

# How to domesticate the Beast, called Szolnok 20 oil

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OIL & GAS DEVELOPMENT



My life was OK. I was relaxed, I liked my work, I had friends and girlfriends, so everything was OK.

But this year we had to start the Szolnok area oil production...

Everything changed in my life, I became more and more tense and stressfull...

Szolnok production problems started with another well's production, which is on the same area, and called Tószeg...



Tószeg oil Experinces: in the very first truck the oil became solid How we coped with it?

I do not want to talk about it...

...only at my psychologist...

...who I wisited regularly during the construction and trial period



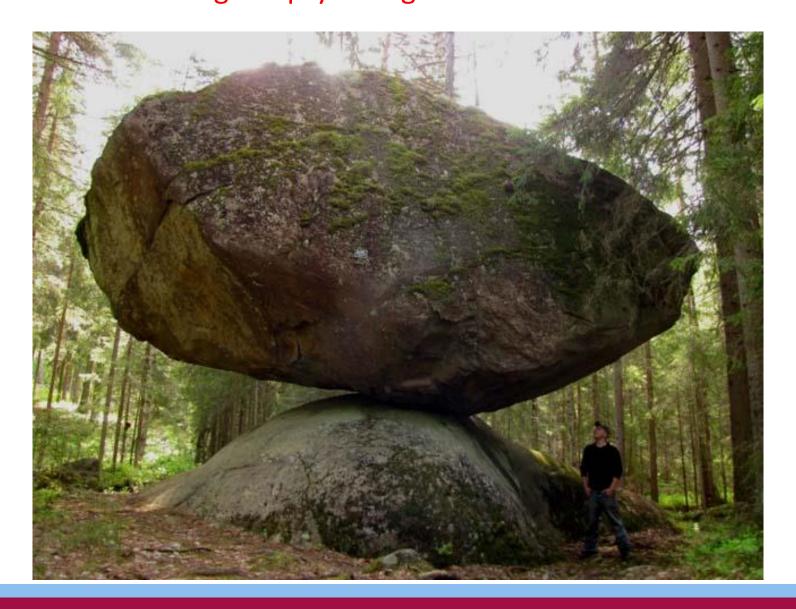
Szolnok – bigger problems, than at Tószeg:

#### Much water ...

...bounded water – so emulsion breaker needed

Lab test: 40 Co **pour point**, room temperature: like a stone Second time to go to psychologist





# Like a black, hard sausage Eye cancer







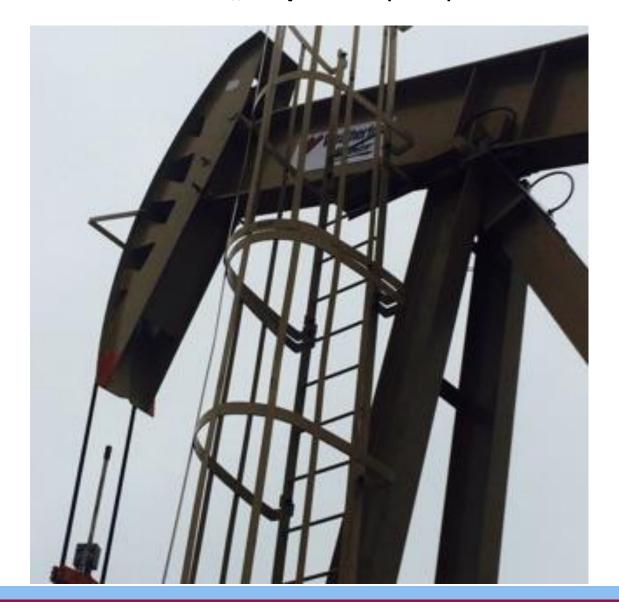
#### Condensate to inject and mix with oil

But first labtest provided fals info for us (40----20 Co)

