

G125-005

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Enhanced recovery of methane hydrate using exothermic heat of CO₂ hydrate

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Based on our basic law, energy and mineral resources in our marine will be developed next ten years. Methane hydrate production is demonstrated in permafrost in Canada. Reliability of the method, productivity and recovery factor of methane hydrate are important for commercialization. The demonstration of methane hydrate production is by depressurization. We need to consider warm the methane hydrate to get better productivity and recovery factor. A new idea is presented to warm sediments by exothermic heat of CO₂ hydrate formation. The heat value is about 8 percent of hydrogen burning.