GEOLOGICAL MAP NO. 24

SIBI

34 K·O

GEOLOGICAL SYMBOLS

Geological boundaries
- Alluvium boundary
- Conformable or intrusive boundary
- Unconformable or disconformable boundary
- Intraformational boundary
- Formation boundary transgressing bedding (interfacies)
- Formation boundary, location questionable

Attitudes
- Bedding, field observation (horizontal, inclined, vertical, overturned)
- Bedding, photo interpretation (horizontal, inclined, vertical, overturned)
- Joints, field observation (horizontal, inclined, vertical)
- Joints, photo interpretation (dip direction unknown, inclined, vertical)
- Cleavage or schistosity, field observation (inclined, vertical)
- Stratiform foliation, photo interpretation (vertical, dip unknown)
- Lineation (plunging, horizontal)

Dip and plunge values (in degrees)
Bedding traces (eroded edges of bedding with dips)
Bedding traces (vertical, overturned)
Fault (existence and position certain)
Fault (existence or position uncertain, or concealed by alluvium)
Fault (inclined, vertical)
Fault (solid circle indicates side relatively downthrown)
Fault (normal movement)
Fault (reverse movement)
Fault (relative direction of strike-slip movement)
Faulting (close spaced, reverse, unmappably complex, strike and dip directions as indicated)
Faulting (close spaced, reverse, unmappably complex; sections only)
Thrust fault (existence and position certain)
Thrust fault (existence or position uncertain)
Thrust fault (direction of movement of allochthon)
Thrust fault (Klippe, Fenster)
Anticline axis (existence and position certain)
Anticline axis (existence or position uncertain, or axis concealed by alluvium)
Syncline axis (existence and position certain)
Syncline axis (existence or position uncertain, or axis concealed by alluvium)
Fold axis, plunging (arrow indicates direction of plunge, bar locates culmination or depression)
Folding (close-spaced, unclassified, unmappably complex, strike of axis as indicated)
Folding (close-spaced, overturned, unmappably complex, dip of axial plane as indicated)
Structural "high" (concealed basement)
Structural "low" (concealed basement)
Igneous plug or small stock (alluvium boundary, intrusive boundary)
Volcanic crater
Fossil locality (previous survey, present survey)
Dykes and sills (single, multiple)
Coal seams
Formation symbols (SEE Stratigraphic Legend) examples
Formation symbol (outside area of application)
Formation symbols (combined formations)
Volcanic rocks (area pattern showing occurrence)

Lithology symbols:

dolomite	dm	tuff	tf	dolerite	dr
shelly limestone	sl	volcanic material (undefined)	vc	pegmatite	pg
limestone	ls	basalt	ba	porphyry	po
marl	mr	andesite	an	alluvium (undefined)	all
shale	sh	granite	gr	clay	cly
mudstone	ms	ryolite	ry	silt	slt
sandstone	ss	diorite	di	sand	snd
conglomerate	cg	gabbro	gb	gravel	grvl
agglomerate	ag	ultrabasic rocks	ub	boulders	bld

Lithology symbols (combined in order of importance)
Mineral prospect or occurrence (visited during present survey)
Mineral occurrence (reported by previous survey; location uncertain)
Quarry or mine (in operation)
Quarry or mine (abandoned)
Seepage of oil
Seepage of gas
Seepage of oil and gas
Seepage of sulphurous waters
Mud volcano
Abandoned oil well
Abandoned well with show of oil
Abandoned well with show of gas
Abandoned well
Well (drilling)

Minerals:

alum	al	clay	cl	iron ore	fe	ochre	oc
antimony	sb	coal	cc	laterite	la	petroleum	p
aragonite	ar	copper	cu	lead	pb	salt	s
asbestos	ab	feldspar	fp	limestone	ls	serpentine	sp
barium	ba	fluorite	fl	magnesite	mg	strontium	st
building stone	bs	fullers earth	fu	manganese	mn	sulphur	sf
calcite	ca	glass sand	gl	mica	mi	talc	tc
chromite	cr	gypsum	gy	natural gas	g	vermiculite	vt

GEOGRAPHICAL SYMBOLS

- Road unclassified
- Motorable trail
- Railway
- Political boundaries
  - International
  - Divisional
- River, stream, or nala (dry, perennial, or seasonal flow)
- Canal
- Lake
- Hamun (playa)
- Sandy tracts
- Sand dunes (showing direction of prevailing wind)
- Strand lines or elevated beaches
- City or town, village
- Peak, high point, or spot elevation (with elevation in feet)
- Names
  - City: QUETTA
  - Main town or district headquarters: PANJGUR
  - Village or place: Nag
  - Peaks, passes, plains: TAKATU KHUJIAN PASS KARAKHI PLAIN
  - River, stream, nala, hamun, lake, or canal: Londa N Hamun Lake
  - Peninsula or cape: Ras Malan
  - Bay or inlet: MIANI HOR
  - Ranges (spaced names): SIAHAN RANGE
  - Divisions: KALAT
  - Countries: IRAN

Lithographed by the Surveys and Mapping Branch, Department of Mines and Technical Surveys, Ottawa, Canada, 1958.

