

ZILKHA ENERGY COMPANY

OCS-G-12340
SN 9169
File

February 26, 1993

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



**Attention: Mr. Mike Connor
Pipeline Unit**

**RE: Notification of Pipeline Abandonment Operations
Segment No. 9169, 2-Inch Supply Gas Right-of-Way Pipeline
Installed In and/or Through Blocks 107 and 106, South
Timbalier Area, OCS Federal Waters, Gulf of Mexico,
Offshore, LA**

Gentlemen:

By letter dated October 9, 1992, Minerals Management Service approved Zilkha Energy Company's (Zilkha's) application for abandonment of the 2-Inch supply gas right-of-way pipeline originating at Platform "A" in South Timbalier Block 107 and terminating at Caisson No. 1 in South Timbalier Block 106, Offshore, Louisiana.

Please be advised that Zilkha Energy Company successfully completed the abandonment operations effective January 8, 1993.

Should you have any questions regarding this matter, please contact Zilkha's regulatory agent, Connie J. Goers, J. Connor Consulting, Inc. at (713) 558-0607.

Sincerely,

ZILKHA ENERGY COMPANY

Steve Brunner /cjg

**Steve Brunner
Operations Manager**

SB:CJG

SN 9169

In Reply Refer To: MS 5421
OCS-G 12340

December 1, 1992

ACTION

Zilkha Energy Company

Right-of-way

RELINQUISHMENT OF RIGHT-OF-WAY GRANT
ABANDONMENT OF PIPELINE

On August 2, 1990, Zilkha Energy Company filed an application for a right-of-way two hundred feet (200') in width for the installation, operation, and maintenance of a 2 3/8-inch gas supply pipeline, 1.01 miles in length, from Century Offshore Management Corporation's Platform A in Block 107 to Zilkha Energy Company's Caisson No. 1 in Block 106, all in the South Timbalier Area. By letter dated August 31, 1990, the application was approved and the right-of-way granted. Proof of construction was subsequently accepted on 0.96 miles of line pipe on November 20, 1990.

On October 9, 1992, Zilkha Energy Company requested relinquishment of the above-described right-of-way in its entirety. Additionally, grantee requested permission to abandon in place the subject pipeline in accordance with 30 CFR 250, Subpart J.

Inasmuch as grantee has agreed to comply with 30 CFR 250, Subpart J, removal of the 0.96 miles of line pipe is hereby waived. However, in the future, should it be determined that this pipeline constitutes a hazard to navigation or commercial fishing operations or unduly interferes with other uses of the OCS, Zilkha Energy Company shall be required to remove it.

Therefore, the pipeline right-of-way grant is relinquished effective as of October 9, 1992, the date the request for relinquishment was filed in this office.

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

(Orig. Sgd.) J. ROGERS PEARCY

J. Rogers Pearcy
Regional Director

cc: Case File

MHHOLMES/

SN 9169 ✓
mug
12/9/92
B

Form 4-1181 (July 1951)

BILLING INDEX

BILLING DATE ☐ Bond Fund symbol (Acq. lands only) Serial No. OCS-G 12340
☐ No bond Expiration date Type P/L R/W

Effective date lease issued, assignment, or report on structure	Units (Acres, miles, etc.)	Total rental rate	County distribution of total rental rate	County distribution (County name)
8/31/90	1.035	\$15.00	\$30.00	Blocks 107,
11/20/90	0.96 Mi.			& 106, South Timbalier

BILLS ISSUED			
Year of lease	Date issued	Year of lease	Date issued
1990	pd.	6th	
2d	12/1/90 pd.	7th	
3d	12/1/91 pd.	8th	
4th		9th	
5th		10th	

~~Relinquished~~ OCT 9 1992

Name	Address
Principal Zilkha Energy Company	1201 Louisiana, Suite 3200
	Houston, Texas 77002-5223

Assignee of undivided interest

Operator

12340 Zilkha Energy Company



United States Department of the Interior

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



In Reply Refer To: MS 5421
OCS-G 12340

December 1, 1992

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J. Rogers Percy
Regional Director

cc: Case File

10/10/92

To: Adjudication Unit (MS 5421)
From: Pipeline Unit, Field Operations (MS 5232)
Subject: Right-of-Way Relinquishment/Abandonment
Company: ZILKHA Energy Company
Right-of-Way Number: OCS-G-12340

RECEIVED

OCT 22 1992

MINERALS MANAGEMENT SERVICE
LEASING & ENVIRONMENT

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

- ☒ Pipeline abandoned in place
☐ Pipeline abandoned by removal
☐ Pipeline never constructed

Mike Connor

Enclosure

Vestal
10/28/92

ZILKHA ENERGY COMPANY

October 5, 1992

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



Attention: Mr. Alex Alvarado

RE: Application to Abandon Pipeline and Relinquish Right-of-Way Grant (OCS-G 12340/Segment No. 9169) 2" Supply Gas Right-of-Way Pipeline Installed In and/or Through Blocks 107 and 106, South Timbalier Area, Offshore, Louisiana

Gentlemen:

Pursuant to regulations contained in Title 30 CFR Part 250.156(a)(1), Zilkha Energy Company hereby requests approval to abandon in-place an existing 2" supply gas right-of-way pipeline (OCS-G 12340/Segment No. 9169) originating at Platform "A" in Block 107 and terminating at Caisson No. 1 in Block 106, all being located in the South Timbalier Area, Offshore, Louisiana.

As a result of reservoir depletion, Zilkha has elected to plug and abandon existing Well No. 1, and has submitted an application to remove Caisson No. 1.

Subject to approval of this application, pipeline abandonment operations are scheduled to commence during October, 1992 with an anticipated project duration of fourteen (14) days.

Zilkha will utilize an onshore support base located in Fourchon, Louisiana.

In support of this request, enclosed please find the following information:

1. Detailed abandonment procedure
2. As-Built Pipeline Route Map

ACCEPTED

J. Roger Henry
Regional Director
Effective Date OCT 9 1992

**Minerals Management Service
Pipeline Abandonment Procedure**

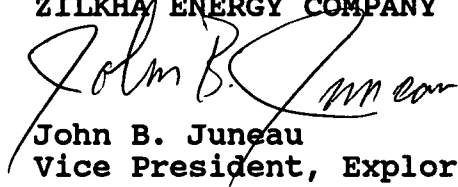
Page Two

Furthermore, Zilkha hereby advises of its intent to relinquish the right-of-way grant for the subject pipeline.

Should you have any questions or requests for additional information, please contact our regulatory agent, Connie J. Goers, J. Connor Consulting at (713) 558-0607 at your earliest convenience.

Sincerely,

ZILKHA ENERGY COMPANY


John B. Juneau
Vice President, Exploration

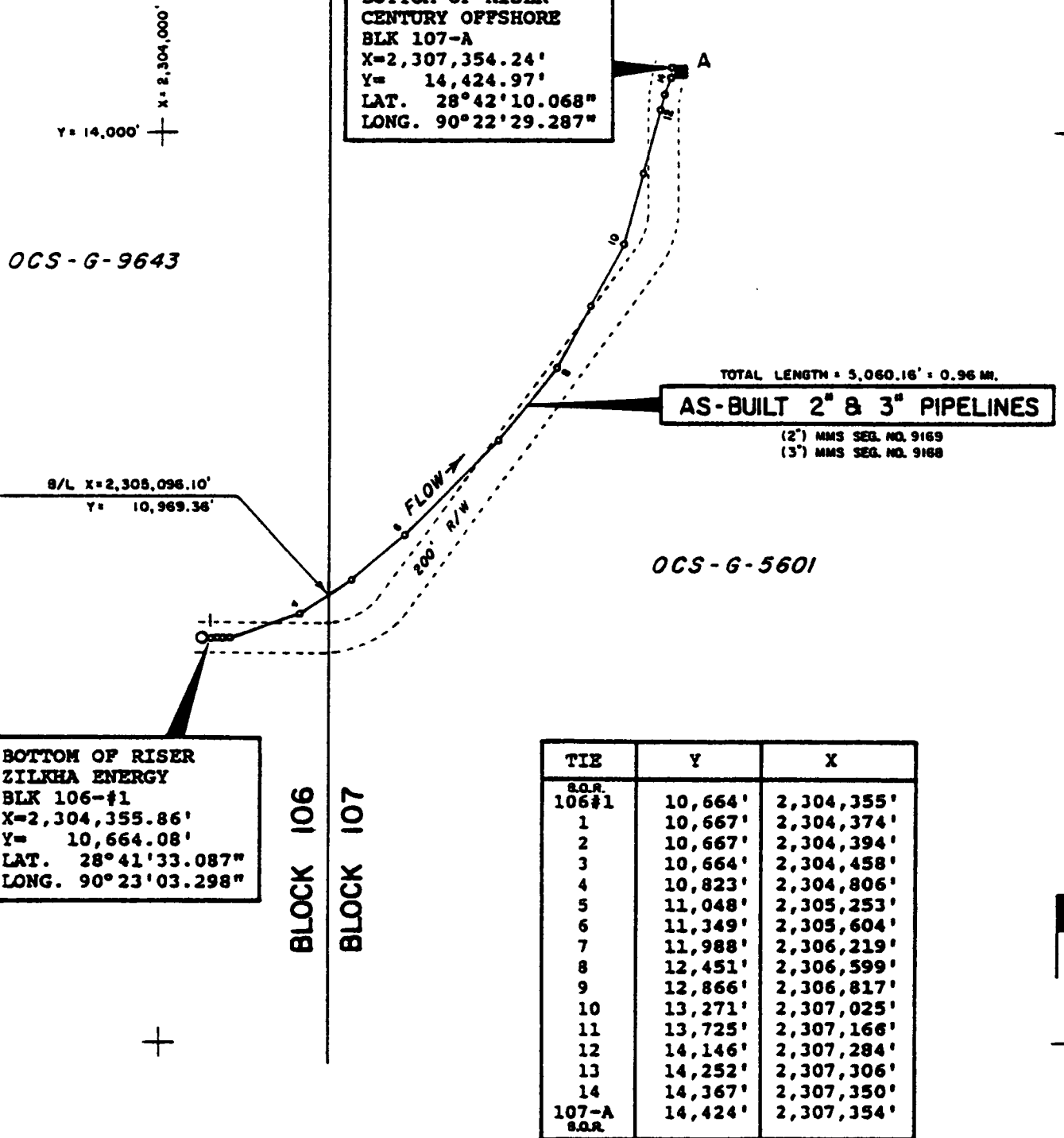
JBj:CJG
Enclosures

**ZILKHA ENERGY COMPANY
SOUTH TIMBALIER BLOCK 106
2" PIPELINE ABANDONMENT PROCEDURE**

1. *Bleed off and disconnect the pipeline at the top of the risers at South Timbalier Block 106, Caisson No. 1 and South Timbalier Block 107, Platform "A".*
2. *Connect the 2" pipeline, through a temporary pig receiver, to a flexible line which routes to a slop tank on a standby boat at South Timbalier Block 107, Platform "A".*
3. *Launch a poly pig into the 2" pipeline at South Timbalier Block 106, Caisson No. 1 and push it with salt water to South Timbalier Block 107, Platform "A". Pump salt water through the line till it is evident there are no hydrocarbons being flushed out.*
4. *Remove the flexible hose and temporary pig receiver.*
5. *Cold cut the 2" pipeline at the base of the riser, and 10' from the base of the riser at both ends of the pipeline and install pipeline plugs.*
6. *Remove the two 10' sections of pipe.*
7. *Sand bag the ends of the abandoned line to maintain 3' of cover.*
8. *Cut the riser at the (+)15' and remove from the clamps.*

NOTE: *All related production equipment at South Timbalier Block 107, Platform "A" will be isolated and blown down prior to starting this abandonment procedure.*

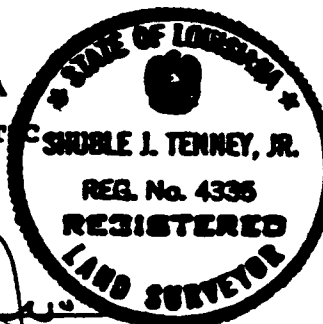
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COORDINATES ARE BASED ON THE LOUISIANA (Lambert) PLANE COORDINATE SYSTEM, SOUTH ZONE (Grid Units in Feet) GEODETIC DATUM: NAD 1927, CLARKE 1866 SPHEROID

CERTIFIED CORRECT AS TO HORIZONTAL POSITION OF AS-BUILT PIPELINES

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



ZILKHA ENERGY COMPANY

AS-BUILT 2" & 3" PIPELINES

SOUTH TIMBALIER AREA
 GULF OF MEXICO

Prepared For Subsea Int.

