

Oil Field Waste Processing & Disposal

Presentation :

OFWPD program

Prepared By:

Marketing Dept.

Pars Marine Co.

Date: Jan 2017



2

Agenda:

- Introduction to PMC
- What is the problem
- Problem goes deeper & deeper
- We Have solution
- Who we are?
- Our Solution
- What we expect from our client
- At the end : Move on, Go ahead !

SEE US AT IRAN OIL SHOW 2017

HALL 38B



3

Introduction to PMC:

- **Pars Marine Industry Company (PMC) :**
- Established in 2003 in Tehran- Iran
- Starting with contracting jobs (offshore and onshore)
- Business Development 1 (2008) : CIPs & SMPs
- Business Development 2 (2010) : Equipment Supplying
- Business Development 3 (2014) : ROV
- Business Development 4 (2015) : EOR
- Business Development 5 (2016) : EPG
- Business Development 6 (2016) : WPD
- More about PMC: www.parsmarineco.com

SEE US AT JIRAN OJL SHOW 2017

HALL 38B



4

What is the problem:

- Oil production means Formation water production
- Formation water highly consists of iron particles and H₂S.
- Old oil wells Need desalination .
- Desalination produces Desalting effluent PLUS oily water and waste water.
- How to get rid of this mixture:
 - Production Process development.
 - Dispose it to the environment !
 - Dispose it into the pools !
 - Reinject it to the well.
- Kuwait protocol !

SEE US AT IRAN OIL SHOW 2017

HALL 38B



5

Problem goes deeper:

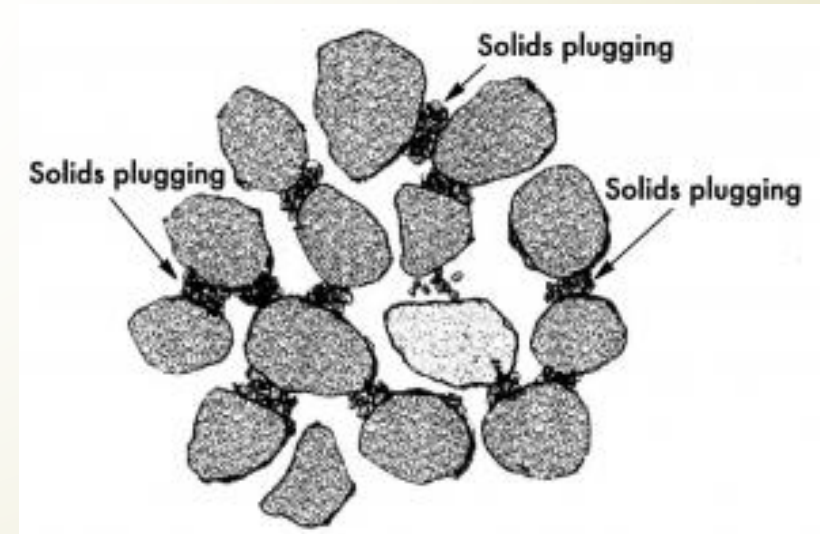
- Oily water consists of suspended solid particles.
- Oily water is rich of emulsified oily materials.
- Minerals and bacterial in the mixture.
- Corrosive gases solved in the mixture.

Result :

The reservoir structure is damaged, sediment in the reservoir ,the oil well jammed and the problem gets worse.

