

# The Shale Gas Shock

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# The problems considered in the paper

- Depletion of conventional resources
- High prices on oil, gas and coal
- Economical problems
- Ecological problems
- New unconventional resources
- Political disagreements

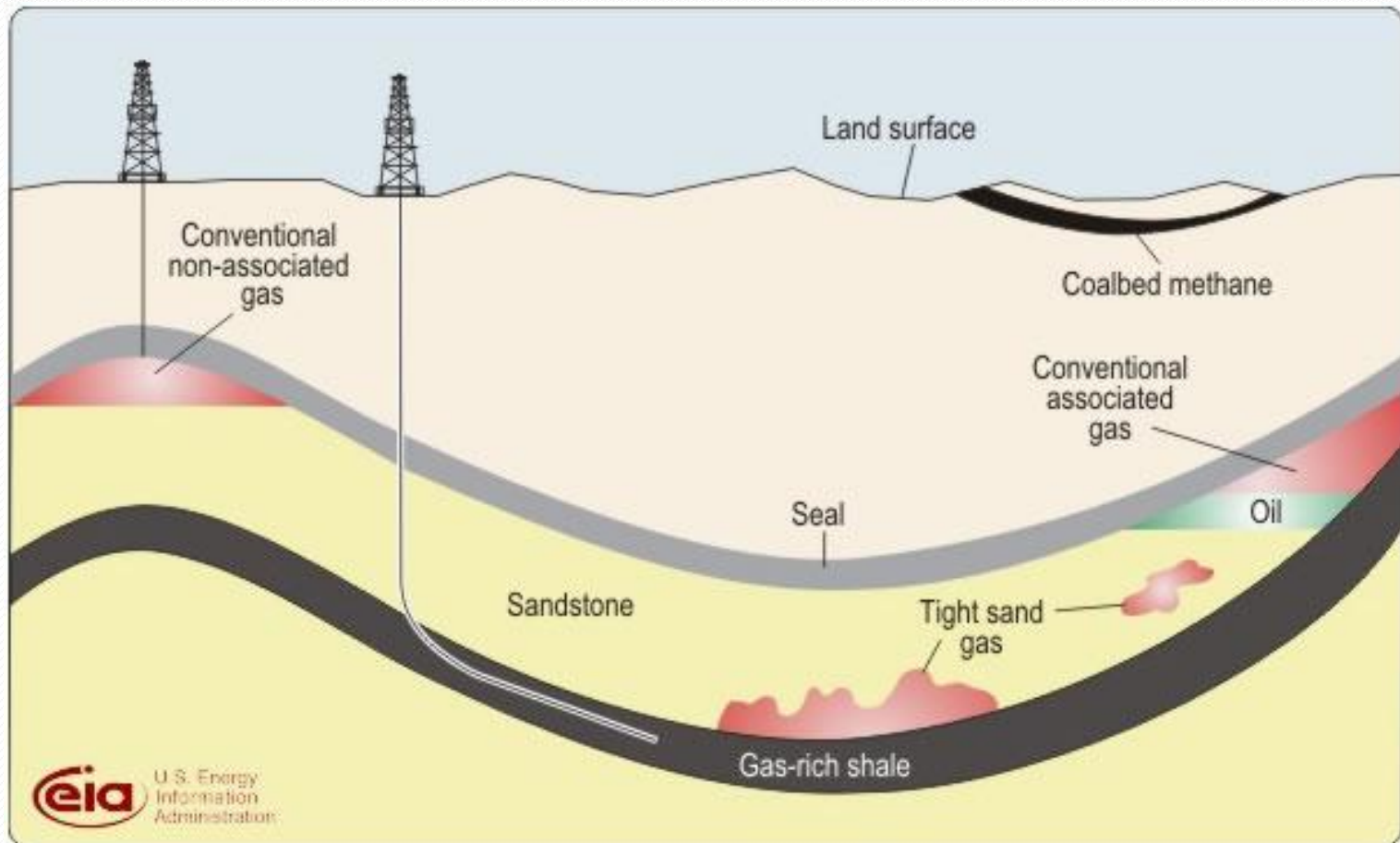
# What the shale gas is?



# The advantages of shale gas

- Low price
- New technology
- Environmental friendliness
- Widely occurring
- Predictability
- High quality feedstock and fertiliser
- Low greenhouse gas emissions
- Help for decarbonisation

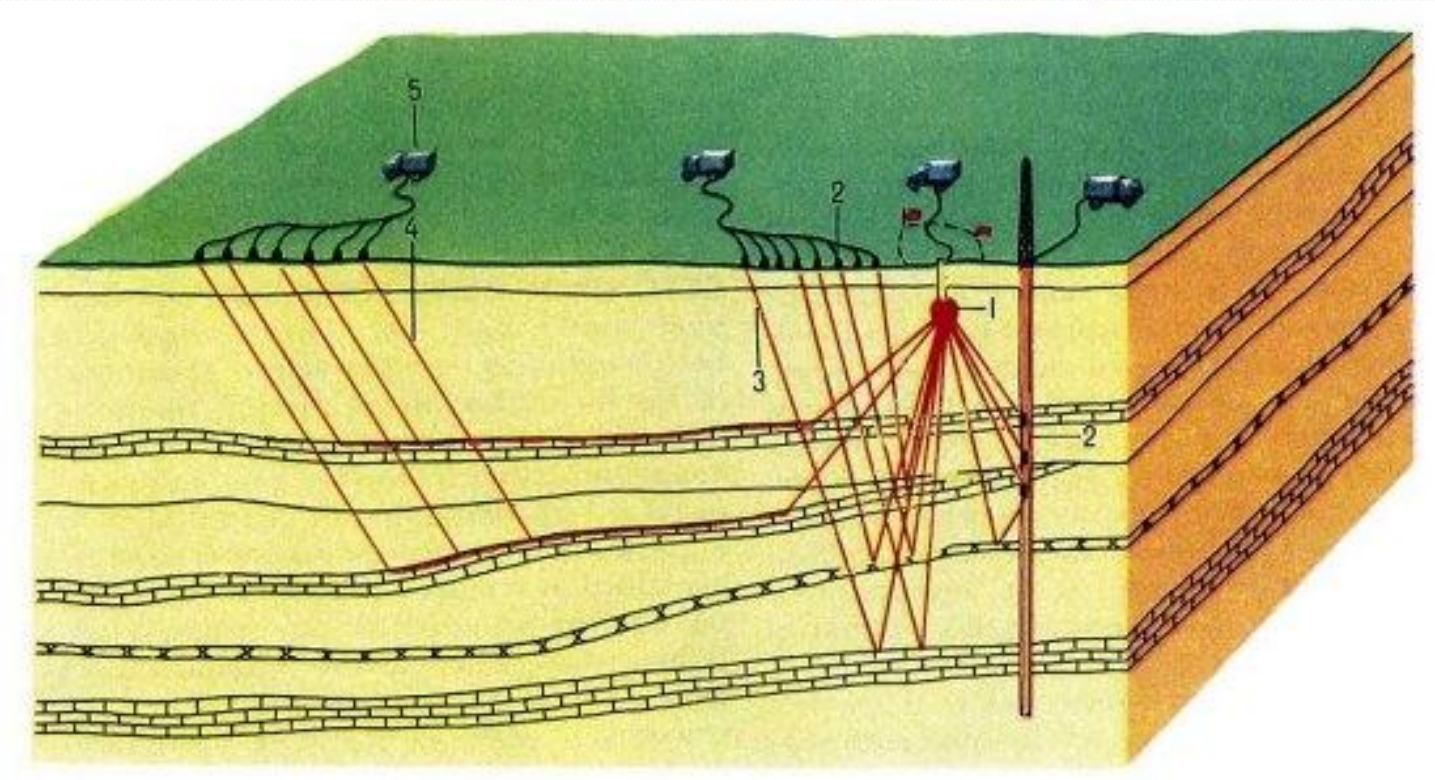
# Conventional and unconventional resources in geology