SCALE: 1" = 1000'

9/26/90

In Reply Refer To: MS 5232

SN 9169

Britton 11-16-90
Alvarado 11-19-90
Stauffer 11/20/90

NOV 20 1990

Zilkha Energy Company
Attention: Mr. J. Bradley Juneau
1201 Louisiana Street, Suite 3200
Houston, Texas 77002-5223

Gentlemen:

In accordance with 30 CFR 250.158(b), your letter dated November 6, 1990, transmitted a pipeline construction report for the following right-of-way pipeline:

<u>Pipeline Right-of-way Number</u>	<u>Size (inches)</u>	<u>Length (feet)</u>	<u>Service</u>	<u>Status</u>	<u>From</u>	<u>To</u>
OCS-G 12340	2	5,060	Supply Gas	Act	Platform A South Timbalier Block 107	Caisson No. 1 South Timbalier Block 106

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

<u>Pipeline Right-of-way Number</u>	<u>Test Pressure (psig)</u>	<u>Duration (hours)</u>	<u>MAOP (psig)</u>	<u>MAOP Determination</u>
OCS-G 12340	1,883	8	1,480	Valves and Flanges

Because grantee has deviated from the approved right-of-way in South Timbalier Block 107, Zilkha Energy Company shall notify Century Offshore Management Corporation, operator of Lease OCS-G 5601, to that effect. A return-receipt card or letter from Century Offshore Management Corporation evidencing proof of notice must be submitted to this office within 60 days of receipt hereof.

The total length of the "as-built" pipeline right-of-way is 0.96 mile.

In future correspondence, please refer to the above pipeline by its assigned right-of-way number.

Sincerely,

(Orig. Sgd.) A. Donald Giroir

D. J. Bourgeois
Regional Supervisor
Field Operations

bcc: 1502-01 12340 w/orig report (MS 5232)
1502-01 12340 w/cy of report (C. Williams) (MS 5033)
MS 5421
MS 5232 Carto (w/cy of location plat)

ABritton:ds:11/15/90:WP

On 12/4/90
K2

PM
11-26-90

ZILKHA ENERGY COMPANY

November 6, 1990



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

Attention: Ms. Carol Williams

RE: OCS-G 12340 Supply Gas Right-of-Way Pipeline Installed In and/or
Through Blocks 107 and 106, South Timbalier Area, Gulf of Mexico,
Federal Waters, Offshore, Louisiana

Gentlemen:

By letter dated August 31, 1990 your office approved Zilkha Energy Company's (Zilkha) application for installation of a 2-3/8" supply gas right-of-way pipeline originating at Century Offshore Management Corporation's Platform "A" in Block 107 and terminating at Zilkha's Caisson No. 1 in Block 106, all being located in the South Timbalier Area, Offshore, Louisiana.

In accordance with regulations contained in Title 30 CFR 250.158(a), your office was notified prior to commencement of installation and hydrostatic testing of the subject pipeline.

In accordance with regulations contained in Title 30 CFR 250.158(b), enclosed in triplicate is the "as-built" pipeline route map and hydrostatic test pressure data.

Should you have any questions regarding this data, please contact our regulatory agent, Connie J. Goers, J. Connor Consulting at (713) 558-0607.

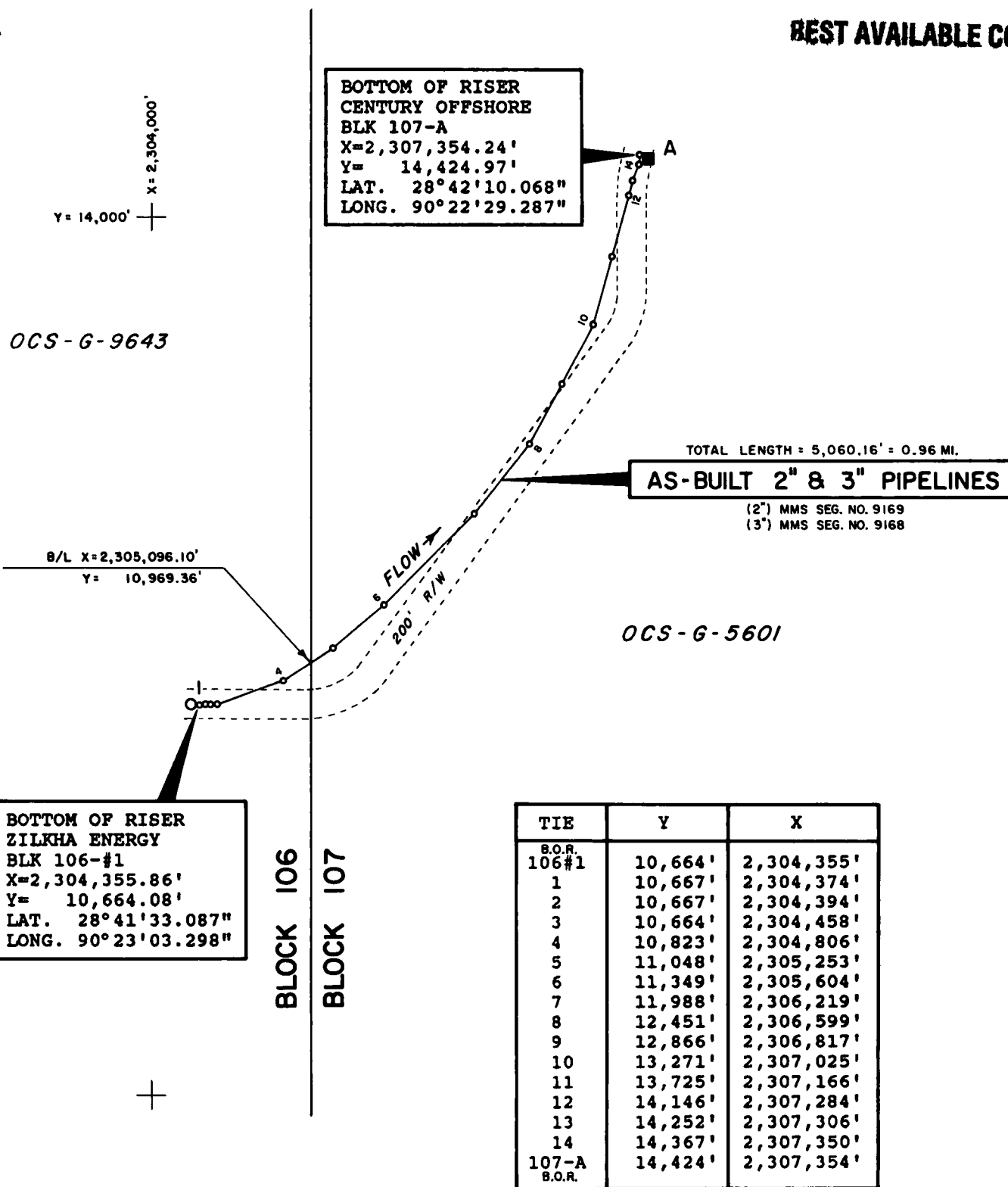
Sincerely,

ZILKHA ENERGY COMPANY

J. Bradley Juneau
Vice President

JBj:CJG
Enclosures

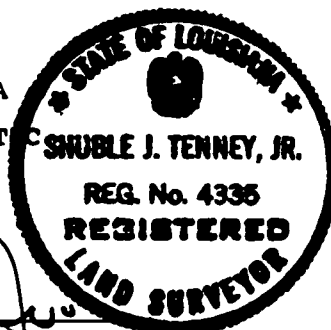
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COORDINATES ARE BASED ON THE LOUISIANA (Lambert) PLANE COORDINATE SYSTEM, SOUTH ZONE (Grid Units in Feet) GEODETIC DATUM: NAD 1927, CLARKE 1866 SPHEROID

CERTIFIED CORRECT AS TO HORIZONTAL POSITION OF AS-BUILT PIPELINES

REGISTERED LAND SURVEYOR NO. 4335
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AS-BUILT 2" & 3" PIPELINES

SOUTH TIMBALIER AREA
GULF OF MEXICO

Prepared For Subsea Int.

SCALE: 1" = 1000'

9/26/90

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Report No. 2

Project No. 902180

Company ZILKHA Date 9-16-90

Pipeline Description 2" Supply Line

Testing Contractor SUB SEA INT

Construction Contractor SUB SEA INT

Section Tested From: MP/Sta. ST 107 A To: MP/Sta. ST 106 #1

Pump Location: MP/Sta. ST 107 A Press. Recorder Loc: MP/Sta. ST 107 A

Length of Section Approx 5342.66 Volume of Section Approx 109.56 Cu Ft.

Test Pressure 1850 Min 1900 Max

Pipe Tested (size, wt., grade, type and manufacturer) _____

2", Sch 80, B, A106

Type and Source of Test Medium SEA WATER

Additive NONE Quantity of Additive N/A
(Quantity per Unit Vol.)

Elevation Difference of Section 6.5 feet 2.8 psi

Time and Date Test Started 3:55 a.m. 9-16-90

Time and Date Test Ended 11:55 a.m. 9-16-90

Section Accepted ☒ Section Leaking ☐ Section Ruptured ☐

Location and Type of Failure _____

Remarks _____

Company Representative _____ Date _____

Contractor Representative D. Embury Date 9-16-90

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HYDROTEST REPORT

SHEET 2

BEST AVAILABLE COPY



COMPANY ZILKHA

REPORT NO. 2
PROJECT NO. 902180
DATE 9-16-90

	TIME	PRESS. PSIG	WATER TEMP °F	AIR TEMP °F
1	1555	1897	91°	81°
2	1625	1895	90°	81°
3	1655	1894	90°	81°
4	1725	1893	92°	82°
5	1755	1891	91°	81°
6	1825	1889	90°	80°
7	1855	1888	89°	80°
8	1925	1887	88°	79°
9	1955	1886	88°	79°
10	2025	1885	88°	79°
11	2055	1884	88°	80°
12	2125	1884	88°	80°
13	2155	1883	87°	80°
14	2225	1883	87°	80°
15	2255	1883	87°	80°
16	2325	1883	87°	80°
17	2355	1883	87°	79°
18				
19				
20				

	TIME	PRESS. PSIG	WATER TEMP °F	AIR TEMP °F
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				
31				
32				
33				
34				
35				
36				
37				
38				
39				
40				

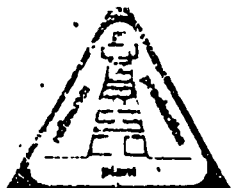
THIS IS TO CERTIFY THAT THE ABOVE IS A TRUE AND ACCURATE RECORDING OF THIS HYDROSTATIC TEST AS INDICATED BY THE FOLLOWING CERTIFIED DEAD WEIGHT TESTER.