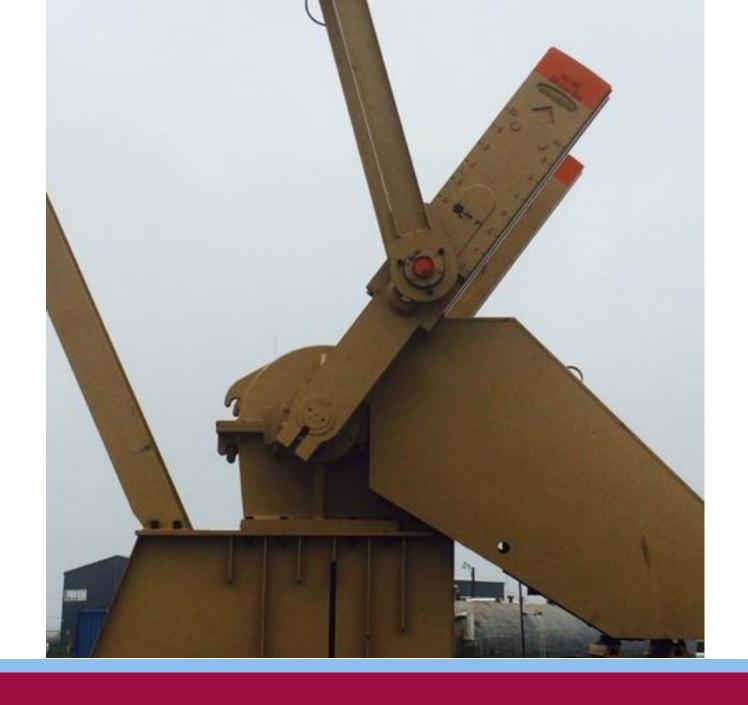
Heating from the wellhead, duplicator – the separator temp increased to 25 Co



# Oil needed a "help" - rodpump













#### Other problems:

#### Low amount of oil

It was no problem for me, I did not go to psychologist



But: tight budget - very chellenging deadlines When my boss said the maximum money I can spend, I spent...

...again a nice evening at my psychologist We did not have Uncle Scrooge (Dagobert Bácsi)







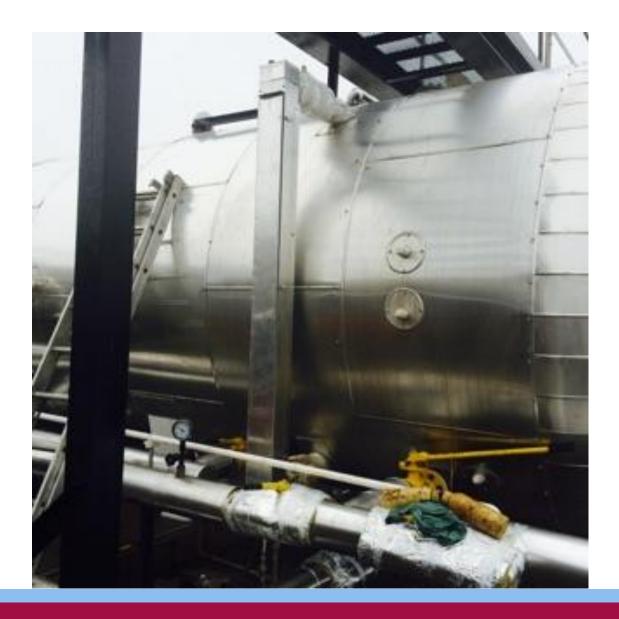
As simple technology as possible

Problems with constructors – they were not available until Christmas!

**Insulation** – delay – delay!







PETR

Insulation, foam
Very good, very cheap, but never use it!
Optical tuning - After heat camera – psychologist again!









