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WHEN IT'S NOT JUST A JOB

New technology of oil
production recovery

INNOVATIVE METHOD OF EXTRACTION OIL FROM THE ABANDONED OIL BLOCKS / WELLS

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ON BEHALF OF INVENTOR MR.
IURI DERGUNOV



Challenges

- Hydrocarbon production is growing every year.
- In this regard, serious problems with the operation of oil and gas wells are accumulating.
- The problem of the water cut increase remains vital. A lot of oil and gas wells becomes abandoned.



Description of Invention

Polymers:

- Relevant components
- Proportionality
- Chemical characteristics



Description of invention – minimum investment

- No large financial cost
- The cost reduced significantly.
- Time for preparation/implementation of technology- not take long
- Renovation/Usability- restore the production of oil close to the initial one (75% of exploitation-guarantee for an initial stage).
- Cost price decrease- renouncing the expensive technologies



Description of Invention- Background

- Western Siberia oil wells exploitation
- The Institute of Petroleum Chemistry, Siberian Division of the Russian Academy of Sciences
- the Lavrentyev Institute of Hydrodynamics, Siberian Branch of the Russian Academy of Sciences
- The oil producing company "Tatneft"



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Evaluation of well production

Defines:

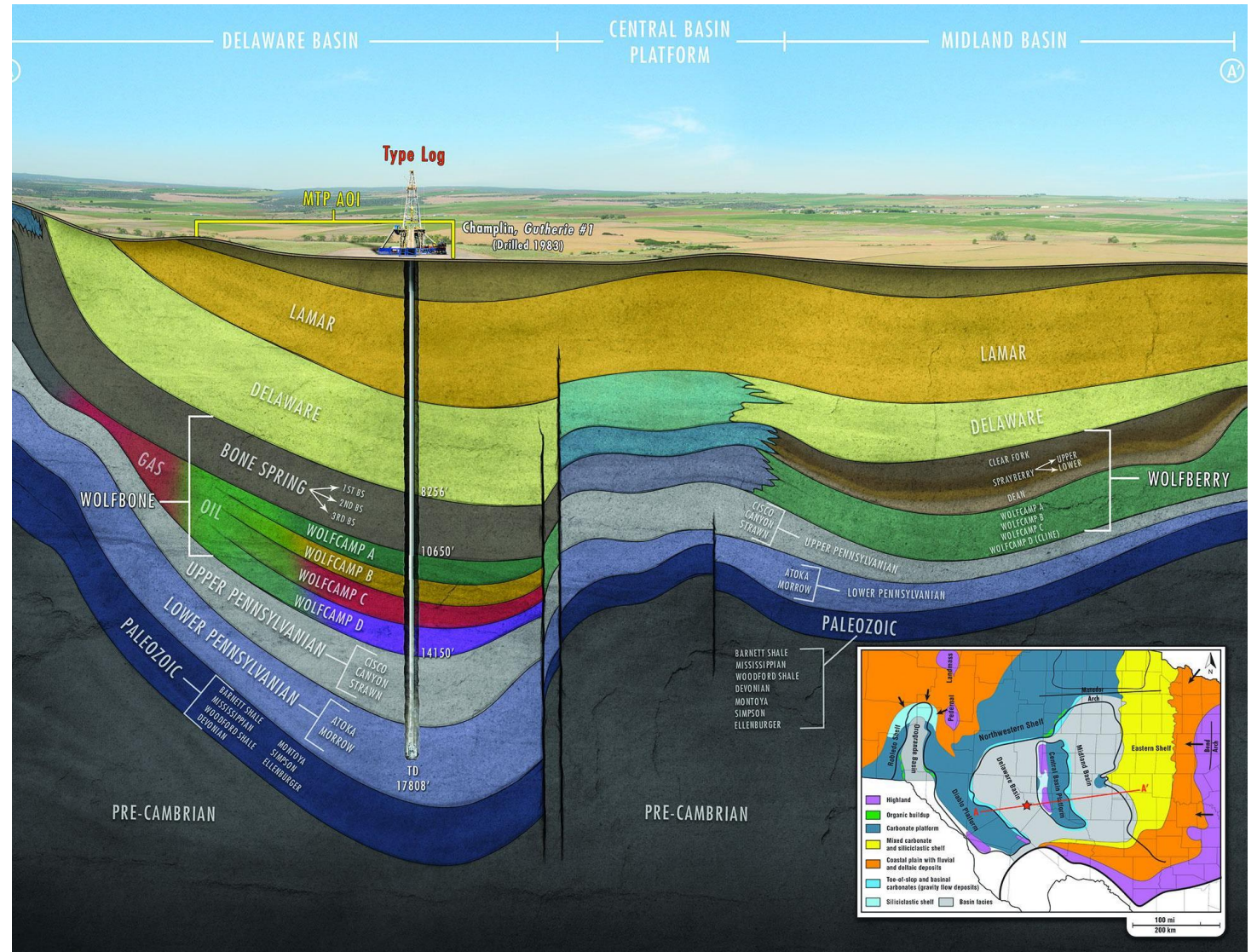
- A) the well construction: the casing diameter, bottomhole depth, casing perforation interval
- b) the percentage of separated oil from the drained stock
- KPI- for assess the technology potential



