

APR 25 2016

Application No. 13992  
 Name of Applicant NORTHERN NATURAL GAS COMPANY  
 Effective Date 1 4 OCT 1980  
 Expiration Date (if applicable) 31 December 1983

Old Permit No. - 13992  
 New Permit No. - SWG-2009-00759

DEPARTMENT OF THE ARMY  
 PERMIT

Reference to written request dated 28 August 1979 for a permit to  
 Perform work or an activity in navigable waters of the United States upon the recommendation of the Chief of Engineers, pursuant to Section 10 of the Rivers and Harbors Act of March 3, 1899 (33 U.S.C. 403)  
 Discharge needed or the material into waters of the United States upon the issuance of a permit from the Secretary of the Army acting through the Chief of Engineers pursuant to Section 404 of the Federal Water Pollution Control Act (86 Stat. 816, P.L. 92-500)  
 Transport dredged material for the purpose of dumping it into ocean waters upon the issuance of a permit from the Secretary of the Army acting through the Chief of Engineers pursuant to Section 103 of the Marine Protection, Research and Sanctuaries Act of 1972 (86 Stat. 1092, P.L. 92-532).

**Northern Natural Gas Company**  
**2223 Dodge Street**  
**Omaha, Nebraska 68102**

is hereby authorized by the Secretary of the Army

to Place a 6-inch and a 10-inch pipeline.

in the Gulf of Mexico, Galveston and High Island Areas, Galveston East Anchorage Area

at locations in State Tracts 98, 99 and 105 and Federal Blocks 105, 143 and 144, central to a point approximately 8 miles east of Galveston, Texas

in accordance with the plans and drawings attached hereto which are incorporated in and made a part of this permit (on drawings give file number or other definite identification marks.) in six sheets, sheet one of which is entitled "NORTHERN NATURAL GAS COMPANY, DIVISION OF INTERNORTH, INC., GALVESTON AREA BLOCK 144L, PROPOSED 6" & 10" PIPELINE, VICINITY MAP, OFFSHORE TEXAS,"

subject to the following conditions

1. General Conditions:

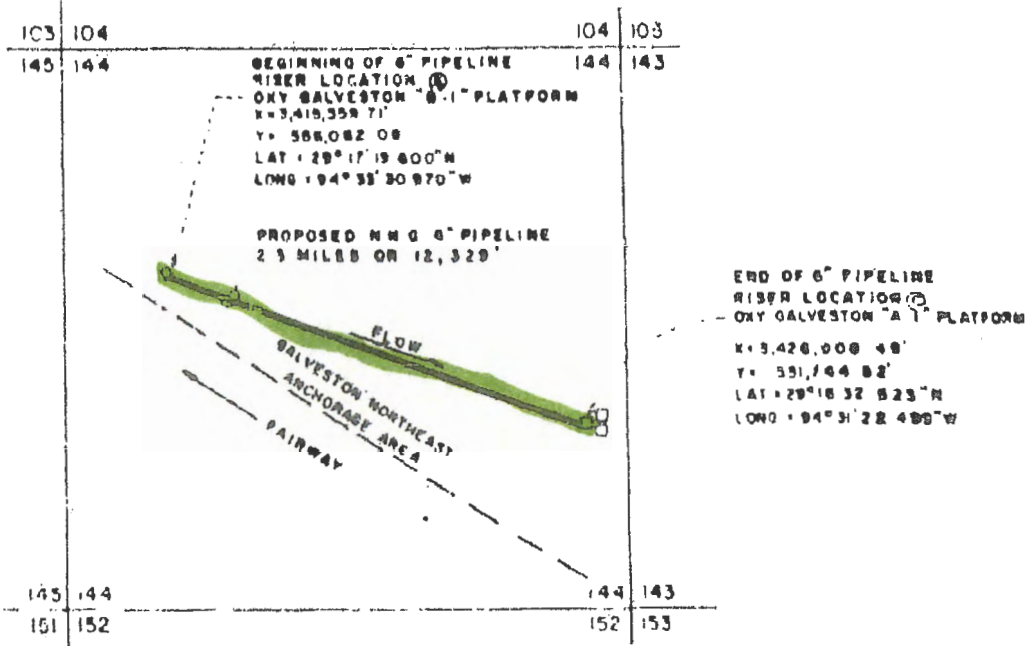
a. That all activities identified and authorized herein shall be consistent with the terms and conditions of this permit and that any activities not specifically identified and authorized herein shall constitute a violation of the terms and conditions of this permit which may result in the modification, suspension or revocation of this permit, in whole or in part, as set forth more specifically in General Conditions j or k hereto, and in the institution of such legal proceedings as the United States Government may consider appropriate, whether or not this permit has been previously modified, suspended or revoked in whole or in part.

