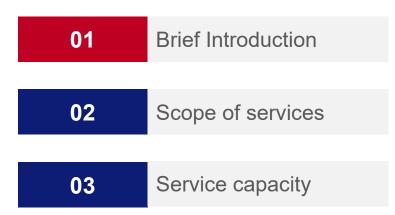
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# Production Technology Service Introduction





# Contents





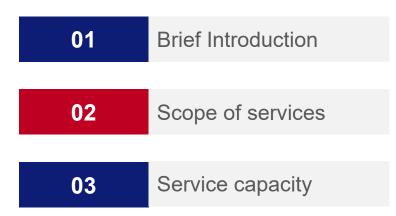


Oil Production technology is an essential part of Oilfield development. Anton can provide customers with **Artificial lift**, **Heavy oil extraction**, **Oil field water treatment & water injection**, **EOR kind of services** and equipped products, as well as production integrated service. Anton has rich experience and unique technology in deep Well, ultra-deep Well, highly deviated Well and horizontal Well lifting and heavy oil extraction and oilfield water treatment





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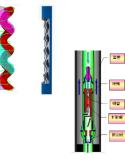


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#### Artificial Lift Service

- Integrated Artificial Lift Service
- Pumping Unit Lift Design
- ESP/ESPPU Lift Design
- PCP Lift Design
- Jet Pump Lift Design
- Gas Lift Design
- Lifting technology of deep well and super deep well
- Trouble shooting &
  - maintenance service









Water Drainage and Gas

**Production Technical Service** 



 Water Drainage and Gas Production by Optimum Pipe String

- Water Drainage and Gas Production by Foam
- Negative pressure gas extraction technology
- High pressure gas lift drainage gas recovery technology
- Water Drainage and Gas Production by ESP
- Capillary drainage gas recovery technology
- Plunger gas lift drainage gas recovery technology
- Composite process drainage gas recovery technology





**Enhanced Oil Recovery** 

- Gas Injection Flooding Technology
- Thermal Recovery Technology
- Chemical Flooding Technology
- Polymer Flooding Technology
- Bio-enzyme oil production technology
- Microbial EOR Technology





Environmental protection technology

- Desulfurization and decarburization technology
- Oilfield produced water treatment technology
- Oil field sludge treatment technology
- Oilfield cleaning operation technology





Plugging-removal

technology

- Ultrasonic plugging technology
- Biological enzyme plugging technology
- Neutral plugging removal technology
- Composite plugging removal technology
- Continuous hydraulic negative pressure pulse plugging technology
- Hydraulic jet ultra-deep penetration perforation technology



Scale sample



**Before Test** 



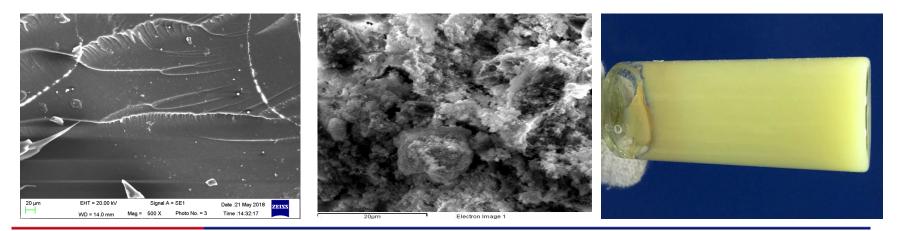
After Test





# Profile control and water control technology

- Intelligent water control technology for Oil Wells
- Technology of locating and plugging water in horizontal Wells
- Nanometer material casing sealing technology for thermal recovery well
- Technology of compound plugging agent
- Deep profile control technology of Nano-spheres
- Associating polymer profile control technology







