

## **CCOP-DANIDA**

### **ICB-CCOP 1 Institutional Capacity Building Project**

#### **Yinggehai-Song Hong Basin Case Study Field Study in Hainan Island**

**April 9-12, 2006, Hainan Island, China**

#### **Report on Fieldtrip**

### **Date and Venue:**

The fieldtrip was held from 9<sup>th</sup> to 12<sup>th</sup> April 2006 in Hainan Island, China

Local Organizer: Qingdao Institute of Marine Geology, China Geological Survey  
Guangzhou Marine Geological Survey, China Geological Survey  
China National Offshore Oil Corporation (CNOOC)

### **Participants:**

Twelve (12) geoscientists from six (6) different agencies/institutes in Vietnam and China attended the fieldtrip.

The represented agencies/institutes were:

- ❖ Qingdao Institute of Marine Geology
- ❖ Guangzhou Marine Geological Survey
- ❖ China National Offshore Oil Corporation (CNOOC)
- ❖ Hainan Geological Survey, Hainan Bureau of Geology and Mineral Resource
- ❖ Vietnam Petroleum Institute
- ❖ PetroVietnam
- ❖ CCOP TS

The detailed list of participants is attached as Annex 1.

### **Agenda:**

The detailed agenda of the fieldtrip is provided as Annex 2.

### **Background of the Fieldtrip:**

Yinggehai-Song Hong Basin Case Study Field Study was proposed during the ICB-CCOP1 Project 1<sup>st</sup> Vietnam Workshop December 2005 and conformed during the ICB-CCOP1 Project 1<sup>st</sup> Malaysia Workshop February 2006. This field study is composed of two parts, one part is the field

study in Hainan Island, China, the eastern on shore area to the Yinggehai-Song Hong basin, another part is the field study in Hanoi Though, Vietnam, the western on shore area to the Yinggehai-Song Hong basin. All these two fieldtrips are kindly financial sponsored and supported by Chinese and Vietnamese partner agencies. The objectives are as followed:

1. To build confidence between the Chinese and Vietnamese research team collaborating in the case study;
2. To enhance the research cooperation toward the case study;
3. To share the existent knowledge and experience;
4. To exchange the geoscientific views through the discussion.
5. To figure out the tectonic background, forming mechanism and basin evolution history of the Yinggehai-Song Hong basin.

## **Record of the Fieldtrip:**

The local organizer invited the very experienced fieldtrip guide Dr. Long Wenguo from Hainan Geological Survey, Hainan Bureau of Geology and Mineral Resource, who has been working there for about 17 years.

During the 3 days fieldtrip, participants observed all the exposures of stratigraphy sequences from Proterozoic time to Quaternary time in Hainan Island. The outcrops are included the oldest metamorphic basement rock, volcanic rock, pluton, marine sequence sedimentary rock, non-marine sequence sedimentary rock and the youngest quaternary beach rock. Lots of samples have been collected during the fieldtrip. The geological boundaries such as faults, folds and unconformity contacts have been observed. During the fieldtrip, the Chinese and Vietnamese geoscientists had very good discussions and exchanged their geo-scientific views on the regional geology as well as the geology of the Yinggehai-Song Hong basin. It is a pity that there is less late Tertiary outcrop in Hainan Island. The experienced sedimentologist Mr. Ly Truong Phuong, from PetroVietnam, was very active to share his knowledge and experience on the equivalent geology sequence in Vietnamese side. The participants showed full of their enthusiasm for the regional geology, since this is the first time of big group of Chinese and Vietnamese geoscientists to have the field study in Hainan Island.

Input of the fieldtrip is most come from the knowledge and experience of Chinese local geological research institute as well as the experience from Vietnamese experts. In addition, as mentioned before, all the field study costs are kindly provided from the ICB-CCOP1 Project China partner agencies. Their generous contributions are highly appreciated.

Obviously, the output and the impact of this joint fieldtrip are significant. The direct and indirect achievements are as followed:

- ❖ The confidence of cooperation in this region has been built between the Chinese and the Vietnamese geoscientists.
- ❖ The rock samples have been collected during the fieldtrip, the test result will provide the solid data for the Yinggehai-Song Hong basin case study.
- ❖ The experienced Chinese and Vietnamese geoscientists exchanged their scientific views

during the field study through analog analysis of the outcrops from the Chinese side and Vietnamese side.







- ❖ The existing knowledge and experience has been shared through the discussion, which will benefit both sides.

It is the first time that a big group of the Chinese and Vietnamese geoscientists from six different agencies/institutes in Vietnam and China to have the field study together in Hainan Island, China. This is a milestone in the history of the cooperation between Chinese and Vietnamese geoscientists to carry out the preliminary joint study. Under the CCOP umbrella, through the ICB-CCOP1 Project, the members of the Yinggehai-Song Hong basin case study from both of China and Vietnam built the common trust and found the common interests which will do more help for them to understand more regional geology in this area, especially the hydrocarbon potential in this cross-border area, as well as understand each other. It is one of some important fundamental works for preparation of the future cooperation between China and Vietnam of utilization and joint development of hydrocarbon resources in this region toward the common interests and social welfare. This will promote the regional peace and social economic sustainable development. Another impact is that both of cross-border case study countries noticed the ICB-CCOP1 Project cross-border case study will benefit both sides, then they are willing to contribute some input by themselves not only limited to scientific but also the finance, so that they will get more outputs from it. Some of the successful cross-border cooperation models have been identified. These kind of experience will be applied in the other similar cross-border projects in the future.

