Karl S. Twitchell Papers, 1911-1967: Finding Aid

Summary Information

Call number: MC171
Repository: Princeton University. Library. Dept. of Rare Books and Special Collections
Seeley G. Mudd Manuscript Library.
Public Policy Papers.
65 Olden Street Princeton, New Jersey 08540 USA
Size: 13.76 linear feet
33 boxes and oversized
Language(s) of Material: English
Arabic
Abstract: Karl S. Twitchell was an American mining engineer who conducted extensive surveys in the Middle East, Europe, and South America between 1915 and the 1950s. His papers document the span of his career, particularly his interest in the Middle East, and include correspondence, journals, notes, reports, writings, topical files, photographs, and maps. Personal documents and correspondence with family and associates are also contained.
Location: This collection is stored onsite at the Mudd Manuscript Library.
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Karl S. (Saben) Twitchell (born in St. Albans, Vermont on June 7, 1885) was an American mining engineer and geologist who conducted extensive mineral surveys in the Middle East between 1927 and the 1950s. He attended Kingston School of Mines, Queen's University in Kingston, Ontario and graduated with a BS in 1908 and an ME in 1909. Between 1908 and 1915, Twitchell worked as an assayer, surveyor, prospector, and engineer in California, Idaho, and Arizona for various British and American companies, including Delamar Ltd. While working in a copper mine in Arizona, Twitchell met Colonel Seeley W. Mudd, who offered Twitchell an opportunity to work on developing the Skouriotissa Gold Mine in Cyprus in 1915. This pivotal early project ultimately led to a variety of mining projects in Portugal, Abyssinia (present day Ethiopia), Iran, and British Guiana. Twitchell's most significant work, however, took place in Yemen and Saudi Arabia.

As a gift to Imam Yahiz, businessman Charles R. Crane hired Twitchell to survey mine resources, develop transportation infrastructure, and conduct agricultural experiments in Yemen during the later 1920s and early 1930s. Based on his successes in Yemen, a similar arrangement for surveying water resources, later to include mineral and oil surveying, was negotiated in 1932 for King Ibn Saud of Saudi Arabia. On behalf of Standard Oil Company of California, Twitchell negotiated the first ever oil concession with the Saudi Arabian government in May 1933. With negotiations successfully completed, Twitchell began developing Mahad Dhahab and other mines in Saudi Arabia on behalf of the newly formed Saudi Arabian Mining Syndicate, which later included and was managed by the American Smelting and Refining Company. Other professional projects during this time include exploration and development of Placer Diamond Mine in British Guiana, serving as Vice President and consultant for American Eastern Corporation, consulting in Iran as part of its "Seven Year Plan," and leading the Agricultural Mission to Saudi Arabia in 1943-1944.

As an American businessman with a strong connection to the Middle East, Twitchell was involved with several philanthropic and academic organizations which had an interest in the region, including American Middle East Relief, Council on Islamic Affairs, Committee for Security and Justice in the Middle East, and Princeton University's Department of Oriental Languages and Literature Graduate Advisory Council. Often such affiliations reflected Twitchell's interest in the region's social and political circumstances, particularly if events impacted American-Saudi Arabian business relations. Twitchell also served on the Boards of Directors for American Eastern and Rock of Ages Corporations.


The Karl S. Twitchell papers contain correspondence, journals, notes, reports, writings, topical files, photographs, and maps documenting his career in mining and interest in the Middle East. The bulk of the professional documentation focuses on specific mining projects, principally in Yemen and Saudi Arabia between the late 1920s and 1950s. Particularly well-documented is Twitchell's participation in the Saudi Arabian Mining Syndicate (SAMS).
Also contained are personal documents comprised mostly of correspondence with his wife and other family members, professional acquaintances, and philanthropic organizations.

Please see series descriptions in contents list for additional information about individual series.

