

Table 1. Description of ancient workings in the Northwestern Hijaz Quadrangle, Kingdom of Saudi Arabia

No.	Name Location Reference	Description	Number of Samples	Assay Results		
				Gold oz/ton	Silver oz/ton	Copper percent
1	Jibba 27°42'N.x 35°41'E. or 27°35'N.x 35°43'E. Shaw, SAMS, 1936a	Shallow workings on a quartz outcrop. Ruined buildings and grinding stones.	2	returns not shown	-	-
2	Khum al Khumsuk 27°28'N.? x 36°02'E.? SAMS, no author, no date	3 aplitic dikes each about 1,200 m long. Workings on cross faults that cut dikes. Workings small but numerous	132	Trace to 0.09	-	-
3	Abu Daba 27°01'N.x 36°02'E. Larken, SAMS, 1936a		9	maximum 0.02	-	-
4	Al Khadra (Mojayreemah) 26°57'N.x 36°04'E. Larken, 1936b Csisko, 1936a	Workings on stringers of quartz and pockets of quartz in an igneous complex. Ruins.	26	Trace to 0.25	-	-
5	Al Buwaydah (Boweda) 26°54'N.x 36°02'E. Larken, 1936c Csisko, 1936b	Workings in a mineralized shear zone in granite. Shear zone N.35°W. 60°NE. as much as 7 m wide. Other workings in NW.-trending quartz veins from 0.3 to 1 m thick.	191	1 - 7.08 1 - 0.70 1 - 0.25 remainder less than 0.10	-	-
6	Hawawit (Howaweeet) 26°54'N.x 36°06'E. Larken, 1936d Csisko, 1936c This report	Workings on margins of N-striking quartz veins as much as 2 m thick. One pit more than 8 m deep on vein inter- section. Many ruined buildings grind- ing stones.	70	Trace to 0.42. Average less than 0.1	-	-

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No.	Name Location Reference	Description	Number of Samples	Assay Results		
				Gold oz/ton	Silver oz/ton	Copper percent
	Silaila 3 km north of No. 6 Larken, 1936e	2 pits each 3 m deep on quartz veins 15cm thick	4	0.23 0.11 0.08 nil	-	-
	Al Marra 2 km south of No. 6 Larken, 1936f	Quartz vein 20 m long and 6 m wide. Strikes N. nearly vertical working on east side 6 m long, 2.5 m wide, 1.5 m deep.	6	1 - 0.19 rest less than 0.10	-	-
7	Nabagah 26°49'N. x 36°04'E.? Larken, 1937 Csisko, 1937	Workings on a strong N.W.-trending quartz vein in diorite	700	4-0.7 or more 26-0.15 -0.7 rest below 0.15	-	-
8	An Naal 26°54'N. x 36°51'E. Bullock, SAMS, 1936a Bogue, 1953	Working on quartz veins about 0.3 m thick that trend N.55°E.	8	nil to 0.28	-	-
9	Abd al Qazaz 26°45'N. x 36°39'E. Bogue, 1953	Workings on narrow quartz veins.				
10	Umm Harb 26°36'N. x 36°38'E. Parks (SAMS), 1937 Bogue, 1953; This report	Workings on margins of NE.-trending quartz vein ranging from 2 to 8 m thick. Sparse sulfides	31	1 - 0.35 rest less than 0.05	-	-

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11	Antar 26°37'N.x 36°15'E. Shaw, 1936b Csisko, 1936d	Quartz vein 1400 m long. Not worked by ancients	200	Traces only	—	—
12	An Naam 26°34'N.x 36°27'E. Van de Poll, SAMS, 1936	Trenching along 3 parallel NW-striking veins that range from 100 to 130 m long.	8	3 from 0.3-0.4 5 - trace	—	—
13	Shizam (Shism at Tasa) 26°27'N.x 37°29'E. Fakhry, 1941b This report	Workings on two NW-trending fracture zones. Stopes 20 m long and 10 m deep. Ruins of a village. Slag dumps.	6	Trace	Trace	0.2-1.5
14	Al Qubbah 26°24'N.x 36°33'E. Bogue, 1953 Shanti, 1963 Okumi and others 1965 Park, 1937 This report	Numerous workings on quartz veins in diorite. Veins from a few cm to 1 m thick and from 7 to 30 m long. Park estimates 7,000 tons tailings at 0.3 oz/ton.	Many	Average less than 0.2	—	—
15	Abu Glawat (Abul Gallawat) (Ash Sha'iba?) 26°21'N.x 36°31'E. Shanti, 1963 Okumi and others 1965	Ancient village and grinding stones. Little quartz.		Tailings 0.25 Grab 0.05	—	—

