

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF SAFETY AND ENVIRONMENTAL ENFORCEMENT
GULF OF MEXICO REGION

ACCIDENT INVESTIGATION REPORT

For Public Release

1. OCCURRED

DATE: **05-JAN-2023** TIME: **1730** HOURS

2. OPERATOR: **Arena Offshore, LP**

REPRESENTATIVE:

TELEPHONE:

CONTRACTOR:

REPRESENTATIVE:

TELEPHONE:

- STRUCTURAL DAMAGE
- CRANE
- OTHER LIFTING
- DAMAGED/DISABLED SAFETY SYS.
- INCIDENT >\$25K
- H2S/15MIN./20PPM
- REQUIRED MUSTER
- SHUTDOWN FROM GAS RELEASE
- OTHER

3. OPERATOR/CONTRACTOR REPRESENTATIVE/SUPERVISOR ON SITE AT TIME OF INCIDENT: 8. OPERATION:

4. LEASE: **G02705**

AREA: **HI** LATITUDE:

BLOCK: **A 547** LONGITUDE:

5. PLATFORM: **B**

RIG NAME:

- PRODUCTION
- DRILLING
- WORKOVER
- COMPLETION
- HELICOPTER
- MOTOR VESSEL
- PIPELINE SEGMENT NO.
- OTHER

6. ACTIVITY: EXPLORATION(POE)
 DEVELOPMENT/PRODUCTION (DOCD/POD)

7. TYPE:

INJURIES:

HISTORIC INJURY

OPERATOR CONTRACTOR

REQUIRED EVACUATION

LTA (1-3 days)

LTA (>3 days)

RW/JT (1-3 days)

RW/JT (>3 days)

FATALITY

Other Injury

9. CAUSE:

- EQUIPMENT FAILURE
- HUMAN ERROR
- EXTERNAL DAMAGE
- SLIP/TRIP/FALL
- WEATHER RELATED
- LEAK
- UPSET H2O TREATING
- OVERBOARD DRILLING FLUID
- OTHER _____

POLLUTION

FIRE

EXPLOSION

LWC HISTORIC BLOWOUT

UNDERGROUND

SURFACE

DEVERTER

SURFACE EQUIPMENT FAILURE OR PROCEDURES

10. WATER DEPTH: **268** FT.

11. DISTANCE FROM SHORE:

12. WIND DIRECTION:

COLLISION

17. INVESTIGATION FINDINGS:

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On January 5, 2023, at 1730 hours, Arena Offshore LP (Arena) reported a fire occurred at High Island (HIA) 547 B, lease G-02705, involving the facilities' Glycol Reboiler Dehydration system. There were no injuries or pollution reported with this incident.

On January 6, 2023, the Bureau of Safety and Environmental Enforcement (BSEE) Lake Jackson District Investigator and Inspector conducted an onsite investigation at HI 547 B. They collected statements, maintenance records, safety device testing records, and photos were taken of the incident scene. Witnesses reported, while working on deck, hearing a gas igniting loud noise and found the Glycol Dehydration unit on fire. An Arena operator activated the platform emergency shut down device, and two Arena operators began extinguishing the fire with two 150 pound and two 30-pound fire extinguishers with assistance from a third. The fire was extinguished in ten minutes.

Following the BSEE onsite investigation, Arena removed the Glycol Reboiler Dehydration unit from the facility and transported it to Universal Equipment Company Inc. in Lafayette, Louisiana for a complete inspection and analysis. The focus of the inspection was to determine the root cause and develop a corrective action plan.

The BSEE Lafayette District Accident Investigator and a contractor from GIR Solutions, Arena's third-party consultant, conducted an onsite investigation at Universal Equipment Company in Lafayette. Investigation revealed the still column vent pipe became plugged, resulting in pressure build up in the column vent pipe until it ruptured. The rupture caused glycol to spray which contacted the reboiler and exhaust stack. Both have an operating temperature of 750 to 800 degrees Fahrenheit which ignited the glycol mixture. The fire damage was limited to the Glycol Reboiler and Dehydration unit and totaled over \$100,000.00 in damage. Arena will implement a still column replacement campaign to coincide with the 5-year fire tube inspection requirement and perform a condition assessment of all still columns across the gulf by the end of 1st quarter FY 23.

18. LIST THE PROBABLE CAUSE(S) OF ACCIDENT:

Build up and clogging of the Still Column Vent pipe.

19. LIST THE CONTRIBUTING CAUSE(S) OF ACCIDENT:

None

20. LIST THE ADDITIONAL INFORMATION:

None

21. PROPERTY DAMAGED:

NATURE OF DAMAGE:

Glycol Dehydration Unit damage.

Gylcol Dehydration Unit will need to be rebuilt, due to fire damage.

ESTIMATED AMOUNT (TOTAL): \$100,000

22. RECOMMENDATIONS TO PREVENT RECURRANCE NARRATIVE:

Develop a servicing plan to inspect the Still Column Vent piping.

23. POSSIBLE OCS VIOLATIONS RELATED TO ACCIDENT: NO

24. SPECIFY VIOLATIONS DIRECTLY OR INDIRECTLY CONTRIBUTING. NARRATIVE:

None

25. DATE OF ONSITE INVESTIGATION:

28. ACCIDENT CLASSIFICATION:

06-JAN-2023

26. Investigation Team Members/Panel Members:

George Timoh / Wade Guillotte / Alvin
O'Brien / Perry Brady /

27. OPERATOR REPORT ON FILE:

29. ACCIDENT SUPERVISOR INVESTIGATION PANEL FORMED:

Stephen Martinez

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OCS REPORT:

APPROVED

DATE:

22-FEB-2023