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SALT LAKE CITY, UTAH

ASSAY DATA \* OF SAMPLES FROM  
ANTIMONY CANYON, GARFIELD COUNTY, UTAH  
TO ACCOMPANY OPEN FILE RELEASE OF

U. S. GEOLOGICAL SURVEY PRELIMINARY MAPS  
PLATES 1 to 4 and FIGURES 1 to 3

MAY 1949  
49-10

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**ALHION, NEVADA, AND SOUTHWEST PART OF EMMA CLAIMS  
ANTIMONY CANYON, GARFIELD COUNTY, UTAH**

U. S. Bureau of Mines assay data

**ALHION CLAIM (Plate 1)**

**TRENCH SAMPLES**

Trench Number	Sample Number	% Sb	Trench Number	Sample Number	% Sb	Trench Number	Sample Number	Percent Antimony
1	1	0.12	4	6	0.05	9	19	0.11
1	2	0.05	4	7	0.05	9	20	0.05
2	3	0.05	5	8	0.05	10	21	0.27
3	4	0.08	5	9	0.05	10	22	0.21
3	5	0.05	9	17	5.60	10	23	0.16
			9	18	0.06	10	24	0.05

**FACE SAMPLES**

Face Number	Sample Number	% Sb
1	101	0.21
2	102	2.69

**NEVADA CLAIM (Plates 1 and 4-C)**

**TRENCH SAMPLES**

Trench Number	Sample Number	% Sb	Trench Number	Sample Number	% Sb	Trench Number	Sample Number	% Sb
11	25	0.05	12	31	0.05	15	37	0.05
11	26	0.05	13	32	0.05	15	38	0.05
11	27	0.05	14	33	0.05	16	39	0.05
11	28	0.05	14	34	0.05	16	40	0.05
11	29	0.05	14	35	0.06	16	41	0.29
11	30	0.05	15	36	0.05	16	42	0.05

**FACE SAMPLES**

Face Number	Sample Number	% Sb	Face Number	Sample Number	% Sb	Face Number	Sample Number	% Sb
5	105	0.43	7	112	0.88	8	120	0.52
5	106	0.15	7	113	0.52	8	121	0.61
5	107	0.43	7	114	0.49	8	122	0.05
6	108	2.66	7	115	0.81	9	123	0.05
6	109	0.38	7	116	0.52	9	124	0.05
6	110	0.53	7	117	0.38	9	125	0.05
6	111	1.04	8	118	5.42	9	126	0.15
			8	119	0.12			

ALBION, NEVADA AND SOUTHWEST PART OF EMMA CLAIM (continued)

UNDERGROUND SAMPLES

Sample Number	Vertical Length	% Sb
201	5.0 ft.	2.08
202	4.5 "	0.32
203	5.0 "	0.05
204	5.0 "	0.05

EMMA CLAIM (Plates 1 and 4-B)

TRENCH SAMPLES

Trench Number	Sample Number	% Sb	Trench Number	Sample Number	% Sb	Trench Number	Sample Number	% Sb
6	10	0.05	20	52	0.01	25	69	0.05
6	11	0.05	20	53	0.08	26	70	0.55
7	12	0.05	20	54	0.05	26	71	0.08
8	13	0.55	21	55	0.07	26	72	0.04
8	14	0.05	22	56	0.06	27	73	0.03
8	15	0.05	22	57	0.03	27	74	0.04
8	16	0.05	22	58	0.07	28	75	0.10
17	43	0.06	23	59	0.07	28	76	0.13
17	44	0.15	23	60	0.07	28	77	0.23
17	45	1.65	23	61	0.20	29	78	0.11
18	46	0.14	23	62	0.38	29	79	0.22
18	47	0.05	24	63	0.05	30	80	0.09
18	48	0.05	24	64	0.06	30	81	0.06
19	49	0.16	24	65	0.34	30	82	0.05
19	50	0.11	25	66	0.06	30	83	0.05
19	51	0.02	25	67	0.07	31	84	0.05
			25	68	0.13	31	85	0.08