SEE US AT JIRAN OIL SHOW 2017

HALL 38B



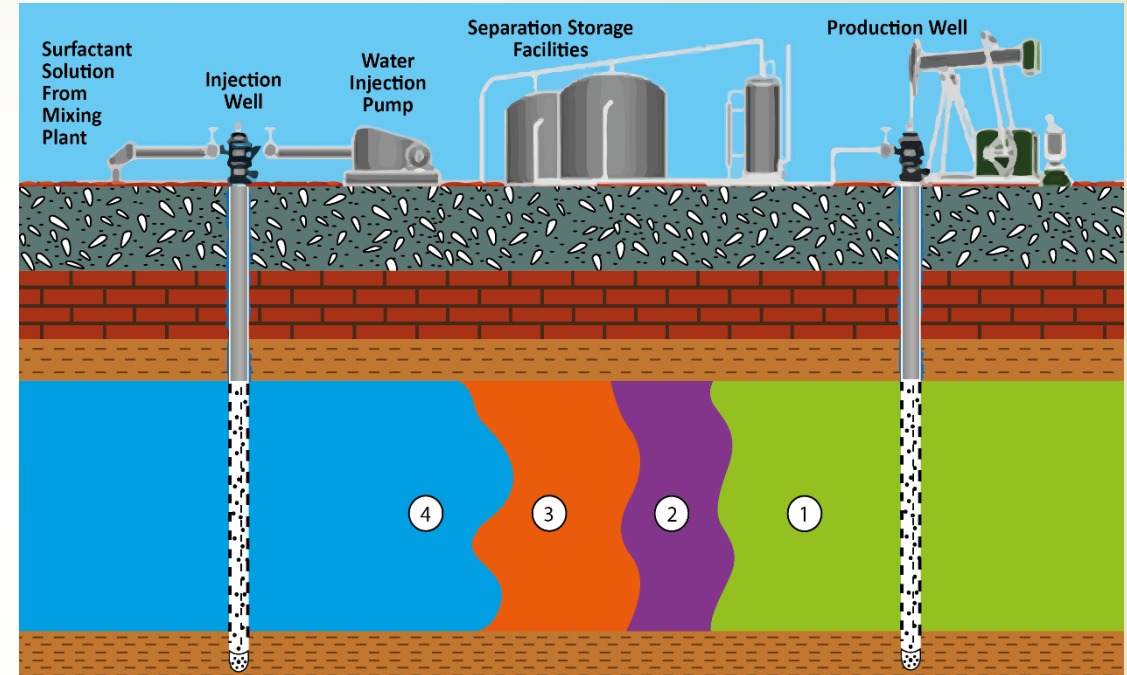
6

We Have Solution:

- **We believe on a holistic solution:**
- Oil Reservoir shall be protected
- Oil well shall be protected
- Maximum Oil Recovery
- Independent of Formation water composition.
- Small foot print / Containerized
- Modular Integration
- Easy maintenance and repair.
- HSE requirements to be met.
- **Economically feasible and fruitful**

SEE US AT IRAN OIL SHOW 2017

HALL 38B



7

Who we are ?

- We are a group of companies arranging for the whole job.
- PMC
- Positive Metering Systems
- RAG. Austria .Energy
- HOT Exploration & Field Development Services
- Sonnek
- tmt
- Hammelmann
- ILF Consulting Engineering
- DMT

SEE US AT IRAN OIL SHOW 2017

HALL 38B





Consultancy
Design and planning
Procurement
Construction supervision
Start-up
Project management
Special services

Upstream facilities
Pipeline systems
Underground storage facilities
Tank farms and terminals
Refineries and petrochemical plants



Exploration And Data Management
Reservoir Characterizations
Reservoir Assessment And Production Technology
Laboratory Services

Rapid and Cost Efficient EOR
Screening using a
Rock-on-a-Chip Approach



Systems
Oil Separators
Filtration & ultrafiltration
Water treatment
Injection system



Chemical Injection
Packages
Injection system



Pump Manufacturer
Exclusively developed
for SONNEK





World class ROV manufacturing and operations
The combination of design, engineering and offshore intervention experience
A dedicated and motivated workforce represents a complete service



Designing and manufacturing of marine winches and naval equipment.
A specialized supplier of Towing Winches and Mooring Systems,



Winches

On & Offshore solutions

Special projects

Deck equipment



Full Scope Technology and Facility for TREATMENT of Hazardous Waste including NORM

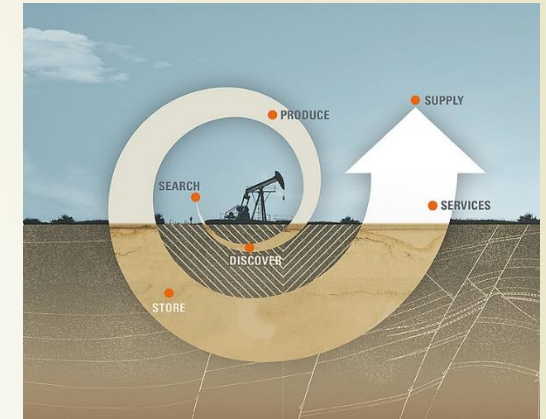


Solidification Reactor PM 2250



RAG is Austria's oldest established exploration, production and gas storage company. Its core areas of business are oil and natural gas exploration, production and trading, and gas storage.

leading technology for fully automatic fluid level measurement, pump control and reservoir characterization to optimize production and increase value of reserves.



A fully private Company comprises of an outstanding professional engineers and project construction team to carryout EPCI (Engineering, Procurement, Construction and Installation) Projects.

