وزارة الداخليـــة
مصلحة المساحة الجيولوجية الامريكية
DEPARTMENT OF THE INTERIOR
UNITED STATES GEOLOGICAL SURVEY

المملكة العربية السعودية
وزارة البترول والثروة المعدنية
KINGDOM OF SAUDI ARABIA
MINISTRY OF PETROLEUM AND MINERAL RESOURCES

أبحاث جيولوجية مختلفة
خريطة رقم ٢٢٠ B -I
MISCELLANEOUS GEOLOGIC INVESTIGATIONS
MAP I-220 B

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 conformal conic projection; standard parallels 17° and 33°

اصطلاحات الخريطة
MAP LEGEND

الأماكن الآهلة بالسكان — POPULATED PLACES

- قرية أو بلدة — Village or town
- قرية أو بلدة باسمها غير مبين على هذه الخريطة — Village or town, name not given
- حصن أو قلعة — Fort
- آثار، أطلال — Ruins

طرق المواصلات — TRANSPORTATION

- طريق غير ثابتة — Road of questionable permanency
- خليف — Khalīf *(see glossary)*
- أرض للنزول — Landing field

الأوصاف الهيدروغرافية — HYDROGRAPHIC FEATURES

لا تبين هذه الخريطة سوى الآبار المنفردة — *Only isolated wells are shown*

- بئر محفورة باليد — Dug well
- بئر ماء محفورة بآلة الحفر — Drilled water well
- دحل — Daḥl *(see glossary)*
- جدول متقطع — Intermittent stream
- سبخة — Sabkhah
- سهلة من الطمي — Silt flat
- خطوط أعماق البحار بالأمتار — Bathymetric contour in meters *(geologic interpretation; not intended for navigational purposes.)*

(هذه التأويلات جيولوجية فقط، غير مقصودة للاستعمال في الملاحة البحرية)

الأوصاف الهيبسوغرافية — HYPSOGRAPHIC FEATURES

- ارتفاع عمومي — Generalized relief
- أماكن طوبوغرافية مرتفعة — Prominent topographic features
- الرمل — 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.

أنواع الأراضي الرملية — 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 dikākah 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.*

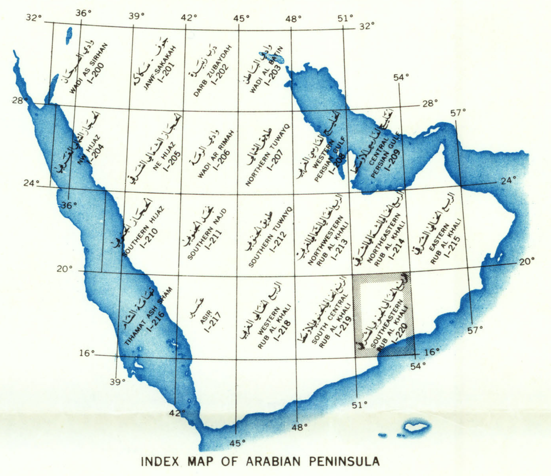
III — 'Urūq. *Various forms of long, nearly parallel, sharp crested narrow sand ridges and dune chains separated by broad sand valleys usually including elements of type I sand terrain. These are the resultant of a system of two dominant wind directions and are identical to the sayf dunes of North Africa.*

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

أوصاف مختلفة — MISCELLANEOUS FEATURES

- بئر زيت متروكة — Abandoned oil well
- علامة ارتفاع — Spot elevation (×500 meters)
- جنائن نخل — Date gardens

فهرس الخرائط لشبه جزيرة العرب



INDEX MAP OF ARABIAN PENINSULA

ايضاحات
GLOSSARY

عبل	'Abl	Sand area with many 'abl (shrubs)
عين	'Ayn	Spring, solution pit, or well
بئر	Bi'r	Dug well
دحل	Daḥl	Deep sink hole or solution cavity
غار ج غيران	Ghār, pl., Ghīrān	Sheltering recess of overhang in the side of any steep elevation
غبة	Ghubbah(t)	Gulf or deep water bay
حاذ	Ḥādh	Sand area with many ḥādh (shrubs)
حسي ج حساء	Ḥasī (Ḥisī), pl., Ḥisā'	Dug well, seasonal
حصن	Ḥiṣn	Fort
عرق ج عروق	'Irq; pl., 'Urūq	Long linear sand ridge
جبل	Jabal	Hill or mountain
خليف	Khalīf	Motorable pass
خشم	Khashm	Headland or promontory along a cliff or mountain front
خلة	Khullah(t)	Sand area with sparse brush including 'abl and others, but lacking ḥādh
قعيدة	Qa'īdah(t)	Raised sand area
قارة	Qārah(t)	Flat-topped hill, usually rounded
قطن	Qaṭn	Crest or summit of a mountain or mountain range
قرون مفردها قرن	Qurūn (pl. of Qarn)	Prominent mountain front
رملة	Ramlah(t)	Sand area
رأس	Ra's	Tip of cape or headland protruding into the sea
سبخة	Sabkhah(t)	Silt, clay, and sand flat, often with saline incrustations
سليل	Salīl	Equivalent to sayḥ; or the lower and broader portion of a sayḥ as it approaches the Rub' al Khālī sands
سيح	Sayḥ	Small, poorly defined wādī channel; more broadly, the southern steppe desert, as opposed to that of the sands
شعب	Sha'b	Same as wādī, often a tributary
شقة	Shaqqah(t)	Valley or depression between 'urūq
طوف	Ṭawf	Escarpment or often the raised bank of a wādī
وادي	Wādī	Valley or dry water course

مصادر المجموعات الاساسية

Compilation and topographic representation by the Arabian American Oil Company; A, Controlled aerial photographic surveys, 1954-55; B, recompilation from ground surveys; C, recompilation from various published sources partly modified and amended from reconnaissance ground surveys; and D, bathymetric lines interpolated from published U. S. Hydrographic Office and British Admiralty Charts. Topographic representation by E. L. Elberg, Jr., Arabian American Oil Company. Translation, transliteration, calligraphy and Arabic typography by S. H. Kfoury, C. D. Matthews, and M. H. Kfoury.

SOURCES OF BASE COMPILATION (A, B, C, D)

المقياس ١ : ٥٠٠٠٠٠
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GEOGRAPHIC MAP OF THE SOUTHEASTERN RUB AL KHALI QUADRANGLE, KINGDOM OF SAUDI ARABIA

By
Leon F. Ramirez, Edward L. Elberg, and Hans H. Helley

خريطة جغرافية للوحة الربع الخالي الجنوبي الشرقي بالمملكة العربية السعودية
وضع
ليون رامييز وادوارد إلبورغ وهانز هيلي

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