FACE SAMPLES

Face Number	Sample Number	% Sb	Face Number	Sample Number	% Sb	Face Number	Sample Number	% Sb
3	103	0.64	11	130	0.07	13	134	0.14
4	104	2.29	11	131	1.39	13	135	0.28
10	127	0.89	12	132	0.09	14	136	0.03
10	128	1.40	12	133	0.64	14	137	0.06
10	129	0.31						

ALBION, NEVADA, AND SOUTHWEST PART OF EMMA CLAIM (continued)

UNDERGROUND SAMPLES

Sample Number	Vertical Length	% Sb	Sample Number	Vertical Length	% Sb	Sample Number	Vertical Length	% Sb
205	5.0 ft.	0.15	210	3.0 ft.	0.54	217	5.0 ft.	3.60
206	5.0	0.28	211	6.5 "	0.15	217a	5.0 "	0.07
206a	3.0 "	6.04	212	7.0 "	0.09	217b	5.0 "	0.05
207	5.0 "	0.23	213	7.0 "	0.13	217c	5.0 "	0.05
208	5.0 "	1.25	214	7.0 "	0.46	218	5.0 "	1.73
209	5.0 "	0.08	215	7.0 "	0.10	219	5.0 "	0.51
			216	5.0 "	1.20	220	5.0 "	0.19

All samples are 5-foot vertical length unless otherwise indicated.

NORTHEAST PART OF EMMA CLAIM  
ANTIMONY CANYON, GARFIELD COUNTY, UTAH

U. S. Bureau of Mines assay data

TRENCH SAMPLES (Plates 2 and 4A)

Trench Number	Sample Number	% Sb	Trench Number	Sample Number	% Sb	Trench Number	Sample Number	% Sb
41	322	1.45	47	341	0.86	56	360	0.21
41	323	0.15	47	342	0.35	57	361	0.54
41	324	0.25	47	343	2.50	57	362	0.31
42	325	0.35	48	344	8.13	57	363	0.24
42	326	0.45	48	345	2.13	58	364	0.77
43	327	0.30	48	346	3.73	58	365	0.24
43	328	0.90	48	347	1.33	58	366	1.44
43	329	0.07	49	348	2.16	60	367	0.21
44	330	0.30	49	349	2.60	60	369	0.19
44	331	0.90	49	350	2.75	60	370	0.23
44	332	0.07	50	351	0.87	60	371	0.20
45	333	0.65	50	352	0.05	61	372	0.74
45	334	1.30	51	353	0.95	61	373	0.93
45	335	0.14	51	354	0.58	61	374	0.15
45	336	0.28	55	355	0.05	61	375	0.39
45	337	0.05	55	356	0.05	61	376	0.36
46	338	1.18	56	357	0.31	61	377	1.29
46	339	4.15	56	358	0.79	62	378	0.17
46	340	0.52	56	359	0.41	62	379	0.08

UNDERGROUND SAMPLES (Plate 2 and Figure 2)

Sample Number	Vertical length	% Sb	Sample Number	Vertical length	% Sb	Sample Number	Vertical length	% Sb
221	6 ft.	0.05	232	6 ft.	0.19	242	4 ft.	0.36
222	3.5 "	0.06	233	5 "	0.53	243	5 "	0.40
222a	3.5 "	0.10	233a	5 "	0.71	244	5 "	0.37
223	4 "	0.11	233b	5 "	0.30	246	5 "	1.55
223a	4 "	0.10	233c	5 "	0.09	247	5 "	0.16
224	6 "	0.17	233d	7 "	0.06	248a	5 "	0.05
225	5 "	0.09	234	5 "	0.54	248	5 "	1.87
226	5 "	0.09	235	6 "	0.82	(249		2.17
226a	1.5 "	0.07	236	6 "	0.38	(249a		3.64
227	6 "	0.04	237	6 "	0.42	(250		1.62
228	6 "	1.69	238a	5 "	0.18	(250a		0.94
229	5 "	0.10	238	5 "	0.30	(238b	31 inches	0.32
229a	5 "	0.18	239	5 "	0.77	(239a	28 "	0.62
230	4 "	1.20	240	5 "	0.81	(240a	34 "	1.32
230a	2.5 "	0.35	241	5 "	2.31	(242b	24 "	0.33
231	6 "	0.18	242a	4 "	0.28	(246a	20 "	3.07

1/ Plate 2

2/ Sample taken of best mineralisation in cuts of like numbers.