ENG FORM 1 JUL 77 1721 EDITION OF 1 APR 74 IS OBSOLETE.

(ER 1146-2 303)

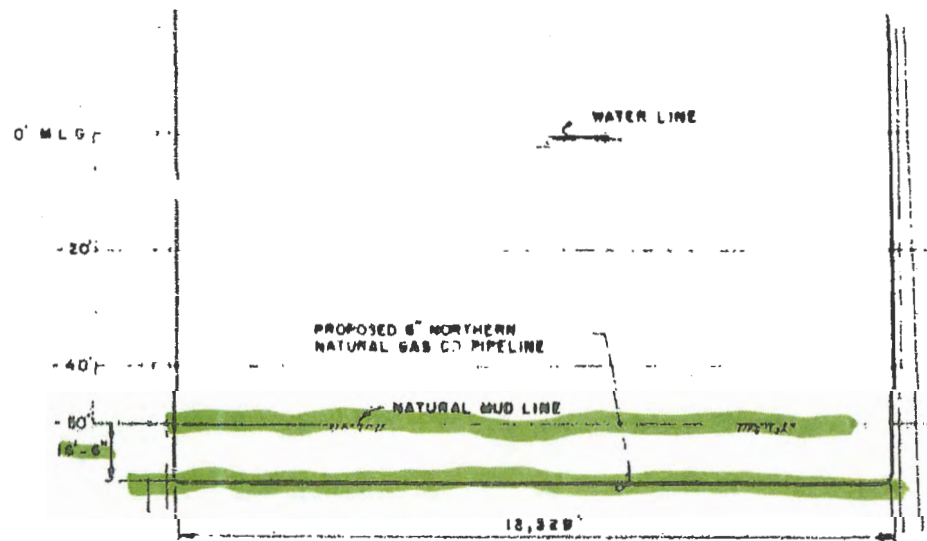
AS  
131  
W/P

APR 25 2016



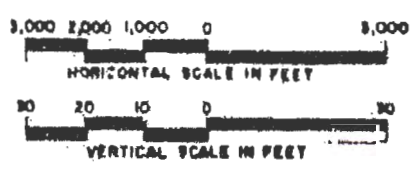
PLAN

OXY GALVESTON "B-1" PLATFORM



I HEREBY CERTIFY THAT THE DESIGN OF THIS PIPELINE COMPLIES WITH DEPARTMENT OF TRANSPORTATION REGULATION PART 192, TITLE 49, AND THAT THIS DRAWING ACCURATELY REFLECTS THE CENTERLINE OF THE PROPOSED PIPELINE RIGHT-OF-WAY.

