

NIOSH Fatality in Oil and Gas (FOG) Database (and Hydrocarbon gas and vapor exposure related fatalities)

Kyla Retzer, MPH, Epidemiologist
NIOSH Western States Division (Denver, CO)
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The findings and conclusions in this presentation are those of the author and do not necessarily represent the views of the National Institute for Occupational Safety and Health.

NIOSH Fatalities in Oil and Gas (FOG) database

Contains **detailed information** about
oil and gas worker fatalities in the U.S.

Includes

All identified fatal events to U.S. oil and gas extraction workers

- Land-based
- Offshore
- Common O&G NAICS
- Uncommon O&G NAICS
- Motor vehicle incidents
- Non-traditional commutes
- Cardiac events

Excludes

Midstream, downstream, non-fatal injuries

Limitations

Off-site motor vehicle incidents, work-related chronic illness

Data Sources

OSHA, media, crash reports, autopsy reports, industry etc.

Fatalities in Oil and Gas (FOG) database

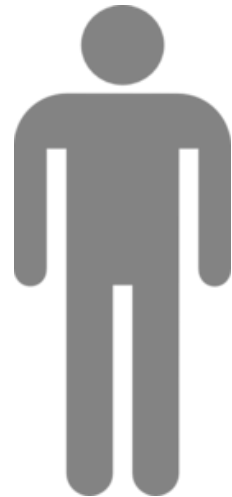


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Variables per Incident

- ✓ Operation
- ✓ Activities
- ✓ Type of Event
- ✓ Equipment Involved
- ✓ Contributing Factors

FOG collects the details that are missing from other data sources

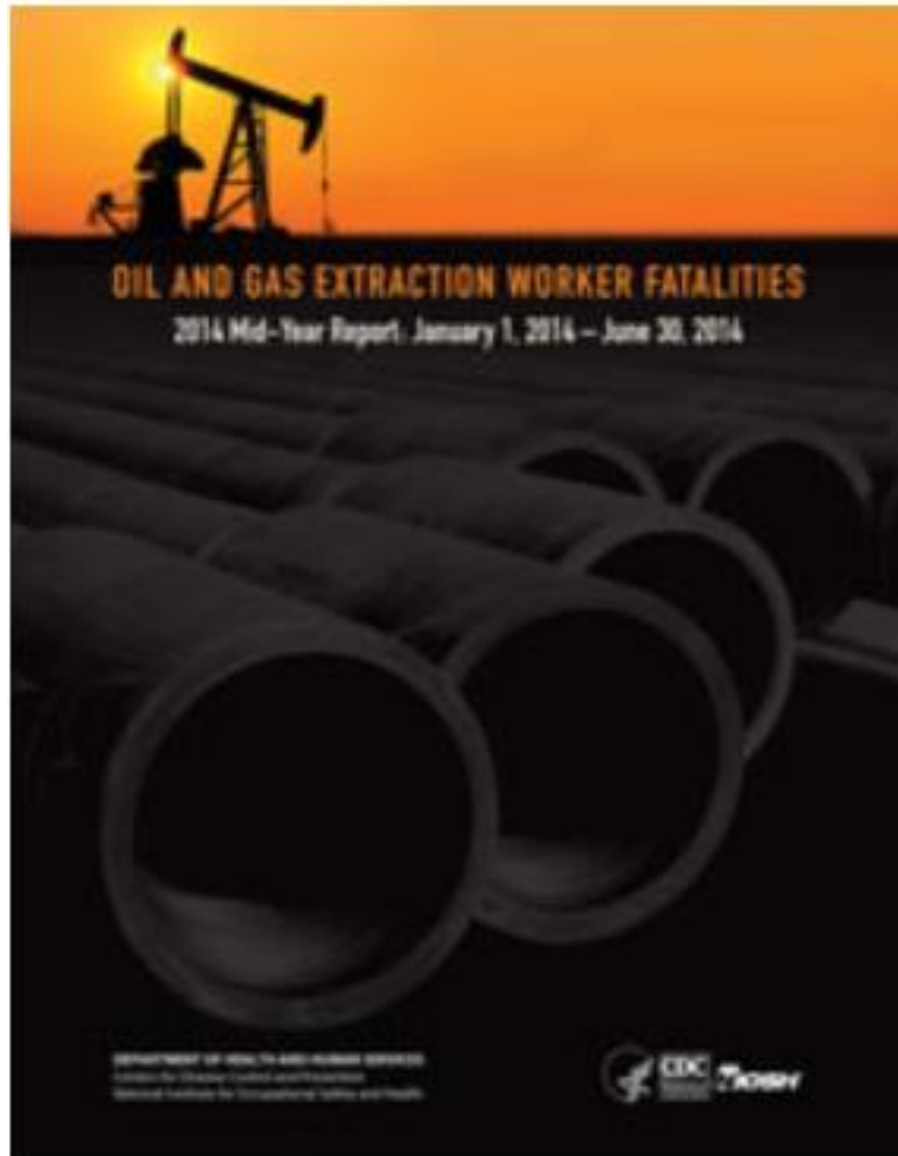


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Variables per Worker

- ✓ Occupation
- ✓ Years in Oilfield
- ✓ English as a Second Language

Periodic Reports



Special Topic Reports

Fatalities Involving
Workers during
Manual Tank Gauging,
Sampling, and Fluid
Transfer Operations on
Oil and Gas Well Sites,
2010-2014

<http://www.cdc.gov/niosh/topics/fog/publications.html>

Case Definition

Fatalities related to Hydrocarbon Gas and Vapor Exposure

- Non-traumatic
- Worker in proximity to a known and concentrated source of hydrocarbon gases and vapors. (open hatch)
- Hydrogen Sulfide (H₂S) was ruled out.
- Not confined space.
- Not fires/explosions.
- Case by Case Review conducted by OSHA/NIOSH.



Fatalities on Oil and Gas Well Sites Involving an Open Thief Hatch, 2010-2014

- 9 fatalities (Ages 20-63 years)
- North Dakota (3), Colorado (3), Texas (1), Oklahoma (1), Montana (1)
- 5 during thieving (collecting a sample) by fluid haulers
- 4 while manual tank gauging
- All working alone or not being observed
- One employee was wearing 4-gas monitor, reported 6.5% O₂
- One sought medical evaluation for dizziness, etc. a few weeks prior

We would like to work with you!

- To Identify all oil and gas worker fatalities
- To collect information about the death
- To fulfill your data requests and questions about about oil and gas fatal events

[Contact: Kyla Retzer](#)

- kretzer@cdc.gov
- 303-236-5934