MAKE REFINELY SUPPLY SERIAL NO. 202

LAST CALIBRATION DATE: 6-14-90

INSPECTOR'S SIGNATURE _____ DATE _____

CONTRACTOR'S SIGNATURE Daniel E. ... DATE 9-16-90



Over 35 Years

OGASCO

Oil & Gas Specialties Company

11321 Todd St • Box 9306 • Houston, Texas 77255 • (713) 686-3444 • Telex 29-3368

CALIBRATION CERTIFICATE

Manufacturer REFINERY SUPPLY Type of Instrument DEAD WEIGHT

Model Number _____ Serial Number 202 Range 0-10,000#

Date of Calibration 6/14/90 Inspector *D. Rogers*
DAVID ROGERS

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CALIBRATION

INCREASING PRESSURE/TEMPERATURE			DECREASING PRESSURE/TEMPERATURE		
APPLIED	INDICATED		APPLIED	INDICATED	
0	0		10,000#	10,003#	
2500#	2501#		7500#	7499#	
5000#	5002#		5000#	5002#	
7500#	7499#		2500#	2501#	
10,000#	10,003#		0	0	

This is to certify that the above described device has been inspected and tested against the following standard:

Pressure VTX 802-0084 SN:2790 NBS Reference P-7819

Temperature 19240-2 SN:152904048 NBS Reference U.S. TESTING 83-0492

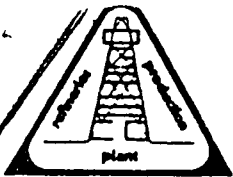
Testing was conducted with the device in the () Vertical position
() Horizontal position

OGASCO BRANCH OFFICES

Box 51424 OCS
Lafayette Louisiana 70505
(318) 235 4444
(318) 235 5823

Box 93
Harvey Louisiana 70054
(504) 367 7914

P.O. Box 6157
Tulsa Oklahoma 74146
(918) 832 8975



Over 35 Years

OGASCO

Oil & Gas Specialties Company

11321 Todd St • Box 55306 • Houston, Texas 77255 • (713) 686-3444 • Telex 29-3368

CALIBRATION CERTIFICATE

Manufacturer BARTON Type of Instrument RECORDER

Model Number _____ Serial Number 08547 Range 0-150°F

Date of Calibration 5/30/90 Inspector David Rogers
DAVID ROGERS

CALIBRATION

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INCREASING PRESSURE/TEMPERATURE			DECREASING PRESSURE/TEMPERATURE		
APPLIED	INDICATED		APPLIED	INDICATED	
34°F	34°F		150°F	150°F	
50°F	50°F		125°F	125°F	
75°F	75°F		100°F	101°F	
100°F	101°F		75°F	75°F	
125°F	125°F		50°F	50°F	
150°F	150°F		34°F	34°F	

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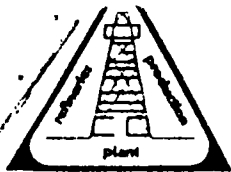
Testing was conducted with the device in the () Vertical position
() Horizontal position

OGASCO BRANCH OFFICES

Box 51424 OCS
Lafayette, Louisiana 70505
(318) 235-4444
(318) 235 5823

Box 93
Harvey Louisiana 70059
(504) 367 7914

P.O. Box 6157
Tulsa Oklahoma 74148
(918) 832 8975



Over 35 Years

OGASCO

Oil & Gas Specialties Company

11321 Todd St • Box 55306 • Houston, Texas 77255 • (713) 686-3444 • Telex 29-3368

CALIBRATION CERTIFICATE

Manufacturer BARTON Type of Instrument RECORDER

Model Number _____ Serial Number 32688 Range 0-10,000#

Date of Calibration 5/30/90 Inspector David Rogers
DAVID ROGERS

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CALIBRATION

INCREASING PRESSURE/TEMPERATURE			DECREASING PRESSURE/TEMPERATURE		
APPLIED	INDICATED		APPLIED	INDICATED	
0	0		10,000#	10,000#	
2500#	2500#		7500#	7500#	
5000#	5000#		5000#	5000#	
7500#	7500#		2500#	2500#	
10,000#	10,000#		0	0	

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Testing was conducted with the device in the () Vertical position
() Horizontal position

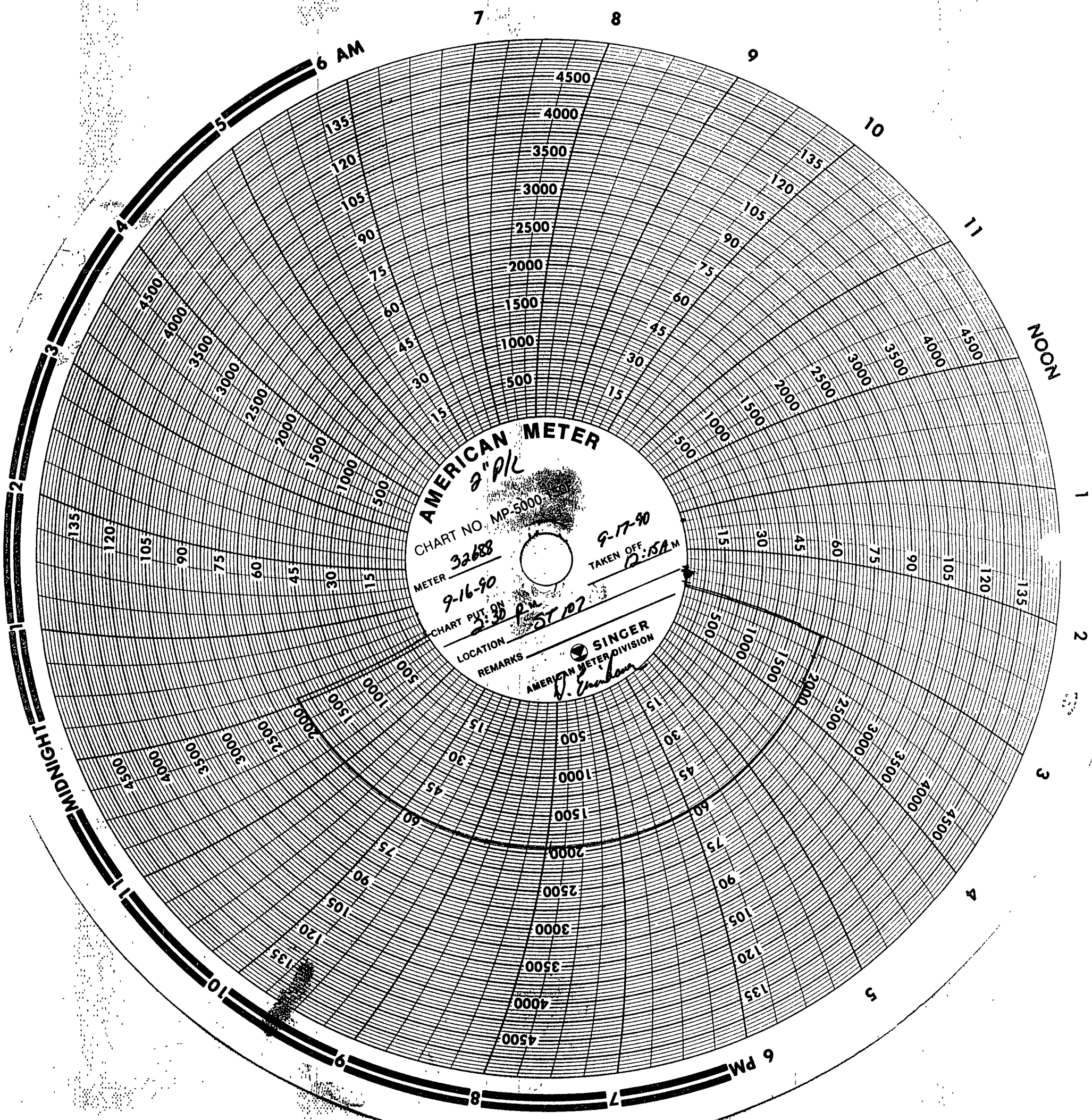
OGASCO BRANCH OFFICES

Box 51424 OCS
Lafayette, Louisiana 70505
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(318) 235 5823

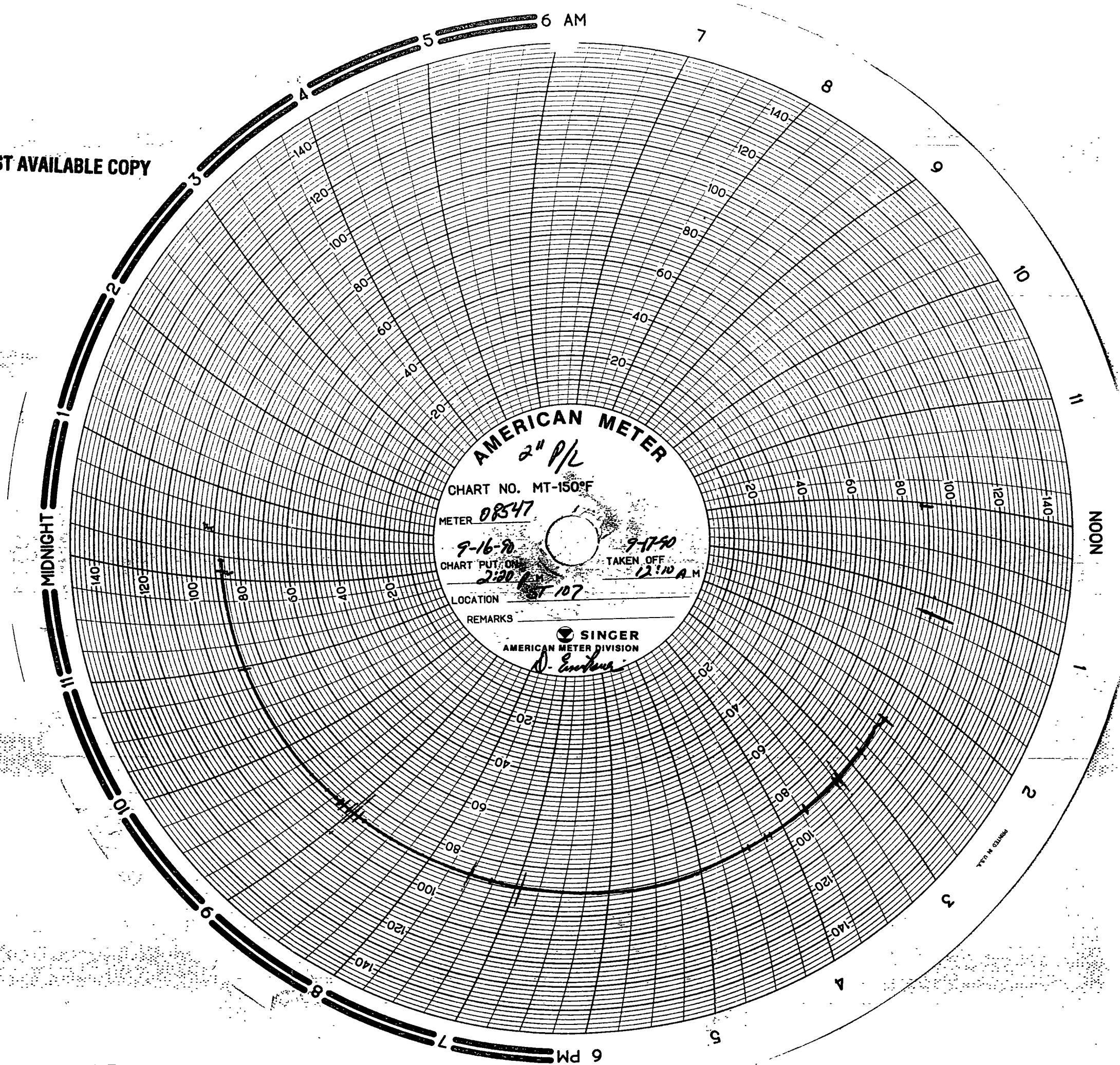
Box 93
Harvey Louisiana 70059
(504) 367 7914

P.O. Box 6157
Tulsa Oklahoma 74148
(918) 832 8975

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PIPELINE INSPECTION CHECK LIST

Date of Inspection: 10/9/90

Company Contact: Todd Eshelman

Lessee/Operator: Century

Contractor: Basso Pro Light
Barge ID

NHS Inspector: S. L. LEST

Barge or Platform: _____
Location

Segment No.: OCS-6 12890

DOI/DOI: (101)

From: ST 108A

To: ST 106A

PIPELINE CONSTRUCTION/SPECIFICATIONS

Size: _____

Wall Thickness: _____

Grade: _____

Anodes: _____

Seamless: _____

Type: _____ Weight: _____

Coating: _____

No.: _____ Spacing: _____

Pipeline Crossing & Clearance: _____

Burial Depth: _____

Existing Pipeline(s) Bouyed: _____

Valves/Taps Cover: _____

Length: _____

HIP DATA

(Medium) Water or Product

Duration Time

Pressure (PSI)

MINIMUM RATING OF VALVES, FLANGES, FITTINGS AND PRESSURE DATA

Rating: _____

Approved MAOP: _____

Service: _____

Pipeline Flowing Pressure: _____

Source: _____

Range Selling

IF Well(s), SLP: _____

High Sensor(s): _____

Low Sensor(s): _____

PSV: _____

Is low sensor installed where it could not be isolated? _____

RISER PROTECTION

Coating: _____ Bumper Guard: _____ Splash Guard: _____

Water Depth: _____

Remarks: No Churn Area yet!

