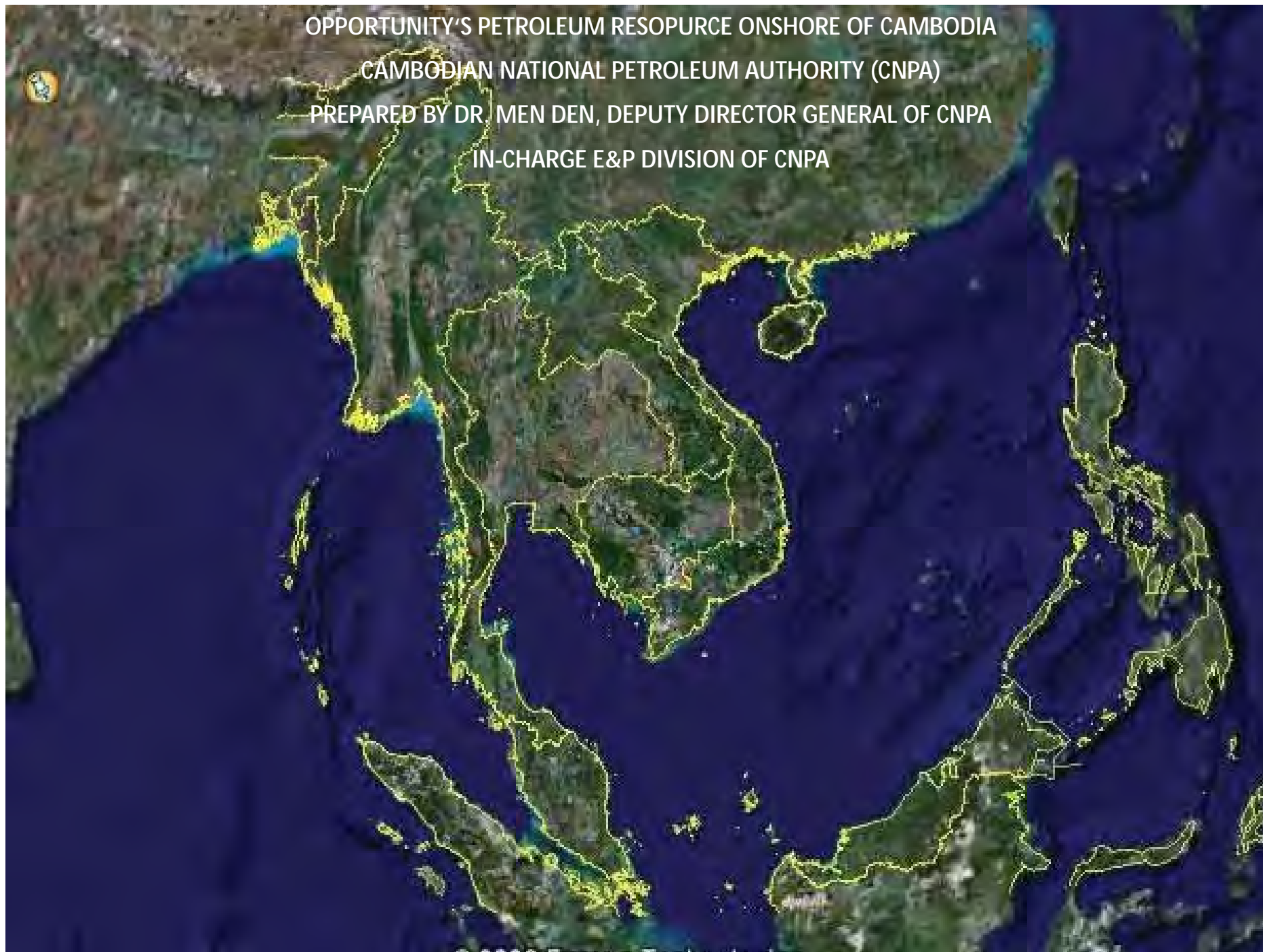
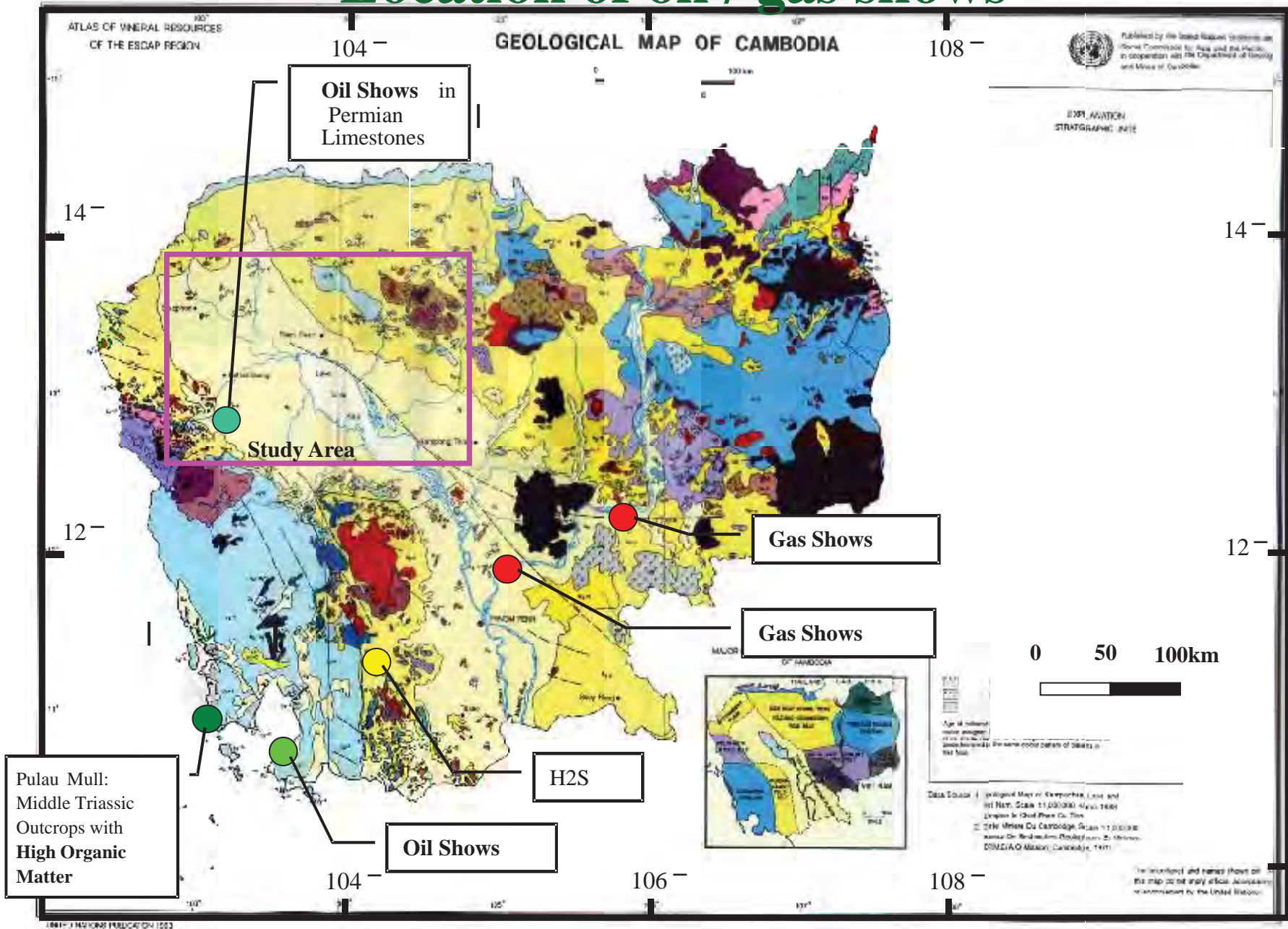


