



BOREHOLE LOCATIONS, NORTHERN SONDA COAL FIELD (BARA FORMATION)
EXPLANATION

SERIES	PROGRAM	DRILLER	DATES	TOTAL NUMBER DRILLED	THIS MAP
DH-	GSP	GSP	1981-1986	27	16
UAS-	COALREAP	IVCC*	1986-1987	9	9
UAK-	COALREAP	IVCC*	1987-1988	16	11
JK-	COALREAP	GSP	1988-1989	20	20

*Indus Valley Construction Company (Lahore)

note: COALREAP borehole UAJ-1, the Pakistan Mineral Development Corporation MT- series boreholes, and all mines shown on this map are within the Meting-Jhimpir coal field (shallow Sohni coal) and do not penetrate the Bara Formation. Data from these locations were implicitly used in the construction of the structure and overburden maps included in this report (Plates 2 and 13). See SanFilipo and others (1988) for data from these locations.

Base map metric grid digitally generated by USGS, Reston, Virginia. Data points located relative to grid from best available information. Latitude and longitude adjusted to grid from Survey of Pakistan 1:50,000 scale topographic maps on paper copy. Selected drainage and cultural features added later at USGS from same topographic maps and are shown for reference only.

This report is preliminary and has not been reviewed for conformity with U.S. Geological Survey editorial standards, the North American Stratigraphic Code, or the Stratigraphic Code of Pakistan.

INDEX TO MAPS AND EDITIONS
USED IN COMPILATION

35 9/16 2nd ed.	40 1/3 3rd ed.	46 1/7 3rd ed.
35 9/16 2nd ed.	40 1/3 3rd ed.	46 1/7 3rd ed.
2nd ed. 35 9/13	2nd ed. 40 1/1	2nd ed. 46 1/5



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AND THE UNITED STATES GEOLOGICAL SURVEY
UNDER THE AUSPICES OF THE UNITED STATES AGENCY FOR INTERNATIONAL DEVELOPMENT



EXPLANATION

- DISTRICT BOUNDARY
- SURFACED ROAD
- UNSURFACED ROAD
- RAILROAD
- POPULATED PLACE
- COAL DRILL HOLE
- MINE
- DR. & GAS TEST

GRID AND DATA POINT LOCATIONS

PROJECT COAL REAP(GSP/USGS/USAID)	
Map title	JHERRUCK AREA
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BASE MAP, JHERRUCK AREA OF THE SONDA COAL FIELD, SINDH PROVINCE, PAKISTAN

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