

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

ACCIDENT INVESTIGATION REPORT

1. OCCURRED

DATE: 01-JUL-2019 TIME: 1400 HOURS

2. OPERATOR: Renaissance Offshore, LLC

REPRESENTATIVE:
TELEPHONE:

CONTRACTOR: Ensco Offshore Co.

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: G02274

AREA: VR
BLOCK: 369

5. PLATFORM:

RIG NAME: VALARIS JU-102 (ENSCO 102)

6. ACTIVITY:

- EXPLORATION(POE)
- DEVELOPMENT/PRODUCTION (DOCD/POD)

7. TYPE:

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

- FATALITY
- POLLUTION
- FIRE
- EXPLOSION

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

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

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

9. CAUSE:

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

- 10. WATER DEPTH: 303 FT.
- 11. DISTANCE FROM SHORE: 110 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:

On July 1, 2019, at 2:00 pm, an incident occurred at Vermilion Block 396 on board the Ensco 102 rig while pulling the workstring out of the hole (POOH). Synthetic Oil Based Mud (SOBM) splashed on an Ensco floor hand legs subsequently causing a Contact Dermatitis rash. On July 7, a helicopter transported the IP onshore for medical treatment. On July 15, Renaissance Offshore reported the incident to Bureau of Safety and Environmental Enforcement (BSEE) Lake Charles District Office.

On the day of the incident, the B-crew supervisor held a pre-tour safety meeting discussing the Work Instructions for POOH. At approximately 2:00pm, during the operation of POOH from the A-1 well a floor hand had SOBM splashed on his legs. The floor hand continued to work his tour with the SOBM on his clothing. On July 7, the floor hand reported to the medic he was having trouble walking due to a skin rash he was self-medicating. The medic examined the floor hand (i.e., Injured Person (IP)). The medic observed lesions and scabbed blisters to the front and back portions of both lower legs with open sores with signs of infection. On July 7, a helicopter at the Ensco 102 rig transported the IP onshore for medical treatment. On July 15, Renaissance Offshore reported the incident and evacuation of the IP to BSEE Lake Charles District Office with electronic notification in eWell.

On July 18, BSEE performed an onsite visit. During the investigation, BSEE investigators collected a statement from the medic, reviewed Ensco work instructions, and reviewed daily reports. BSEE requested by email all documents for POOH from June 29 through July 2 and a list of all required personal protection equipment (PPE) required by ENSCO and Renaissance for handling or working around SOBM. BSEE received a response email with the following required PPE: barrier cream, tyvek suits, nitrile gloves, face shield and goggles or mono shield in the event there is a possibility for splashing SOBM. The email also included work instruction, work instruction checklist, hazard identification prompt card, and International Association of Drilling Contractors (IADC) morning rig reports for June 29 through July 2.

On July 1, the A-crew supervisor filled out the work instruction checklist for POOH and hazard identification prompt card. The hazard identification prompt card identified the SOBM as a hazard. The following PPE was marked to control the hazard: barrier cream, goggles, tyvek suit. However, the work instructions form for POOH with Job Safety Analysis (JSA) signature page with all job factors, barriers, and assignments was not completed. On July 2, the A-crew supervisor completed the same forms he completed on July 1. BSEE could not find nitrile gloves in the completed forms for A-crew. On June 29 and July 1, the B-crew supervisor filled out the work instruction forms for POOH with JSA signature page. However, the work instructions and JSA did not identify SOBM as a hazard or include the required PPE. On July 2, the B-crew supervisor filled out two work instruction checklists and hazard identification prompt cards for POOH. However, the hazard of SOBM and required PPE: goggles, tyvek suits, and nitrile gloves is not documented.

BSEE investigators found the supervisors pre-tour safety meeting work instruction forms and JSA use is inconsistent. The supervisors on A&B crew are not completing the JSA each day for POOH furthermore; the JSA does not identify the PPE required for working with SOBM. The B-crew hazard identification prompt cards do not identify SOBM as a hazard and does not identify the correct PPE for working with SOBM. At the time of the incident, the IP was not wearing barrier cream, tyvek suit, nitrile gloves, face shield and goggles or a mono shield as reported to BSEE by email from Renaissance

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

The IP did not have the proper PPE when SOBM splashed on his clothing. The SOBM soaked through his clothing contacting his legs causing a Contact Dermatitis rash.

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

Supervision

- 1. Not ensuring the use of required PPE: The supervisor on the drill floor did not use stop work authority when the IP was not wearing proper PPE for SOBM.
- 2. Inadequate Job Instructions: Work instructions at the pre-tour safety meeting did not identify the hazard of SOBM or include the required PPE.
- 3. Inadequate pre-job safety meeting: Supervisors are not utilizing the JSA and signature page to identify the hazard of SOBM or required PPE.

Human Performance Error

- 1. Not following proper procedures: The IP did not immediately report his July 1, injury. On July 7, the IP reported to the medic he was having trouble walking due to a skin rash he was self-medicating.

20. LIST THE ADDITIONAL INFORMATION: N/A

21. PROPERTY DAMAGED: N/A NATURE OF DAMAGE: N/A
 ESTIMATED AMOUNT (TOTAL): \$

22. RECOMMENDATIONS TO PREVENT RECURRANCE NARRATIVE:

The BSEE Lake Charles District has no recommendations for the Office of Incident Investigations at this time.

23. POSSIBLE OCS VIOLATIONS RELATED TO ACCIDENT: YES

24. SPECIFY VIOLATIONS DIRECTLY OR INDIRECTLY CONTRIBUTING. NARRATIVE:

G-110 C 30 CFR §250.107(a): On July 1, the injured person (IP) did not have the proper personal protection equipment (PPE) when synthetic oil based mud (SOBM) splashed on his clothing. The SOBM soaked through his clothing contacting his legs causing a Contact Dermatitis rash.

G-132 W 30 CFR §250.188(a)(2): On July 7, the IP was transported onshore for medical treatment. On July 15, Renaissance Offshore reported the incident and evacuation of the IP to BSEE Lake Charles District Office with electronic notification in eWell. BSEE Lake Charles District Office did not receive a oral notification the day of the evacuation.

25. DATE OF ONSITE INVESTIGATION:
18-JUL-2019

28. ACCIDENT CLASSIFICATION:

29. ACCIDENT INVESTIGATION PANEL FORMED: NO

26. INVESTIGATION TEAM MEMBERS:
Guy Bertrand / Larry Miller / Mitchell Klumpp /

OCS REPORT:

30. DISTRICT SUPERVISOR: Mark Osterman

APPROVED DATE: 10-SEP-2019

27. OPERATOR REPORT ON FILE:

