APPENDIX 3

INDEX CARDS OF MINERAL OCCURRENCES

(Appendices 3-1 to 3-9)

74 JED 9

LIST OF MINERAL OCCURRENCES INDEX CARDS

App. 3-1 No. 131 A-RB 7m

App. 3-2 No. 131 B-RB 8m

App. 3-3 No. 131 A-RB 9m

App. 3-4 No. 131 A-RB 10m

App. 3-5 No. 131 A-RB 11m

App. 3-6 No. 131 A-RB 12m

App. 3-7 No. 131 A-RB 13m

App. 3-8 No. 131 A-RB 14m

App. 3-9 No. 131 A-RB 15m

Note: All the coordinates quoted on the index cards refer to the 1:100,000 scale Umm Sulaym quadrangle map.

BRGM report 74-JED-9, App. 3-1
Min. Occur. No. 131 A-RB 7m
Name: Wādī Burdān.
Mineralization: Hematite
Type: Shear zone.

Area: Umm Sulaym

Latitude 22° 29' 45" N.; Longitude 45° 14' 28" E.

Geologic and geographic maps, 1:500,000 scale: I-212 A, B.

Geologic map, 1:100,000 scale: Umm Sulaym quadrangle, 22/45 C.

Regional and local geology:

Ophiolitic Complex: gabbro, peridotite, serpentinite, keratophyre with lenses of marble associated with ultramafic rock.

Description of mineral occurrence:

Shear zone: decayed quartz, ferruginous chert with a small amount of hematite, trending N 70° W., in a lense of marble related to ultramafic rock trending N 30° W:

The shear zone crops out over a length of 25 m and a width of 1 m.

Mineralization:

a) gangue: quartz, chert.
b) supergene minerals: hematite.

Texture:

Massive

Sampling results:

Chemical analyses

Sample No.	Au g/t	Ag g/t	Cu ppm	Pb ppm	Zn ppm	Ni ppm
131 A-RB 1153	0.5	5	80	40	30	240

Form filled out by R. Brosset, June 1973

BRGM report 74-JED-9, App. 3-2
Min. Occur. No. 131 B-RB 8m.
Name: Jabal al 'Uwayjā'
Mineralization: Hematite, copper
Type: Ultramafic rock.

Area: Umm Sulaym

Latitude 22° 25' 30" N.; Longitude 45° 19' 23" E.

Geologic and geographic maps, 1:500,000 scale: I-212 A, B.

Geologic map, 1:100,000 scale: Umm Sulaym quadrangle, 22/45 C.

Regional and local geology:

Ophiolitic Complex: gabbro, peridotite, serpentinite, keratophyre, with magnetite, magnesite, marble and some decimeter-sized veinlets of hematite.

Description of mineral occurrence:

Decimeter-sized veinlets of hematite, in ultramafic rock: serpentinite and chloritite.

Mineralization:

a) gangue: ultramafic rock.
b) supergene minerals: hematite.

Texture:

Massive

Sampling results:

Chemical analyses

Sample No.	Au g/t	Ag g/t	Cu ppm	Pb ppm	Zn ppm	Ni ppm
131 A-RB 1153	< 0.5	5	650	< 40	30	745

Form filled out by R. Brosset, June 1973

BRGM report 74-JED-9, App. 3-3
Min. Occur. No. 131 A-RB 9m
Name: Wādī 'Araqah
Mineralization: Au
Type: quartz vein

Area: Umm Sulaym

Latitude 22° 26' 33" N.; Longitude 45° 03' 27" E.

Geologic and geographic maps, 1:500,000 scale: I-212 A, B.

Geologic map, 1:100,000 scale: Umm Sulaym quadrangle, 22/45 C.

Regional and local geology:

Alkalic granite intrusive in the Pyroclastic Halaban, with numerous veinlets of quartz.

