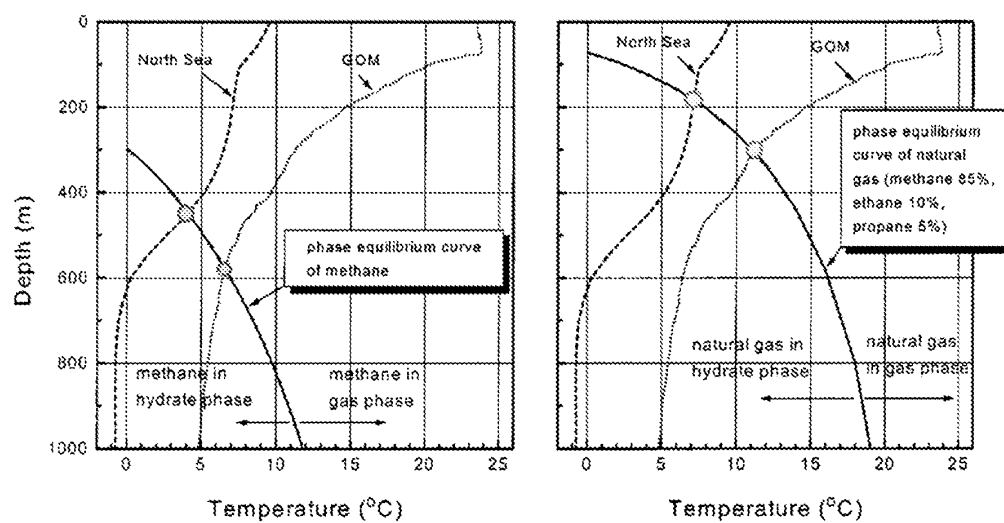


(Yapa and Chen, J. Hydraul. Eng. 2004, 130: pp 540-553)

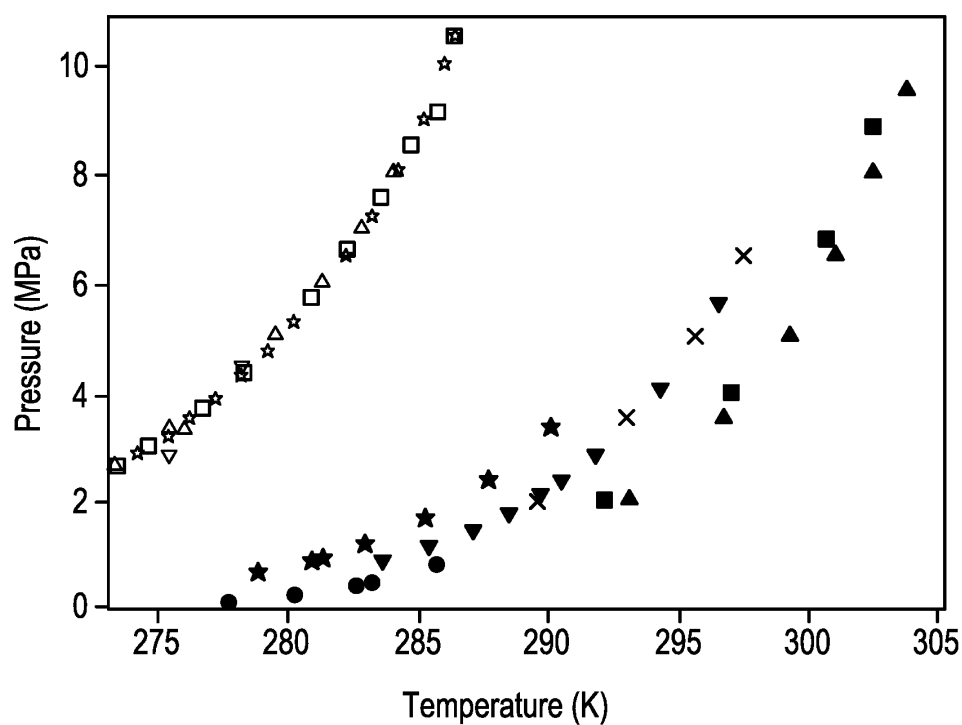


Temperature profiles in North Sea (NS) and Gulf of Mexico (GOM) and the phase equilibrium curves for methane and natural gas. Data for GOM were provided by Coort Cooper and data for NS were provided in Johansen et al. (2001)

