

## Case Study

# Rig Move from Germany to Turkey

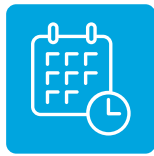




**Industry**  
Oil and gas



**Location**  
Tekirdag, Turkey



**Shipping Period**  
April to July



**Volume**  
7,610 FRT



**Total Truckloads**  
102 truck  
movements

# Case Study: Rig Move from Germany to Turkey

The deugro team managed a rig transportation project by road, including accessories, that required an overall flexible, fast, secure and safe handling. While the rig had to be delivered in sequence, other challenges like local import requirements and the restrictive project schedule had to be faced.

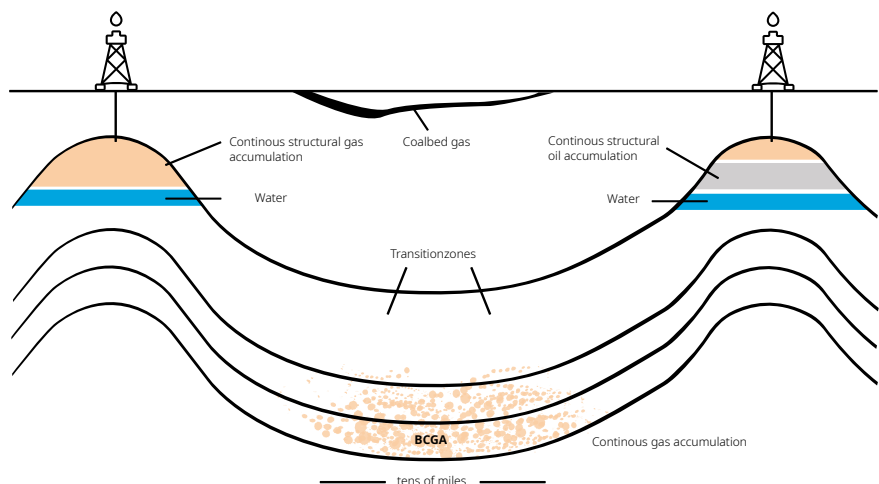
The project's consignee identified potential for a basin-centered gas accumulation (BCGA) site in the Thrace Basin, which is located in the European part of Turkey. BCGA is a pervasive, basin-wide gas accumulation site that is trapped in low-permeable rock.

After identifying the potential, the consignee gained successfully rights to the majority of the Thrace Basin BCGA fairway between 2013 and 2016. Drilling to test for an additional deep-exploration well was scheduled for 2018.

Following previous success and experience in onshore rig

transportation for this international drilling contractor, deugro was awarded and tasked with the delivery of this new rig. Similar to the previous contract, deugro needed to perform the rig transportation under a highly changeable and aggressive schedule. Previous rig movements had been completed by ocean freight, but due to time constraints and multiple origins, this time the entire rig was transported by road from different locations across Germany to Tekirdag, Turkey.

## Cross-section of a basin-centered gas accumulation drilling unit:





**A flare line positioned on beams at the production site, ready for its transportation**

### deugro's scope of work

The rig had to be delivered in sequence, starting with the camp facilities for the rig crew and main rig substructure, followed by components such as draw works, mud pumps, and tanks, before ending with the drill pipes.

In addition to the importance of the sequencing, the transit times needed to be factored to ensure timely collection and uninterrupted arrival of these components at the site in order to support the construction sequence as well as prevent site congestion and waiting time.

The heaviest packaging unit, weighing 57,000 kilograms, was the draw works, which is the primary hosting machinery and a component of the rotary drilling rig. During the project, deugro performed the following services:

- Export packing, including bundling, box-up packing for electrical items, covering partial cargo with tarpaulins, securing tools into storage containers and furniture into camp units
- Preparation of export documents, including commercial invoice, packing list, CMR waybill, export customs document and A.TR document (required for imports into Turkey)
- Entire truck planning and dispatch
- Truck coordination at the origin and destination with deugro personnel
- Live status updates and comprehensive cargo tracking

## Project execution

The deugro project team supervised the loading of the trucks at the sites with our own personnel, depending on the number of truck loads per day. Our site personnel was supported by our office team in Hamburg, Germany, who coordinated truck movements and documentation.

Prior to loading, export customs clearance and documents according to Turkish import requirements had to be issued for each packaging unit based on the actual cargo details. Consistent and timely correspondence with our customs broker as well as the local customs office was vital. Especially if final packaging details differed from preliminary data regarding goods received, immediate amendments had to be performed accordingly.

Once the cargo reached Turkey, our colleagues from our Istanbul office took over. At all times, deugro corresponded with the local import customs broker and coordinated delivery in sequence to the site. The discharging operation was supervised by deugro staff and in accordance with the required health and safety regulations and best practices.

At the project site, operations were hampered due to unexpected heavy rain, which delayed construction works and, specifically, affected the ground works. As a result, the rig foundation dried later than initially planned, with a considerable impact on an already tight schedule. The new loading time frame due to the delay was now interfering with Easter holidays

» deugro reacted dynamically and proactively to the revised demands. «

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### The Challenges

- Stringently sequenced delivery requirements
- Challenging local import requirements
- Restrictive project schedule
- Requirement for dynamic and differing delivery solutions due to delayed ground works



in Turkey. This reduced the main loading days from 11 to only 9. deugro reacted dynamically and proactively to the revised demands and managed to load all the main cargo within the given number of workdays as required.

In order to match the overall time frame, another challenge was faced with the purchase of accessories and safety elements for the rig. These items, such as the annular blowout preventer (BOP)<sup>1</sup>, came from Dubai. As time was crucial,

deugro handled this shipment by air freight and by once again providing full international, door-to-door control and visibility.

In the end, deugro's client was pleased by the overall flexible, fast, secure and safe handling of the sequential delivery.

<sup>1</sup>BOP is a hydraulic valve positioned directly above the drilling well. It is a central safety element that closes the well and prevents a blowout.



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## Manufacturer Specifications of the Onshore Rig:

Location: Tekirdag, Turkey  
Rig Type: Land rig  
Control: Owned  
Drilling Depth: 18,000 ft  
Hook Load: 0.77 million lbs  
Power: CAT 3512 B  
Substructure Height: 30 ft