وزارة الداخلية
مصلحة المساحة الجيولوجية الأمريكية
DEPARTMENT OF THE INTERIOR
UNITED STATES GEOLOGICAL SURVEY

المملكة العربية السعودية
وزارة المالية والاقتصاد الوطني
المديرية العامة للشؤون البترولية والمعادن
KINGDOM OF SAUDI ARABIA
MINISTRY OF FINANCE AND NATIONAL ECONOMY
DIRECTORATE GENERAL OF PETROLEUM AND MINERAL AFFAIRS

أبحاث جيولوجية مختلفة
خريطة رقم I-٢١٠ B
MISCELLANEOUS GEOLOGIC INVESTIGATIONS
MAP I-210 B

M(200)

GEOGRAPHIC MAP OF THE SOUTHERN HIJAZ QUADRANGLE, KINGDOM OF SAUDI ARABIA

By
Glen F. Brown and Roy O. Jackson

خريطة جغرافية للوجه الحجازي الجنوبي بالمملكة العربية السعودية

وضع
السيدين جلين براون و روي جاكسون

MAP LEGEND

POPULATED PLACES
- City
- Town or village
- Village name not given
- Date gardens
- Area under cultivation

TRANSPORTATION
- Major road, paved
- Major road, unpaved
- Secondary road
- Road of questionable permanency
- Camel trail
- Airport
- Landing area

HYDROGRAPHIC FEATURES
Only isolated wells are shown.
- Flowing well or spring
- Drilled well
- Dug well
- Dry well
- Water pipeline or aqueduct
- Intermittent stream
- Sabkhah or khabrā

HYPSOGRAPHIC FEATURES
- Generalized relief
- Sand

Dense stipple represents mobile sand cover consisting primarily of dunes, linear ridges, and other individual sand forms that are shown where map scale permits; moderately dense stipple represents more stabilized continuous sand cover; open stipple represents discontinuous sand cover.

Types of sand terrain

I Transverse. *Predominantly simple and compound barchan dunes in areas of more mobile sand, and/or simple rounded ridges, both oriented transverse to the prevailing wind direction.*

II Longitudinal. *Primarily dibdabah and various types of undulating sand sheets, in general characterized by elongation of the individual topographic forms parallel to the prevailing wind direction, often partially stabilized by sparse vegetation.*

III 'Urūq. *Various forms of long, nearly parallel, sharp crested narrow sand ridges and dune chains separated by broad sand valleys usually including elements of type I sand terrain. These are resultant of a system of two dominant wind directions and are identical to the sayf dunes of North Africa.*

IV "Sand mountains." *Dominated by large sand massifs commonly cresting 50 to 300 meters above the substratum, often with superimposed dune patterns consisting of various types of complex barchans. Common forms are giant barchans spanning several kilometers from horn to horn; giant bimorphic and pyramidal sand peaks as well as other less common peak forms; and giant oval to elongate sand mounds.*

MISCELLANEOUS FEATURES
- Spot elevation in meters
- Mine or prospect
- Dam
- Ruins
- Bathymetric contour in meters
- Reef

INDEX MAP OF ARABIAN PENINSULA
Maps published by the U. S. Geological Survey shown by asterisk following name.

GLOSSARY

'Ayn	Spring, or well; often an outlet of a water-collecting tunnel in the bed of a wādī
Bi'r	Dug well
Burqah (t)	Hill, generally rocky, flanked by sand
Ḥarrah (t)	Fields of lava and volcanic ejecta
Ḥiṣn	Fort
Jabal	Hill or mountain
Khabrā	Closed basin with firm, flat mud and silt surface, commonly barren and lacking vegetation
Khalīj	Same as sharm
Ra's	Tip of cape or headland protruding into the sea
Sabkhah (t)	Silt, clay, and sand flats, often with saline incrustations
Sahl	Plain
Sha'īb	Same as wādī but smaller
Sharm	Bay or harbor
Sud	Dam
Wādī	Valley or dry water course

SOURCES OF BASE COMPILATION

A, compilation from controlled photo mosaics, 1953; B, compilation from Egyptian Survey Department 1:100,000 maps, 1947; C, compilation from controlled trimetrogon photography, 1945; D, compilation from unadjusted vertical aerial photographs, 1956; E, offshore detail modified from British Admiralty Chart 138, 1954, and U.S. Navy H. O. chart 2813 5th edition, March 1951, and H. O. chart 2814 5th edition, August 1950. Topographic representation by the Topographic Division, U. S. Geological Survey.

This map will be printed in two sheets: Sheet A, geology and geography combined; Sheet B, geography only. Available at the Directorate General of Petroleum and Mineral Affairs, Ministry of Finance and National Economy, Jiddah and Ad Dammām, Saudi Arabia, and the U. S. Geological Survey, Washington, D. C., U. S. A.

Scale 1:500 000

1958 A. D.
1378 A. H.

Prepared by the U. S. Geological Survey and the Arabian American Oil Company under the joint sponsorship of the Kingdom of Saudi Arabia and the U. S. Department of State.
Lambert conic conformal projection; standard parallels 17° and 33°

INTERIOR—GEOLOGICAL SURVEY, WASHINGTON, D. C., M R 5078

Arabia. Topo. 1:500,000.
sheet Southern Hijaz, I-210 B
cop. 2.

U.S. GEOLOGICAL SURVEY
WASHINGTON
DEC 15 1958
LIBRARY

G370.J
sv1r
no.C438
I-210 B
cop. 2

LOGS LIBRARY - RESTON
3 1818 00173948 9

M(200)
I-210 B
C.2