Table 1.--Assay values, in ppm, for samples collected at sites shown on map. Most samples are within the 15 target areas defined by Samater (1989) and Salah (1985).

[Detection limits are: 0.002 ppm (Au), 0.05 ppm (Ag), 5 ppm (Cu), 5 ppm (Pb), 5 ppm (Zn), 5 ppm (As), 1 ppm (Sb), and 0.005 (Te; value is shown to nearest 1 ppm). A value of 0 indicates that amount is below detection limit; a dash indicates that Sb was not analyzed].

Sample Number	Au	Ag	Cu	Pb	Zn	As	Sb	Te
Target A-1								
243235	0	0	60	0	60	0	-	0
243237	0.006	0	20	0	50	0	-	0
243238	0.007	0	60	0	50	0	-	0
243239	0.004	1.5	75	0	65	0	-	0
243240	0	0	20	0	60	0	-	0
Target A-2								
243304	0.003	0	25	0	30	0	-	0
243305	0.150	0.25	3,750	0	25	0	-	0
243306	0	0	10	0	10	0	-	0
243307	0.014	0	15	0	10	0	-	0
Target A-3								
243203	0.003	0	15	0	45	0	1	0
243204	0.990	8.4	85	5	40	15	2	4
243205	0.070	0.2	25	0	75	15	0	0
243207	0.009	0.2	10	10	50	15	0	0
243208	0.030	0	25	30	95	55	0	0
243209	2.900	0.6	45	0	95	50	1	4
243210	0.009	0.2	55	0	20	0	0	0
243211	1.500	0.5	50	0	130	70	0	0
243213	0.014	0.2	205	0	90	370	2	0
243215	0	0	20	35	250	0	0	2
243216	0.004	0	10	0	20	0	0	2
243217	0	0	0	0	15	0	0	1
243218	0	0	35	0	275	0	0	4
243219	0	0	10	0	95	0	0	1
Target A-4								
243327	0.003	0.10	20	0	10	0	-	0
243328	0.016	0	60	0	55	0	-	0
243329	0	0	20	0	50	0	-	0
243330	0.014	0	10	0	25	15	-	0
Targets A-5 and A-6								
243285	0.006	0	15	0	25	5	-	0
243286	0	0	15	0	20	0	-	0
243287	0.060	0	280	0	55	0	-	0
243288	0.005	0	15	0	15	0	-	0
Target A-10								
243297	0.010	0	150	0	180	0	-	0
243298	0.060	0.15	10	0	10	0	-	0
243299	0.006	0	60	0	25	0	-	0
243300	0.400	0.10	10	0	15	0	-	0
243301	0.010	0	10	0	10	0	-	0
243302	0.020	0	50	0	60	5	-	0
243303	0.080	0.10	45	0	40	0	-	-
Target A-14								
243319	0.025	0.30	45	0	130	120	-	0
243320	0.025	0	45	5	640	180	-	0
243321	0.010	0	40	0	115	10	-	0
243322	0.016	0.55	110	40	90	2,850	-	0
243323	3.000	110	16,500	9,150	8,200	740	-	13
Target A-15								
243265	0.005	0.10	15	0	15	0	-	0
243266	0.035	0.10	60	0	60	0	-	0
243267	0.014	0	45	0	45	0	-	0
Target A-16								
243315	0	0	15	0	65	15	-	0
243316	0.003	0	15	0	85	0	-	0
243317	0	0	75	0	145	70	-	0
243318	0	0.10	25	0	65	510	-	0
Target A-17								
243256	3.100	0	60	0	25	70	-	0
243257	0.005	0.30	55	0	35	0	-	0
243259	0	0	40	0	25	0	-	0
243260	0	0	45	0	45	0	-	0
243261	0	0	55	0	20	0	-	0
243262	0	0	20	0	45	0	-	0
243264	0.003	0.20	55	65	85	0	-	0
243268	0	0.10	10	0	80	0	-	0
Target A-18								
243222	0.007	0	20	0	45	30	1	0
243223	0.012	0	70	45	145	5	0	0
243224	0.030	0	75	0	135	0	0	0
243225	0	0	95	0	105	0	0	0
243226	0	0	65	0	70	195	0	0
243227	0	0	40	0	65	15	0	0
Target A-19								
243233	0.010	0	20	0	30	200	0	0
243234	0.010	0	125	0	20	40	0	0
Target A-20								
243241	0	0	10	0	10	0	-	0
243242	0	0	0	125	0	65	-	0
243243	0	0.15	30	90	3,050	0	-	0
243245	0.004	0	15	0	10	0	-	0
243246	0.005	0	35	0	20	0	-	0
243248	0.003	0	20	0	50	0	-	0
243250	0	0.10	25	0	45	0	-	0
Target Y-7								
243331	0.010	0	55	0	10	0	-	0
243332	0.004	0	15	0	30	0	-	0
243333	0.001	0	10	0	25	0	-	0
243334	0.005	0.15	55	5	55	0	-	0
Samples outside target areas Wadi Maslulah								
243228	0.016	0	130	20	370	230	0	2
243229	0.004	0	15	0	375	5	0	0
243230	0.003	0	70	5	245	10	0	0
243231	0.012	0.20	100	0	20	20	-	0
243232	0.003	0.10	105	20	90	5	-	0
Hemair south area								
243324	0.009	0	55	10	110	115	-	0
243325	0.480	0	45	0	20	450	-	0
243326	0	0	5	0	20	0	-	1

