



Consultation



Move Forward

Work with a local Indigenous group to incorporate traditional knowledge into the project plan.

Move Forward 1 Space



Consultation



Move Forward

A road will be shared with a forestry company to reduce impacts on the environment because fewer roads are built.

Move Forward 2 Spaces



Consultation



Move Forward

Landowners agree to be paid an annual fee to use their land for a drilling site.

Move Forward 2 Spaces



Consultation

COMMUNITY NEWS

Fusce accums curs metus,
rhoneus nulla gravida.

Lower spacio dolor ut sit
consequatur adipiscing eti
Nam eu risus pediculose
necidit enim sitet eti
coquidensse odio. Neque
opticu conque adhuc. Vall
nudicte natus etiam.
Eritus teneat dunc agitare
tunc et vulpem. Poter
quiescere natus. Cras
mollis dede rebus tunc
suppedita sedet utrue
aliqua. Possedit utrue
aliqua. Atque, vulpem
necidit etiam.

Fusce accums curs metus,
rhoneus nulla gravida.
Lower spacio dolor ut sit
consequatur adipiscing eti
Nam eu risus pediculose
necidit enim sitet eti
coquidensse odio. Neque
opticu conque adhuc. Vall
nudicte natus etiam.
Eritus teneat dunc agitare
tunc et vulpem. Poter
quiescere natus. Cras
mollis dede rebus tunc
suppedita sedet utrue
aliqua. Possedit utrue
aliqua. Atque, vulpem
necidit etiam.



Move Forward

Place a notice of the development
in the newspaper to raise
awareness about the project.

Move Forward 1 Space



Consultation



Move Forward

The nearby town is excited
about more local jobs.

Move Forward 1 Space



Consultation



Go Backward

Trappers were not given enough notice to provide input into the project plan.

Go Back 1 Space



Consultation



Go Backward

Watershed groups have objections to the plan because of impacts to water quality.

Go Back 2 Spaces



Consultation



Go Backward

Did not get your approvals from the energy regulator.

Go Back 2 Spaces



Consultation



Miss A Turn

A town hall session raises concerns about impacts to nearby hiking trails.

Miss A Turn



Environmental Assessment



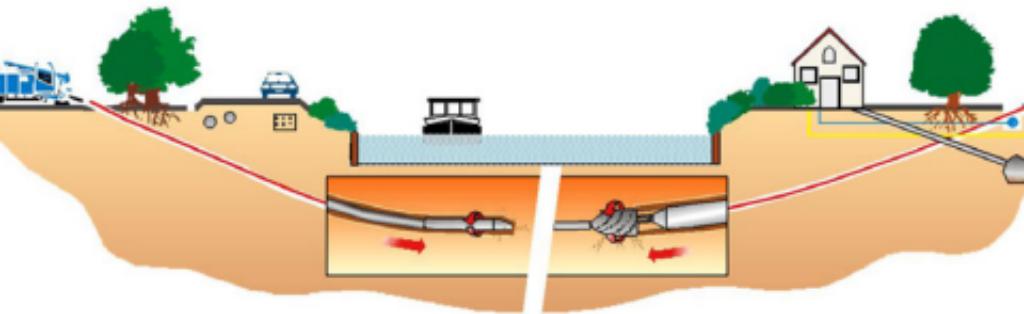
Move Forward

Development will occur in the winter months to protect sensitive wetlands.

Move Forward 2 Spaces



Environmental Assessment



Move Forward

Horizontal directional drilling will be used to avoid crossing a stream.

Move Forward 2 Spaces



Environmental Assessment



Move Forward

A local monitoring station collects air quality data, including pollutants and greenhouse gas levels.

Move Forward 1 Space



Environmental Assessment



Move Forward

Research shows that bird deterrents, like scarecrows, can prevent birds from landing on oil sands tailings ponds.

Move Forward 1 Space



Environmental Assessment



Move Forward

Fencing will be put up to keep grizzly bears out of the project site for the safety of the bears and the workers.

Move Forward 1 Space



Environmental Assessment



Go Backward

The project goes through caribou habitat. Caribou are a species at risk.

Go Back 2 Spaces



Environmental Assessment



Go Backward

Plant surveys show that there are rare plants and old growth forest on the development site.

Go Back 1 Space



Environmental Assessment



Miss A Turn

Soil tests show sensitive areas.
Need to order rig mats so equipment
does not damage the soil.

