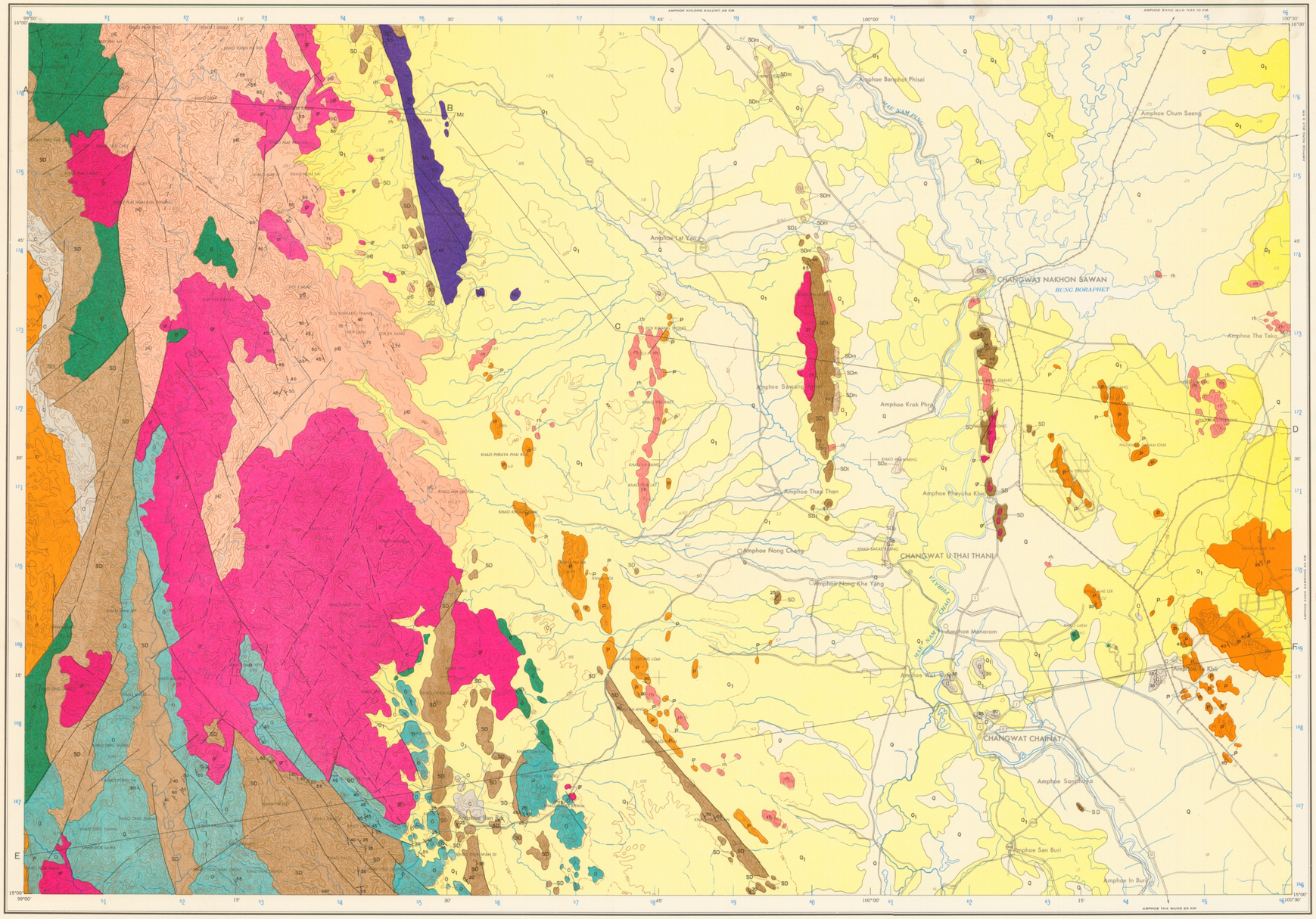
CHANGWAT NAKHON SAWAN

GEOLOGICAL MAP OF THAILAND, 1:250,000

FIRST EDITION

REFER TO THIS MAP AS: ND 47-3



Q	Recent flood plain alluvials, sands, silts and back swamps.		RECENT	CENOZOIC
Q_1	Old alluvial fan, colluvial and old flood in deposits of high and low terraces consisting of gravels, sands, silts and laterite.		PLEISTOCENE	
	UNCONFORMITY			
Mz	Mainly red sandstones, shales and minor conglomerates, volcanic conglomerate.	KHAO CHONKAN FORMATION	? JURASSIC	MESOZOIC
	UNCONFORMITY			
P	Bedded to massive, grey limestones with fusulinids, minor shale, chert, and conglomerate.	RATBURI GROUP	PERMIAN	PALAEOZOIC
C	Intercalations of red shale sandstone, quartz sandstone; intrastified conglomerates; and also reddish grey shale and sandstone.	TAKLI SANDSTONES	?CABONIFEROUS	
	UNCONFORMITY			
SDc	Mainly chert beds and thinly interbedded tuff and shale.	KHAO GOB CHERTS	DEVONIAN SILURIAN	
SDm	Mainly grey to white, massive to poorly bedded marble	KHAO MANO MARBLES		
SDt	Mainly quartz feldspathic tuff, green schist and graywacke.	KHAO LUANG TUFF		
SD	Undifferentiated sequences of quartzite, phyllite, graywacke, chert beds and local conglomerate.	BAN RAI FORMATION		
	UNCONFORMITY			
O	Mainly well banded, well bedded to massive argillaceous limestone with or without Cephalopods; less common shale and sandstone.	THUNG SONG GROUP	ORDOVICIAN	
€O	Mica schist contorted marble, and minor calc-silicate rocks.	PHUBON MARBLES	CAMBRO-ORDOVICIAN	
€	Quartzite, phyllite and quartz-biotite schist.	HUAI WAI QUARTZITE	CAMBRIAN	
	UNCONFORMITY			