OPTION : GOM OCS REGION
SN _____

UNITED STATES DEPARTMENT OF THE INTERIOR
MINERALS MANAGEMENT SERVICE
GULF OF MEXICO OCS REGION
PIPELINE INSPECTION FORM

OIS ID: PPLFORM
DATE: 03/27/90
PAGE: 1

DATE OF THIS INSP: ____/____/____

*** PIPELINE MASTER ***

SECTORY NO	ROW NO	OPERATOR NAME	APPROVAL CODE	AUTHORITY CLAUSE	PIPE SIZE	PRODUCT CODE						
NEW	_____	_____	_____	_____	_____	_____						
ID	ORIGIN AREA	BLOCK	LEASE	ID	DESTINATION AREA	BLOCK	LEASE	PIPE LENGTH	APPROVAL DATE			
NEW	_____	_____	_____	_____	_____	_____	_____	_____	____/____/____			
INITIAL TEST DATE	CATH CODE	CATH LIFE	DIRECT CODE	SYSTEM DESIG	MIN DEPTH	MAX DEPTH	BURIED DESIG	RECEIV PIPE SEGMENT	RECEIV PIPE PRESSURE	MAX ALLOW PRESSURE	DEPART CODE	STATUS
NEW	____/____/____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____

BEST AVAILABLE COPY

OPTION : GOM OCS REGION

UNITED STATES DEPARTMENT OF THE INTERIOR
MINERALS MANAGEMENT SERVICE
GULF OF MEXICO OCS REGION
PIPELINE INSPECTION FORM

OIS ID: PPLFORM
DATE: 03/27/90
PAGE: 2

DATE OF THIS INSP: ____/____/____

*** DEPARTURES APPROVED ***

LINE NO	DATE ADDED	PINC NO	DATE ISSUED	COMMENTS
---	____/____/____	_____	____/____/____	_____
---	____/____/____	_____	____/____/____	_____
---	____/____/____	_____	____/____/____	_____
---	____/____/____	_____	____/____/____	_____
---	____/____/____	_____	____/____/____	_____
---	____/____/____	_____	____/____/____	_____

OPTION : GOM OCS REGION

UNITED STATES DEPARTMENT OF THE INTERIOR
MINERALS MANAGEMENT SERVICE
GULF OF MEXICO OCS REGION
PIPELINE INSPECTION FORM

OIS ID: PPLFORM
DATE: 03/27/90
PAGE: 3

DATE OF THIS INSP: 9/16/90

*** INSPECTION SUMMARY ***

	-- TIME SUMMARY --		TYPE INSPECTION		INSPECTOR'S CODE		INSPECTOR'S NAME SIGNATURE
	LAST	CURRENT	LAST	CURRENT	LAST	CURRENT	
INSPECTION	---	HR	---	HR	---	---	
WAITING	---	HR	---	HR	---	---	
TRAVEL	---	HR	---	HR	---	---	
TOTAL	---	HR	---	HR	---	---	_____

*** ENFORCEMENT ACTION ***

LINE INC NO	ITEM NAME	ENF ACT	---SHUT-IN---		---REOPENED---		COMMENTS	LOST OIL	LOST GAS	AVG OIL	AVG GAS
			DATE	TIME	DATE	TIME					
NO	NO		MO-DA-YR	HR	MO-DA-YR	HR					
---	_____	---	____/____/____	____	____/____/____	____	_____	_____	_____	_____	_____
---	_____	---	____/____/____	____	____/____/____	____	_____	_____	_____	_____	_____
---	_____	---	____/____/____	____	____/____/____	____	_____	_____	_____	_____	_____
---	_____	---	____/____/____	____	____/____/____	____	_____	_____	_____	_____	_____

*** REMARKS ***

LINE NO	LINE NO
---	---
---	---
---	---
---	---

Britton 10-3-90
Alvarado 10-2-90

SN 9169

BEST AVAILABLE COPY

OCT 03 1990

In Reply Refer To: MS 5232

Zilkha Energy Company
Attention: Mr. John B. Juneau
1201 Louisiana, Suite 3200
Houston, Texas 77002-5223

Gentlemen:

Your letter dated August 17, 1990, requests approval to eliminate the flow safety valve (FSV) and the shutdown valve (SDV) on the following pipeline boarding the South Timbalier Block 106, Well No. 1 caisson:

<u>Pipeline Segment No.</u>	<u>Size (inches)</u>	<u>Length (feet)</u>	<u>Service</u>	<u>From</u>	<u>To</u>
9169 (ROW OCS-G 12340)	2 3/8	5,465	Supply Gas	Platform A South Timbalier Block 107 Lease OCS-G 5601	Well No. 1 South Timbalier Block 106 Lease OCS-G 9643

Pursuant to 30 CFR 250.3(a), approval to eliminate the FSV and the SDV on the aforementioned pipeline boarding the South Timbalier Block 106, Well No. 1 caisson is hereby granted.

Sincerely,

(Orig. Sgd.) A. Donald Giroir

D. J. Bourgeois
Regional Supervisor
Field Operations

bec: 1502-01 P/L OCS-G 12340 w/orig. appln (K.Faust) (MS 5232)
1502-01 P/L OCS-G 12340 w/cy of appln C.Williams (MS 5033)
MS 5250

ABritton:ds:10/2/90:WP

OK
10/9/90
K

PM E
N/K
O/K

Letter to District in Houston 8-90

OCS-G 12340

Segno. 9169

ZILKHA ENERGY COMPANY

1201 LOUISIANA STREET, SUITE 3200
HOUSTON, TEXAS 77002-5223

TELEPHONE
(713) 655-5900

TELECOPIER
(713) 655-5961

August 17, 1990

BEST AVAILABLE COPY

Mr. Daniel J. Bourgeois
Regional Director
U. S. Department of the Interior
Minerals Management Service
Gulf of Mexico OCS Region
1201 Elmwood Park Boulevard
New Orleans, Louisiana 70123-2394



Attention: Ms. Carol Williams
FO-2-2

RE: Application for a 2-3/8" O.D. Dehydrated Natural Gas Right-of-Way Pipeline to be Installed In and/or Through Blocks 106 and 107, South Timbalier Area, Gulf of Mexico, Federal Waters, Offshore, Louisiana

Gentlemen:

Zilkha Energy Company hereby requests a departure from 30 CFR 250.154 (b)(1) and (b)(2) whereby incoming pipelines must be equipped with a flow safety valve (FSV) and an automatic shutdown valve (SDV).

This departure is requested due to the fact that the flow to the caisson is effectively limited by the SDV on the South Timbalier 107 Platform "A", and the amount of gas contained in the pipeline is negligible.

If you should have any questions or need additional information, please call Mrs. Susan Hathcock, J. Connor Consulting at 713/558-0607.

Connie Goers

Sincerely,

John B. Juneau /sh

John B. Juneau
Vice President

JBj:SH:me

ST106.PL

CENTURY OFFSHORE
MANAGEMENT CORP.
OCS-G 5601
SOUTH TIMBALIER BLK 107

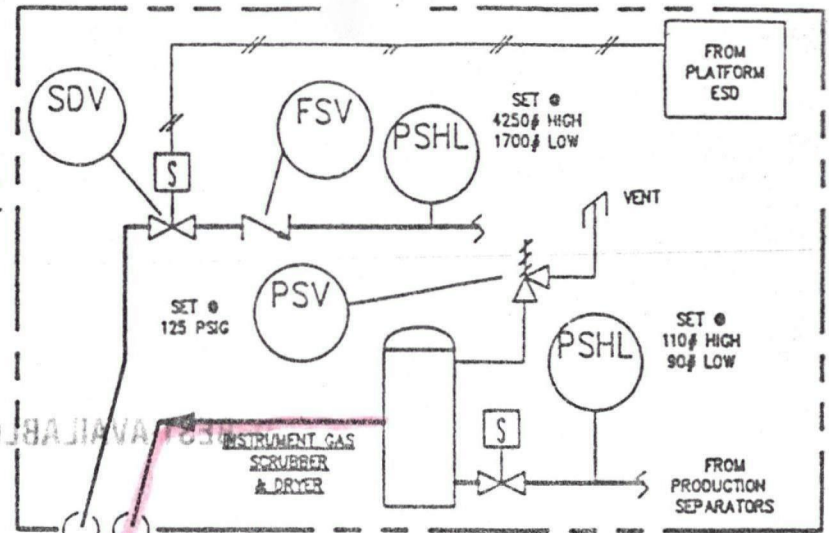
RISER 100'
3 1/2" x 0.438" W.T.
API 5L(42 ksi)

RISER 100'
3 1/2" x 0.438" W.T.
API 5L(42 ksi)

NOT AVAILABLE COPY

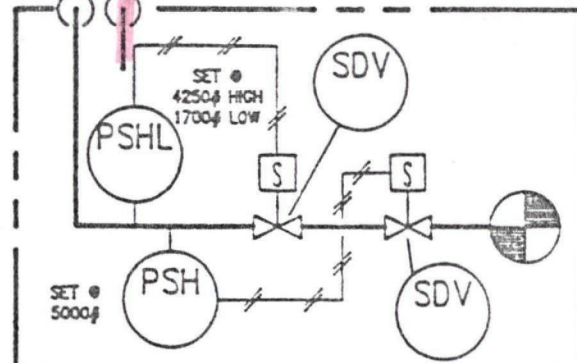
3 1/2" O.D. x 0.300" W.T. API 5L(42 ksi)
(PIPELINE & RISER)
2 3/8" O.D. x 0.218" W.T. ASTM A-106-B

ZILKHA ENERGY CO.
OCS-G 9643
WELL No.1
SOUTH TIMBALIER BLK 106



GENERAL NOTES:

1. ZILKHA ENERGY CO. FACILITIES COMPLY WITH 30 CFR 250, SUBPART J.
2. A SHUTDOWN VALVE TIED INTO THE PRODUCTION ESC SYSTEM IS USED ON THE PRODUCTION FACILITIES.
3. 3 1/2" PIPELINE SHALL TRANSPORT GAS, CONDENSATE AND WATER.
4. ALL VALVES AND FITTINGS ON 3 1/2" PIPELINE ARE API 5000.
5. 2 3/8" PIPELINE SHALL TRANSPORT DEHYDRATED NATURAL GAS FOR WELLHEAD VALVE CONTROL AND OPERATION OF THE WELLHEAD PANEL HYDRAULIC PUMP.
6. ALL FITTINGS ON 2 3/8" PIPELINE ARE ANSI 600#.