Problems with constructors

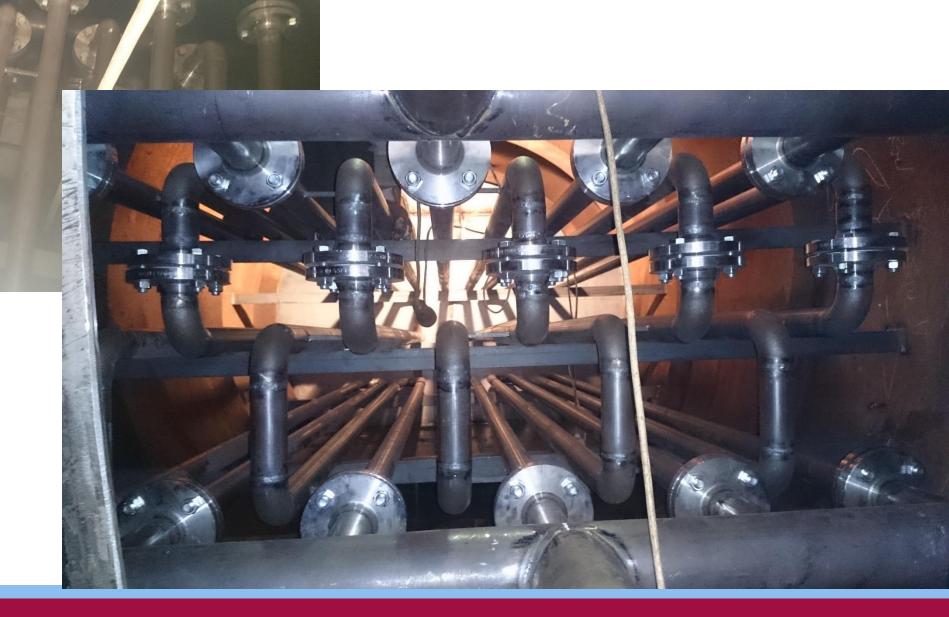
#### **Mechanical constructor**

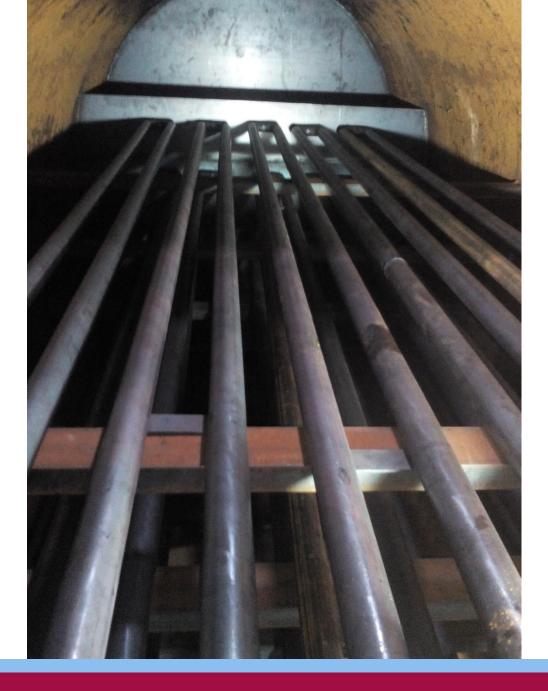
To find it – took long time

When we constructed – it was around the deadline



#### Inside the heater-treater









#### Tanks are not pressurized vessels







Between the vessels – manifolds - we use pumps
We can recerculate oil to the previous points if the technology







#### Formation water tank – the residual oil problem Shovel is needed – psychologist is needed too





## Sight tubes – made of glass







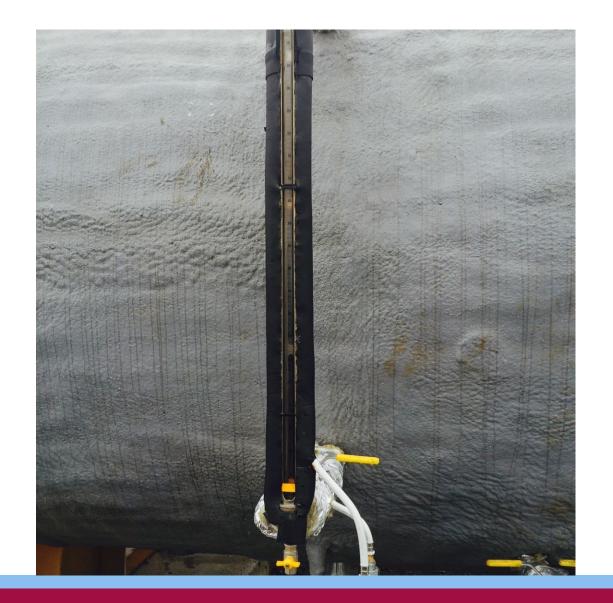








## Sight tubes – special insulation



#### Sight tubes – special insulation boxes













# Condensate line to many points of the technology; for washing, rinsing the pipes



Heating, and first without gas (Tószeg) Fuel oil-very expensive – instead Propane Then gas (Szolnok)







The only constructor, we did not have any problem regarding the quality and the deadline....