Fig. 1A

Fig. 1B

FIG. 2



- △ Methane+Water; dee Roo et al.[73]
- ▽ Methane+Water; Thakore and Holder[74]
- Methane+Water; Adisasmito et al.[75]
- ☆ Methane+Water; Nakamura et al.[76]
- Methane+6 mol% THF+Water; Zhang et al.[143]
- ▲ Methane+5 mol% THF+Water; de Deugd et al.[147]
- Methane+3 mol% THF+Water; Seo et al.[145]
- × Methane+1 mol% THF+Water; de Deugd et al.[147]
- ▼ Methane+1 mol% THF+Water; Mohammadi & Richon[146]
- ★ Methane+0.5 mol% THF+Water; Mohammadi & Richon[146]

FIG. 3

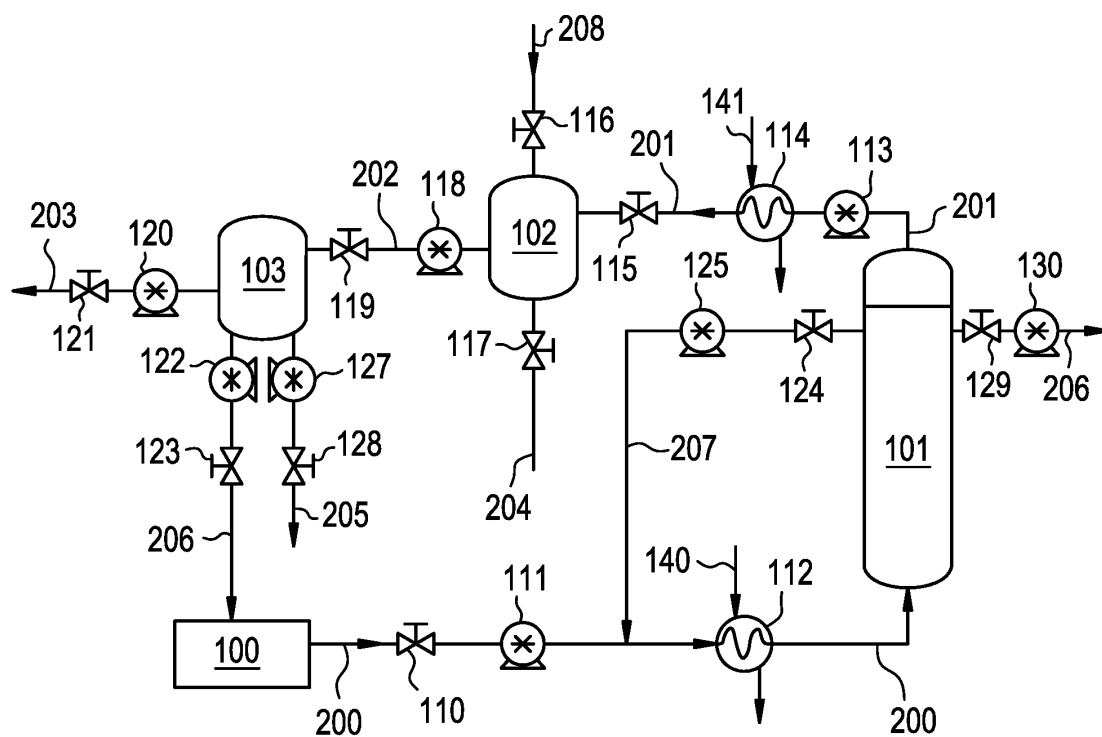
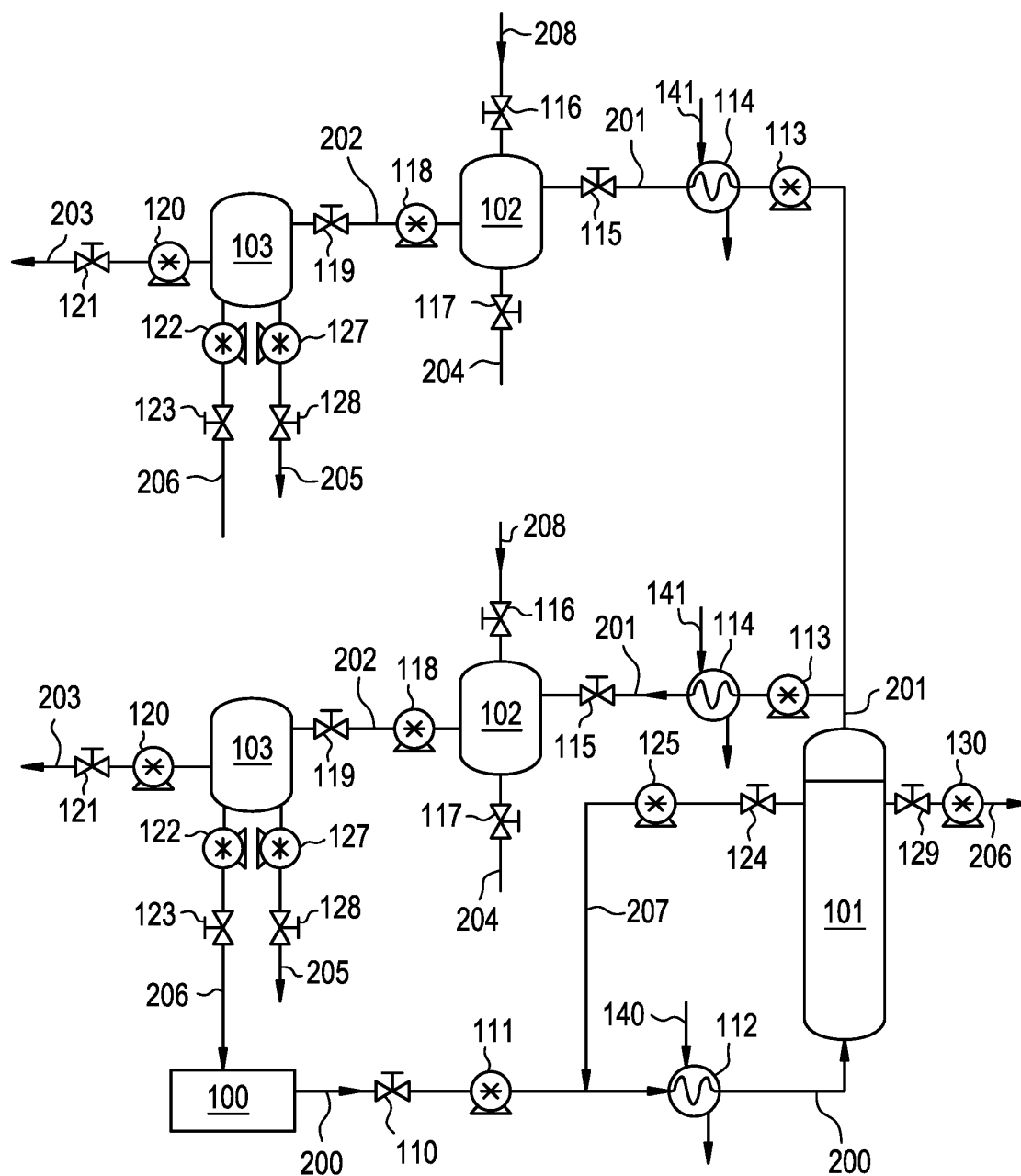