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16	Shaeab al Bint (Al Bini) 26°24'N.x 36°48'E. Shanti, 1963 Okumi and others, 1965 SAMS	Workings on quartz veinlets in granite. Grinding stones.	2	less than 0.1	-	-
17	Umm ar Rihi (Ar Rihi) 26°22'N.x 36°48'E. SAMS, 1936 Shanti, 1963 Okumi and others, 1965	Workings on a N.10°E.-trending vein 1.5 m thick, and 15 m long in conglom- erate. Ruins and grinding stones.		Panning indicated 0.25-0.5	-	-
			2	low		
18	Tufayya (At tafaya) 26°22'N.x 36°48'E. SAMS, 1936 Okumi and others, 1965	Workings along 30 m of a NE.-trending quartz vein in conglomerate. Vein 70 m long is as much as 1.5 m thick	9	-	-	-
	Um Howaweetat ash Shinja 26°19'N.x 36°33'E. Shanti, 1963 Okumi and others, 1965 SAMS	Workings on irregular shear zones with quartz veinlets. SAMS estimate 14,000 tons of tailings. Metavolcanic country rock.	6	av. 0.1	-	-
	Twayel Kibra 26°19'N.x 36°32'E. Shanti, 1963	Workings on N.-trending shear zones with quartz veinlets	50	trace	-	-

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19	Al Mitqabel 26°18'N.x 36°33'E. Shanti, 1963 Okumi and others, 1965	NE-trending quartz vein about 120 m long and as much as 4 m thick. Some alteration adjacent to vein.	5	0.1	-	-
	Umm Twairat 26°18'N.x 36°33'E. Shanti, 1963 Okumi and others, 1965	Workings on E.-striking quartz vein 100 m long and from 1-3 m thick.	1	Trace	-	-
	Abu Huraimlat 26°18'N.x 36°33'E. Shanti, 1963	Quartz vein 150 m long and 1.5 m thick with secondary copper minerals. Strong wall rock alteration	14	less than 0.1	-	-
	Haramira 26°18'N.x 36°32'E. Okumi and others, 1965	Pit on one of several small quartz veins in a N.-trending zone in porphyrite.	-	av. 0.1	-	-
20	Um Huwayweetat Efshaigh 26°17'N.x 36°32'E. Shanti, 1963	Numerous small workings around ruins of a village	7	Trace	-	-
21	Um Hasheem 26°16'N.x 36°33'E. SAMS Shanti, 1963 Okumi and others, 1965	Widespread workings on veins as much as 300 m long and 2 m thick	-	av. 0.05		

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22	Um al Qurayat (Al Gurayat) 26°16'N.x 36°35'E. Bullock, 1936b; Park, 1937; Shanti, 1963; Okumi and others 1965; Bogue, 1953 This report	Workings on quartz veins in NW.-trending fault zone. Vein 3 m thick on a dip slope. Pyrite and chalcopyrite. 7 drill holes below old workings.	89	Ore in place - 70,000 tons at 0.18 Stope fill and waste 50,000 tons at 0.25 av. 0.1	-	-
23	Al Kuhul 26°17'N.x 36°43'E.	-	-	-	-	-
24	Abu Nafeela (Ra's Abu Nafeela) 26°15'N.x 36°34'E. SAMS, 1936 Shanti, 1963 Okumi and others, 1965	Workings on 2 veins from 1 to 2 m thick over a length of 650 m. Bedded country rocks, some alteration	22,000 tons material 216	at 0.18 av. 0.1	-	-
25	Ash Shuwatna 26°14'N.x 36°33'E. SAMS, 1936 Shanti, 1963 Okumi and others, 1965	Workings 300 m long and as much as 15 m deep on quartz veins 1.5 m thick that trend NW. in metasedimentary rocks	250	av. 0.1	-	-
26	Nasra (Al Qurray) 26°14'N.x 36°41'E. Shanti, 1963 Okumi and others, 1965 This report	Pit on gray quartz vein in dioritic rock and greenstone. Vein N.65°E., 150 m long. Offset 20 m by a fault	19	less than 0.01	-	-

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				Gold oz/ton	Silver oz/ton	Copper percent
27	Khor ash Shamali (Khor al Gibli) 26°13'N.x 36°36'E. SAMS Shanti, 1963 Okumi and others, 1965	Pit on vein that is 100 m long and from 2 to 6 m thick.	29	tr. to 0.13	-	-
28	Abu Nethiara 26°13'N.x 36°38'E. Okumi and others, 1965	Workings on NW.-trending quartz veins in sandstone. 1 vein 100 m long and 1.3 m thick.	3,500 9	tons waste at 0.13 av. 0.09	-	-
29	An Nahdein I & II 26°11'N.x 36°36'E. SAMS Shanti, 1963 Okumi and others, 1965	Workings on NE,- and NW.-trending quartz veins in sandstone. Veins as much as 100 m long and 2 m thick.	4,000 Nahdein II 500 tons 26	tons waste 0.15 ore 0.24 0.05 to 0.4 av. 0.14	-	-
30	Khor al Gibli 26°11'N.x 36°39'E. Shanti, 1963 Okumi and others, 1965	Filled workings along a NW.-trending vein in schistose sandstone. Vein 200 m long and as much as 1.5 m thick.	-	Maximum 0.1	-	-
31	Khor al Arja (Al Khaur) 26°11'N.x 36°39'E. SAMS (Park, 1937) Bogue, 1953 Shanti, 1963 Okumi and others, 1965	NW.-trending veins in sandstone. Large waste dumps indicate extensive workings. Drilled by SAMS.	17,000 12,000 59	tons waste at 0.35 tons rock in place 0.09 0.33	-	-

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				Gold oz/ton	Silver oz/ton	Copper percent
32	Al Guib 26°09'N.x 36°36'E. Okumi and others, 1965	Workings on veinlets and 1 vein 300 m long in biotite granite	3	1 sample from vein 0.62	-	-
33	Abu Seirat (Dharamah) 26°09'N.x 36°43'E. Shanti, 1963 Okumi and others, 1965	Prospect pits on quartz vein 50 m long and 1 m thick and on nearby veinlets	-	-	-	-
34	Ab al Maru 26°08'N.x 36°41'E. SAMS Bogue, 1953 Shanti, 1963 Okumi and others, 1965 This report	Workings on NE.-trending quartz vein in granite. Vein 60 m long and as much as 8 m thick. Prominent N.-striking vein nearby not worked.	20	Maximum 0.1	-	-
35	Ash Shuhaiba 26°08'N.x.36°40'E. SAMS Shanti, 1963 Okumi and others, 1965	Workings on both E.- and N.-trending quartz veins as much as 300 m long. 1 stope 5 m deep.	45	av. 0.1 maximum 0.9	-	-
	Al Wajh district Okumi and others, 1965	Samples from quartz veins Samples from ancient workings	344 800	0.002 Av. 0.058	0.082 0.115	-
36	Umm Faqur (Umm Fogoor) 26°12'N.? x 37°59'E.? Fakhry, 1941b	Ruins and grinding stones over an area of 1.6 by 0.8 km 3 veins from 100 to 115 m long.	3	2 trace 1 0.34	-	-

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No.	Name Location Reference	Description	Number of Samples	Assay Results		
				Gold oz/ton	Silver oz/ton	Copper percent
	Al Maeen 3.5 kilometers southwest of Umm Faqur Fakhry, 1941b	Ruins and grinding stones. 2 veins, 140 and 210 m long and as much as 1.5 m thick.	2	0.43 0.29	-	-
37	Kabreetiyah 26°13'N.? x 38°15'E.? Fakhry, 1941b	Workings on 3 veins 115, 180, and 210 m long. Stopes to 4 m deep. Ruins with grinding stones.	4	trace to 0.03	-	-
37contd.	Kabreetiyah al Hamra 14 kilometers N.30°W. from Kabreetiyah Fakhry, 1941b	Small workings, ruins with grinding stones	1	0.33	-	-
38	Zumurrud (Zumurod) 26°10'N.x 38°19'E. Fakhry, 1941b	Workings on two veins 150 and 130 m long. Ruins and grinding stones	2	1.06 0.30	-	-
	Zumurudat Near Zumurud well Fakhry, 1941b	Filled pits. Little quartz	1	trace	-	-
39	Not known possibly one of the above 37 or 38 26°05'N.x 38°21'E. This report	Workings and ruins seen from the air.	-	-	-	-
40	Suwaykah 25°51'N.x 37°10'E. Bogue, 1953	Quartz veins along a mineralized fault zone in schist. Fault zone trends E. and is 1,300 m long. Pyrite and secondary copper minerals. Ruins.	-	-	-	-

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41	Mehayfir 25°44'N.x 37°14'E. Shaw, SAMS, 1936c	Dikes in diorite are sheared and opening filled with quartz. Sparse sulfides. Ruins and grinding stones	5	trace to 0.02	-	-
42	Hamim (Hammam) 25°31'N.x 37°19'E. Bullock, SAMS, 1936c Bogue, 1953 Schaffner, 1958b Shanti, 1963 This report	Workings on vein on N.50°W. fault zone. Stopes 60 m long and 30 m deep. High assay from brecciated quartz on edge of vein.	12		maximum	-
			1	3.77	0.16	
			11	max. 0.09		
	Al Buhayr (Buhir) 25°31'N.x 37°19'E. Bogue, 1953 Schaffner, 1958b	Workings along 40 m of an E.-striking quartz vein that ranges from a few centimeters to 1 m in thickness.	2	trace	-	-
	Al Bonar 25°31'N.x 37°12'E. Schaffner, 1958a	Small scattered quartz veins	2	trace	0.15	-
43	Abu al Maru 25°24'N.x 37°19'E. Schaffner, 1958a	Two workings 1 km apart, West working on N.-striking quartz vein 130 m long and less than 1 m thick. East working on E.-striking vein 100 m long and 1 m thick.	4	trace to 0.08	0.08-0.14	-

