



PHMSA

Office of Pipeline Safety

Eastern Region

“To ensure the safe, reliable, and environmentally sound operation of the Nation’s pipeline transportation system.”



Onshore Gas Gathering





Presentation Outline:

- I. What is the Office of Pipeline Safety's roll in the Marcellus Shale development?**
- II. How are gathering lines and regulated gathering lines determined? Examples will be provided.**
- III. How are Class locations determined?**
- IV. What are the compliance requirements for type A and Type B regulated gathering lines?**
- V. What are the compliance deadlines?**
- VI. Closing Statement.**



PHMSA – Our roll in the Marcellus Shale development.

What we do:

- Regulate the transportation of natural gas and hazardous liquids by pipelines....including gathering lines.
- Title 49 Code of Federal Regulations



PHMSA – Our roll in the Marcellus Shale development.

What we don't do:

Land issues

ROW issues

Drilling

Production activities, production lines

Zoning issues....etc



How are gathering lines and regulated gathering lines determined?

- Gathering Lines are defined under §192.8, §192.9 (Title 49 CFR)
- API RP 80 (incorporated by reference)
- Federal Regulations do not apply to gathering lines in class 1 areas (area extending 220 yards on each side of any continuous 1 mile length of pipeline with <10 dwellings)
- Federal Regulations only apply to gathering lines in class 2, 3, or 4 areas.



How are class locations defined?

- Class locations are defined under §192.5 of the code.
- A "class location unit" is an area that extends 220 yards on either side of the centerline of any continuous 1-mile of pipeline.
- Each separate dwelling unit in a multiple dwelling unit building is counted as a separate building intended for human occupancy.



Class Locations:

- **A Class 1 location** is defined as any class location unit that has 10 or fewer buildings intended for human occupancy.
- **A Class 2 location** is defined as any class location unit that has more than 10 but fewer than 46 buildings intended for human occupancy.



Class locations continued.....

- **A Class 3 location:** any class location unit that has 46 or more buildings intended for human occupancy
- **A Class 4 location:** any class location unit where buildings with four or more stories above ground are prevalent



§192.8 – How are gathering lines and regulated gathering lines determined?

An Operator must use API RP 80* to determine if a pipeline (or part of a connected series of pipelines) is a gathering line. After making the determination, an operator must determine if the gathering line is a regulated gathering line under paragraph (b) of this section.

*API RP 80 – 1st edition, April 2000 incorporated by reference in §192.7



Under Section (b), Regulated Gathering lines are broken down into two types.

Type A and Type B.



Categories of Regulated Gathering Lines

Type “A”

- => 20% SMYS; or
- Above 125 psig for non-metallic
- Located in Class Locations 2, 3 and 4 (as defined under code section 192.5)

