8,666	Gas	Platform A Ship Shoal Area Block 219 Lease OCS 0829	Platform A Ship Shoal Area Block 204 Lease OCS-G 1520
5100 (OCS-G 3654)	10 3/4	86,501	Gas	Platform A Ship Shoal Area Block 291 Lease OCS-G 2923	Subsea tie-in with 12" pipeline Ship Shoal Area Block 219 Lease OCS 0829

Pipeline Segment No.	Size (inches)	Length (feet)	Service	Erom	To
4873 (OCS-G 3641)	6 5/8	17,612	Gas	Platform A Ship Shoal Area Block 292 Lease OCS-G 1042	Platform A Ship Shoal Area Block 291 Lease OCS-G 2923
6288	8 5/8	565	Gas	Platform A South Pelto Area Block 012 Lease OCS 0072	Subsea tie-in with 8" pipeline South Pelto Area Block 012 Lease OCS 0072
6286	8 5/8	22,613	Gas	Platform A South Pelto Area Block 18 Lease OCS-G 3589	Subsea tie-in with 20" pipeline South Pelto Area Block 13 Lease OCS-G 3171
5325 (OCS-G 3922)	6 5/8	4,597	Gas	Platform B Ship Shoal Area Block 115 Lease OCS-G 2619	Platform A Ship Shoal Area Block 115 Lease OCS-G 2619
					CONTRACTOR STREET, ST.

Your final action is requested for approval to remove the relief valve located on the header upstream of the following pipeline.

Pipeline Segment No.	Size (inches)	Length (feet)	Service	Eron	Io.
6026	6 5/8	5,565	Gas	Platform A Ship Shoal Area Block 135 Lease OCS-G 3164	Subsea tie-in with 26" pipeline Ship Shoal Area Block 135 Lease OCS-G 3164

Robert F. Kelly

cc: (1502-01 ANR Pipeline Company (Seg. No. 6026) (F0-2-2)

CW1111ams:mcs:LEXITYPE Disk 1



UNITE. TATES DEPARTMENT OF TH

NTERIOR SN 4873

MINERALS MANAGEMENT SERVICE
GULF OF MEXICO REGION

IMPERIAL OFFICE BLDG., 3301 N. CAUSEWAY BLVD.

P. O. BOX 7944

METAIRIE, LOUISIANA 70010

504-837-4720

In Reply Refer To: LE-3-1

N. O. Misc. No. 160

October 9, 1984

ACTION

ANR PIPELINE COMPANY

Right-of-Way

CHANGE OF NAME RECOGNIZED

On October 4, 1984, there was filed in this office evidence of change of name from Michigan Wisconsin Pipe Line Company to ANR PIPELINE COMPANY, effective January 1, 1984.

In connection with this change, the following evidence was received:

- Certificate duly executed by Lewis R. Hellman, Secretary of ANR PIPELINE COMPANY on March 8, 1984, reflecting the following:
 - A. Officers listed therein are empowered to execute for and on behalf of the company;
 - B. Attached thereto are true and correct copies of the Certificate of Amendment of Certificate of Incorporation including the Certificate of the Secretary of State of the State of Delaware;
 - C. ANR PIPELINE COMPANY is incorporated under the laws of the State of Delaware;
 - D. ANR PIPELINE COMPANY is authorized to hold mineral leases and/or rights-of-way on the Outer Continental Shelf;
- Copy of a resolution unanimously adopted by Consent Action of the Board of Directors of ANR PIPELINE COMPANY as of September 25, 1984, duly certified by Lewis R. Hellman, Secretary of the corporation, on October 3, 1984;
- 3. Bond Rider to be attached to and form a part of Outer Continental Shelf Right-of-Way Grant Bond Number U 76 88 93 changing the name of the principal from Michigan Wisconsin Pipe Line Company to ANR PIPELINE COMPANY, effective January 1, 1984;

barel

 Listing of the pipeline rights-of-way to be affected by the change of name.

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

OCS-G NO.	OCS-G NO.	OCS-G NO.
1503	3353	4023
1503-A	3367	4033
1503-B	3371	4052
1505	3427	4053
1687	3428	4054
1687-A	3429	4151
1687-B	3453	4157
1687-D	3456	4159
1687-E	3457	4167
1687-I	3623	4168
1687-K	3625	4272
1687-M	3641	4278
1693-J	3642	4279
1905	3653	4280
1907-AA	3654	4293
2124	3847	4312
2124-A	3859	4621
2124-B	3922	5138
2124-D	3923	5155
2124-E	4014	5266

John L. Rankin Regional Director

cc:

Lessee/Grantee and Associates Case Files N. O. Misc. No. 160



SN 4873





United States Department of the Interior

OCS-G 3641

BUREAU OF LAND MANAGEMENT

NEW ORLEANS OUTER CONTINENTAL SHELF OFFICE

HALE BOGGS FEDERAL BUILDING 500 CAMP STREET-SUITE 841 NEW ORLEANS, LA. 70130 Ship Shoal Area, South Addition

October 17, 1979

OCT 2 3 1979

DECISION

Michigan Wisconsin Pipe Line Company Right of Way for Pipe Line

Data of Damit. 2/22/70

Date of Permit: 2/23/78

Decision Requesting Proof of

Construction Dated:

Proof of Construction

Received: 9/27/79

Proof of Construction Accepted

:

The above-captioned permittee has submitted the evidence required by the law and regulations 43 CFR 2883.2-3(a). The proof of construction is hereby accepted and approved, with minor deviation.

John L. Rankin

Manager

CC: U. S. Geological Survey (w/dwgs. and reports)

MOTED-NE INTOSH

Ford, Bacon & Pavis

Construction Corporation

TELEPHONE 318/388-1530

ENGINEERS – CONSTRUCTORS

3901 JACKSON STREET P. O. BOX 1762 MONROE, LOUISIANA 71201

September 24, 1979

TWX: 510-977-5395

H-2502B MW-0S-3.2

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

Dear Mr. Rankin:

OCS-G-3641 Block 291 to Block 292 Ship Shoal Area

In accordance with the requirements contained in the above referenced decision, we have enclosed three (3) copies of the as-built drawings indicating the route of the 6-5/8-inch pipeline. This routing is shown on drawings 0-22E as trunk number 612-32. In addition to the as-built maps we have enclosed three (3) copies of the hydrostatic test reports for the line pipe and related facilities. This work was completed in October of 1978.

All requirements of the individual leaseholders have been met. Should you require additional data concerning this project, please contact our office to the attention of the writer.

Very truly yours,

W. K. Peaker

Project Manager - Offshore

crn Enclosure

cc: Mr. Walter Dunn Ms. Alta B. Lawn

PRESSURE TEST REPORT AMERICAN NATURAL SERVICE COMP

--- VI

Michigan Wisconsin Pipe Line Company

BE

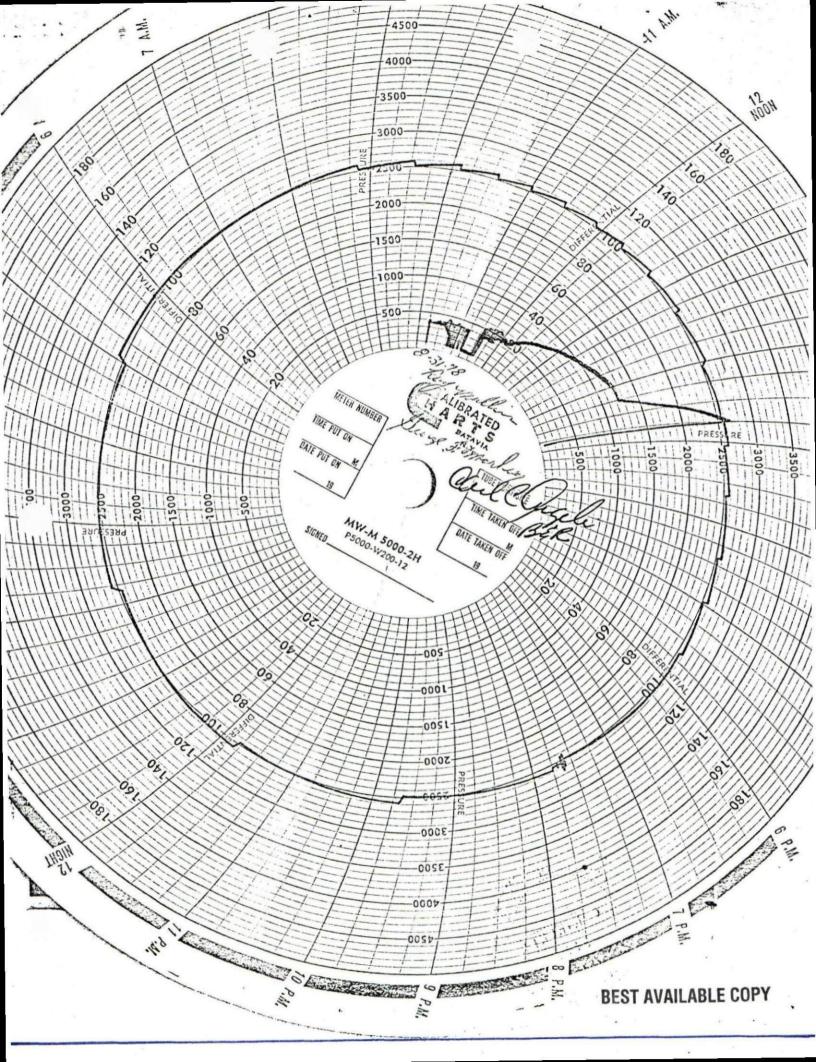
ST AVAILABLE COPY	Beport No. 78-22-1
SI AVAILABLE GOI .	1986 / 4