**Special Oil Production** 

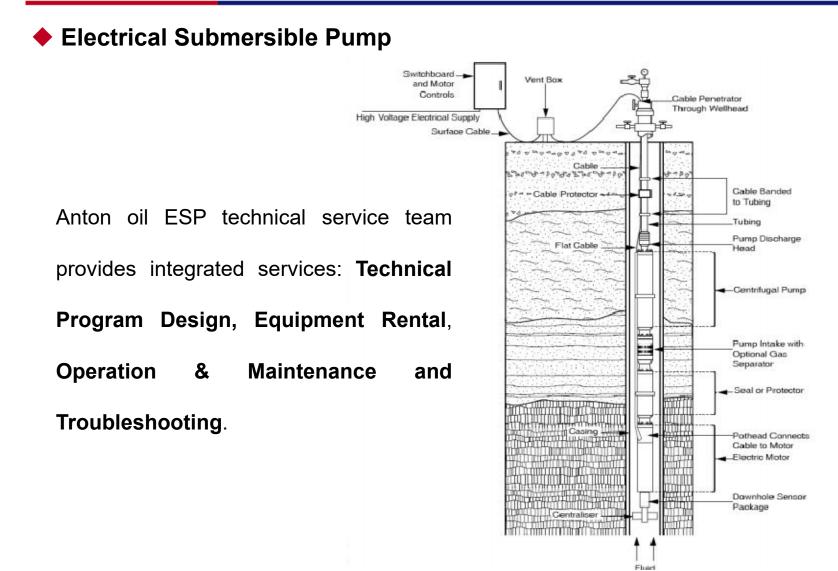
Technology

- Technology of skin effect electric heating system
- Unattended station construction technical service
- High pressure composite pipeline gathering and transportation technology
- Aerogel composite anticorrosive heat insulation technology
- Non-indentation hydraulic clamp technology



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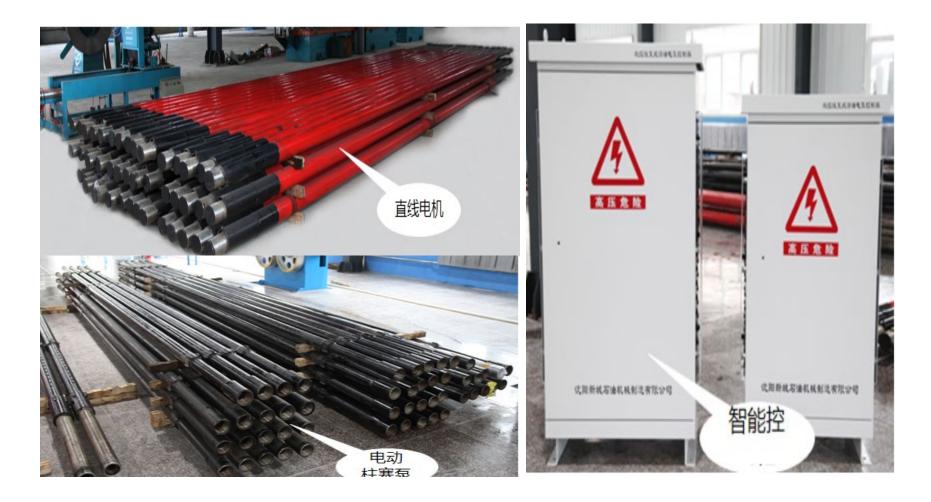
#### **Scope of services**







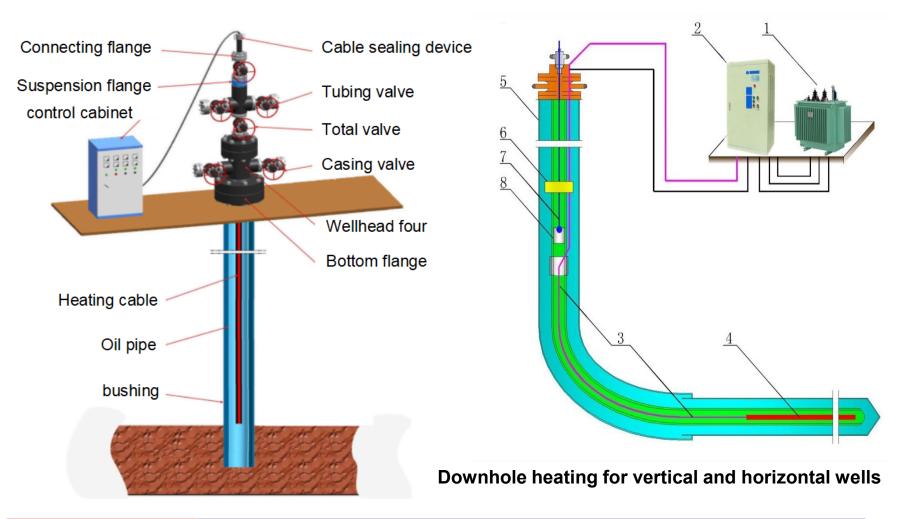
#### Electrical Submersible Plunger Pump Unit





