

# United States Department of the Interior

BUREAU OF SAFETY AND ENVIRONMENTAL ENFORCEMENT
Gulf of Mexico OCS Region
1201 Elmwood Park Boulevard
New Orleans, LA 70123-2394

In Reply Refer To: GE 1035A

May 7, 2018

Mr. John Davis Apache Deepwater, LLC 2000 Post Oak Boulevard, Suite 100 Houston, Texas 77056

Dear Mr. Davis:

Reference is made to Apache Deepwater, LLC's (Apache) Right-of-way (ROW) decommissioning application dated April 12, 2018, and received by this office on April 13, 2018, for Pipeline Segment Number (PSN) 12621 and 12622, ROW No. OCS-G21894.

Specifically, Apache requests to decommission PSN 12621 and 12622 in-place. Additionally, Apache requests to relinquish the pipeline ROW OCS-G21894. PSN 12621 and 12622 has been out-of-service since April 12, 2018 and will be flushed and filled during decommissioning.

The table below describes the Pipeline Segment pertaining to the aforementioned application:

PSN	Size (NPS)	Length (feet)	Service	Origin	Termination
12621	10	16,228	Bulk Oil	Subsea Well No. 1 Ewing Bank Block 966	Platform A Ewing Bank Block 921
12622	5	16,468	Umbilical	Platform A Ewing Bank Block 921	Subsea Well No. 1 Ewing Bank Block 966

Pursuant to 30 CFR 250.1751, your request to decommission PSN 12621 and 12622 in-place is hereby approved. As a reminder, pursuant to 30 CFR 250.1754, if at any time the Regional Supervisor determines that the pipeline decommissioned in-place is an obstruction, it must be removed.

Pursuant to 30 CFR 250.1000(b), your request to relinquish the ROW No. OCS-G21894 is hereby approved with an effective date of April 13, 2018.

As a reminder, pursuant to 30 CFR 250.1753, you must submit a report to this office within 30 days after the completion of the pipeline decommissioning project.

Sincerely,

(for) Bryan A. Domangue

Acting Regional Supervisor Regional Field Operations



April 12, 2018

Regional Supervisor Pipelines Section Bureau of Safety and Environmental Enforcement (BSEE) 1201 Elmwood Park Blvd. New Orleans, Louisiana 70123-2394 FedEx: 7719862477890000 of Salety and Environmental Enforcement (BSEE RECEIVED

APR 13 2018

Office of Field Operations
Pipeline Section

Attention: Ms. Angie Gobert

Re: Proposed Abandonment of Right-of-Way Pipeline & Umbilical installed in and/or through Blocks 966, 965, and 921, Ewing Bank Area, OCS Federal Waters, Gulf of Mexico,

Offshore Louisiana (Black Widow Project)

**ROW OCS-G-21894** 

Bulk Oil Pipeline - Segment Number 12621

**Umbilical - Segment Number 12622** 

Pursuant to the authority granted in 43 U.S.C. 1334 (e) and the regulations under Title 30 CFR, Part 250, Subpart J, Apache Deepwater LLC (Apache Deepwater) received approval March 20, 2001 for a 200-foot wide right-of-way number OCS-G 21893 to operate and maintain the afore mentioned pipelines and umbilical from ENI's Platform-A in Ewing Bank Area, Block 921 through Blocks 965 and 966, all in Ewing Banks Area, to Subsea Well No. 001 in Block 966.

#### Ms. Gobert:

Apache Deepwater LLC (Apache), hereby requests your review and approval of the proposed abandonment of the following pipelines:

Segment Number	ROW	Origin	Terminus	OD (inch)	Length (ft)	Product	Operator
12621	G21894	EW 996	EW 921	10.75"	16,228	BLKO	Apache Deepwater LLC
12622	G21894	EW 921	EW 996	5.08"	16,468	UBEH	Apache Deepwater LLC

Apache is proposing to flush and abandon the above mentioned Right-of-Way Pipeline & Umbilical associated with the Black Widow development in the Ewing Banks area of the Gulf of Mexico.