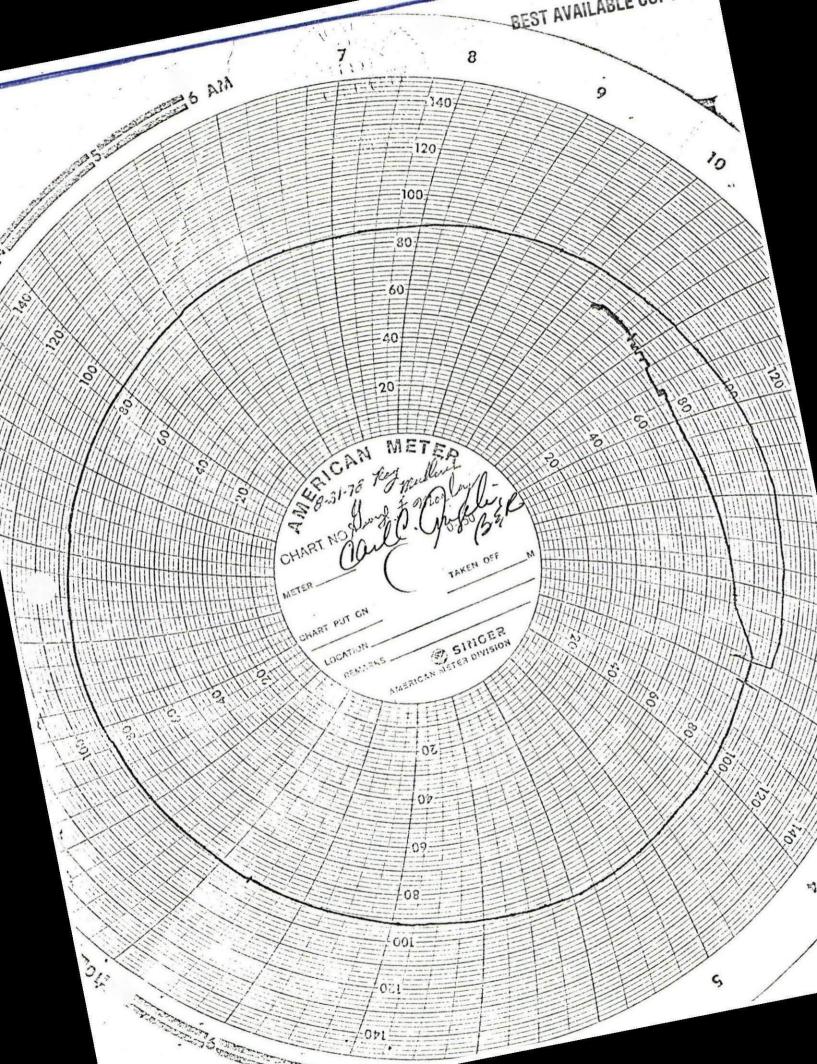
Great Lakes Gas Transmission Company	Sheet
Project Name: Ship Shoal Blk. 291A to 292 and 291A to 21 State: Offshore, Louisiana County: C	9 Design Pressure: 1300 PSIG Outer Continental Shelf
Job No.: H-2159-B Work Order N	A
Construction Contractor: Brown and Root, Inc.	The same
Testing Contractor: Brown and Root, Inc.	
Test Medium: ☐ Water ☐ Gas ☐ Air	Other
COMPLETE FOR PIPELINE TI	ESTONLY
Limits: M.P Station + to	M.P +
Pipe Specifications: "O.D. X "W.T. Grade	Manuf.
Gauge Point Pressure: Maximum PS	IG, MinimumPSIG
Gauge Point Elevation: Ft.	Station +
Low Point Pressure: PSIG E	levation: Ft.
High Point Pressure: PSIG E	levation: Ft.
Drawing No.	
COMPLETE FOR ASSEMBLY	
Test Pressure: Maximum PSIG, Mir	nimum: 2470 PSIC
Description of Assembly-Including Related Drawing Numbers: Drawing	#AL-PL-01-88, 8" Tap Connection in
Ship Shoal Block 219A; M(LA)DP 903, 10" Riser Assemb	ly for Placid Oil Co. Platform 291A,
Ship Shoal Blk.291	
M(LA)DP 901, 6" Riser Assembly for Placid Oil Co. P	latform 291A, Ship Shoal Block 291
M(LA)DN-901, 6" Riser Assembly for Amoco Platform 2	92A, Ship Shoal Block 292
TESTING EQUIPME	
Pressure Pump: Make: N/A Serial No.: 6610	Capacity: Gals/Stroke
Deadweight Gauge: Make: Chandler	Serial No.: 9249
Pressure Recorder: Make: Foxboro	Serial No.: 242A-1073
Temperature Recorder: Make: Foxboro	Serial No.: 265A-2032

						-
8/30/78		EADWEIGHT F	Date Test Off	SIG)	BEST A	VAILABLE COPY
PRESSURE PSIG	TEMP °F AMB. PIPE	REMARKS	TIME A.M. P.M.	PRESSURE PSIG	TEMP. F AMB. PIPE	REMARKS
2600	76 93	Begin Test	2300 Hr	2500	71 90	
2600	76 93	2580 PSIG	2345 HR	2490	71 190	* 2600 PSIG
2592	78 94		2400 HR	2584	71 [88	8/30/78 Midnight
2600	78 94	2555 PSIG	0100 HR	2540	70 87	8/31/78 a.m.
2581	78 96		0200 HR	2500	69 86	
2600	78 95	2555 PSIG	0212 HR	2485	70 86	* 2600 PSIG
2600	79 96	2560 PSIG	0300 HR	2575	70 86	
2593	78 96	, z	0400 HR	2532	70 86	2. 66
2600	78 97	2580 PSIG	0500 HR	2486	70 85	* 2600 PSIG
2590	78 96		0600 HR	2590	69 85	
2580	78 96		0700 HR	2555	69 85	
2510	76 94		0800 HR	2564	75 87	
2500	75 92	* 2600 PSIG	0850 HR	2600	83 90	2550 PSIG
2580	75 92	<u> </u>	0900 HR	2560	84 91	14
2500	74 90		0935 HR	2600	90 92	2550 PSIG
2490	73 90	* 2600 PSIG	1005 HR	2600	90 94	2550 PSIG
2565	72 90		1035 HR	2600	96 95	2550 PSIG
Repressure	Bleed	8	For	Additional Rea	dings Use New	Form
1935 HRS	- Air lock	in pressure h	nose		EROWN 8	ROOT, INC,
					P.O. BO	X 425
	T.				HARVEY	70058
			(6)		offshore	OME
tions: <u>Cle</u>	ar to Party	Cloudy and Wa	ırm			300 Sept. 100 Se
Company Repre	esentative): R	oy Mullins			Date:	8/31/78
presentative: _	RY	query.			Date:	10/30/18
Scott			is 38.9	×D.	Date:	10/20/78
\$\frac{1}{2} \tau_{\cdot 0}	1. Reak	~	761		Date:	10-20-78
	2600 2600 2592 2600 2592 2600 2581 2600 2593 2600 2590 2580 2510 2500 2580 2500 2490 2565 Repressure 1935 HRS	PRESSURE TEMP*F AMB. PIPE	PRESSURE FIG AMB. PIPE REMARKS 2600 76 93 Begin Test 2600 76 93 2580 PSIG 2592 78 94 2600 78 94 2555 PSIG 2581 78 96 2600 79 96 2550 PSIG 2600 79 96 2560 PSIG 2593 78 96 2600 78 97 2580 PSIG 2590 78 96 2590 78 96 2590 78 96 2510 76 94 2500 75 92 * 2600 PSIG 2580 75 92 2500 74 90 2490 73 90 * 2600 PSIG 2565 72 90 Repressure Bleed 1935 HRS - Air lock in pressure begins or sentative: Scott Davis Deads Dace **Company Representative}: Roy Mullins **Company Representative}: Roy Mullins	PRESSURE AMB. PIPE REMARKS A.M. P.M.	PRESSURE AMB. PIPE REMARKS AM. P.M. PRESSURE AMB. PIPE REMARKS AM. P.M. PSIGE AMB. PIPE AMB. PIPE AMB. PIPE AMB. PIPE AMB. PIPE AMB. PIPE PSIGE 2300 Hr 2500 2600 76 93 2580 PSIG 2345 HR 2490 2592 78 94 2400 HR 2584 2600 78 94 2555 PSIG 0100 HR 2540 2581 78 96 0200 HR 2500 2600 78 95 2555 PSIG 0212 HR 2485 2600 79 96 2560 PSIG 0300 HR 2575 2593 78 96 0400 HR 2532 2600 78 97 2580 PSIG 0500 HR 2486 2590 78 96 0600 HR 2590 2580 78 96 0600 HR 2590 2580 78 96 0700 HR 2555 2510 76 94 0800 HR 2564 2500 75 92 * 2600 PSIG 0850 HR 2600 2580 75 92 * 2600 PSIG 0850 HR 2600 2580 75 92 * 2600 PSIG 0850 HR 2600 2565 72 90 1035 HR 2600 2565 72	PRESSURE TEMP*F REMARKS A.M. P.M. PRESSURE TEMP*F AMB. PIPE REMARKS A.M. P.M. PRESSURE TEMP*F AMB. PIPE AMB. PIP

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							Sheet	2 of 2
•	Date Test On 8/	30/78		DEADWEIGHT	READINGS (ن) B 8/31/78	EST AVAILA	BLE COPY
{	A.M. P.M.	PRESSURE PSIG	TEMP *F AMB, PIPE	REMARKS	TIME A.M. P.M.	PRESSURE PSIG	TEMP. F AMB. PIPE	· REMARKS
	1100 HR	2600	95 95	2550 PSIG			1	
	1130 HR	2600	98 98	2550 PSIG			i	T 180
	1158 HR	2600	102 100	2550 PSIG				
•	1228 HR	2600	100 101	2550 PSIG			1	
	1245 HR	2600	101 99	2550 PSIG		4	1.	
	1320 HR	2600	102 98	2550 PSIG		κ.		etali A
	1400 HR	. 2600	102 96	2550 PSIG				1 1 2
	1445 HR	2600	102 96	End Test		-		,
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2				1				





PRESSURE TEST REPORT

Michigan Wisconsin Pipe Line Company	BEST AVAILABLE COPY	Report No78	Report No			
☐ Michigan Consolidated Gas Company ☐ Great Lakes Gas Transmission Company	DEST AVAILABLE COLT	Sheet	of _2			
Project Name: Ship Shoal Blk. 291	A to 292 and 291A to 219 Design Pressure:	1300	PSIG			
State: Offshore Louisiana	County: Outer Continenta	1 Shelf				
Job No.: H-2159-B	Work Order No.: 4497 and 4	498				
Construction Contractor: Brown and R	oot, Inc.					
Testing Contractor: Brown and R	oot, Inc.					
Test Medium: X Water	☐ Gas ☐ Air ☐ Other	. 12 14				
	COMPLETE FOR PIPELINE TEST ONLY					
Limits: M.P Station	to M.P.	Station	+			
Pipe Specifications:	D. X M.T. Grade M.	lanuf.	14			
Gauge Point Pressure: Maximum	PSIG, Minimum		PSIG			
Gauge Point Elevation:	Ft. Station	+.				
Low Point Pressure:	PSIG Elevation:		Ft.			
High Point Pressure:	PSIG Elevation:		Ft.			
Drawing No.		* :				
	COMPLETE FOR ASSEMBLY TEST ONLY	, (
Test Pressure: Maximum2600	PSIG, Minimum: 2470		PSIG			
Description of Assembly-Including Related	Drawing Numbers:					
Drawing #M(LA)DP-902, Sheet 1	& 2 of 3, Deck Piping, Meter Runs a	nd Assembly	Piping Blk. 29			
Drawing #M(LA)DP-903, Sheet 1	of 2 from Riser Elevation +7.6' up	Blk. 291				
Drawing #M(LA)DP-901, Sheet 1	of 2 from Riser Elevation +7.6' up,	Blk. 292	****			
Drawing MM(LA)DN-902 Sheet 1	of 1, M(LA)DN-903 Sheet 2 of 2 Extra	Piping for	Block 292A			
	2	V.	*			
	TESTING EQUIPMENT					
Pressure Pump: Make: Ude11	Serial No.: B & R # 001 Capacit	y:033	Gals/Stroke			
Deadweight Gauge: Make: Chandler	Serial No.: B & R	# 002				
Pressure Recorder: Make: Barton	Serial No.: 242 A	1073				
Temperature Recorder: Make: Barto	on Serial No.: 265 A	\2032				