Miss A Turn



Environmental Assessment



Miss A Turn

The project will cross a stream where fish lay their eggs. The project must be delayed until after the fish spawn.

Miss a Turn



Environmental Assessment



Miss A Turn

A historical search reveals a site that is important to First Nations culture so plans must change to avoid that area.

Miss A Turn



Resource Extraction



Move Forward

New technology uses less water in oil sands extraction.

Move Forward 2 Spaces



Resource Extraction



Move Forward

A job fair brings in new employees.

Move Forward 1 Space



Resource Extraction



Move Forward

Receive an award for workplace safety.

Move Forward 2 Spaces



Resource Extraction



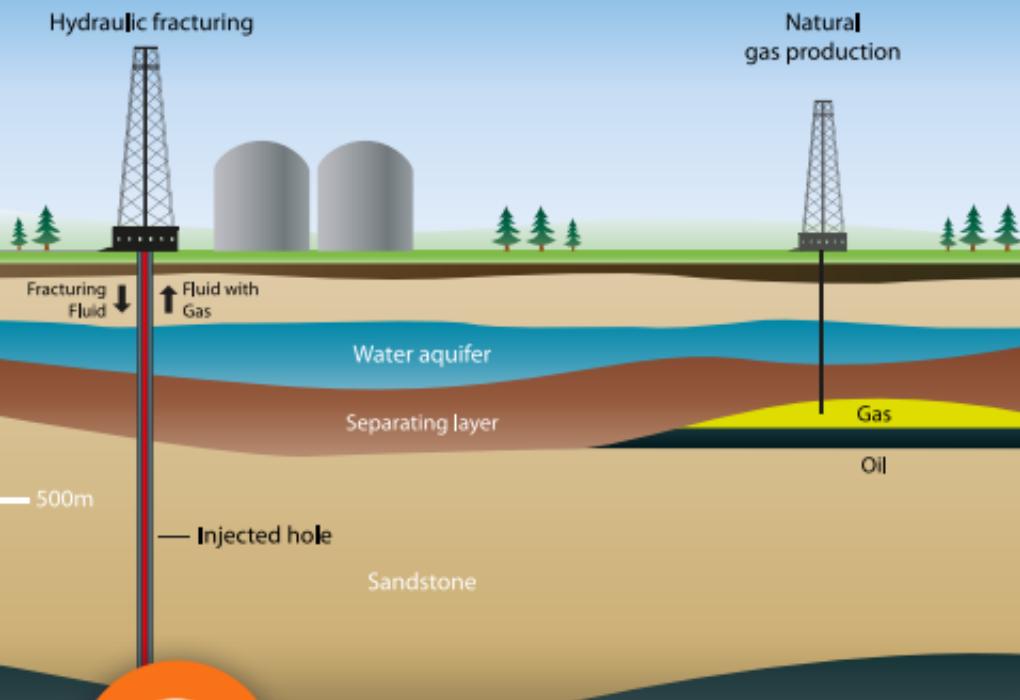
Move Forward

Company invests in new technology to reach deep oil reserves.

Move Forward 1 Space



Resource Extraction



Move Forward

Natural gas can be extracted by opening cracks below the earth's surface. This is called hydraulic fracturing.

Move Forward 1 Space



Resource Extraction



Move Forward

Fund a youth education grant for students in the community.

Move Forward 1 Space



Resource Extraction



Go Backward

Greenhouse gas emissions are higher than allowed.

Go Back 1 Space



Resource Extraction



Go Backward

Nearby community complains about increased heavy truck traffic.

Go Back 1 Space



Resource Extraction



Go Backward

The price of oil drops and drilling operations are reduced.

Go Back 2 Spaces



Resource Extraction



Go Backward

Seismic lines and well sites break up the forest impacting animal habitat.

Go Back 2 Spaces



Resource Extraction



Miss A Turn

A wildfire is approaching your site.
Evacuate the area.

Miss A Turn



Transportation



Move Forward

The pipeline operates with no leaks or issues.

Move Forward 2 Spaces



Transportation



Move Forward

Crude oil from Alberta's oil sands is transported to refineries in the US and Canada, adding money to our economy.