...was the instrumentation constructor, because...

...budget did not allowed any instrumentation. Everything has to be operated by manpower.

When I realised it – psychologist again

# Power generator – first fuel oil-very expensive Instead Propane –then gas





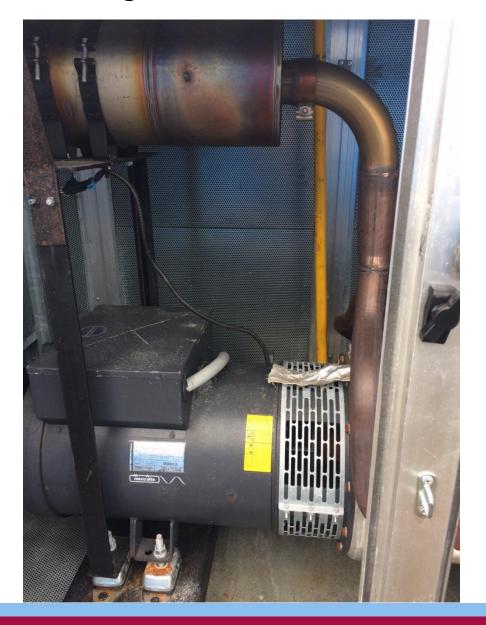






#### Power generators – utilisation of heat











#### Other problems

Measuring the daily amount without any gaugae – calcaulation (water, oil, condensate)

Truck problems – valve problem

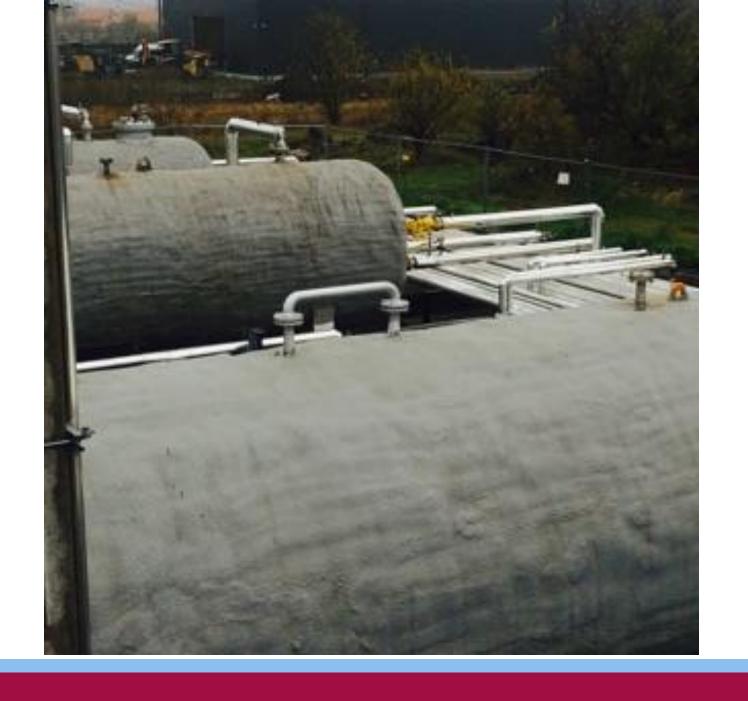
















## Very difficult to operate – but works



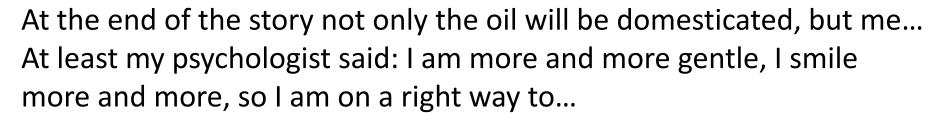


There was no more big problem, but I missed it, as she was my psychologist...

SAND HILL
PETROLEUM B.V.

I really long for other and new problems...













This is the fate of Petroleum Egineers...