



## A Safe, Efficient Energy System

# BP's Empress-Kerrobert Pipeline System

**The Empress-Kerrobert Pipeline System is a safe, reliable 97-mile (155-km) two-pipeline system that transports Natural Gas Liquids (NGLs) such as propane, butane and condensate from the Empress, Alberta extraction facility to Kerrobert, Saskatchewan.**

**The petrochemical industry uses NGLs as feedstock for their products and consumers also use NGLs as an energy source.**

### Pipeline Safety

BP's goal is **"no accidents, no harm to people, and no damage to the environment."** Our Empress Extraction facility uses an internationally recognized environment management system called ISO 14001. This system ensures we consider the environment when we do our everyday work.

Our safety effort began before pipeline installation when we selected high quality, strength-tested steel pipe. After installation and before putting the pipelines into operation, we tested the pipes at a higher pressure than would normally exist in the lines. This told us the pipelines were safe to operate. To minimize impact to agricultural activity and to maximize safety, we installed our pipelines approximately 36-inches (.9-metre) underground.

### Pipeline Maintenance and Monitoring

We have an annual inspection program that ensures the integrity of our pipeline system. This includes cathodic protection, a method that uses weak electric current to help prevent corrosion in the pipeline. We also use sophisticated electronic tools called "smart pigs" that travel inside the pipe. They detect dents, corrosion, metal loss and stress on the pipeline.

Our team regularly patrols the system through low-flying aircraft. Experienced pilots look for signs of leaks or construction activity along the right-of-way that may accidentally cause a leak.

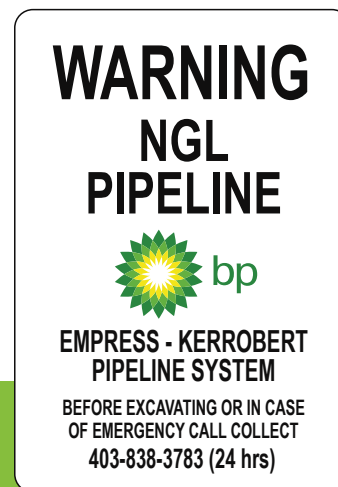
We also depend on our neighbours who live near the pipeline to report on any leaks or activity near the line.

BP monitors the Empress-Kerrobert Pipeline System on a 24-hour basis from a computer-assisted control system located at the Empress Extraction facility. Trained experts look for abnormal changes in line pressure or flow.

Should a leak occur, we send maintenance crews located at strategic points along the pipeline to the leak site. Once we ensure we can protect the safety of our neighbours, employees and contractors, we repair the leak and any damage to surrounding property.

### Pipeline Markers

To ensure everyone knows the location of the Empress-Kerrobert Pipeline System, we place pipeline markers at high traffic areas such as roads and railway crossings. We place them near but not necessarily on top of the pipeline or lines. It is important to remember that the markers may not tell you the exact location, route, depth or number of pipelines.



Pipeline Marker

## Check Before You Dig

If you plan any operations on or near the Empress–Kerrobert System:

1. Identify the precise work location and visit the site. Check records or look for evidence of a pipeline.
2. Call Alberta One-Call @ 1-800-242-3447 or Sask. 1<sup>st</sup> Call @ 1-866-828-4888 two working days prior to the dig. They will locate the line.
3. Call the Empress Extraction Facility and ask us about how to safely do the work and any guidelines we may have.
4. Be on site with us when we locate the line.
5. Hand-expose the pipeline before excavation within 10 feet (three metres) of the pipe.
6. Notify the Empress Extraction Facility one working day before backfilling over the pipe and contact us immediately if you contact the pipe or its coating.

**Call us if you plan any activity near the Empress–Kerrobert Pipeline System.** We will locate the affected line so your work can proceed safely. Our facility's 24-hour emergency number is 403-838-3783. Call collect.

## Leak Detection

### If you smell...

- An odour, similar to gasoline (but stronger), it may be NGLs.

### If you see...

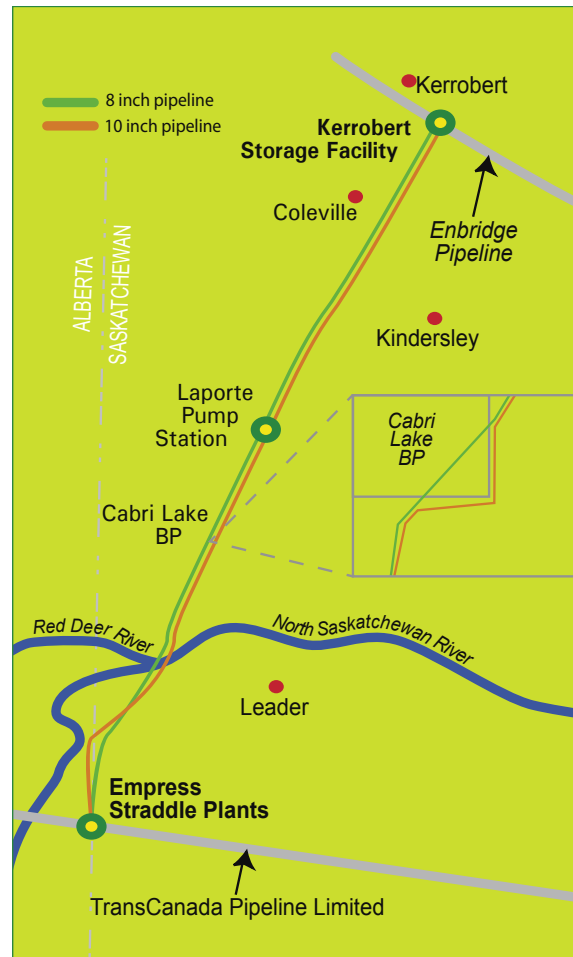
- A vapour cloud or frosted ground along a pipeline, it may be an NGL leak.
- A wet patch of yellowish liquid (like the colour of ginger ale), it may be condensate.
- Obvious damage, fire or an explosion, it may be a pipeline break.

### If you hear...

- A loud hissing or roaring noise, it may mean there is a break in the pipeline.

## What to Do if You Encounter a Leak

- Your first goal is to protect yourself and the safety of those around you.
- Shut off any equipment operating on or near the pipeline.
- Extinguish any tobacco products or any ignited material in the area.
- Shut off cell phones until out of the danger area.
- Walk out of the area immediately and alert others in the immediate area.
- If possible, move to an area that is .5 mile (800 metres) uphill and upwind from the leak.
- As soon as you are safe, call the local police or fire department or emergency response agency.
- **Call BP (collect) at our 24-hour emergency number at 403-838-3783. Give your name and location and describe the leak.**



### The Empress–Kerrobert Pipeline System

#### General Enquiries

#### Empress–Kerrobert Pipeline System

P.O. Box 1150,  
Medicine Hat, Alberta  
T1A 7H3

#### Kerrobert Storage Facility

P.O. Box 296,  
Kerrobert, Saskatchewan  
S0L 1R0

#### Emergency Contact Numbers

Empress–Kerrobert Emergency number  
(403) 838-3783 (24 hrs)

#### Empress Main Switchboard

(403) 838-3733

#### Empress Fax

(403) 838-3919

#### Kerrobert

(306) 834-2421

#### Kerrobert Fax

(306) 834-5158

#### Key Contacts

#### Alan Eggum

#### Empress Plant Manager

(403) 838-4211

#### Alberta One-Call

#### Call Before You Dig

1-800-242-3447

#### Sask. 1<sup>st</sup> Call

#### Call Before You Dig

1-866-828-4888