The pipeline (Segment No. 12621), inclusive of a main flowline segment, and riser transports bulk oil from the subsea tree in Ewing Banks Block 996 in a north westerly direction and travels approximately 16,228 feet (2.98 miles) to the Eni US Operating Co. Inc.-operated Morpeth spar platform located in this Ewing Banks 921.

The umbilical (Segment No. 12622) is comprised of 20 Benso P40 TLO thermal plastic tubes for hydraulic and chemical supply and 5 cable pares for power and communication. The dynamic portion of the umbilical departs the Morpeth spar in a south easterly direction through an I-tube and continues to the Field Umbilical Termination Assembly (FUTA) in Ewing Banks block 996.

Abandonment Procedures to Decommission Right-of-Way G-21894 Segment Numbers 12621 & 12622 Page 2 of 4

The flowline will be flushed in conjunction with the ROW flowline G21893, Segment No. 12620, which is connected to the subsea tree in EW 996. This flowline will also be utilized for round trip pigging operation from the Morpeth TLP. All fluids recovered from the pigging and flushing operations will be processed through the existing facilities. Upon completion of flushing and pigging operations the flowline will be filled with seawater, removed from the Morpeth TLP, have a plumbers plug inserted into the platform and well ends of the flowline. The flowline will be abandoned on the sea floor within the permitted ROW corridor with concrete mattresses covering each end of the flowline.

The umbilical will have a flushing plate installed at the subsea end and will be flushed from the Morpeth spar at 1.5 times the volume of each umbilical tube. All hydrocarbons will be captured for proper disposal any water will be processed and static sheen tests will be performed prior to being discharged overboard.

In support of this application, please find the following attached:

- Proposed Pipeline Abandonment Procedure
- Subsea Layout Diagram
- PayGov receipt in the amount of \$2,170 to cover the processing fee for the Application to Decommission the Right-of-Way Pipeline OCS-G21894.

Please direct any questions concerning this application to Steve Daigle at (713) 296-7455 or via email at steve.daigle@apachecorp.com.

Sincerely,

John L. Davis Attorney in Fact

Apache Deepwater LLC

Abandonment Procedures to Decommission Right-of-Way G-21894 Segment Numbers 12621 & 12622 Page 3 of 4

### EW 996 (Black Widow) Project Flowlines and Umbilical Abandonment Procedure

This procedure will outline the steps that Apache Corporation will take to abandon the flowlines and umbilical connecting the subsea well in EW 996 with the Morpeth TLP in EW 921.

### Flushing Procedure Flowlines Platform End (SN 12620 and SN 12621)

- 1. Mobilize Dive Support Vessel (DSV) and filtration equipment to the field.
- 2. Set up filtration crew at ENI US Operating Co. Inc.- operated Morpeth TLP located in Ewing Banks 921
- 3. While the filtration crew is rigging up DSV to transit to well location EW 996
  - Disconnect the umbilical flying lead from the subsea tree and UTA and recover to surface
  - Install an umbilical flushing plate on the UTA (Flushing plate will connect the AMON line to all the other lines)
- 4. The filtration crew at the Morpeth TLP will isolate and rig up to inject through ROW pipeline G21893 SN 12620 and receive returns through ROW pipeline G21894 SN 12621 (Both Segments connect through pigging loop on the EW 996 subsea tree).
- Once circulation is established the filtration crew will shut in, and install a foam pig in SN 12620. Once the pig is installed the filtration crew will return to pumping with filtered seawater.
  - All hydrocarbons will be captured
  - All water will be processed through filtration and over boarded, a static sheen test will be performed and passed before water is over boarded
- 6. Once the pig is recovered from SN 12621 and the pipelines have been flushed, pressure will be bled down to 0.0 psig. Blind flanges, with bleed plugs, will be installed to production piping end of each pipeline.