NORTHEAST PART OF NWA CLAIM (Continued)

FACE SAMPLES (Plate 2 and Figure 2)

Face Number	Sample Number	% Sb	Face Number	Sample Number	% Sb	Face Number	Sample Number	% Sb
16	139	0.07	21	166	2.61	29	193	0.60
16	140	0.31	21	167	1.49	29	194	0.36
16	141	2.93	21	168	5.14	29	195	0.72
16	142	0.11	21	169	0.61	30	196	0.24
16	143	0.06	22	170	0.40	30	197	0.45
17	144	1.41	22	171	1.68	31	198	0.24
17	145	0.19	22	172	0.45	31	199	0.95
17	146	0.91	22	173	0.65	31	400	0.78
17	147	1.82	23	174	0.21	32	401	0.53
17	148	0.26	23	175	0.19	32	402	0.77
18	149	0.67	23	176	1.58	32	403	0.35
18	150	0.93	23	177	1.68	32	404	0.17
18	151	0.87	24	178	0.37	32	405	0.15
18	152	0.95	24	179	1.55	33	406	0.09
18	153	1.93	24	180	0.30	33	407	0.10
18	154	0.39	24	181	2.21	33	408	0.14
19	155	1.51	25	182	0.52	34	409	0.05
19	156	0.45	25	183	0.74	34	410	0.07
19	157	0.50	25	184	1.28	34	411	0.09
19	158	1.84	26	185	0.45	35	412	0.07
19	159	0.49	26	186	3.85	35	413	0.08
20	160	1.49	27	187	0.48	35	414	0.07
20	161	1.18	27	188	4.16	35	415	0.17
20	162	1.29	27	189	3.38	36	416	0.28
20	163	1.53	28	190	0.45	36	417	0.52
20	164	1.10	28	191	0.81	36	418	0.17
20	165	0.45	29	192	1.00	36	419	0.06
						36	420	0.05



STEBINITE, STELLA AND PART OF MAMMOTH CLAIMS  
ANTIMONY CANYON, GARFIELD COUNTY, UTAH

U. S. Bureau of Mines assay data

STEBINITE CLAIM (Plate 3)

TRENCH SAMPLES  
(Plates 3 and 4-D)

Trench Number	Sample Number	% Sb	Trench Number	Sample Number	% Sb	Trench Number	Sample Number	% Sb
1	1	0.08	3	5	0.24	4	9	0.05
2	2	0.34	3	6	0.18	5	10	0.29
2	3	0.21	4	7	0.56	5	11	0.05
2	4	0.24	4	8	0.05			

FACE SAMPLES (Plates 3 and 4-D)

Face Number	Sample Number	% Sb	Face Number	Sample Number	% Sb	Face Number	Sample Number	% Sb
1	201	0.50	2	207	0.25	3	212	0.07
1	202	0.23	2	208	0.16	3	213	0.11
1	203	0.24	2	209	0.12	3	214	0.24
1	204	0.06	2	210	0.22	3	215	0.86
1	205	0.08	2	211	1.20	4	216	0.87
1	206	0.38				4	217	0.60

UNDERGROUND SAMPLES (Plate 3 and Figure 3)

Sample Number	Location	Vertical Length	% Sb	Sample Number	Location	Vertical Length	% Sb
301	Side	5 ft	2.23	313	Side	5 ft	1.74
302	Breast	5 "	1.31	314	Breast	5 "	2.44
303	Side	5 "	0.44	315	Side	5 "	0.20
304	"	5 "	0.70	316	Breast	5 "	1.32
305	"	5 "	3.43	317	Side	5 "	0.60
306	Breast	6 "	3.29	317a	Side	3 "	1.47
307	Side	5 "	1.87	318	Breast	5 "	1.53
308	Breast	5 "	1.72	318a	Breast	3 "	0.40
309	Side	6 "	1.55	319	Side	5 "	9.93
310	Side	5 "	3.35	319a	Side	2.5 "	0.88
311	Breast	5 "	0.76	320	Side	4 "	0.62
312	Side	5 "	1.53	321	Side	4 "	2.81

STEBINITE, STELLA AND PART OF MAMMOTH CLAIMS (continued)

STELLA CLAIM (Plates 3 and 4E-G)

FACE SAMPLES

Face Number	Sample Number	% Sb	Face Number	Sample Number	% Sb	Face Number	Sample Number	% Sb
2	204	0.47	6	221	0.73	11	237	0.22
2	205	0.05	6	222	0.89	11	238	4.26
2	206	0.10	7	223	0.47	12	239	4.83
2	207	0.09	7	224	0.16	13	240	0.16
2	208	0.75	7	225	0.19	14	241	0.48
2	209	0.12	7	226	0.16	14	242	0.20
3	210	0.24	7	227	0.86	14	243	0.18
3	211	0.53	8	228	0.05	14	244	0.25
3	212	0.37	8	229	0.61	14	245	0.35
3	213	1.51	8	230	0.25	14	246	0.29
3	214	0.11	9	231	0.46	15	247	0.20
4	215	0.21	9	232a	0.33	15	247a	2.23
4	216	0.08	9	232	0.44	15	248	0.56
5	217	0.40	10	233	0.37	15	249	1.12
5	218	0.82	10	234	0.15	15	250	0.34
5	219	0.25	10	235	0.37	15	251	0.28
6	220	0.38	10	236	0.43	15	252	1.23
						15	253	0.43

No trench samples taken

MAMMOTH CLAIM (Plates 3 and 4-H)

FACE SAMPLES

Face Number	Sample Number	% Sb	Face Number	Sample Number	% Sb	Face Number	Sample Number	% Sb
1	501	0.13	3	506	0.32	4	509	0.30
2	502	0.09	3	507	0.34	4	510	0.71
2	503	0.48	3	508a	1.50	4	511	0.22
2	504	0.18	3a	508	1.60	4	512	0.84
2	505	0.24						

No trench samples taken



**MAAMOTH MINE (Figure 1)  
ANTIMONY CANYON, GARFIELD COUNTY, UTAH**

U. S. Bureau of Mines assay data

**MINE SAMPLES**

Number	Location	Vertical length	% Sb
16	side	3.33 ft.	2.99
16	side	3.00 "	5.98
17	side	2.00 "	1.04
17	side	5.00 "	2.64
18	side	2.67 "	0.35
19	side	2.50 "	0.44
20	side	3.00 "	3.40
21	side	2.16 "	6.91
22	side	3.33 "	0.38
23	side	3.50 "	0.25
23	side	3.00 "	5.15
24	side	2.67 "	4.26
25	side	2.50 "	0.56
25	side	3.25 "	2.35
26	breast	3.17 "	11.55

Average per 5-foot sample = 3.70% antimony

**FACE SAMPLES (Figure 1, Plate 4-I)**

Face Number	Sample Number	Length	% Sb
6	513	3.25 ft.	0.40
6	514	3.83 "	0.45
7	515	5.0 "	0.40
7	516	4.5 "	2.46
8	517	5.0 "	0.35
8	518	2.83 "	4.15
9	519	5.0 "	0.20
9	520	2.0 "	2.52
10	521	5.0 "	0.31
10	522	2.33 "	5.83
11	523	3.5 "	0.21
11	524	5.0 "	0.48
11	525	3.17 "	0.29
12	526	5.0 "	1.14
12	527	2.75 "	0.73
13	528	3.5 "	0.45
13	529	2.6 "	0.48
14	530	5.0 "	0.20
14	531	2.17 "	1.04
15	532	5.0 "	0.42
15	533	5.0 "	1.21

No trench samples taken.

EXPLANATION



Antimony ore (Irregularly distributed veinlets of stibnite and antimony oxides in sandstone).