Move Forward 2 Spaces



Transportation



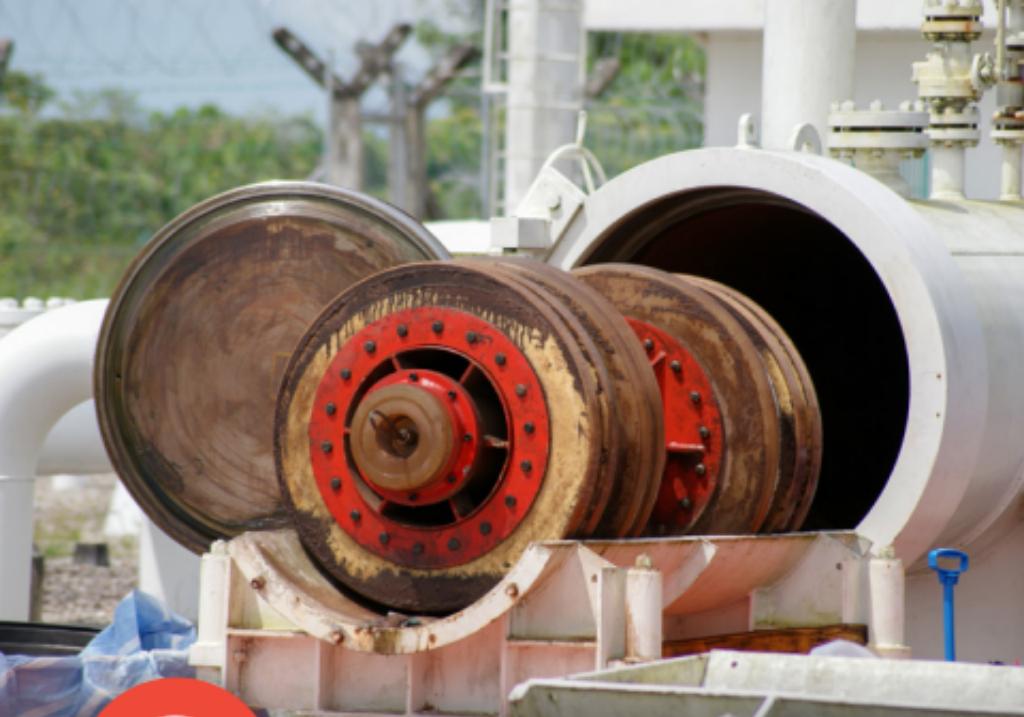
Move Forward

Natural gas is moved thousands of kilometres to meet the needs of homes across North America.

Move Forward 2 Spaces



Transportation



Move Forward

Use a pipeline 'pig' with wire brushes to clean out your pipeline.

Move Forward 1 Space



Transportation



Move Forward

Canada has a rail (*train*) system that crosses the whole country. Oil can be shipped from coast to coast.

Move Forward 1 Space



Transportation



Move Forward

Oil (*bitumen*) from the oil sands is as hard as a hockey puck! It is mixed with a chemical so it can be shipped in pipelines.

Move Forward 1 Space



Transportation



Go Backward

A Smart Ball detects a problem in the pressure level within the pipeline. That means there is a leak.

Go Back 2 Spaces



Transportation



Go Backward

The Canada Energy Regulator finds lines that aren't labelled properly.

Go Back 1 Space



Transportation



Go Backward

A landowner hits a pipeline while digging, causing damage to the line.

Go Back 1 Space



Transportation



Miss A Turn

A dent in the pipeline causes
a pipeline 'pig' to get stuck.
Operations must shut down for a week.

Miss A Turn



Reclamation & Monitoring



Move Forward

The migratory songbird population is growing in the area because of your efforts to maintain their habitat.

Move Forward 2 Spaces



Reclamation & Monitoring



Move Forward

The soil is put back and you plant new vegetation where it was removed to build the pipeline.

Move Forward 2 Spaces



Reclamation & Monitoring



Move Forward

There are two Carbon Capture & Storage (CCS) projects operating in Alberta. Carbon dioxide (CO_2) is sent deep underground to reduce greenhouse gases in the atmosphere.

Move Forward 2 Spaces



Reclamation & Monitoring



Move Forward

A tree planting program plants new trees on abandoned well sites, restoring habitat and absorbing carbon dioxide from the atmosphere.