# Flushing Procedure Umbilical Platform END (SN 12622)

- 1. Once the flowlines are flushed the filtration crew will rig up to inject into the AMON line of the umbilical.
- Filtration crew will inject filtered seawater into the AMON line taking returns through each individual line until 1.5 times the volume of each line is recovered and the fluid passes a static sheen test.
  - All hydrocarbons will be captured
  - All seawater will be processed through filtration and, a static sheen test will be performed and passed before water is over boarded

#### Abandonment Procedure Platform END (SN 12620, SN 12621, and SN 12622)

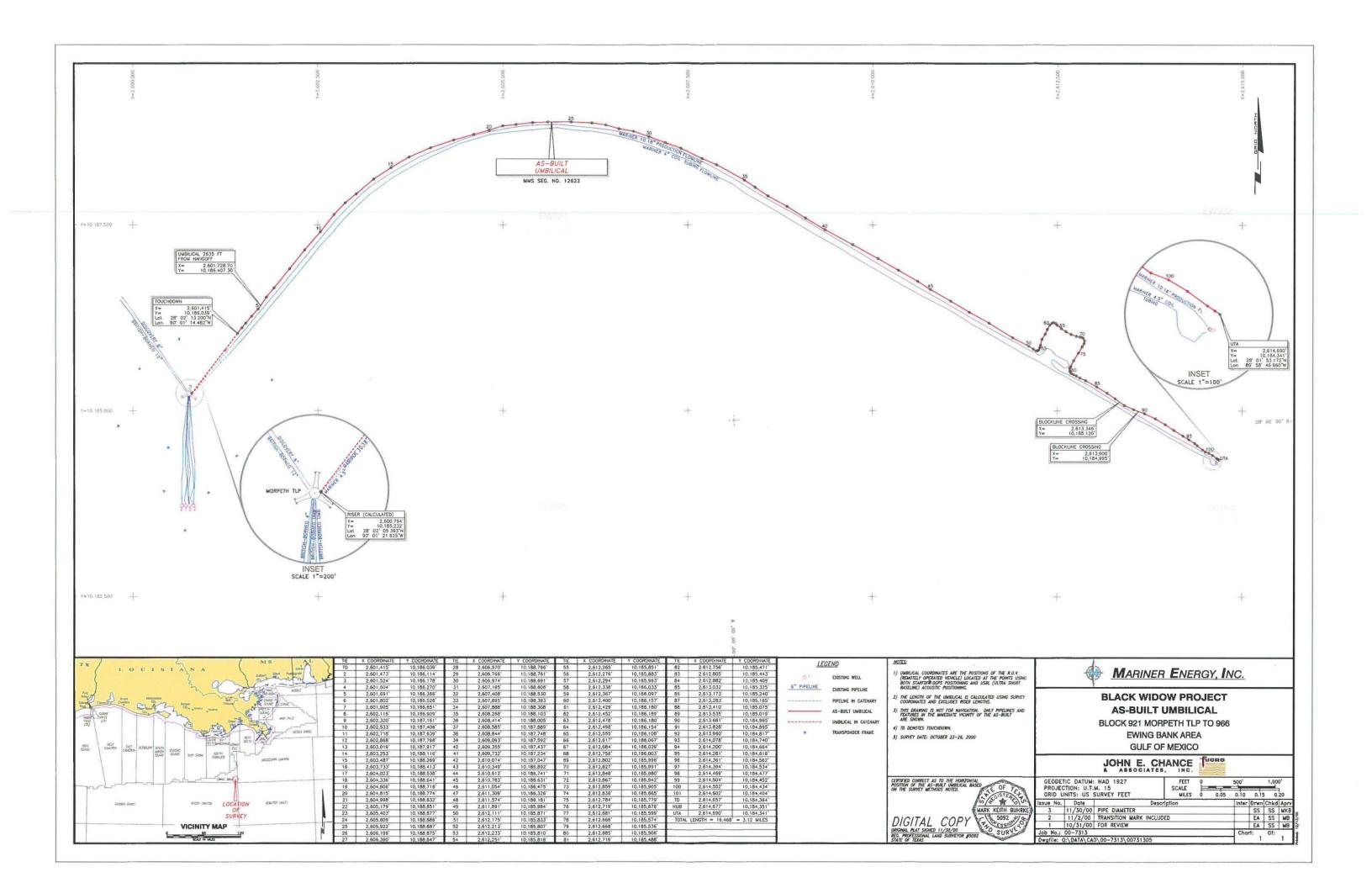
- 1. Mobilize Winch and crew to Morpeth TLP
  - Install pull heads on both flowlines and the umbilical
- 2. Mobilize DSV to the Morpeth TLP
- 3. Locate the riser sections of SN 12620, SN 12621, and SN 12622
- 4. Utilizing the winch pick up on each individual flowline and remove the split-flange.
- 5. Lower the riser through the I-Tube.
- 6. Once clear of the I-tube transfer the pull head to the A/R winch on the DSV
- 7. The flowline will be laid on the sea floor within the permitted ROW corridor.