### Arrangement

Arrangement closely reflects order in which material was kept by Karl S. Twitchell. Related topics may be located in different series. The Papers have been arranged in six series:

<table>
<thead>
<tr>
<th>Series</th>
<th>Title</th>
<th>Dates</th>
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<tr>
<td>1</td>
<td>Correspondence, 1928-1961</td>
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<td>Field Notes, Daily Diaries, Address Books, 1911-1961</td>
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<td>Subseries 2A: Field Notes, circa 1926-1951</td>
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<td>Subseries 2B: Daily Diaries, circa 1921-1938</td>
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<td>Subseries 2C: Addresses, Memos, Business Cards, circa 1911-1964</td>
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<td>3</td>
<td>Topical Files, 1913-1966</td>
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<td>6</td>
<td>Maps, Plans and Drawings, 1916-1967</td>
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<td>7</td>
<td>Oversize Materials, 1932-1953</td>
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### Access and Use

**Access**

Collection is open for research use.

**Restrictions on Use and Copyright Information**

Single photocopies may be made for research purposes. For quotations that are fair use as defined under **U. S. Copyright Law**, no permission to cite or publish is required. For those few instances beyond fair use, researchers are responsible for determining who may hold the copyright and obtaining approval from them. Researchers do not need anything further from the Mudd Library to move forward with their use.

**Physical Characteristics and Technical Requirements**

Some letters in Series 1 have water damage and may be illegible, however, photocopies have been made and are housed in the folder following the original letters.

### Acquisition and Appraisal

**Custodial History**
These papers were originally donated to Professor L. Carl Brown of Princeton University's Department of Near Eastern Studies in September 1986 and were housed in Princeton University Library's Manuscript Division beginning in January 1987. The papers were then transferred to Mudd Manuscript Library's Public Policy Papers Collection in August 1991.

Provenance and Acquisition


Appraisal

Duplicate materials were separated from the collection and destroyed. Several Arabian coins were transferred to the Numismatics Department.

Processing and Other Information

Preferred Citation

Identification of specific item; Date (if known); Karl S. Twitchell Papers, Box and Folder Number; Public Policy Papers, Department of Rare Books and Special Collections, Princeton University Library.

Works Cited

The following sources were consulted for preparation of the biography:

Materials from Karl S. Twitchell Papers.


Processing Information

This collection was processed by Amy E. Armstrong in July 2007. Finding aid written by Amy E. Armstrong in July 2007.

Encoding


Descriptive Rules Used

Finding aid content adheres to that prescribed by Describing Archives: A Content Standard.

Subject Headings

· Crane, Charles Richard, 1858-1939.
· Twitchell, K. S. (Karl Saben), 1885-1968.
· Princeton University -- Dept. of Near Eastern Studies.
· Princeton University Press.
· Mining.
· Petroleum industry and trade -- Saudi Arabia.
· Middle East.
· Saudi Arabia.
· Yemen.
· Correspondence.
· Journals.
· Maps.
· Memorandums.
· American history/20th century
· American politics and government
· Economic history
· Middle East
Series 1: Correspondence, 1928-1961

Size: 2.5 linear feet
Size: 6 boxes

Description: The Correspondence series documents Twitchell's professional, personal, and organizational affiliations and includes letters, memoranda, and cables related to various projects and expeditions, primarily in Saudi Arabia and Yemen. Due to the nature of such correspondence, attachments including reports, clippings, photographs, maps, or other document formats accompany some letters. Significant professional correspondence includes the Yemen Expedition, Twitchell's earliest and most significant mining project which inspired his lifelong professional and personal interest in the Middle East. These letters include correspondence with project financier, Charles R. Crane and Imam Yahiz of Yemen, as well as his representatives and translators. As a result, many letters are in Arabic accompanied by English translations. Other notable correspondence includes letters and cables between King Ibn Saud, other members of the Saudi Arabian Royal Family, and Saudi Arabian government officials. The majority of correspondence concerning the Saudi Arabian Mining Syndicate (SAMS), other mining projects, and personal organizational affiliations can be found in Series 3: Topical Files.

Personal letters to colleagues, acquaintances, and to his wife, Norah (whom he called Nona), are also in this series, but may also appear in personal files within Series 3: Topical Files.

Arrangement: Arranged alphabetically by topic or last name of the correspondent.

A, 1940-1960
B, 1940-1960
C, 1933, 1942-1960
Cables, 1940, 1961
D, 1938-1958
E, 1942-1959
F, 1940-1958
Flanders, Ralph, 1954-1959
G, 1942-1959
H, 1941-1959
I-J, 1939-1960
K, 1940-1960
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<td>Ministry of Finance, Saudi Arabia, 1948-1952</td>
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<td>O, 1950-1960</td>
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<td>P-Q, 1945-1958</td>
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<td>S, 1939-1960</td>
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<td>Saudi Arabia Trip, 1940-1944</td>
<td>4 Folder: 1 to 3</td>
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<tr>
<td>Sol Nar, 1952-1953</td>
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<td>Yemen Expedition, 1929-1932</td>
<td>6 Folder: 4 to 6</td>
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<td>6 Folder: 7</td>
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</table>

Series 2: Field Notes, Daily Diaries, Address Books, 1911-1961
Subseries 2A: Field Notes ... (Continued)

Size: 1 linear feet

Size: 2.5 boxes

Description: The Field Notes, Address Books, Daily Diaries series contains unpublished material used to record personal observations, daily occurrences, as well as notes and reminders.

Arrangement: Divided into three subseries: Field Notes; Daily Diaries; and Addresses, Memos, Business Cards.

Subseries 2A: Field Notes, circa 1926-1951

Size: 0.8 linear ft in 1.5 boxes

Description: The Field Notes subseries includes notebooks detailing travel to various countries, particularly throughout the Middle East; including four notebooks documenting the United States Agricultural Mission to Saudi Arabia, which Twitchell led between 1943-1944. Twitchell used these diaries to record daily occurrences, field observations related to mining and other projects, lists, memoranda, expenses, historical and political references, and personal observations. Similar unbound writings may also be located within country and/or project files in Series 3: Topical Files.

Arrangement: Arranged by form and alphabetically by country.

Abyssinia, 1926-1928 Box: 7 Folder: 1
Description: (Includes photographs taken by Nona Twitchell)

Haleet and India, 1932, 1940 Box: 7 Folder: 2

Iran, 1949-1950 Box: 7 Folder: 3

Najadi and Iran, 1949 Box: 7 Folder: 4

Saudi Arabia, 1935-1951 Box: 7 Folder: 5 to 8

Saudi Arabia; Iran; Kuwait; Washington, D.C., 1947-1948 Box: 8 Folder: 1

United States, 1912, 1941 Box: 8 Folder: 2

Yemen, 1927-1932, 1950-1951 Box: 8 Folder: 3 to 4

Subseries 2B: Daily Diaries, circa 1921-1938

Size: 0.2 linear ft in 0.5 boxes

Description: The Daily Diaries subseries contains notebooks Twitchell used to record brief notes regarding daily meetings and occurrences, the weather and routine memos while working on projects abroad.

Arrangement: Arranged chronologically.

Miscellaneous Journals, circa 1921-1938 Box: 8 Folder: 5 to 6
Subseries 2C: Addresses, Memos, Business Cards, circa 1911-1964

Size: 0.2 linear feet

Size: 0.5 boxes

Description: The Addresses, Notes, Business Cards subseries includes unbound routine and project-related memoranda and lists used to record contacts, addresses, expenses and personal reminders.

Arrangement: Arranged by form.

- Miscellaneous Notebooks, 1921, 1946
  Box: 9 Folder: 1
- Miscellaneous Memos, 1927-1952
  Box: 9 Folder: 2 to 3
- Miscellaneous Addresses and Business Cards, 1911-1964
  Box: 9 Folder: 4

Series 3: Topical Files, 1913-1966

Size: 7 linear feet

Size: 17 boxes

Description: The Topical Files series includes incoming and outgoing letters, memoranda, cables, reports, maps, clippings, and other printed matter. Subjects relate to activities Twitchell was directly involved with, including specific mining projects, consultant and corporate associations, philanthropic and professional organizations, and publishers. Correspondence, reports, and minutes concerning the Saudi Arabian Mining Syndicate (SAMS) and the Yemen Expedition are contained within this series. Also included are reference materials containing country files, clippings, and printed matter. Personal and miscellaneous files are also included and consist of material on various subjects.

Arrangement: Arranged alphabetically by topic.

- Abyssinia, 1926-1927
  Box: 9 Folder: 5 to 6
- Al Kharj, Saudi Arabia, 1942
  Box: 9 Folder: 7
- American Smelting and Refining Company, 1944-1953
  Box: 10 Folder: 1 to 4
- Arabia, 1936-1943
  Box: 10 Folder: 5 to 6
- Archaeology, 1941-1954
  Box: 11 Folder: 1 to 2
- Archaeology, Oversized Scrapbook, 1941-1954
  Description: (Removed to Box 33)
- Boys' Club of America, 1956
  Box: 11 Folder: 3
- California Arabian Standard Oil Company, 1934
  Box: 11 Folder: 4
Series 3: Topical Files ... (Continued)

China, 1948

Crane, Charles R, 1938-1939

DeGaury, Gerald Colonel, 1943

Delice, French Guiana, 1952-1960
  Description: (Correspondence and Reports)

Delice, French Guiana, 1952-1960
  Description: (Reports and Maps)

Dodd, Mead and Company, 1953-1957

Dutch Guiana, 1956

Eff, Najib, Director of Mines and Public Works, Saudi Arabia, 1939-1940

Egypt, 1943-1949
  Description: (Includes photographs)

Encyclopedia Americana, 1943-1944

Encyclopedia Britannica, 1964
  Description: (Includes photographs)

Eritrea, 1946-1947

Explorers Club, 1962-1963

Explorers Club, 1962-1963

Iran, 1949-1951

Kaburi Mine, British Guiana, 1961

Mine Reports, Various, 1932-1955

Mawan Mine, Nejd, Saudi Arabia, 1941

Newspaper Clippings, 1939-1944
  Description: (Contains clippings and correspondence on Saudi Arabia, Palestine, and Twitchell's testimony before the House of Representative's Committee on Foreign Affairs, as well as two issues of Fortune magazine)

Overseas Consultants, 1950

Personal, 1937-1948
  Correspondence and Miscellaneous, 1937-1939
  Correspondence and Miscellaneous, 1947-1948
Philanthropies, 1953-1965

American Middle East Rehabilitation, Inc, 1964-1965
Box: 16 Folder: 1

American Middle East Relief, Inc, 1953-1960
Box: 16 Folder: 2 to 3

Committee for Security and Justice in the Middle East, 1955-1958
Box: 16 Folder: 4

Council on Islamic Affairs, Inc, 1956-1961
Box: 16 Folder: 5

Photographic, 1956, 1964
Box: 16 Folder: 6

Prince Faisal Visit to United States, 1943
Box: 17 Folder: 1

Prince Faisal Visit to United States, Oversized Scrapbooks, 1943
Box: 17

Description: (Removed to Box 33)

Retired Men's Association, Greenwich YMCA, 1963-1964
Box: 17 Folder: 2

Reynolds Metals Company, 1950-1954
Box: 17 Folder: 3

Rock of Ages Corporation, 1957-1958
Box: 17 Folder: 4 to 6

Rock of Ages Corporation, 1958-1960
Box: 18 Folder: 1 to 3

Saudi Arabia, 1953-1955
Box: 18 Folder: 4 to 6

Description: (Includes Saudi Arabian Mining Syndicate and Al Habla)

Saudi Arabia, 1947-1957
Box: 18 Folder: 7

Description: (Includes correspondence and book reviews)

