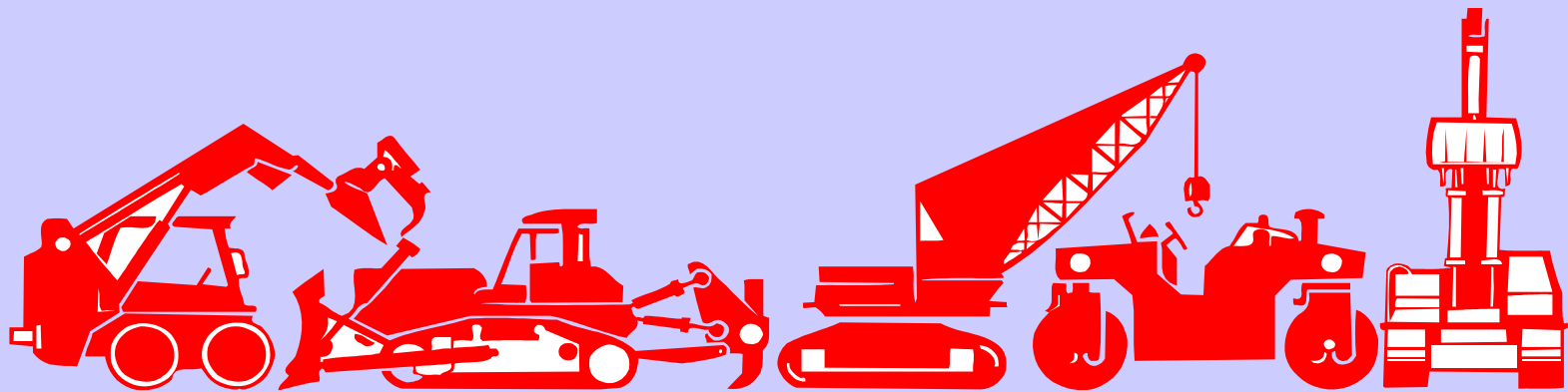


Traditional Methods to Increase Pipeline Operating Capacity

- Increase number or size of pumps
- Add pump stations
- Build new pipelines or loops



Properties of Drag Reducers

- Exhibits drag reduction in hydrocarbon streams
- No adverse effect on down-stream processes or products
- No adverse effect on engine performance, cleanliness, or environmental emissions