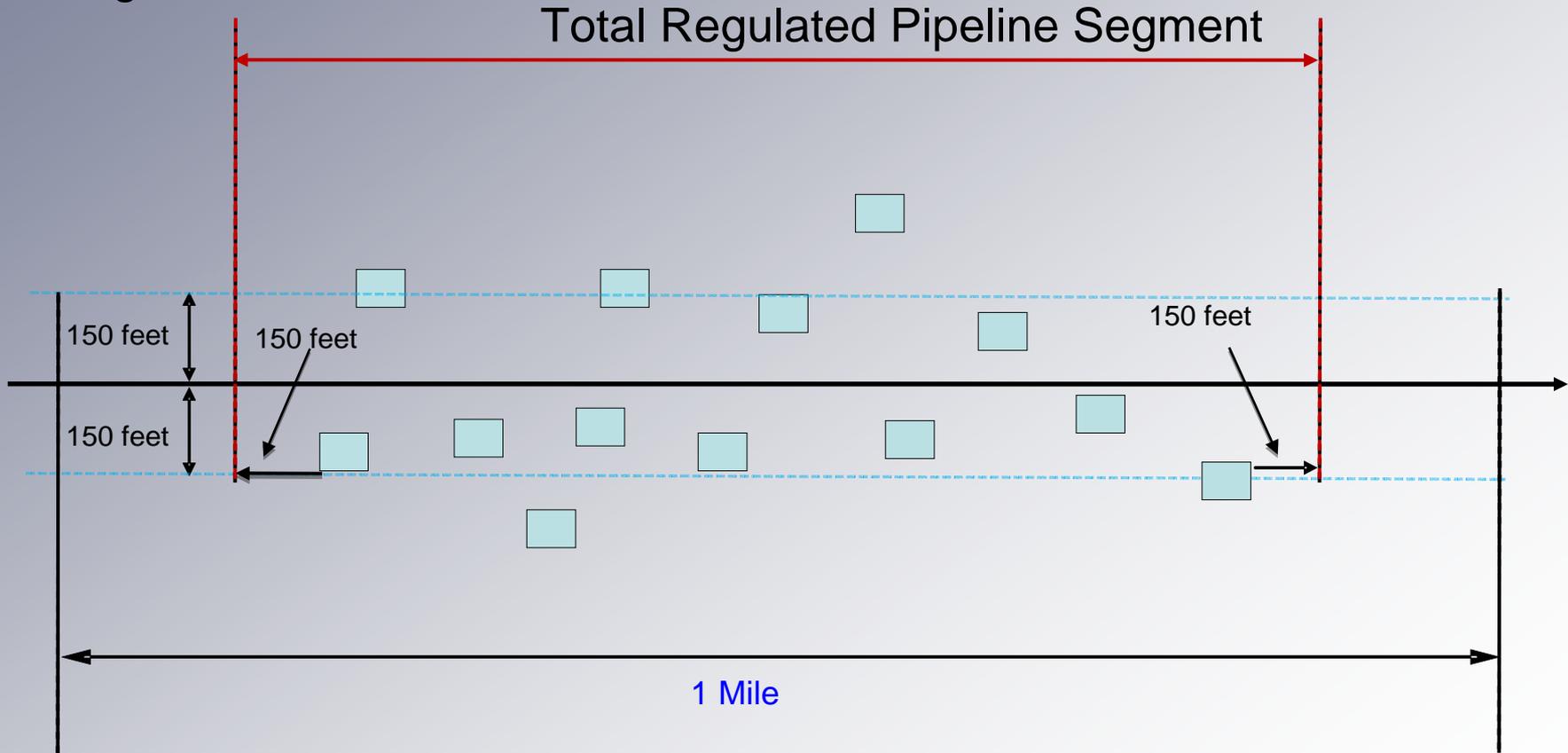


Type “B”

- < 20% SMYS; or
- At or below 125 psig for non-metallic
- Located in Class Locations 3 and 4 (as defined by code 192.5)
- Class 2 Areas determined by any of the following 3 methods:
 - a. Class 2 location definition per 192.5
 - b. Area extending 150 ft on each side of any continuous 1 mile pipeline with >10 but <46 dwellings. (safety buffer)
 - c. Area extending 150 ft on each side of any continuous 1000 feet with 5 or more dwellings. (safety buffer)

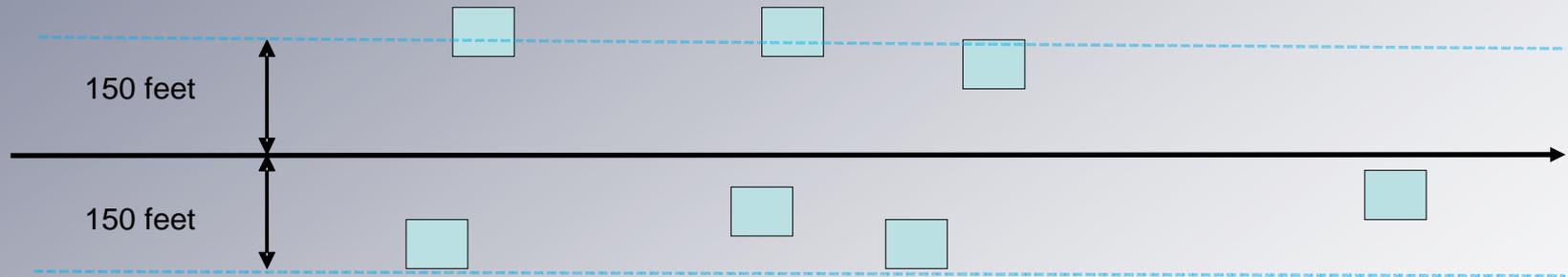


Type B, Class 2, sliding mile Application - Area extending 150 ft on each side of any continuous 1 mile pipeline with >10 but <46 dwellings.