Saudi Arabian Mining Syndicate (SAMS), 1931-1955

American Smelting and Refining Company, 1943-1947
Box: 19 Folder: 1 to 4

Correspondence, 1931-1940
Box: 19 Folder: 5

Correspondence, 1949-1952
Box: 19 Folder: 6

Correspondence and Minutes, 1950-1952
Box: 20 Folder: 1

Correspondence, Minutes, Reports, 1952-1954
Box: 20 Folder: 2 to 3

Liquidation, 1955
Box: 20 Folder: 4 to 5

Mine Reports, 1932-1942
Box: 21 Folder: 1

Report of Aerial Reconnaissance, 1936-1937
Box: 21 Folder: 2 to 3

Reports, 1939-1941
Box: 21 Folder: 4
Series 4: Writings, 1933-1959

Size: 0.6 linear feet

Size: 1.5 boxes

Description: The Writings series contains published versions of articles, completed drafts, and research notes.
Subseries 4A: Articles, 1933-1958

Size: 2 linear ft in .5 box

Description: The Articles subseries includes article drafts and the entire publication in which Twitchell's published article appears. A small amount of correspondence with the publishers of Asia is included.

Arrangement: Arranged by form and alphabetically by publication title.

- Asia, 1933 January February, 1941 November, 1933 January, 1941 November
  Description: (Includes correspondence with the publisher)
  Box: 26 Folder: 6 to 7
- Explorers Journal, 1958 December
  Box: 26 Folder: 8

Subseries 4B: Books, 1944-1950

Size: 0.2 linear feet

Size: 0.5 box

Description: The Books subseries contains the completed first draft of Twitchell's 1947 book, Saudi Arabia, as well as a 1950 updated supplement.

Arrangement: Arranged by form.

- Saudi Arabia, draft, 1944
  Box: 27 Folder: 1
- Saudi Arabia, supplement, 1950
  Box: 27 Folder: 2

Subseries 4C: Unpublished Notes and Drafts, 1929-1959

Size: 0.2 linear feet

Size: 0.5 box

Description: The Unpublished Notes and Drafts subseries contains handwritten drafts and notes for articles, as well as a draft and research notes for an unpublished manuscript about mining.

Arrangement: Arranged by form.

- Lectures and Articles, 1929-1944, undated
  Box: 27 Folder: 3
  Box: 27 Folder: 4 to 5

Series 5: Printed Matter, 1931-1966

Size: 1 linear feet
Series 6: Maps, Plans and Drawings ... (Continued)

Size: 2 boxes

Description: The Printed Matter series consists of clippings and magazines that contain articles about the Middle East, particularly Saudi Arabia. Many of the articles refer to Twitchell and his work in the region.

Arrangement: Arranged alphabetically by publication title.

  Box: 28 Folder: 1

  Box: 28 Folder: 2

- Asia and the Americas, 1943 April
  Box: 28 Folder: 3

- Congressional Record, 1964 May 12
  Description: (With annotations and letter from Senator Thomas J. Dodd)
  Box: 28 Folder: 4

- Engineering and Mining Journal, 1966 April
  Box: 28 Folder: 5

- Geology of the Arabian Peninsula: Yemen, 1966
  Box: 28 Folder: 6

- Journal of the Institution of Petroleum Technologists, 1931 May
  Box: 28 Folder: 7

- A Journey to Arabia, 1939
  Box: 28 Folder: 8

  Box: 28 Folder: 9 to 11

- Middle East: Basic Laws and Concession Contracts, 1959
  Size: Volumes I-II
  Box: 29 Folder: 1 to 2

- Mining Engineering, 1965 September
  Box: 29 Folder: 3

- Description: (Article excerpt about Karl S. Twitchell)

- The Mining Journal, 1961 September 1
  Box: 29 Folder: 4

- Size: Article excerpt

  Box: 29 Folder: 5

- Newsweek, 1943 November 1
  Box: 29 Folder: 6

- Our Empire Monthly, 1939 February
  Box: 29 Folder: 7

- Standard Oil Company of California Bulletin, 1949 April
  Box: 29 Folder: 8

- Time, 1945 March 5
  Box: 29 Folder: 9

- True: The Man's Magazine, 1946 February
  Box: 29 Folder: 10

- Miscellaneous Clippings, 1939, undated
  Box: 29 Folder: 11


Page 15
Series 6: Maps, Plans and Drawings ... (Continued)

