

RAYA

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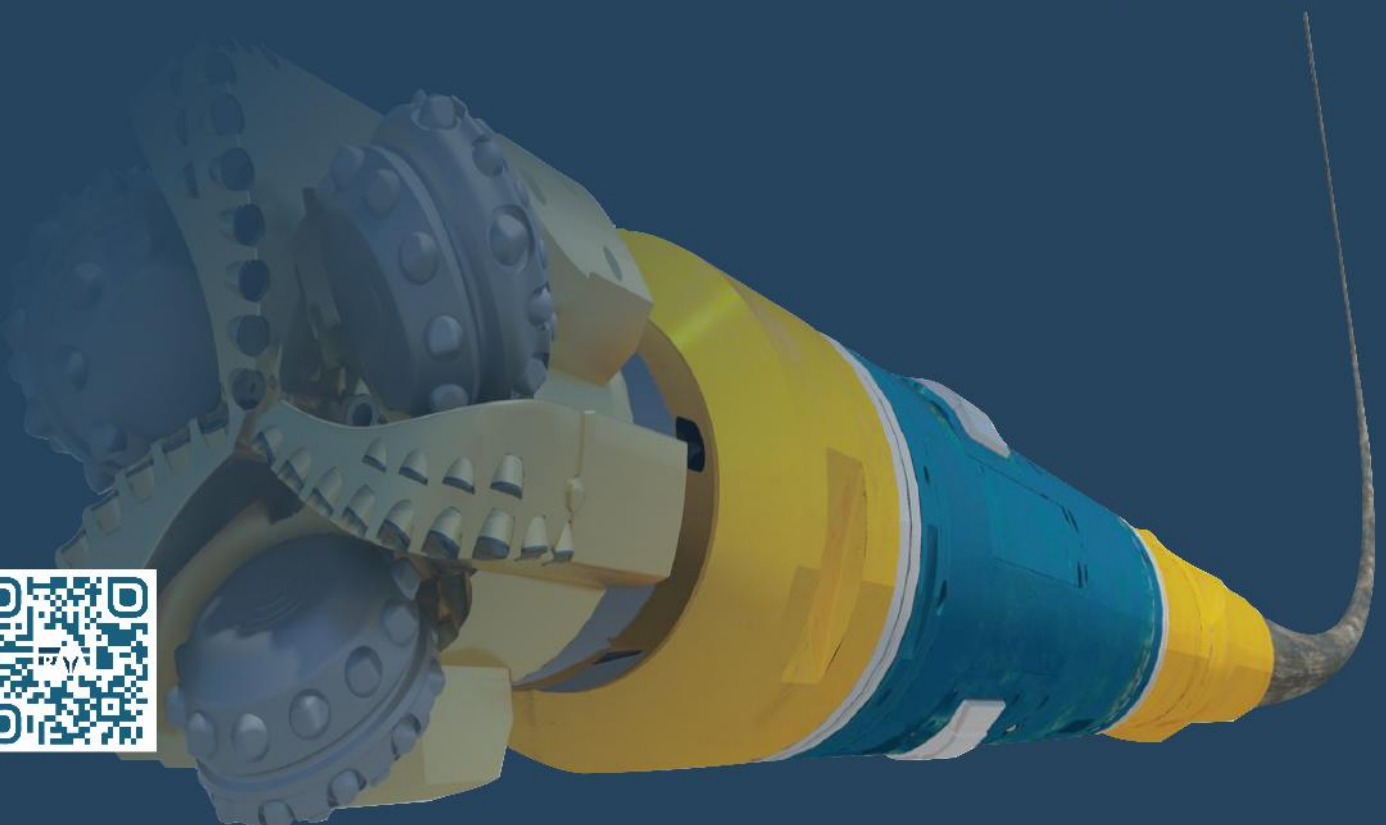


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REPPCO

has been established to achieve its final goal of leading Horizontal Solutions in Iran over the next five years. REPPCO offers a niche service. Therefore, instead of trying to penetrate a saturated, broad market, it targets a narrow market with a specialized service which has the potential to be successfully run in Iran. In fact, while there is high demand for such a service, it provides us with a valuable opportunity to become the market leader rapidly, enjoying first mover advantage. We believe “The smaller the market, the easier it will be to become a leader” . Accordingly, we found REPPCO quickly. Our management system allows us to build following services fully capable of covering directional and horizontal section of drilling operation.

