




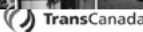

## Keystone Pipeline Project

Kansas Pipeline Safety Seminar  
Salina, KS – Oct. 28, 2010 – Rob Latimer




## About TransCanada

- A leading North American Energy Infrastructure company with 50 years experience
- TransCanada Corporation (TRP) listed NYSE and TSX
- \$40 billion enterprise value
- ~4,000 employees; 1,550 US employees
- TransCanada provides reliable energy supplies
- Millions of North Americans depend on TransCanada

## TransCanada Energy Assets


- More than 40,000 miles of pipelines
- Keystone Pipeline and Keystone XL add 4,000 miles to TransCanada's pipeline network
- 370 BCF of natural gas storage capacity
- 19 power plants comprising 10,900 megawatts – wind, hydropower, nuclear, natural gas



## Why Build Keystone?

Canada has the world's second-largest oil reserves

Canada supplies more oil to the United States than any country



## TransCanada ANR System – KS

### ANR Pipeline in Kansas Natural Gas Transmission

- 742 miles of pipeline along 381 miles of right of way
- 60 year operating history in KS
- Five compressor stations
- Three dozen workers employed
- Operations in Meade, Clark, Comanche, Kiowa, Edwards, Stafford, Reno, Rice, McPherson, Saline, Dickinson, Geary, Riley, Pottawatomie, Jackson, Nemaha and Brown counties.
- More than \$90,000 in charitable contributions since 2008



## Keystone Pipeline System



### Keystone Pipeline

- 2008 – 2009 Construction = 2,148 miles, 30 - inch pipe
- Total Capacity 590,000 bbl/day
- 2010 is Year 3 of a three-year construction schedule

### Keystone XL

- 1,980 miles, 36-inch pipeline
- 500,000 bbl/day
- Regulatory review, environmental studies, routing, public consultation

### Capital Value

- Keystone System: ~\$12 billion



## Keystone in Kansas

### 2009

- Pipeline construction in SD, NE, KS, MO, IL
- Pump station construction
- Easement acquisition in KS and OK
- Place in service to Wood River and Patoka, IL

### 2010

- Pipeline construction
  - Started in mid-May
  - Line fill and commercial operation late 2010 – early 2011
- Pump station construction in KS




## Keystone in KS


- 30" Phase 1 Line – Steel City NE – Patoka IL



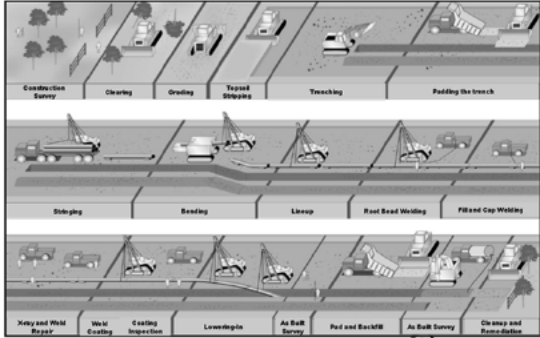
### Keystone in KS



- 36" Phase II - Steele City NE - Cushing, OK
- 4 Pump Stations in KS
- 3 Construction Spreads
- Construction now substantially complete with some remaining work in progress.
- System activated in One Call Oct. 25<sup>th</sup>.
- Staff residing along route of the pipeline for operations.




### Pipeline Construction: An Assembly Line



The diagram shows the following steps in sequence:

- Construction Survey
- Clearing
- Grading
- Segment Shipping
- Trenching
- Padding the trench
- Stringing
- Bending
- Lineup
- Root Bend Welding
- PI Bend Cap Welding
- Heavy and Weld Repair
- Visual Coating
- Coating Inspection
- Leakdetection
- As Built Survey
- Post and Backfill
- As Built Survey
- Commissioning and Handover



### Keystone Operations



Real-time remote control and monitoring of pump stations and mainline valves (SCADA)

24-hour monitoring  
Multiple leak detection systems


Pipeline Integrity Management Program

Damage Prevention Program including participation in state Pipeline Assoc. (KPA) and KS Common Ground Alliance.


Aerial surveillance (26 / year)

### Keystone Operations





- Remotely operated valves connected by satellite telemetry system, supply key data on pipeline flow, pressure, 24 x 7 response via Oil Control Center



### Keystone Commitment

- To design, construct and operate a safe pipeline
- To build and operate in a socially and environmentally responsible manner
- To meet or exceed industry and government standards
- To consult with stakeholders
- To treat landowners with respect and fairness

### TransCanada Expectations for Excavation work on ROW



Preplanning needs to **happen** well before work activity

Locates prior to

TC Keystone Staff **onsite** to witness and observe, **advise**

TC Procedures reviewed and followed (potholing, **separation**)

P.P.E. requirements **followed**

**Everyone goes home safe**



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### Questions?

Thank you!

