

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: 11-OCT-2017 TIME: 0015 HOURS

2. OPERATOR: Energy XXI GOM, LLC

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: G01362

AREA: ST LATITUDE:  
BLOCK: 28 LONGITUDE:

5. PLATFORM: PRD  
RIG NAME:

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

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

7. TYPE:

- HISTORIC INJURY
  - REQUIRED EVACUATION
  - LTA (1-3 days)
  - LTA (>3 days)
  - RW/JT (1-3 days)
  - RW/JT (>3 days)
  - Other Injury

- FATALITY
- POLLUTION
- FIRE
- EXPLOSION

- LWC  HISTORIC BLOWOUT
- UNDERGROUND
  - SURFACE
  - DEVERTER
  - SURFACE EQUIPMENT FAILURE OR PROCEDURES

COLLISION  HISTORIC  >\$25K  <=\$25K

9. CAUSE:

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

- 10. WATER DEPTH: 49 FT.
- 11. DISTANCE FROM SHORE: 6 MI.
- 12. WIND DIRECTION:  
SPEED: M.P.H.
- 13. CURRENT DIRECTION:  
SPEED: M.P.H.
- 14. SEA STATE: FT.
- 15. PICTURES TAKEN:
- 16. STATEMENT TAKEN:

17. INVESTIGATION FINDINGS:

**For Public Release**

On October 11, 2017, an incident occurred on the South Timbalier 28 PRD Platform (Lease OCS G01362). Energy XXI GOM, LLC is the Designated Operator of Records. The platform is situated six nautical miles from shore in approximately fifty feet of water.

While responding to a process shut-in alarm around midnight, the operators noticed a small fire on top of the Gas Compressor No. 1. The fire had melted a fusible plug in the platform fire loop system, initiating a process shut-in which alerted the operating personnel. The fire was extinguished immediately, the compressor was secured, and the Field Foreman was notified.

After an onsite investigation, Houma District inspectors believe that the most likely cause of the fire was a failure/rupture in the third stage cooler tube that resulted in a gas release, with static charge being the probable ignition source.

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

The most likely cause of the fire was a failure/rupture of the third stage cooler tube that resulted in gas release, with static charge being the probable ignition source.

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

The normal operating pressure inside of the third stage cooler tube is approximately 1285 pounds per square inch (psi). This high pressure combined with the age (sixteen years) of the cooler tube is likely to have produced metal fatigue, which in turn may have caused the rupture.

20. LIST THE ADDITIONAL INFORMATION:

The rental gas compressor was manufactured in 1979. The cooler tubes were replaced in 2001.

Since this compressor unit was a rental, no costs were incurred by Operator as a result of this incident. The compressor engine and cooler assembly were replaced after the fire.

21. PROPERTY DAMAGED:

NATURE OF DAMAGE:

Third stage cooler tube fusible plug

Ruptured, melted

ESTIMATED AMOUNT (TOTAL):

22. RECOMMENDATIONS TO PREVENT RECURRANCE NARRATIVE:

The Houma District has no recommendation for the Regional Office.

23. POSSIBLE OCS VIOLATIONS RELATED TO ACCIDENT: NO

24. SPECIFY VIOLATIONS DIRECTLY OR INDIRECTLY CONTRIBUTING. NARRATIVE:

None

25. DATE OF ONSITE INVESTIGATION:

11-OCT-2017

28. ACCIDENT INVESTIGATION

PANEL FORMED: NO

OCS REPORT:

26. INVESTIGATION TEAM MEMBERS:

Lee Oliver / Jason Manuel / Keith  
Barrios /

30. DISTRICT SUPERVISOR:

Bryan Domangue

***For Public Release***

APPROVED

DATE:

26-JAN-2018