

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

# ACCIDENT INVESTIGATION REPORT

1. OCCURRED

DATE: **29-JUL-2010** TIME: **0945** HOURS

2. OPERATOR:

**Energy XXI GOM, LLC**

REPRESENTATIVE: **Kay Morgan**

TELEPHONE: **(713) 351-3048**

CONTRACTOR: **Fluid Crane and Construction**

REPRESENTATIVE: **Ross Bonin**

TELEPHONE: **(337) 364-6191**

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

4. LEASE: **G02062**

AREA: **EC** LATITUDE:

BLOCK: **334** LONGITUDE:

5. PLATFORM: **E**

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 **Spill from cut process piping**

6. OPERATION:

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

8. CAUSE:

EQUIPMENT FAILURE  
 HUMAN ERROR  
 EXTERNAL DAMAGE  
 SLIP/TRIP/FALL  
 WEATHER RELATED  
 LEAK  
 UPSET H2O TREATING  
 OVERBOARD DRILLING FLUID  
 OTHER **Release of liquid hydrocarbons**

9. WATER DEPTH: **242** FT.

10. DISTANCE FROM SHORE: **103** MI.

11. WIND DIRECTION: **SSW**  
SPEED: **7** M.P.H.

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

13. SEA STATE: **2** FT.

17. INVESTIGATION FINDINGS:

On 29 July 2010, a BOEMRE inspector was in route to a predetermined location when he noticed a bright multicolored sheen approximately ¼ mile long by 100 feet wide emanating from an offshore platform. When the inspector landed on the platform the crew was in the process of controlling the source of pollution. The inspector learned that the platform was shut-in while a third party construction crew was in the processing of making repairs to the platform when the incident occurred. The scope of the work included replacing corroded piping associated with the production process system. At the time of the incident, a construction worker was wearing a fall arrest apparatus and working at an elevated height over open water while utilizing an electric band saw to make a cut on the 1-inch dump line associated with the generator fuel gas filter, fuel gas scrubber and sump pump discharge line. The cut in the pipe released liquid hydrocarbons which spilled onto the individual making the cut and into the gulf waters. Although the individual was not injured during the incident, any personnel rescue efforts would have been very difficult due to his location on the platform.

The onsite investigation also revealed that the 1-inch line had not been properly isolated and rendered free of liquid hydrocarbons prior to making the cut. In addition, the BOEMRE Inspector observed a drain valve approximately 40 feet to 50 feet away from where the cut was made on the 1-inch dump line. This drain valve provided a location to check for the presence of fluid prior to making the cut, but had not been identified on the Job Safety Analysis (JSA) Form. Although the potential hazard of hydrocarbons entering the gulf waters was identified on the JSA, it failed to specifically address draining and flushing lines before cutting. The JSA also failed to mention other critical safety measures for specific work activities such as wearing a life jacket and fall protection while working over water and rescue measures for injured personnel working at elevated heights over open waters. Furthermore, the crew did not follow company Lockout and Tagout procedures which are established to mitigate the risk of pollution incidents and personnel injuries.

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

A construction worker utilized an electric band saw to cut into process piping that had not been rendered free of liquid hydrocarbons.

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

Human error by all parties involved as a result of the following:

1. Poor judgment in that the cutting operation was performed without recognizing the hazards of the process piping not being rendered free of hydrocarbon before making the cut.
2. Failure to adhere to written procedures stipulated in the company Lockout/Tagout procedures combined with the deficient JSA allowed critical safety hazards to be overlooked. The JSA form failed to address task specific hazards and mitigating safety measures.

20. LIST THE ADDITIONAL INFORMATION:

A similar incident is referenced in MMS safety Alert No. 188, where a construction worker was fatally burned when he utilized an electric band saw to cut into a process line that had not been properly isolated and rendered inert.

21. PROPERTY DAMAGED:

None

NATURE OF DAMAGE:

None

ESTIMATED AMOUNT (TOTAL):

\$

22. RECOMMENDATIONS TO PREVENT RECURRENCE NARRATIVE:

The Lake Charles District recommends that the Regional Office of Safety Management consider re-issuing the aforementioned Safety Alert No. 188 with additions specific to this incident since this type of incident is recurring. The Safety Alert is recommended to highlight the importance of proper isolation and rendering process piping free of hydrocarbons prior to hot work. The Lake Charles district investigated another incident similar in nature that occurred in May of this year.

23. POSSIBLE OCS VIOLATIONS RELATED TO ACCIDENT: YES

24. SPECIFY VIOLATIONS DIRECTLY OR INDIRECTLY CONTRIBUTING. NARRATIVE:

G-110 - The failure to perform all operations in a safe and workmanlike manner resulted in a pollution incident. The crew failed to properly isolate and render the piping free of hydrocarbons prior to performing the cutting operations.

25. DATE OF ONSITE INVESTIGATION:

29-JUL-2010

26. ONSITE TEAM MEMBERS:

Scott Mouton / Darron Miller /  
Willard Smith / Terry Hoillier /

29. ACCIDENT INVESTIGATION

PANEL FORMED: NO

OCS REPORT:

30. DISTRICT SUPERVISOR:

Larry Williamson

APPROVED

DATE: 15-DEC-2010

# INJURY/FATALITY/WITNESS ATTACHMENT

<input type="checkbox"/>	OPERATOR REPRESENTATIVE	<input type="checkbox"/>	INJURY
<input type="checkbox"/>	CONTRACTOR REPRESENTATIVE	<input type="checkbox"/>	FATALITY
<input checked="" type="checkbox"/>	OTHER <u>Third party construction</u>	<input checked="" type="checkbox"/>	WITNESS

NAME :

HOME ADDRESS :

CITY :

STATE :

WORK PHONE :

TOTAL OFFSHORE EXPERIENCE :

YEARS

EMPLOYED BY :

BUSINESS ADDRESS :

CITY :

STATE :

ZIP CODE :

<input type="checkbox"/>	OPERATOR REPRESENTATIVE	<input type="checkbox"/>	INJURY
<input type="checkbox"/>	CONTRACTOR REPRESENTATIVE	<input type="checkbox"/>	FATALITY
<input checked="" type="checkbox"/>	OTHER <u>Third party construction</u>	<input checked="" type="checkbox"/>	WITNESS

NAME :

HOME ADDRESS :

CITY :

STATE :

WORK PHONE :

TOTAL OFFSHORE EXPERIENCE :

YEARS

EMPLOYED BY :

BUSINESS ADDRESS :

CITY :

STATE :

ZIP CODE :

# POLLUTION ATTACHMENT

1. VOLUME: .45 GAL BBL  
423 YARDS LONG X 33 YARDS WIDE

APPEARANCE: **RAINBOW SHEEN**

2. TYPE OF HYDROCARBON RELEASED:  OIL  
 DIESEL  
 CONDENSATE  
 HYDRAULIC  
 NATURAL GAS  
 OTHER \_\_\_\_\_

3. SOURCE OF HYDROCARBON RELEASED: **1 inch process drain piping cut by electric bandsaw**

4. WERE SAMPLES TAKEN? **NO**

5. WAS CLEANUP EQUIPMENT ACTIVATED? **NO**

IF SO, TYPE:  SKIMMER  
 CONTAINMENT BOOM  
 ABSORPTION EQUIPMENT  
 DISPERSANTS  
 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**

