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

### **ACCIDENT INVESTIGATION REPORT**

## For Public Release

DATE: 22-JAN-2018 TIME: 2330 HOURS  CR OT 2. OPERATOR: Anadarko Petroleum Corporation REPRESENTATIVE: TELEPHONE: CONTRACTOR: DIAMOND M DRILLING REPRESENTATIVE: SH	RUCTURAL DAMAGE ANE HER LIFTING MAGED/DISABLED SAFETY SYS. CIDENT >\$25K S/15MIN./20PPM QUIRED MUSTER UTDOWN FROM GAS RELEASE HER
3. OPERATOR/CONTRACTOR REPRESENTATIVE/SUPERVISOR ON SITE AT TIME OF INCIDENT:  4. LEASE: G06894 AREA: VK LATITUDE: 29.08361111 BLOCK: 915 LONGITUDE: -87.95194444  5. PLATFORM: RIG NAME: DIAMOND OCEAN BLACKHAWK	PRODUCTION  DRILLING WORKOVER COMPLETION HELICOPTER MOTOR VESSEL PIPELINE SEGMENT NO. OTHER
6. ACTIVITY:    X	9. CAUSE:  EQUIPMENT FAILURE  HUMAN ERROR EXTERNAL DAMAGE SLIP/TRIP/FALL WEATHER RELATED LEAK UPSET H2O TREATING OVERBOARD DRILLING FLUID
RW/JT (>3 days) Other Injury  FATALITY X POLLUTION FIRE EXPLOSION	OTHER  10. WATER DEPTH: 3564 FT.  11. DISTANCE FROM SHORE: 133 MI.  12. WIND DIRECTION: WNW  SPEED: 15 M.P.H.
LWC HISTORIC BLOWOUT  UNDERGROUND  SURFACE  DEVERTER  SURFACE EQUIPMENT FAILURE OR PROCEDURES  COLLISION HISTORIC >\$25K  <=\$25K	13. CURRENT DIRECTION: SE SPEED: 1 M.P.H.  14. SEA STATE: 3 FT.  15. PICTURES TAKEN:

MMS - FORM 2010 PAGE: 1 OF 3

16. STATEMENT TAKEN:

EV2010R 27-MAR-2018

#### For Public Release

On 22-Jan-2018 at approximately 2330 onboard the drillship Diamond Ocean Blackhawk, 80 barrels of Synthetic Oil-Based Mud (SOBM) was inadvertently discharged into Gulf of Mexico waters. The 11.8 ppg SOBM had a base oil content of 57.5%. This incident occurred while the rig crew was flushing the Coriolis Meter, which is a third party Mud Monitoring System.

After turning the mixing pump on and pumping was initiated, involved personnel noticed no returns to the mud pits. All pumping was stopped. After further investigation, it was discovered that the shakers were never turned on. This allowed the SOBM to flow over the shakers to the cuttings auger and cuttings dryer, and then down to the cuttings overboard discharge line and into the Gulf of Mexico.

The BSEE New Orleans District conducted an onsite investigation and reviewed documentation provided, including an unsigned Job Safety Analysis (JSA) worksheet for "Back flushing FLAG system with mixing pumps." Step 4 of this JSA stated the following: "Ensure personnel are in place (Shaker hand in shakers, and Dryer hand at unit), and all lines are lined up. Ensure shakers are on before turning the mixing pump on." The BSEE investigator was unable to confirm or deny that the JSA was ever reviewed prior to beginning this operation.

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

Failure to Follow Procedures - The shakers were not turned on before starting the mixing pump (Step 4 of JSA).

Inadequate Hazard Analysis - There was no indication that the JSA was reviewed prior to beginning the operation.

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

The cuttings overboard discharge line was open during this operation. Had the valve been closed no SOBM enters GOM waters.

20. LIST THE ADDITIONAL INFORMATION:

21. PROPERTY DAMAGED:

NATURE OF DAMAGE:

None

ESTIMATED AMOUNT (TOTAL):

22. RECOMMENDATIONS TO PREVENT RECURRANCE NARRATIVE:

The BSEE New Orleans District makes no recommendations to the Office of Incident Investigation.

- 23. POSSIBLE OCS VIOLATIONS RELATED TO ACCIDENT: YES
- 24. SPECIFY VIOLATIONS DIRECTLY OR INDIRECTLY CONTRIBUTING. NARRATIVE:

MMS - FORM 2010 PAGE: 2 OF 3

EV2010R 27-MAR-2018

#### E-100 (W) 30 CFR 250.300 For Public Release

After reviewing all documentation (JSA and witness statements), the operator failed to prevent

unauthorized discharge of pollutants into Gulf of Mexico waters.

#### G-110 (W) 30 CFR 250.107(a)

After further investigation, BSEE investigator determined the Lessee did not perform all operations in a safe and workmanlike manner for the preservation and conservation of property and the environment.

This resulted in 80-barrels of 11.8 ppg Synthetic Oil Base Mud to be released into Gulf of Mexico waters.

25. DATE OF ONSITE INVESTIGATION: 28. ACCIDENT CLASSIFICATION:

25-JAN-2018

Earl Roy /

EV2010R

26. INVESTIGATION TEAM MEMBERS: 29. ACCIDENT INVESTIGATION PANEL FORMED: **NO** 

OCS REPORT:

30. DISTRICT SUPERVISOR:

David Trocquet

27. OPERATOR REPORT ON FILE:

APPROVED

DATE: 26-MAR-2018

27-MAR-2018

MMS - FORM 2010 PAGE: 3 OF 3