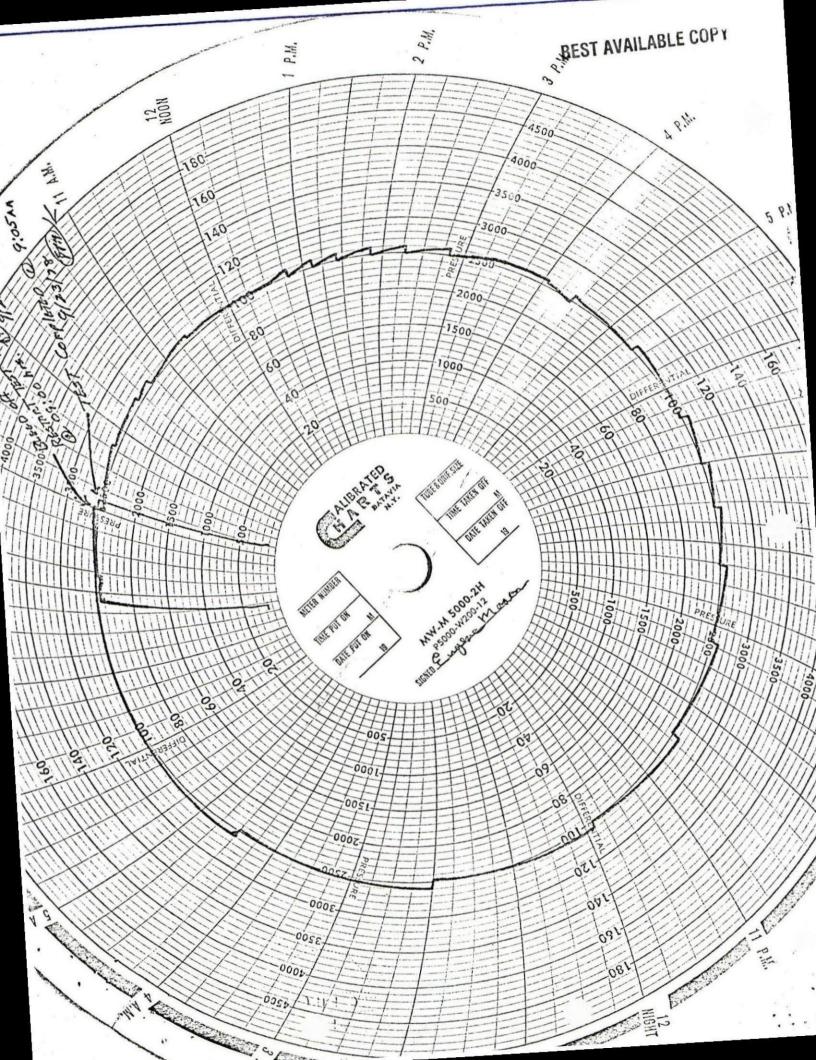
Date Test On 9	/22/78		EADWEIGHT	READINGS (P	SIG) 9/23/78	BEST A	VAILABLE COPY
		TEMP *F		TIME	PRESSURE	TEMP, °F	3
P.M.	PRESSURE PSIG	AMB. PIPE	REMARKS	A.M. P.M.	PSIG	AMB. PIPE	REMARKS
0740 HR			STARTED PRESSURING	1130 HR	2560	80 92	
0755 HR	2490	78 84		1200 HR	2530	77 89	Noon
0815 HR	2520	78 84		1230 HR	2519	78 88	
0830 HR	2540	78 86	A	1243 HR	2600	82 92	2500 PSIG
0845 HR	2560	79 87	X	1300 HR	2574	84 94	
0855 HR	2600	79 87	2455 PSIG TEST	1308 HR	2600	84 95	2500 PSIG
0900 HR	2470	80 87	STARTED	1325 HR	2600	85 96	2500 PSIG
0915 HR	2502	80 87	di ta	1350 HR	2600	85 96	2500 PSIG
0930 HR	2540	80 88		1415 HR	2600	85 97	2500 PSIG
0945 HR	2600	80 89	2550 PSIG	1430 HR	2542	86 97	
1000 HR	2569	78 88		1450 HR	2600	86 97	2500 PSIG
1015 HR	2582	.79 88		1500 HR	2520	86 97	
1022 HR	2600	78 89	2550 PSIG	1530 HR	2590	86 98	
1030 HR	2569	79 90		1600 HR	2595	85 ₁ 96	
1039 HR	2600	80 90	2520 PSIG	1605 HR	2600	85 96	2555 PSIG
1100 HR	2560	81 91	7	1625 HR	2480	82 94	* 2600 PSIG
1120 HR	2600	81 92	2550 PSIG	1700 HR	2530	83 94'	
Indicators:	Repressure	 Bleed 	*	For	Additional Rea	dings Use New I	Form
Comments:	At 0900 Hr	s. test had	d to be restar	ted because	testing to	chnician b	led pressure to
below min	imum requi	rements and	d had to repre	ssure.		BROWN & RO	107 THE 1133
•						P.O. BOX	
	*	.A				HARVEY	2. 700E8
Weather Condit	tions: Cle	ear and hot	to cloudy and	rain		PPShoke K	ge I
To : /0	Company Repre	rentatival. G	eorge F. Black			D	9/23/78
Te tness (C		00	very			Date: .	10/30/78
Reviewed by:		0	tt Davis	7B+D		The second of	10/20/78
Approved by:	A de	Sealur	/				10-20-78
	-						

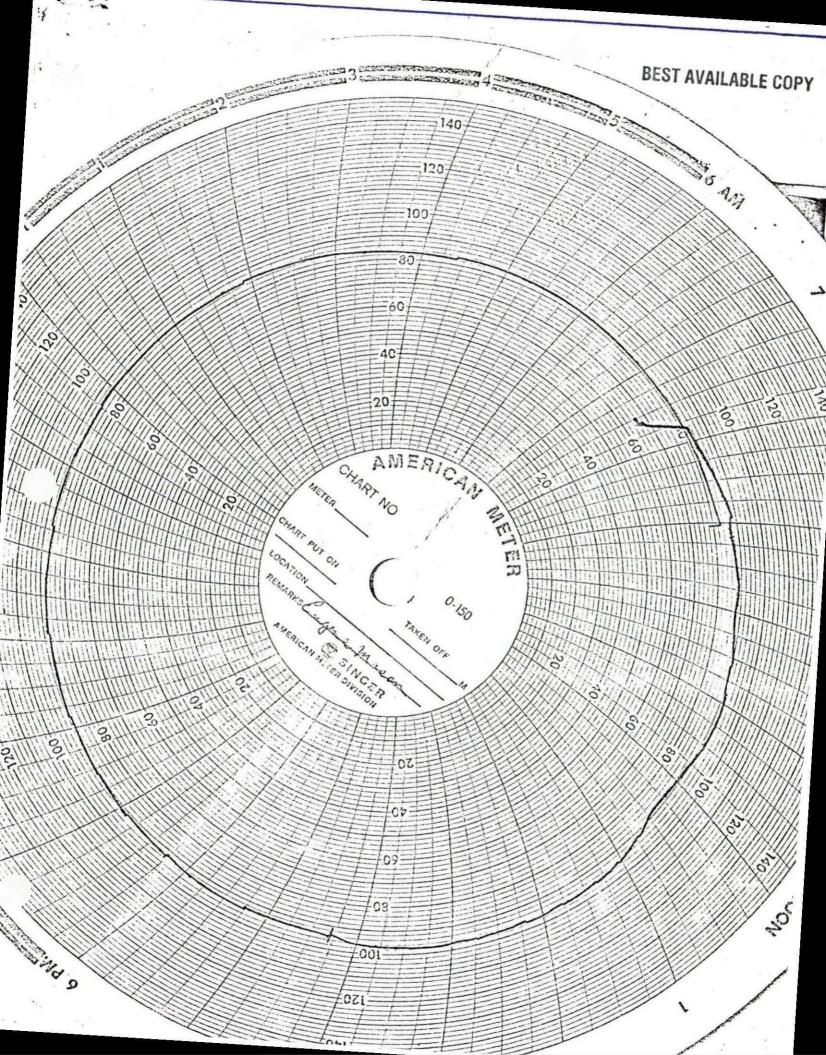
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DEADWEIGHT F	ADINGS (F 3)
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e Test On	9/22/78		DEADWEIGHT	Date Test Off	9/23/78	ST AVAILA	BLE COPY
TIME A.M. P.M.	PRESSURE PSIG	TEMP *F AMB. PIPE	REMARKS	TIME A.M. P.M.	PRESSURE PSIG	TEMP. F	REMARKS
1722 HR	2500	82 94	* 2600 PSIG	0600 HR	2560	72 82	4 - \$
1800 HR	2543	83 93		0630 HR	2537	72 82	
1823 HR	2490	82 92	* 2600 PSIG	0700 HR	2520	72 81	
1900 HR	2490	80 91	* 2600 PSIG	0730 HR	2510	- 72 81	
1930 HR	2495	79 90	* 2600 PSIG	0800 HR	2515	72 81	
2000 HR	2541	79 89		0830 HR	2521	72 82	9.7
2015 HR	2,490	78 89	* 2600 PSIG	0900 HR	2550	73 83	
2030 HR	2574	77 88		0905 HR	2550	73 83	End Test
2100 HR	2510	77 88			£		1.
2110 HR	2490	77 88	* 2600 PSIG	9			
2130 HR	2580	76 88		4,			
2200 HR	2530	76 87			-		**
2225 HR	2490	76 86	* 2600 PSIG			1	
2300 HR	2580	75 86				1	
2330 HR	2535	75 86		12.			
2352	2490	75 86	* 2600 PSIG				
2400 HR	2590	75 86	Midnight	2.			
0030 HR	2555	75 86				1	
0100 HR	2525	75 86	н п				, it is
0130 HR	2502	75 86	i i				
0200 HR	2480	75 85	* 2600 PSIG		2		
0230 HR	2578	75 85					
0300 HR	2552	75 84					
0330 HR	2530	75 84					
0400 HR	2505	73 83					
0430 HR	2480	73 83	* 2600 PSIG				
0500 HR	2592	73 83	1				
0530 HR	2576	72 82					
A STATE OF THE PARTY OF THE PAR							





PRESSURE TEST REPORT

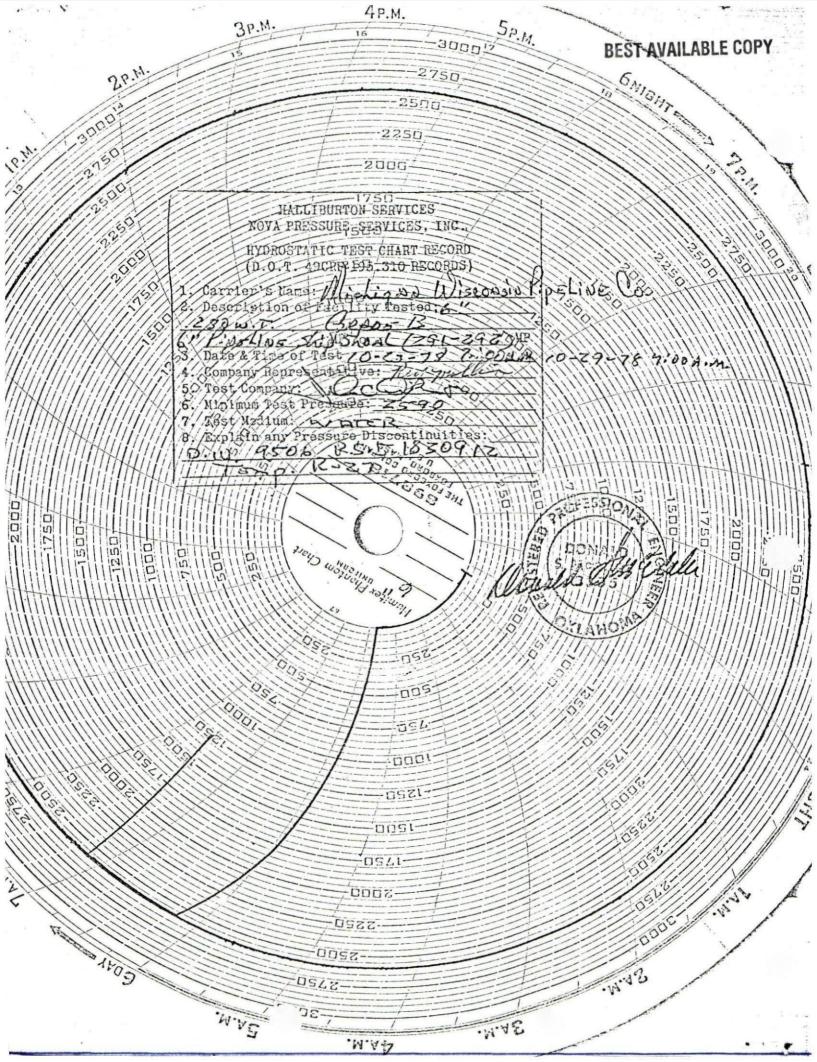
Michigan Wisconsin Pipa Line Company Michigan Consolidated Gas Company Great Lakes Gas Transmission Company			Report No. 78	and the second of the
Project Name: 6" Pipeline Ship Shoal 291 to 2	292 De	sign Pressure:	1300	PSIG
State: Offshore, Louisiana	_ County: _ Outer	Continental	Shelf	
Job No.: H-2159-B	_ Work Order No.:	4497		
Construction Contractor: Brown and Root Incorpora	ated		- 100 d	
Testing Contractor: Halliburton Services				
Test Medium: ☑ Water ☐ Gas	□Air □Ot	her		
COMPLETE FO	OR PIPELINE TEST OF	VLY		1000
Limits: M.P. 0.00 Station 0	+ to M.P.	3.33	Station 175	+ 70
Pipe Specifications: 6 5/8" "O.D. X 0.280	"W.T. Grade B	Manu	f	i e inve
Gauge Point Pressure: Maximum 2600	PSIG,	Minimum	2595	PSIG
Gauge Point Elevation: 0.00	_ Ft. Stati	on 176	+	12
Low Point Pressure: 2600	_ PSIG Elevation	n:+0.00 M	g	Ft.
High Point Pressure: 2580	PSIG Elevation	n: _ +47 MLG		Ft.
Drawing No. PH-612-32-1				L
COMPLETE FO	R ASSEMBLY TEST O	ONLY		
Test Pressure: Maximum	PSIG, Minimum:			PSIG
Description of Assembly-Including Related Drawing Number	rs:	Š	× .	
		BEST	AVAILABLE	COPY
	7			
	TING EQUIPMENT		0.020	
ressure Pump: Make:// Kerr Serial		Capacity:		Gals/Stroke
Deadweight Gauge: Make: Chandler	Serial N			
Pressure Recorder: Make: Foxboro	Serial N	vo	0912	
Temperature Recorder: Make: "Hildebrandt Engin	eering Co. Serial N	No.:H-2	7	

DEADWEIGHT READINGS (PSIG)

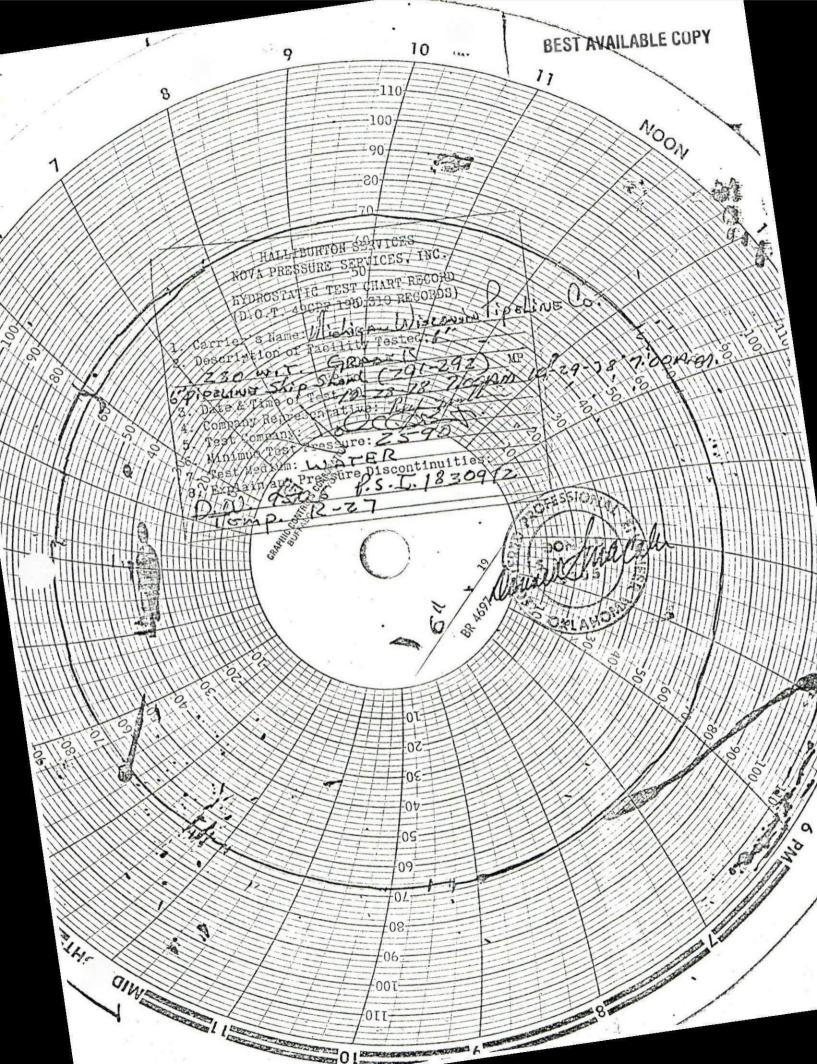
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		TCAID DO		TIME	POECCUPE	TEMP. F	
ME .vl. P.M.	PRESSURE PSIG	TEMP F. AMB. PIPE	REMARKS	A.M. P.M.	PRESSURE PSIG	AMB. PIPE	REMARKS
0700 HR	2595	76 69	Start Test	2200 HR	2599	77 68	2594.2
0800 HR	2594	76 68		2300 HR	2596.5	77 67	7.7
0900 HR	2593	76 68		2400	2597.5	77 67	
1000 HR	2592.5	76 68		0100	2598	77 68	
1100 HR	2592	76 68		0200	2599	76 67	
1200 HR	2592	76 69		0300	2599	76 66	
1300 HR	2592	76 69		0400	2599	76 66	
1400 HR	2590.2	76 69	* 2597	0500	2598.8	76 68	
1401 HR	2597	76 69		0600	2598.8	76 67	
1502 HR	2597	77 70		0700	2598.8	76 67	End Test
1530 HR	2596.5	77 70	100 m			. 1	
00 HR	2596.5	77 70					
1700 HR	2596.5	80 70	4, 2				
1800	2596.5	80 71					
1900	2597.5	78 69					grade at the season of
2000	2600	78 68	2595.5	1 24	3.9 3.5 6 6 3		
2100	2596.5	77 68		1 1 1 1 1	20 (A) (A)		T of
	Repressure	Bleed		For A	Additional Read	lings Use New F	orm
Comments:	05				** . *	, i	
	-			, t 's		BEST AVAILA	BLE COPY
		-				, 1	
Weather Condi	tions:					- Julia	Sull.
						01. E.	ONING
Test Witness (C	Company Repre	sentative):R	oy Mullins		, in the second	Date!	10/29/78
	presentative:					ASCA	0/29/787

Approved by:





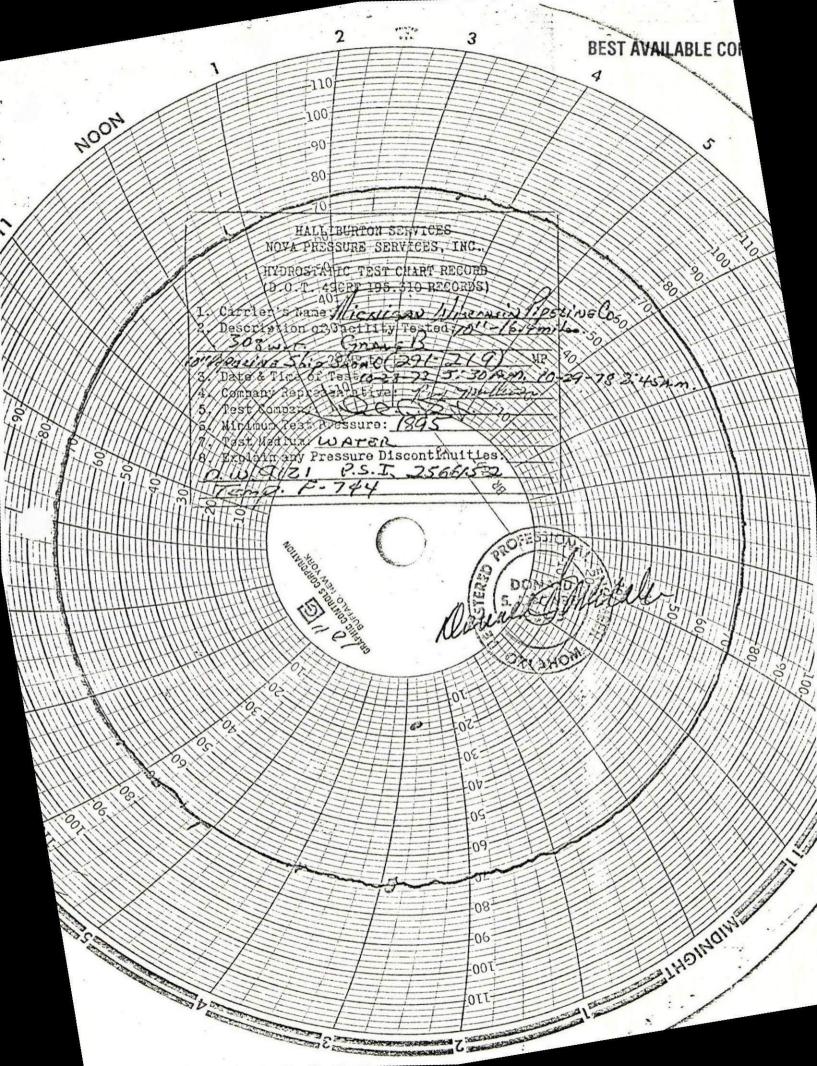


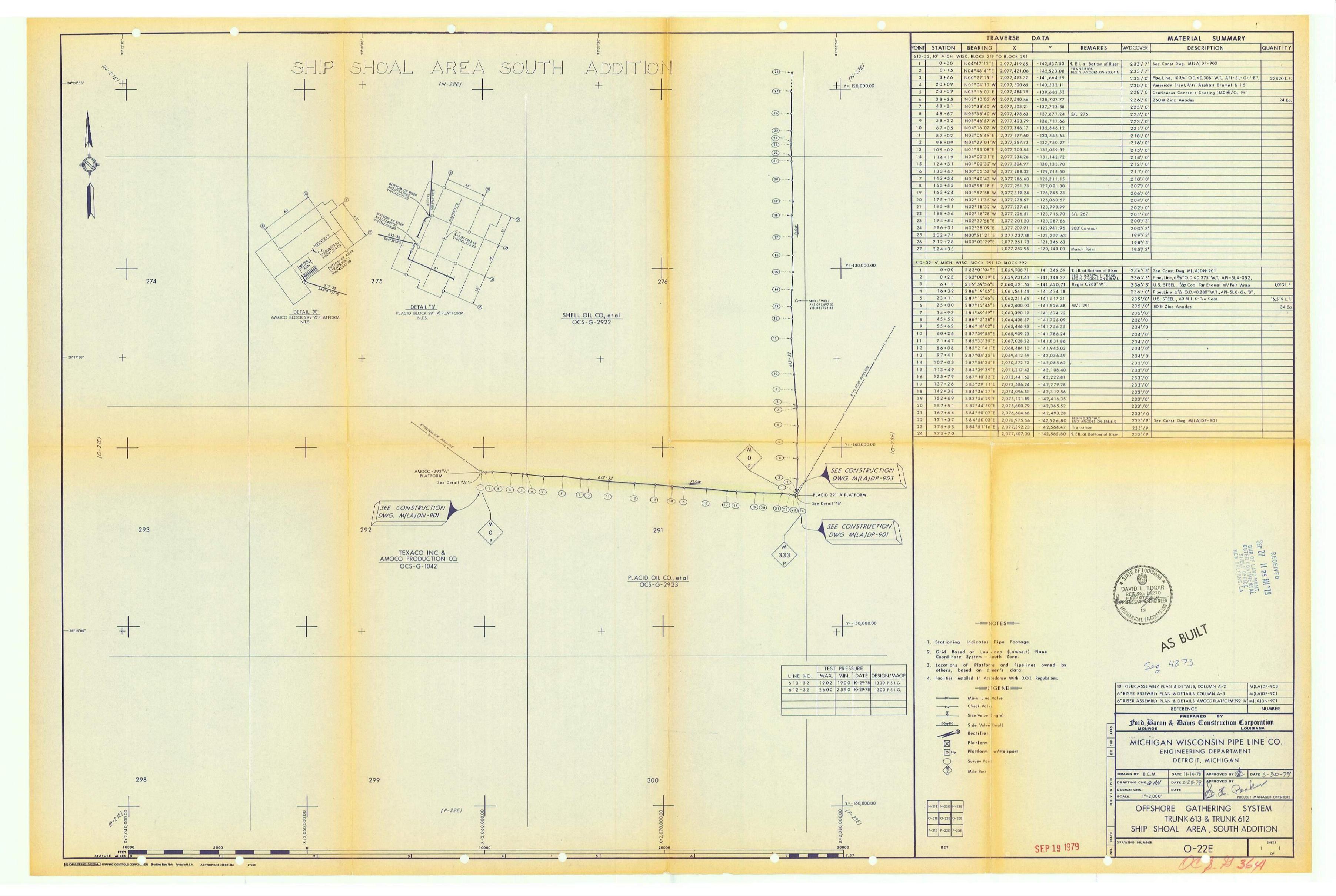
PRESSURE TEST REPORT

Michigan Wisconsin Pipa Line Company 005-G-3654	Report No28	.22-4
☐ Michigan Consolidated Gas Company ☐ Great Lakes Gas Transmission Company	Sheet	Of
Project Name: 10" Pipeline Ship Shoal 291 to 219 Design Pressure:	1300	PSIG
State: Offshore, Louisiana County: Outer Continent	al Shelf	
Job No.: H-2159-B Work Order No.: 4497	Fee	,
Construction Contractor: Brown and Root, Inc.		
Testing Contractor: Halliburton Services		
Test Medium: ☑ Water ☐ Gas ☐ Air ☐ Other		30.X
COMPLETE FOR PIPELINE TEST ONLY Limits: M.P. 0.00 Station 0 + 00 to M.P. 16.34		000E + <u>8</u> 5
Pipe Specifications: 10 3/4" "O.D. X 0.308 "W.T. Grade B M	anuf.	A CONTRACTOR
Gauge Point Pressure: Maximum 1900 PSIG, Minimum _	1895	PSIG
Gauge Point Elevation: + 10 Ft. Station 0	+.	00
Low Point Pressure: 1905 PSIG Elevation: 0.00 M	IG	Ft.
High Point Pressure: 1886 PSIG Elevation: +44 MLG	;	Ft.
Drawing No.	c incre	157:
COMPLETE FOR ASSEMBLY TEST ONLY	· · · ·	1.32
Test Pressure: Maximum PSIG, Minimum:		PSIC
Description of Assembly-Including Related Drawing Numbers:	N	graf.
	31 sa	10. 19
		\$00 a
	•	
B	EST AVAILAB	LE COPY
ressure Pump: Make: Wheatley Quintuplex Serial No.: PI 8656 Capacit	0.238	Gals/Stroke
Deadweight Gauge:/ Make: Chandler Serial No.: 9121		
Fressure Recorder Civizxe: Serial No.:	566152	
Temperature Recorder: Make: Hildebrandt Engineering Co. Serial No.:	-744	

West * 10	and the	577	DEADWEIGHT !	READINGS (PS	SIG)	, was and	
Jate Test On	10/28/79			Date Test Off	10/25/79		
TME . P.M.	PRESSURE PSIG	TEMP F AMB. PIPE	REMARKS	TIME A.M. P.M.	PRESSURE PSIG	TEMP. F AMB. PIPE	REMARKS (
0530	1900 .	76 70		1900	1898.7	78 72	
0600	1899	76 70		2000	1898.7	77 72	
0 700	1897	71 76	1 1 1 1 1 1 1 1 1	2100	1898	77 71	
0800	1896	76 71		2200	1897.5	77 71	
0900	1895	76 71	* 1900	2300	1897.5	77 71	
0905	1900	76 71		2400	1897.4	77 71	
1000	1900	76 71	and the second second	0100	1896.5	77 71	
1100	1899	76 72		0200	1896.5	76 70	
1200	1898	76 72		0300	1896.3	76 70	
1300	1897	76 1 72	7 A 1	0400	1896	76 70	
1400	1896.1	76 73	* 1902	0430	1896	76 70	
5	1902	77 73		0530	1895	76 69	* 1900 End Test
1500	1902	77 73		0600	1900	76 70	(
1530	1901.5	77 73		0700	1900	76 71	
1600	1900.7	77 73	,	0800	1900	76 71	
1700	1900	80 73	1 1 1 1 1 1 X	0830	1900	76 71	
1800	1899	80 72	d:	0845	1900	76 71	
Indicators: ** Comments:	Repressure	Bleed		For A	Additional Read	dings Use New	Form
						BEST AVAIL	ABLE COPY
4.22			9.				-4
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	it.	John C. Dul				W: 00	10/29/78
Reviewed by:		vis Da	et David	h Asilil	Q Ser fin Ser	Date!	4/23/79







Ford, Bacon & Pavis

Construction Corporation

NEW YORK

ACTING AS AGENT FOR MICHIGAN WISCONSIN PIPE LINE COMPANY

MONROE

3901 JACKSON STREET P. O. BOX 1762 MONROE, LOUISIANA 71201

October 25, 1978

Mr. Jesse Hunt Bureau of Land Management New Orleans Outer Continental Shelf Office New Orleans, Louisiana 70130

> Re: Michigan Wisconsin Pipeline Company 10" Pipeline; Ship Shoal 219 to 291 OCS-G-3654

> > 6" Pipeline; Ship Shoal 291 to 292 OCS-C-3641

16" Pipeline; High Island 309 to 332 OCS-G-3625

Dear Sir:

Please be advised that in accordance with the referenced OCS permits, hydrostatic testing of the 16" Pipeline, High Island 309 to 332, will commence Wednesday, October 25, 1978.

Our letter of October 21, 1978 advised you that the hydrostatic testing of the 10" and 6" pipelines would begin October 23, 1978. Due to delayed construction progress, this commemcement date will be Wednesday, October 25, 1978.

Please contact our office in Monroe, La., in you have any questions.

Sincerely,

John M. Kelley

Field Engineer

cc: Mr. W.K. Peaker

Mr. A. D. Perot

ap3 10-24-78

Ford, Bacon & Pavis

Construction Corporation

TELEPHONE 318/388-1530

ENGINEERS – CONSTRUCTORS

TWX: 510-977-5395

3901 JACKSON STREET P. O. BOX 1762 MONROE, LOUISIANA 71201

> 21 October 1978 Lafayette, Louisiana

Mr. Jesse Hunt Bureau of Land Management New Orleans Outer Continental Shelf Office 500 Camp Street Suite 841 New Orleans, Louisiana 70130

> Ref: 10" Pipeline; Ship Shoal 219 to 291 OCS-G 3654 6" Pipeline; Ship Shoal 291 to 292 OCS-G 3641

Dear Sir:

Please be advised that hydrostatic testing of the subject pipelines, in accordance with the referenced OCS permits, will commence on Monday, October 23, 1978. Please call our Monroe, La. office if you have any questions.

