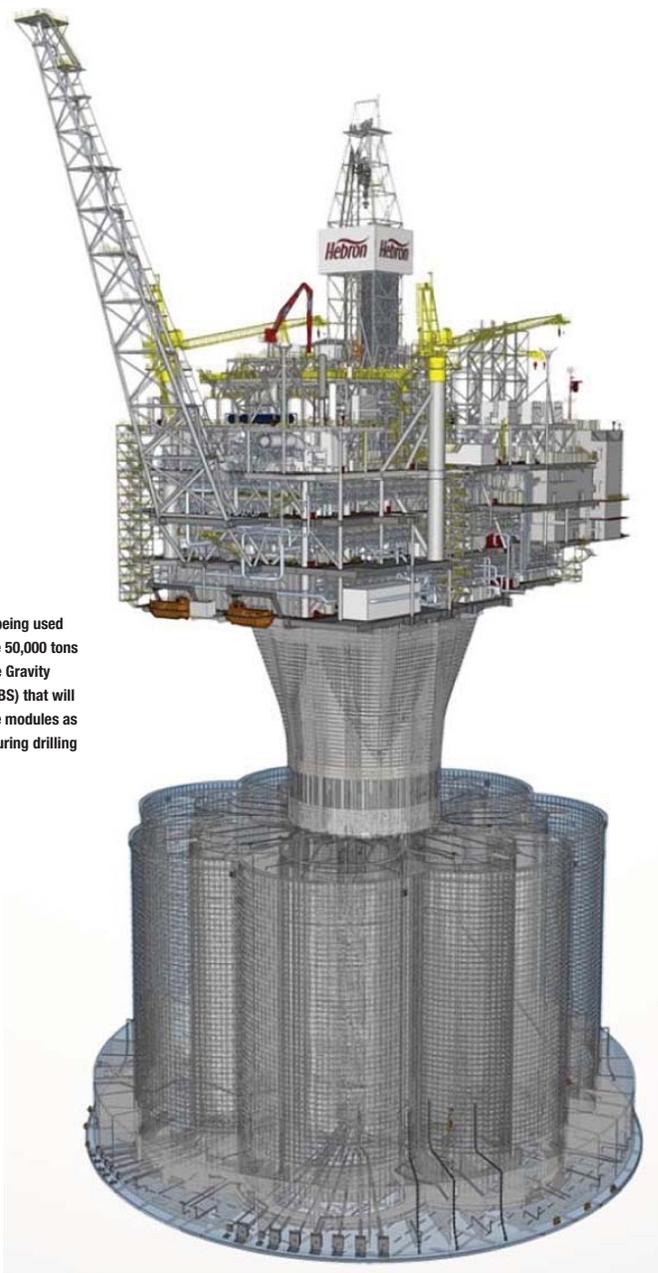




**KRB EQUIPMENT**

# PROJECT STORY .07



KRB equipment is being used to cut and bend the 50,000 tons of rebar used in the Gravity Based Structure (GBS) that will support the topside modules as well as house oil during drilling operations.

## AGF is building energy resources to last

The Hebron Project is the surveying, engineering, procurement, construction, installation, commissioning, development drilling, operations and maintenance, and decommissioning of an offshore oil production system off the coast of Newfoundland Labrador.

The project is being developed by a conglomeration of companies including, ExxonMobil Canada Ltd., Chevron Canada Limited (Chevron), Petro-Canada, StatoilHydro Canada Limited (StatoilHydro), and Oil and Gas Corporation of Newfoundland Labrador.

The underwater section is known as a Gravity Based Structure (GBS). It will be a concrete reinforced structure designed to withstand sea ice, icebergs, and meteorological and oceanographic conditions at the offshore Hebron Project Area. The GBS base will be cast onshore by AGF using up to 50,000 tons of rebar. The GBS will then be floated out to a deep water construction site approximately 300 km off the coast from St. Johns Newfoundland Labrador. There the final construction of the GBS will be completed.



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The reinforced concrete GBS supports the topside modules, like drilling, housing and power generation modules.

The following facilities and systems will then be mounted topside on the GBS.

- Production facilities for the separation of oil, gas and water, treatment of produced water, compression of gas for use in artificially lifting production from the wellbores and injection of gas for conservation, injection of seawater and potentially produced water to maintain reservoir pressure.
- Drilling facilities (single drilling rig) to enable drilling and ongoing maintenance of all the wells.

- Utility systems including power generation and distribution.
- Life support and safety systems including personnel accommodations for approximately 140 - 200 (or more) personnel, platform control system, temporary safe refuge, and emergency evacuation and rescue systems.

The GBS production facilities will have the capacity to handle the life of field production stream (30 or more years). Based on the current conceptual reservoir depletion plan, it is expected the facility will be designed to accommodate an estimated production rate of 19,000 to 28,000 m<sup>3</sup>/day of oil.



KRB #11 Hydraulic Bender.