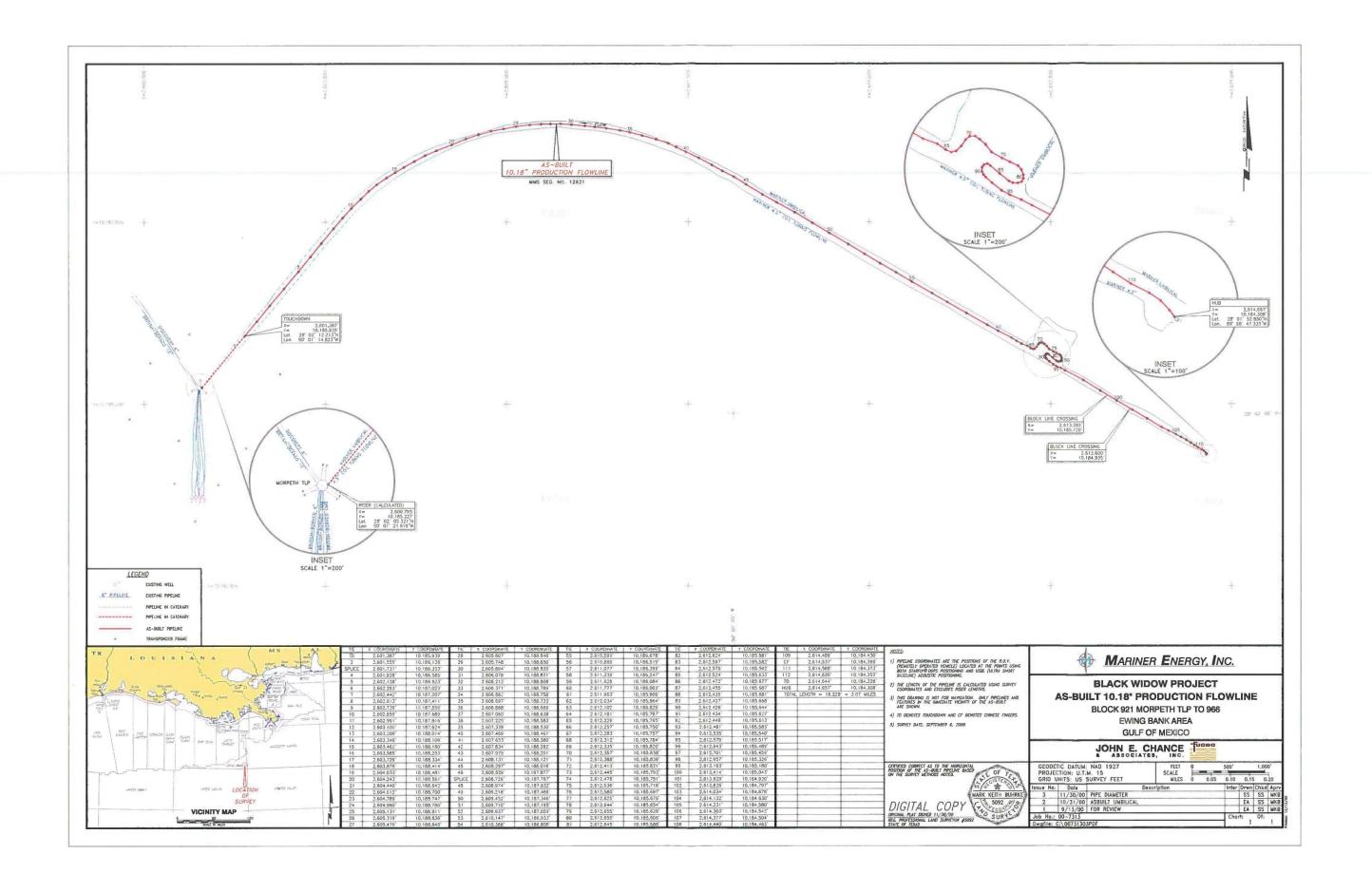
Abandonment Procedures to Decommission Right-of-Way G-21894 Segment Numbers 12621 & 12622 Page 4 of 4