OPPORTUNITY'S PETROLEUM RESOPURCE ONSHORE OF CAMBODIA
CAMBODIAN NATIONAL PETROLEUM AUTHORITY (CNPA)
PREPARED BY DR. MEN DEN, DEPUTY DIRECTOR GENERAL OF CNPA
IN-CHARGE E&P DIVISION OF CNPA



Location of oil / gas shows



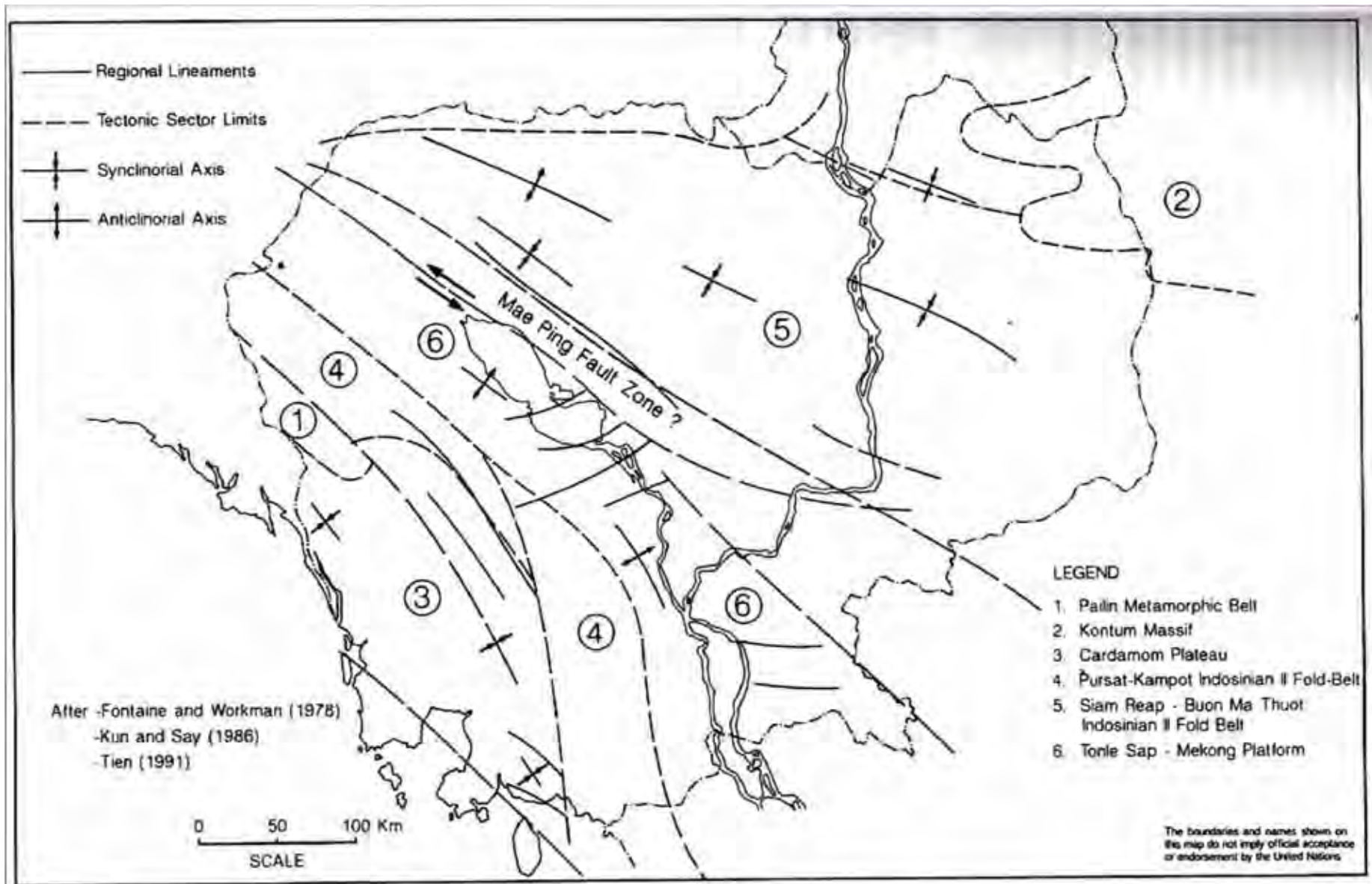
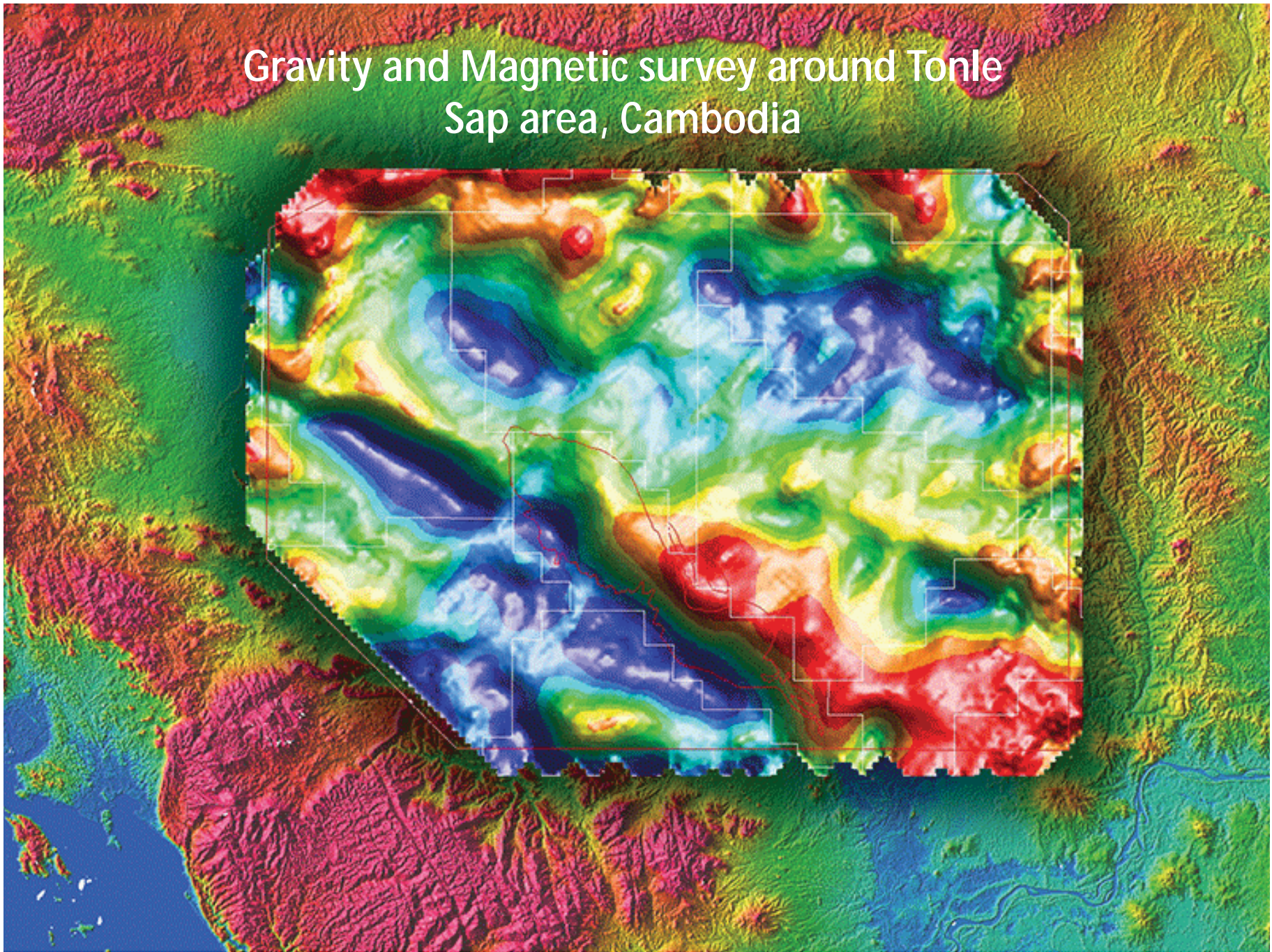
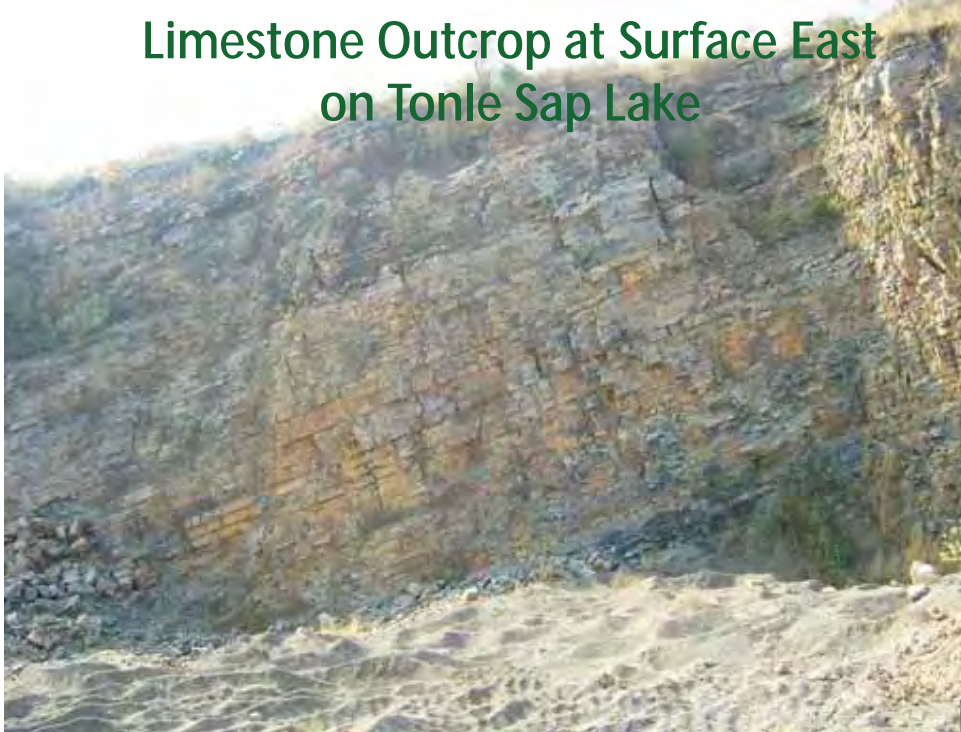