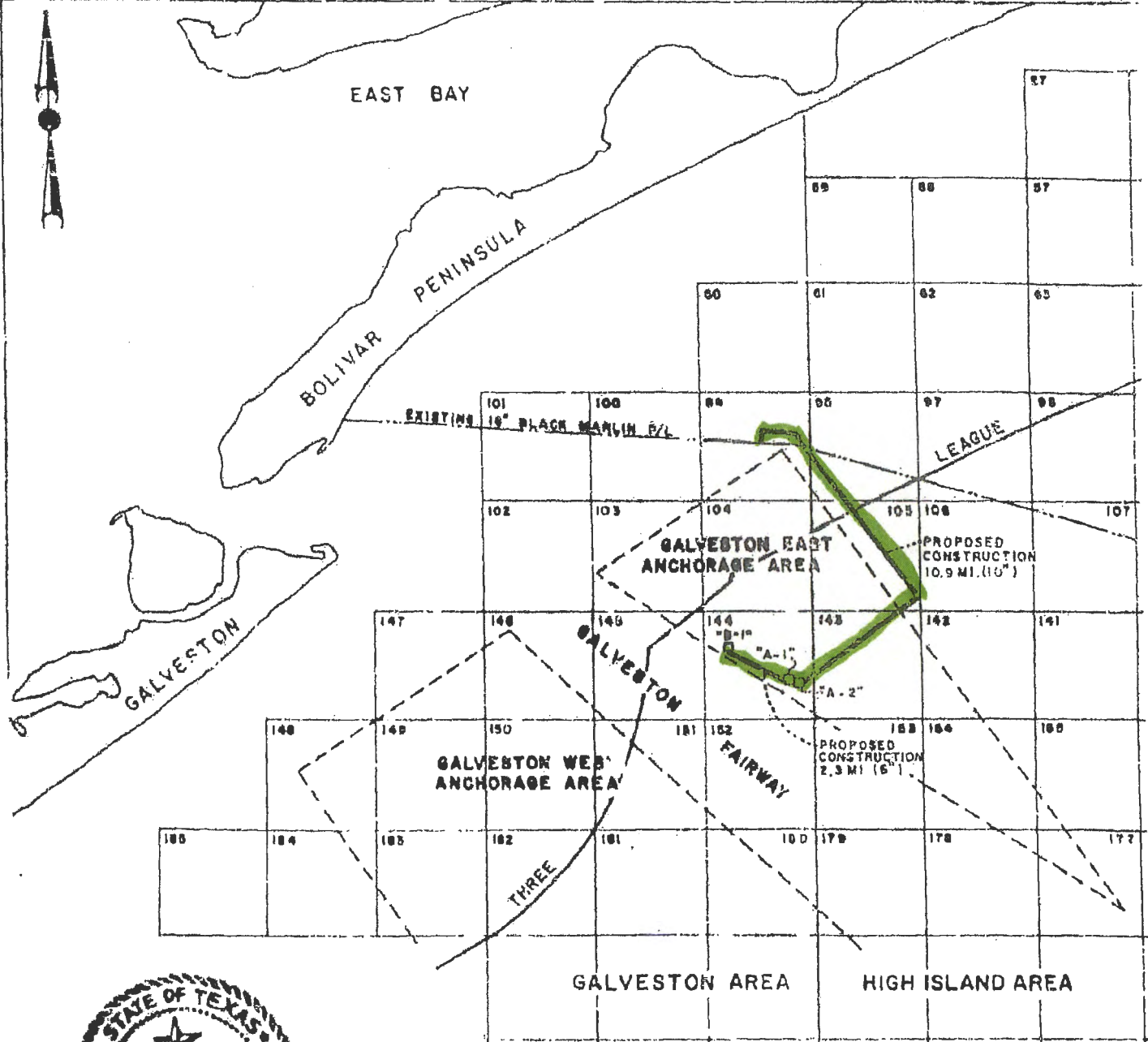
PROFILE



Lee Ken Choo

REROUTED 6" PIPELINE	DATE: 7-18-10
<b>NORTHERN NATURAL GAS COMPANY</b> <b>GALVESTON AREA BLOCK 144 L</b> <b>PROPOSED 6" PIPELINE</b> <b>PLAN &amp; PROFILE</b>	
DRN BY: CAN	DATE: 7-18-10
DWG NO. PE-8	

APR 25 2016



*Lee-Ken Choo*

▲	ADDED GALVESTON/HIGH ISLAND AREA DEMARCATION LINE	8-26-80
▲	REROUTED 6" & 10" PIPELINES	8-2-80
▲	ADD 6" PIPELINE	8-2-80
▲	REVISE THREE LEAGUE LINE	9-17-79

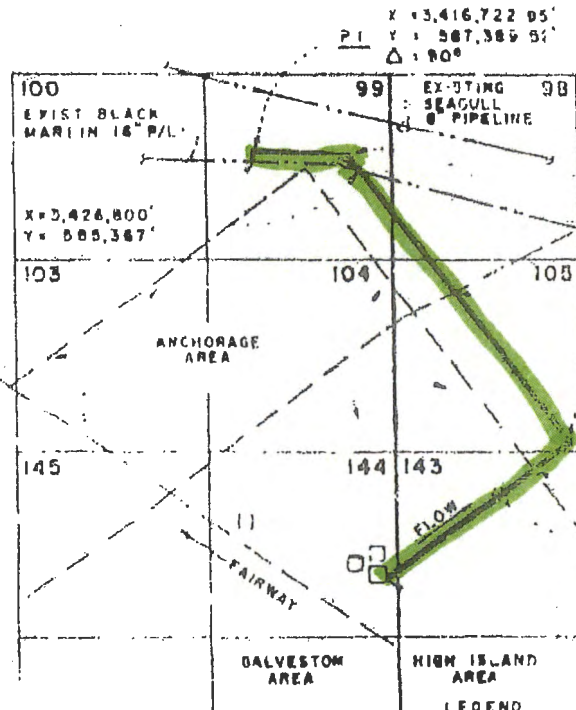
NORTHERN NATURAL GAS COMPANY  
 DIVISION OF INTERNORTH, INC.  
 GALVESTON AREA BLOCK 144L  
 PROPOSED 8" & 10" PIPELINE  
 VICINITY MAP  
 OFFSHORE TEXAS