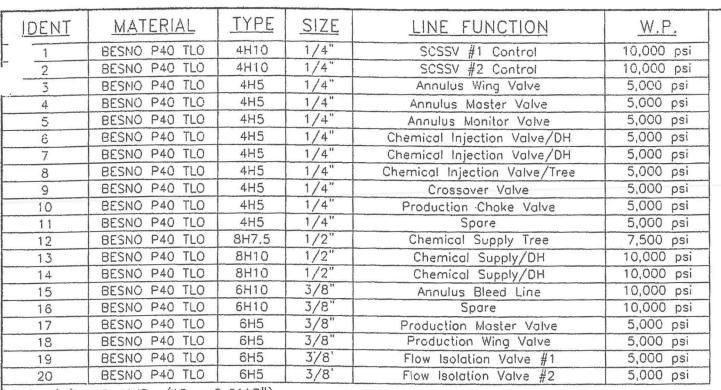
- 8. Repeat for the other flowline and umbilical
- 9. The plugged ends of the flowlines and umbilical will be covered with flexible concrete mats, and an as-left survey of the location will be conducted

### Abandonment Procedure Subsea Tree End

- Mobilize DSV to EW 996 Subsea Tree end of the flowlines and umbilicals and rig up IWOCS.
- 2. Using IWOCS DSV will ensure all valves on the subsea tree are closed and the well is isolated from the flowline.
- 3. Once isolation is verified the ROV will:
  - Disconnect and recover the electrical flying leads,
  - Cut SN 12620 gooseneck above Cameron CVC connector
  - Install plumbers plug in cut end of the flowline and place on the sea floor within the Permitted ROW corridor.
  - Cut SN 12621 gooseneck above Cameron CVC connector
  - Install plumbers plug in cut end of the flowline and place on the sea floor within the Permitted ROW corridor.
  - Cut the umbilical SN 12622 at its connection to the UTA and recover the UTA
  - Install a cap on the end of the umbilical and place it on the sea floor within the Permitted ROW corridor.
  - Cover SN 12620, SN 12621 and SN 12622 with flexible concrete mats
  - · Complete an as-left survey of the area.
- 4. Note: Subsea Wellhead and casing stubs will be cleared and site survey will be performed as part of the permanent well abandonment program.
- 5. Demobilize DSV.







DUAL PASS EPC

LDPE BELT TO

INSULATION

Ø0.282"

(2) #16 AWG (19 x 0.0113") BARE COPPER WIRE

(6) #30 AWG COPPER DRAIN WIRE

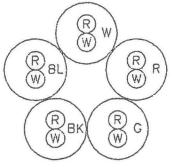
COPPER MYLAR TAPE -

LDPE JACKET #16 AWG TSJP DETAIL

ELECTRICAL	BUNDLE DATA	·
COMPONENT	NOM. O.D.	M.B.R.
INSULATED COND.	0.111" ± 0.002	2.0"
TSJP	0.370" ± 0.007	5.6"
ELECTRICAL BUNDLE	1.200" ± 0.010	18.0"

# UMBILICAL PERFORMANCE SUMMARY

NOMINAL O.D. 5.08 in 17.3 lbf/ft WEIGHT IN AIR (HOSES FILLED, INTERSTICES DRY) WEIGHT IN WATER 9.6 lbf/ft (HOSES FILLED, INTERSTICES FLOODED) \*\*INIMUM BEND RADIUS (STORAGE) 46" NIMUM BEND RADIUS (OPERATING) 61" ROX. BREAK STRENGTH 109 tons MAX WORKING LOAD 27 tons ESTIMATED BEND STIFFNESS  $9,880 \text{ newton-m}^2$ ESTIMATED AXIAL STIFFNESS . .