A-4 OUTLINE OF ANOMALOUS AREA--Showing target number. Target A areas from Samater (1989), target Y area from Saleh (1985)

ZONE OF PYRITIZATION--Locally silicified

ANCIENT MINE

256 RASS NUMBER--Showing last 3 digits. Numbers begin with 243 (e.g., 243256)

SAMPLE-SITE LOCALITY--Showing rock type and sample number

● 332 Quartz vein

○ 320 Pyritic zone--May be silicified and oxidized

■ 325 Dolomitic zone--Ferruginous; generally quartz veined

□ 315 Oxidized rock--Locally ferruginous

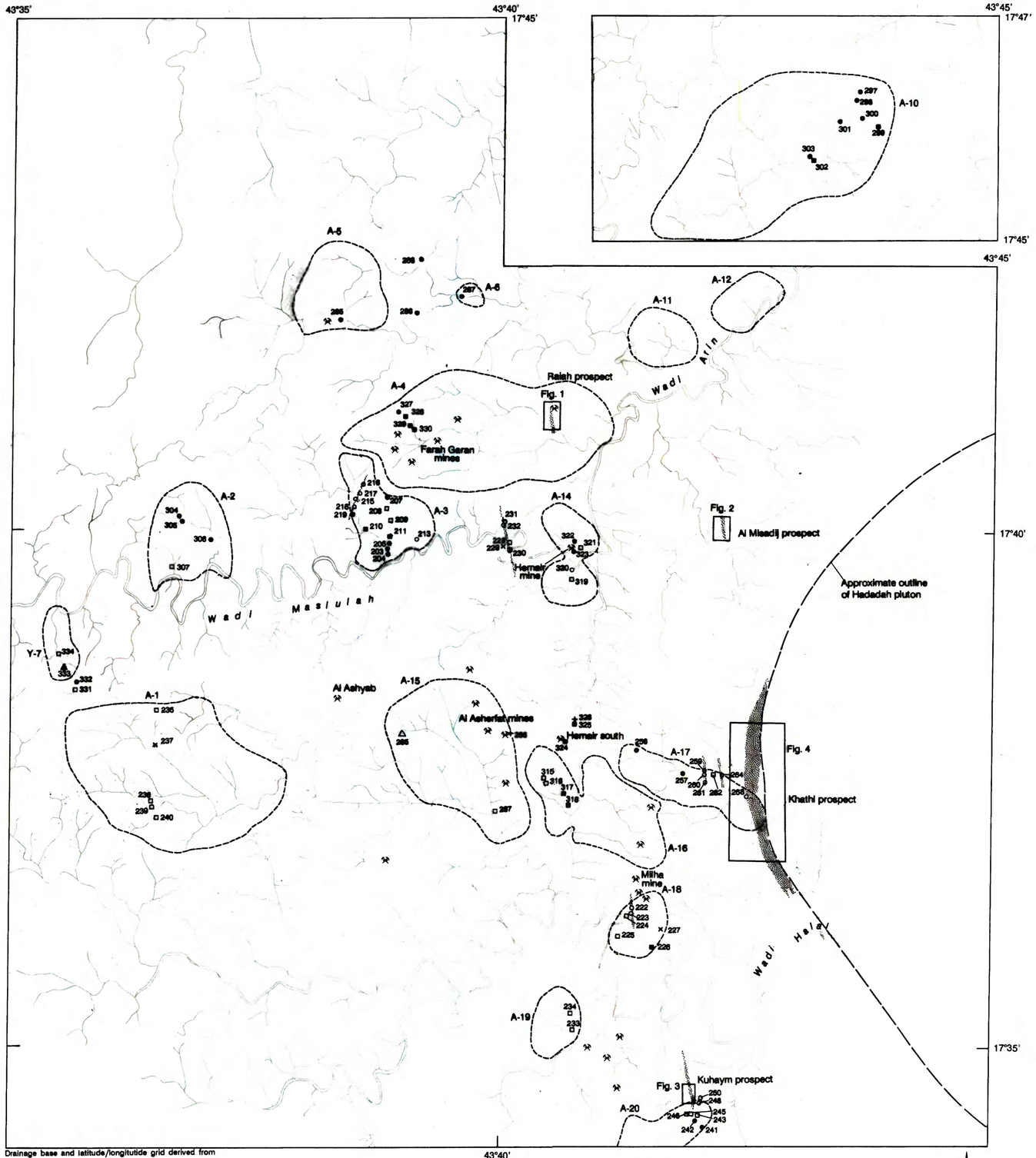
▲ 333 Shear zone--Unoxidized

△ 265 Gossan

+ 326 Unaltered rock

× 237 Soil

MAJOR WADI SYSTEM



Drainage base and latitude/longitude grid derived from the 1:50,000-scale topographic maps of the Zahram Al Janub quadrangle (sheet 4317-13) and the Badr Al Janub quadrangle (sheet 4317-14).

GEOCHEMICAL ROCK-CHIP- AND GRAB-SAMPLE-SITE LOCALITY MAP OF THE FARAH GARAN DISTRICT, SHOWING ANOMALOUS AREAS AND PROSPECTS

FOLLOW-UP EVALUATION OF FIFTEEN GEOCHEMICALLY ANOMALOUS AREAS AND EVALUATION OF FOUR PROSPECTS IN THE FARAH GARAN - KUTAM MINERAL BELT, KINGDOM OF SAUDI ARABIA

This report has not been edited or reviewed for conformity with U.S. Geological Survey standards and nomenclature.

BY

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