Studying the lithology of the bottom whole zone

- Consideration of the following indicators:

- The thickness and composition of the reservoir,
 - The coefficient of porosity,
 - Reservoir pressure,
 - The fluid temperature at the bottom,
 - The viscosity of oil and formation water,
 - The water-oil contact level
- These indicators are necessary for polymer solution parameters calculating.



Polymer selection

- Polymer's election- the most important stages.
- A large number of different types of polymers- to choose the one with all the factors of the bottomhole well zone.



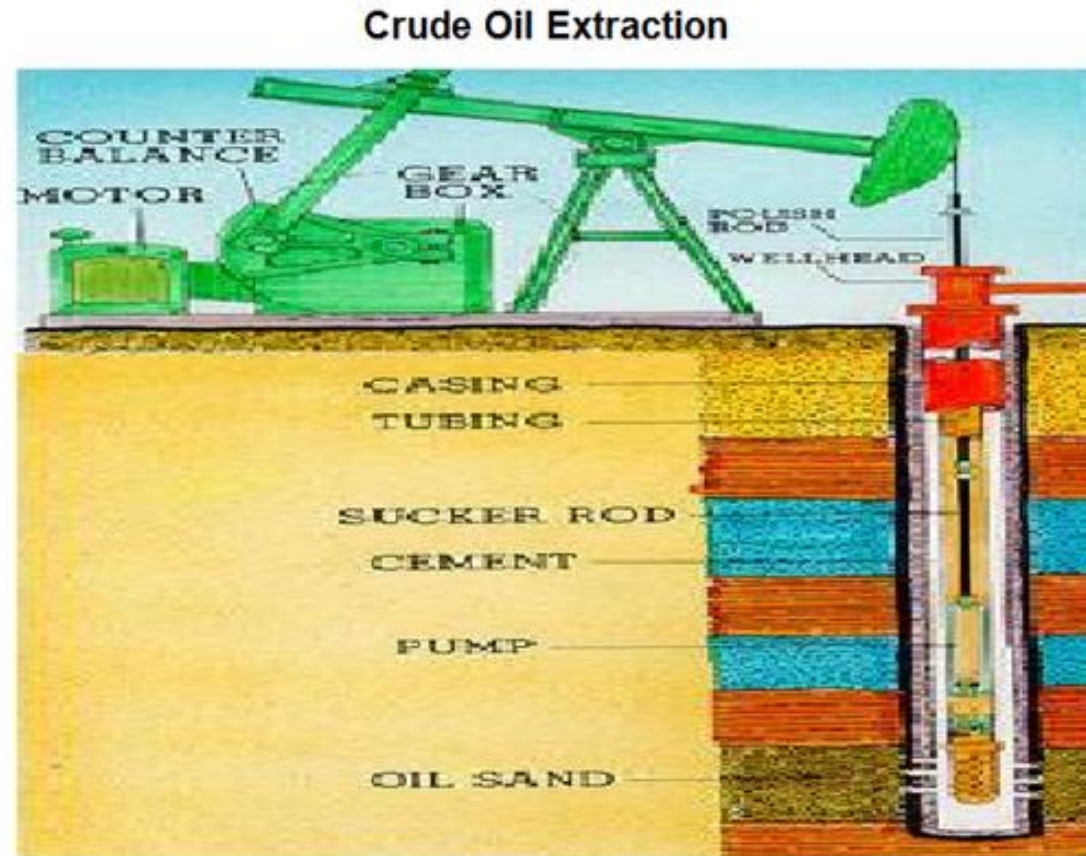
Geological and Technical measures

- Geological conditions
- Inflow of a solution into the bottomhole zone
- Water polymer solution physical change
- Well commissioning



