

# ***FINAL REPORT***



***ACCIDENT DESCRIPTION***

***CAUSES OF THE ACCIDENT***

## **ACCIDENT DESCRIPTION**

On November 9, 2014, a young and inexperienced driver of the loader was asked to lay out the 10-inch gas pipes stored across the excavated channel. The young man, who has always tried to show his capability and courage at work in his short career, had several times repeated unsafe behavior against the instructions. In some of these cases, he was warned by the relevant authorities according to their respective duties and responsibilities.

The person went to the location of gas pipes depot alone without informing others and separated three pipes from the rest with the loader bucket to throw a belt around them.

Then he got off the loader and went to the top of the depot pipes and tried to throw the belt around the three pipes, suddenly he slipped on the pipes and loosed his balance and fell between them.

As a result of his slipping and striking the pipes, several pipes moved and one of them which was unstable, shifted and crashed to his back hardly.

The pipe with more than 500 kg weight put a lot of pressure on his belly and chest. He tried to save himself but he didn't succeed.

Unfortunately, since he had left his mobile phone in the cabin of the loader, he couldn't ask for help. The pressure from weight of the pipe was so high which made him unable to breathe normally and unfortunately he lost his life after a short time.

A few hours after the death of the loader driver, one of the contractors who was passing around that area, found the loader was turned on. He went near the scene of the accident and saw body of the victim.

## **CAUSES OF THE ACCIDENT**

The investigation evaluated the following issues:

- Lack of training and ignoring the instructions and procedures caused the loader driver did this high-risk work without getting any work permit for moving and laying out gas pipes by loader. The lack of knowledge about the regulation of work permits at contractor and design consultant company has been the root cause of the accident.
- Any high-risk maintenance or service activity must be performed in presence of the controller and the workshop supervisor.

- Gas pipes must be laid out and moved by a crane or side boom with the considering safety precautions and presence of a guide. Loader, excavator, forklift and etc. should never be used for this purpose.
- Taken images after the accident show the pipes were not stacked on the top of each other regularly and no restraints were used to hold the pipes in place. Since smoothing and reshaping under the pipes was not made properly, the surface was not smooth and therefore it was not possible to arrange the pipes.



**Figure 1.** Smoothing and reshaping under the pipes was not made properly

- Loader driver didn't use appropriate personal protective equipment such as safety shoes, helmets and work clothes.