Description of mineral occurrence:

Small ancient workings consisting of four trenches, 100 m to 300 m apart, dug in quartz veins:

North Trench: vein of milky quartz: trending N 20° W. and N 20° E. the trench is about 30 m long, 3 m wide, and 1 m deep. Sample 131 A-RB 1172.

Southwest Trench: dug in a vein of milky quartz, trending N 50° W., 15 m long, 1 m wide, 1 m deep.

Southeast Trench: dug in a network of quartz trending N 40° W.; circular prospect pit of 3 m diameter and 1 m depth.

South Trench: dug in a quartz vein with some hematite and chrysocolla: trending E-W., 30 m long, 1 m wide, and 1 m deep. Sample No. 131 A-RB 1173.

Mineralization:

a) gangue: quartz
b) primary ore: pyrite
c) supergene minerals: hematite, chrysocolla.

BRGM report 74-JED-9, App. 3-3
(Cont.)

Texture:

Massive

Sampling results:

Chemical analyses:

Sample No.	Au g/t	Ag g/t	Cu ppm	Pb ppm	Zn ppm
131 A-RB 1172	7	<5	50	40	$<$ 25
131 A-RB 1173	10	5	250	400	1400

Form filled out by R. Brosset, June 1973

BRGM report 74-JED-9, App. 3-4
Min. Occur. No. 131 A-RB 10m
Name: Wadi 'Araqah
Mineralization: Hematite
Type: quartz vein

Area: Umm Sulaym

Latitude 22° 28' 06" N.; Longitude 45° 03' 28" E.

Geologic and geographic maps, 1:500,000 scale: I-212 A, B.

Geologic map, 1:100,000 scale: Umm Sulaym quadrangle, 22/45 C.

Regional and local geology:

Dioritic and microdioritic rock, intrusive in the Andesitic Halaban, with veinlets of quartz and some granite.

Description of mineral occurrence:

Small ancient workings consisting of two trenches, 200 m apart, dug in quartz veins:

North Trench: 15 m long, 2 m wide, 0.50 m deep trending E-W.

South Trench: 6 m long, 1 m wide, 0.20 m deep trending N-S.

Mineralization:

a) gangue: quartz
b) supergene minerals: some hematite.

Texture:

Massive

Form filled out by R. Brosset, June 1973

BRGM report 74-JED-9, App. 3-5
Min. Occur. No. 131 A-RB 11m
Name: Wādī 'Araqah
Mineralization: Hematite
Type: quartz vein.

Area: Umm Sulaym

Latitude 22° 27' 21" N.; Longitude 45° 03' 55" E.

Geologic and geographic maps, 1:500,000 scale: I-212 A, B.

Geologic map, 1:100,000 scale: Umm Sulaym quadrangle, 22/45 C.

Regional and local geology:

Dioritic and microdioritic rock, intrusive in the Andesitic Halaban, with numerous veinlets of quartz and some granite.

Description of mineral occurrence:

Small ancient workings consisting of one trench, dug in a quartz vein trending N-S., 15 m long, 1 m wide, 0.50 m deep.

Mineralization:

a) gangue: quartz
b) supergene minerals: hematite.

Texture:

Massive.

Form filled out by R. Brosset, June 1973

BRGM report 74-JED-9, App. 3-6
Min. Occur. No. 131 A-RB 12m
Name: Wādī 'Araqah
Mineralization: Hematite, copper, Au.
Type: quartz vein.

Area: Umm Sulaym

Latitude 22° 27' 37" N.; Longitude 45° 04' 09" E.

Geologic and geographic maps, 1:500,000 scale: I-212 A, B.

Geologic map, 1:100,000 scale: Umm Sulaym quadrangle, 22/45 C.

Regional and local geology:

Dioritic and microdioritic rock, intrusive in the Andesitic Halaban, with numerous veinlets of quartz.

Description of mineral occurrence:

Small ancient workings consisting of one trench, dug in a quartz vein trending N 10° E., 20 m long, 1 m wide, 0.50 m deep.

Mineralization:

a) gangue: quartz
b) supergene minerals: chrysocolla.

Sampling results:

Chemical analyses:

Sample No.	Au g/t	Ag g/t	Cu ppm	Pb ppm	Zn ppm
131 A-RB 1174	1	< 5	245	450	30

Form filled out by R. Brosset, June 1973

BRGM report 74-JED-9, App. 3-7
Min. Occur. No. 131 A-RB 13m
Name: Wādī 'Araqah
Mineralization: Au.
Type: quartz vein.

Area: Umm Sulaym

Latitude 22° 25' 33" N.; Longitude 45° 06' 10" E.

Geologic and geographic maps, 1:500,000 scale: I-212 A, B.

Geologic map, 1:100,000 scale: Umm Sulaym quadrangle, 22/45 C.

Regional and local geology:

Andesitic Halaban Formation cut by veinlets of quartz.

Description of mineral occurrence:

Small ancient workings consisting of two trenches, 50 m apart, dug in a quartz vein:

West Trench: trending E-W., 30 m long, 0.50 m wide, 0.20 m deep.

East Trench: trending N 40° W., 20 m long, 0.50 m wide, 0.20 m deep.

Mineralization:

a) gangue: quartz
b) supergene minerals: some hematite.

Sampling results:

Chemical analyses:

Sample No.	Au g/t	Ag g/t	Cu ppm	Pb ppm	Zn ppm
131 A-RB 1175	3	5	80	260	30

Form filled out by R. Brosset, June 1973

BRGM report 74-JED-9, App. 3-8
Min. Occur. No. 131 A-RB 14m
Name: Wādī 'Araqah
Mineralization: Hematite, copper, Au.
Type: quartz vein.

Area: Umm Sulaym

Latitude 22° 26' 45" N.; Longitude 45° 05' 46" E.

Geologic and geographic maps, 1:500,000 scale: I-212 A, B.

Geologic map, 1:100,000 scale: Umm Sulaym quadrangle, 22/45 C.

Regional and local geology:

Andesitic Halaban Formation cut by veinlets of quartz.

Description of mineral occurrence:

Ancient workings consisting of two groups of circular prospect pits, 250 m apart, dug in a quartz vein:

North Group: about 20 circular prospect pits, 2 m to 5 m diameter and 1 m deep each, distributed over an area of 100 m x 80 m.

Sample No. 131 A-RB 1176

South Group: 5 circular prospect pits, each with a diameter of about 5 m.

Mineralization:

a) gangue: quartz
b) primary ore: specular hematite
c) supergene minerals: malachite, chrysocolla, hematite.

Texture:

Massive

Sampling results:

Chemical analyses.

Sample No.	Au g/t	Ag g/t	Cu ppm	Pb ppm	Zn ppm
131 A-RB 1176	3	< 5	860	300	< 25

Form filled out by R. Brosset. June 1973.

BRGM report 74-JED-9, App. 3-9
Min. Occur. No. 131 A-RB 15m
Name: Wādī 'Araqah
Mineralization: Hematite, copper, Au.
Type: quartz vein

Area: Umm Sulaym

Latitude 22° 28' 55" N.; Longitude 45° 02' 25" E.

Geologic and geographic maps, 1:500,000 scale: I-212 A, B.

Geologic map, 1:100,000 scale: Umm Sulaym quadrangle, 22/45 C.

Regional and local geology:

Dioritic and microdioritic rock, intrusive in the Halaban, with veinlets of quartz.

Description of mineral occurrence:

Small ancient workings consisting of one trench dug in a quartz vein, trending N 20° E., 15 m long, 1 m wide, 0.50 m deep.

Mineralization:

a) gangue: quartz
b) supergene minerals: chrysocolla, hematite.

Texture:

Massive.

Sampling results:

Chemical analyses:

Sample No.	Au g/t	Ag g/t	Cu ppm	Pb ppm	Zn ppm
131 A-RB 1177	2	< 5	500	< 40	40

Form filled out by R. Brosset, 1973