FIG. 4



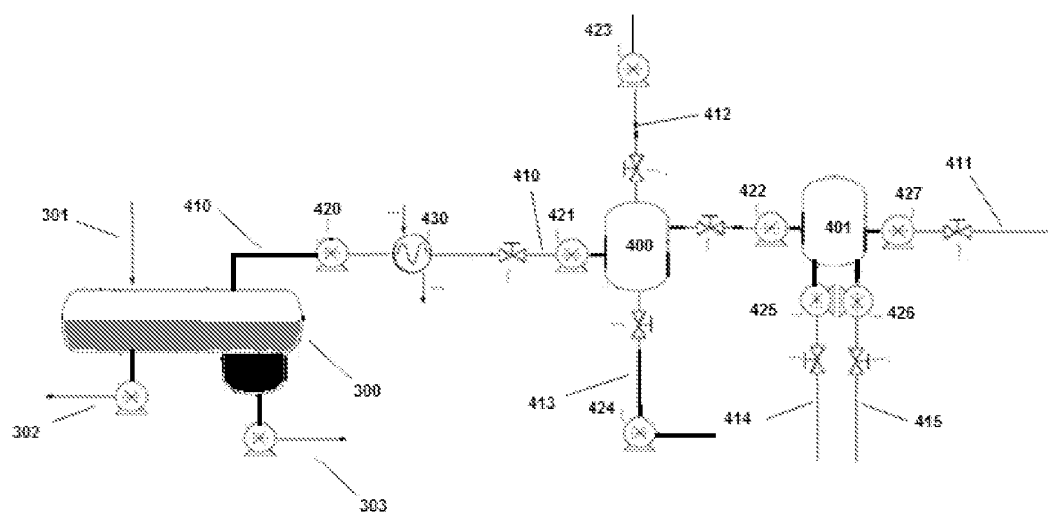
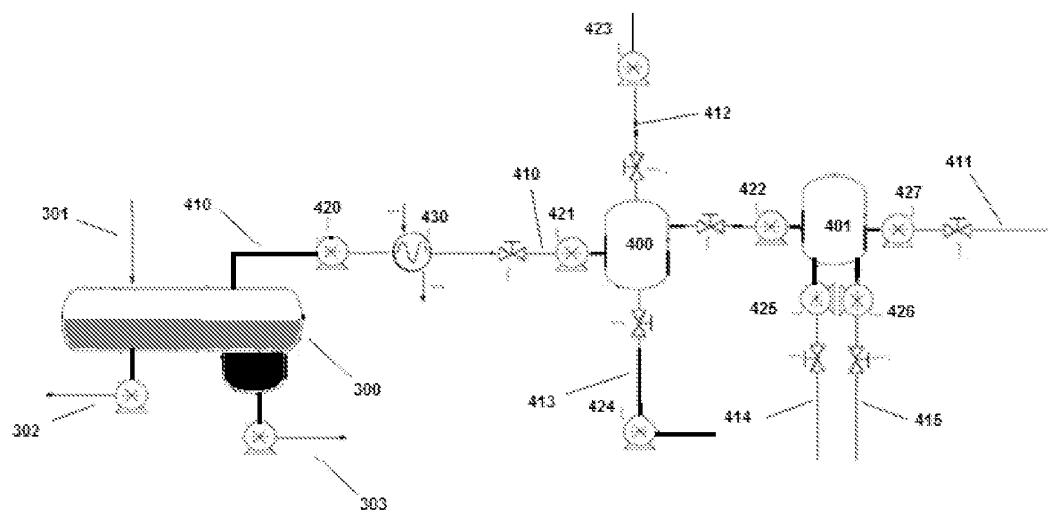
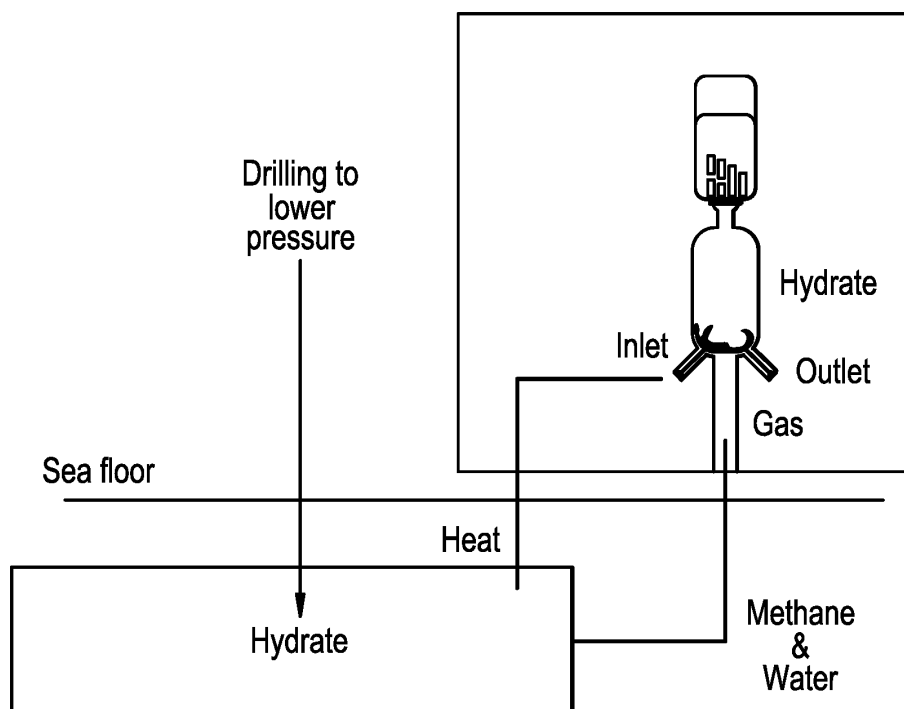