Figure 4. Principal tectonic elements and sectors of Cambodia

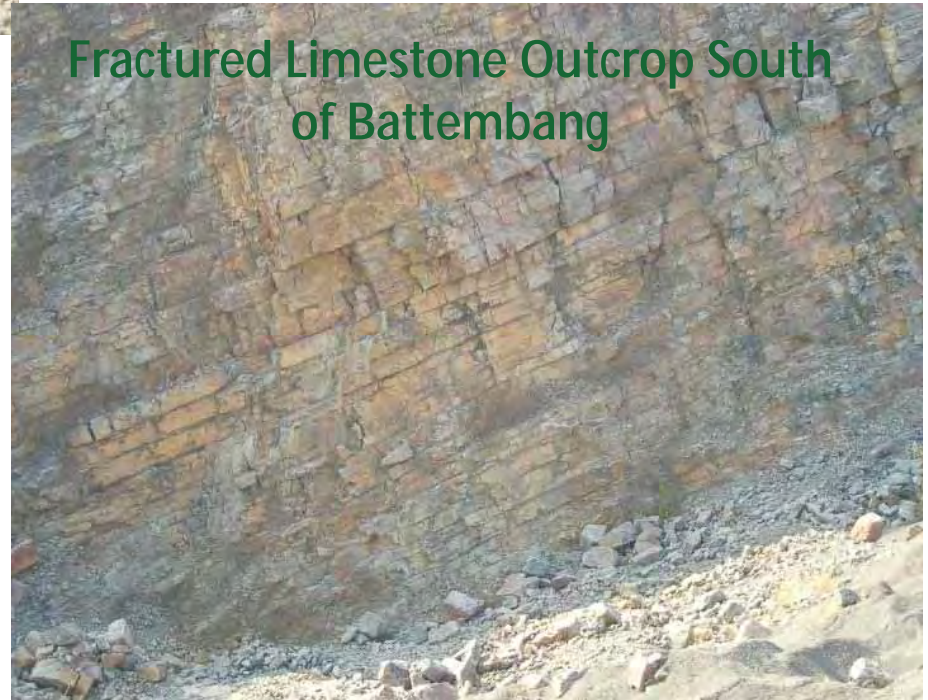
Gravity and Magnetic survey around Tonle Sap area, Cambodia



Limestone Outcrop at Surface East
on Tonle Sap Lake



Fractured Limestone Outcrop South
of Battambang



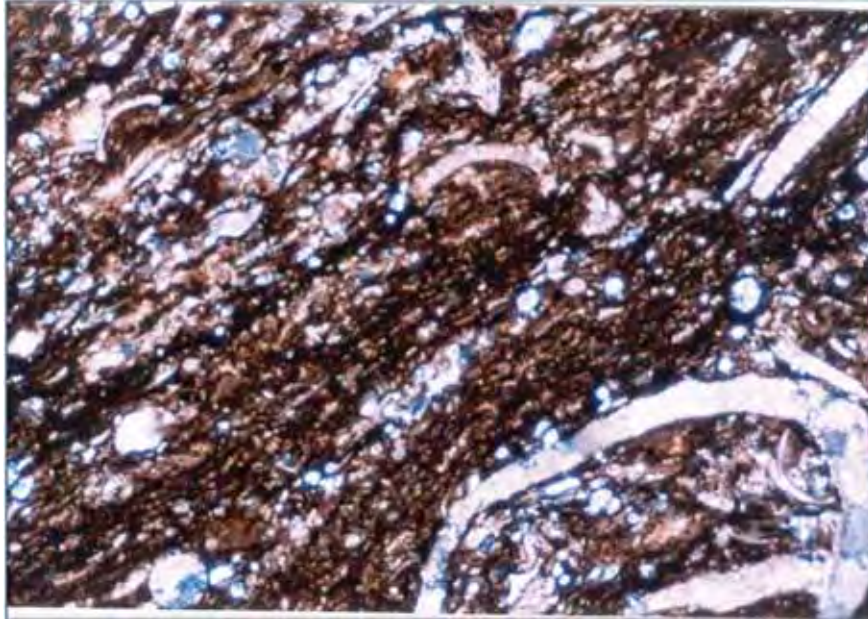
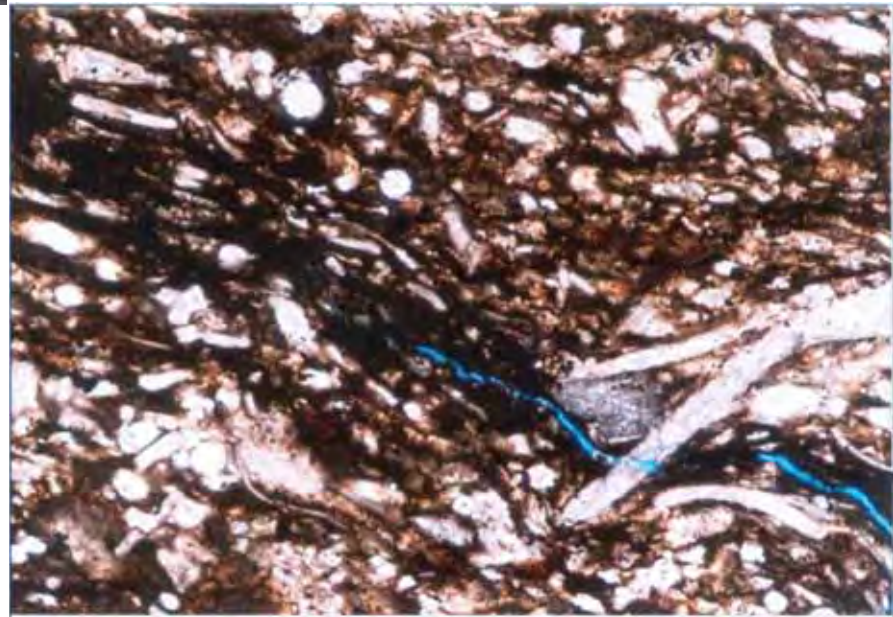


Plate 1: Sample No. ST-17

Fossiliferous packstone consists mainly of fossils of 0.05-1.6mm in size (F), volcanic fragments (V) and micrite aggregates that are stained by limonite and ilmenite (darkish brown). Fossil's composition is mainly mollusks, bivalve, forams, and lesser others in which their chambers/walls are occluded mostly by secondary calcite (light pinkish).

Plate 2: Sample No. ST-17

Fossiliferous packstone is similar to Plate 1, but with open nicol to observe the presence minor of microfracture pores of 0.01-0.02mm wide and more than 2.0mm long (blue) is created possibly due to the thin section preparation?



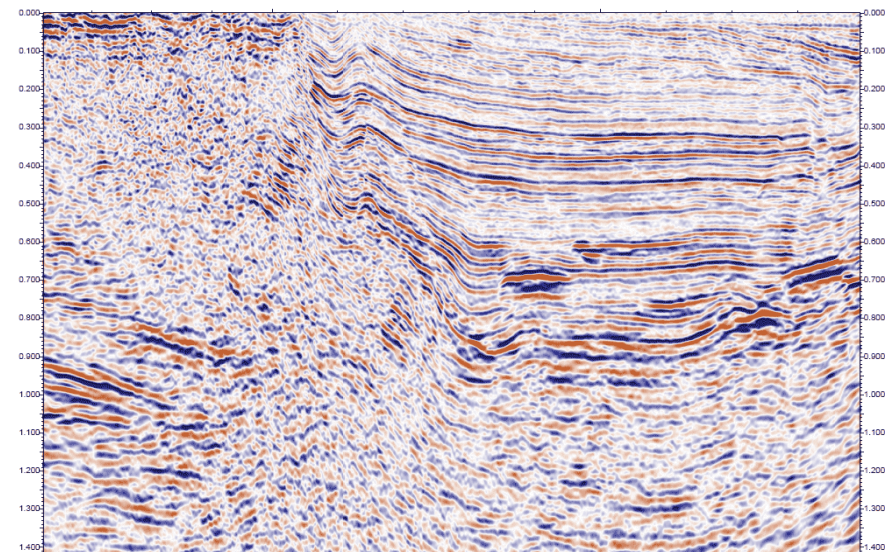
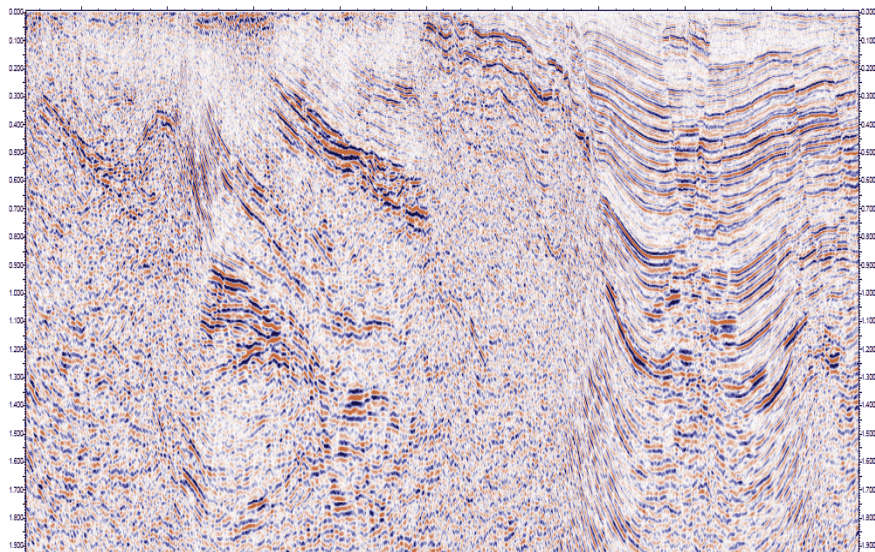
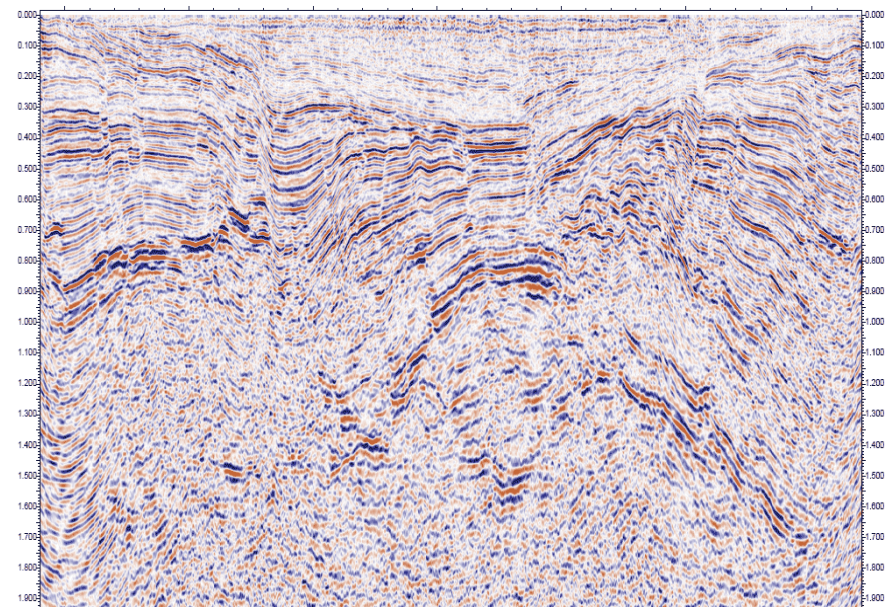
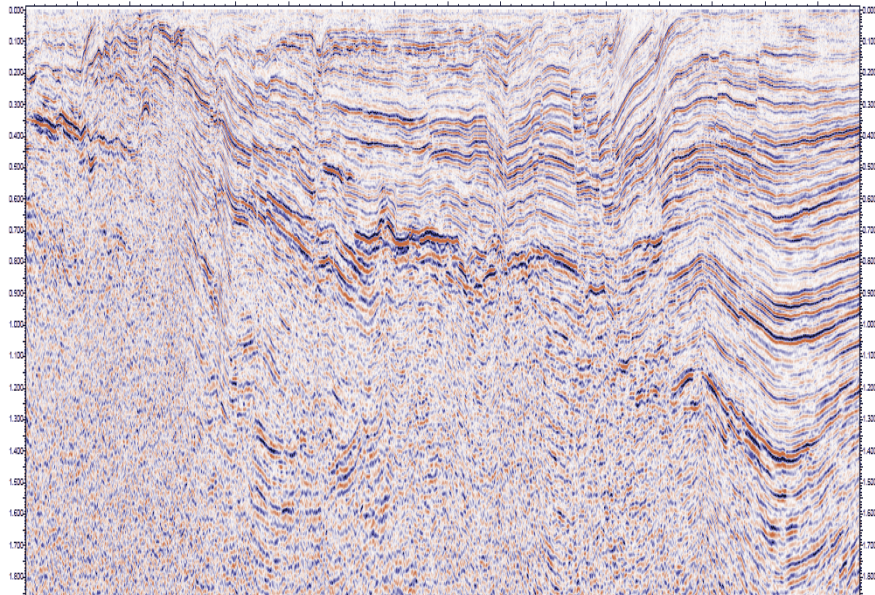


