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

ACCIDENT INVESTIGATION REPORT

1.	OCCURRED	_			
	DATE:	STRUCTURAL DAMAGE			
	16-JAN-2010 TIME: 1300 HOURS	CRANE			
		OTHER LIFTING DEVICE			
2.	OPERATOR: Apache Corporation	DAMAGED/DISABLED SAFETY SYS. INCIDENT >\$25K H2S/15MIN./20PPM REQUIRED MUSTER SHUTDOWN FROM GAS RELEASE OTHER			
	REPRESENTATIVE: Brian Sinclair				
	TELEPHONE: (337) 210-8524				
	CONTRACTOR: Wood Group Production Services				
	REPRESENTATIVE: Jim Strauss				
	TELEPHONE: (985) 868-4116				
3.	OPERATOR/CONTRACTOR REPRESENTATIVE/SUPERVISOR ON SITE AT TIME OF INCIDENT:	6. OPERATION:			
		x PRODUCTION			
		DRILLING			
4.	LEASE: G02193	WORKOVER			
	AREA: MP LATITUDE: 29.293869	COMPLETION			
	BLOCK: 140 LONGITUDE: -88.861681	HELICOPTER			
		MOTOR VESSEL			
5.	PLATFORM: A	PIPELINE SEGMENT NO.			
	RIG NAME:	OTHER			
6.	ACTIVITY: EXPLORATION(POE)	8. CAUSE:			
	x DEVELOPMENT/PRODUCTION	EQUIPMENT FAILURE			
_	(DOCD/POD)	X HUMAN ERROR			
١.	TYPE:	EXTERNAL DAMAGE SLIP/TRIP/FALL WEATHER RELATED LEAK			
	HISTORIC INJURY				
	REQUIRED EVACUATION 1				
	LTA (1-3 days)				
	☐ LTA (>3 days	UPSET H2O TREATING			
RW/JT (1-3 days)		OVERBOARD DRILLING FLUID			
	RW/JT (>3 days)	OTHER			
	Other Injury	9. WATER DEPTH: 165 FT.			
	FATALITY				
	POLLUTION	10. DISTANCE FROM SHORE: 13 MI.			
	X FIRE				
	L EXPLOSION	11. WIND DIRECTION: S			
	LWC HISTORIC BLOWOUT	SPEED: 20 M.P.H.			
	UNDERGROUND				
	SURFACE	12. CURRENT DIRECTION:			
	DEVERTER	SPEED: M.P.H.			
	SURFACE EQUIPMENT FAILURE OR PROCEDURES	OI EED - PI.F.II.			
	COLLISION HISTORIC >\$25K <-\$25K	13. SEA STATE: FT.			

MMS - FORM 2010 PAGE: 1 OF 4

EV2010R

17. INVESTIGATION FINDINGS:

While performing Air Arc Gouging (AAG) to remove an old crane gearbox, third party Crane Mechanics inadvertently rigged up a gas line instead of an air line to the AAG. The fuel gas line was not marked, properly isolated and rendered inert before performing the hot work operation. As a result, sparks ignited the fuel gas causing a flash fire that burned one Crane Mechanic's face and neck. The fire was extinguished by the Fire Watch utilizing a 30 lb fire extinguisher. Improper Job Safety Analysis (JSA) and Hot Work planning contributed to the incident. The Injured Person (IP) was evacuated for medical treatment and released.

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

The Crane Mechanics used fuel gas instead of air for AAG, resulting in the fuel gas being ignited from sparks during the hot work operation.

- 19. LIST THE CONTRIBUTING CAUSE(S) OF ACCIDENT:
 - 1) The Operator did not properly walk out the job with the Crane Mechanics.
 - 2) The JSA was not properly planned, since it did not identify the proper air connections, the fuel gas line was not marked, properly isolated and rendered inert before performing the hot work operation.
 - 3) The JSA and Hot Work Permit stated that fire tarps were to be used on the top level, but there was no designated monitor should any hot slag, sparks or flammable debris land on the flowing wells in the well bay below.
- 20. LIST THE ADDITIONAL INFORMATION:

21. PROPERTY DAMAGED:

NATURE OF DAMAGE:

MMS - FORM 2010 PAGE: 2 OF 4 N/A N/A

ESTIMATED AMOUNT (TOTAL):

22. RECOMMENDATIONS TO PREVENT RECURRANCE NARRATIVE:

The MMS New Orleans District makes no recommendations to the MMS Regional Office of Safety Management (OSM).

- 23. POSSIBLE OCS VIOLATIONS RELATED TO ACCIDENT: YES
- 24. SPECIFY VIOLATIONS DIRECTLY OR INDIRECTLY CONTRIBUTING. NARRATIVE:

Notification of Incident of Noncompliance G-110 - The JSA was not properly planned. The Operator did not properly walk-thru the job specifics with the crane mechanics to ensure the job would be performed safely. The JSA did not identify the proper air connections and the isolation of the fuel gas supply line.

Notification of Incident of Noncompliance G-112 - The Operator did not provide for the safety of all personnel and facilities. Third party contractors performed connections for AAG to a welding machine and an unmarked 1-inch platform fuel gas supply line, causing a flash fire that injured the Crane Mechanic. Before initiating hot work operations, the Operator should have properly isolated and rendered inert the fuel gas line containing flammable gas. The Operator did not designate a second Fire Watch for the hot work operation being performed approximately 8 feet from open grating above the well bay. Although the JSA & Hot Work Permit stated there were fire tarps on the top level, no one was designated to monitor should any hot slag, sparks or flammable debris landed on the flowing wells in the well bay below.

All of these violations posed an immediate danger to the entire facility and personnel, that resulting in the fire and injury to the Crane Mechanic.

25. DATE OF ONSITE INVESTIGATION:

22-JAN-2010

26. ONSITE TEAM MEMBERS:

Kevin Sterling / . /

29. ACCIDENT INVESTIGATION PANEL FORMED:

OCS REPORT:

30. DISTRICT SUPERVISOR:

David J. Trocquet

APPROVED

DATE: 06-APR-2010

MMS - FORM 2010 PAGE: 3 OF 4 06-APR-2010

EV2010R

FIRE/EXPLOSION ATTACHMENT

1.	SOURCE OF	'IGNITION:	Sparks	during	hot work	operation.	
2.	TYPE OF F	UEL: [HYDR	ENSATE AULIC			
	WERE PREC	CE: Fuel CAUTIONS OF	ACTIONS	ply line	TO ISOLAT		
5.	TYPE OF F	TREFIGHTIN	IG EQUIPM	ENT UTI	LIZED: X	HANDHELD WHEELED UNIT FIXED CHEMICA	.L
						FIXED WATER NONE	

PAGE: 4 OF 4 MMS - FORM 2010 EV2010R 06-APR-2010