Size: 1.25 linear feet
Size: 3 boxes, 11 oversized folders and 1 rolled map

Description: The Maps, Plans, Drawings series contains printed maps published by official agencies or corporate bodies and includes the United States Geological Survey Saudi Arabian map series in various years, nautical charts, and other planimetric maps. The most notable maps include project-specific hand drawn maps, printed maps in Arabic, and mine survey maps. Also included are equipment drawings. Other maps may also be located within project or country files in Series 3: Topical Files.

Arrangement: Arranged alphabetically either by map publisher or map title. Several of the larger maps are housed in Oversized drawers.

Arabia and the Persian Gulf, 1916
Army Air Forces Aeronautical Service, 1944-1946
  Savelan Mountain, Iran, Number 339, 1944
  Mount Karbush, Iran, Number 428, 1946
  Tun Range, Iran, Number 429, 1944
  Mount Lalehzar, Iran, Number 443, 1945
  Mount Razih, Saudi Arabia, Yemen, Number 668, 1944
Arabian American Oil Company, Arabian Peninsula Rainfall Map, 1942
California Arabian Standard Oil Company, Arabian Peninsula, 1938
Eastern Africa, 1934
  Physical Characteristics: Top portion of map is missing
Equipment Plans, 1923-1924, 1940
Hydrographic Office, Department of the Navy, 1946-1948
  Entrance to the Persian Gulf, 1948
  Plans in the Persian Gulf, Number 3657, 1946
  Plans in the Persian Gulf, Number 3659, 1947
Saudi Arabia, undated
Saudi Arabian Mining Syndicate, 1936-1944
  The Cradle of Gold, 1936, 1944
Sifton, Praed and Company Ltd., 1916-1930
  Arabia, 1916
  Sobat, Walega, 1926-1927
  Southwest Arabia Sanaa, 1930
### Series 6: Maps, Plans and Drawings (Continued)

| United States Geological Survey, Plates of Saudi Arabia, 1959 January 1 |
| Box: 30 Folder: 12 |
| MI-1, 1966 | Box: 31 |
| MI-2, 1966 | Box: 31 |
| MI-3, 1966 | Box: 31 |
| MI-4, 1966 | Box: 31 |
| MI-5, 1967 | Box: 31 |
| MI-6, 1967 | Box: 31 |
| MI-7, 1967 | Box: 31 |
| MI-8, 1967 | Box: 31 |
| MI-9, 1967 | Box: 31 |
| MI-10, 1967 | Box: 31 |
| MI-11, 1967 | Box: 31 |
| MI-12, 1967 | Box: 31 |
| MI-13, 1967 | Box: 31 |

| United States Geological Survey, Kingdom of Saudi Arabia, 1956-1963 |
| Box: 31 |
| I-212A-B, 1956 | Box: 31 |
| I-207B, 1957 | Box: 31 |
| I-207A, 1958 | Box: 31 |
| I-208A-B, 1958 | Box: 31 |
| I-210B, 1958 | Box: 31 |
| Size: Includes three identical copies, each with different notations |
| I-216A-B, 1958 | Box: 31 |
| I-217B, 1958 | Box: 31 |
| I-203A-B, 1959 | Box: 32 |
| I-204B, 1959 | Box: 32 |
| I-205B, 1959 | Box: 32 |
| I-209B, 1959 | Box: 32 |
| I-213A-B, 1959 | Box: 32 |
| I-214B, 1959 | Box: 32 |
| I-217A, 1959 | Box: 32 |
### Series 7: Oversize Materials, 1932-1953

**Description:** Series 7: Oversize Materials contains scrapbooks and large-scale geographical and nautical maps.

**Arrangement:** Scrapbooks are arranged in the order in which they were sent to Princeton. The larger maps are arranged generally in alphabetical order by location or map creator.

