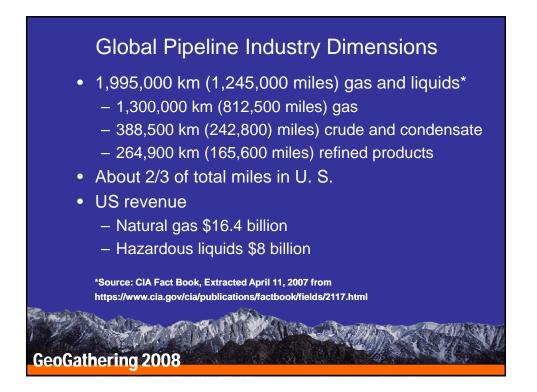


Outline

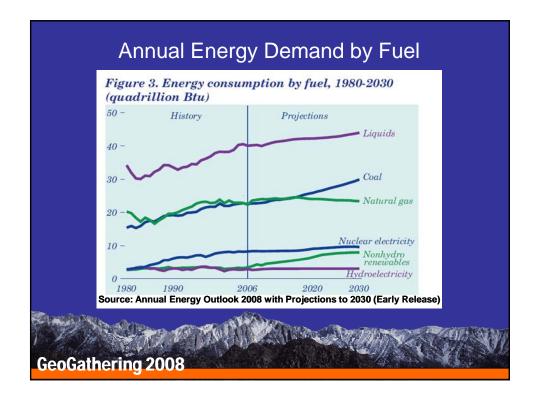
- Past
 - Pipeline accidents
 - Ownership changes
 - Technology advances
 - Regulations
 - Changing supply sources
 - National events
- Present
 - Asset integrity implementation
 - The drive for return
 - Construction boom
 - Changing demographics

Prognostications



Pipeline Company Revenues & Income

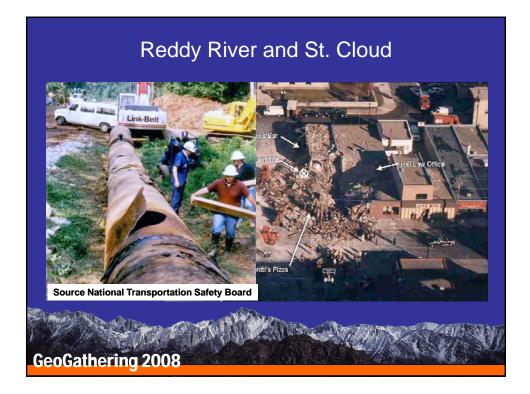
	Gas		Oil	
	Operating revenues, \$1,000	Net income, \$1,000	Operating revenues, \$1,000	Net income \$1,000
1997	16,142,675	2,264,577	7,214,705	2,254,587
1998	13,584,783	3,010,821	6,890,083	2,050,982
1999	14,616,949	2,545,043	7,219,500	2,928,460
2000	14,980,925	2,910,835	7,483,100	2,705,463
2001	14,407,467	2,246,109	7,729,972	3,006,898
2002	14,015,308	2,734,182	7,811,951	3,408,753
2003	15,082,011	3,260,797	7,703,998	3,469,996
2004	15,781,445	3,588,344	8,019,554	3,322,738
2005	16,375,921	3,863,331	7,917,176	3,076,476
2006	\$17,122,586	\$4,015,253	\$8,516,563	\$3,743,115
)4)5	15,781,445 16,375,921	3,588,344 3,863,331 \$4,015,253	8,019,554 7,917,176 \$8,516,563	3,322,7 3,076,4 \$3,743,1





High Profile Pipeline Accidents

- 1992 Seminole Brenham, TX explosion
- 1994 San Jacinto River, Houston, TX release
- 1996 Koch Lively, TX explosion
- 1996 Colonial Reedy River release
- 1998 Northern States Power St Cloud, MN explosion
- 1999 Olympic Bellingham, WA release
- 2000 El Paso Carlsbad, NM explosion
- 2004 National Fuel Dubois, PA explosion
- 2005 PSE&G Bergenfield, New Jersey explosion
- 2006 BP North Slope, AK release









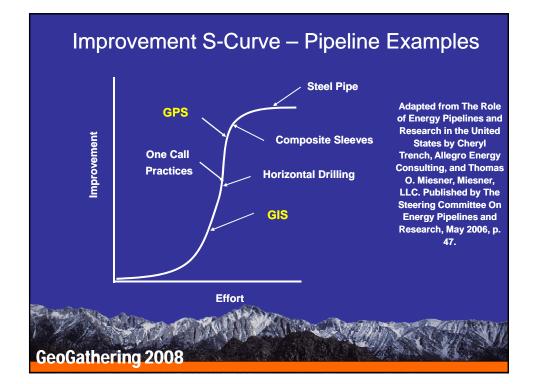


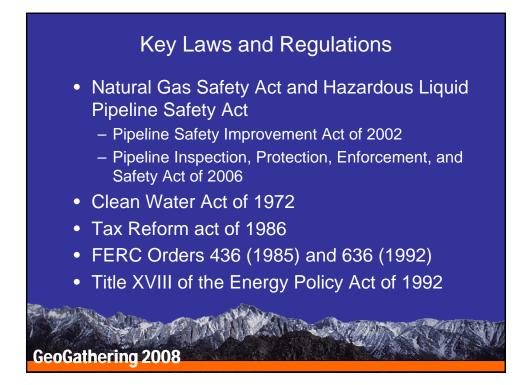


Technology Advances

- Steel
- Welding
- Equipment automation
- Scada
- Leak detection
- Internal Line Inspection
- Hydraulic calculations and power optimization
- GPS
- GIS





