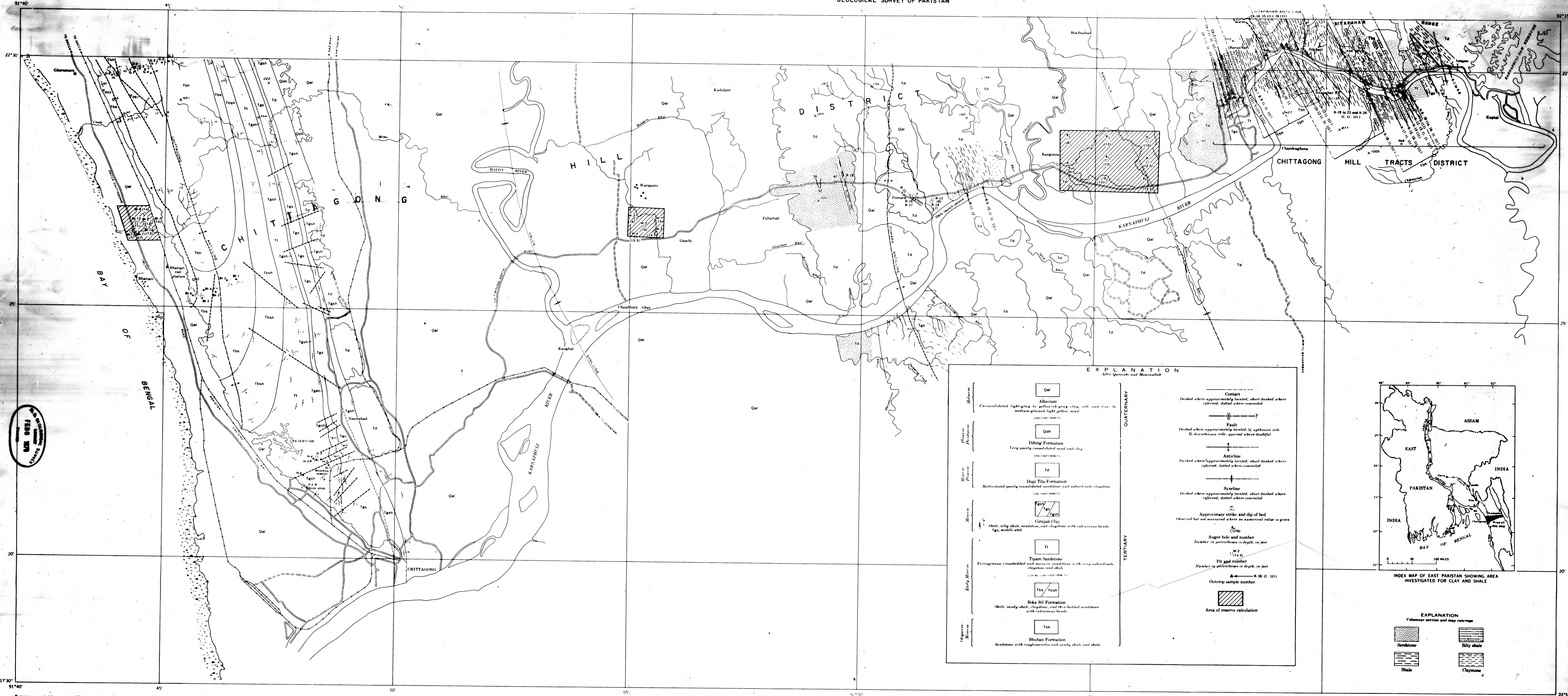


(200)
R-290



EXPLANATION
After Querezh and Munsifallah

<p>Quaternary</p> <ul style="list-style-type: none"> Qal Alluvium Unconsolidated light gray to yellowish gray silt, silt, and fine to medium-grained light yellow sand Qah Diding Formation Very poorly consolidated sand and clay Td Dugi Tila Formation Multicolored poorly consolidated sandstone and subordinated claystone Ts Shale, silty shale, mudstone, and claystone with calcareous bands, Tgs, middle unit Ti Tipam Sandstone Ferruginous, cross-bedded and massive sandstone with or without calcareous claystone and shale Tbr/Tosh Baka Hill Formation Shale, sandy shale, claystone, and thin bedded sandstone with calcareous bands Tsh Bhujan Formation Sandstone with conglomerates and sandy shale and shale 	<p>Tertiary</p> <ul style="list-style-type: none"> Qal Alluvium Qah Diding Formation Td Dugi Tila Formation Ts Shale, silty shale, mudstone, and claystone with calcareous bands, Tgs, middle unit Ti Tipam Sandstone Tbr/Tosh Baka Hill Formation Tsh Bhujan Formation
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CONTACTS

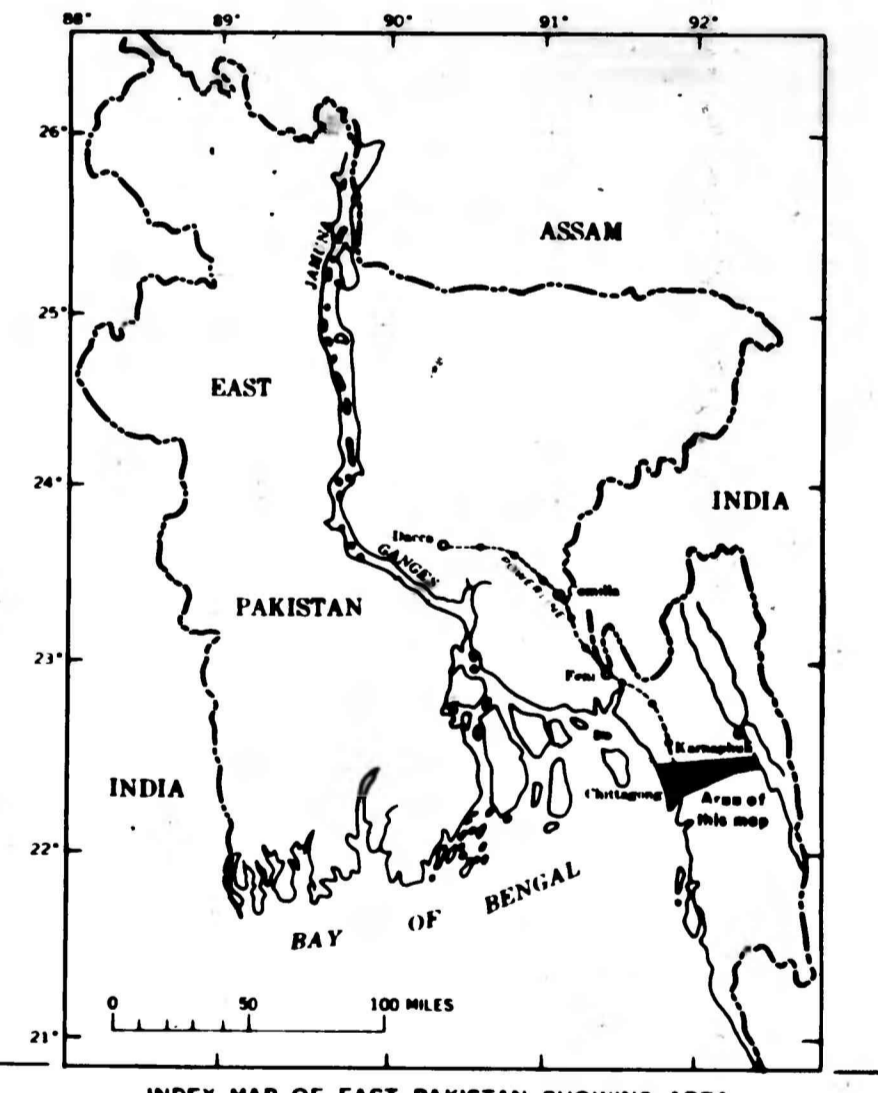
- Contact
- - - - - Contact where approximately located, short dashed where inferred, dotted where concealed
- - - - - Fault
- - - - - Fault where approximately located, U, upthrown side, D, downthrown side, question where doubtful
- - - - - Anticline
- - - - - Anticline where approximately located, short dashed where inferred, dotted where concealed
- - - - - Syncline
- - - - - Syncline where approximately located, short dashed where inferred, dotted where concealed

SYMBOLS

- ~ ~ ~ ~ ~ Approximate strike and dip of bed
- Number in parentheses is depth, in feet
- 100
- 200
- 300
- 400
- 500
- 600
- 700
- 800
- 900
- 1000
- 1100
- 1200
- 1300
- 1400
- 1500
- 1600
- 1700
- 1800
- 1900
- 2000
- 2100
- 2200
- 2300
- 2400
- 2500
- 2600
- 2700
- 2800
- 2900
- 3000
- 3100
- 3200
- 3300
- 3400
- 3500
- 3600
- 3700
- 3800
- 3900
- 4000
- 4100
- 4200
- 4300
- 4400
- 4500
- 4600
- 4700
- 4800
- 4900
- 5000
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- 5200
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- 7000
- 7100
- 7200
- 7300
- 7400
- 7500
- 7600
- 7700
- 7800
- 7900
- 8000
- 8100
- 8200
- 8300
- 8400
- 8500
- 8600
- 8700
- 8800
- 8900
- 9000
- 9100
- 9200
- 9300
- 9400
- 9500
- 9600
- 9700
- 9800
- 9900
- 10000

Other symbols:

- Auger hole and number
- Pit and number
- Outcrop sample number
- ▨ Area of reserve calculation

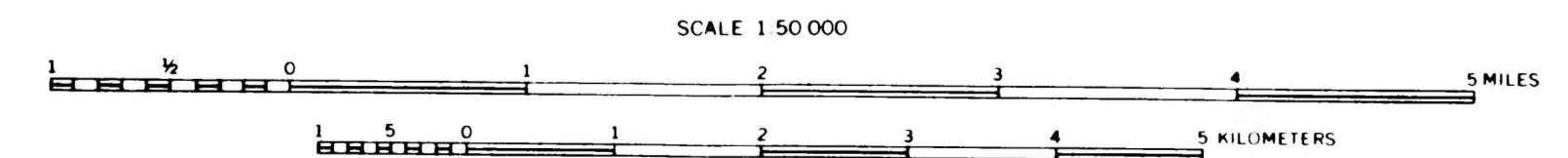


MEASURED SECTION FROM THE CHANDRABAGH LAGE (K368756; TOPO 84B/3) EAST ALONG THE TANGONG-KAPTAL ROAD TO THE SITAPAHAR ANTICLINE (K429752; TOPO 84B/2).

AGE	FORMATION	COLUMNAR SECTION	THICKNESS	DESCRIPTION
MIOCENE-PLIOCENE	DUPI TILA FORMATION		1540'	Sandstone and minor amounts of claystone and silt shale. Sandstone: yellowish brown, fine to medium grained, sub-angular to sub-rounded, moderately to poorly sorted, massive, at places thick bedded, very poorly consolidated, cross bedded, quartz granules, pebbles and clay galls, weathers brown.
			700'	Silty shale light to dark gray, laminated, which gray silt particles along the bedding plane, calcareous silty concretions at places, weathers yellowish gray.
MIOCENE	GIRUJAN CLAY		295'	Sandstone and subordinate shale.
			155'	Shale, gray, thin bedded, weathers bluish gray.
			375'	Sandstone and subordinate shale, sandstone yellow, shale gray.
			325'	Alternating interbedded sandstone and shale.
TIPAM SANDSTONE	TIPAM SANDSTONE		505'	Alternating shale, silty shale and sandstone.
			325'	Sandstone, yellowish brown, fine to medium grained, massive, cross-bedded, weathers brown.
			93'	Shale, gray, fissile.
			177'	Alternating silty shale and sandstone interbedded.
BILUAY FORMATION	BILUAY FORMATION		116'	Silty shale, gray, fissile, raising interbedded shale, gray, fissile.
			82'	Sandstone yellow massive.
			1785'	Shale, gray, laminated, at places interbedded with fine grained yellow sandstone.
			164'	Sandstone, greenish gray, massive, cross-bedded.
BOVALI FORMATION	BOVALI FORMATION		582'	Alternating shale, silty shale and sandstone.
			730'	Silty shale, gray, laminated, fissile, cleaved, weathers yellow.
			432'	Siltstone, shaly siltstone and sandstone.
			214'	Sandstone, greenish gray, medium to thick bedded, thin shale beds at places.
KORAPAL FORMATION	KORAPAL FORMATION		576'	Alternating siltstone and shaly siltstone, gray, thin bedded, chert forming weather, whitish to yellowish gray.
			540'	Shale, yellowish gray to bluish gray, thin bedded, highly cleaved, jointed, weathers light yellow and whitish gray.
			80'	Alternating sandstone and shale.
			215'	Shale, bluish gray, weathers yellowish gray.
SARABHUB FORMATION	SARABHUB FORMATION		274'	Shale and silty shale, bluish gray, thin bedded, brittle, cleaved, weathers yellowish brown.

GEOLOGICAL MAP AND LOCATION OF SAMPLES IN CHITTAGONG AND CHITTAGONG HILL TRACTS DISTRICTS

PREPARED UNDER THE AUSPICES OF THE
UNITED STATES AGENCY FOR INTERNATIONAL
DEVELOPMENT



Geology and sampling by M. A. Mansoor Khan and
Horbert A. Parker, April 1968 to April 1969

Base map compiled from survey of Pakistan,
topographic sheet numbers 84 D, 2-3 and 79 N, 11-15