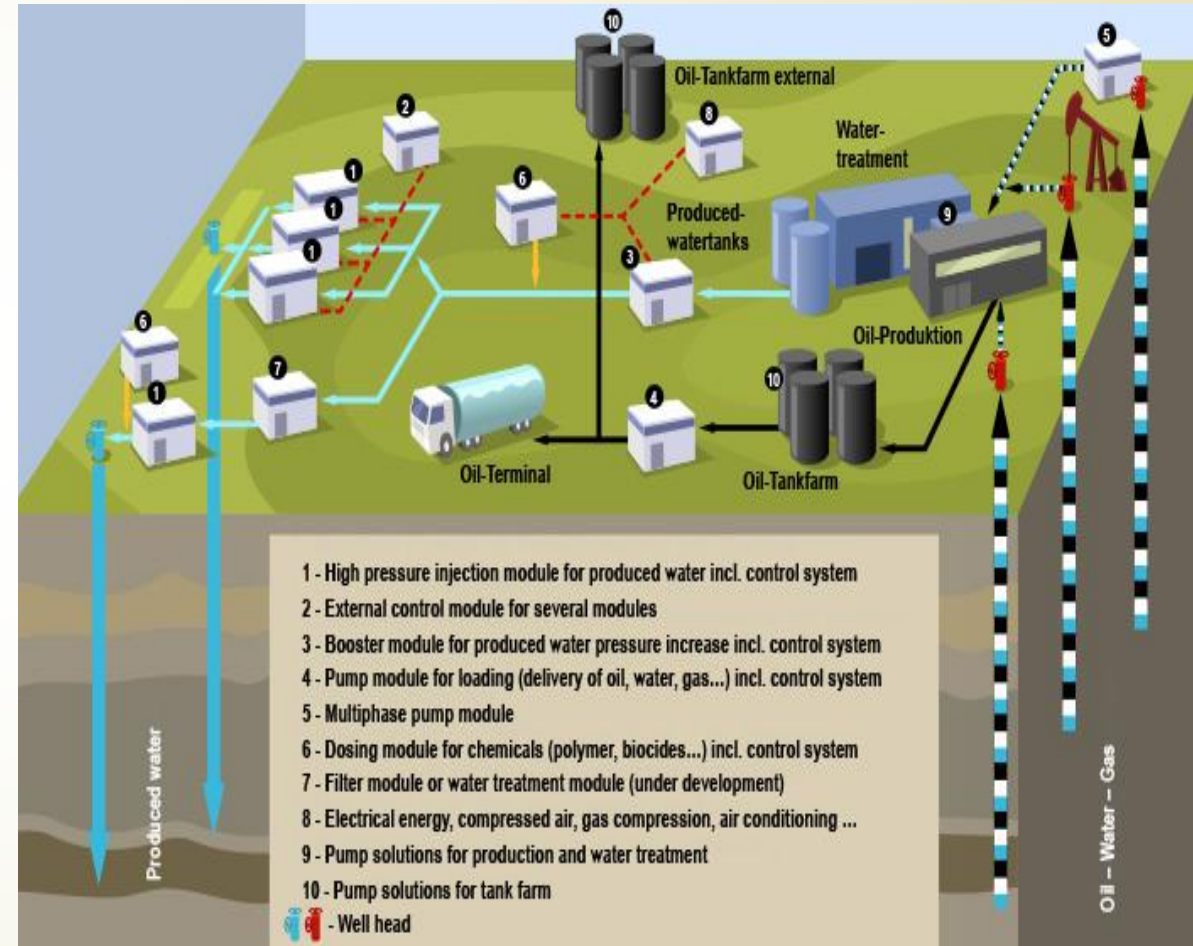
Supplying of : Process packages , onshore & offshore services , power generation and EOR systems.



- **We believe on a holistic solution:**
- The solution starts from oil reservoir analysis
- Extracted oil analysis
- Oil separation system design
- Deslating (If needed)
- Crude oil recovery
- Solid waste management
- Water treatment system
- Injection system
- Monitor , Control and self modification.

SEE US AT IRAN OIL SHOW 2017

HALL 38B



13

What we expect from our client?

- **We believe our client is the key player :**
- Arrange a professional team on this problem
- Use our team knowledge to proceed the job properly
- Make a tough assessment of the proposals
- Have a close cooperation with his contractor
- Release his technical data to the contractor
- Consider this job as an investment not a cost
- Allocate adequate financial/nonfinancial sources
- Assign repair & maintenance to the contractor.

SEE US AT J'AN OJL SHOW 2017

HALL 38B



14

At the end : push the project !

- ▶ Time is our enemy !
- ▶ A huge amount of oil can be recovered
- ▶ Oil wells are being damaged applying wrong solutions
- ▶ Oil reservoir are being damaged
- ▶ Rate of oil extract can be majorly increased
- ▶ Oil well lifetime increase
- ▶ Technology transfer
- ▶ Environment protected efficiently

SEE US AT JIRAN OIL SHOW 2017

HALL 38B





THANK YOU
for your
ATTENTION!

Pars Marine Industry Company

Tel: 88058851-2 Fax: 88039678

Email : Sales@parsmarineco.com

Website: www.parsmarineco.com



SEE US AT IRAN OIL SHOW 2017
HALL 38B



***SEE US AT JIRAN OJL
SHOW 2017
HALL 38B !***