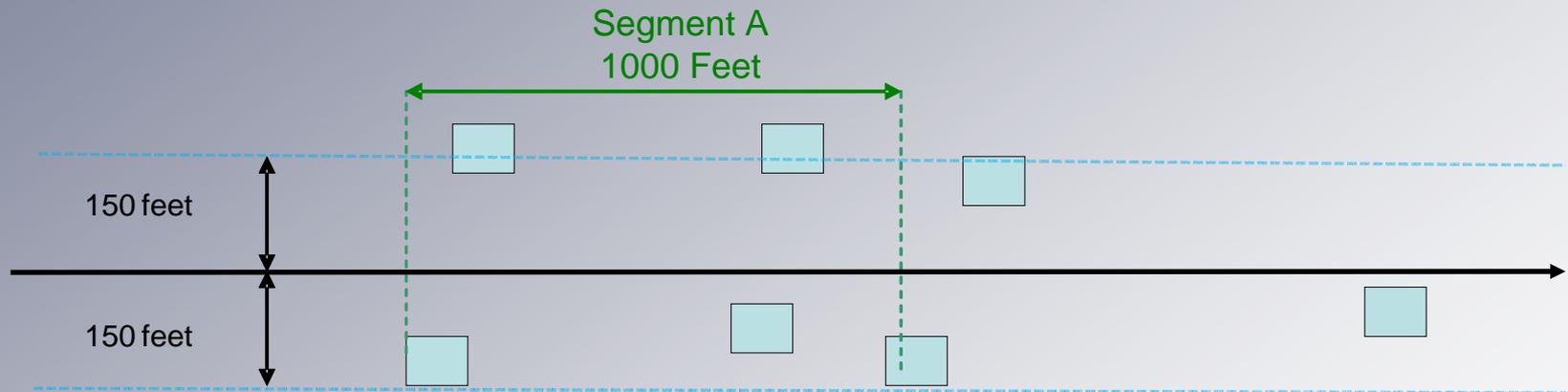


Type B, Class 2, 1000 ft. Application - Area extending 150 ft on each side of any continuous 1000 feet with 5 or more dwellings.



