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

1. OCCURRED
   DATE: 21-OCT-2007 TIME: 0915 HOURS

2. OPERATOR: Anadarko Petroleum Corporation
   REPRESENTATIVE: Reier, Gaylene
   TELEPHONE: (832) 636-3096
   CONTRACTOR: Diamond Offshore Drilling, Inc.
   REPRESENTATIVE: Summers, Alan
   TELEPHONE: (281) 647-2168

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

4. LEASE: G24179
   AREA: GC LATITUDE: 27.22331583
   BLOCK: 726 LONGITUDE: -90.8363025

5. PLATFORM:
   RIG NAME: DIAMOND OCEAN VALIANT

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

7. TYPE:
   HUMAN ERROR
   EQUIPMENT FAILURE
   HISTORIC INJURY
   REQUIRED EVACUATION
   LTA (1-3 days)
   LTA (>3 days)
   RW/JT (1-3 days)
   RW/JT (>3 days)
   Other Injury
   POLLUTION
   EXPLOSION
   FIRE
  _EXPLOSION
   UNDERGROUND
   SURFACE
   DEVERTER
   HISTORIC BLOWOUT
   SURFACE EQUIPMENT FAILURE OR PROCEDURES
   COLLISION
   HISTORIC
   >$25K
   <=$25K
   REQUIRED MUSTER
   SHUTDOWN FROM GAS RELEASE
   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: 4674 FT.

10. DISTANCE FROM SHORE: 150 MI.

11. WIND DIRECTION: E
    SPEED: 14 M.P.H.

12. CURRENT DIRECTION: NW
    SPEED: 0 M.P.H.

13. SEA STATE: 4 FT.
17. INVESTIGATION FINDINGS:

At approximately 0915 hours on 21 October 2007, the Diamond Ocean Valiant was conducting drilling operations when the riser began losing mud. The Remotely Operated Vehicle (ROV) immediately observed mud being discharged from a split in the side of the riser termination joint. Within approximately 1-1/2 hours, 1929 barrels of Synthetic Base Mud (SBM) was discharged into GOM waters. The synthetic portion of the mud was 55%, therefore giving a total of 1061 barrels of synthetic fluid released.

After securing the well with a storm packer, the riser was pulled to surface for examination. A nearly two foot long split was found in the termination joint along with heavy keyseating damage.

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

The cause of the incident was insufficient riser tension. This allowed for keyseating to occur which led to the rupture of the termination joint.

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

*The correct tension to be pulled on the riser was not done prior to changing the fluid from seawater to 15 ppg mud within the riser as prescribed by API RP 16Q. In addition to insufficient tension being pulled on the riser, the configuration of the riser was incorrect. Even if the proper tension had been pulled on the riser with the configuration that the rig was utilizing, it still would have been insufficient because the riser was actually heavier than the rig was aware.

*Non-Rotating Drill Pipe Protectors (NRDPP) were not being used at the time of the incident. Keyseating is wear caused by the whipping of the drill string against the riser wall while the drill string is rotating.

20. LIST THE ADDITIONAL INFORMATION:

The termination joint is located at the bottom of the riser above where it connects to the BOP stack. The termination joint had been in service for approximately two years and all inspection reports prior to this operation were acceptable. In addition to the termination joint, the riser adaptor joint also sustained damage.

21. PROPERTY DAMAGED: NATURE OF DAMAGE:
The damaged portions of the riser were the termination joint and riser adaptor joint. The termination joint sustained keyseating and rupture. The riser adaptor joint sustained keyseating.

ESTIMATED AMOUNT (TOTAL): $180,000

22. RECOMMENDATIONS TO PREVENT RECURRANCE NARRATIVE:

The Houma District has no recommendations for the Regional Office of Safety Management.

23. POSSIBLE OCS VIOLATIONS RELATED TO ACCIDENT: YES

24. SPECIFY VIOLATIONS DIRECTLY OR INDIRECTLY CONTRIBUTING. NARRATIVE:

An Incident of Non-Compliance (E-100) for pollution will be issued since the cause was human error.

25. DATE OF ONSITE INVESTIGATION:

24-OCT-2007

26. ONSITE TEAM MEMBERS:

Ben Coco / Jerry Freeman / Kelly Bouzigard /

29. ACCIDENT INVESTIGATION

PANEL FORMED: NO

OCS REPORT:

30. DISTRICT SUPERVISOR:

Bryan A. Domangue

APPROVED
DATE: 01-JUL-2008
1. VOLUME: GAL 1061 BBL
   YARDS LONG X YARDS WIDE

   APPEARANCE:

2. TYPE OF HYDROCARBON RELEASED: 
   - [X] OIL
   - [ ] DIESEL
   - [ ] CONDENSATE
   - [ ] HYDRAULIC
   - [ ] NATURAL GAS
   - [ ] OTHER Synthetic Based Mud

3. SOURCE OF HYDROCARBON RELEASED: Riser release of Synthetic Base Mud (SBM)

4. WERE SAMPLES TAKEN?  NO

5. WAS CLEANUP EQUIPMENT ACTIVATED?  NO

   IF SO, TYPE: 
   - [ ] SKIMMER
   - [ ] CONTAINMENT BOOM
   - [ ] ABSORPTION EQUIPMENT
   - [ ] DISPERGANTS
   - [ ] OTHER

6. ESTIMATED RECOVERY: GAL BBL

7. RESPONSE TIME: HOURS

8. IS THE POLLUTION IN THE PROXIMITY OF AN ENVIRONMENTALLY SENSITIVE AREA (CLASS I)?  NO

9. HAS REGION OIL SPILL TASK FORCE BEEN NOTIFIED?  NO

10. CONTACTED SHORE:  NO  IF YES, WHERE:

11. WERE ANY LIVE ANIMALS OBSERVED NEAR:  NO

12. WERE ANY OILED OR DEAD ANIMALS OBSERVED NEAR SPILL:  NO