Sincerely,

John M. Kelley Field Engineer

Lafayette, Louisiana

3341 (400)

OCS-G 3641

Ship Shoal Area. South Addition

CERTIFIED MAIL NO. 085284

February 23, 1978

DECISION

Michigan Wisconsin Pipe Line Company

Right-of-way

Application Approved

The above application was filed for approval on October 27, 1977, pursuant to Sec. 5(c) of the Outer Continental Shelf Lands Act of August 7, 1953 (67 Stat. 462) and the regulations promulgated thereunder (43 CFR 2883).

This application is for a right-of-way 200 feet in width for the construction, maintenance, and operation of a 6 5/8-inch natural gas pipeline, 3.34 miles in length from the Amoco-Texaco Platform in Block 292 to Placid Oil Company's Platform "A" in Block 291, all in Ship Shoal Area, South Addition, as shown on Drawing No. 612-32-1, Sheet 1 of 1 dated October 20, 1977, submitted with the application.

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

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

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

The annual rental for the pipeline is \$20.00. Operator submitted two drafts totaling \$30.00 to cover the rental for 1978 and the required application fee of \$10.00.

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

This application is approved under the express condition that all valves and taps will be buried to a minimum of one (1) foot below the mudline. The pipeline is not required to be buried; however, should the pipeline prove to be an obstruction to commercial fishing activities, its subsequent burial to a depth specified by the Manager may later be required.



NOTED: SPOKES

Spoker 11-17-71 Mchock 11/17 Mchock 11/17

NOV 18 1977

Memorandum

To:

Manager, Outer Continental Shelf Office, Bureau of Land

Management, 841 Hale Boggs Federal Building, 500 Camp

Street, New Orleans, Louisiana 70130

From:

Conservation Manager, Gulf of Mexico OCS Operations

Subject: Michigan Wisconsin Pipe Line Company's Pipeline Right-

of-Way Application, BLM OCS-G 3641, Reference 3341(400)

We have reviewed the safety features and design specifications for the subject Right-of-Way Application, dated October 12, 1977, in accordance with the MOU dated August 1, 1974. It is for the construction, maintenance, and operation of a 6 5/8-inch gas pipeline 17,612 feet in length from the Amoco-Texaco Platform, Ship Shoal Block 292, lease OCS-G 1042, to Placid Oil Company's Platform "A", Ship Shoal Block 291, lease OCS-G 2923.

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

Pipeline Component	Maximum Allowable Operating Pressure/WP Ratings
Submerged component	2,130 psfg
Riser component	1,981 psig
Piping, fittings, valves	1,440 psig

Hydrostatic pressure test with water will be conducted from 2,470 psig to 2,600 psig for 24 hours.

Based on these calculations, we recommend that the maximum allowable operating pressure for this pipeline be 1,440 psig and that this pressure may be exceeded only when hydrostatically pressure-testing the pipeline.

NOTER-PAUSINA

2

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

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

Or ginul Signed-Lowell G. Hommon>

A magConservation Manager

cc: CM Reading File
Drafting (w/cy of location plat)
1502-01 - Michigan Wisconsin Pipe Line Co. (W/orig. application)
(Pipeline Section)
PC File

FMPausina: JJSpokes: cal:11-17-77

Ford, Bacon & Pavis

Construction Corporation

TELEPHONE 318/388-1530

ENGINEERS – CONSTRUCTORS

TWX: 510-977-5395

3901 JACKSON STREET P. O. BOX 1762 MONROE, LOUISIANA 71201

November 4, 1977

H-2159-B

File: MW-25.6

Mrs. LaNelle Boehm
OCS Land Office
Bureau of Land Management
U. S. Department of the Interior
Suite 841
Hale Boggs Federal Building
500 Camp Street
New Orleans, LA. 70130

Dear Mrs. Boehm:

0CS-G-3641 0CS-G-3642

In response to your recent request, the following items involving the above application filings are attached for your review and reference:

OCS-G-3641

1) Four (4) prints of revised Drawing RC-612-32-1 as noted.

 Copy of Amoco Production Company's return receipt with date of delivery, October 17, 1977, shown.

3) Copy of letter dated November 3, 1977 requesting a letter of no objection from Texaco, Inc. % Mr. Alton McClung.

OCS-G-3642

1) Four (4) prints of revised Drawing RC-615-32-1 as noted.

Should you require any additional information, please advise.

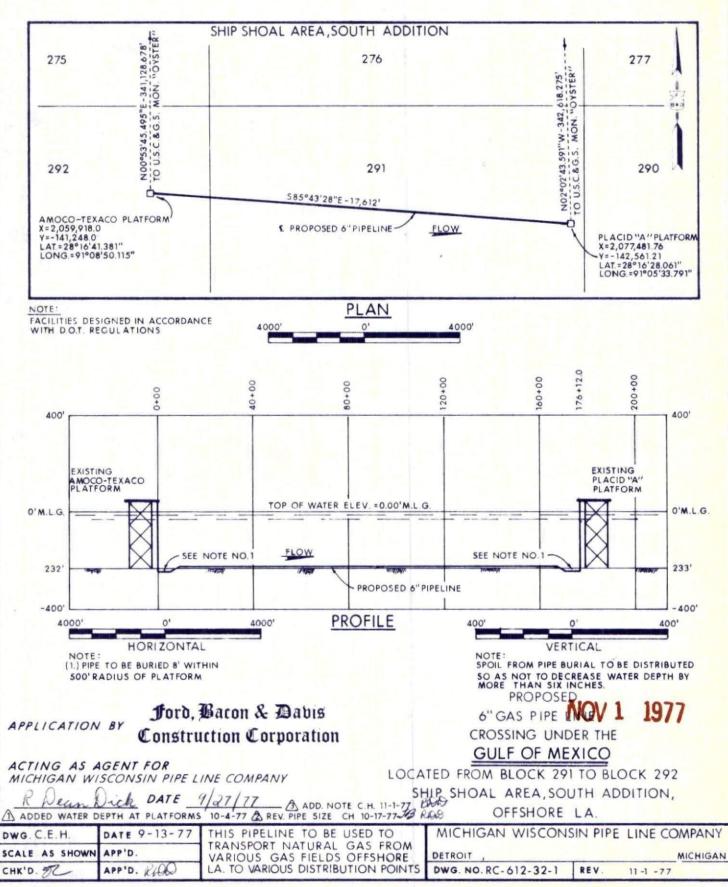
Sincerely,

R. Dean Dich

R. Dean Dick Project Engineer

mgh Enclosures

cc: Messrs. M. J. Williams/with map attachments
D. L. Edgar/with map attachments



005-63641

emorandum

DEPARTMENT OF THE ATTERIOR BUREAU OF LAND MANAGEMENT

IN REPLY REFER TO: 3341 (400)

To

: Conservation Manager

Date: November 8, 1977

FROM

Gulf of Mexico OCS Operations

Manager

New Orleans OCS Office

Michigan Wisconsin Pipe Line Company's Pipeline Right-of-way

Application (OCS-G 3641)

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

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

Attachments

1. Application dated October 12, 1977

2. Exhibit "A", Drawing No. RC-612-32-1, as revised 3. Exhibit "C", Schematic Safety Shut Down System, Drawing No. PL-612-32-1

4. Drawing No. 612-32-1

NOTED-HC INTOSH MOTOR-ING BEE MICHIGAN WISCONSIN PIPE LINE COMPANY

MEMBER OF THE AMERICAN NATURAL GAS SY

ONE WOODWARD AVENUE, DETROIT, MICHIGAN 48226

October 12, 1977

H-2159-B

File: MW-25.1 & 16.1

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

Dear Mr. Rankin:

Michigan Wisconsin Pipe Line Company's Proposed Pipeline Located From Block 291 to Block 292, Ship Shoal Area, South Addition, Gulf of Mexico

Pursuant to the authority granted in Section 5(c) of the Outer Continental Shelf Lands Act of August 7, 1953 (67 Stat. 462) and in compliance with regulations contained in Title 43, Subpart 2883, Section 2883.1, Title 30, Subpart 250, Section 250.19, and requirements contained in OCS Orders No. 8 and 9 issued on October 30, 1970, Michigan Wisconsin Pipe Line Company hereby applies, in duplicate, for a right of way two hundred feet (200 ft.) in width to construct a pipeline as shown on the following Drawing Number, RC-612-32-1, Revision No. 1, (Exhibit "A") attached and made a part hereof:

1. Proposed 6-inch pipeline located from Block 291 to Block 292, Ship Shoal Area, South Addition, Offshore Louisiana.

This pipeline will be used to gather and transport natural gas from Federal Waters offshore Louisiana to customers in various North Central states. The tentative construction date is May or June, 1978.

Michigan Wisconsin Pipe Line Company has previously filed all necessary papers required under Subparagraph 2883.1, Part (c) of the regulations, said filing being found in Qualification File Number 160 in your office.

Attached hereto find our Draft Number 75598 in the amount of \$10.00 covering the application fee and Draft Number 75599 in the amount of \$20.00 (based on \$5.00 per mile or fraction thereof for 3.34 total miles through Zone 4).

Mr. John L. Rankin Page Two October 12, 1977

In accordance with Subparagraph (d) under Paragraph 2882.2-1 applications, Michigan Wisconsin Pipe Line Comapny has this date, by certified mail, forwarded copies of this application with map Number RC-612-32-1 to the leaseholders in the blocks traversed by the proposed pipeline.

The certified receipt of these letters of notification are attached to this application as required under the above regulations (Exhibit "B").

In compliance with your notice of April 1, 1976, the following is the design data for the proposed pipeline:

DESIGN DATA

Product to be transported Pipe size Pipe wall thickness Pipe grade Riser pipe wall thickness Riser pipe grade Type corrosion protection

Specific gravity of line (empty)
Specific gravity @ 60° F
Design working pressure and
capacity
Maximum working pressure and
capacity
Hydrostatic test pressure

Natural gas 6.625" O.D. 0.280" W.T. API-5L, Gr. "B" 0.375" W.T. API-5L, Gr. "B" 86# zinc bracelets spaced @ 500' centers 5/32" bituminous enamel and X-tru coated 1.25 Gas 0.57 - 0.63

5,000 MCF per day @1300 psi

5,000 MCF per day @1300 psi 2600 psi Max., 2470 psi Min. for 24 hrs.

Upon the granting of the right of way herein applied for, Michigan Wisconsin Pipe Line Company agrees to abide by the terms and conditions of the aforementioned regulations including the provisions of the "Nondiscrimination in Employment" form attached to this application.

If this application and enclosures meet with your approval, we will appreciate your issuance of the necessary permit at your earliest convenience.

