

Chinese current oil shale business

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Current highlights of the Chinese oil shale business are as follows:

- (1) *Exploration enhancement:* Detailed exploration and evaluation have been conducted for the Bilongco marine oil shale in the south Qiantang depression, Tibet, China, by Chengdu Institute of Geology and Sichuan University. China University of Geosciences and Exploration Research Institute, SINOPEC carried out detailed exploration and sample evaluation of the Permian oil shale at Sangonghe and Ergonghe in the northern foot of Bogda Mountain, Xinjiang, China.
- (2) *Shale oil production:* In 2011, China is estimated to produce about 650,000 tons of shale oil, equivalent to ~13,000 bbl/d. Fushun Bureau of Mines will produce the largest amount of shale oil in China, about 350,000 tons in 2011 (6800 bbl/d). The oil shale of the East open pit mine (with Fischer Assay only 5.5%) has begun to be exploited. However, the current shale oil sale price in Fushun has risen to 5500 Chinese Yuan/ton (~120 USD/bbl), even higher than world crude oil price. The ATP unit is planned to be put into operation in this October. In Longkou Mine Group, Shandong province, 20 Fushun retorts were successfully put into operation at the beginning of May 2011. And in Beipiao, Liaoning province, 44 Fushun retorts will be operated this August. In Jimsar County, Xinjiang, the company of Liaoning Chengda will established 24 modified Fushun retorts. The daily capacity is 300t.
- (3) *New retorting technology:* The Luoyuan Petrochemical Engineering Company has undertaken the design work to build a demonstration fluidized retorting unit with the capacity of 2000 tonne powdered oil shale per day, for China Coal Group Longjiang Coal Chemical Company. The Daqing Oil Field Company cooperating with the Dalian University of Technology is constructing a demonstration unit for retorting particulate oil shale with the daily capacity of 2000 t/d. It will be finished and put into operation in 2012.
- (5) *Research work:* China University of Petroleum is continuing the research, evaluation and development work for several domestic and foreign oil shale deposits, and has conducted hydrotreating of shale oil.
- (6) *Books published:* New printed edition of the Chinese professional book, titled *Oil Shale - Petroleum Alternative* has been published. The English edition has been sold at 30th Oil Shale Symposium and will also be available at the 31st Symposium, with the help of Dr. Jeremy Boak.