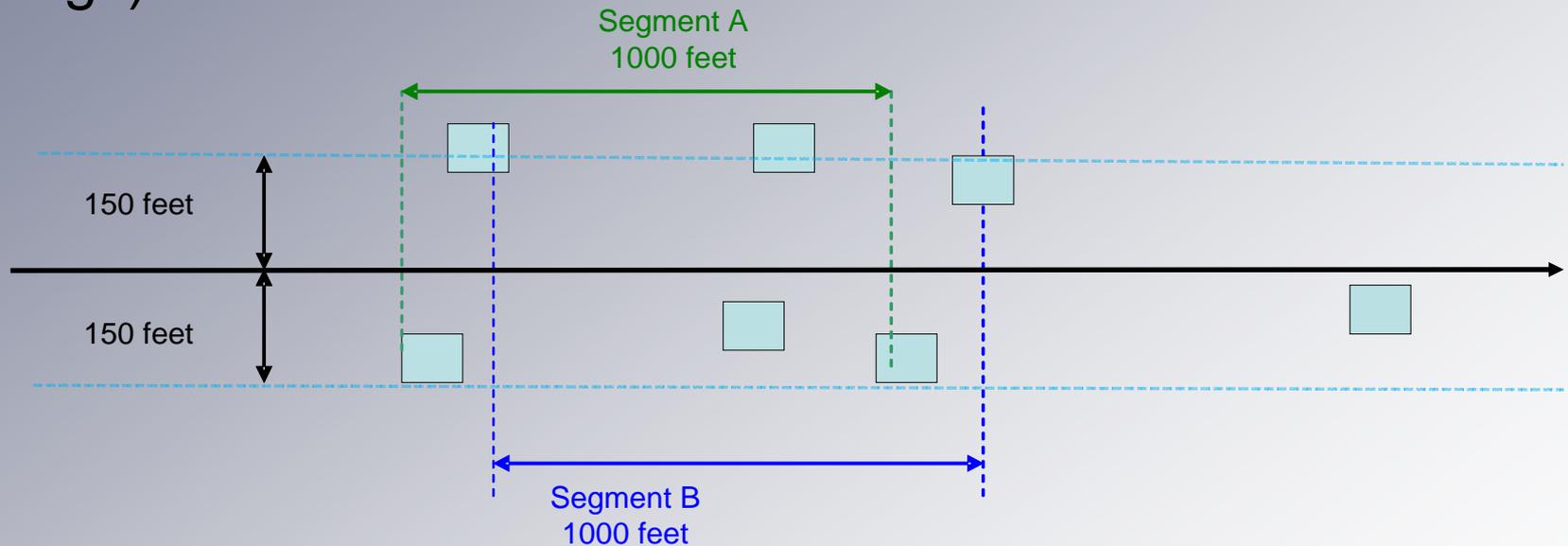


Type B, Class 2, 1000 ft. Application (Area extending 150 ft on each side of any continuous 1000 feet with 5 or more dwellings)



