

# **Deconstruction and Reconstruction Exercise**

## **In a Nutshell - Kurzgesagt Fracking Explained**

### **Questions answered in the video**

1. Why do we frack?

Cost and decline in resources

2. How does it work?

Water, chemicals, and sand is pressured into the porous shale rock that has traces of oil and gas left in it. Not in pools like originally drilled for.

3. What are the risks to fracking? This is the debatable question.

The thesis is:

There are risks and rewards to the process of fracking, the risks are contaminating water, the chemicals are dangerous and undeclared, greenhouse gases are released in the process, the process requires a large energy input, and more many new fracking holes although many others contend that in the intermediate term the energy produced by the process is low cost in relation to other energy sources there are no long term studies that show the process is hazardous to humans or the environment.

#### **Reason #1**

Contaminating water

#### **Example #1**

Chemicals cannot be cleaned

#### **Example #2**

Sources contaminated already

#### **Reason #2**

Chemicals used are dangerous

#### **Example #1**

700 different chemicals

#### **Example #2**

No precise definition of the chemicals used

#### **Reason #3**

Greenhouse gases are released in the process

### **Example #1**

3% of the gas escape into the atmosphere

### **Reason #4**

Process requires a lot of energy

### **Example #1**

None

### **Reason #5**

More fracking holes drilled

### **Example #1**

None

## **Counter argument**

### **Reason #1**

In the intermediate term it is low cost energy

### **Example #1**

None

### **Reason #2**

No long term studies show it is dangerous

### **Example #1**

None

## **Raven Exercise**

**Reputation** – Reviewed by imbd as a director / numerous videos on creditable sites with multiple hits

**Ability to See (trusted)** – none of the major contributors listed on the site are scientists

**Vested Interest** – no vested interest could be found / no political statements say they write about interesting things

**Expertise** – no specialized knowledge except animation to catch your attention

**Neutrality** – cannot find anything regarding this issue

## **Validity Statement:**

**Although material can be confirmed by other experts and the material was clearly created, short, and interesting the site offered no expertise on the subject and no references were given or biographies of the authors were offered.**

**References citation:**

Fracking Explained. (2013, September). Retrieved August 1, 2015, from  
<http://www.youtube.com/watch?v=Uti2niW2BRA>

**Annotated citation:**

Fracking Explained. (2013, September 27). Retrieved August 6, 2015, from  
<http://www.youtube.com/watch?v=Uti2niW2BRA>

A German based animation video site. Short, clear, interesting, and two sided. No expertise in science or fracking. No point of view expressed on website. Found also on YouTube.

**In body citation:**

("Fracking Explained")  
or  
("Fracking Explained", 2013)