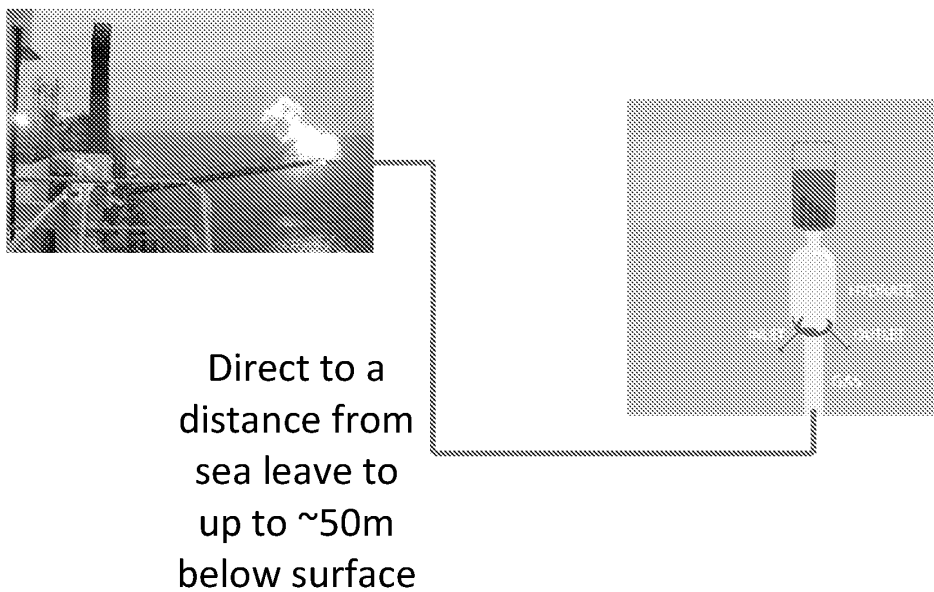
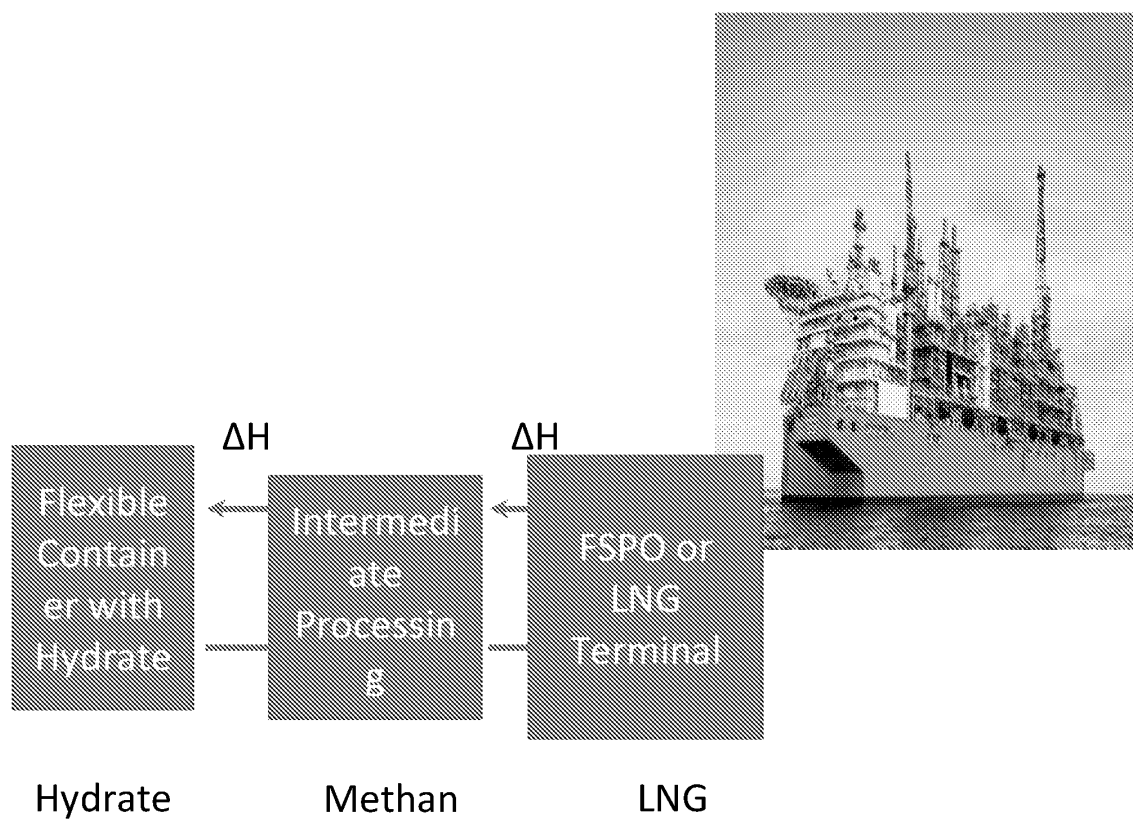
**Fig. 5****Fig. 6**

FIG. 7



**Fig 8**

**Fig 9**