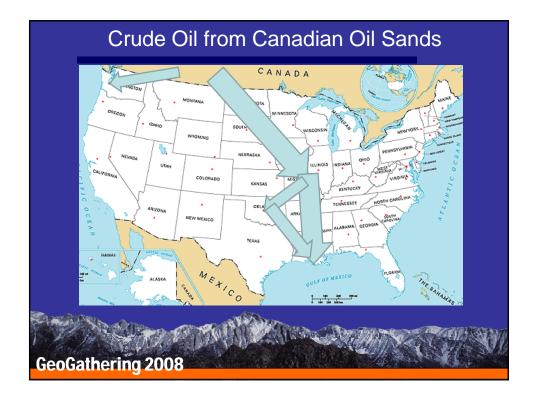


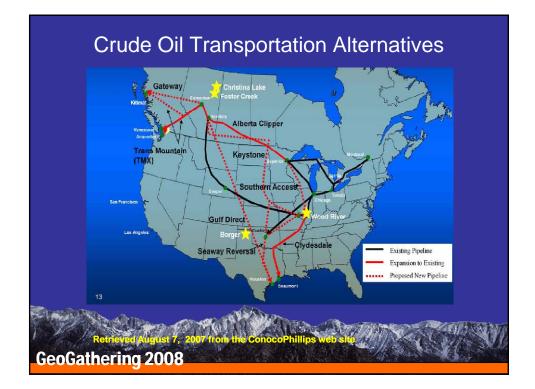


Changing Supply Sources

- Canadian oil sands crude oil
- Rocky Mountain gas
- Increased drilling fueled by energy prices
- Offshore LNG
- Gulf of Mexico crude oil and gas
- Russian crude to Asia Pacific
- Russian gas to Europe
- Asia Pacific infrastructure









National Events

- 9/11
- Hurricanes Rita and Katrina
- Rising prices
- BP woes
- Excavation damage
- Aging work force
- Tight oil prices of the 80s and 90s



Regulatory Driven Challenges

- Operator qualification for covered tasks
- Periodic inspections of lines in HCAs
 - Internal line inspection
 - Hydrotesting
 - Direct assessment
 - Other technologies
- Integrity repairs
- Rising costs for materials and labor
- Gas gathering and low stress rules
- Distribution integrity is just around the corner



Construction Boom

- North America
 - Enbridge
 - Transcanada
 - Rocky Mountain Express (REX)
 - Colonial expansion
 - Alaska gas
- International
 - South and Central America 8,957 miles
 - Western Europe and European Union countries 1,160 miles
 - Middle East 3,941 miles
 - Africa 10,848 miles;
 - FSU and Eastern Europe 15,161 miles;
 - Asia Pacific 13,212 miles P&GJ's Worldwide Pipeline Construction Preview

Other Issues
 Hot job market Movement of personnel New graduation hiring Transfer from other industries
 Engineering and consulting Consolidation Integration along the value chain Independent consultants Independent operators
GeoGathering 2008

Themes for the Future

- Safety
 - Public
 - Employee
- Environmental Performance
 - Water
 - Air
- Reliability
 - Availability
 - Quality
- Efficiency
 - Costs
- Returns



Communication will be Critical

- Public communication and education will increase
 - Evaluating communication effectiveness (API 1162)
 - Understanding community sentiment
 - Gaining local official support
 - Understanding fosters acceptance
- A pipeline is a pipeline
 - Gas
 - Oil
 - Ownership
- The industry must work together to tell the story



Changing Supply and Demand

- · Canadian crude imports will continue
 - Large deposits exist
 - Huge investments are being made
- Refined product movements will be flat
 - Price will stimulate conservation
 - Bio fuels will create niche opportunities
- Gathering, especially gas will continue to grow
 - Increased drilling
 - Gas "requires" gathering by pipeline
- LNG import facilities will be over built

GeoGathering 2008

GeoGathering 200

Operators of the Future

- Sound overall understanding of the industry
- Solid technical understanding
- Comfortable with technology tools
- Excellent project management skills
- High sensitivity to stakeholder needs
- Outstanding ability to understand data
- Effective communication skills

Suppliers of the Future

- Sound overall understanding of the industry
- Excellent technical skills
- Comfortable with technology tools
- Effective project management skills
- Sensitivity to stakeholder needs
- Effective data management skills
- Appreciation for the value of communication