DWN BY: CAN      DATE: 8-16-79      DWS NO. PE-1

APR 25 2016



TJE-IN  
 X=3,416,722.95'  
 Y= 587,189.52'  
 LAT = 29° 22' 17.067" N  
 LONG = 94° 33' 02.23" W



P.I.  
 X=3,425,510.49'  
 Y= 587,123.71'  
 R=4,500'  
 $\Delta=51^{\circ}58'32.774''$   
 L=4,082.17'  
 T=2,193.62'

TEXAS 3-LEAGUE LINE  
 X=3,433,671'  
 Y= 575,730'

P.I.  
 X=3,442,868.97'  
 Y= 563,485.78'  
 $\Delta=90^{\circ}$

X=3,440,467'  
 Y= 561,687'  
 PROPOSED N N G 10" PIPELINE  
 10.9 MILES OR 57,710'

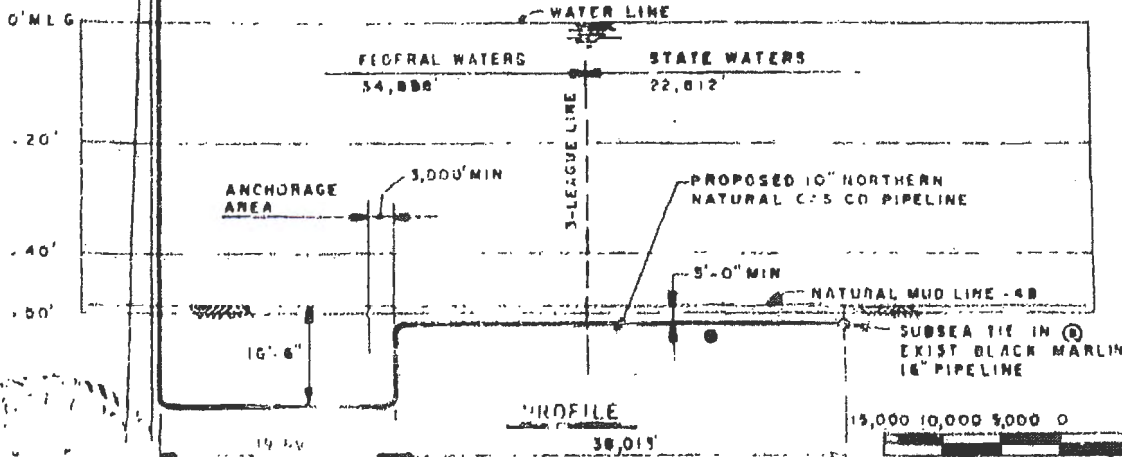
BEGINNING OF 10" PIPELINE  
 RISER LOC'N @ OXY  
 GALVESTON 144 "A-2" PLATFORM  
 X=3,427,102.14'  
 Y= 551,679.48'  
 LAT = 29° 16' 31.806" N  
 LONG. = 94° 31' 20.342" W

LEGEND  
 --- EXISTING  
 --- PROPOSED

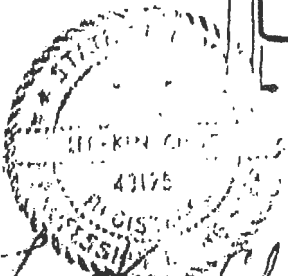
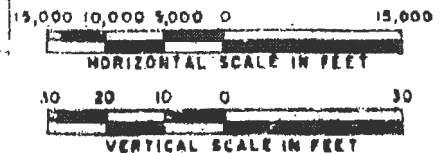
PLAN



OXY GALVESTON  
 "A-2" PLATFORM



PROFILE



	ADJUST DEMARCATION LINE TO PLAN	8-28-80	L.H.
	HEAVY 10" C/L	6-23-80	L.H.

I HEREBY CERTIFY THAT THE DESIGN OF THIS PIPELINE COMPLIES WITH DEPARTMENT OF TRANSPORTATION REGULATION PART 192, TITLE 49, AND THAT THIS MAP ACCURATELY REFLECTS THE CENTERLINE OF THE PROPOSED PIPELINE RIGHT-OF-WAY.

NORTHERN NATURAL GAS COMPANY  
 DIVISION OF INTERNORTH, INC.

GALVESTON AREA BLOCK 144L  
 PROPOSED 10" PIPELINE  
 PLAN & PROFILE

Lee Ken Choo  
 7-10-80 43195  
 DATE NUMBER

DRN BY: S.H. DATE: 6-23-80 DWS NO. PE-2