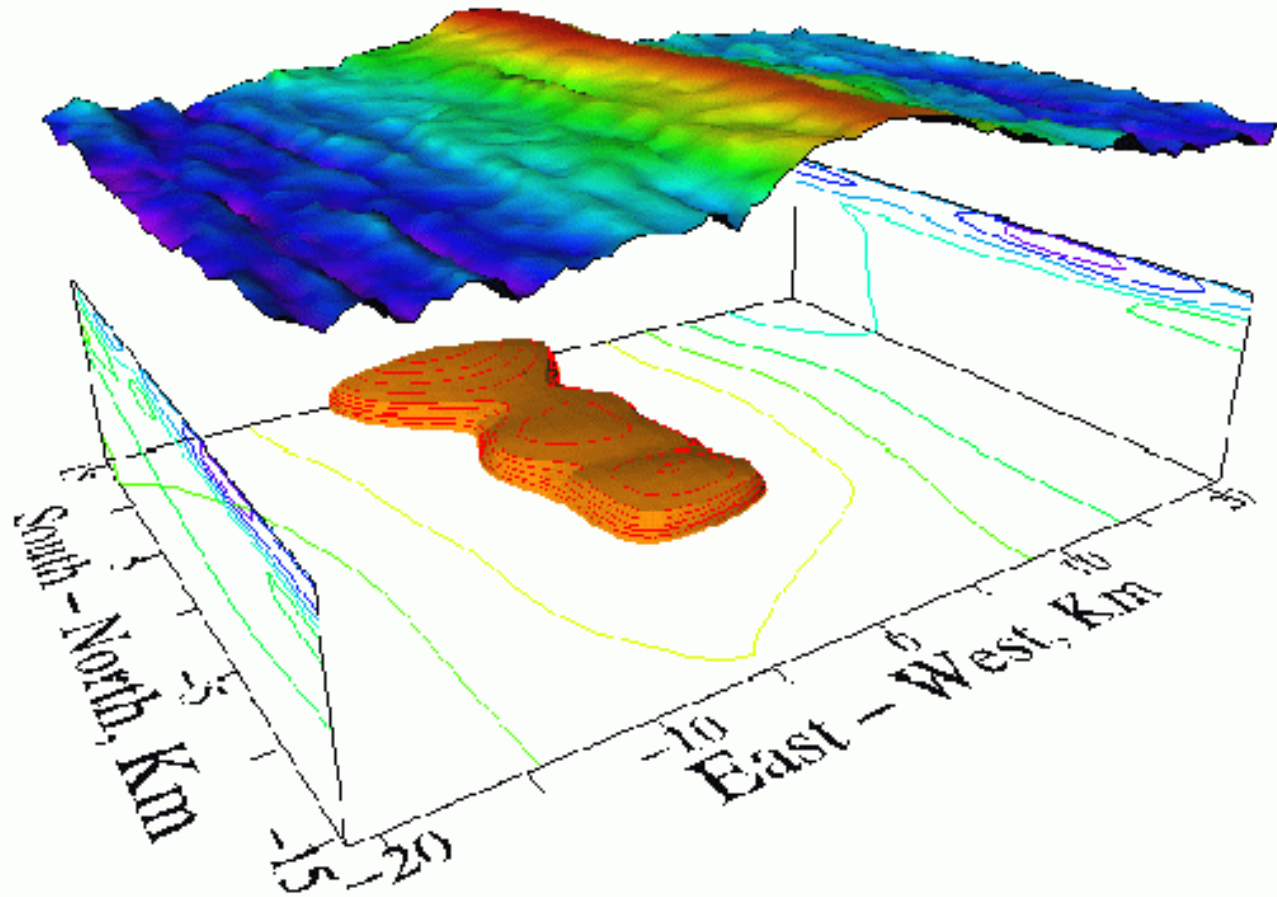


# The shale gas production technology

- Exploration



# The result of exploration

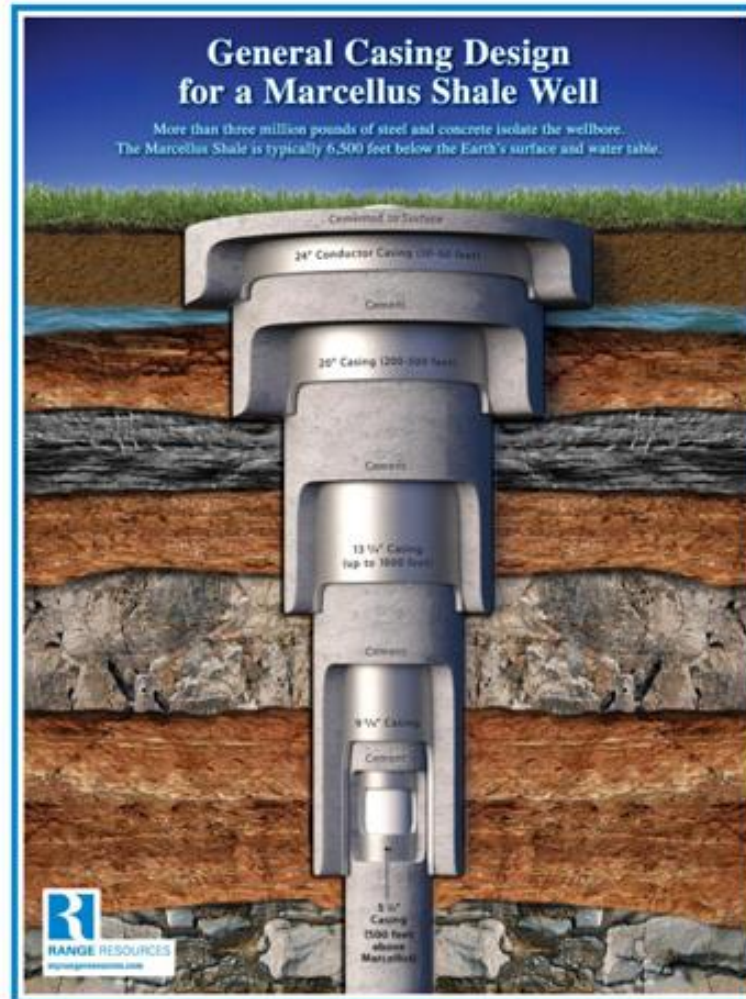


# The shale gas drilling

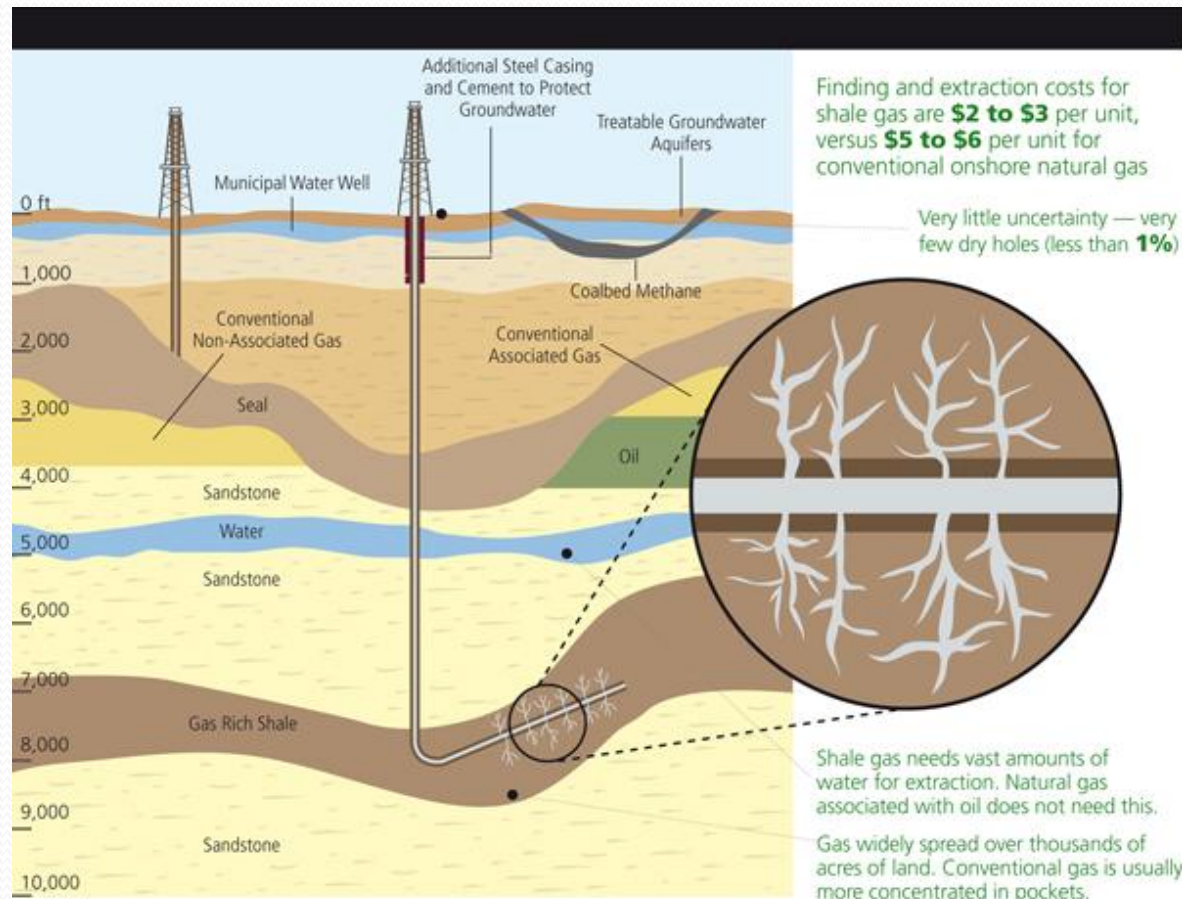




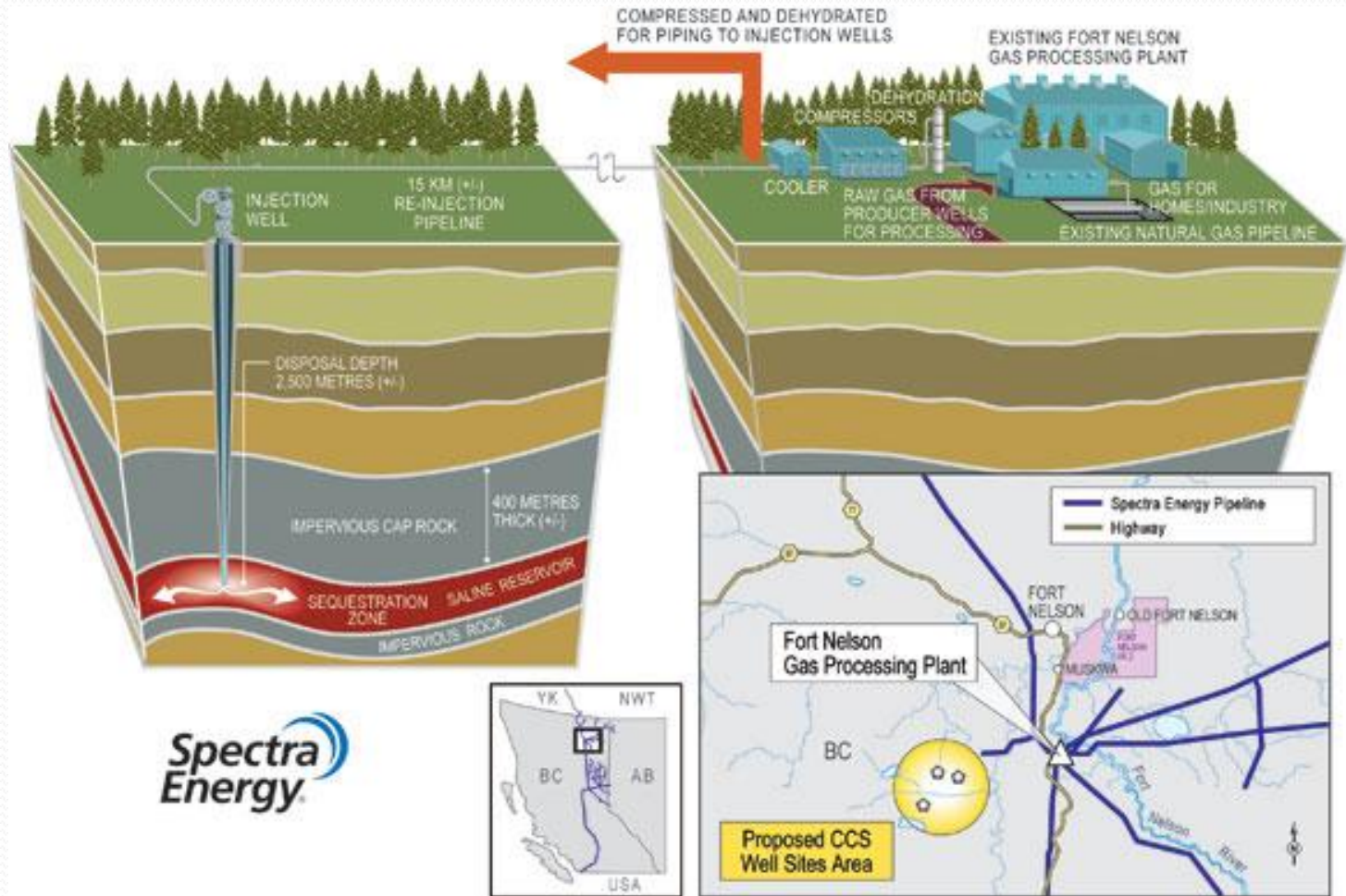
# Borehole casing



# The shale gas extraction



# The shale gas transport




# Shale gas versus other energy sources

- coal
- oil
- nuclear
- wind
- solar
- biomass

# Final conclusions

- shale gas resources are large
- shale gas is likely to occur abundantly worldwide