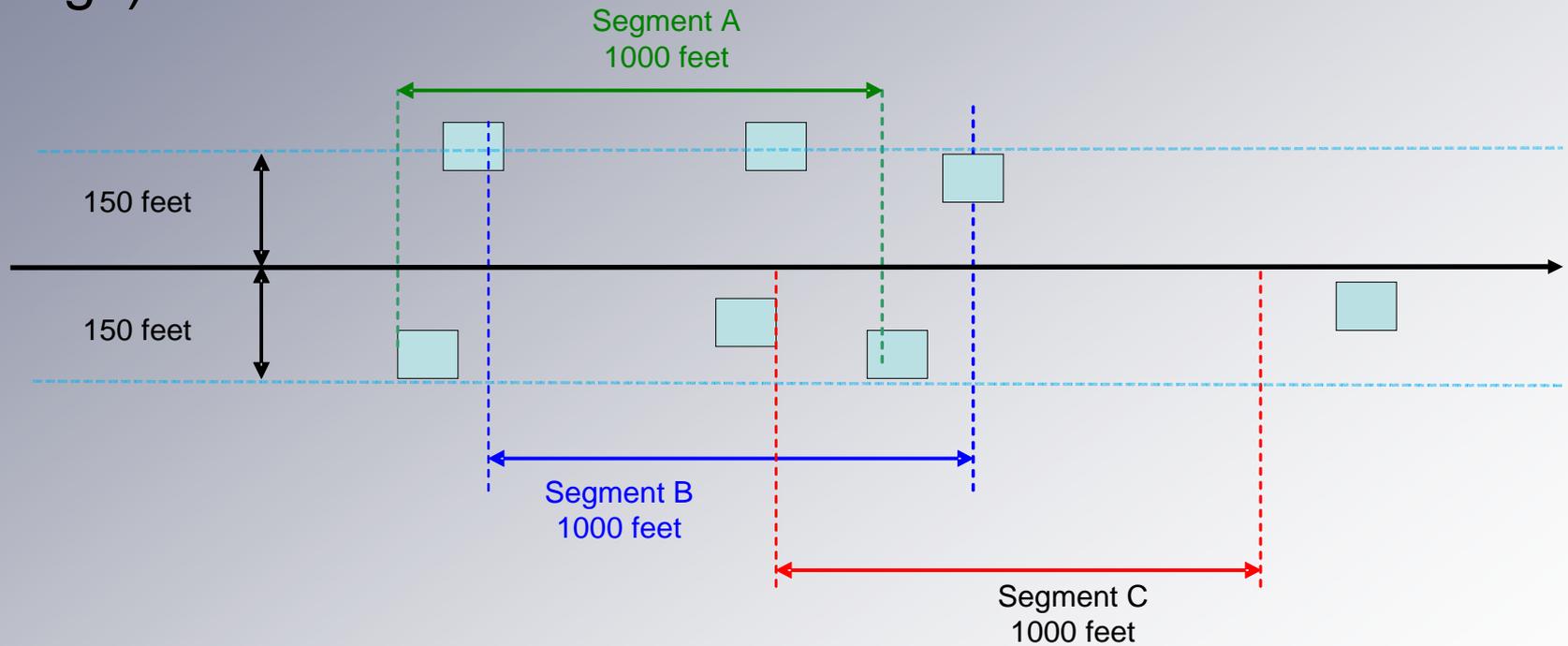


Type B, Class 2, 1000 ft. Application (Area extending 150 ft on each side of any continuous 1000 feet with 5 or more dwellings)



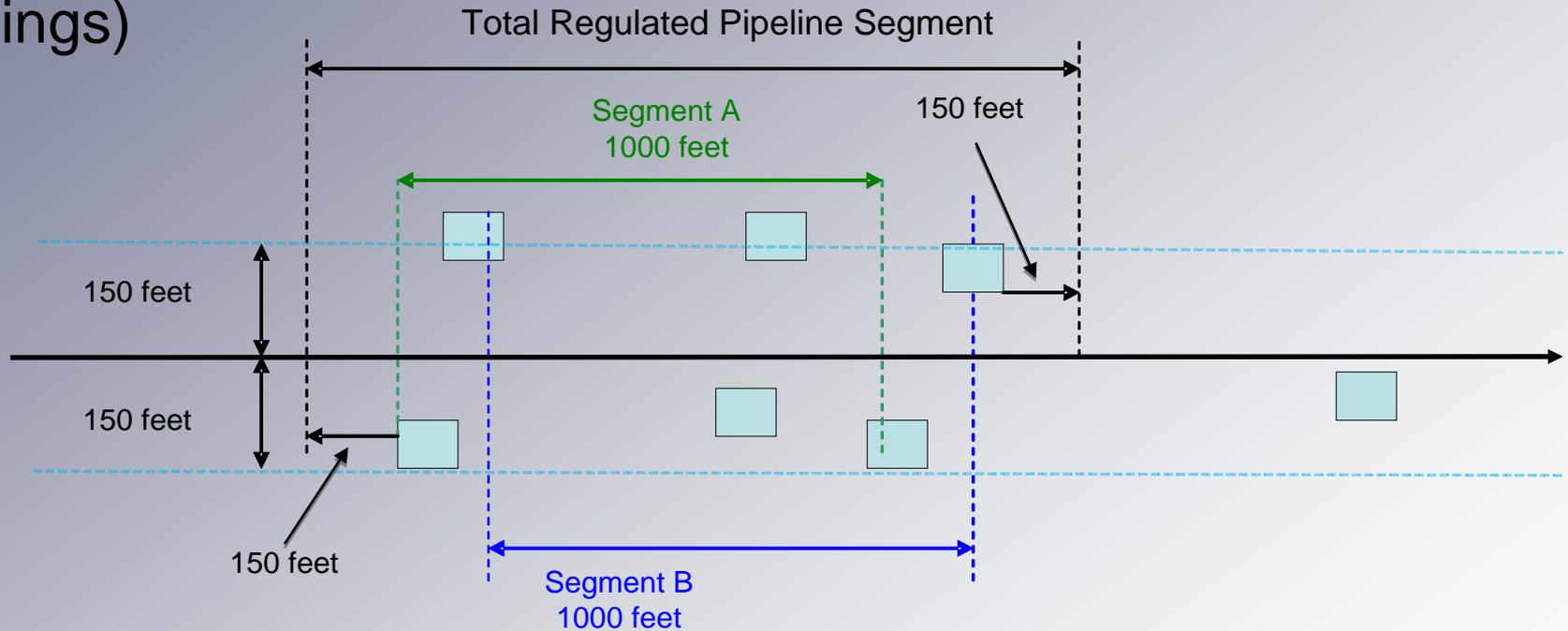


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Type B, Class 2, 1000 ft. Application (Area extending 150 ft on each side of any continuous 1000 feet with 5 or more dwellings)