Very truly yours,

MICHIGAN WISCONSIN PIPE LINE COMPANY

By: Waster

Title: Senior Vice President

daw Attachments Mr. John L. Rank... Page Three October 12, 1977

	sin Pipe Li	Barnes	hereby o	certify t	hat W.	. A. Batt	ten,
	nd execute	<u>dent</u> of said on behalf of			The second second second		The same of the sa
This _	13th	day of _	Octobe	r	, 1977		
	John	r. Ga	nee				
Assist	ant Secreta	ry of Michia	an Wisco	onsin Pip	e Line	Company	
CORPOR	ATE SEAL						

EXHIBIT "A"

Drawing Number RC-612-32-1

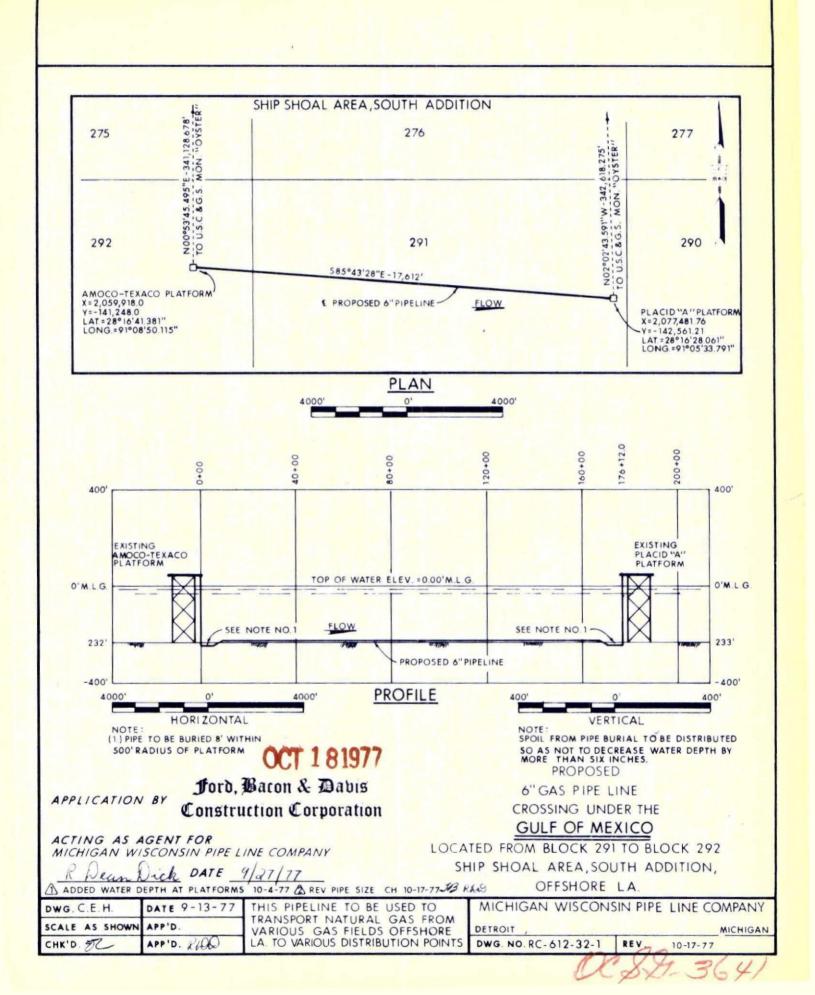
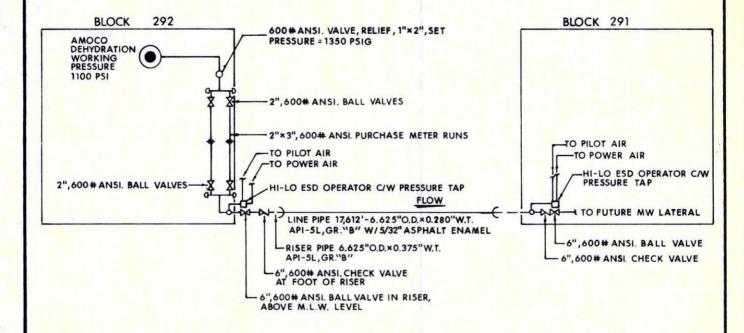


EXHIBIT "C"

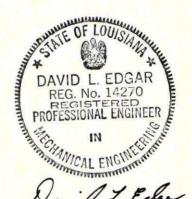
Safety Shutdown Schematic for Platforms



FACILITIES DESIGNED IN ACCORDANCE WITH D.O.T. REGULATIONS



BLOCK 291, BLOCK 292
SHIP SHOAL AREA, SOUTH ADDITION,
OFFSHORE LA.

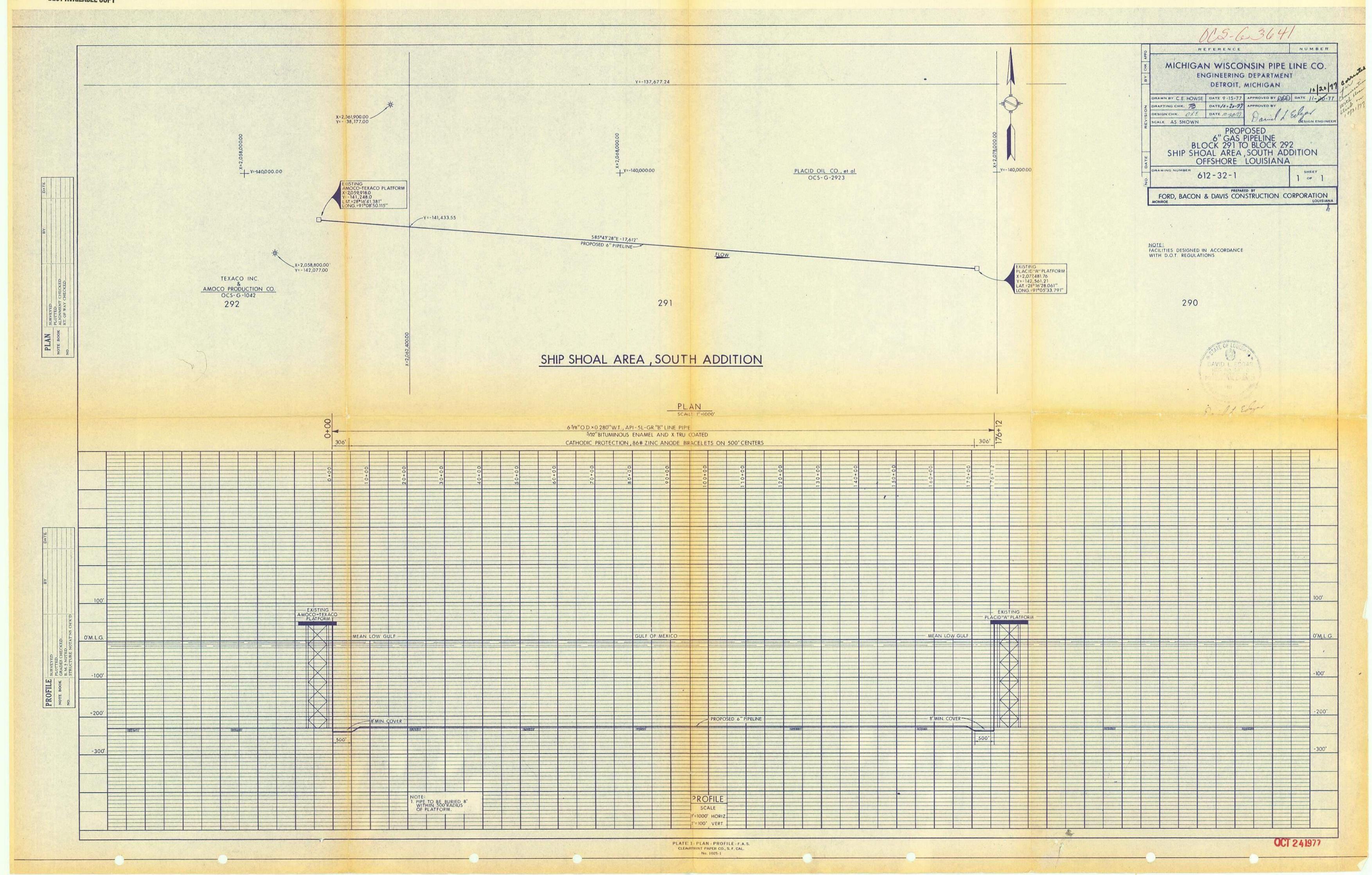


OCT 181977

SCALE NO SCAL	E		
DRAWN C.E.H.	DATE 10-17-77		S
CHECKED B	DATE 10-18-77	SAFETY	SH
APPROV. RADO	DATE 10-18-77		57501.

SCHEMATIC SHUT DOWN SYSTEM MICHIGAN WISCONSIN PIPE LINE CO.
DETROIT, MICHIGAN

DWG. NO. PL-612-32-1



Ford, Bacon & Pavis

Construction Corporation

3901 JACKSON STREET, MONROE, LOUISIANA 71201

OCS-6-3641

September 29, 1977

H-2159-B File: MW-25.1

U. S. Corps of Engineers New Orleans District P. O. Box 60267 New Orleans, La. 70160

Attention: Permit Section

Gentlemen:

Ford, Bacon and Davis Construction Corporation is acting as agent for Michigan Wisconsin Pipe Line Company in the construction of a 8-inch natural gas pipeline from Block 292 to Block 291 in Ship Shoal Area, South Addition, Offshore Louisiana.

The proposed routing is indicated in red on the attached Drawing Number RC-612-22-1. In accordance with your requirements, we have enclosed one completed copy of Form Number 4345 for this work including a reproducible sepia and seven (7) prints.

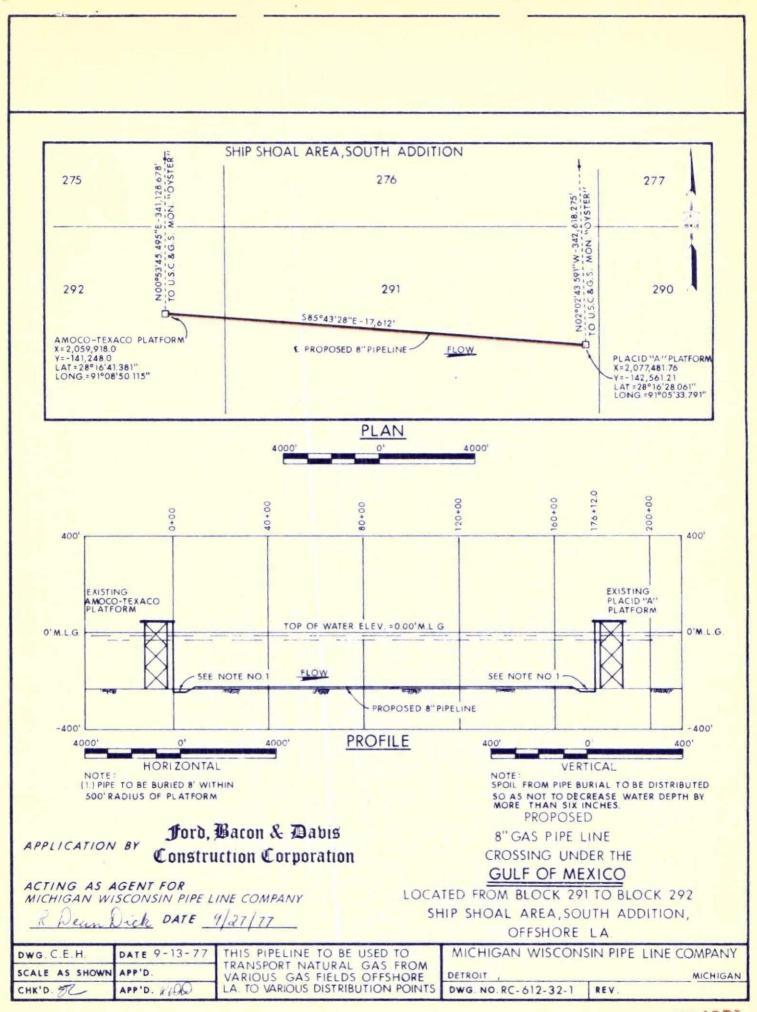
We would appreciate your prompt attention to this matter and thank you for your continued cooperation in the handling of our permits.