(ROW OCS-G 12340)
Seq. No. 9169



BEST AVAILABLE COPY

4 J085\90293\13\005
DATE: 7-27-90

REV. NO.	REVISION	BY	DATE	CHK	PARAGON ENGINEERING SERVICES HOUSTON, TEXAS	ZILKHA ENERGY COMPANY SAFETY SCHEMATIC THREE PHASE PIPELINE & INSTRUMENT GAS LINE
					DRAWN	JOB NO.
					CHECKED	DRAWING NUMBER
					APPROVED	REV
					BY KAH	
0	ISSUED FOR PERMIT	IKH17-90188	DATE 7-23-90			90293 90293-13-005 0

Britton 8-29-90

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UNITED STATES GOVERNMENT
MEMORANDUM

August 29, 1990

To: District Supervisor, Field Operations, GOM OCS Region (MS 5250)

From: Supervisor, Pipeline Unit, Plans and Pipeline Section,
Field Operations, GOM OCS Region (MS 5232)

Subject: Elimination of FSV and SDV on the Incoming Pipeline

Transmitted herewith, for your review is a copy of Zilkha Energy Company's letter dated August 17, 1990, requesting approval to eliminate the FSV and the SDV on the following incoming pipeline on the South Timbalier Block 106, Well No. 1 Caisson:

<u>Pipeline Segment No.</u>	<u>Size (inches)</u>	<u>Length (feet)</u>	<u>Service</u>	<u>From</u>	<u>To</u>
9169 (ROW OCS-G 12340)	2 3/8	5,465	Supply Gas	Platform A Block 107 South Timbalier Lease OCS-G 5601	Well No. 1 Block 106 South Timbalier Lease OCS-G 9643

(orig. sgd.) A. P. Alvarado

Alex Alvarado

cc: 1502-01 Zilkha Energy Company (MS 5232)

ABritton:lr:8/29/90

UNITED STATES GOVERNMENT
MEMORANDUM



September 17, 1990

To: Supervisor, Pipeline Unit, Plans and Pipeline Section,
Field Operations, GOM OCS Region (MS 5232)

From: District Supervisor, New Orleans District, GOM OCS Region (MS 5250)

Subject: Elimination of FSV and SDV on the Incoming Pipeline

We have received your memorandum dated August 17, 1990, with a copy of Zilkal's letter of August 17, 1990, requesting approval to eliminate the FSV and the SDV on the following incoming pipeline on the South Timbalier Block 106, Well No. 1 Caisson:

<u>Pipeline Segment No.</u>	<u>Size (inches)</u>	<u>Length (feet)</u>	<u>Service</u>	<u>From</u>	<u>To</u>
9169 (ROW OCS-G 12340)	2 3/8	5,465	Supply Gas	Platform A Block 107 South Timbalier Lease OCS-G 5601	Well No. 1 Block 106 South Timbalier Lease OCS-G 9643

We recommend approval.

A handwritten signature in black ink, appearing to read 'Don Howard'.

Donald C. Howard

cc: Well No.1, OCS-G 9643 w/1tr & atch (MS 5250)

RPKirk:ssw

SN9169

Brutler 8-31-90
 Alvarado 8-31-90
 Stauffer 8/31/90

BEST AVAILABLE COPY

AUG 31 1990

In Reply Refer To: MS 5232 (OCS-G 12340)

Zilkha Energy Company
 Attention: Mr. John B. Juneau
 1201 Louisiana, Suite 3200
 Houston, Texas 77002-5223

Gentlemen:

Pursuant to the authority granted by 43 U.S.C. 1334(e) and 30 CFR 250.150(b) and (d), your application dated August 1, supplemented August 14 and 31, 1990, for a pipeline right-of-way grant two-hundred feet (200') in width for the installation, operation, and maintenance of a 2 3/8-inch pipeline, 1.01 miles in length, is hereby approved, as proposed.

The proposed pipeline will transport supply gas from Century Offshore Management Corporation's Platform A in Block 107 to Zilkha Energy Company's Caisson No. 1 in Block 106, all in the South Timbalier Area.

The right-of-way grant and pipeline approval are subject to the following conditions:

1. Our analyses indicate the following as potential hazards to the proposed activities. Therefore, precautions as outlined in Notice to Lessees and Operators No. 83-3, Section IV.B, shall be taken prior to conducting operations:

a. Pipeline

<u>Name</u>	<u>Diameter (inches)</u>	<u>Block</u>	<u>Area</u>
Century Offshore Management Corporation	10	106	South Timbalier

b. Magnetic Anomalies

<u>Block</u>	<u>Line No.</u>	<u>Shot Point</u>	<u>Amplitude (gammas)</u>
106	2	6.6	930
106	1	6.2	1,350

2. Zilkha Energy Company's request to operate the supply gas pipeline without a boarding shutdown and flow safety valve is being considered under a separate cover.

3. Zilkha Energy Company's regional Oil Spill Contingency Plan approved on August 6, 1990, shall cover this pipeline operation.

PDB

ex msp
 2/2/91

BEST AVAILABLE COPY

2

Based on our analysis of your application, the maximum allowable operating pressure for this pipeline will be 1,480 psig.

Sincerely,

(Orig. Sgd.) William H. Martin

D. J. Bourgeois
Regional Supervisor
Field Operations

bcc: 1502-01 (P/L OCS-G 12340) w/enclosures (K.Faust) (MS 5232)
1502-01 (P/L OCS-G 12340) (C.Williams) (MS 5033)
MS 5250
MS 5440
MS 5421, w/receipt
MS 5232 Carto, w/plat

ABritton:ds:8/31/90:WP

ZILKHA ENERGY COMPANY

OCS-G
12340
MS 5232

August 1, 1990



Mr. Daniel J. Bourgeois
Regional Director
U. S. Department of the Interior
Minerals Management Service
Gulf of Mexico OCS Region
1201 Elmwood Park Boulevard
New Orleans, Louisiana 70123-2394

Attention: Ms. Carol Williams
FO-2-2

RE: Application for a 2-3/8" O.D. Dehydrated Natural Gas Right-of-Way Pipeline to be Installed In and/or Through Blocks 106 and 107, South Timbalier Area, Gulf of Mexico, Federal Waters, Offshore, Louisiana

Gentlemen:

Pursuant to the authority granted in Section 5 (e) of the Outer Continental Shelf Lands Act (67 Stat. 462) (43 U.S.C. 1331), as amended (92 Sta. 629), and in compliance with the regulations contained in Title 30 CFR, Part 250, Subpart J, Zilkha Energy Company (Zilkha) is filing this application in quadruplicate (original and three copies) for a right-of-way two hundred feet (200') in width for the construction, maintenance and operation of a 2-3/8" O.D. dehydrated natural gas pipeline in the South Timbalier Area, Gulf of Mexico. Zilkha agrees that said right-of-way, if approved, will be subject to the terms and conditions of said regulations.

This 2-3/8 inch pipeline will be used to transport dehydrated natural gas from Century Offshore Management Corporation's (Century's) Platform "A", OCS-G 5601, in South Timbalier Area Block 107 to Zilkha's Caisson No. 1 in OCS-G 9643, South Timbalier Area Block 106. The pipeline will depart Century's Platform "A" in a southwesterly direction and traverse approximately 5,464.88 feet (1.035 miles) to Zilkha's Caisson No. 1., all being in the Gulf of Mexico, Federal Waters, Offshore Louisiana. The proposed construction commencement date is September 1, 1990, with the time required to lay the pipe being estimated at 7 days with an overall of project time being estimated at 10 days.

Minerals Management Service
Zilkha Energy Company's
2-3/8-Inch O.D. R-O-W Application

Page Two

This application (and any amendments made hereto) is made with our full knowledge and concurrence with the OCS Lands Act (43 U.S.C. 1331, et. seq.), as amended (P.L. 95-372), including the following: Sec. 5(e) addressing pipeline rights-of-way, requirements of the Federal Energy Regulatory Commission relating to notice of hearing, transportation and purchase of oil and gas without discrimination; Sec. 5(f)(1) addressing operation of pipelines in accordance with competitive principles, including open and nondiscriminatory access to both owner and non-owner shippers; Sec. 5(f)(2) which may allow exemption of the requirements in Sec. 5(f)(1); Sec. 5(e) addressing the assuring of maximum environmental protection, including the safest practices for pipeline installation; and Sec. 5(f)(1)(B) which may require expansion of throughput capacity of any pipeline except for the Gulf of Mexico or the Santa Barbara Channel.

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

In accordance with applicable regulations, we have forwarded information regarding the proposed project by certified mail, return receipt requested, to each lessee, right-of-way or easement holder whose lease, right-of-way or easement is so affected. A list of such lessees, right-of-way or easement holders is included as Attachment "A" and copies of the return receipts showing date and signature as evidence of service upon such lessees, right-of-way or easement holders will be forwarded to your office when received. In order to expedite the permit process, we have requested a letter from the lessee, right-of-way or easement holder expressing no objection to the proposed project. When obtained, these letters will be forwarded to your office. The proposed right-of-way does not adjoin or subsequently cross state submerged lands.

Applicant agrees to be bound by the foregoing regulations, and further agrees to comply with the applicable stipulations as set forth in the OCS Pipeline Procedures Guidebook dated March, 1984, revised September, 1984.

Minerals Management Service
Zilkha Energy Company's
2-3/8" Inch O.D. R-O-W Application

Page Three

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

1. Lessees and Right-of-Way Holders (Attachment "A")
2. General Pipeline Information and Calculations (Attachment "B")
3. Vicinity Map (Drawing No. 90293-13-002)
4. Route Map (Drawing No. 90293-13-004)
5. Safety Schematic (Drawing No. 90293-13-005)
6. Riser Guard/Boat Landing Plan (Drawing No. 90293-13-006)
7. Oceanonics, Inc. Engineering and Pipeline Pre-Lay Survey Report (2 copies)
8. Originally signed copy of Nondiscrimination in Employment Stipulation is attached to each copy of the application.
9. Check Nos. 03490 and 7769 dated July 31 and August 1, 1990, respectively in the amounts of \$ 1,415.00 and \$15.00, respectively, of which, \$1400.00 covers the application fee and \$30.00 covers the first years rental on 1.035 miles of right-of-way.

Contact on technical points or other information:

Susan Hathcock
J. Connor Consulting
P. O. Box 218753
Houston, Texas 77218
Telephone: 713/558-0607

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


Minerals Management Service
Zilkha Energy Company's
2-3/8-Inch O.D. R-O-W Application

Page Four

Please refer to your New Orleans Miscellaneous File No. 1138 for a copy of a resolution approved by the Board of Directors authorizing the undersigned to sign for and on behalf of Zilkha.

If the above information meets with your approval, we would appreciate your issuing the necessary decision for the right-of-way at your earliest convenience. Inquiries concerning this application should be directed to our regulatory agent at J. Connor Consulting, P. O. Box 218753, Houston, Texas, Attention: Ms. Susan Hathcock (713) 558-0607.

Sincerely,

A handwritten signature in cursive script, appearing to read "John B. Juneau".

John B. Juneau
Vice President

JBj:SH:bna
Attachments and Enclosures

ATTACHMENT "A"

The following Lessees and Right-of-Way Holders have been furnished information regarding the proposed pipeline installation by Certified Mail, Return Receipt Requested.

**Century Offshore Management Corporation
3900 N. Causeway Boulevard
Suite 500 Mezzanine
Metairie, LA 70002**

ZILKHA ENERGY COMPANY

Application to install and operate a 2 3/8" O.D. pipeline in South Timbalier Area, Blocks 106 and 107, Offshore Louisiana.

GENERAL INFORMATION

A. Location

See Attached Vicinity Map

From: Century Offshore Management Corp.
South Timbalier Block 107
OCS-G 5601 - Platform A

To: Zilkha Energy Company
South Timbalier Block 106
OCS-G 9643 - Well #1

B. Product Transported

Dehydrated Natural Gas
Gas - Density = .60 (air = 1.0)

C. Pipeline Length

5,465 feet (1.035 miles)

D. Pipe Data

	Line	Risers
Diameter (outside)	2 3/8"	2 3/8"
Wall Thickness	0.218"	0.218"
Weight	5.02 #/ft.	5.02 #/ft.
Type and Grade	API 5L smls	API 5L smls
Minimum Yield Strength	35,000 psi	35,000 psi
Specific Gravity	2.55	2.55

E. Hydrostatic Test Pressure

Test Pressure (HTP)	1,850 psig
Hold Time	8 hours
Testing Medium	Inhibited Seawater

F. Cathodic Protection

The 2 3/8" line will be laid with the 3 1/2" line. Aluminum anodes from the 3 1/2" line will be electrically linked to the 2 3/8" line to provide cathodic protection for both lines. Anode design life exceeds 20 years.

G. Protective Coating

Fusion Bonded Epoxy - 12/14 mils

H. Water Depth

65 ft. - 80 ft.

- I. Internal Corrosion Protection No internal coating will be used. Corrosion inhibitor will be injected as required.
- J. Flow Rate Minimal amount of instrument gas for wellhead control.
- K. Line Pressures Anticipated Operating = 125 psi
Design Pressure = 1,480 psi
Maximum Source (MSP) = 285 psi
Receiving Facility MAOP = 285 psi
- L. Valves and Fittings ANSI 600 lb.
- M. Construction Schedule
Start September 1, 1990
Duration Approx. 7 - 10 days
- N. Riser Protection - Riser will be installed inside the boat landing at the caisson and the riser protector at the platform.
- O. Pipeline Burial - Buried with 5' cover within 300' of platform and with 3' of cover for the remainder of route.

