

UNITED STATES DEPARTMENT OF THE INTERIOR  
BUREAU OF OCEAN ENERGY MANAGEMENT, REGULATION AND ENFORCEMENT  
GULF OF MEXICO REGION

# ACCIDENT INVESTIGATION REPORT

1. OCCURRED

DATE: **10-MAY-2011** TIME: **0930** HOURS

2. OPERATOR: **Apache Corporation**  
REPRESENTATIVE: **Garber, John**  
TELEPHONE: **(337) 354-8126**  
CONTRACTOR:  
REPRESENTATIVE:  
TELEPHONE:

- STRUCTURAL DAMAGE
- CRANE
- OTHER LIFTING DEVICE
- 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:

6. OPERATION:

4. LEASE: **00438**  
AREA: **EI** LATITUDE:  
BLOCK: **175** LONGITUDE:

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

5. PLATFORM: **F**  
RIG NAME:

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

8. CAUSE:

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

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

FATALITY  
 POLLUTION  
 FIRE  
 EXPLOSION

LWC  HISTORIC BLOWOUT  
 UNDERGROUND  
 SURFACE  
 DEVERTER  
 SURFACE EQUIPMENT FAILURE OR PROCEDURES

9. WATER DEPTH: **83** FT.

10. DISTANCE FROM SHORE: **59** MI.

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

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

COLLISION  HISTORIC  >\$25K  <=\$25K 13. SEA STATE: FT.

17. INVESTIGATION FINDINGS:

On 10 May 2011 at approximately 0930 hours, a crane operator (CO) inadvertently pulled the auxiliary line lever while attempting to raise the load line. This caused the auxiliary ball to make contact with the crane tip which severed the auxiliary line. The CO was back-loading a high pressure pump (HP pump) weighing approximately 3500 lbs. from the platform to the field boat. Prior to starting the crane the CO inspected the crane using Apache's Pre Use Inspection form which includes the anti-two block system. The rigger assisting the CO attached the HP pump to the load line. The CO began lifting the load and adjusted the crane boom over the water. As the boat captain was positioning the boat towards the crane, the CO was attempting to adjust the load line but inadvertently pulled the auxiliary line lever. As the auxiliary ball made contact with the boom tip, the anti-two block cross-over valve for the override failed. The auxiliary ball made contact with the crane boom causing the auxiliary cable to sever. The auxiliary ball descended into the Gulf waters, but did not come in contact with the boat. The CO was able to place the HP pump safely on the boat and the crane was placed out-of-service due to the shock load on the crane and the damage to the auxiliary line. No injuries or pollution resulted from this incident.

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

The CO inadvertently pulled the auxiliary line lever while attempting to raise the load line, and then failed to react quick enough to prevent the auxiliary ball from making contact with the boom tip.

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

The Apache Corporation's Offshore Crane and Maintenance Program Section 6.0 (d) Operating Practices, Procedures, and Requirements indicated that required crane safety devices (i.e., anti-two blocking mechanisms on hoist lines, high and low boom angle shutdowns) shall be functioning properly whenever the crane is in operation. The anti-two block system was inspected after the incident and failed to stop the auxiliary line once the anti-two block was actuated.

20. LIST THE ADDITIONAL INFORMATION:

21. PROPERTY DAMAGED:

Auxiliary ball and Auxiliary line

NATURE OF DAMAGE:

Auxiliary line severed

ESTIMATED AMOUNT (TOTAL): \$8,000

22. RECOMMENDATIONS TO PREVENT RECURRENCE NARRATIVE:

The BOEMRE Lafayette District Office makes no recommendations to the BOEMRE Regional Office of Safety Management (OSM).

23. POSSIBLE OCS VIOLATIONS RELATED TO ACCIDENT: YES

24. SPECIFY VIOLATIONS DIRECTLY OR INDIRECTLY CONTRIBUTING. NARRATIVE:

INC G-110 is issued "After the Fact" to document that Apache Corporation failed to protect health, safety and the environment by not performing operations in a safe and workmanlike manner as follows: A crane operator failed to properly operate 150-H-60 Unit crane in a safe manner to protect the equipment and employees. The crane operator inadvertently pulled the auxiliary lever causing the auxiliary ball to make contact with the crane tip and sever the auxiliary line. The accident was the result of careless operation.

Apache Corporation is advised to submit a letter of explanation addressing the aforementioned INC., and its plans for eliminating future incidents of this nature to the BOEMRE Lafayette District.