What are the compliance requirements for each gathering line type (type A and B)?



Compliance Requirements

- **Type “A”**

*(=>20% SMYS or above 125 psi
non-metallic pipe, class
2,3,4 areas)*

**Must meet all
regulatory
requirements for
transmission lines
required by Part
192 except IM and
ILI passage
capability.** (modified
requirements for meeting Operator
Qualification Rule- class 2 only)





Compliance Requirements

- **Type “B” (*<20% SMYS or below 125 psi for non-metallic pipe, class 2, 3, 4 areas*)**
 - Corrosion Control according to Subpart I (If the pipeline is metallic)
 - Damage Prevention Program under §192.614
 - Establish the MAOP of the line under §192.619
 - Line marking for transmission lines in §192.707
 - Public Education Program under §192.616



Compliance Deadlines

- April 14, 2006: Gathering Line Rule
- An operator of a new, replaced, relocated, or otherwise changed line must be in compliance with the applicable requirements of this section by the date the line goes into service...
- If a change in class location or increase in dwelling density causes an gathering line to be a regulated gathering line, the operator has 1 year for Type B lines and 2 years for Type A lines after the line becomes a regulated gathering line to comply.



The importance of gathering line regulations today... and the impact on our future tomorrow.

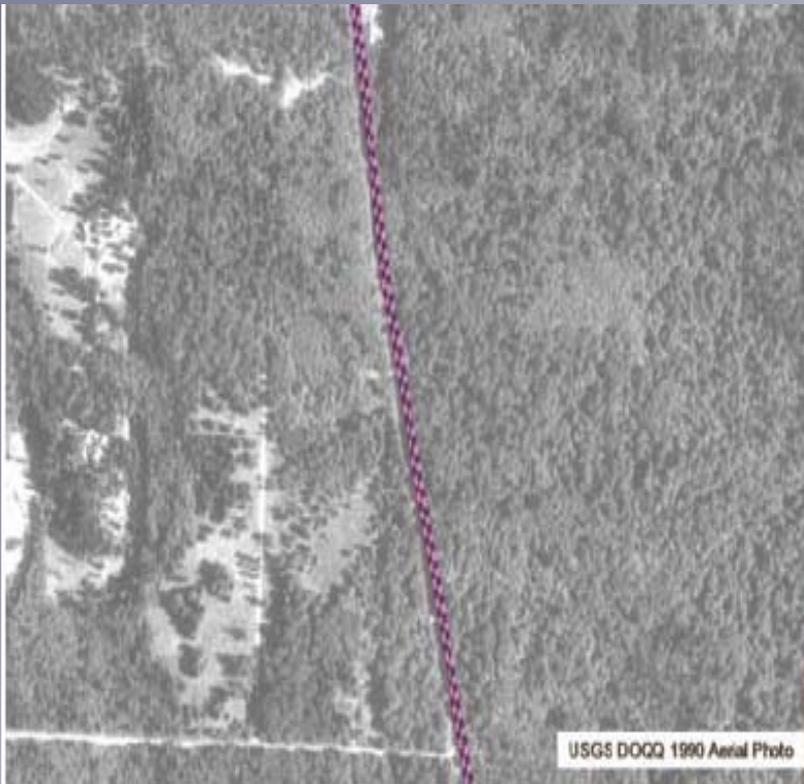


Figure 1 - 1990



Figure 2 - 2002

Illustrated: Growth Along Pipeline in Washington State



Thank You!

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