ELECTRICAL COLOR CODE

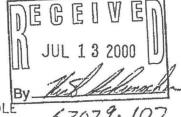
> W - WHITE R - RED

G - GREEN

BK - BLACK BL - BLUE

50,000,000 newton

ELECTRICAL BUNDLE DETAIL



(1) NON-METALLIC FILLER

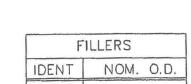
POLYETHYLENE JACKET 0.085" NOMINAL THICKNESS

(.5) #16 AWG TSJP (SEE DETAIL)

(SEE DETAIL)

COCEANEERING - MULTIFLEX
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AUTHORIZATION OF OCEANEERING MULTIFLEX, THIS DOCUMENT AND THE
COPYRIGHT THEREOF IS THE PROPERTY OF OCEANEERING MULTIFLEX.

(1) ELECTRICAL BUNDLE



Ø0.605"

Ø0.862'

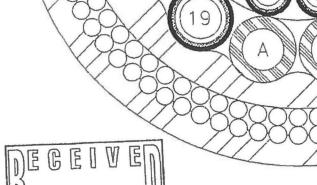
POLYETHYLENE INNER SHEATH 0.150" NOMINAL THICKNESS

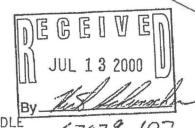
72/78 NOMINAL ARMOR PACKAGE Ø0.162" GALVANIZED STEEL WIRE

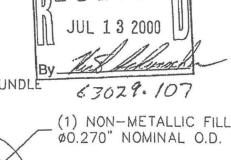
POLYETHYLENE OUTER SHEATH (BLACK) 0,200" NOMINAL THICKNESS

CONTROLLED COPY

D	-	-		•••			
С	000077	ММ	28JUN00	REPLACED (2) 8H7.5 WITH 8H10			
В	000017	DA	07FEB00	REMOVE OUTSIDE FILLERS FROM ELECT. CORE			
REV	ECN No	BY	DATE	DESCRIPTION			
DO NOT SCALE DRAWING CUSTOMER/PROJECT: MARINER / BLACK WIDOW				OCEANEERING-MULTIFLEX MAGNOLIA, TEXAS			
			T	TITLE: UMBILICAL CROSS SECTION			
DRAWN BY: M.MENASCO 27JUNOO		27JUN00					
CHECKE	CAY: A	1	1 1 1	CONTRACT: ICLASS: DRAWING NO: SHEET: REV.			