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**Prince Faisal Visit to United States, Oversized Scrapbooks, 1943**

Box: 33 Folder: 1 to 2

**Archaeology, Oversized Scrapbook, 1941-1954**

Box: 33 Folder: 3

**United States Geological Survey, Arabia, 1945**

Box: 34

**Description:** (Map is Rolled and is in Arabic)
### Army Map Services, Corp of Engineers, British Government, 1945-1948

- **Aden, 1945**  
  Cabinet: Cabinet 8  
  Drawer: Drawer 2

- **Qizan, 1948**  
  Cabinet: Cabinet 8  
  Drawer: Drawer 2

### Barramia Mine, Assay Plane, 1947

**Description**: (Includes memo from Edward M. El Afly regarding list of samples)

- **Drawing Number 169, 1947**  
  Cabinet: Cabinet 8  
  Drawer: Drawer 2

- **Drawing Number 170, 1947**  
  Cabinet: Cabinet 8  
  Drawer: Drawer 2

- **Drawing Number 171, 1947**  
  Cabinet: Cabinet 8  
  Drawer: Drawer 2

### Delice, French Guiana, 1952-1953

- **Arouany River, Assay Map, 1953**  
  Size: 2 maps  
  Cabinet: Cabinet 8  
  Drawer: Drawer 2

- **Arouany River and Drawings, 1953 May**  
  Size: 8 maps  
  Cabinet: Cabinet 8  
  Drawer: Drawer 2

- **Arouany River and Drawing, 1953 June**  
  Cabinet: Cabinet 8  
  Drawer: Drawer 2

- **French Guiana, 1952 June 4**  
  Cabinet: Cabinet 8  
  Drawer: Drawer 2

- **Prospection Clayton, 1952**  
  Size: 2 maps  
  Cabinet: Cabinet 8  
  Drawer: Drawer 2

### El Madina-Mecca, 1942

- **El Madina-Mecca, 1942**  
  Size: 2 maps  
  Cabinet: Cabinet 8  
  Drawer: Drawer 3

### Geological Society of America, Geologic Map of South America, 1950

- **Geological Society of America, Geologic Map of South America, 1950**  
  Cabinet: Cabinet 8  
  Drawer: Drawer 3

### International Map Company, Inc., 1941-1949

- **Aden, 1949**  
  Cabinet: Cabinet 8  
  Drawer: Drawer 3

- **Mecca, 1941**  
  Cabinet: Cabinet 8  
  Drawer: Drawer 3

- **Medina, 1944**  
  Cabinet: Cabinet 8  
  Drawer: Drawer 3
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<th>Item Description</th>
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<tr>
<td>Riyadh, 1945</td>
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<td>Mahad Dahab Mine, Hijaz, Arabia, 1932 February</td>
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<td>Red Sea, Nautical Map, 1950</td>
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<td>Farasan Islands, Number 15, 1950</td>
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<td>Kamaram Passage, Number 543, 1950</td>
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<tr>
<td>Approaches to Kamaram Passage, Number 548, 1950</td>
<td>Cabinet 8</td>
<td>Drawer 3</td>
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<tr>
<td>Yemen, dates not examined</td>
<td>Cabinet 8</td>
<td>Drawer 3</td>
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<tr>
<td>Yemen and Red Sea, undated</td>
<td>Cabinet 8</td>
<td>Drawer 3</td>
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<tr>
<td>Yemen, undated</td>
<td>Cabinet 8</td>
<td>Drawer 3</td>
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<tr>
<td>Red Sea, undated</td>
<td>Cabinet 8</td>
<td>Drawer 3</td>
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<tr>
<td>Zafar Mine, undated</td>
<td>Cabinet 8</td>
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<tr>
<td>Unidentified, undated</td>
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<tr>
<td>Physical Characteristics: Damaged and torn pieces</td>
<td>Cabinet 8</td>
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