25. DATE OF ONSITE INVESTIGATION:

16-MAY-2011

26. ONSITE TEAM MEMBERS:

Wade Guillotte / Tom Basey /

29. ACCIDENT INVESTIGATION

PANEL FORMED: NO

OCS REPORT:

30. DISTRICT SUPERVISOR:

Elliott S. Smith

APPROVED

DATE: 21-JUN-2011

# INJURY/FATALITY/WITNESS ATTACHMENT

OPERATOR REPRESENTATIVE

INJURY

CONTRACTOR REPRESENTATIVE

FATALITY

OTHER No witnesses for this incident

WITNESS

NAME: n/a

HOME ADDRESS:

CITY:

STATE:

WORK PHONE:

TOTAL OFFSHORE EXPERIENCE:

YEARS

EMPLOYED BY:

BUSINESS ADDRESS:

CITY:

STATE:

ZIP CODE:

# Crane/Other Material-Handling Equipment Attachment

## Equipment Information

Installation date: 01-JAN-1980

Manufacturer: UNIT

Manufacture date: 01-JAN-1980

Make/Model: 3261 / 150H60

Any modifications since manufactured? Describe and include date(s).

What was the maximum lifting capacity at the time of the lift?

Static: 4233      Dynamic: 4233

Was a tag line utilized during the lift? Y

Were there any known documented deficiencies prior to conducting the lift? If yes, what were the deficiencies?

none

List specific type of failure that occurred during this incident. (e.g. cable parted, sticking control valve, etc.)

Anti-two block

If sling/loose gear failure occurred does operator have a sling/loose gear inspection program in place?

Type of lift:

**For crane only:**

Type of crane: HYDRAULIC

Boom angle at time of incident: Degrees: 40      Radius: 64

What was load limit at that angle? 4233

Crane equipped with: F

Which line was in use at time of incident? L

If load line involved, what configuration is the load block: 4 part.

## Load Information

What was being lifted? **HIGH PRESSURE PUMP**

Description of what was being lifted (e.g. 10 joints of 2 3/8-inch pipe, ten 500-lb. sacks of sand, 2 employees, etc.)

Approximate weight of load being lifted: **3500**

Was crane/lifting device equipped with an operable weight indicator? **N**

Was the load identified with the correct or approximate weight? **Y**

Where was the lift started, where was it destined to finish, and at what point in the lift did the incident occur? Give specific details (e.g. pipe rack, riser cart, drill floor, etc.)

If personnel was being lifted at the time of this incident, give specific details of lifting device and riding apparatus in use (e.g. 1) crane-personnel basket, 2) air hoist-boatswain chair, other)

Were personnel wearing a safety harness? **NA**

Was a lifeline available and utilized? **NA**

List property lost overboard.

**AUXILIARY BALL**

## Rigger/Operator Information

Has rigger had rigger training?

If yes, date of last training:

How many years of rigger experience did rigger have?

How many hours was the operator on duty prior to the incident? 3

Was operator on medication when incident occurred? N

How many hours was the rigger on duty prior to the incident?

How much sleep did rigger have in the 24 hours preceding this incident? 8

Was rigger on medication when incident occurred?

Were all personnel involved in the lift drug tested immediately following this incident?

Operator: N                      Rigger:                      Other:

While conducting the lift, was line of sight between operator and load maintained?

Y

Does operator wear glasses or contact lenses? N

If so, were glasses or contacts in use at time of the incident? N

Does operator wear a hearing aid? N

If so, was operator using hearing aid at time of the incident? N

What type of communication system was being utilized between operator and rigger at time of this incident?

### For crane only:

What crane training institution did crane operator attend?

UNIT

Where was institution located? NA

Was operator qualified on this type of crane? Y

How much actual operational time did operator have on this particular crane involved in this incident?

Years:7                      Months 0

List recent crane operator training dates.

16-JUNE-2008

**For other material-handling equipment only:**

Has operator been trained to operate the lifting device involved in the incident? **N**

How many years of experience did operator have operating the specific type of lifting device involved in the incident?





**For other material-handling equipment only:**

Was equipment visually inspected before the lift took place?

What is the manufacture's recommendation for performing periodic inspection on the equipment involved in this incident?

## Safety Management Systems

Does the company have a safety management program in place? **N**

Does the company's safety management program address crane/other material-handling equipment operations?

**Y**

Provide any remarks you may have that applies to the company's safety management program and this incident?

**Pre-use inspection addresses anti-two block**

Did operator fill out a Job Safety Analysis (JSA) prior to job being performed?

**Y**

Did operator have an operational or safety meeting prior to job being performed?

**Y**

What precautions were taken by operator before conducting lift resulting in incident?

Procedures in place for crane/other material-handling equipment activities:

Did operator have procedures written? **Y**

Did procedures cover the circumstances of this incident? **Y**

Was a copy available for review prior to incident? **Y**

Were procedures available to MMS upon request? **Y**

Is it documented that operator's representative reviewed procedures before conducting lift?

**Y**

Additional observations or concerns: