

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

1. OCCURRED
 DATE: **19-JUL-2008** TIME: **1248** HOURS

2. OPERATOR: **Apache Corporation**
 REPRESENTATIVE: **Wetzel, Gary**
 TELEPHONE: **(337) 354-8130**
 CONTRACTOR: **TETRA Technologies, Inc.**
 REPRESENTATIVE: **Peter Stipelcovich**
 TELEPHONE: **(337) 205-4975**

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

4. LEASE: **G01520**
 AREA: **SS** LATITUDE:
 BLOCK: **204** LONGITUDE:

5. PLATFORM: **A**
 RIG NAME:

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 **Plug and Abandonment**

8. CAUSE:

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

9. WATER DEPTH: **100** FT.

10. DISTANCE FROM SHORE: **43** MI.

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

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

13. SEA STATE: FT.

17. DESCRIBE IN SEQUENCE HOW ACCIDENT HAPPENED:

While conducting P/A operations on well SS 204 A-13, Apache's contractor Tetra was using CTS to wash a sand bridge from the wellbore. During these operations, Tetra personnel observed a casing patch on the 13.375" x 26" DP was leaking oil. At 1030 hrs, CTS rigged down CT injector head and wash assembly. At 1045 hrs, the casing patch began blowing gas. Non-essential personnel were evacuated to SS 207A.

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

The 26" drive pipe casing patch became weakened from the cyclic loading of the CT injector, BOP stack, and the coil. The weight of the system was overrated for the patch job and the patch failed. In addition, after washing thru the perforations @ 12,302'-12,334' MD with C/T, the well kicked letting a gas influx into the 2.875" TBG, which traveled to surface where holes in the tubing and all of the casing strings had developed from corrosion, which in turn exposed the gas with oil to open atmosphere.

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

The 26" drive pipe had not been repaired correctly.

20. LIST THE ADDITIONAL INFORMATION:

21. PROPERTY DAMAGED:

None

NATURE OF DAMAGE:

None

ESTIMATED AMOUNT (TOTAL):

22. RECOMMENDATIONS TO PREVENT RECURRENCE NARRATIVE:

The Houma District has no recommendations for the Regional Office.

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

24. SPECIFY VIOLATIONS DIRECTLY OR INDIRECTLY CONTRIBUTING. NARRATIVE:

25. DATE OF ONSITE INVESTIGATION:

23-JUL-2008

26. ONSITE TEAM MEMBERS:

Kelly Bouzigard / Jerry Freeman /

29. ACCIDENT INVESTIGATION

PANEL FORMED: **NO**

OCS REPORT:

30. DISTRICT SUPERVISOR:

Bryan A. Domangue

APPROVED

DATE: **03-OCT-2008**

BLOWOUT ATTACHMENT

1. WELL NAME: **A013** WELL NO.: **177112009700** LEASE: **G01520**
2. OPERATION: DRILLING COMPLETION
 WORKOVER PRODUCTION
3. SIMULTANEOUS OPERATIONS IN PROGRESS? **NO**
4. FLUID TYPE: **SEAWATER** WEIGHT: **8.6** PPG
5. BOP STACK CONFIGURATION: SIZE: **2.5625** IN
Annular, blind ram, shear rams, slip rams, pipe rams PRESS RATING: **10000** PSI
6. BOP STACK - LAST TEST DATE PRIOR TO INCIDENT: **07-JUL-2008** PRESSURE: **5000** PSI
7. LAST CASING STRING SET: FT SIZE: IN
8. SIZE OF DRILLING/WORKOVER STRING IN HOLE: **1.50** IN
9. KICK SIZE: **1** BBLs
10. FLUID KILL WEIGHT: **13.1** PPG
11. INITIAL S.I.C.P.: **600** PSI
12. S.I.D.P./W.S.P.: **3000** PSI
13. PRIOR HOLE PROBLEMS? **YES**
14. WELL CONTROL EQUIPMENT INITIALLY ACTIVATED:
- | | |
|--|--------------------------------------|
| <input type="checkbox"/> ANNULAR BO | <input type="checkbox"/> SCSSV |
| <input checked="" type="checkbox"/> PIPE | <input type="checkbox"/> SSV |
| <input type="checkbox"/> BLIND | <input type="checkbox"/> OTHER _____ |
| <input type="checkbox"/> BLIND SHEA | |
15. EVACUATION: **YES**

16. DIVERTER SYSTEM VALVE SIZE:
LINE SIZE:
 SINGLE SPOOL
 DUAL SPOOL
17. WAS WELL DIVERTED? **NO**
18. BOTTOM HOLE ASSEMBLY:
**1.93" wash nozzle, set dual flapper valves,
hydraulic disconnect**
19. DRILLING DEPTH: **11380** TVD **12300** MD
20. DATE LAST FORMATION INTEGRITY TEST:

21. SSSV TYPE: **Tree removed per P/A
procedure**
DATE LAST TESTED:
22. TREE: ON OFF
23. SURFACE SAFETY
EQUIPMENT IN SERVICE? **NO**
24. WELL TD: **12275** TVD **13195** MD
25. OPEN PERF? **YES**