- shale gas is not just extra gas, it is potentially predictable, low-risk gas
- gas contamination of aquifers occurs naturally and has not usually been found to result from shale gas production
- shale gas can be extracted from a populated and attractive landscape with far more limited impact than other forms of energy
- shale gas is inexpensive and its price advantage
- may widen



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- **electricity generated using gas is cheaper, cleaner, more environmentally beneficial and more humane than electricity from coal, oil, nuclear, wind, solar and biomass**
  - **shale gas has reduced the risk of a fertiliser crisis**
  - **shale gas may reduce price volatility in gas**
  - **shale gas promises to bring environmental, economic and political benefits**

# Translation problems

- new technology
- scientific style
- terms of all profile disciplines (from geology to economy)
- complex sentences with heavy construction

# Examples

- I had to use all definitions of parenthetical words (None the less - как бы то ни было, нисколько не меньше, тем не менее, все же)
- I needed to understand the meaning of all terms (Market share, Speculative bubble, Unit cost, 'Christmas tree', gas 'show', 'slick' water)
- I need to be familiar with my industry and others to translate properly (There were a lot of situations, which are unknown to common students)
- It was difficult to convert units of measurement (feet to m, acres to ha, Tcf to cubic meters, btu to Dj, and etc.)
- There were a lot of institution names (The International Energy Agency, Penn StateUniversity)



Thank you for your  
attention!