1ST OPEN PIT OF COAL MINE IN CAMBODIA

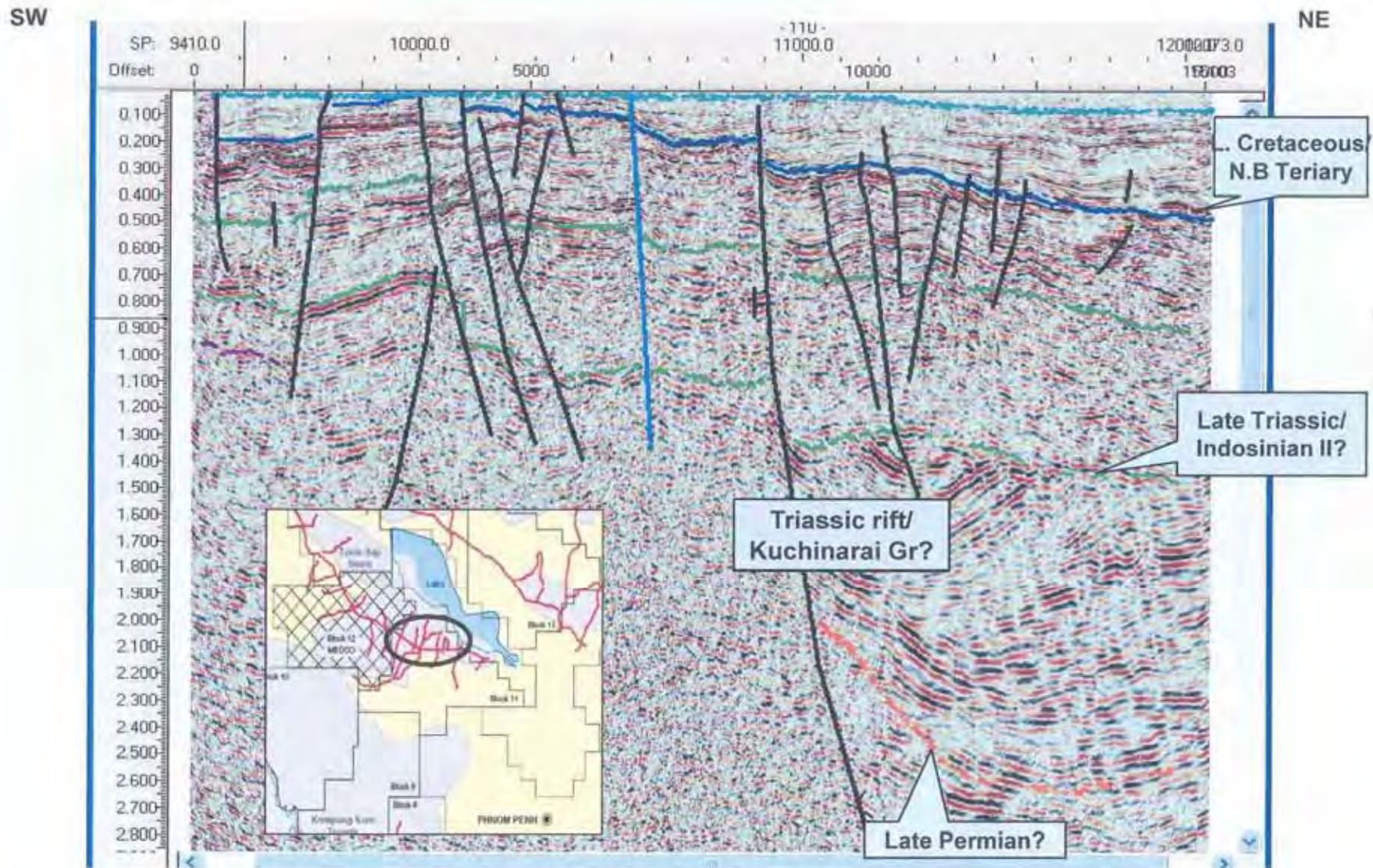
COAL'S STOCK PILE



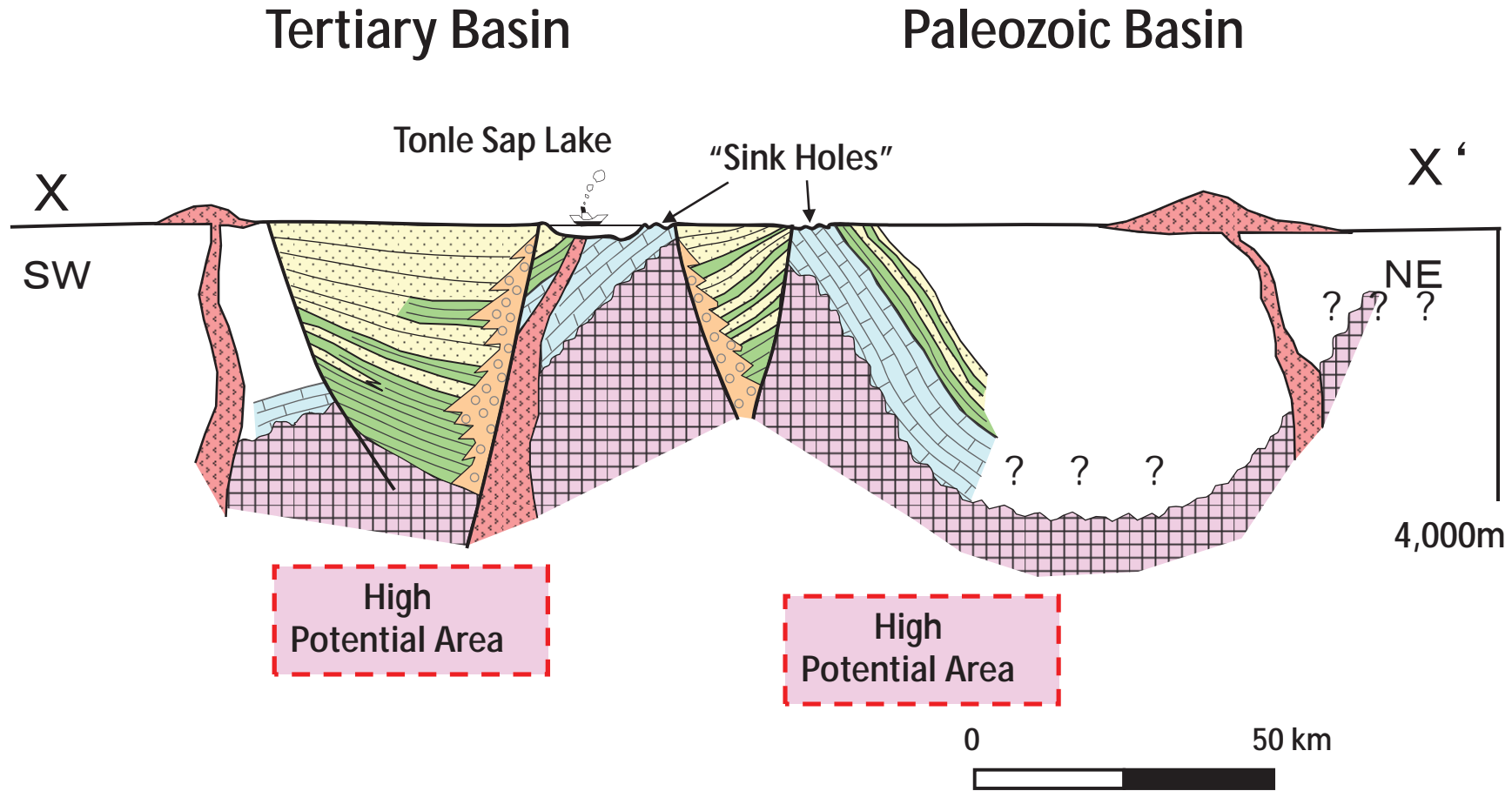
2 D seismic line around Tonle Sap area



CROSS SECTION 2 D SEISMIC IN THE SW – NE OF CAMBODIA



Schematic Geologic Cross Section