	Operation	Design and Analysis
Drilling and Horizontal Drilling	3D Horizontal Well	Comprehensive Well - Design
	Tapping Sea Reservoir from Onshore	• Extended Reach Drilling
	Ultra - deep Horizontal	• 3D Horizontal Well
	Super Slim Horizontal	• Sidetracking and Re-entry
	Ultra - thin Reservoir Horizontal	Geosteering
	Extended Reach Drilling	• Remote Geosteering
	Sidetrack and Re-entry	• Operation Geosteering
LWD Services		Petrophysical While Drilling
MWD Services		Geomechanical While Drilling
GYRO Services		Geological Operation
Steering Services		Training





the goal of geosteering is placing the wellbore in optimal position within the reservoir. Optimal position can target ideal drilling targets within the reservoir (maximizing drilling efficiency).

best placement for completion (targeting beds that support best fracking efficiency) and ultimately improving production of individual wells and of a resource play as a whole

Geosteering

- . Continuous (24/7) supervision of drilling operation;
- . Continuous assessment of the stratigraphic location of the drill bit in real time;
- . Use offset well information to optimally land the build section, by utilizing TVD logs with cross plot of offset data;
- . Correlation of drilling, MWD/LWD and mud gas parameters throughout the wellbore and against offsetting wells profiles;
- . Continuous monitoring and critical evaluation of the wellpath inclination and azimuth in relation to stratigraphic markers and porosity windows;
- . Continuous communication with directional driller, proactive wellpath adjustments to ensure wellbore placement remains within the acceptable stratigraphic window;
- . Proactively evaluating wellpath position in relation to existing and planned wellbores;

Reservoir navigation

Identifying the optimal trajectory based on:

- . MWD/LWD parameters
- . gas ratios
- . proximity data (ranging)

Directional Drilling supervision

Plotting actual well path against designed well trajectory

Identification of wellpath relative to stratigraphic marks (wellpath with TVD gamma and formation tops)

Constant communication with directional drillers to ensure wellpath follows optimal trajectory

- . best reservoir or
- . best wellbore placement or
- . optimal drill path

MWD/LWD supervision:, data stream monitoring



- Continuous supervision of drilling operations;
- Continuous assessment of stratigraphic location of the drill bit in real time;
- Correlation of drilling, MWD/LWD and mud gas parameters throughout the wellbore and to offsetting wells;
- Use offset well information to optimally land the build section, by employing TVD logs with cross plot of offset data;
- Continuous monitoring and critical evaluation of the wellpath inclination and azimuth in relation to stratigraphic markers and porosity windows;
- Continuous communication with directional drillers and Operator personnel, proactive adjustments to ensure wellpath placement remains within the acceptable stratigraphic window;
- Proactively evaluate wellpath position in relation to existing and planned wellbores;
- Reservoir navigation
 - based on MWD/LWD parameters
 - based on gas ratios
 - based on proximity data (ranging)

Geosteering Personnel

Personnel in the geosteering room have the following ongoing duties:

- Remotely supervise and acquire surveys, MWD data, Drilling data
- Compile data in operations reports
- Determine the position of the bit relative to stratigraphic markers
- Propose trajectory based on
 - Optimal drill path
 - Optimal reservoir
 - Optimal placement for completion
- Communicate targets to field personnel
 - Ensure implementation targets
- Analyze data and results
 - Determine strategies for ongoing development
 - Integrate geological, drilling and completion results





Rayatech final goal is to lead Geosteering in Iran over the next five years.
Rayatech targets a narrow market with a specialized service.
Rayatech has the first mover advantage.
Rayatech brings services in which thoughts, time and idea are invested.

We believe, the smaller the market, the easier it will be to become a leader.

RAYA & Chinook

To make the idea closer to real world problems, we work with the limited partnership as we think this is the best business structure enabling us to define general partners (Rayatech) who would play as thinkers and Chinook Consulting Services Ltd who would play as a body corporate.

Chinook clients

Our client base includes over 100 Exploration and Production Companies, from emerging Junior Oil and Gas explorers to Super major producers.

The company restructured in 2004, and expanded internationally since 2006 and worked in 20 countries up to now. Services were diversified into Geosteering, Operations Geology, Mudlogging, Petrography, Geochemistry, as well as personnel management and placement for international projects. The company is headquartered in Calgary, Alberta, Canada.



ExxonMobil

ConocoPhillips



Statoil

MURPHY
OIL CORPORATION

Canadian Natural
encana



Husky Energy

cenovus
ENERGY



Apache

Santos
MEG ENERGY

TRAYA

