

GATHERING LINES:
THOUSANDS OF NEW MILES

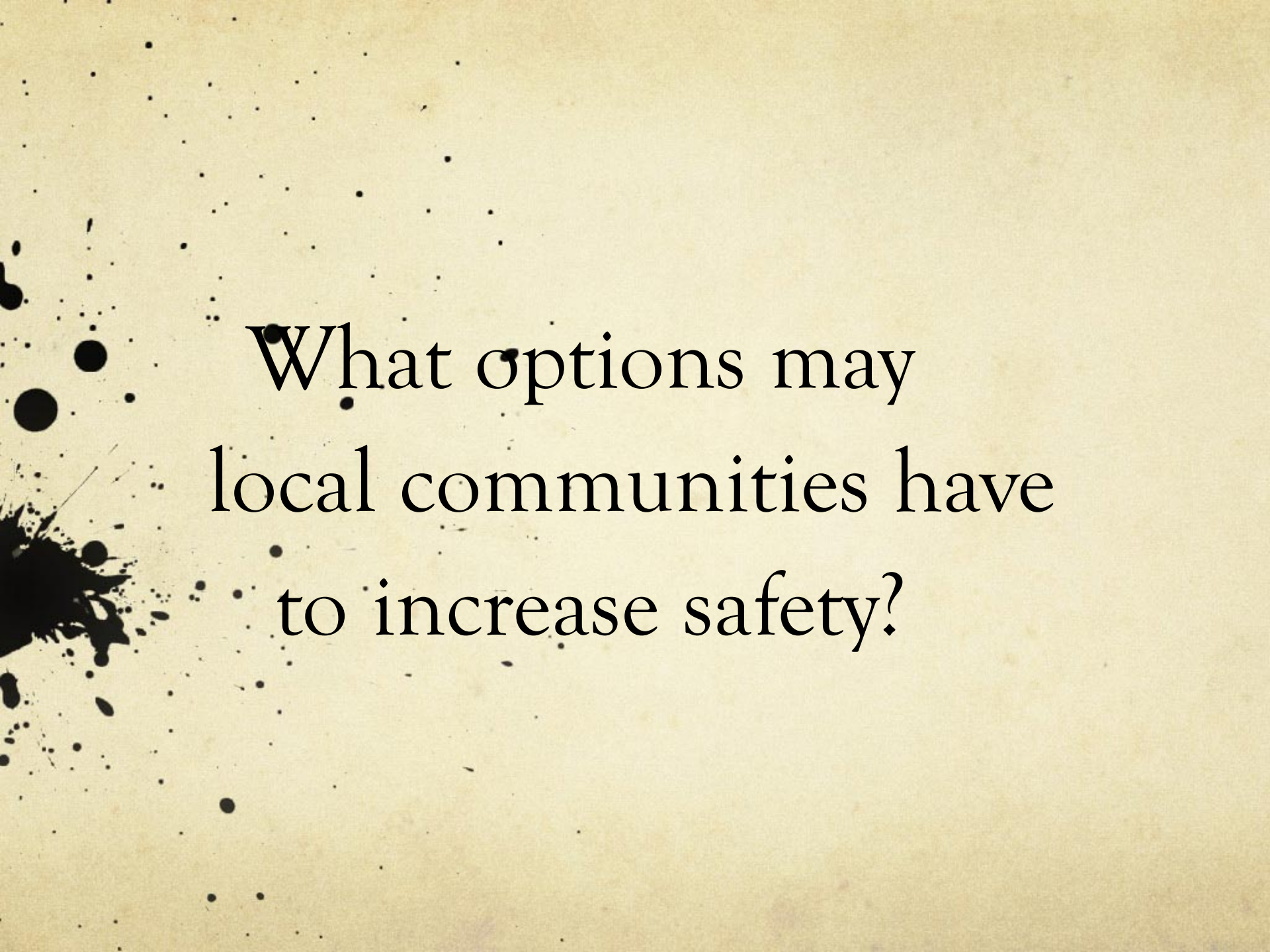
UNREGULATED?

REALLY??



REALLY

How are gathering lines
affecting
local communities
in Colorado?



What options may
local communities have
to increase safety?



Regulate
on the local level

The Myth of Regulation

If you regulates us
we will leave.

The Myth of Self-Regulation

We do not need regulation
because we will do
what is best on our own.

**COLORADO
OIL AND GAS
CONSERVATION COMMISSION
(COGCC)**



1100 Series:
Pipeline Regulation

1101. INSTALLATION AND RECLAMATION

- a. Material
- b. Design
- c. Cover
- d. Excavation/backfill/reclamation
- e. Pressure testing of flowlines

1102. OPERATIONS, MAINTENANCE, REPAIR

a. Maintenance

b. Repair


c. Marking

d. One Call participation

e. Emergency response

1103. ABANDONMENT





**LOCAL
GOVERNMENT
REGULATION**

COLORADO REVISED STATUTES

29-20-102

29-20-104

30-28-115

30-28-203

24-65.1-101(1)c

Some Options

LOCATION

SETBACKS

FEEES

LIMITATIONS

GRI-00-0189

A Model For Sizing
High Consequence Areas
Associated With
Natural Gas Pipelines

GRI-00/0189 ABSTRACT

- This report developed a simple and defensible approach to sizing the ground area potentially affected by a worst-case ignited rupture of a high-pressure natural gas pipeline.
- That is a simple equation has been developed that relates the diameter and operating pressure of a pipeline to the **size of the area likely to experience high consequences** in the event of an ignited rupture failure.

THE EQUATION

Relates diameter and operating pressure

of a pipeline to

Size of the Affected Area

in the event of a

Credible Worst-Case Failure Event


High Consequence Area(HCA)

The area within which both
the extent of property damage
and
the chance of serious or fatal injury
would be expected to be significant

“The proposed hazard area radius equation provides a reasonable, if somewhat conservative, estimate of the zone of high consequence.”

Public Health, Safety, Welfare

If pipeline incidents are seen as infrequent, they must also be seen for the potentially serious consequences that may significantly impact the general public.



Cost
Benefit
Analysis

Kunen's *Reckless Disregard*

- Ford Motor Company's Choice:
 - Should it recall fleets of school buses in order to repair a defective chassis design, or pay damages from any accidents caused by the defective chassis.
 - They chose the latter, a 'credible worst case failure event'; that led to the deaths of 24 children riding one of their buses.
 - Options: Plan ahead of time or clean up and apologize.

COMMITMENTS