Sample cut of U. S. Bureau of Mines



Dump

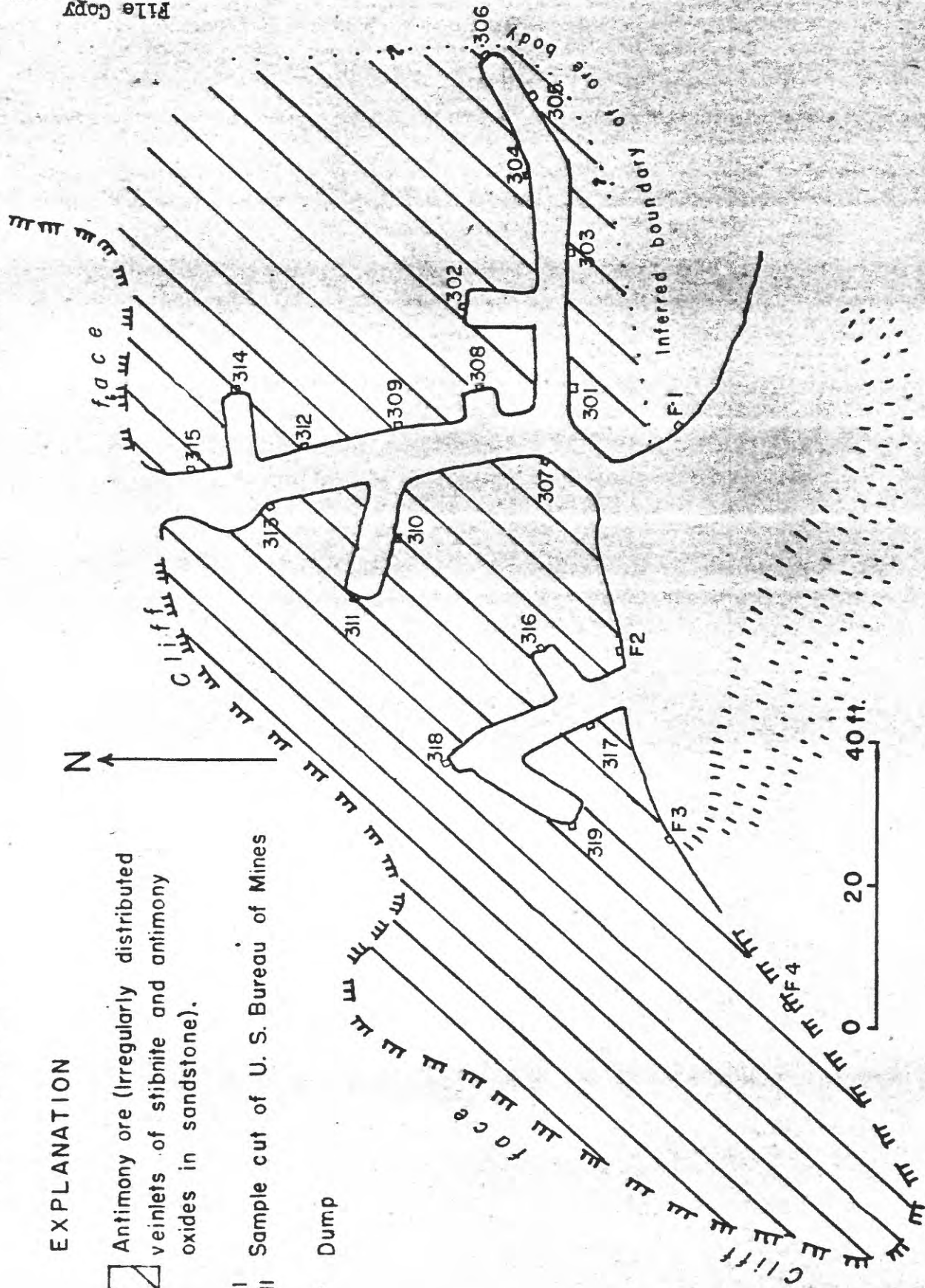


FIGURE 3. STEBINITE MINE, showing plan of principal ore body.

By D.C. Duncan and W.H. Myers

U.S. Geological Survey

Surveyed in 1941

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