

UNITED STATES DEPARTMENT OF THE INTERIOR -
BUREAU OF SAFETY AND ENVIRONMENTAL ENFORCEMENT -
GULF OF MEXICO REGION -

ACCIDENT INVESTIGATION REPORT

For Public Release

1. OCCURRED

DATE: **21-MAR-2015** TIME: **1500** HOURS

2. OPERATOR: **Anadarko Petroleum Corporation**

REPRESENTATIVE:

TELEPHONE:

CONTRACTOR: -

REPRESENTATIVE:

TELEPHONE:

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

4. LEASE: **G14205**

AREA: **EB** LATITUDE:

BLOCK: **602** LONGITUDE: -

5. PLATFORM: - **A (NANSEN SPAR)**

RIG NAME:

6. ACTIVITY: EXPLORATION (POE)

DEVELOPMENT/PRODUCTION
(DOCD/POD)

7. TYPE:

HISTORIC INJURY -

REQUIRED EVACUATION 1 -

LTA (1-3 days)

LTA (>3 days) 1

RW/JT (1-3 days)

RW/JT (>3 days)

Other Injury 1 medical - stitches -

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 **Hot Bolting**

8. CAUSE:

EQUIPMENT FAILURE

HUMAN ERROR

EXTERNAL DAMAGE -

SLIP/TRIP/FALL -

WEATHER RELATED

LEAK

UPSET H2O TREATING

OVERBOARD DRILLING FLUID

OTHER _____

9. WATER DEPTH: **3675** FT.

10. DISTANCE FROM SHORE: **142** MI.

11. WIND DIRECTION: -

SPEED: M.P.H.

12. CURRENT DIRECTION:

SPEED: M.P.H.

13. SEA STATE: FT.

On 21 March 2015 at approximately 1500 hours, an injury requiring medical evacuation occurred at Anadarko Petroleum's East Breaks 602 'A' Nansen SPAR, Lease G-14205. The operation at the time of the incident involved two contract workers tasked with replacing corroded 1" stud bolts on a flange of the production header. The Injured Party (IP) was struck in the upper lip by a swivel socket attached to a Pneumatic Torque Unit (PTU) when it slipped off the nut of the stud bolt.

The IP reported to the facility Medic for evaluation at approximately 1510 hours. The facility Medic's statement concluded the IP sustained a laceration to the right side of the mouth approximately one-quarter inch above the upper lip with possible maxilla fracture and dental trauma to the front teeth. At approximately 1705 hours, the Search and Rescue (SAR) helicopter arrived at the Nansen SPAR and transported the IP to Lake Charles Regional Airport. The IP was then transported to Lake Charles Regional Hospital by ambulance for treatment. The initial report from the IP's employer stated the attending Physician evaluated the IP for a laceration to the face, concussion and dental trauma.

The initial scope of work was to replace corroded nuts and stud bolts on the production header utilizing a Hydraulic Torque Unit (HTU). The HTU was found to have a defective Emergency Shut Down (ESD) and a spare HTU was not available. The Contractor and Lessee decided to continue replacing the corroded nuts and stud bolts with a Pneumatic Torque Unit (PTU) and swivel socket. The IP was struck on the upper right side of the lip by the swivel socket when it slipped off the nut when the PTU was engaged causing the injury.

On 23 March 2015 the BSEE Lake Jackson District conducted an onsite investigation and determined the Contractor and Lessee failed to utilize Best Available and Safest Technology and failed to initiate Stop Work Authority when a PTU was substituted in lieu of a HTU. A PTU with a swivel socket induces impact and was utilized to replace the corroded 1" stud bolts on the production header. A PTU produces extreme pressure pulsation to the impact area to loosen or tighten a bolt. These same pressure pulsations can cause swivel sockets to release from the nut and cause injury. A HTU applies a steady pressure without extreme pressure pulsation and would alleviate the potential of the swivel socket releasing off the stud bolt, which struck the IP in the upper lip causing the injury.

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

Improper tool selection was utilized to perform stud bolt and nut replacement when the Hydraulic Torque Unit was found to be equipped with a faulty Emergency Shut Down.

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

The Contractor and Lessee failed to initiate Stop Work Authority. -
The proper tool was not equipped with an operable ESD. -

20. LIST THE ADDITIONAL INFORMATION:

21. PROPERTY DAMAGED:

NATURE OF DAMAGE:

ESTIMATED AMOUNT (TOTAL):

22. RECOMMENDATIONS TO PREVENT RECURRANCE NARRATIVE:

23. POSSIBLE OCS VIOLATIONS RELATED TO ACCIDENT: **YES**

24. SPECIFY VIOLATIONS DIRECTLY OR INDIRECTLY CONTRIBUTING. NARRATIVE:

G-110 'C'

A Pneumatic Torque Wrench/Unit with a swivel socket induces impact and was utilized to replace the corroded 1" stud bolts on the production header. A Pneumatic Torque Wrench/Unit produces extreme pressure pulsation to the impact area to loosen or tighten a bolt. These same pulsations can cause swivel sockets to release from the nut and cause bodily injury. A Hydraulic Torque Unit applies a steady pressure without extreme pressure pulsation and would alleviate the potential of the swivel socket releasing off the stud bolt, which struck the IP in the upper lip causing the injury.

25. DATE OF ONSITE INVESTIGATION:

23-MAR-2015

26. ONSITE TEAM MEMBERS:

Mike Hankamer / Jacob Trevino /
Marcus Bianca /

29. ACCIDENT INVESTIGATION

PANEL FORMED: **NO**

OCS REPORT:

30. DISTRICT SUPERVISOR:

Stephen P. Martinez

APPROVED

DATE: **26-MAY-2015**

INJURY/FATALITY/WITNESS ATTACHMENT

OPERATOR REPRESENTATIVE

INJURY

CONTRACTOR REPRESENTATIVE

FATALITY

OTHER _____

WITNESS

NAME:

HOME ADDRESS:

INJURY/FATALITY/WITNESS ATTACHMENT

For Public Release

CITY:

STATE:

WORK PHONE:

TOTAL OFFSHORE EXPERIENCE: 3 YEARS

EMPLOYED BY:

BUSINESS ADDRESS:

CITY:

STATE:

ZIP CODE: