

May 24, 2019

U. S. Department of the Interior
Bureau of Safety and Environmental Enforcement
1201 Elmwood Park Boulevard
New Orleans, Louisiana 70123-2394

Attention: Angie Gobert
Pipeline Section (GE 1035A)

Regarding: Proposed Pipeline Right-of-Way Modification Application
6" Oil Pipeline – Segment 7067 (ROW G05150)
HI A582, Platform "C" to HI A563, Platform "B"
OCS Federal Waters, Gulf of Mexico, Offshore, Louisiana

Dear Ms. Gobert:

Panther Operating Company, LLC (Panther) respectfully request approval for the modification of the existing Right-of-Way pipeline Segment No. 7067. We hereby propose to change the pipeline from an oil to a bulk oil pipeline.

Pipeline Segment No.7067 is currently active and transports oil between Platform "C" located in High Island Block A582 (Lease OCS-G 02719) to Platform "B" located in High Island Block A563 (Lease OCS-G 02388). The process piping at both receiving and departing platforms will be modified to allow the transport of bulk oil from Platform "C" to Platform "B". The pipeline will maintain the established MAOP of 2160 psig.

The commencement of this project is scheduled to begin mid-June 2019, dependent upon receiving required permit approvals.

In support of our request, the following information is provided:

- Pay.Gov Receipt in the amount of \$4,169
- General Information and Worst-Case Discharge Calculations
- Pipeline Safety Schematic

Should you have any questions or require additional information, please contact Todd Rivera at 346-241-3663 or via email at trivera@americanmidstream.com or the undersigned at 346-241-3406 or via e-mail at rupe@americanmidstream.com.

Sincerely,

Panther Operating Company, LLC



Ryan Rupe
Vice President – Natural Gas Services and Offshore Pipelines

Enclosures



Receipt

Tracking Information

Pay.gov Tracking ID: 26HLVU55

Agency Tracking ID: 75755690418

Form Name: Pipeline ROW Modification Application

Application Name: BSEE Pipeline ROW Modification Application - BY

Payment Information

Payment Type: Debit or credit card

Payment Amount: \$4,169.00

Transaction Date: 05/24/2019 08:26:43 AM EDT

Payment Date: 05/24/2019

Region : Gulf of Mexico

Contact: Todd Rivera 346-241-3663

Company Name/No: Panther Operating Company, LLC, 03198

Pipeline Segment No.: 7067



**RIGHT-OF-WAY PIPELINE CHANGE OF SERVICE
APPLICATION**

Client: Panther Operating Company, LLC	Rev	Date	Issued For	By	Chk'd	App'd	Originated by/date	
	0	5/22/19	Permit	FRO	CPB	FRO	F. Ory	5/22/19
Project No 19MH156							Document No 19MH156-EL5002	
Project PSN 7067 Conversion							Page: 1 of 3	

RIGHT-OF-WAY PIPELINE WORST CASE DISCHARGE

EXISTING

6.625" O.D. BULK OIL PIPELINE, SEGMENT NO. 7067

RIGHT-OF-WAY NO. OCS-G05150

From

**Cox Operating, LLC
HIGH ISLAND BLOCK A582
PLATFORM "C"
OCS-G 02719**

To

**Cox Operating, LLC
HIGH ISLAND BLOCK A563
PLATFORM "B"
OCS-G 02388**

**GULF OF MEXICO
OCS FEDERAL WATERS, OFFSHORE, LOUISIANA**

***Submitted By:*
Panther Operating Company, LLC
MAY 2019**

GENERAL INFORMATION AND CALCULATIONS

The following general information and calculations apply to the existing Pipeline Segment Number 7067 which is to be converted to Bulk Oil service. Anticipated flow rates are as follows:

Gas	3	MMSCFD
Oil/Condensate	800	BOPD
Water	100	BWPD

Maximum Spill Volume Calculations

The following calculation applies to the pipeline once converted to Bulk Oil Service.

Given:

Gas Flow Rate	= 3 MMSCFD
Oil/Condensate Flow Rate	= 800 BOPD
Water Flow Rate	= 100 BWPD
Gas Oil Ratio	= 3,750 scf/bbl
Pipeline Diameter	= 6.625 inches
Pipeline Wall Thickness	= 0.432 inches
Pipeline Length	= 11,389 feet
Water depth (avg.)	= (-) 316 feet
Pipeline Op. Press.	= 1,000 psig

Assumptions:

Pipeline leak detection time	= 15 minutes
Shutdown response time	= 45 seconds

Find:

Worst-case spill volume

Calculations:

Use the MMS Pipeline Oil Spill Volume Estimator, OCS Study MMS 2002-033, Sections 1.3.1 through 1.3.5

1. Volume of Oil Released Prior to Pipeline Shut-In

$$V_{pre-shut} = \frac{Q \cdot t}{1440}$$

Where:

- Q – Pipeline flow rate, bbl/day
- T – Time before shut-in, minutes

$$V_{pre-shut} = \frac{800.15}{1440} = 8.33 \text{ Barrels}$$

2. Pipeline Volume

$$V_{pipe} = \left(\frac{ID}{24}\right)^2 \cdot L_p \cdot \pi$$

Where:

ID – Internal diameter of pipe, in.
= 6.625 - 2(0.432) = 5.761 in.