The Source for Critical Information and Insight

GLOBAL EXPLORATION & PRODUCTION SERVICE

CAMBODIA GENERAL

SCALE: 1:100,000 MAP SHEETS: SA

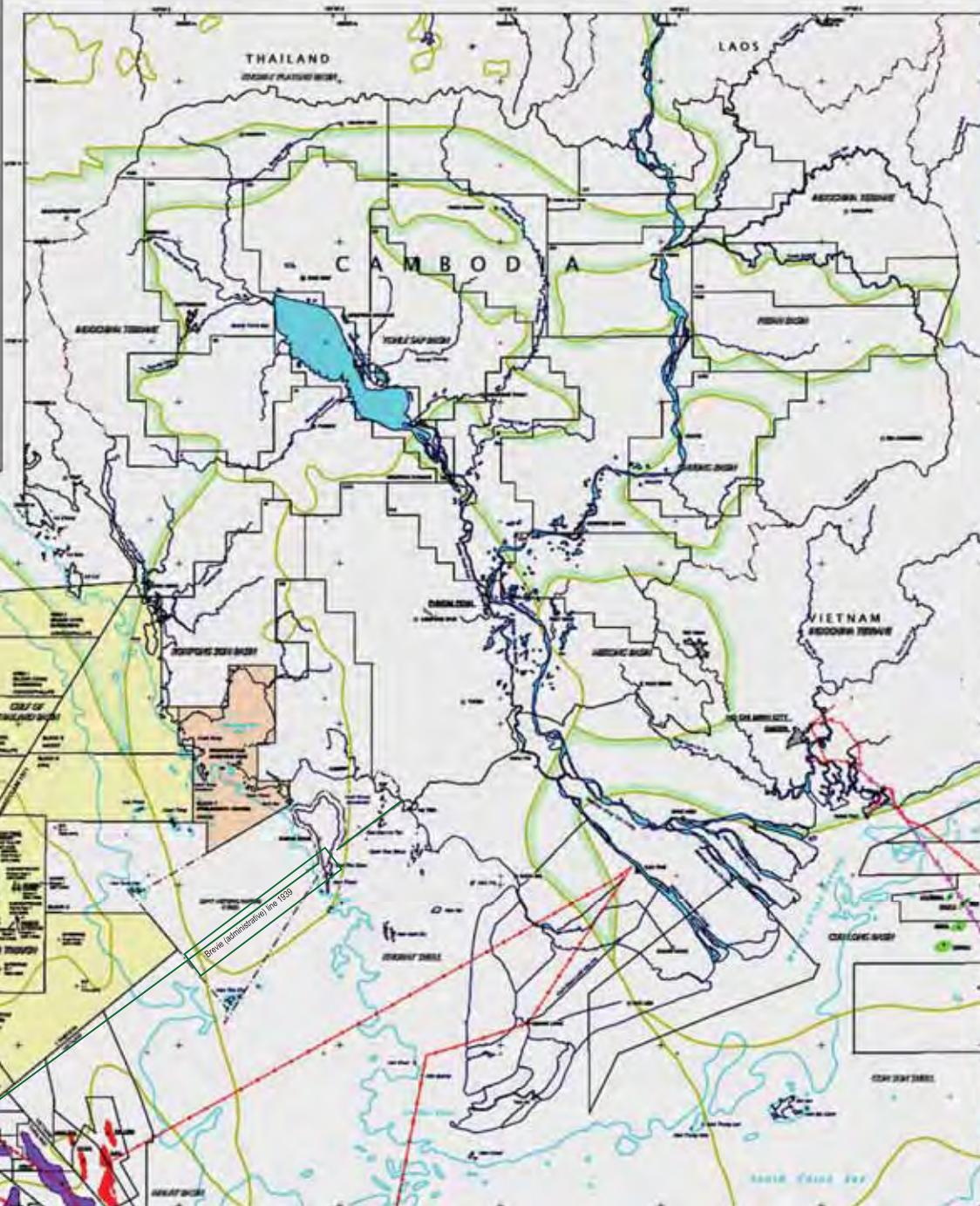
DATE: MAY 2007

PRODUCTION: MAY 2007

REVISIONS: 1.0

PROJECT: CAMBODIA GENERAL

MAP COVERAGE



LEGEND

Geological Features:

- Geological Formations (various colors and patterns)
- Geological Boundaries (solid and dashed lines)
- Structural Features (folds, faults)
- Topographic Features (contour lines)
- Hydrographic Features (rivers, lakes)
- Administrative Boundaries (provinces)
- Infrastructure (roads, railways)
- Settlements (villages, towns)

LIST OF BATHYMETRIES

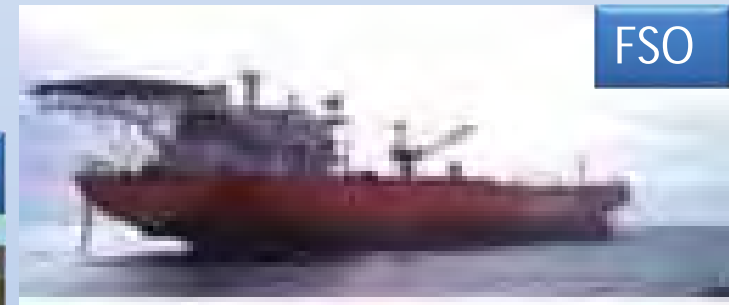
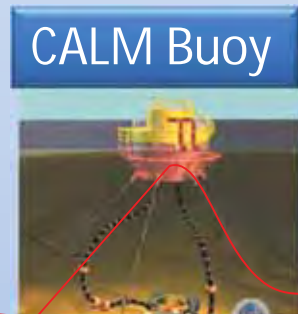
Area	Depth (m)	Reference
Bay of Thailand	10-20	1:50,000
Bay of Thailand	20-30	1:50,000
Bay of Thailand	30-40	1:50,000
Bay of Thailand	40-50	1:50,000
Bay of Thailand	50-60	1:50,000
Bay of Thailand	60-70	1:50,000
Bay of Thailand	70-80	1:50,000
Bay of Thailand	80-90	1:50,000
Bay of Thailand	90-100	1:50,000
Bay of Thailand	100-110	1:50,000
Bay of Thailand	110-120	1:50,000
Bay of Thailand	120-130	1:50,000
Bay of Thailand	130-140	1:50,000
Bay of Thailand	140-150	1:50,000
Bay of Thailand	150-160	1:50,000
Bay of Thailand	160-170	1:50,000
Bay of Thailand	170-180	1:50,000
Bay of Thailand	180-190	1:50,000
Bay of Thailand	190-200	1:50,000
Bay of Thailand	200-210	1:50,000
Bay of Thailand	210-220	1:50,000
Bay of Thailand	220-230	1:50,000
Bay of Thailand	230-240	1:50,000
Bay of Thailand	240-250	1:50,000
Bay of Thailand	250-260	1:50,000
Bay of Thailand	260-270	1:50,000
Bay of Thailand	270-280	1:50,000
Bay of Thailand	280-290	1:50,000
Bay of Thailand	290-300	1:50,000
Bay of Thailand	300-310	1:50,000
Bay of Thailand	310-320	1:50,000
Bay of Thailand	320-330	1:50,000
Bay of Thailand	330-340	1:50,000
Bay of Thailand	340-350	1:50,000
Bay of Thailand	350-360	1:50,000
Bay of Thailand	360-370	1:50,000
Bay of Thailand	370-380	1:50,000
Bay of Thailand	380-390	1:50,000
Bay of Thailand	390-400	1:50,000
Bay of Thailand	400-410	1:50,000
Bay of Thailand	410-420	1:50,000
Bay of Thailand	420-430	1:50,000
Bay of Thailand	430-440	1:50,000
Bay of Thailand	440-450	1:50,000
Bay of Thailand	450-460	1:50,000
Bay of Thailand	460-470	1:50,000
Bay of Thailand	470-480	1:50,000
Bay of Thailand	480-490	1:50,000
Bay of Thailand	490-500	1:50,000
Bay of Thailand	500-510	1:50,000
Bay of Thailand	510-520	1:50,000
Bay of Thailand	520-530	1:50,000
Bay of Thailand	530-540	1:50,000
Bay of Thailand	540-550	1:50,000
Bay of Thailand	550-560	1:50,000
Bay of Thailand	560-570	1:50,000
Bay of Thailand	570-580	1:50,000
Bay of Thailand	580-590	1:50,000
Bay of Thailand	590-600	1:50,000
Bay of Thailand	600-610	1:50,000
Bay of Thailand	610-620	1:50,000
Bay of Thailand	620-630	1:50,000
Bay of Thailand	630-640	1:50,000
Bay of Thailand	640-650	1:50,000
Bay of Thailand	650-660	1:50,000
Bay of Thailand	660-670	1:50,000
Bay of Thailand	670-680	1:50,000
Bay of Thailand	680-690	1:50,000
Bay of Thailand	690-700	1:50,000
Bay of Thailand	700-710	1:50,000
Bay of Thailand	710-720	1:50,000
Bay of Thailand	720-730	1:50,000
Bay of Thailand	730-740	1:50,000
Bay of Thailand	740-750	1:50,000
Bay of Thailand	750-760	1:50,000
Bay of Thailand	760-770	1:50,000
Bay of Thailand	770-780	1:50,000
Bay of Thailand	780-790	1:50,000
Bay of Thailand	790-800	1:50,000
Bay of Thailand	800-810	1:50,000
Bay of Thailand	810-820	1:50,000
Bay of Thailand	820-830	1:50,000
Bay of Thailand	830-840	1:50,000
Bay of Thailand	840-850	1:50,000
Bay of Thailand	850-860	1:50,000
Bay of Thailand	860-870	1:50,000
Bay of Thailand	870-880	1:50,000
Bay of Thailand	880-890	1:50,000
Bay of Thailand	890-900	1:50,000
Bay of Thailand	900-910	1:50,000
Bay of Thailand	910-920	1:50,000
Bay of Thailand	920-930	1:50,000
Bay of Thailand	930-940	1:50,000
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Bay of Thailand	950-960	1:50,000
Bay of Thailand	960-970	1:50,000
Bay of Thailand	970-980	1:50,000
Bay of Thailand	980-990	1:50,000
Bay of Thailand	990-1000	1:50,000

Review Information Line 1039

FLOW DIAGRAM OF OIL PRODUCTION IN APSARA FIELD

PHASE 1 A

- CPP (1)
- CALM Buoy (1)
- Pipe line (1)
- FSO (1)