Move Forward 2 Spaces



Reclamation & Monitoring



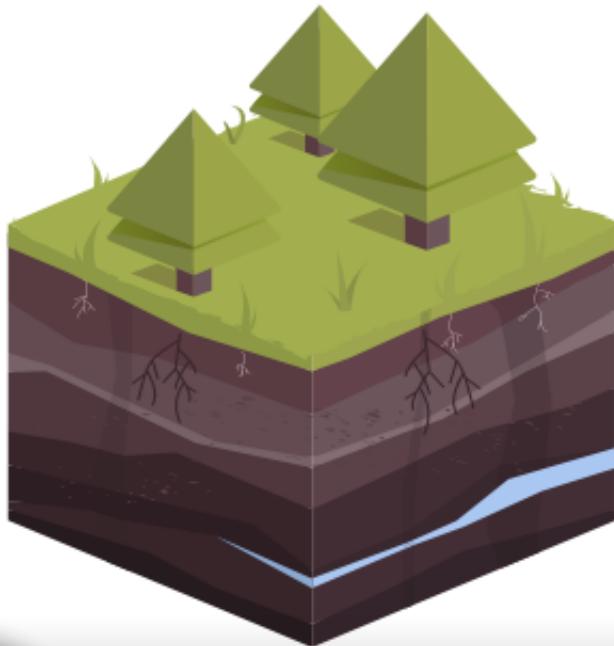
Move Forward

The company meets the legal requirement to reclaim the land once the site is no longer in use.

Move Forward 1 Space



Reclamation & Monitoring



Move Forward

Operations need water but you stay below your fresh water limits for the year by using deep groundwater that can't be used for other purposes.

Move Forward 1 Space



Reclamation & Monitoring



Move Forward

The Athabasca River is monitored by the Alberta Government to make sure the oil and gas operations aren't impacting Alberta's fresh water supply.

Move Forward 1 Space



Reclamation & Monitoring



Go Backward

Soil tests show contamination and you need to spend time and money to clean it up.

Go Back 1 Space



Reclamation & Monitoring



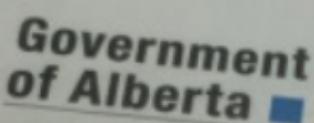
Go Backward

A farmer complains that their land is too dry where the pipeline runs underground. Workers must go to the farm to repair the damage.

Go Back 1 Space



Reclamation & Monitoring



Wellsite Reclamation Certificate Application Form
2010 Reclamation Criteria for Wellsites and Associated Facilities

1.0 GENERAL INFORMATION

1.1 Company Information

Applicant Full Name*

All Company Name that will appear on reclamation certificate

Fee Type: Conservation Board Information



Go Backward

While your reclamation project is going well, it has not been given a 'Reclamation Certificate' by the Alberta Government. You still have more work to do.

Go Back 2 Spaces



Reclamation & Monitoring



Go Backward

An access road remains open allowing public to access remote areas increasing human impact.

Go Back 2 Spaces



Processing



Move Forward

At a refinery, oil can be turned into gasoline. Gasoline is used to fuel cars.

Move Forward 2 Spaces



Processing



Move Forward

At a refinery, oil can be turned
into jet fuel (*kerosene*).
Jet fuel powers airplanes.

Move Forward 2 Spaces



Processing



Move Forward

Natural gas is used in most Canadian houses for furnaces and hot water tanks.

Move Forward 2 Spaces



Processing



Move Forward

Natural gas is used to generate electricity.

Move Forward 2 Spaces



Processing



Move Forward

At a refinery, oil can be turned into asphalt. Asphalt can be used to build roads.

Move Forward 1 Space



Processing



Move Forward

Oil and natural gas can be used to make plastic products such as water bottles, bags, and clothing.

Move Forward 1 Space



Processing



Move Forward

At a refinery, oil can be turned into diesel to fuel buses, large trucks and equipment.

Move Forward 1 Space



Processing



Go Backward

The oil refinery has a release of methane that results in excessive flaring.

Go Back 2 Spaces



Processing



Go Backward

The refinery's air quality monitoring program detects bad-smelling emissions.

Go Back 2 Spaces



Processing



Go Backward

About 40% of bitumen from the oil sands must be upgraded before it can be sold to refineries.

Go Back 1 Space



Processing



Miss A Turn

Hydrogen sulfide (H₂S), a harmful gas, is detected on site. Shut down for a valve repair.

Miss A Turn