Surveyed and compiled in 1953-56, by THE PHOTOGRAPHIC SURVEY CORPORATION LIMITED, TORONTO, CANADA in co-operation with THE GEOLOGICAL SURVEY OF PAKISTAN, using aerial photographs taken in 1952-54.

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INTERNAL REFERENCE

1	2	9	10	1	2	9	10
3	4	11	12	3	4	11	12
5	7	13	15	5	7	13	15
6	8	14	16	6	8	14	16

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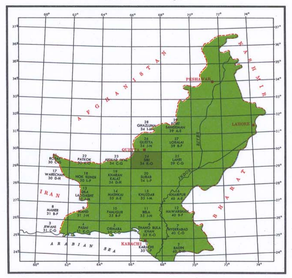
MAP SHEET INDEX



RECONNAISSANCE GEOLOGY

OF PART OF

WEST PAKISTAN

PUBLISHED FOR THE GOVERNMENT OF PAKISTAN
BY THE GOVERNMENT OF CANADA

SCALE 1:253,440

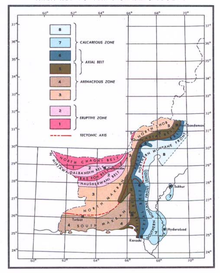
Four Miles to One Inch

Miles 4 3 2 1 0 4 8 12 16 20

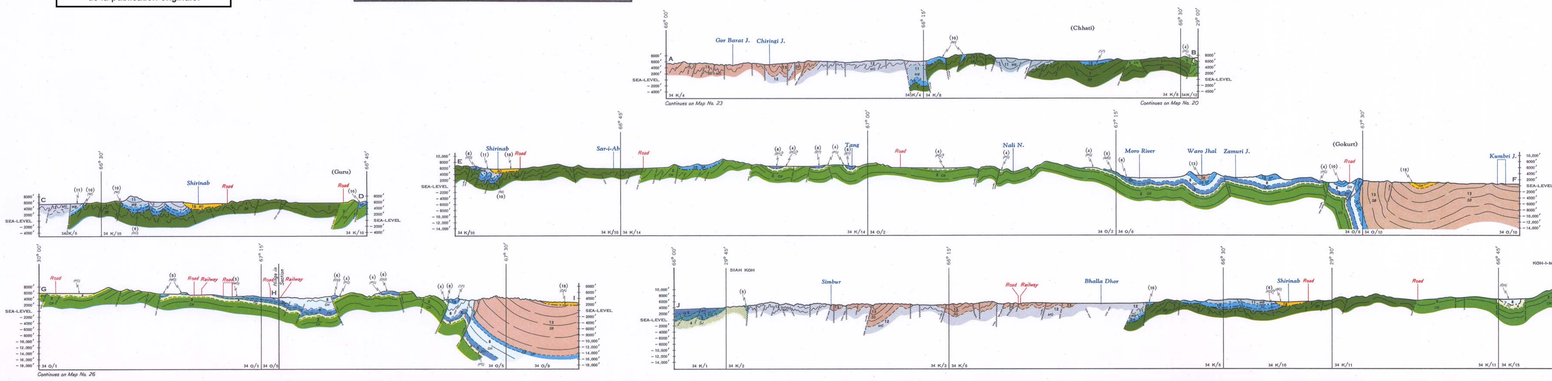
Base map compiled from aerial photographs and Survey of Pakistan topographic maps

A COLOMBO PLAN CO-OPERATIVE PROJECT

AREA KEY TO STRATIGRAPHIC LEGEND



STRUCTURE-SECTIONS ALONG LINES A-B, C-D, E-F, G-H-I, J-K-L



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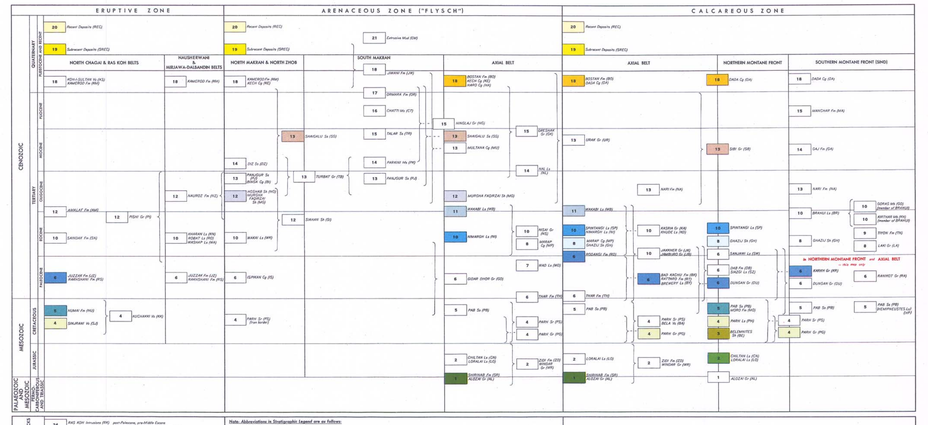
STRATIGRAPHIC LEGEND