

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: 22-MAR-2018 TIME: 1230 HOURS

2. OPERATOR: PetroQuest Energy, L.L.C.

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: 00060

AREA: SS LATITUDE:
BLOCK: 72 LONGITUDE:

5. PLATFORM: J
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: 20 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:

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On March 22, 2018, an incident occurred on the Ship Shoal 72 J platform, Outer Continental Shelf Lease Number 00060. The Designated Operator of Record is PetroQuest Energy, LLC.

While making routine rounds at the facility, operators discovered a fire in the Heater Treater skid underneath the flame arrestor. One operator obtained a thirty pound carbon dioxide fire extinguisher and put out the fire, while the remaining two operators activated the fire suppression system and shut off the fuel gas supply to the Heater Treater. No injuries to personnel or major damages were reported.

Following the incident, the Heater Treater fire tube was pulled and inspected. Corrosion was apparent on the fire tube welds.

During this investigation, the BSEE Houma District Accident Investigator found four caustic chemicals used to treat the production system at various points via batch-treating or injection: Scaletreat SD 8580 with a pH less than 2, Biotreat 4663 with a pH anywhere between 2.5 and 4.5, Phasetreat 220 with a pH less than one, and Scaletreat 194 with a pH around 4 or 5. Based on investigation findings, the Houma District believes that the low pH contents of these chemicals caused deterioration (corrosion/pitting) of the welds in the fire tube. Once holes developed in the welds, combustible liquids were allowed to enter the fire tube, causing ignition. Therefore, the fire was likely caused by an ignition of hydrocarbons in the fluid interface of the Heater Treater.

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

The probable cause of this incident was the ignition of hydrocarbons in the fluid interface of the Heater Treater's water chamber.

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

The contributing cause is weld degradation. Certain chemicals introduced into the production process are extremely caustic and, over time, will attack the welds on a fire tube.

20. LIST THE ADDITIONAL INFORMATION:

21. PROPERTY DAMAGED:

NATURE OF DAMAGE:

- | | |
|---------------------------|-------------------------------|
| 1.Fire Tube | 1. Fire damage |
| 2.Stack Arrestor | 2. Fire damage |
| 3.Rosebud and Kimray | 3. Not damaged. Just replaced |
| ESTIMATED AMOUNT (TOTAL): | \$16,142 |

22. RECOMMENDATIONS TO PREVENT RECURRANCE NARRATIVE:

The Houma District Office has no recommendation for the Regional Office.

23. POSSIBLE OCS VIOLATIONS RELATED TO ACCIDENT: NO

24. SPECIFY VIOLATIONS DIRECTLY OR INDIRECTLY CONTRIBUTING. NARRATIVE:

N/A

25. DATE OF ONSITE INVESTIGATION:

22-MAR-2018

26. INVESTIGATION TEAM MEMBERS:

**David Benoit / Jason Manuel / Lance
Belanger /**

29. ACCIDENT INVESTIGATION
PANEL FORMED: **NO**

30. DISTRICT SUPERVISOR:
OCS REPORT:
Bryan Domangue

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APPROVED

DATE: **24-MAY-2018**