



ORGANIC
OIL RECOVERY



MEMBER OF MOL GROUP

MOL HUNGARY PILOT SUCCESS

May 2022

BACKGROUND

- **Operator** - MOL Hungary
- **Field** - Algyő
- **Location** - Onshore Hungary
- **Trap Type** - Structural Four-Way Dip-closure Trap
- **Formation Age** - Miocene to Pliocene (Pannonian s.l.)
- **Depth** - 6,400ft
- **Permeability** - 200 to 700mD
- **BHT** - 98°C (208°F)
- **Well** - A-290



Algyő field is Hungary's largest oil and gas accumulation located SE of the country close to the Serbian border. The field was discovered in 1965 and is a multi-reservoir field with three main reservoirs including Algyő-2 with the OOR pilot well A-290.

Algyő-2 reservoir is a structural four-way dip-closure type of trap. The formation environment is delta interdistributary bay-fill and delta front and delta slope. The facies are distributary channels, mouth bar complex and delta front bars. The reservoir rocks are dominantly sandstone and aleurolite. The driving mechanisms are gas cap and natural water inflow. In the past the reservoir was exploited by 146 oil and gas wells although the current number of active producer wells are considerably less. Most of the wells produce with gas lift with water cut averaging higher than 95%. From 1969 till the end of the nineties water injection was applied to enhance the production and the recovery. Other small scale EOR technologies were also applied on a small area of the reservoir. The current recovery factor of the reservoir is around 47%.



>700% +
ROI*



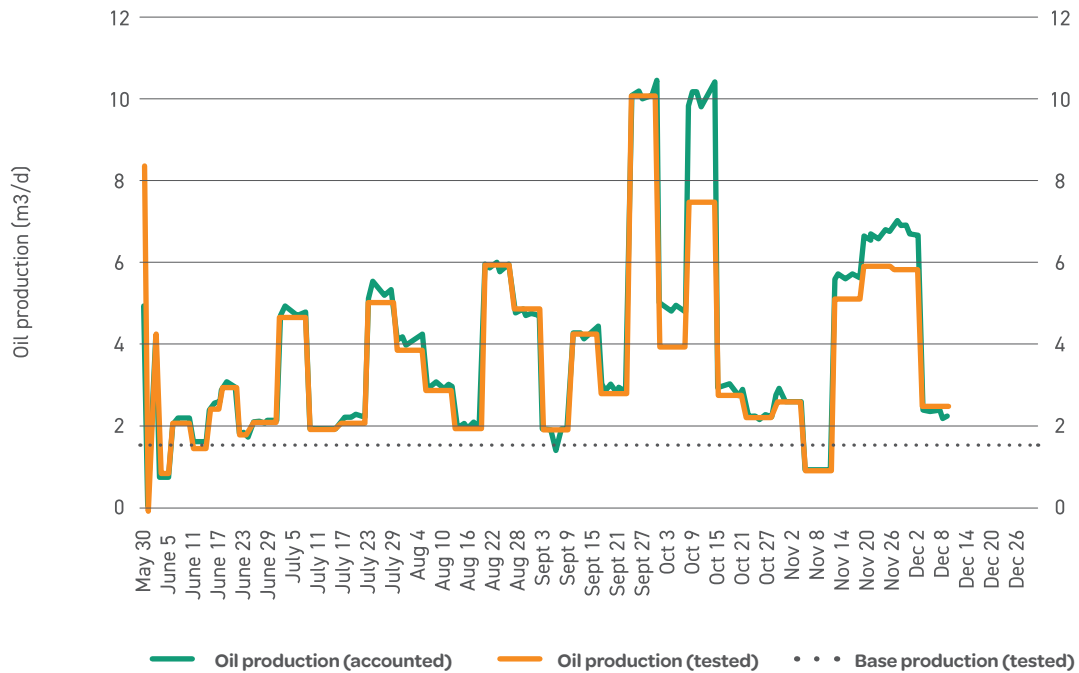
>2,600
barrel incremental



< 3 week
payback

* Incremental revenue over pilot cost

A-290 OIL PRODUCTION AFTER REOPENING



WHAT OUR CUSTOMERS HAD TO SAY

Using Hunting's guidelines, the preparation for the implementation is simple and easy. No need for expensive preparatory works and CAPEX. Implementation of the technology on the field (well treatment) is also simple, it needs only a mixing technology and a pumping unit. The pilot (ISMRA) on our Algyó well A-290 can be considered successful. The water analysis in the OOR lab showed good microbial response after the treatment with multiple growth of the original microbe count. The growth of microbes resulted in a decrease in water cut which increased net oil production.

– János Szelényi, MOL Plc.