GEOLOGICAL MAP NO. 15

KHUZDAR

35 I·M

GEOLOGICAL SYMBOLS

Geological boundaries
- Alluvium boundary
- Conformable or intrusive boundary
- Unconformable or disconformable boundary
- Intraformational boundary
- Formation boundary transgressing bedding (interfaces)
- 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	syenite	sy	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, antimony, aragonite, asbestos, barium, building stone, calcite, chromite, clay, coal, copper, feldspar, fluorite, fullers earth, glass sand, gypsum, iron ore, laterite, lead, limestone, magnesite, manganese, mica, natural gas, ochre, petroleum, salt, sepiolite, strontium, sulphur, talc, vermiculite

GEOGRAPHICAL SYMBOLS

Road unclassified
Motorable trail
Railway
Political boundaries
- International
- Divisional

River, stream, or nala (dry, perennial, or seasonal flow)
Canal
Lake
Human (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
- Main town or district headquarters
- Village or place
- Peaks, passes, plains
- River, stream, nala, human, lake, or canal
- Peninsula or cape
- Bay or inlet
- Ranges (spaced names)
- Divisions
- Countries

QUETTA
PANJGUR
Nag
TARATU KINJHAR PASS KARACHI PLAIN
Hamal Lake
Ras Malan
MAINI HOR
SIAHAN RANGE
KALAT
IRAN

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INTERNAL REFERENCE

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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

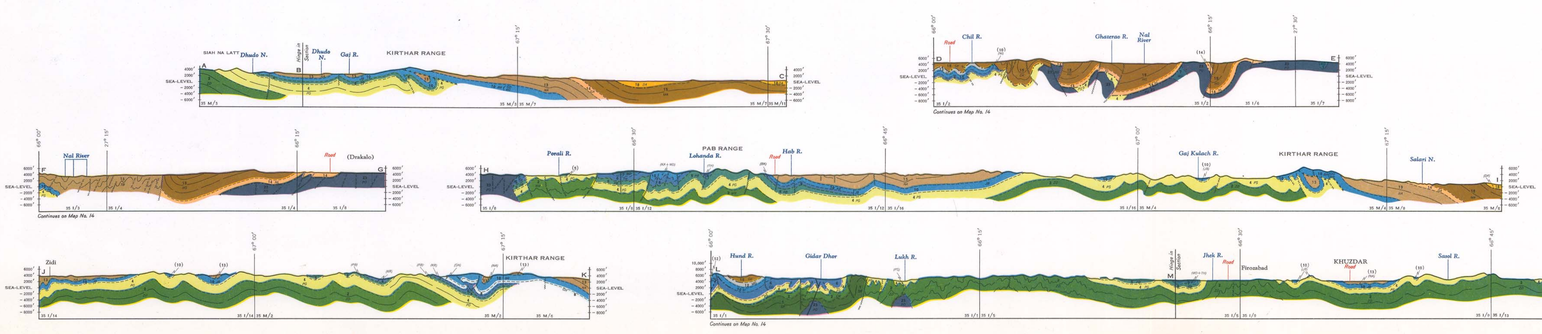
Four Miles to One Inch

Miles 0 4 8 12 16 20

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

A COLOMBO PLAN CO-OPERATIVE PROJECT

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

AREA KEY TO STRATIGRAPHIC LEGEND

STRATIGRAPHIC LEGEND