Very truly yours,

R. Dean Dick
Project Engineer

mgh Enclosures

cc: Bureau of Land Management/with attachments
Federal Communications Commission/with attachments
Data Com/with attachments
Mr. D. L. Edgar/with attachments



Memorandum

DEPARTMENT OF THE IN._ KIOR BUREAU OF LAND MANAGEMENT

IN REPLY REFER TO: 3341 (400)

To

: Conservation Manager

Date:

November 8, 1977

FROM

Gulf of Mexico OCS Operations

: Manager

New Orleans OCS Office

SUBJECT: Michigan Wisconsin Pipe Line Company's Pipeline Right-of-way

Application (OCS-G 3641)

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

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

Attachments

1. Application dated October 12, 1977

Exhibit "A", Drawing No. RC-612-32-1, as revised
 Exhibit "C", Schematic Safety Shut Down System,

Drawing No. PL-612-32-1

4. Drawing No. 612-32-1

PIPELINE APPLICATION CHECK LIST

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

A.	Ver	ify t	the f	following general information:	
Vo	I.			leases involved on the P/L application appear on the current ion of Production (SOP) Lease List?	
,	II.	USGS	S App	olication	
		a.		applicant is a Federal lease holder and the pipeline is to be such purposes as:	used
				Moving production to a control point for gathering, treating, storing, or measuring.	
			_2.	Delivery of production to a point of sale.	
				Delivery of production to a pipeline operated by a transporta company.	tion
				Moving fluids in connection with lease operations, such as fo injection purposes.	r
		_b.		pipeline is within the lease boundary owned by the operator yes, include 30 CFR 250.19(b) in approval).	
		_c.		eline is within contiguous lease boundaries (If yes, include CFR 250.19(b) in approval).	
		_d.		eline is within non-contiguous lease boundaries (If yes, inclu CFR 250.18(c) and 30 CFR 250.19(b) in approval).	de
		_е.	Less	see's "intent to cross" letters are received.	
	-	_f.		suant to Secretarial Order 2974 of April 30, 1975, check the lowing:	
		-	_1.	FWS notified	•
			_2.	FWS comment received	
			_3.	BLM notified	
			4.	BLM comment received .	

Environmental assessment required

III. BLM Application

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

IV. DOT Pipelines

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

V. DOI Pipelines

U/A a. Pipelines not covered by IV above.

	ify that the information shown on the <u>safety equipment schematic drawing</u> tains the following:
<u></u>	The pipeline leaving the platform receiving production from the platform is equipped with high and low pressure sensors located upstream of departing check valves to directly or indirectly shut-in the well or wells on the platform.
<u>N/A</u> 11.	The pipeline delivering production to production facilities on the platform is equipped with an automatic fail close valve tied into the automatic and remote shut-in system.
<u> </u>	The pipeline crossing the platform which does not deliver production to the platform, but which may or may not receive production from the platform, is equipped with high and low pressure sensors connected to an automatic fail close valve located in the upstream portion of the pipeline at the platform. In addition, the sensors are tied into either the platform's automatic and remote shut-in system or an independent remote shut-in system.
Iv.	The pipeline boarding the platform is equipped with a check valve.
v.	The pipeline leaving the platform is equipped with a check valve.
MAVI.	The pipeline pump is shown as well as its associated high and low pressure shut-in device.
<u>//Av</u> 11.	If pipeline pilots are located on any process vessel, all flow restrictions (backpressure valves, chokes) downstream of pilots are indicated on the schematic.
√vIII.	Pressure source is drawn into the schematic with the following:
	a. Source Dehydentor
_/	b. Maximum source pressure, psig // 0.0
IX.	The rated working pressures of all separators, pumps, compressors, valves, flanges, and fittings upstream of and including the boarding automatic fail close valve are shown.

С.	Veri	fy	that the <u>location plat</u> depicts the following:	BEST AVAILABLE COPT
		. Lo	ocation of P/L	
	<u>/</u> 11.	L	ength of P/L	
_	111.	S	Size of P/L	*
	_ ıy.	T	ype of service	
	_ v.	. D	Direction of flow	
D.			that the information given on the submitted data shoute the $MAOP_{SC}$, $MAOP_{rc}$, $MAOP_{p/1}$.	eet is complete; and
	I.	Gen	neral information for calculating $MAOP_{sc}$, $MAOP_{rc}$, etc	с.
		a.	Size of P/L, inches 6.625.	*
		b.	Weight of P/L, 1bs./ft/8,97	
		c.	Grade of P/L 3	
		d.	Wall thickness, inches 0.280.	
		e.	Size of riser, inches 6.625 -> from sche	ematic
		f.	Weight of riser, lbs./ft. 25,03.	
		g.	Grade of riser	×
		h.	Wall thickness of riser, inches 375	
		i.	Minimum WP rating of piping, fittings, valves, psi	g 1440.
		j.	Hydrostatic test pressure (HTP), psig 2600m4x	2470 min
		k.	Hold time, hrs. 24.	
		1.	Classification of P/L (oil or gas) 9 45.	

II. DOI Pipelines

- a. IP @ SMYS for submerged pipeline = $\frac{2st}{D}$
- b. (.72 x\IP @ SMYS) for submerged pipeline = _____ (MAOP_{sc})
- c. IP @ SMYS for riser = $\frac{2st}{D}$ =
- d. (.60 x IP @ SMYS) for riser = $(MAOP_{rc})$
- e. See Ii above $(MAOP_{pfv}) =$ $(MAOP_{pfv})$
- f. Are b, d, and e MSP

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

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

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

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

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

- h. HTP/1.25 = ____
- i. Is HTP hold time = 2 hours
- _____j. MAOP_{p/1} = the smallest of b, d, e, and h above

(MAOP_{p/1})

III.	DOT	Pipelines

- a. IP @ SMYS for submerged pipeline = $\frac{2st}{D} = \frac{2(3500)(-280)}{6.625} = 2958$
- b. (.72 x IP @ SMYS) for submerged pipeline = 2/30 (MAOP_{sc})
- c. IP @ SMYS for riser = $\frac{2st}{D} = \frac{2(35000)(375)}{6.625} = 3962$
- d. For oil P/L (.60 x IP @ SMYS) for riser = $\frac{\text{(MAOP}_{rc})}{\text{(MAOP}_{rc})}$ For gas P/L (.50 x IP @ SMYS) for riser = $\frac{\text{(MAOP}_{rc})}{\text{(MAOP}_{rc})}$
- e. See Ii above /440 (MAOP_{pfv})
- f. Are b, d, and e = MSP

1440 = 1100

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

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

g. Limit of Testing

N/A 1. For oil P/L:

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

/ _____ ^s _____ ^s _____

2. For gas P/L riser component:

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

1650 = 2470 min = 3764

_3. For gas P/L submerged component:

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

1375 = 2470 min = 2810

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

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

BES	T	A۷	AIL	AB	LE	CO	PY

h.	MAOP _{p/1}	based on HTP	BEST AVAILABLE COPT
	1. For	oi1 P/L HTP/1.25 = /	/A
	2. For	gas P/L riser component HTP of	11.5 = 1733 may 1646 min riser
	3. For	gas P/L submerged component	HTP/1.25 = 2080 may 1976 min of submerged component
i.	For oil	P/L Is HTP hold time = 24 h	ours
~	For gas	P/L Is HTP hold time 8 ho	purs
j.	MAOP _{p/1}	= the smallest of b, d, e, and	h above
		1440	(MAOP _{p/1})

		that the information given on the submitted data sheet is complete; culate the life expectancy of the pipelines corrosion protection ($LE_{p/1}$)
	I. Gen	eral Information for Calculating LEp/1
	a.	Type of corrosion protection (platform anodes, R/L anodes, or rectifiers)
	14/B.	If platform anodes are used:
		1. Type of anode
		2. Weight of unit anode, 1bs.
	c.	If pipeline anodes are used:
		1. Type of anode
		2. Spacing interval, ft. 500
		3. Weight of unit anode, 1bs. 86
	II. Cal	culated Life Expectancy of Corrosion Protection
1	U/Aa.	If platform anodes are used, are they considered adequate
	<u></u>	If pipeline anodes are used:
		$LE_{p/1} = 3.82 \times 10^4 \times W^{\circ}/DIR? = 38.14$
	4.	W^{O} = weight of one anode, pounds = 86
		D = outside diameter of pipe, inches = 6.625
		I = interval = length of pipe, feet : total number of anodes
		R = consumption rate, 1bs./amp-yr. 26
,	c.	Is our calculated $LE_{p/1} \stackrel{>}{=} 20$ years

		that the information given on the submitted data sheet is complete; and te the specific gravity of the pipeline $(SP_p/1)$
I.	Gen	eral Information pertaining to SGp/1
	a.	Description of pipelines protective coating AND X-TRU CONTED
	b.	Description of risers protective coating S mme
	c.	Description of pre-concrete coating N/A
	d.	Density of concrete, lbs./cu. ft.
	e.	Thickness of concrete, inches
	f.	Thickness of asphalt/somastic
	g.	Gravity or density of products
6		For gas $.57 \rightarrow .63$ (air = 1.0)
		For oil/condensate O API, (water = 1.0)
	h	Given SC 1.25

SG_{p/1} II.

Expoxy-coated pipelines:

$$SG_{p/1} = 2.865 \text{ W/D}^2 = (2.865) (8.97) = 1.24$$

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

D = diameter of pipe, inches

For weighted pipelines:

$$SG_{p/1} = \frac{d_c}{d} + \frac{k_2}{(T-k_1)^2} \qquad \left(\frac{W+P}{k_3} - \frac{d_c}{d}\right)$$

dc = density of concrete, lbs./ft.3

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

 k_1 , k_2 , k_3 = coefficients from tables

T = thickness of concrete coating, inches

W = weight of bare pipe, 1bs./ft.

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

Is our calculated SG ≅ operator's given SG

1,24 1,25

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

- Verify the following general information:
 - Water Depth, ft. 263 (Max) (Min)

 Burial depth, ft. Otherwise No burial

 - Maximum Operating Pressure (MOP) III.
 - IV. Capacity 5 MMCFD