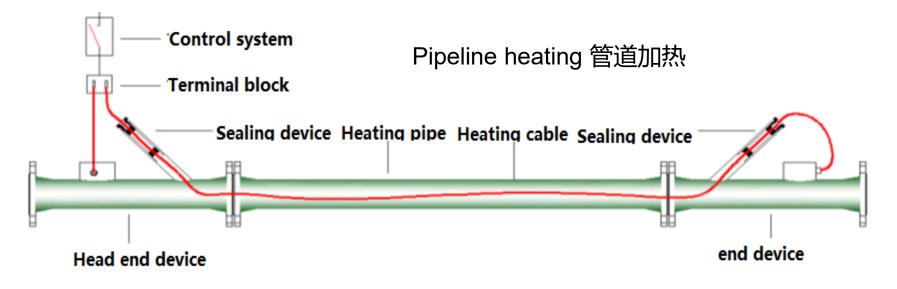


#### Electric heating technology





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#### Tank heating



#### Wellhead heating





# Anti-corrosion and heat preservation technology for heavy oil ground system

It is a new kind of anticorrosive and thermal insulation material, its main composition is  $SiO_2$ , its key technology is modified silica aerogel from solid to liquid, keep the good performance of thermal conductivity.





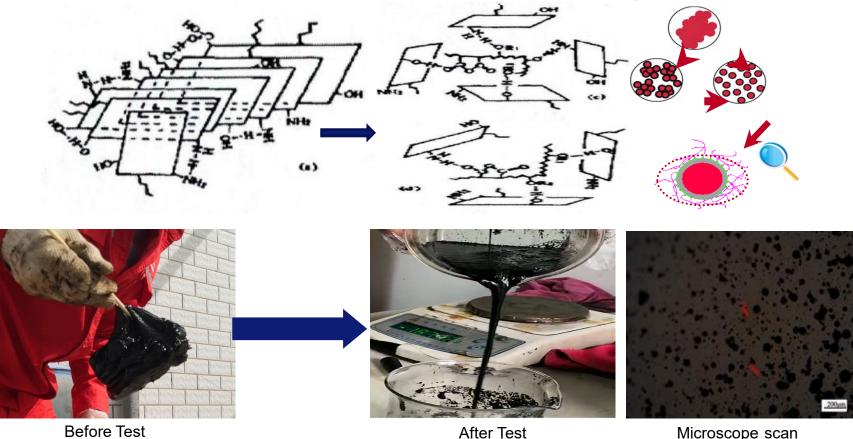


23.4°C after spraying





Chemical dispersion to reduce viscosity in gathering and transportation 



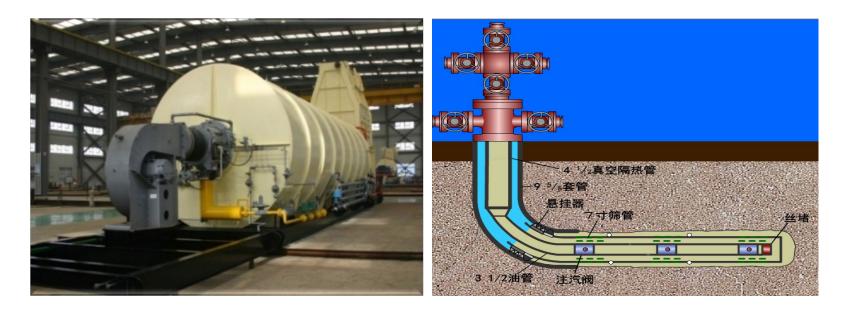
Microscope scan





#### Steam Huff-puff technology

Steam stimulation is one of the most important technologies to extract the heavy oil. Firstly, a certain amount of steam and chemicals are injected into the wells, and then the well will be shut in for a period of time waiting the heat to spread all over the reservoir, after that, the well will be reopened for production.







Chemical Treatment Technology for Oil & Water System

Crude oil and Water treatment products:

- Crude oil demulsifier
- Reverse demulsifier
- Scale inhibitor
- Bactericide
- Corrosion inhibitor
- Sulfur elimination

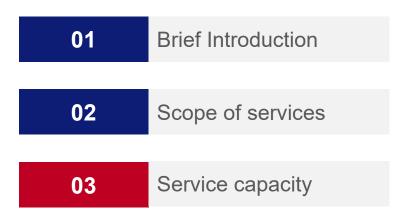








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#### **Service capacity**

8 globalized artificial lift service teams, 20 technical experts who have over 10 years experiences, 60 experienced field engineers.

Provided services in Venezuela, Ecuador, Iraq, Albania, Pakistan, Chad, Columbia, Kazakhstan and etc.









# THANKS!

Helping others succeed...

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