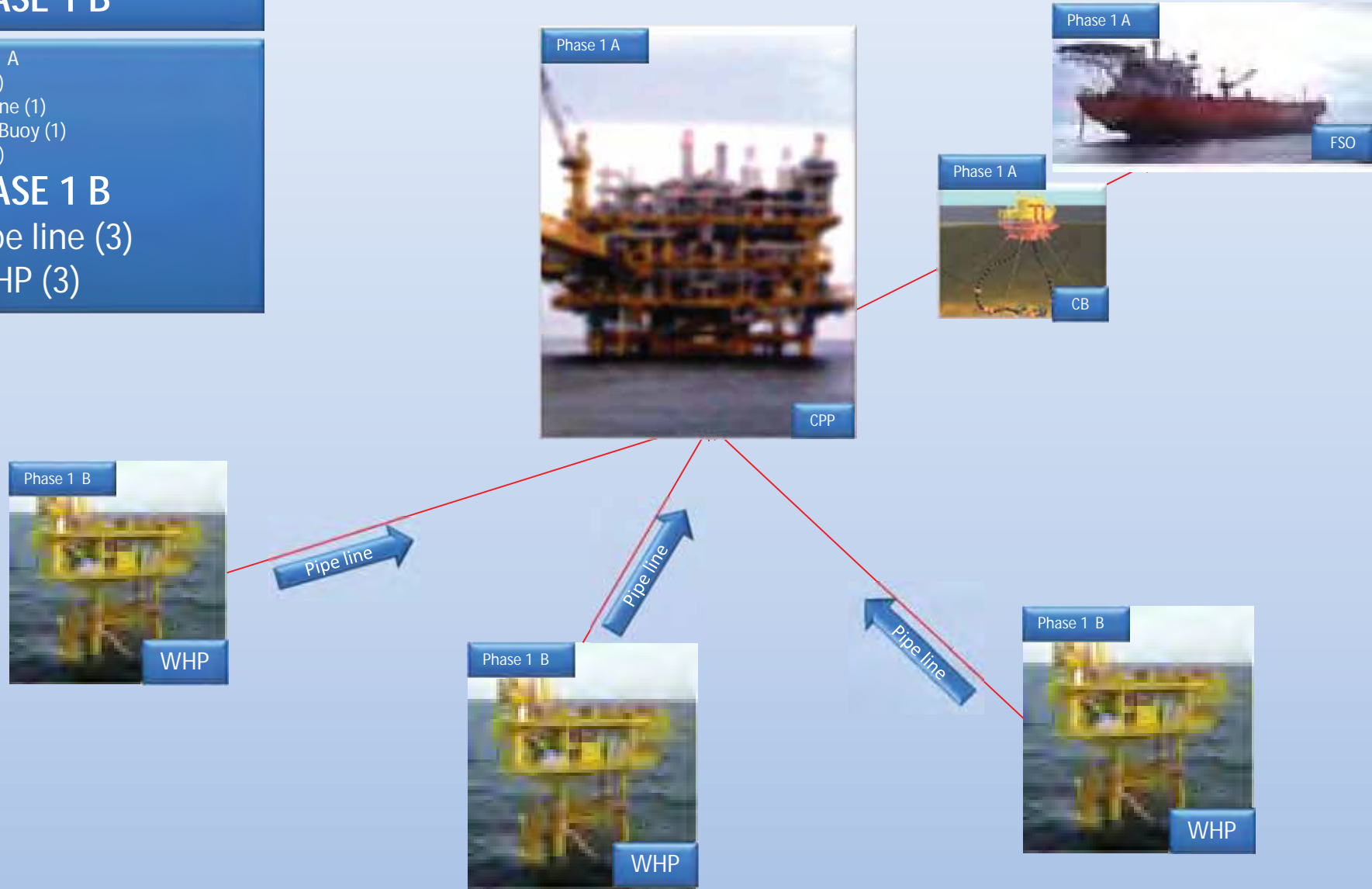
FLOW DIAGRAM OF OIL PRODUCTION IN APSARA FIELD

PHASE 1 B

- Phase 1 A
- CPP (1)
- Pipe Line (1)
- CALM Buoy (1)
- FSO (1)

PHASE 1 B

- Pipe line (3)
- WHP (3)

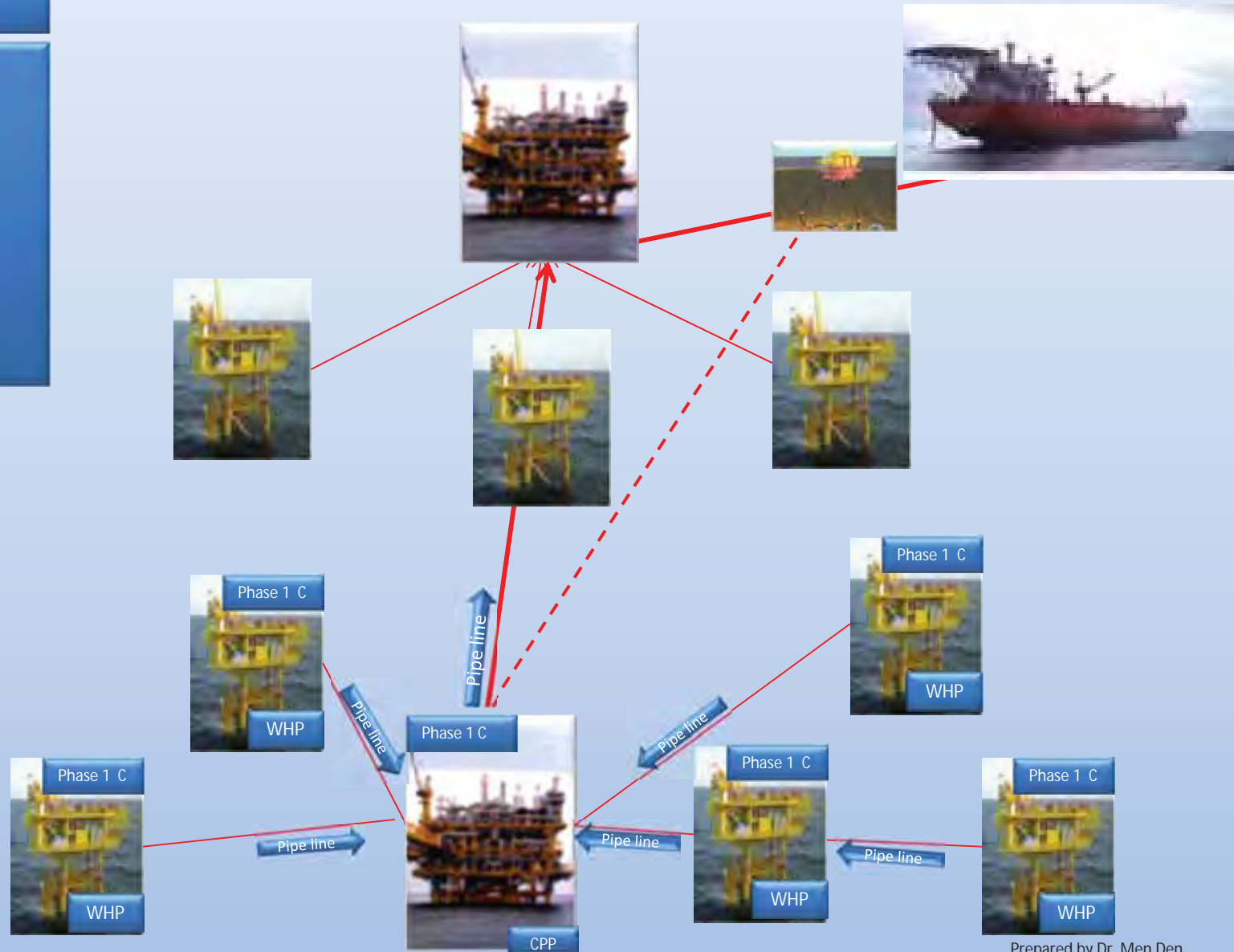


FLOW DIAGRAM OF OIL PRODUCTION IN APSARA FIELD

PHASE 1 C

- Phase 1 A
 - CPP (1)
 - Pipe Line (1)
 - CALM Buoy (1)
 - FSO (1)
- Phase 1 B
 - Pipe Lines (3)
 - WHP (3)

- PHASE 1 C
 - CPP (1)
 - WHP (5)
 - Pipe line (6)



GEOLOGICAL AND BLOCK MAPS OF CAMBODIA