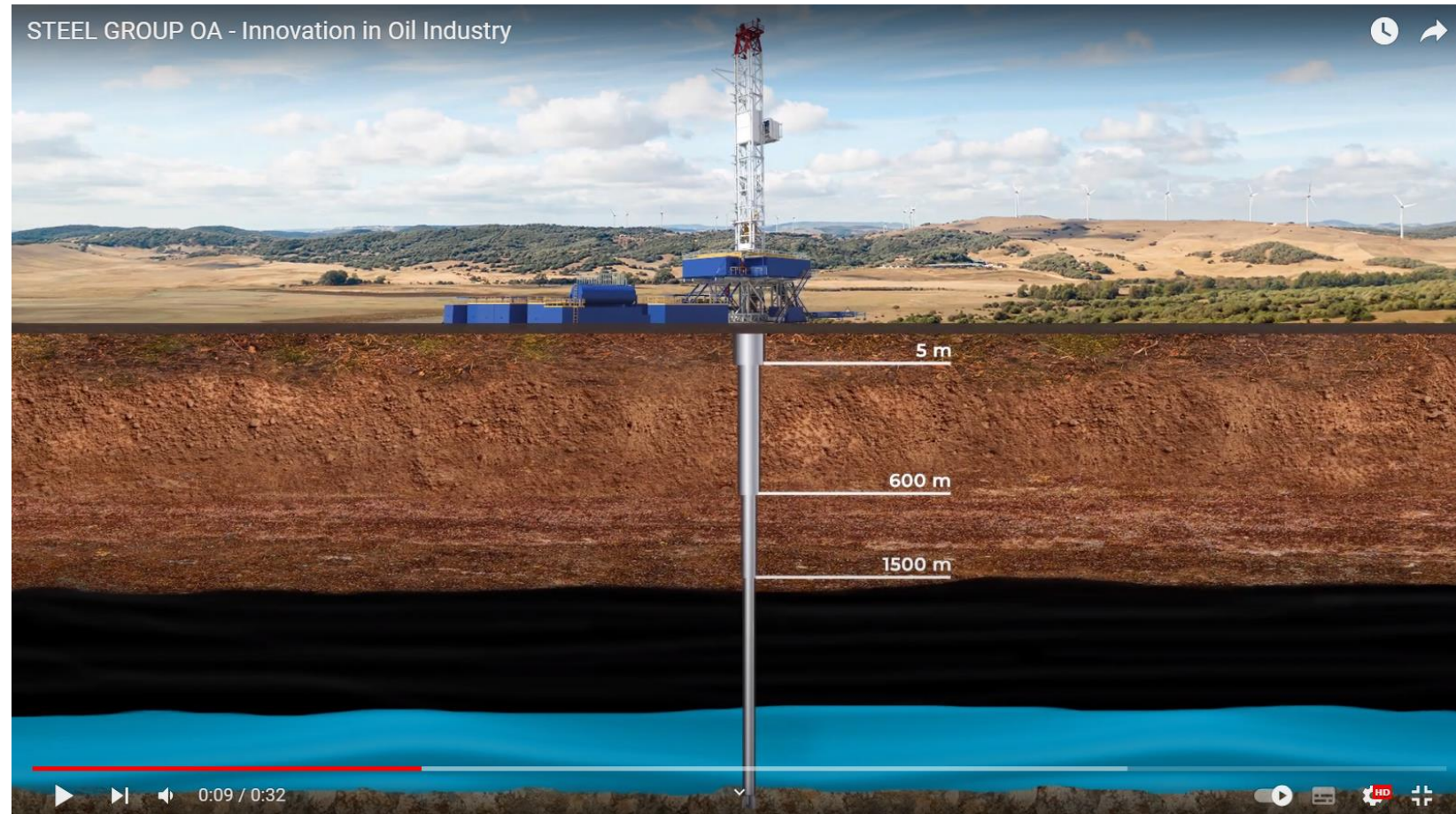
Advantages of the method

- Not require large financial and time costs
- Significantly increase the percentage of separated oil after oil water separation
- Reduces the cost price of oil production



The whole process of
implementation of the
innovative method

YouTube video



Thank you for attention !

STEEL GROUP OA

Postal address:

15/33 Bohaterów Getta
Warszawskiego street, 70-303,
Szczecin, Poland

Registered address: 14J
Niemcewicza street, 71-520,
Szczecin, Poland

www.steelgroupoa.com

