

UNITED STATES DEPARTMENT OF THE INTERIOR
 MINERALS MANAGEMENT SERVICE
 GULF OF MEXICO REGION
ACCIDENT INVESTIGATION REPORT

1. OCCURRED

DATE: **23-NOV-2005** TIME: **1930** HOURS

2. OPERATOR: **BP Exploration & Production Inc.**

REPRESENTATIVE: **Mr. Jim Spizale**

TELEPHONE: **(713) 232-8262**

CONTRACTOR: **Transocean Offshore**

REPRESENTATIVE: **Mr. Van Williams**

TELEPHONE: **(713) 232-8262**

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

Mr. Jamie Morrison

4. LEASE: **G18194**

AREA: **MC** LATITUDE:

BLOCK: **126** LONGITUDE:

5. PLATFORM:

RIG NAME: **T.O. DEEPWATER HORIZON**

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

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

6. OPERATION:

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

8. CAUSE:

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

9. WATER DEPTH: **4304** FT.

10. DISTANCE FROM SHORE: **55** MI.

11. WIND DIRECTION: **NE**
 SPEED: **37** M.P.H.

12. CURRENT DIRECTION: **S**
 SPEED: **1** M.P.H.

13. SEA STATE: **14** FT.

17. DESCRIBE IN SEQUENCE HOW ACCIDENT HAPPENED:

November 21, 2005 at 1500 hrs - Well had 60 bbls loss. No broaching at mudline observed by ROV. Discharge of 59 bbls of SBM occurred as a result of loss of casing connectivity. With an unintentional back-off of both the 36" and 20 x 22" casing strings, the Synthetic Base Mud (SBM) inside the 20 x 22' casing string was broached to the seafloor during diagnostic and P&A operations. The following efforts were made to minimize losses to seafloor:

- (1) Immediate shut-in of blind rams when investigate original losses.
- (2) Displacement of choke, kill & riser to seawater prior to opening up.
- (3) Placement of P&A cement plug to minimize volume of SBM to be displaced while pumping job.
- (4) Immediate securing of well by P&A.

November 23, 2005 at 1930 hrs - Displace mud from casing during P&A cement plug setting operations. Lost 286 bbls of SMB.

A total volume of 345 bbls of whole mud was lost in the Gulf of Mexico. Sixty percent or 212 bbls of mud was base synthetic oil.

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

- (A) Inadequate make-up torque on casing.
- (B) Poor cement job on surface casing string.

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

- (A) Possible poor alignment of rig.

21. PROPERTY DAMAGED:

SBM

NATURE OF DAMAGE:

Discharge of Synthetic Oil Base Mud

ESTIMATED AMOUNT (TOTAL): **\$72,629**

22. RECOMMENDATIONS TO PREVENT RECURRENCE NARRATIVE:

No recommendations to MMS.

The New Orleans District concurs with the operator's recommendation to prevent recurrence as stated below:

Recommendations to preclude any future incident of this type:

- (1) Increase make-up torque to maximum torque.**
- (2) Increase % excess cement on primary cement job for surface casing.**
- (3) Limit rig heading changes to emergency repositioning after stack is latched.**
- (4) Continued investigation into fluid-bearing break-out torques and re-evaluation of connector torques-resistance design.**

23. POSSIBLE OCS VIOLATIONS RELATED TO ACCIDENT: **NO**

24. SPECIFY VIOLATIONS DIRECTLY OR INDIRECTLY CONTRIBUTING. NARRATIVE:

25. DATE OF ONSITE INVESTIGATION:

29-NOV-2005

26. ONSITE TEAM MEMBERS:

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

OCS REPORT:

30. DISTRICT SUPERVISOR:

Troy Trosclair

APPROVED

DATE: **16-FEB-2006**