P. MAOP = 285 psi (Set by Receiving Facility MAOP)

(1) Line Pipe

$$\text{MAOP} = \frac{2 \cdot s \cdot t \cdot F}{\phi} = \frac{2 \cdot (35,000) \cdot (.218) \cdot (0.72)}{(2.375)} = 4,626 \text{ psi}$$

(2) Riser Pipe

$$\text{MAOP} = \frac{2 \cdot s \cdot t \cdot F}{\phi} = \frac{2 \cdot (35,000) \cdot (.218) \cdot (0.50)}{(2.375)} = 3,213 \text{ psi}$$

(3) Valves and Fittings

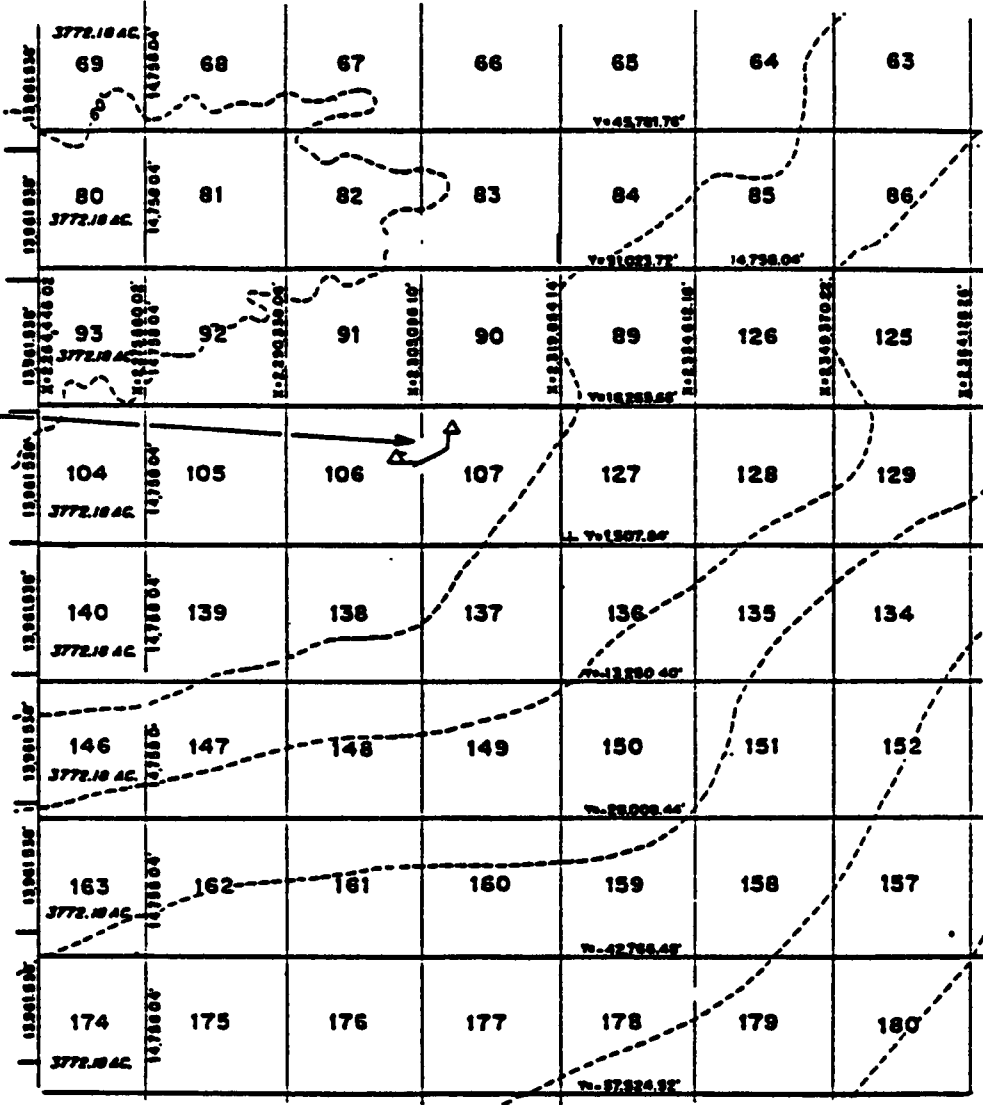
$$\text{MAOP} - \text{ANSI Class 600} = 1,480 \text{ psi } (100^{\circ}\text{F})$$

(4) Hydrostatic Test Pressure Limits

$$\text{Minimum} = 1.25 \cdot (\text{Design Pressure}) = 1.25 \times 1,480 = 1,850 \text{ psi}$$

$$\text{Maximum} = 0.95 \cdot (\text{SMYS}) = \frac{2 \cdot (35,000) \cdot (.218) \cdot (0.95)}{(2.375)} = 6,104 \text{ psi}$$

PROPOSED 3" & 2" PIPELINES



BEST AVAILABLE COPY

VICINITY MAP
GULF OF MEXICO
SOUTH TIMBALIER AREA

4\A085\90293\13\200
DATE: 7-24-90

REV. NO.	REVISION	BY	DATE	CHK	PARAGON ENGINEERING SERVICES HOUSTON, TEXAS	ZILKHA ENERGY COMPANY VICINITY MAP SOUTH TIMBALIER 106 & 107			
						JOB NO.	DRAWING NUMBER	REV.	
0	ISSUED FOR PERMIT	KH	7-24-90	BB	DATE	7-24-90	90293	90293-13-002	0

ZILKHA ENERGY COMPANY

August 13, 1990

Mr. Daniel J. Bourgeois
Regional Director
U. S. Department of the Interior
Minerals Management Service
Gulf of Mexico OCS Region
1201 Elmwood Park Boulevard
New Orleans, Louisiana 70123-2394



Attention: Ms. Carol Williams
FO-2-2

RE: Application for a 2-3/8" O.D. Dehydrated Natural Gas Right-of-Way Pipeline to be Installed In and/or Through Blocks 106 and 107, South Timbalier Area, Gulf of Mexico, Federal Waters, Offshore, Louisiana

Gentlemen:

Enclosed are four (4) copies of a revised route map for the 2-3/8" O.D. dehydrated natural gas right-of-way pipeline to be installed in and/or through South Timbalier Blocks 106 and 107. Please note the only change is that the pipeline will cross Century's 10" pipeline in South Timbalier Block 107 near Platform "A". This change was required by Century.

Also enclosed are four (4) copies of a typical pipeline crossing schematic. Please include this information with the application submitted on August 1, 1990.

If you have any questions or need additional information, please call Mrs. Susan Hathcock, J. Connor Consulting at 713/558-0607.

Sincerely,

John B. Juneau
Vice President

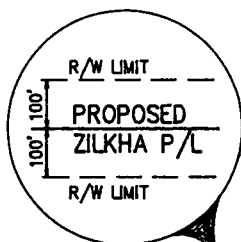
JBj:SH:me

Enclosures

BEST AVAILABLE COPY

GULF OF MEXICO

SOUTH TIMBALIER
AREA



ZILKHA ST 106
WELL No. 1 CAISSON
X=2,304,355.86
Y= 10,664.08
LAT.=28°41'33.11"N
LONG.=90°23'03.40"W

CENTURY OFFSHORE
OCS-G 5601

CENTURY PLATFORM
WELL No. 2
X=2,307,392.68
Y= 14,461.51
LAT.=28°42'10.42"N
LONG.=90°22'28.85"W

CENTURY P/L CROSSING
X=2,307,323.40
Y= 14,348.03

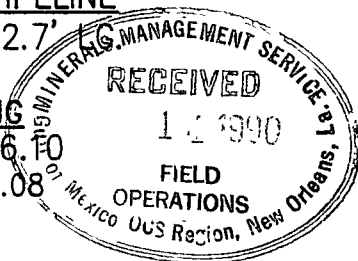
ZILKHA ENERGY
OCS-G 9643

PROPOSED ZILKHA
2" PIPELINE
5,352.7'

BLOCK CROSSING
X = 2,305,096.10
Y = 10,664.08

NOTE:

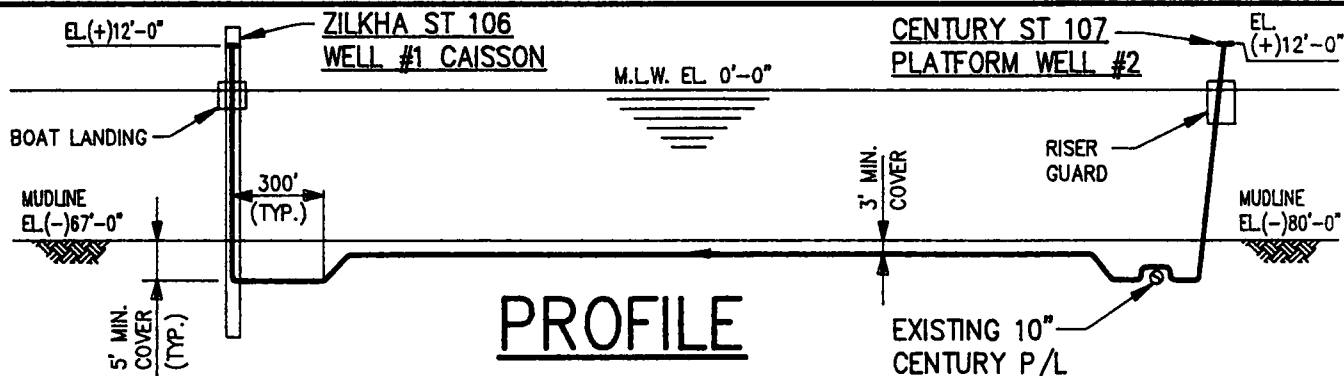
2" PIPELINE IS TO BE
BANDED WITH 3" PIPELINE
& LAID ON THE SAME
RIGHT OF WAY.



PLAN

1"=2000'