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44	Um ar Rihi (Al Uwaynid?) 25°09'N.x 37°24'E. Schaffner, 1958a	Workings on narrow N.-trending quartz veins in schist on both sides of Wadi Samnah. Ruins and grinding stones	1	trace	0.14	-
45	Khol Khol Wadi Samnah 6 kilometers S. of Um ar Rihi 25°08'N.? x 37°25'E.? SAMS Bogue, 1953	Pits on NW.-striking vein 60 m long. Working 20 m long and 2 to 4 m deep on quartz vein in gneissic granite. Vein N.15°W. Ruins and grinding stones.	3	-	-	-
46	Not known 25°16'N.x 38°09'E. This report	Workings 20 m long and 6 m deep on E.-trending quartz vein 100 m long and 1 m thick. Most quartz not mined Cu minerals. Ruins.	-	-	-	-
47	Tura'ah 25°16'N.? x 38°27'E.? Fakhry, 1941a	Ruins and workings.	-	-	-	-
48	Al Agangal 24°55'N.x 38°06'E. Bhutta, 1960b This report	NE.-trending quartz vein 0.6 m wide in Halaban Andesite. Caved workings. Ruins at base of hill.	2	0.01 trace	0.77 0.63	-
49	Murayjib 24°52'N.x 38°24'E. Twitchell, SAMS, 1937 Shanti, 1963 This report	7 nearly E.-trending quartz veins occupy tension fractures on crest of a N.-trending anticline in Hadiyah Slate. Veins about 0.2 m thick stopes 15 m long and 8 m deep.	90	10 more than 0.25	-	-

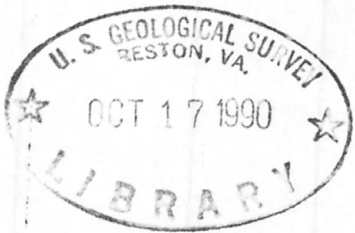
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50	Haradah (Murayjib) 24°51'N.x 38°24'E. Shanti, 1963 This report	Numerous quartz veins on contact of Hadiyah Slate and Halaban Andesite on nose of an anticline	-	-	-	-
51	Khor al Bilwi (Bilwi) 24°50'N.x 38°25'E. Twitchell, SAMS, 1937; Shanti, 1963 This report	Quartz veins in Halaban Andesite along a NNE.-trending fault. Workings to 6 m depth on fractures near veins, 3 drill holes	21	2 over 0.05	-	-
52	Hashayim (Umm Hashayem) 24°47'N.x 38°24'E. Twitchell, SAMS, 1937 Shanti, 1963	Shallow workings on veinlets in cross fractures on crest of anticline	20 1 19	0,38 Trace to 0.15	-	-
53	Umm Hufra 24°43'N.x 38°25'E. Twitchell, SAMS, 1937 Shanti, 1963 This report	Working on quartz vein on contact of granitic intrusion into Hadiyah Slate, in granite and in slate. Halaban Andesite nearby in core of anticline.	33	Trace to 0.66 av. 0.1	-	-
54	Marwa 24°23'N.x 38°27'E. Twitchell, SAMS, 1933	Workings on quartz stockworks in schistose andesitic rock.	-	-	-	-
	Ad Darr (placer) 24°23'N.x 38°27'E. Twitchell, SAMS, 1933	Wadi Fara'ah 10 holes drilled to a maximum of 13 m	-	-	-	-

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				Gold oz/ton	Silver oz/ton	Lead percent
55	Lulwa 24°17'N.x 38°23'E. Twitchell, SAMS, 1933	Pits in pockets of vein quartz in granitic rock	1	-	-	-
56	Guntha 24°15'N.? x 38°20'E.? SAMS	2 N.-striking veins in dioritic rock. Veins 80 m long and 1 m thick. Low dipping.	-	less than 0.1	-	-
57	Ghunthar 24°22'N.x 38°11'E. Twitchell, SAMS, 1933	Quartz segregation in dioritic rock. Ruins of 26 buildings numerous grind- ing stones	5	-	-	-
58	Rerga 24°17'N.x 37°51'E. SAMS	Vein in unconsolidated conglomerate Vein filled with chalcedony some galena. Workings.	5	trace	trace	low

Note: Locations refer to map of Brown and others, 1963 edition.



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