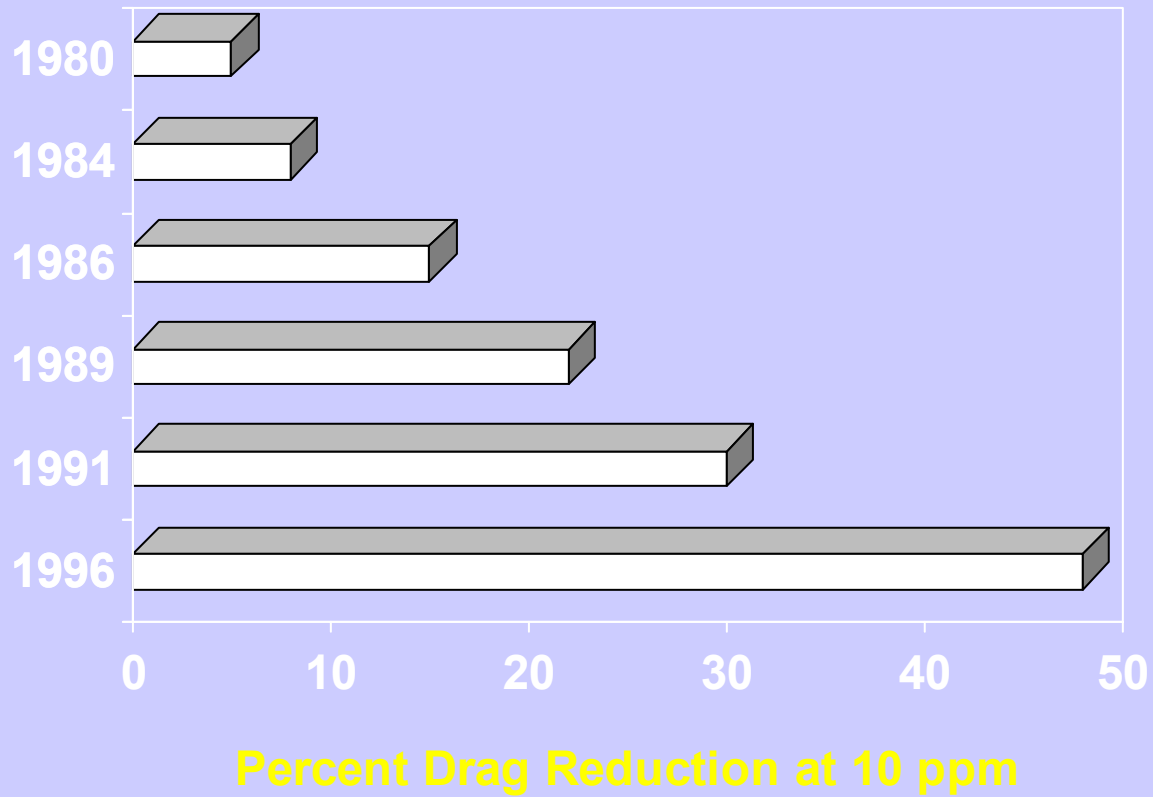
Characteristics of DRA

- Work in turbulent flow only
- Over 70% flow improvement
- Effective at PPM levels
- Shear degraded by mainline pumps
- Multiple injections may be required

What is *FLO* Pipeline Booster?

- *FLO* is a hydrocarbon copolymer dissolved in kerosene, isopentane or glycol carrier
- *FLO* does not coat the pipeline wall
- Sold as 4 1/2% - 30% polymer in solvent
- Indefinite shelf life at 55°C (131°F)
- Different *FLO* products represent different monomer combinations

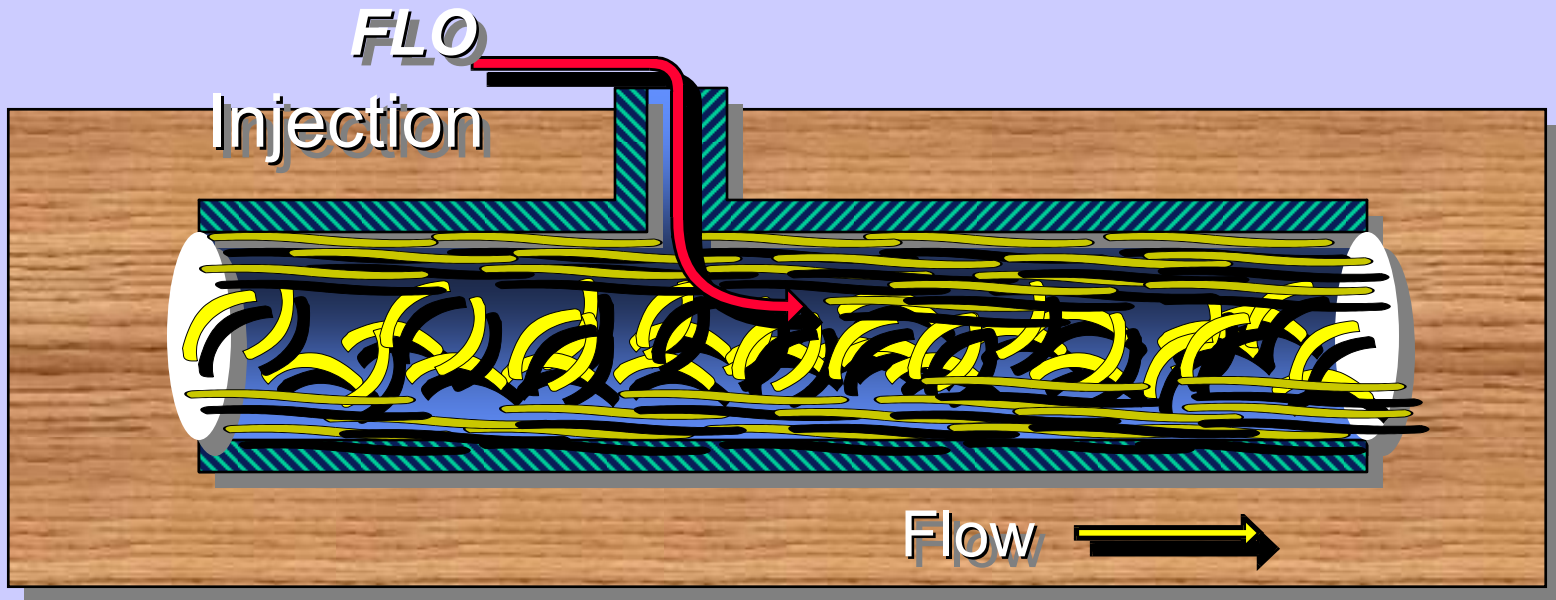
Continued Progress



Crude Quality Assurance

- *FLO* has no effect on :
 - Desalting
 - Foaming
 - Acid Value
- Continuous trouble-free use since 1980

Drag Reduction Phenomenon



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