pC	Metamorphic complexes of amphibolite facies; augen gneiss, granite gneiss, biotite-microcline gneiss, quartz feldspathic gneiss, biotite schist, banded quartzite, calc-silicate rocks and marbles.	UTHAI THANI COMPLEXES	PRECAMBRIAN	PROTEROZOIC
	IGNEOUS ROCKS			
gr	Granite, grano-diorite, diorite and quartz feldspathic dikes.		MESOZOIC	
rh	Rhyolite, andesite.			

GEOLOGICAL SYMBOLS

- Contact
- Strike and dip
- Anticline
- Syncline
- Fault
- Thrust Fault
- Fossil Locality
- Mine, Quarry or Alluvial Working
- (Overturned)
- (Inferred)
- (Inferred)
- (Inferred)
- (Inferred)

PUBLISHED BY GEOLOGICAL SURVEY DIVISION, DEPARTMENT OF MINERAL RESOURCES.

PRINTED BY THE ROYAL THAI SURVEY DEPARTMENT

Scale 1:250,000

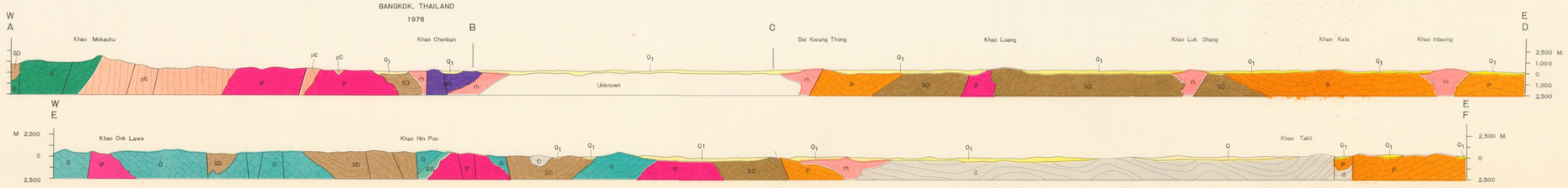
5 0 5 10 15 20 25 30 Kilometers

PISOOT SUDASNA : DIRECTOR GENERAL

KASET PITAKPAIVAN : DIRECTOR

GEOLOGICAL SURVEY DIVISION, DEPARTMENT OF MINERAL RESOURCES

BANGKOK, THAILAND

1976

Compiled by Sangad Bunopas from primary compilation of Visit Sripatanawat (1973), Sangathit Chuaviroj, Chaiyan Hinthong and Sahat Muenlek (geological maps of DH2, 3, 4, 6, 7, 8, 10, 11, 12, and EH 1, 2, 5, 6, 9, 10, 1971 unpublished), Arayа Nakarsart (geological maps of DH 15, 16, 18, 19, 20, 22, 23, 24, 1970, unpublished), Suwat Chaowmiset (geological maps of EH 13, 14, 17, 18, 21, 22 and DH 14, 1971 unpublished) Kanchit Sirinbhakdi, Suthep Srisukh and Woragoon Gaewyana (geologic maps of DH 1, 5, 9, 13, 17, 21, 1971, unpublished)
Additional Surveys by Sangad Bunopas, Sahat Muenlek and Chalermchai Udomrath (1975); Sangad Bunopas and Sin Simsakul (1976)