L_p – Length of pipeline, ft.

$$V_{pipe} = \left(\frac{5.761}{24}\right)^2 \cdot 11389 \cdot \pi = 2062.5 \text{ ft}^3$$

3. Release volume factors based upon relative pressure ratio

$$\Delta P = \frac{P_{pipe}}{P_{amb}}$$

Where:

P_{pipe} – Pipeline pressure, psi

P_{amb} – Pressure at water depth, psi
= 0.446533(d) = 0.446533(316) = 141.10 psi

$$\Delta P = \frac{1000}{141.1} = 7.09$$

Use Table 1.3 Found in MMS Pipeline Oil Spill Estimator to Find:

$$f_{rel} = 0.55$$

$$G_{max} = 505$$

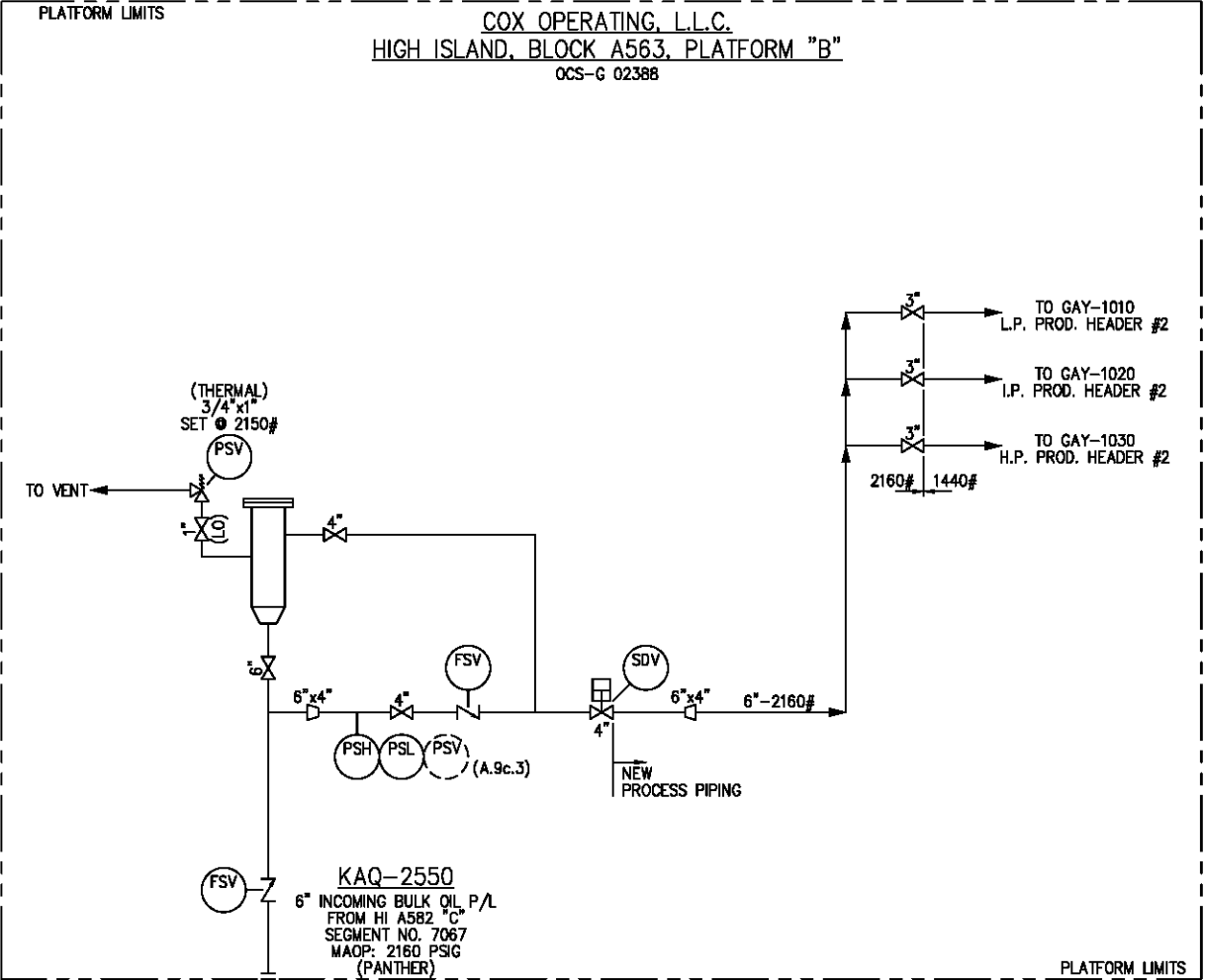
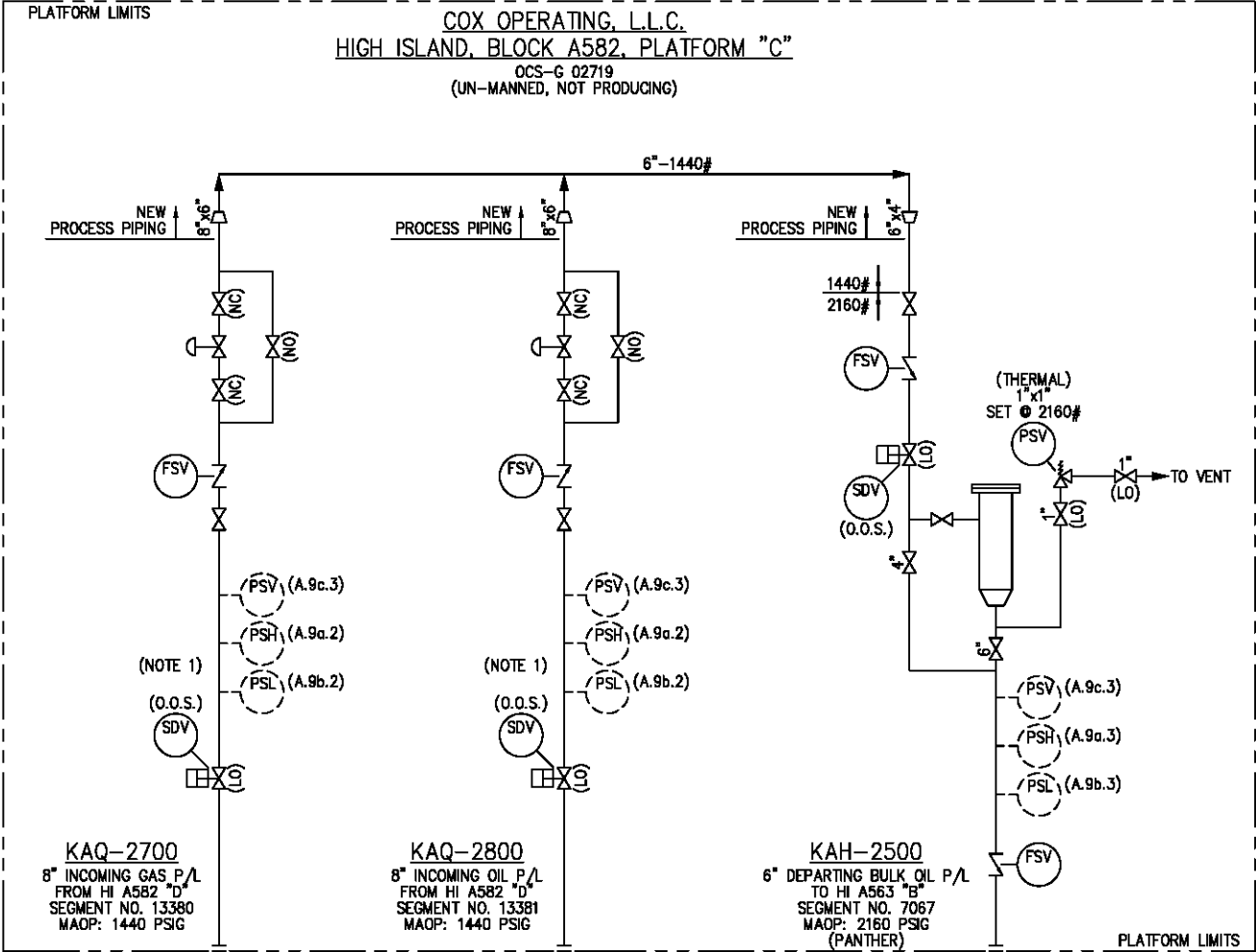
Use Table 1.4 Found in MMS Pipeline Oil Spill Estimator to Find:

$$f_{GOR} = 0.43 \text{ (GOR} > G_{max}\text{)}$$

4. Volume Released

$$V_{rel} = 0.1781 \cdot V_{pipe} \cdot f_{rel} \cdot f_{GOR} + V_{pre-shut}$$

$$V_{rel} = 0.1781 \cdot 2,062.5 \cdot 0.55 \cdot 0.43 + 8.33 = 95.2 \text{ barrels}$$



SEGMENT LENGTH: APROX. 11,389'
6.625" O.D. PIPELINE
SEGMENT NO. 7067
ROW NO. OCS-G-05150
OPERATED BY PANTHER OPERATING COMPANY, LLC

NOTE 1: OVERPRESSURE PROTECTION IS PROVIDED ON HI A582 "D" PLATFORM.

NO	BY	REVISION DESCRIPTION	DATE	CHK	APP
A	MG	ISSUED FOR PERMITTING	05/22/19	CPB	FRO

PANTHER OPERATING COMPANY, LLC		DRG. SCALE: NONE	HIGH ISLAND BLOCK A582 SEGMENT NO. 7067 PIPELINE SAFETY FLOW DIAGRAM 6" BULK OIL PIPELINE FROM HI A582 "C" TO HI A563 "B"
		ORIG. DATE:	
		PLOT SCALE:	
		DRAWN BY:	
		CHECKED BY:	
		APPROVED BY:	
		PLOT DATE:	

DRAWING NUMBER SEG 7067-4300	REV A
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