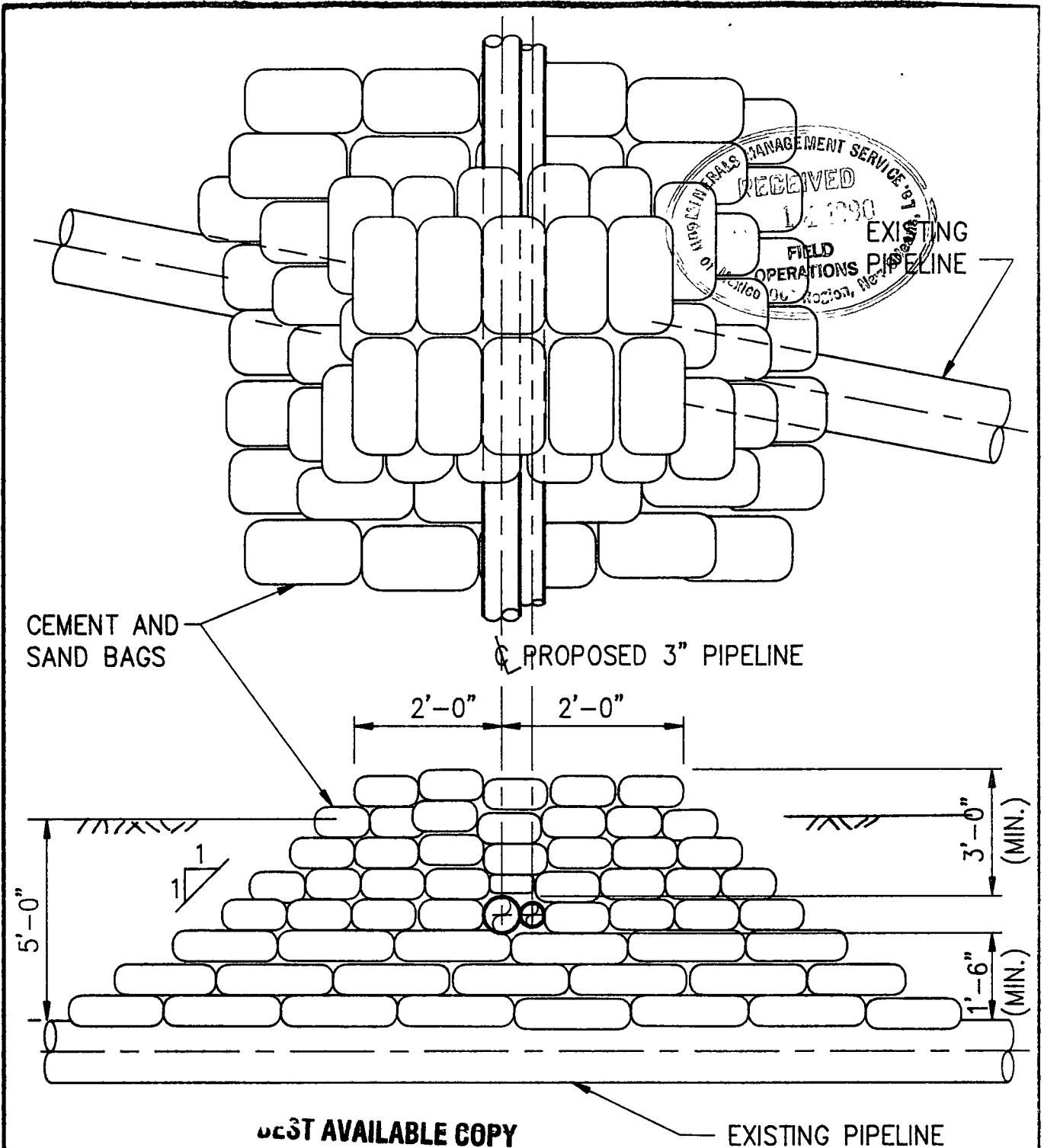
J:\JOBS\90293\13\004
DATE: 8-10-90



PROFILE

REV. NO.	REVISION	BY	DATE	CHK	PARAGON ENGINEERING SERVICES HOUSTON, TEXAS			ZILKHA ENERGY COMPANY PLAN AND PROFILE PROPOSED 2" PIPELINE S. TIMBALIER AREA BLKS. 106 & 107		
2	SHOW P/L CROSSING	KH	8-90	LD	DRAWN	CHECKED	APPROVED	JOB NO.	DRAWING NUMBER	REV.
1	NEW ROUTE	KH	8-90	LD	BY	KAH		90293	90293-13-004	2
0	ISSUED FOR PERMIT	KH	7-90	BB	DATE	7-26-90				

G12340 S.E.# 9169



NOTES:

1. CEMENT AND SAND MIXTURE SHALL BE 1 TO 3 PARTS BY WEIGHT.
2. BAGS SHALL BE MADE OF CLOSELY WOVEN MATERIAL WITH A WICKING ACTION.
3. BAGS SHALL BE CLOSED BY SEWING OR THE EQUIVALENT, BUT NOT BY BUNCHING AND TYING THE ENDS.
4. SANDBAGS SHALL WEIGH APPROXIMATELY 80#/BAG WITH .91 CU. FT. OF VOLUME PER BAG.

REV. NO.	REVISION	BY	DATE	CHK	PARAGON ENGINEERING SERVICES HOUSTON, TEXAS			ZILKHA ENERGY COMPANY 10" PIPELINE CROSSING PROPOSED 3" & 2" PIPELINES SOUTH TIMBALIER AREA BLOCK 107		
					DRAWN	CHECKED	APPROVED	JOB NO.	DRAWING NUMBER	REV.
0	INITIAL ISSUE	KH	8-90	LD	BY KAH			90293	90293-13-007	0
					DATE	8/10/90				

**CENTURY OFFSHORE
MANAGEMENT CORP.**
OCS-G 5601
SOUTH TIMBALIER BLK 107

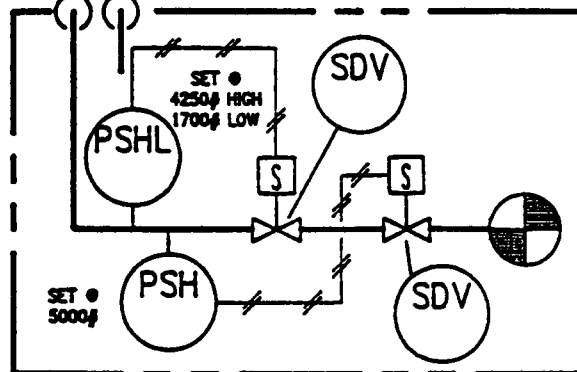
*without
a properly checked SDV
or properly checked well
head control valve
is not allowed*

RISER 100'
3 1/2" x 0.438" W.T.
API 5L(42 ksi)

RISER 100'
3 1/2" x 0.438" W.T.
API 5L(42 ksi)

3 1/2" O.D. x 0.300" W.T. API 5L(42 ksi)
(PIPELINE & RISER)
2 3/8" O.D. x 0.218" W.T. ASTM A-106-B

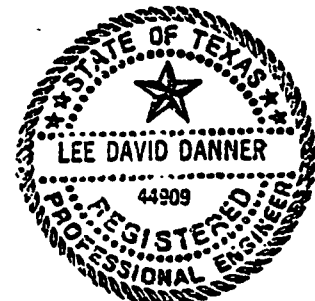
ZILKHA ENERGY CO.
OCS-G 9643
WELL No.1
SOUTH TIMBALIER BLK 106



GENERAL NOTES:

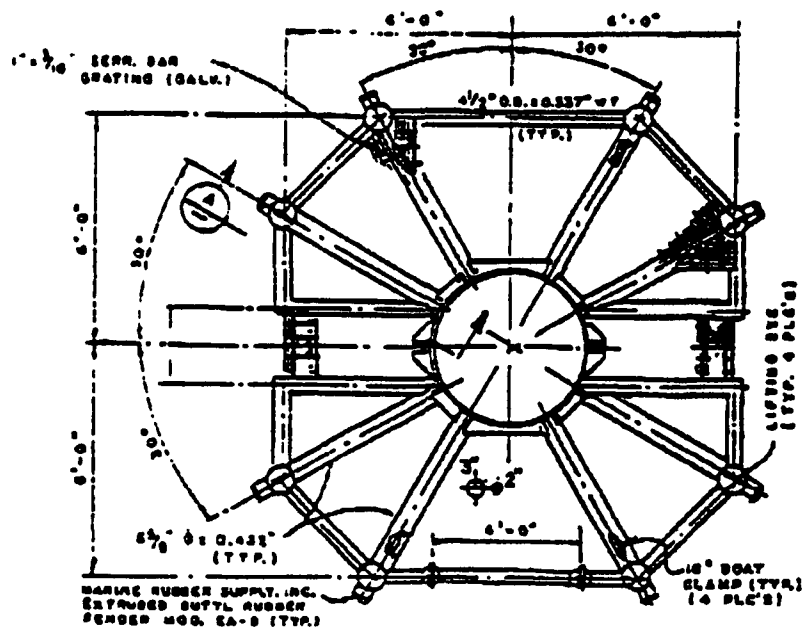
1. ZILKHA ENERGY CO. FACILITIES COMPLY WITH 30 CFR 250, SUBPART J.
2. A SHUTDOWN VALVE TIED INTO THE PRODUCTION ESD SYSTEM IS USED ON THE PRODUCTION FACILITIES.
3. 3 1/2" PIPELINE SHALL TRANSPORT GAS, CONDENSATE AND WATER.
4. ALL VALVES AND FITTINGS ON 3 1/2" PIPELINE ARE API 5000.
5. 2 3/8" PIPELINE SHALL TRANSPORT DEHYDRATED NATURAL GAS FOR WELLHEAD VALVE CONTROL AND OPERATION OF THE WELLHEAD PANEL HYDRAULIC PUMP.
6. ALL FITTINGS ON 2 3/8" PIPELINE ARE ANSI 600#.

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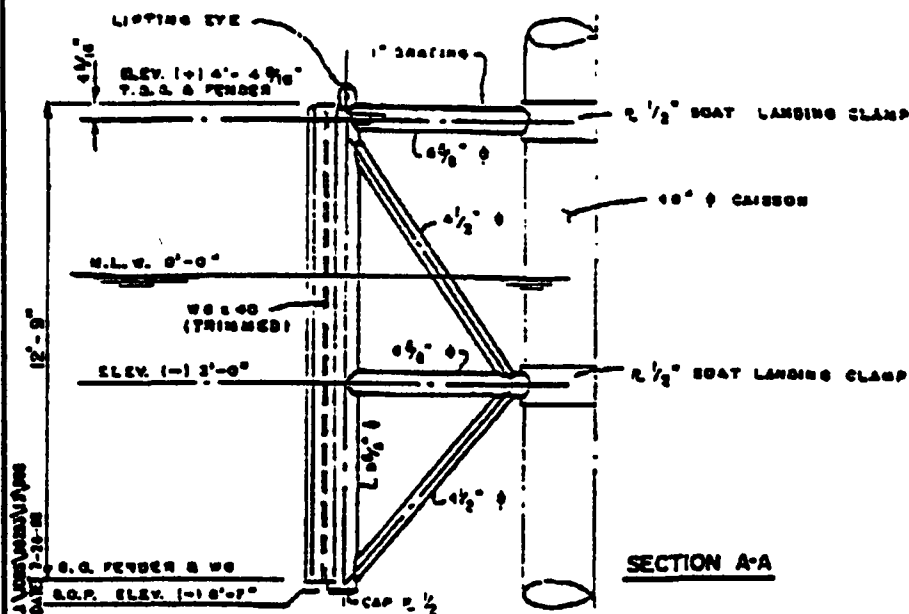


4/085/90293/13/005
DATE: 7-27-90

REV. NO.	REVISION	BY	DATE	CHK	PARAGON			ZILKHA ENERGY COMPANY		
					ENGINEERING SERVICES			SAFETY SCHEMATIC		
					HOUSTON, TEXAS			THREE PHASE PIPELINE		
								& INSTRUMENT GAS LINE		
					DRAWN	CHECKED	APPROVED	JOB NO.	DRAWING NUMBER	REV.
					BY KAH			90293	90293-13-005	0
0	ISSUED FOR PERMIT	KH	7-23-90	BB	DATE	7-23-90				



PLAN



SECTION A-A

REV. NO.	REVISION	BY	DATE	<h1>PARAGON</h1> <p>ENGINEERING SERVICES HOUSTON, TEXAS</p>			<p>ZILCHA ENERGY COMPANY RISER GUARD/BOAT LANDING PLAN AND SECTION SOUTH TIMBALIER BLOCK 106</p>		
				DESIGNED	CHECKED	APPROVED	JOB NO.	DRAWING NUMBER	REV.
0	ISSUED FOR PERMIT	KH7-MBN	DATE 7-25-90	BY KAH			90293	90293-13-008	0

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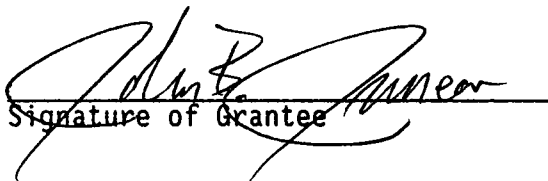
UNITED STATES
DEPARTMENT OF THE INTERIOR
MINERALS MANAGEMENT SERVICE

NONDISCRIMINATION IN EMPLOYMENT

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

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

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


Signature of Grantee

John B. Juneau, Vice President

July 31, 1990
Date

*in Accordance of
Original
marked in Red
OK*

PIPELINE RIGHT-OF-WAY APPLICATION "ENGINEERING CHECKLIST"

MINERALS MANAGEMENT SERVICE
GOM REGIONAL OFFICE

Date:

8-6-90

OCS-G

12340

- A. Description of pipeline and location of proposed route (i.e., size of pipe, product to be transported, from where to where, platform number, name, block number, area, and distance in feet and miles):** *2 3/8-inch supply line ~~4.4 ft. or 7.0 ft.~~ 5060' or 0.96 miles from Century's Platform A in Block 107 to Zilkha's Caisson No 1 in Block 106, all in the South Timbalier Area.*
- B. Safety Flow Schematic - Verify that the information shown on the safety flow schematic diagram contains the following:**
- ☒ 1. Pressure source is drawn into the schematic with the following:
 - a. source (i.e., name) Separators (DOI)
 - b. design working pressure _____
 - c. high-low pressure sensor settings 110/90
 - ☒ 2. "ANSI" ratings of all valves, flanges, and fittings between the source and the connecting pipeline are shown. Ansi 600
 - ☒ 3. Pressure relief valves, where applicable, are shown with the setting set no higher than the maximum working pressure (MWP) of the vessel.
 - ☒ 4. If the maximum input source pressure is greater than the maximum allowable operating pressure (MAOP) of the pipeline, redundant safety equipment is required. N/A
 - ☒ 5. MAOP of proposed pipeline does not exceed MAOP of connecting pipeline. N/A
 - ☒ 6. The pipeline leaving the platform receiving production from the platform is equipped with high-low pressure sensors to directly or indirectly shut-in the well or wells on the platform.
 - ☒ 7. The pipeline delivering production to the production facilities on the platform is equipped with an automatic fail-close valve tied into the automatic and remote shut-in system.
 - ☒ 8. The pipeline crossing the platform which does not deliver production to the platform, but which may or may not receive production from the platform, is equipped with high-low pressure sensors connected to an automatic fail-close valve located in the upstream portion of the pipeline at the platform. In addition, the sensors are tied into either the platform's automatic and remote shut-in system or an independent remote shut-in system. N/A

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

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

- _____ 1. Product to be transported: dehydrated natural gas
- _____ 2. Pipeline, riser, and subsea valve assembly specifications:
- (1) Size 23" Wall Thickness .218" Grade X60B Weight 5.02 lbs/ft.
- (2) Size _____ Wall Thickness _____ Grade _____ Weight _____ lbs/ft.
- (3) Size _____ Wall Thickness _____ Grade _____ Weight _____ lbs/ft.
- b. Riser: SAME
- (1) Size _____ Wall Thickness _____ Grade _____ Weight _____ lbs/ft.
- (2) Size _____ Wall Thickness _____ Grade _____ Weight _____ lbs/ft.
- (3) Size _____ Wall Thickness _____ Grade _____ Weight _____ lbs/ft.
- c. Subsea valve assembly:
- (1) Size _____ Wall Thickness _____ Grade _____ Weight _____ lbs/ft.
- (2) Size _____ Wall Thickness _____ Grade _____ Weight _____ lbs/ft.

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3. Water depth: Maximum 80 Minimum 65

4. Type of corrosion protection:

☐ a. Impressed current system

☐ b. Sacrificial anode system

(1) Type of anode _____

(2) Spacing interval _____ ft.

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

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

Yes _____ No _____

☐ d. If pipeline anodes are used:

Formula: $L_p/I = 3.82 \times 10^4 \times W^0/DIR =$

Where:

W^0 = Weight of Anode unit (lbs)

D = Dia. of pipe (inches)

I = Separation between anodes (ft.)

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

Aluminum or Galvalum = 7.6

Zinc = 26

Magnesium = 17.5

Does the calculated life expectancy equal or exceed 20 years?

Yes _____ No _____

5. Description of protective coating:

a. Pipeline 12/14 mils epoxy

☒ b. Riser

c. Subsea valve assembly

6. Description of weighted coating:

a. Preconcrete coating _____

b. Density of concrete _____ PCF

c. Thickness of concrete _____

d. Thickness of asphalt _____

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

See attached
Note

25 years

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_____ a. For epoxy coating: $SG = 2.865W/D^2$

2.54

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

_____ c. Lines with a specific thickness of concrete:

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

_____ d. Lines having two coatings of enamel and a felt wrap, or only asphaltastic coating:

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

Where:

SG = specific gravity

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

K_1, K_2, K_3 = coefficients

T = thickness of concrete coating (inches)

W = weight of bare pipe (lb/ft)

P = weight of coating

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

D = diameter of pipe (inches)

A = cross-sectional area

_____ 8. Given specific gravity

a. 2.55 b. _____ c. _____

_____ 9. Gravity or density of product(s) 60

_____ 10. Design capacity of pipeline _____

_____ 11. Given Hydrostatic Test Pressure: Line Pipe 1800 Hold Time 8 hrs.

Preinstallation Test _____ Riser _____ Hold Time _____ hrs.

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

ANSI 300 - 1,100 psig

ANSI 400 - 1,450 psig

ANSI 600 - 2,175 psig

ANSI 900 - 3,250 psig

ANSI 1,500 - 5,400 psig

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Note: Minimum hold times:

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

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

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

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

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

a. MAOP =

$$\frac{2(218)(35,000)}{2.38} = 6411 \times .72$$

b. MAOP =

$$= 4616$$

c. MAOP =

13. MAOP of riser pipe.

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

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

a. MAOP =

$$6411 \times .60 = 3,847$$

b. MAOP =

14. MAOP of flanges, fittings, and valves:

2.4 x ANSI rating =

$$\text{Ansi } 600 \quad 1480$$

15. MAOP of proposed pipeline as determined in accordance with Title 49 CFR Part 195 or 192, as applicable, is 1480 psig.

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

17. Verify: 1.25 maximum source pressure (MSP) \leq hydrostatic test pressure (HTP) \leq .95 (smaller IP @ SMYS of Items 12 or 13 above)

$$\underline{\quad\quad\quad} \leq \frac{1830}{83} \leq \underline{6090}$$

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

$$IP \leq SMYS = \frac{2 \times 1 \times 1}{D}$$

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

a. Submerged components: HTP/1.25 =

b. Riser: HTP/1.5 =

$$\frac{1830}{1.25} = 1464$$

19. Valve guards used: Yes _____ No _____

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D. Installation Requirements:

1. All pipelines will be installed or laid to a minimum of three feet below the level of the mudline out to and including the 200 foot water depth, except at pipeline crossings. Any deviation must be justified at the time of application.
2. All valves and taps must be provided with a minimum of three feet of actual cover either with soil or sandbags or jetted to a minimum of three feet below the mudline. If AHS approved valve protection covers are used, the valves and taps are NOT required to have a minimum of three feet of actual cover or jetted three feet below the mudline. However, the top of the valve protection cover shall not protrude above the level of the mudline. Any deviation must be justified at the time of application.

E. Pipeline Crossings:

- N/A 1. All pipeline crossings in water depths up to and including 200 feet shall be cement-bagged with a minimum of 18 inches between the lines with the uppermost line having a minimum of 3 feet of cover in the form of cement bags installed so as to provide a three foot horizontal to a one foot vertical (3:1) slope with a crown width that is one and one-half (1½) times the pipe diameter. Any deviation must be justified at the time of application.
- N/A 2. All pipeline crossings in water depths greater than 200 feet shall be cement bagged with a minimum of 18 inches between the lines and installed so as to provide a three foot horizontal to a one foot vertical (3:1) slope. Any deviation must be justified at the time of application.

F. Construction Information:

1. Proposed construction commencement date

Sept 1, 1990

2. Method of construction

3. Method of burial

4. Time required to lay pipe

7 days

5. Time required to complete project

16 days

G. Applicant complies with current OCS pipeline guidelines:

Yes _____ No _____

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$$\begin{aligned}
 \text{Current required } (CR) &= \text{protected area} \times \text{current density} \\
 &= \pi d(L) \times .005 \text{ amp}/\text{ft}^2 \\
 &= \frac{3.14(3.5)(5465) + 3.14(2.375)(5465)}{12}
 \end{aligned}$$

$$\times 0.005 \text{ amp}/\text{ft}^2$$

$$= 8405 \cancel{\text{ft}^2} \times 0.005 \text{ amp}/\cancel{\text{ft}^2}$$

$$= 42.02 \text{ amp}$$

Assuming 2% Damaged Coating

$$\begin{aligned}
 CR &= 42.02 (0.02) \\
 &= 0.841 \text{ amp}
 \end{aligned}$$

~~$$\text{Weight required} = \text{current (amp)} \times \text{design life}$$~~

$$\begin{aligned}
 \text{Design life YRS} &= \frac{WT \text{ (lbs)}}{\text{current (amp)} \times \text{Consumption rate } \frac{\text{lbs}}{\text{amp-YR}}} \\
 &= \frac{11(15) \text{ lbs}}{0.841 \text{ amp} \times 7.6 \frac{\text{lbs}}{\text{amp-YR}}} \\
 &= 25.815 \text{ YRS}
 \end{aligned}$$

ZILKHA ENERGY COMPANY

1201 Louisiana, Suite 3200
Houston, TX 77002
713/655-5900

August 31, 1990



Mr. Daniel J. Bourgeois
Regional Director
U. S. Department of the Interior
Minerals Management Service
Gulf of Mexico OCS Region
1201 Elmwood Park Boulevard
New Orleans, Louisiana 70123-2394

Attention: Mr. Autry Britton
FO-2-2

RE: Application for a 2-3/8" O.D. Dehydrated Natural Gas Right-of-Way Pipeline and a 3-1/2" O.D. Natural Gas Pipeline Right-of-Way to be Installed In and/or Through Blocks 106 and 107, South Timbalier Area, Gulf of Mexico, Federal Waters, Offshore, Louisiana

Gentlemen:

Zilkha Energy Company submitted the referenced pipeline applications on August 2, 1990. The applications stated the pipeline lengths were 5,464.88' (1.035 miles). On August 14, 1990, revised route maps were submitted due to the fact that Century Offshore Management Corporation (operator of South Timbalier 107 "A") required the pipelines to come up a different leg of the structure. The correct pipeline lengths are 5,352.7' (1.01 miles) as indicated on the revised route maps submitted August 14, 1990.

If you have any questions, please call Mrs. Susan Hathock of J. Connor Consulting at 713/558-0607.

Sincerely,

J. Bradley Juneau
Vice President, Exploration

JBj:SH:me

UNITED STATES GOVERNMENT
MEMORANDUM

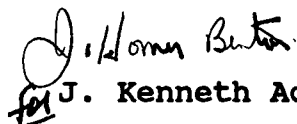
August 31, 1990

To: Regional Supervisor, Field Operations, GOM OCS Region
(MS 5200)

From: Regional Supervisor, Leasing and Environment, GOM OCS
Region (MS 5400)

Subject: National Environmental Policy Act Review for Pipeline
Right-of-Way Application OCS-G 12339, 12340

Our National Environmental Policy Act (NEPA) review of the
subject action is complete. Environmental protective measure(s),
if any, identified to avoid or mitigate potential impacts
associated with the action were included as part of the NEPA
analysis and are shown on the Categorical Exclusion Review (CER).


J. Kenneth Adams

Attachment

cc: Pipeline File OCS-G 9643 and 5601 (MS 5440)

Action No. OCS-G 12339
and OCS-G 12340

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

NEPA CATEGORICAL EXCLUSION REVIEW

The Categorical Exclusion Review (CER) evaluated the proposed action(s) and determined that it meets the categorical exclusion criteria as defined by 516 DM 2.3A(1) which states "(a) The action or group of actions would have no significant effect on the quality of the human environment, and (b) The action or group of actions would not involve unresolved conflicts concerning alternative uses of available resources." The exclusion of this activity from future environmental analysis is conditioned on the imposition of the following mitigative measure(s). These measures are to ensure environmental protection, consistent environmental policy, and safety as required by the NEPA.

Environmental Protective Measures

The following measure was identified in the plan/application by the lessee/operator submitting the proposal: None.

The measures identified by MMS during the plan/application review or in the lease stipulation were:

1. Our analyses indicate the following as potential hazards to the proposed activities. Therefore, precautions in accordance with NTL No. 83-3, Section IV.B, will be taken prior to conducting operations.

Pipelines

<u>Name</u>	<u>Diameter (inches)</u>	<u>Block</u>	<u>Area</u>
Century	10 inches	106	South Timbalier

<u>Blocks</u>	<u>Line No.</u>	<u>Shot Point</u>	<u>Remarks or Amplitude (gammas)</u>
106	2	6.6	930
106	1	6.2	1350

Exclusion Determination

The proposed action was evaluated and reviewed against the CER exception criteria defined by 516 DM 2.3.A(3). With inclusion of the above mitigation, it does not represent an exception to the categorical exclusions. Therefore, preparation of an EA is not required.

8/31/90
Date

Harry J. Rutledge
Preparer

8/31/90
Date

Gerry Brachner
Chief, Environmental
Operations Section

I concur.

9-4-90
Date

J. Homer Benton
Regional Supervisor,
Leasing and Environment