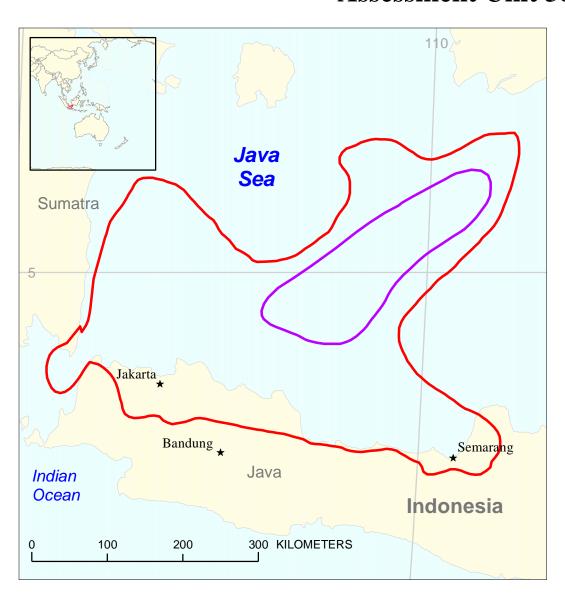
# **Billiton Basin Hypothetical Assessment Unit 38240401**



Billiton Basin Hypothetical Assessment Unit 38240401

Northwest Java Basin Geologic Province 3824

**USGS PROVINCE:** Northwest Java Basin (3824) **GEOLOGIST:** M.G. Bishop

**TOTAL PETROLEUM SYSTEM:** Tertiary-Cenozoic (382404)

**ASSESSMENT UNIT:** Billiton Basin Hypothetical (38240401)

**DESCRIPTION:** This petroleum system consists of offshore sedimentary basins mapped as containing more than 2000 m of Cenozoic sediments. Several wells have been drilled to basement and have encountered more than 2500 m of sedimentary column. The basins might contain lacustrine sediments or coals and, extrapolating from the general depositional history of the province, could be overlain by clastic fluvial, shoreline, deltaic, and marine deposits as well as carbonate platform deposits.

**SOURCE ROCKS:** No possible source rock has been described.

**MATURATION:** Maturation might be expected at between 1000 m and 2000 m burial depth.

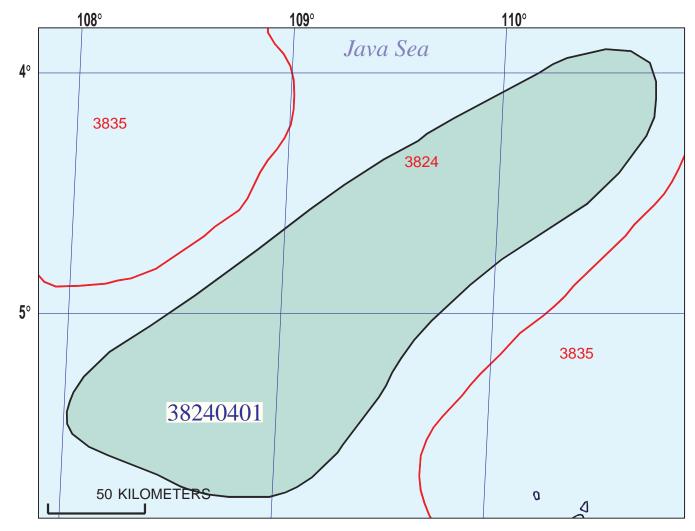
**MIGRATION:** Migration could occur vertically and laterally.

**RESERVOIR ROCKS:** Clastic and carbonate reservoirs might be present.

**TRAPS AND SEALS:** The Pliocene to Pleistocene Cisubuh Formation is composed of claystones that act as seals in the province. No trap style has been described. Basement highs have been encountered during drilling suggesting that possible drape structures, stratigraphic pinchouts or carbonate buildups could be present.

### **REFERENCES:**

- Hamilton, Warren, 1974, Map of sedimentary basins of the Indonesian Region: U.S. Geological Survey Miscellaneous Investigations Series MAP 1-875-B.
- Kingston, John, 1988, Undiscovered Petroleum Resources of Indonesia: U.S. Geological Survey Open-File Report 88-379, 217 p.
- Noble, R.A., Pratomo, K.H., Nugrahanto, K., Ibrahim, A.M.T., Prasetya, I., Mujahidin, N., Wu, C.H., and Howes, J.V.C., 1997, Petroleum systems of Northwest Java, Indonesia, *in* Howes, J.V.C., and Noble, R.A., eds., Proceedings of an International Conference on Petroleum Systems of SE Asia and Australasia: Indonesian Petroleum Association, p. 585-600.
- Yaman, F., Ambismar, T., Bukhari, T., 1991, Gas exploration in Parigi and pre-Parigi carbonate buildups, NW Java Sea: Proceedings of the Twentieth Annual Convention; Indonesian Petroleum Association, v. 1, p. 319-346.



### **Billiton Hypothetical** Assessment Unit - 38240401

### **EXPLANATION**

- Hydrography
- Shoreline

Geologic province code and boundary

- --- Country boundary
- Gas field centerpoint

Assessment unit 38240401 — Oil field centerpoint code and boundary

Projection: Robinson. Central meridian: 0

## SEVENTH APPROXIMATION NEW MILLENNIUM WORLD PETROLEUM ASSESSMENT DATA FORM FOR CONVENTIONAL ASSESSMENT UNITS

Date:	5/25/99			
Assessment Geologist:	nt Geologist: R.T. Ryder			
Region:	Asia Pacific	Number:	3	
Province:		Number:	3824	
Priority or Boutique	Priority			
	Tertiary-Cenozoic		Number:	382404
Assessment Unit:	Billiton Basin Hypothetical		Number:	38240401
* Notes from Assessor	-			
	CHARACTERISTICS OF A	SSESSMENT UNIT		
Oil (<20,000 cfg/bo overall) o	r Gas (≥20,000 cfg/bo overall)	:		
	e?mmbo ential to be added to reserves i			
Number of discovered fields e	xceeding minimum size:	Oil:	Gas:	
	Frontier (1-13 field	ds) Hypothet	tical (no fields)	
		,	(10 11010)	
Median size (grown) of discov	ered oil fields (mmboe):			
,	1st 3rd	2nd 3rd	3rd 3rd	
Median size (grown) of discov	ered gas fields (bcfg):			
,	1st 3rd	2nd 3rd	3rd 3rd	
<ol> <li>ROCKS: Adequate reserved</li> <li>TIMING OF GEOLOGIC EV</li> <li>Assessment-Unit GEOLOGIC</li> <li>ACCESSIBILITY: Adequate</li> </ol>	es:  eum charge for an undiscovere  pirs, traps, and seals for an und  ENTS: Favorable timing for an  C Probability (Product of 1, 2,  te location to allow exploration	ed field ≥ minimum size iscovered field ≥ minimun undiscovered field ≥ minimun and 3):	m size inimum size 	ce (0-1.0)
Number of Undiscovered Fig	UNDISCOVERED  elds: How many undiscovered  (uncertainty of fixed b	fields exist that are > mi	nimum size?:	
Oil fields:	min. no. (>0)	median no.	max no.	
Gas fields:	min. no. (>0)	median no.	max no.	
Size of Undiscovered Fields	: What are the anticipated size (variations in the sizes of		fields?:	
Oil in oil fields (mmbo)	min siza	median size	max. size	
Gas in gas fields (bcfg):		median size	max. size	
Cas in gas licius (bolg)		IIIGUIAII SIZE	IIIAA. SIZE	

### Assessment Unit (name, no.)

#### AVERAGE RATIOS FOR UNDISCOVERED FIELDS, TO ASSESS COPRODUCTS (uncertainty of fixed but unknown values) Oil Fields: minimum median maximum Gas/oil ratio (cfg/bo)..... NGL/gas ratio (bngl/mmcfg)..... Gas fields: minimum median maximum Liquids/gas ratio (bngl/mmcfg)..... Oil/gas ratio (bo/mmcfg)..... SELECTED ANCILLARY DATA FOR UNDISCOVERED FIELDS (variations in the properties of undiscovered fields) Oil Fields: minimum median maximum API gravity (degrees)..... Sulfur content of oil (%)..... Drilling Depth (m) ..... Depth (m) of water (if applicable)..... Gas Fields: minimum median maximum Inert gas content (%)..... CO<sub>2</sub> content (%)..... Hydrogen-sulfide content (%)..... Drilling Depth (m).....

Depth (m) of water (if applicable).....

Assessment Unit (name, no.)

## ALLOCATION OF UNDISCOVERED RESOURCES IN THE ASSESSMENT UNIT TO COUNTRIES OR OTHER LAND PARCELS (uncertainty of fixed but unknown values)

1represents	8	areal % of the total assessment unit		
Oil in Oil Fields: Richness factor (unitless multiplier):	minimum	median	maximum	
Volume % in parcel (areal % x richness factor): Portion of volume % that is offshore (0-100%)				
Gas in Gas Fields:	minimum	median	maximum	
Richness factor (unitless multiplier):				