**CCOP-DANIDA Institutional Capacity Building Project ICB-CCOP1  
Yinggehai-Song Hong Basin Case Study Field Study in Hainan Island  
April 9-12, 2006, Hainan Island, China**

**CHINA**

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**CCOP TECHNICAL SECRETARIAT**

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## **Annex2**

**CCOP-DANIDA**  
**Institutional Capacity Building Project ICB-CCOP1**  
**Yinggehai-Song Hong Basin Case Study Fieldtrip Study in Hainan**  
**Island, April 9-11, 2006, Hainan Island, China**  
**Program**

### Day 1: 8 April

Arrival of Participants/Chick-in Haikou Golden Sea View Hotel  
Hotel

### Day 2: 9 April

Haikou-Changjiang

Stop 1: Late Tertiary Marine Sedimentary, Quaternary volcanic rock  
Yangpu Dock, Zhanzhou City

Stop 2: Early-middle Proterozoic Basement  
Gezhen Reservoir, Changjiang County  
(19° 10.863' N, 108° 58.186' E)

Chick-in Changjiang Hotel

Stop 3: Permian Limestone  
Qichaniudi Hill  
(19° 05.998' N, 109° 01.438' E)

Stop 4: Proterozoic Iron Ore Mining Site  
Shilu Mine

### Day 3: 10 April

Changjiang-Ledong-Sanya\Chick-in Sanya Tianze Haiyun Hotel)

Stop 5: Silurian Slate  
Changhua River

(18° 56.367' N, 108° 56.432' E)

Stop 6: Mid-late Permian Limestone

Jiangbian Village, Changhua

(18° 55.176' N, 108° 55.993' E)

Stop 7: Late Permian Marine Shale and Silt-Shale

Jiangbian Village, Changhua

(18° 53.162' N, 108° 59.192' E)

Stop 8: Late Permian Marine Silt-Shale

Jiangbian Village, Changhua

(18° 51.976' N, 109° 00.374' E)

Stop 9: Ordovician Phyllite

Jiangbian Village, Changhua

(18° 49.828' N, 109° 03.255' E)

Stop 10: Cretaceous Terrestrial Sedimentary Rock

Shanrong

(18° 48.217' N, 109° 04.233' E)

Stop 11: Cretaceous Terrestrial Sedimentary Rock

Shanrong

(18° 48.208' N, 109° 05.180' E)

Stop 12: Middle Proterozoic Basement

Ewen Hill, Chongpo Town, Ledong County

(18° 35.451' N, 108° 54.775' E)

Day 4: 11 April

Sanya\Sanya Tianze Haiyun Hotel

Stop 13: Quaternary Beach Sedimentary Rock



Dadonghai, Shanya

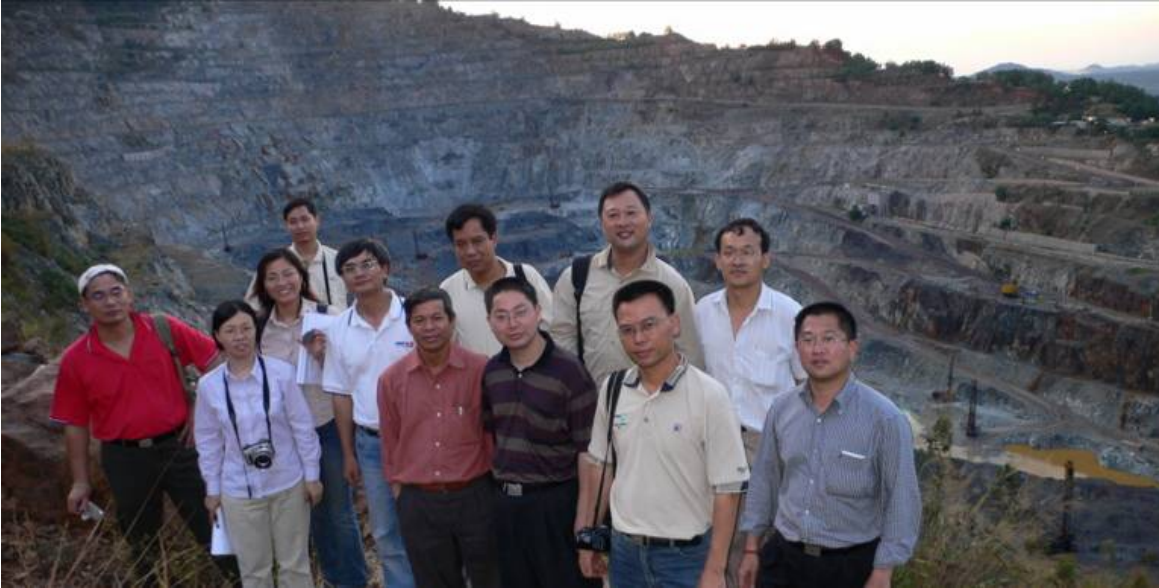
Day 5: 12 April

Sanya- Haikou(Departure)

Late Tertiary volcanic rock along the road



INSTITUTIONAL CAPACITY BUILDING IN CCOP COUNTRIES,  
PHASE 1 (ICB-CCOPI)



*Group photo of all the ICB-CCOPI, 1<sup>st</sup> China Fieldtrip participants*



*The first day fieldtrip in  
Hainan Island on 9<sup>th</sup> April,  
2006.*



*Outcrop at the road cut.*



*Discussion*



*Lunch time*



*Sample Collection*

*Visiting Boao Asian Forum Site on the way back from fieldtrip*