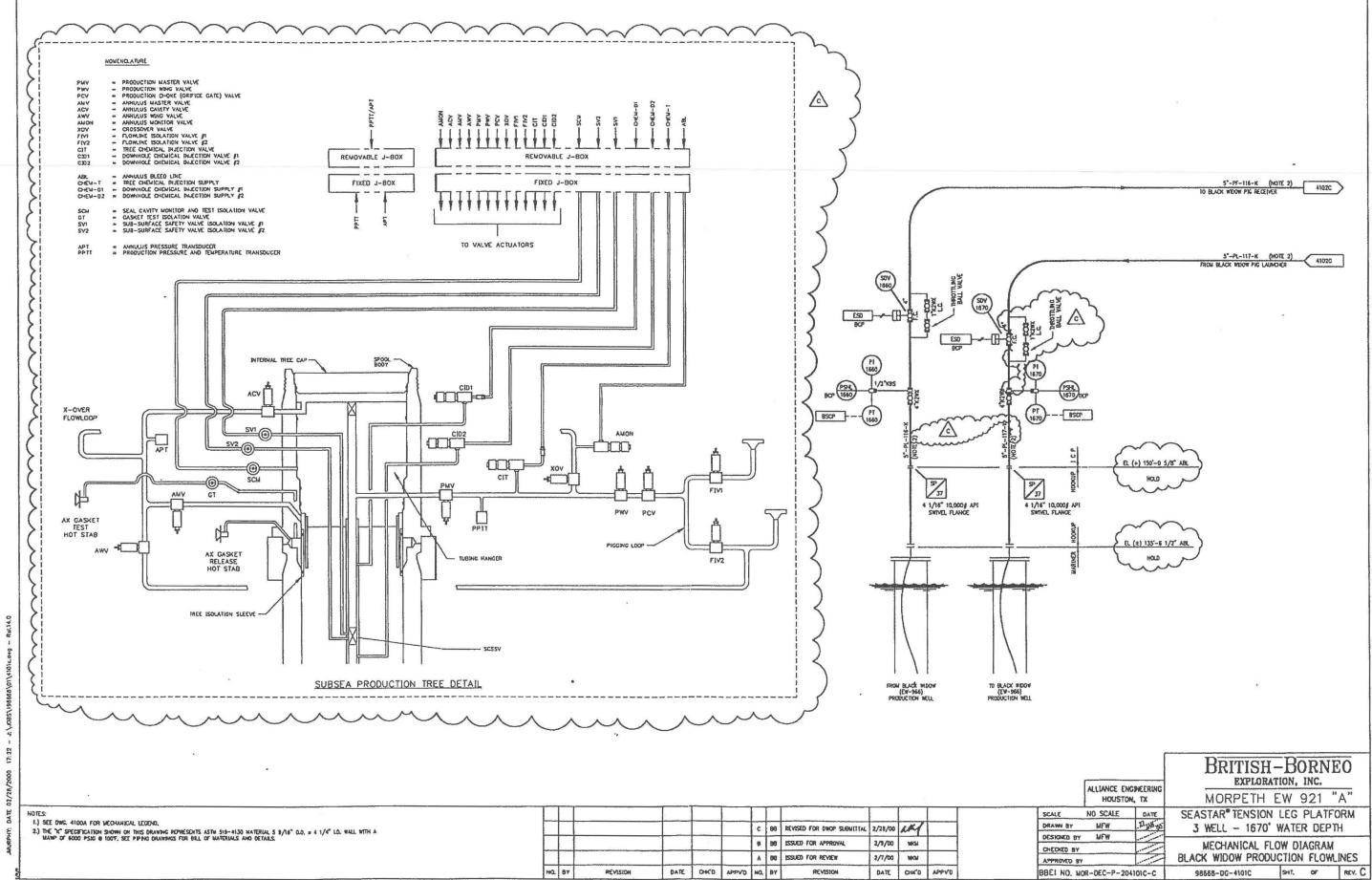






000 10/07/60 18651 C

cc. Tim Dewis Kirk Schumscher





# Receipt

# Your payment is complete

Pay.gov Tracking ID: 2690IJ7U Agency Tracking ID: 75464644433

Form Name: Application to Relinquish a ROW and Decommission Pipeline

Application Name: BSEE Application to Relinquish a ROW and Decommission Pipeline - BU/RR

## **Payment Information**

Payment Type: Debit or credit card Payment Amount: \$2,170.00

Transaction Date: 04/12/2018 04:54:56 PM EDT

Payment Date: 04/12/2018 Region: Gulf of Mexico Contact Name: Steve Daigle Contact Phone: 713-296-7455

Email Address: steve.daigle@apachecorp.com

ROW Holder or Applicant Name: Apache Deepwater LLC

Company Number: 3165 Right of Way Number: G21894 Purpose: Decommission a Pipeline

### **Account Information**

Cardholder Name: Apache Deepwater LLC

Card Type: Visa

Card Number: \*\*\*\*\*\*\*\*2108

# **Email Confirmation Receipt**

Confirmation Receipts have been emailed to:

steve.daigle@apachecorp.com

```
Pipeline Decommissioning Report
      Segment number: 12621
      Right_of_Way Number: G21894
      Application Date: 2018-04-12
      Operator: Apache Deepwater LLC
      Operator Code: 03165
     Review User: PELOUSS
     Review Run Date: 2018-May-07 15:07:34
*****
---- The Pipeline Crosses The Following Block(s) -----
                        EW921
                        EW965
                        EW966
(1) Blocks and Leases
Area Lease No. Status Operator

EW921 G12142 UNIT Eni US Operating Co. Inc.

EW965 G12145 UNIT Eni US Operating Co. Inc.

EW966 G18184 PROD Chevron U.S.A. Inc.
(2.1) --- Crossed Pipelines ---
Seg.No. Row No. Area Product Status H2S Operator-Lease/ROW Holder-ROW
15587 G26969 EW921~EW921 BLKO ACT N Eni Petroleum US LLC
15588 G26969 EW921~EW921 UMBE
                                         ACT N Eni Petroleum US LLC
(2.2) --- Nearby Pipelines ---
Seg.No. Row No. Area Product Status H2S Operator-Lease/ROW Holder-ROW
12620 G21893 EW966~EW921 LIFT ACT N Apache Deepwater LLC
12622 G21894 EW921~EW966 UMB
                                         ACT N Apache Deepwater LLC
(2.3) --- Crossed Proposed Pipelines ---
Seg.No. Row No. Area Product Status H2S Operator-Lease/ROW Holder-ROW

        12622
        G21894
        EW921~EW966
        UMB
        ACT
        N
        Apache Deepwater LLC

        15587
        G26969
        EW921~EW921
        BLKO
        ACT
        N
        Eni Petroleum US LLC

15588 G26969 EW921~EW921 UMBE
                                         ACT N Eni Petroleum US LLC
(2.4) --- Nearby Proposed Pipelines ---
Seg.No. Row No. Area Product Status H2S Operator-Lease/ROW Holder-ROW
12620 G21893 EW966~EW921 LIFT ACT N Apache Deepwater LLC
(3) Federal/State Boundary
  NO
(4) Construction Zone Of Artificial Reef Site
(5) Anchorage Area
  NO
```

(6) Fairway
NO

(7) MMS District
New Orleans

(8) U.S. Coast Guard
Morgan City Cotp Zone

(9) H2S Block
NO

(10) 400 Meter Water Depth
The Proposed pipeline crosses water depth greater than 400 meter area

(11) Intersection of Marine Mineral Blocks and Pipeline Route

NO Marine Mineral Blocks Impacted

```
Pipeline Decommissioning Report
      Segment number: 12622
      Right_of_Way Number: G21894
      Application Date: 2018-04-12
      Operator: Apache Deepwater LLC
      Operator Code: 03165
     Review User: PELOUSS
     Review Run Date: 2018-May-07 15:08:43
*****
---- The Pipeline Crosses The Following Block(s) -----
                        EW921
                        EW965
                         EW966
(1) Blocks and Leases
Area Lease No. Status Operator

EW921 G12142 UNIT Eni US Operating Co. Inc.

EW965 G12145 UNIT Eni US Operating Co. Inc.

EW966 G18184 PROD Chevron U.S.A. Inc.
(2.1) --- Crossed Pipelines ---
Seg.No. Row No. Area Product Status H2S Operator-Lease/ROW Holder-ROW
15587 G26969 EW921~EW921 BLKO ACT N Eni Petroleum US LLC
15588 G26969 EW921~EW921 UMBE
                                         ACT N Eni Petroleum US LLC
(2.2) --- Nearby Pipelines ---
Seg.No. Row No. Area Product Status H2S Operator-Lease/ROW Holder-ROW
12620 G21893 EW966~EW921 LIFT ACT N Apache Deepwater LLC
12621 G21894 EW966~EW921 BLKO ACT N Apache Deepwater LLC
(2.3) --- Crossed Proposed Pipelines ---
Seg.No. Row No. Area Product Status H2S Operator-Lease/ROW Holder-ROW
15587 G26969 EW921~EW921 BLKO ACT N Eni Petroleum US LLC
15588 G26969 EW921~EW921 UMBE
                                         ACT N Eni Petroleum US LLC
(2.4) --- Nearby Proposed Pipelines ---
Seg.No. Row No. Area Product Status H2S Operator-Lease/ROW Holder-ROW

        12620
        G21893
        EW966~EW921
        LIFT
        ACT
        N
        Apache Deepwater
        LLC

        12621
        G21894
        EW966~EW921
        BLKO
        ACT
        N
        Apache Deepwater
        LLC

(3) Federal/State Boundary
  NO
(4) Construction Zone Of Artificial Reef Site
(5) Anchorage Area
```

ИО

(6) Fairway
NO

(7) MMS District
New Orleans

(8) U.S. Coast Guard
Morgan City Cotp Zone

(9) H2S Block
NO

(10) 400 Meter Water Depth
The Proposed pipeline crosses water depth greater than 400 meter area

(11) Intersection of Marine Mineral Blocks and Pipeline Route

NO Marine Mineral Blocks Impacted