

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Chemical Analyses (Raw Laboratory Data) and
Locality Index Maps of the Confederate
Gulch Area, Broadwater and Meagher
Counties, Montana

By
U.S. Geological Survey

Open-file report No. 75-212

1975

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

Chemical analyses (raw laboratory data) and locality
index maps of the Confederate Gulch area,
Broadwater and Meagher Counties, Montana

Analytical data

Samples collected in the Confederate Gulch area, Montana, were analyzed by the Field Services Section of the U.S. Geological Survey using semi-quantitative spectrographic methods. In addition, most samples were analyzed for gold and copper and some for lead by atomic absorption methods and for mercury using the mercury detector. Samples W-1, G-2, and BCR-1 were used as internal spectrographic standards. Field numbers correspond to field localities plotted by number on the sample locality maps, but the majority of points on these maps were not sampled. The analysts are identified on one page of each group of samples.

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Samples arranged by sample submission groups

Spectrographic Analyses*

<u>Report No.</u>	<u>No. of samples</u>	<u>No. of first and last in group</u>	<u>Pages</u>
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HM 2057	40	DC. 2B - DG 126	5 - 12
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HM 2686	20	DG 248A - 816	17 - 20
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HM 3971	14	DG 1440 - 1388	136 - 139
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*some samples analyzed more than once

Atomic Absorption (Au, Cu, Pb) and Mercury analyses

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[illegible]

REMARKS: Fe, Mn, Ca, and Ti reported in %; all other elements reported in ppm. Results are reported in the

FILM NO. C-169-A

REPORT NO. H11-2056

ANALYST

C. J. L. F. F. F.

Sheet 52

Be	Bi	Cd	Co	Cr	Cu	La	Mo	Nb	Ni	D M W	Tag No.	12	Fe ⁵⁹ No.
1 2-7	8 9-14	15 16-21	22 23-28	29 30-35	36 37-42	43 44-49	50 51-56	57 58-63	64 65-70	71	72-77	78 80	11 11 11
L	N	N	70	300	150	L	L	15	70		11111	12	W-1
1.5	N	N	10	70	L	30	N	10	15		AT-548	12	DG-7
1.5	N	N	15	70	20	30	L	15	70		549	12	54
L	N	N	1701	20	1701	L	171	20	20		560	12	61
1.5	N	N	15	70	50	30	N	15	20		561	12	65
1.5	N	N	20	50	L	30	L	10	15		562	12	70
2	N	N	15	50	L	20	N	10	15		563	12	106
1.5	N	N	15	30	15	30	N	10	15		564	12	117
1.5	N	N	15	30	15	30	N	L	15		565	12	173B
1.5	N	N	15	50	L	30	N	L	15		566	12	180
N	N	N	15	50	15	30	N	L	15		567	12	208
1.5	N	N	L	N	L	L	N	L	5		568	12	253
1.5	N	N	L	15	10	30	N	10	15		569	12	366B
1.5	N	N	L	20	15	30	N	10	7		570	12	367
1.5	N	N	L	20	10	20	N	10	15		571	12	373
1.5	N	N	L	30	15	30	N	15	10		572	12	402
												12	
												12	
												12	
												12	
												12	
												12	
												12	
												12	
												12	
												12	
												12	

REMARKS:

ILM NO. C-169-A

EXPORT NO. HM-2056

Sheet #4

W	Y	Zn	Zr	Si%	Al%	Na%	K%	P%	Ce	D M V	Tag No.	14	Field No.
2-7	8 9-14	15 16-21	22 23-28	29 30-35	36 37-42	43 44-49	50 51-56	57 58-63	64 65-70	71	72-77	78 80	//////////
V	15	N	100								////	14	W-1
V	10	N	70								AJW-549	14	DG-7
V	15	N	70								549	14	54
V	30	L	150								560	14	61
V	20	N	70								561	14	65
V	15	N	70								562	14	70
V	10	300	50								563	14	106
V	15	N	70								564	14	117
V	15	N	70								565	14	173B
V	10	L	50								566	14	180
V	15	N	70								567	14	208
V	L	N	70								568	14	253
N	20	N	150								569	14	366B
V	15	N	300								570	14	367
N	15	N	70								571	14	373
N	30	N	500								572	14	402
												14	
												14	
												14	
												14	
												14	
												14	
												14	
												14	
												14	
												14	
												14	
												14	
												14	

REMARKS:

[illegible]

REMARKS: Fe, Mg, Ca, and Ti reported in%, all other elements reported in ppm. Results are reported in the series 1 0.7 0.5 0.3 0.2 0.15 0.1 etc.

Be	Bi	Cd	Co	Cr	Cu	La	Mo	Nb	Ni	D M W	Tag No.	12	Field No.
2-7	8-9-14	15 16-21	22 23-28	29 30-35	36 37-42	43 44-49	50 51-56	57 58-63	64 65-70	71	72-77	78 79	80
1	N	N	L	20	10	200	15	10	L		11111	12	G-1
			20	30	10	70	L	10	10		AJW-596	12	DG-236
			5	10	L	100		10	L		97	12	242
			10	20	5	50		10	15		98	12	275
			70	200	100	L		L	500		99	12	283
			20	300	10	100		L	70		600	12	318
2			L	L	L	50		20	L		01	12	317
1			L	L	L	L		10	L		02	12	320
1			L	L	10	50		20	L		03	12	DG-321
			L	L	L	50		L	L		04	12	344
			L	L	L	70		L	L		05	12	347
			L	L	L	50		L	L		06	12	386
			L	L	5	50		L	L		07	12	388
			L	L	L	L		L	L		08	12	389
			L	L	L	50		L	L		09	12	392
			L	L	L	50		L	L		10	12	395
			L	L	L	50		10	L		11	12	396
			L	L	L	50		10	L		12	12	397
			L	L	L	50		L	L		13	12	126
			L	L	L	L		L	L			12	20
												12	21
												12	22
												12	23
												12	24

G = Greater than 10%, or greater than value shown.
H = Interference
- = Not looked for.

NO. 41-
PORT NO. 41

REMARKS:

W	Y	Zn	Zr	Si%	Al%	Na%	K%	P%	Ce	D M K	Tag No.	14	Field No.
1 1 2-7	8 9-14	15 16-21	22 23-28	29 30-35	36 37-42	43 44-49	50 51-56	57 58-63	64 65-70	71	72-77 78	79-80	//////////
N	10	L	500								////	14	G-1
	30	1	150								AIW-596	14	DC-236
	30		200								97	14	(242
	20		200								98	14	275
	20		50								99	14	223
	15		200								600	14	318
	10		500								01	14	319
	L		100								02	14	320
	L		300								03	14	DC-221
	L		100								04	14	344
	10		70								05	14	347
	15		150								06	14	386
	10		150								07	14	388
	L		150								08	14	389
	10		200								09	14	392
	L		150								10	14	395
	L		150								11	14	396
	L		100								12	14	397
Y	L	Y	100								13	14	126
												14	
												14	
												14	
												14	
												14	

FILM NO. 4-1C

SEMI-QUANTITATIVE SPECTROGRAPHIC ANALYSIS - FIELD SERVICES SECTION

REPORT NO. HM-2057

6 - Step D.C. Arc

Requested by J. Hualtierre

Date 5-27-79

Sheet #1

Fe %	Mg %	Ca %	Ti %	Mn	Ag	As	Au	B	Ba	D M W	Tag No.	Field No.
1 2-7	8 9-14	15 16-21	22 23-28	29 30-35	36 37-42	43 44-49	50 51-56	57 58-63	64 65-70	71	72-77	78 80
2	.3	1	.2	200	N	N	N	L	1500		111111	G-1
3	.7	5	.2	500	N			L	1500		AJW-573	DC-28
3	.5	2	.2	1000	N			L	2000		74	DC-1
3	.2	2	.2	1000	N			L	2000		75	14
3	.1	.1	.07	200	N			L	5000		76	16
3	.7	3	.2	1000	N			L	2000		77	42
3	.5	2	.2	1500	N			L	2000		78	102
2	.1	.5	.1	700	N			L	1500		79	104
2	.07	.5	.1	700	N			L	500		80	107
15	5	7	.6	1500	N			30	200		81	116
1	.07	.2	.1	500	N			L	1500		82	118A
5	.1	7	.5	1000	N			L	1500		83	121
3	.7	5	.15	700	N			L	1500		84	123
7	1	7	1	2000	N			L	5000		85	132
2	.1	.1	.1	700	N			L	1500		86	157
15	3	7	.6	2000	N			20	150		87	173A
5	.07	1	.7	2000	N			L	3000		88	175
1.5	.1	.2	1	100	12-1			L	1500		89	186
1.5	.1	1	.1	1000	N			L	3000		90	190
7	1	7	.3	1000	N			L	1000		91	193
3	.3	.3	.3	1000	N			L	1000		92	199
3	.15	.15	.3	700	N			L	2000		93	220
1.5	.1	.2	.1	500	N			L	500		94	222
1.5	.2	2		100	N			L	1500		95	231A

FILM NO. 4-1C

REPORT NO. HM-2057

ANALYST E. F. Cooley

Sheet #2

Be	Bi	Cd	Co	Cr	Cu	La	Mo	Nb	Ni o.	D M W	Tag No.	12	Field No.
1 2-7	8 9-14	15 16-21	22 23-28	29 30-35	36 37-42	43 44-49	50 51-56	57 58-63	64 65-70	71	72-77	78 80	//////////
1	N	N	L	20	15	200	10	20	L		11111	12	C-1
L	L	L	L	10	L	L	L	10	L		72-77	12	DC-2B
L	L	L	L	L	5	100	L	10	L		74	12	DG-1
L	L	L	L	L	L	50	L	L	L		75	12	14
L	L	L	L	L	L	L	L	L	L		76	12	16
L	L	L	L	L	L	50	L	10	L		77	12	42
L	L	L	L	L	L	100	L	10	L		78	12	102
L	L	L	L	L	L	50	L	10	L		79	12	104
L	L	L	L	L	5	50	L	10	L		80	12	107
L	L	L	L	L	150	L	L	L	L		81	12	116
L	L	L	L	L	5	50	L	10	L		82	12	118A
L	L	L	L	L	L	100	L	10	L		83	12	121
L	L	L	L	L	L	L	L	10	L		84	12	123
L	L	L	10	L	L	150	L	10	L		85	12	132
L	L	L	L	L	L	100	L	10	L		86	12	157
L	L	L	L	L	L	L	L	10	L		87	12	173A
L	L	L	L	50	100	L	L	10	L		88	12	175
L	L	L	L	20	L	150	L	10	L		89	12	186
L	L	L	L	L	L	150	L	10	L		90	12	190
L	L	L	L	L	L	L	L	10	L		91	12	193
L	L	L	L	20	L	L	L	10	L		92	12	199
L	L	L	L	L	L	300	L	20	L		93	12	220
L	L	L	L	L	L	L	L	10	L		94	12	222
L	L	L	L	10	L	L	L	10	L		95	12	231A

REMARKS:

...than value shown.

N = Not detected at limit of detection, or at value shown.

L = Detected, but below limit of determination, or below value shown.

H = Interference

- = Not looked for.

PORT NO. HM-2057

* = Usual limits of determinations do not apply due to use of dilution technique.

Sheet #3

Pb	Pd	Pt	Sb	Sc	Sn	Sr	Te	U	V	D M W	Tag No.	13	Field No.
2-7	8 9-14	15 16-21	22 23-28	29 30-35	36 37-42	43 44-49	50 51-56	57 58-63	64 65-70	71	72-77	78 80	//////////
100			N	5	N	200			20		//////	13	G-1
20				5		500			50		ASW-573	13	DC-2B
50				5		1000			70		74	13	DG-1
20						1000			150		75	13	14
30						2000			150		76	13	16
30				5		1000			100		77	13	42
50				5		1000			100		78	13	102
30						500			50		79	13	104
100						200			50		80	13	107
15						200			1700		81	13	116
30				70		200			30		82	13	118A
30				5		1500			150		83	13	121
20						500			30		84	13	123
50				10		5000			1500		85	13	132
20						1000			150		86	13	157
20				50		200			500		87	13	173A
50				5		2000			150		88	13	175
100						1000			70		89	13	186
50						1500			100		90	13	190
30				5		1500			100		91	13	193
30						300			70		92	13	199
1200						1500			70		93	13	220
10						100			50		94	13	222
30						1000			70		95	13	231A

EMARKS

W	Y	Zn	Zr	Si%	Al%	Na%	K%	P%	Ce	D M K	Tag No.	14	Field No.
1 2-7	8 9-14	15 16-21	22 23-28	29 30-35	36 37-42	43 44-49	50 51-56	57 58-63	64 65-70	71	72-77	78 80	////////
1	10	L	500								////	14	G-1
2	10	1	200								AIW-573	14	DC-2B
3	20	1	200								74	14	DC-1
4	20	1	200								75	14	14
5	L	1	50								76	14	14
6	10	1	200								77	14	42
7	20	1	500								78	14	102
8	L	1	500								79	14	104
9	L	1	150								80	14	107
10	50	1	100								81	14	116
11	L	1	150								82	14	118A
12	10	1	200								83	14	121
13	L	1	300								84	14	123
14	20	1	200								85	14	132
15	L	1	200								86	14	157
16	50	1	100								87	14	173A
17	50	1	1000								88	14	175
18	L	1	200								89	14	186
19	L	1	200								90	14	196
20	10	1	200								91	14	193
21	10	1	200								92	14	199
22	L	1	200								93	14	220
23	L	1	300								94	14	222
24	L	1	200								95	14	231A

REMARKS:

PORT NO. H 11-2059

6 - Step D.C. Arc

Requested by _____

GUALTIERI

Date 5/21/69

Sheet #1

Fe %	Fe	Mg %	Ca %	Ti %	Mn	Ag	As	Au	B	Ba	D M W	Tag No.	11	Field No.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
2-7		8	15	22	23-28	29	30-35	36	37-42	43	44-49	50	51-56	57	58-63	64	65-70	71	72-77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	525	526	527	528	529	530	531	532	533	534	535	536	537	538	539	540	541	542	543	544	545	546	547	548	549	550	551	552	553	554	555	556

REMARKS: Fe, Mg, Ca, and Ti reported in%, all other elements reported in ppm. Results are reported in the

[illegible]

REMARKS:

Fe %		Mg %		Ca %		Ti %		Mn		Ag		As		Au		B		Ba		M W		Tag No.		Field No.	
1	2-7	8	9-14	15	16-21	22	23-28	29	30-35	36	37-42	43	44-49	50	51-56	57	58-63	64	65-70	71	72-77	78	79-80		
1	1.5	.5	.5	.7	.2	.2	.2	200	N	(.5)	N	(200)	N	(10)	N	(10)	N	(10)	1500	11	11111111	11	11	G-2	1
2	2	1.5	1.5	20	.02	.02	.02	700	L								100		50	11	837	11	11	DG-248A	2
3	.2	.5	.5	20	.01	.01	.01	1500	N								10	N	(20)	11	838	11	11	248B one sample	3
4	1.5	.3	.3	.2	.2	.2	.2	10	N								100		500	11	839	11	11	577-666	4
5	3	3	3	1.5	.2	.2	.2	300	N								70		200	11	840	11	11	521	5
6	2	3	3	1.5	.1	.1	.1	150	N								30		150	11	841	11	11	604	6
7	1.5	5	5	5	.07	.07	.07	300	N								15		150	11	842	11	11	649	7
8	2	5	5	5	.1	.1	.1	300	N								30		200	11	843	11	11	650	8
9	7	2	2	.7	.5	.5	.5	300	L								30		300	11	844	11	11	663A	9
10	5	3	3	1.5	.3	.3	.3	150	N								15		200	11	845	11	11	663B	10
11	3	3	3	2	.1	.1	.1	300	N								70		100	11	846	11	11	674	11
12	3	2	2	3	.2	.2	.2	500	L							N			300	11	847	11	11	704	12
13	3	2	2	2	.15	.15	.15	150	N							N			1000	11	848	11	11	706A	13
14	.3	10	10	10	.01	.01	.01	100	N							N			20	11	849	11	11	837	14
15	3	1.5	1.5	.2	.3	.3	.3	700	N								70		300	11	850	11	11	1087	15
16	1	.1	.1	.2	.15	.15	.15	10	N							N			100	11	851	11	11	482D	16
17	.15	.02	.02	L (.05)	.2	.2	.2	L (.10)	N							N			150	11	852	11	11	482G	17
18	5	.3	.3	N	.15	.15	.15	15	N								100		200	11	853	11	11	482I-1	18
19	1	.3	.3	N	.2	.2	.2	N	N								100		300	11	854	11	11	482I-2	19
20	1	1	1	3	.15	.15	.15	1000	N								10		200	11	855	11	11	785	20
21	2	.3	.3	.3	.2	.2	.2	150	N								10		1000	11	856	11	11	816	21
22																				11			11		22
23																				11			11		23
24																				11			11		24

REMARKS: Fe, Mg, Ca, and Ti reported in %, all other elements reported in ppm. Results are in the series 1, 0.7, 0.5, 0.3, 0.2, 0.15, 0.1, etc.

[illegible]

Pb	Pd	Pt	Sb	Sc	Sn	Sr	Te	U	V	D M W	Tag No.	13	Field No.
1 2-7	8 9-14	15 16-21	22 23-28	29 30-35	36 37-42	43 44-49	50 51-56	57 58-63	64 65-70	71	72-77	78 80	1111111111
30		N (100)		5	N (10)	500			30		111111	13	G-2
100				7		150			15		Amq 837	13	DG-248A 2
N (10)				N (5)		1000			N (10)		838	13	248B 3
15				7		300			70		839	13	one sample 517-666 4
20				10		L (100)			70		840	13	521 5
15				5		L			30		841	13	604 5
100				5		200			30		842	13	649 7
100				5		150			30		843	13	650 3
N				50		N			300		844	13	663 A 3
15				15		L			50		845	13	663 B 10
30				5		N			50		846	13	674 11
10				10					70		847	13	704 12
15				7		300			100		848	13	706 A 13
N				N		100					849	13	837 14
15				15		N			70		850	13	1097 15
N				N		N			30		851	13	482 D 16
L				N		N					852	13	482 G 17
30				7		N			100		853	13	482 I-1 18
30				10		300			70		854	13	482 I-2 19
N				5		N			70		855	13	785 20
15				7		300			30		856	13	816 21
												13	
												13	
												13	
												13	
												13	

20

W	Y	Zn	Zr	Si%	Al%	Na%	K%	P%	Ce	R M W	Tag No.	14	Field No.
2-7	8	15	22	29	36	43	50	57	64	71	72-77	78	79-80
N (50)	10	N (200)	200								11111111	14	6-2
	30		20								Am 837	14	D6-2484
	15		N (10)								838	14	248B
	15		100								839	14	one sample
	15		70								840	14	517-666
	L (10)		30								841	14	521
	10		30								842	14	604
	10		50								843	14	649
	15		50								844	14	650
	20		100								845	14	663 A
	10		30								846	14	663 B
	20		70								847	14	674
	15		70								848	14	708
	N		N								849	14	706 A
	20		100								850	14	837
	15		100								851	14	1097
			70								852	14	482-D
	N		70								853	14	432 G
	L		100								854	14	482 I-1
	10		100								855	14	482 I-2
	20		100								855	14	785
	20	V	150								856	14	816
												14	
												14	
												14	
												14	
												14	

[illegible]

REMARKS: Fe, Mg, Ca, and Ti reported in %, all other elements reported in ppm. Results are in the series 1, 0.7, 0.5, 0.3, 0.2, 0.15, 0.1, etc.

N = Not detected at limit of detection, or at value shown.
L = Detected, but below limit of determination, or

below value shown.

* = Usual limits of determinations do not apply due to use of dilution technique.

Sheet 43

23

W	Y	Zn	Zr	Si%	Al%	Na%	K%	P%	Ce	D M W	Tag No.	14	Field No.											
2-7	8	9-14	15	16-21	22	23-28	29	30-35	36	37-42	43	44-49	50	51-56	57	58-63	64	65-70	71	72-77	78	80	14	Field No.
N(50)	10	N(700)	200																	////////			14	6-2
	30		100																	200			14	26-679
	15		150																	581			14	714
	30		150																	282			14	740
	30		150																	125			14	805
	15		150																	224			14	834
	15		30	200																385			14	996C
	15		150																	976			14	997B-3
	10		70																	387			14	1052
	20		100																	833			14	1087A
	20																			839			14	1217
	50		100																	890			14	1272
	50		100																	891			14	1274
	20		150																	892			14	1287
	20		200																	893			14	1310A
	20		150																	894			14	1310B
	L (10)		70																	895			14	1313
																				896			14	537 C
																							14	
																							14	
																							14	
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																							14	

Fe %	Mg %	Ca %	Ti %	Mn	Ag	As	Au	B	Ba	M	W	Tag No.	U	Field No.								
1	2-7	15	16-21	22	23-28	29	30-35	36	37-42	43	44-49	50	51-56	57	58-63	64	65-70	71	72-77	78	79-80	Field No.
2	.5	.5	.2	200	N (.5)	N (200)	N (10)	N	(10)	1500	11	11111111	11	G-2								
10	1.5	1.5	.7	700	N				10	500	11	Amg 857	11	DG-1290								
2	7	5	.1	1000	N			N		300	11	858	11	106A								
1.5	1.5	2	.1	700	N			N		1500	11	859	11	106B								
3	1.5	.5	.2	500	N				10	700	11	860	11	1322								
1.5	.07	.1	.07	70	1.5			N		1500	11	861	11	186								
7	1.5	2	.5	700	N			N		300	11	862	11	331								
1.5	.5	.5	.15	200	N			N		1000	11	863	11	357A								
.7	.3	1.5	.03	300	L			N		700	11	864	11	319								
3	.7	1	.3	700	N			L		2000	11	865	11	477A								
7	1.5	2	.1	700	N				20	300	11	866	11	482A								
7	.1	.05	.7	50	N				30	100	11	867	11	482A								
5	1	1	.1	300	N				10	200	11	868	11	482C								
7	1.5	1.5	.7	700	N				10	200	11	869	11	482J								
1	.07	.05	.07	100	N				10	50	11	870	11	483A								
7	1.5	2	.5	700	N			N		150	11	871	11	487B								
1.5	.05	.05	.05	100	N				10	100	11	872	11	574								
1.5	1	1	.15	200	N			N		1000	11	873	11	615								
1.5	.07	L (.05)	.07	700	N				10	150	11	874	11	658								
7	.3	.1	.7	500	.5			L		1000	11	875	11	668B								
7	.15	.05	.7	500	N			L		200	11	876	11	668B								
3	5	5	.2	300	N				100	200	11	877	11	669								
1.5	.1	.1	.1	300	N			N		700	11	878	11	672A								
.3	.05	.1	.03	10	N			N		300	11	879	11	673B								

REMARKS: Fe, Mg, Ca, and Ti reported in %, all other elements reported in ppm. Results are in the series 1, 0.7, 0.5, 0.3, 0.2, 0.15, 0.1, etc.

Be	Bi	Cd	Co	Cr	Cu	La	Mo	Nb	Ni	D M W	Tag no.	Field No.											
1	2-7	8	9-14	15	16-21	22	23-28	29	30-35	36	37-42	43	44-49	50	51-56	57	58-63	64	65-70	71	72-77	78-80	79
	1.5	N	(10)	N	(20)		7	7	7	10	100	N	(5)		10				5		111111	12	6-2
N	(1)						50	20	20	150	20				N	(10)			50		855	12	DG-1290
	2						7	30	30	L (5)	N	(20)			10				30		858	12	106A
	1.5						7	20	20	30	50				10				15		859	12	106B
	3						7	L (5)	L (5)	7	100				50	L (5)			L (5)		860	12	1372
	1.5						5	N		15	70				10				5		861	12	186
N							50	10	10	30	N				N				30		862	12	331
	1						5	30	30	5	50				L				30		863	12	357A
	3					N	(5)	N		10	20				10				5		864	12	319
	2						10	L		10	70				10				7		865	12	477A
N							50	20	20	150	N				N				50		866	12	482A
L							7	20	20	500	N				N				30		867	12	482B
N							30	20	20	100	N				N				50		868	12	482C
L							30	20	20	100	N				N				50		869	12	482J
	1					N				5	30				20	L					870	12	483A
N							50	30	30	100	N				N				70		871	12	487B
	1									5	30				20				5		872	12	514
	1.5						15	20		10	50				N				30		873	12	615
	2									15	70					L					874	12	658
	1						50	20	20	70	N				N				30		875	12	668A
	1						30	10	10	30	N				N				20		876	12	668B
	1						7	30	30	20					L				30		877	12	669
	1						10			20	20				10				7		878	12	672A
	1									15	N				10				5		879	12	672B

Pb	Pd	Pt	Sb	Sc	Sn	Sr	Te	U	V	W	Tag No.	13	Field No.
1 2-7	8 9-14	15 16-21	22 23-28	29 30-35	36 37-42	43 44-49	50 51-56	57 58-63	64 65-70	71	72-77	78 80	11111111
30		N (100)		5	N (10)	500			30		111111	13	6-2
10				30	N	200				Am 857	857	13	DG-1290 2
N (10)				7	N	300			70		858	13	106A 3
20				7	N	1000			50		859	13	106B 4
L				5	10	500			20		860	13	1322 5
100				N	N	1000			50		861	13	186 6
N				30		L (100)			300		862	13	331 7
20				5		500			30		863	13	357A 8
20				N		200			20		864	13	319 9
20						1000			100		865	13	477A 10
L				30		200			300		866	13	482 11
L				30		N			300		867	13	482 12
10				30		150			200		868	13	482 C 13
L				30		150			150		869	13	482 J 14
20				N		N			10		870	13	483 A 15
L				30		200			200		871	13	4875 16
15				N		N			10		872	13	514 17
15				7		500			50		873	13	615 18
70				L		N			L		874	13	658 19
15				30		N			300		875	13	668 1 20
L				30		L			300		876	13	668 B 21
L				15		100			50		877	13	669 22
L				N		100			30		878	13	670 A 23
L				N		L			10		879	13	672B 24

(23)

W	Y	Zn	Zr	Si%	Al%	Na%	K%	P%	Ce	P/W	Tag No.	14	Field No.												
1	2-7	8	9-14	15	16-21	22	23-28	29	30-35	36	37-42	43	44-49	50	51-56	57	58-63	64	65-70	71	72-77	78	80	79	////////
N(50)	10	11	(200)				700														////////			14	Q-2
	50	11					150														857		14	DG 1290	
	(10)						150														858		14	106A	
	15	N					150														859		14	106B	
	20	N					200														860		14	1322	
	10	N					100														861		14	186	
	30	N					100														862		14	331	
	10	N					100														863		14	357A	
		N					150														864		14	319	
	15	N					100														865		14	477A	
	70	N					150														866		14	482A	
	30	N					100														867		14	482B	
	25	N					100														868		14	482C	
	30	N					100														869		14	482J	
		N					200														870		14	483A	
	30	N					100														871		14	487B	
		N					200														872		14	514	
	10	N					100														873		14	615	
		N					500														874		14	658	
	50	N					100														875		14	668A	
	20	N					100														876		14	668B	
N	20	N					70														877		14	699	
L(50)	10	N					70														878*		14	672A	
N		N					30														879		14	672B	

210-30 ppm W

1	2-7	8	9-14	15	16-21	22	23-28	29	30-35	36	37-42	43	44-49	50	51-56	57	58-63	64	(20) Ba	D M W	Tag No.	11	Field No.
1	2-7	8	9-14	15	16-21	22	23-28	29	30-35	36	37-42	43	44-49	50	51-56	57	58-63	64	65-70	71	72-77	78	79-80
2	2		.5		.5		.2		200	N		N		N		N		1500			11	11	6-2
3	1.5		.3		1.5		.1		300	N		N		N		N		1000			11	11	DE-132
4																							
5																							
6																							
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19																							
20																							
21																							
22																							
23																							
24																							

REMARKS: Fe, Mg, Ca, and Ti reported in %, all other elements reported in ppm. Results are in the series 1, 0.7, 0.5, 0.3, 0.2, 0.15, 0.1, etc. Lower limits of determination are in parenthesis.

[illegible]

NOTE: Some combinations of elements affect the results. Approximate values are given. In unusually favorable materials, concentrations somewhat lower than the values given may be detected. In unfavorable materials the given limits of determination may not be attained for some of the elements.

[illegible]

ANALYSIS

(.05) Fe %	(.02) Mg %	(.05) Ca %	(.002) Ti %	(10) Mn	(.5) Ag	(200) As	(10) Au	(10) B	(20) Ba	D M W	Tag No.	Field No.
1 2-7	8 9-14	15 16-21	22 23-28	29 30-35	36 37-42	43 44-49	50 51-56	57 58-63	64 65-70	71	72-77	78 80
2	.5	.5	.2	200	N	N	N	N	1500		1111111	1111111111
.07	L	L	N	20	.7				50		amt	G-2
.3	1	G (20)	.015	1000	L						064	DG-118 C
2	7	7	.005	700	N			10	L		065	457
1	1.5	15	.01	700	15				L		066	460
.7	.05	.1	.01	30	N			30	70		067	476
.5	L	L	.3	N					100		068	482 E
.3	.05	.05	.2	L					150		070	482 F
.5	1.5	5	.005	100	N			20	30		071	482 H
.3	1	7	.02	150	N			70	L		072	488
.3	.5	15	.01	500	N			70	L		073	500
.1	.1	5	.007	150	N			15	20		074	501
1.5	L	N	.03	30	N				100		075	517
1.5	.02	N	.2	70	N			L	70		076	517 B
10	.2	L	.03	70	1.5			70	100		077	517 C
.3	.5	20	.01	700	N				20		078	520 B
.1	.1	10	.007	200	N			50	20		079	537 D
.2	.2	15	.007	300	N				30		080	598
.05	5	10	.007	500	N				300		081	611 A
.05	.2	1	.007	20	N				30		082	611 B
.5	.1	3	.015	300	N				30		083	650 B
1.5	.3	.3	.015	500	.5				30		084	663 C
3	L	N	.3	300	L				30		085	ONE SAMPLE 615-666
2	.7	5	.1	700	N				300		086	672 C

REMARKS: Fe, Mg, Ca, and Ti reported in %, all other elements reported in ppm. Results are in the series 1, 0.7, 0.5, 0.3, 0.2, 0.15, 0.1, etc. Lower limits of determination are in parenthesis.

(1) Be	(10) Bi	(20) Cd	(5) Co	(10) Cr	(5) Cu	(20) La	(5) Mo	(10) Nb	(5) Ni	D M W	Tag no.	12	Field No.												
1	2-7	8	9-14	15	16-21	22	23-28	29	30-35	36	37-42	43	44-49	50	51-56	57	58-63	64	65-70	71	72-77	78	79	80	Field No.
	1.5	N		N		S		L			10		100	N			10	5			11111				G-2
	L		L	N		L		N			7	N			15			70			PMT				OG-118 C
	N		N	N		L		N					50	N				L			065				454
	N		N	N		L		N					100	N				5			066				460
	L		N					N			15		70	N				7			067				476
	N		N			N		N						N				5			068				482 E
	N		N			N		N			15			N				L			069				482 F
	N		N			N		N			10			N			15	L			070				482 H
	N		N			N		N						N				L			071				483 B
	N		N			N		N			10			N				5			072				488
	N		N			N		N						N				L			073				500
	N		N			N		N						N				L			074				501
	N		N			N		N			30			N		7		5			075				517
	N		N			N		L			20		30	N			10	10			076				517 B
	L		N				20		15		50			N				50			077				517 C
	N		N			N		N			5		20	N				N			078				520 B
	N		N			N		N			10			N				N			079				537 D
	N		N			N		N			10		20	N				L			080				598
	N		N			N		N					70	N				L			081				611 A
	N		N			N		N			5			N				L			082				611 B
	N		N			N		N			15			N				15			083				656 B
	N		N			N		N			15			N				15			084				656 C
	N		N			N		N			30			N		10	10	15			085				656 D
	N		N			N		N			30			N				5			086				672 C
1																									672 C
2																									672 C

FILM NO. 1-13 I G= Greater than 10%, or Greater

REPORT NO. H-276 H = Interference

- = Not look for.

N = Not detected at limit of detection, or at value shown.

L = Detected, but below limit of determination, or below value shown.

* = Usual limits of determinations do not apply due to use of dilution technique.

(10) Pb		Pd		Pt		(100) Sb		(5) Sc		(10) Sn		(100) Sr		Te		U		(10) V		W		Tag No.		13		Field No.	
1	2-7	8	9-14	15	16-21	22	23-28	29	30-35	36	37-42	43	44-49	50	51-56	57	58-63	64	66-70	71	72-77	78	79-80				
	20					N			S	N			500						30			//////	13		G-2	1	
	30							N			N		1000					L				AMT	13		DG-118C	2	
								L					100					L				065	13		454	3	
									S				500						10			066	13		460	4	
																		L				067	13		476	5	
								N				N						L				068	13		482E	6	
								N				N							30			069	13		482F	7	
								L				N							15			070	13		482H	8	
								N					100						10			071	13		483B	9	
								N				L							15			072	13		488	10	
	10							L					1000						10			073	13		500	11	
								N					300					L				074	13		501	12	
								N				N							70			075	13		512	13	
								N				N							20			076	13		512B	14	
								N				N							20			077	13		517C	15	
	30								S				700						10			078	13		520B	16	
								N					1500					L				079	13		537D	17	
								N					700					L				080	13		598	18	
								L					150						10			081	13		611A	19	
								N				N						L				082	13		611B	20	
								N				N						L				083	13		656B	21	
								L				N							10			084	13		663C	22	
								L				N							30			085	13		ONE SAMPLE 665-666	23	
	15							L					200						50			086	13		672C	24	

3-5-6 Pb

NOTE: Some combinations of elements affect the limits of determination. Approximate values are given. In unusually favorable materials, concentrations somewhat lower than the values given may be detected. In unfavorable materials the given limits of determination may not be attained for some of the elements.

	(50) W	(10) Y	(200) Zn	(10) Zr	Si%	Al%	Na%	K%	P%	Ce	Tag No.	Field No.
1	2-7	8	15	22	29	36	43	50	57	64	72-77	79-80
2	N	10	N	200							065	454
3	N	20	N								066	460
4	N	30	N	15							067	476
5	N	30	N	70							068	482E
6	N			150							069	482F
7	N										070	482H
8	N										071	483B
9	N										072	488
10	N	10									073	500
11	N	10									074	501
12	N	10									075	517
13	N	30		10							076	517B
14	N	10		70							077	517C
15	N	15									078	520B
16	N	20									079	537D
17	N										080	578
18	N	30									081	611A
19	N										082	611B
20	N										083	656B
21	N										084	656C
22	N										085	665-666
23	N			150							086	677C
24	N	30		70								

REMARKS: Fe, Mg, Ca, and Ti reported in %, all other elements reported in ppm. Results are in the series 1, 0.7, 0.5, 0.3, 0.2, 0.15, 0.1, etc. Lower limits of determination are in parenthesis.

REPORT NO. **W-2716**

Sheet #2

37	5-70/0 Cu	** 30/0 Cu
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Approximate values are given. In unusually favorable materials, concentrations somewhat lower than the values given may be detected. In unfavorable materials the given limits of determination may not be attained for some of the elements.

	(50) W	(10) Y	(200) Zn	(10) Zr	Si%	Al%	Na%	K%	P%	Ce	Tag No.	Field No.									
1	2-7	8	15	23-28	29	30-35	36	37-42	43	44-49	50	51-56	57	58-63	64	65-70	71	72-77	78	79-80	Field No.
2	N	10	N	200														14	14	14	G-2
3		N	N															14	14	14	DG-673NE
4		L	N	10														14	14	14	678
5		N	N															14	14	14	206A
6		20	N	20														14	14	14	793
7		G(200)	N	10														14	14	14	747
8		N	N															14	14	14	813
9	500	20	N	50														14	14	14	827
10	N	N	N	20														14	14	14	884
11		20	N															14	14	14	1870
12		N	N	30														14	14	14	1218
13		N	N															14	14	14	1273
14		15	N	15														14	14	14	1290
15		30	N	200														14	14	14	U-2
16	200	N	N															14	14	14	DG-831
17	50	15	L	30														14	14	14	832
18	200	10	N															14	14	14	834
19																		14	14	14	
20																		14	14	14	
21																		14	14	14	
22																		14	14	14	
23																		14	14	14	
24																		14	14	14	

	(.05) Fe %	(.02) Mg %	(.05) Ca %	(.002) Ti %	(10) Mn	(.5) Ag	(200) As	(10) Au	(10) B	(20) Ba	D M W	Tag No.	11	Field No.											
	1	2-7	8	9-14	15	16-21	22	23-28	29	30-35	36	37-42	43	44-49	50	51-56	57	58-63	64	65-70	71	72-77	78	79-80	
1	1	7	1.5	3	1	1000	N													500		1111111		BCR-1	1
2	2	2	.7	1.5	.3	1500	L													3000		B541		DG-36A	2
3	3	3	.7	2	.2	1500	N													1500		2442		70A	3
4	4	1.5	.3	.2	.3	30														1500		2443		142	4
5	5	10	1.5	2	1	1000														150		2444		174	5
6	6	1.5	.07	.5	.2	700														2000		2445		175	6
7	7	7	2	1.5	.5	1500														5000		2446		1326	7
8	8	3	1	1.5	.3	1500														1500		2447		270	8
9	9	3	.3	1.5	.3	1500														200		2448		427A	9
10	10	3	1	1.5	.3	1000														1000		2449		428	10
11	11	2	.7	1	.3	200														1500		2450		444	11
12	12	1.5	.2	.07	.1	700														5000		2451		480	12
13	13	3	.3	.15	.2	300														300		2452		517A	13
14	14	1.5	.02	.2	.07	200														100		2453		508	14
15	15	1.5	.3	1.5	.1	700														2000		2454		509	15
16	16	2	.3	1.5	.2	1000														1000		2455		514	16
17	17	2	1	1.5	.2	300														2000		2456		588	17
18	18																								18
19	19																								19
20	20																								20
21	21																								21
22	22																								22
23	23																								23
24	24	1		1	1																	REF-5A		17	17

REMARKS: Fe, Mg, Ca, and Ti reported in %, all other elements reported in ppm. Results are in the series 1, 0.7, 0.5, 0.3, 0.2, 0.15, 0.1, etc. Lower limits of determination are in parenthesis.

FILM NO. C-176-F

REPORT NO. H44-3963

ANALYST C. FORD

Sheet #2

	(1) Be	(10) Bi	(20) Cd	(5) Co	(10) Cr	(5) Cu	(20) La	(5) Mo	(20) Nb	(5) Ni	D M W	Tag no.	12	Field No.
	1 2-7	8 9-14	15 16-21	22 23-28	29 30-35	36 37-42	43 44-49	50 51-56	57 58-63	64 65-70	71	72-77	78 79-80	
1	1	N	N	30	L	15	L	N	N	7		1111111	12	BCR-1
2	2			5	N	30	30		L	L		B541	12	DG-36A
3	1			5	N	50	30		N	L		242	12	70A
4	1.5				N	7	20		L	L		243	12	142
5	L			50		150	N		N	70		244	12	174
6	1			L	N	5	30		L	L		245	12	175
7	L			20		150	20		N	50		246	12	1326
8	1			7	L	7	20		N	15		247	12	270
9	1.5			5	L	5	L		N	5		248	12	427A
10	1			7	L	10	20		N	7		249	12	428
11	1.5			5		7	20		N	20		250	12	444
12	1			N	L	7	30		L	L		251	12	480
13	1.5			5	L	7	L		L	L		252	12	507A
14	1.5			N	L	7	30			N		253	12	508
15	1			N	L	7			N			254	12	509
16	1.5			N	L	5	50			L		255	12	524
17	1.5			7		7	20		L	20		256	12	588
18													12	
19													12	
20													12	
21													12	
22													12	
23													12	
24	1	N	N	L		15	100	N		L		REF-5A	12	17

FILM NO. C-176-1 G= Greater than 10%, or Greater than value shown.

REPORT NO. H 111-3963 H = Interference
= Not look for.

N = Not detected at limit of detection, or at value shown.
L = Detected, but below limit of determination, or below value shown.

* = Usual limits of determinations do not apply due to use of dilution technique.

Sheet #3

OI dilution technique																											
(10) Pb		Pd		Pt		(100) Sb		(5) Sc		(10) Sn		(100) Sr		Te		U		(10) V		D M W		Tag No.		13		Field No.	
1	2-7	8	9-14	15	16-21	22	23-28	29	30-35	36	37-42	43	44-49	50	51-56	57	58-63	64	65-70	71	72-77	78	79-80	13	Field No.		
1	10					N			30	N			200						300		1111111			13	BCR-1		
2	20								5				200						150		354			13	DG-36A		
3	10								5				300						100		242			13	70A		
4	15							L					300						50		243			13	142		
5									30				150						500		244			13	174		
6	10							L					100						50		245			13	175		
7									15				300						150		246			13	1326		
8	15								7				500						70		247			13	270		
9	10								5				150						70		248			13	427A		
10	10								7				500						70		249			13	428		
11	30							L					300						30		250			13	444		
12	100							N					700						50		251			13	480		
13									5				200						70		252			13	507A		
14	15							N				L							15		253			13	508		
15	20							N					1000						20		254			13	509		
16	15							L		V			300						50		255			13	564		
17	20								5	N			700						30		256			13	588		
18																								13			
19																								13			
20																								13			
21																								13			
22																								13			
23																								13			
24										N									100		257			13	17		

Approximate values are given. In unusually favorable materials, concentrations somewhat lower than the values given may be detected. In unfavorable materials the given limits of determination may not be attained for some of the elements.

(50)		(10)		(200)		(10)		Zr		Si%		Al%		Na%		K%		P%		Ce		R M W	Tag No.		14	Field No.
W		Y		Zn		Zr																				
1	2-7	8	9-14	15	16-21	22	23-28	29	30-35	36	37-42	43	44-49	50	51-56	57	58-63	64	65-70	71			72-77	78	79-	
1	N		30	L			150																1111111	14	BCR-1	1
2			20	N			150																BCFV	14	OG-36A	2
3			10	N			70																242	14	70A	3
4			10	N			150																243	14	142	4
5			30	L			100																244	14	174	5
6			15	N			150																245	14	175	6
7			10	L			100																246	14	1326	7
8			10	L			100																247	14	270	8
9			15	L			100																248	14	427A	9
0			15	N			100																249	14	425	10
11		L		N			100																250	14	444	11
12		N		N			70																251	14	430	12
13			10	N			100																252	14	577A	13
14		L		L			700																253	14	578	14
15		L		N			100																254	14	579	15
16			15	N			150																255	14	574	16
17	N			N			150																256	14	578	17
18																								14		18
19																								14		19
20																								14		20
21																								14		21
22																								14		22
23																								14		23
24			30	L			700																	14		24
25																								14		25
26																								14		26
27																								14		27
28																								14		28
29																								14		29
30																								14		30
31																								14		31
32																								14		32
33																								14		33
34																								14		34
35																								14		35
36																								14		36
37																								14		37
38																								14		38
39																								14		39
40																								14		40
41																								14		41
42																								14		42
43																								14		43
44														</												

Ex. R.1 Date 9/20/73 Sheet 41

ag No.	11	Field No.
	79-	

2-77	78	80	////
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11111	BCR7	1
EX	DC-154	2

31	11	PG 130	2
158	11	158	3

259	11	438	4
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5	11	260	774
5	11	260	774

261	11	105	0
262	11	713	7

11	729A	8
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264	11	758	9
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265	11	76.0	10
271	11	76.5	10

11	173	11
11	805	11

268	11	824	13
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269	11	8.59	14
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270	11	1320	19
971		14877	19

272	11	1129	17
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18	11	18
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11	19
----	----

20	11	
20	11	

[illegible]

2	11	107
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REF-5A	11	183	2
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the

parenthesis.

FILM NO. 6-177-F

REPORT NO. HM-3963

ANALYST

C. Fern

Sheet #2

(1) Be	(10) Bi	(20) Cd	(5) Co	(10) Cr	(5) Cu	(20) La	(5) Mo	(20) Nb	(5) Ni	D M W	Tag no.	12	Field No.												
1	2-7	8	9-14	15	16-21	22	23-28	29	30-35	36	37-42	43	44-49	50	51-56	57	58-63	64	65-70	71	72-77	78	79-80	Field No.	
L	N	N					30	L			30	L		N			N		10		11111111	12	BCR7	1	
	1.5						5		10		20		30				L		15		BFV	12	PG-150	2	
	7							L			5		50				30		10		258	12	658	3	
	1							L	50		15		30				11		15		259	12	438	4	
	1.5							L			20		20				11	L			260	12	694	5	
	1.5						10	L			20		20				11		7		261	12	705	6	
L							5	L			10		20				L				262	12	713	7	
	1.5						10	L			10		30				L				263	12	729A	8	
L							100		50		500	N					11		70		264	12	758	9	
	1						10		10		10		20				L		5		265	12	760	10	
	1						15		50		50	N					11		30		266	12	792	11	
L							20		70		100	N					L		50		267	12	805	12	
	1						20		10		20		20				11		10		268	12	824	13	
	1.5						15	L			70		30	N			11		7		269	12	859	14	
	3							L			15		70		20			70	5		270	12	1320	15	
	1.5							L			20		70	N			L		L		271	12	1087B	16	
	1	N					30		20		70	N		N			L		20		272	12	1129	17	
																						12		18	
																						12		19	
																						12		20	
																						12		21	
																						12		22	
																						12		23	
	30	N				L		L			5	L		N			N		10		REF-5A	12	183	24	

FILM NO. 6-177-1 G= Greater than 10%, or Greater than value shown.

REPORT NO. HM-3963 H = Interference - = Not look for.

N = Not detected at limit of detection, or at value shown.
L = Detected, but below limit of determination, or below value shown.

* = Usual limits of determinations do not apply due to use of dilution technique.

(10) Pb		Pd		Pt		(100) Sb		(5) Sc		(10) Sn		(100) Sr		Te		U		(10) V		D M W		Tag No.		13		Field No.	
1	2-7	8	9-14	15	16-21	22	23-28	29	30-35	36	37-42	43	44-49	50	51-56	57	58-63	64	65-70	71		72-77	78	79-80			
1	10					N			30	N			200						300			1111111		13		BCR7	1
2	20								5				500						50			854		13		PG-150	2
3	100							N				N							10			258		13		658	3
4	20							L				L							30			259		13		438	4
5	15							N					700						30			260		13		694	5
6	10								10				100						100			261		13		705	6
7	20								5				300						100			262		13		713	7
8	15								7				300						100			263		13		729A	8
9	L								70				200						500			264		13		758	9
10	10								7				500						100			265		13		760	1
11	L								15			1							100			266		13		792	1
12	L								50				150						300			267		13		805	1
13	10								15				700						150			268		13		824	1
14	15								15				700						200			269		13		859	1
15	20							N					300						20			270		13		1320	1
16	70							N					700						100			271		13		1087B	1
17	10								30				200						300			272		13		1129	1
18																								13			1
19																								13			1
20																								13			2
21																								13			2
22																								13			2
23																								13			2
24													150						30			REF-5A		13		180	2

Some combinations of elements direct the formation of unusually favorable materials. Approximate values are given. In unusually favorable materials, concentrations somewhat lower than the values given may be detected. In unfavorable materials the given limits of determination may not be attained for some of the elements.

(50)		(10)		(200)		(10)		Zr	Si%	Al%	Na%	K%		P%	Ce	Tag No.	Field No.	
W		Y		Zn								51-56	57	58-63	64	65-70		
1	2-7	8	9-14	15	16-21	22	23-28	29	30-35	36	37-42	43	44-49	50			79-	
1	N		30	L			150										72-77	78
2		L		N			150										80	
3		N		L			700											
4		L		N			150											
5			10	N			100											
6			15	L			150											
7			20	L			150											
8			20	L			150											
9			70		200		150											
10			20	L			150											
11			15	N			200											
12			50		300		200											
13			20	L			100											
14			20	L			150											
15			30	N			500											
16	N	L		N			200											
17	N		50		200		150											
18																		
19																		
20																		
21																		
22																		
23																		
24			15		300		30											
25																		

REPORT NO. 411-3963

ANALYST C. FORD

Sheet #2

NN = Not detected at limit of detection, or at value shown.
L = Detected, but below limit of determination, or below value shown.

REPORT NO. *Hm-3963*

* = Usual limits of determinations do not apply due to use of dilution technique.

[illegible]

[illegible]

REMARKS: Fe, Mg, Ca, and Ti reported in %, all other elements reported in ppm. Results are in the series 1, 0.7, 0.5, 0.3, 0.2, 0.15, 0.1, etc. Lower limits of determination are in parenthesis.

FILM NO. 6-180-F

REPORT NO. H 14-3964

ANALYST
C. F. X. N.

Sheet #2

NN = Not detected at limit of detection, or at value shown.
 L = Detected, but below limit of determination, or
 below value shown.

* = Usual limits of determinations do not apply due to use of dilution technique, sheet #3

1

REPORT NO. *H44-3964*

[illegible]

REMARKS: Fe, Mg, Ca, and Ti reported in %, all other elements reported in ppm. Results are in the series 1, 0.7, 0.5, 0.3, 0.2, 0.15, 0.1, etc. Lower limits of determination are in parenthesis.

N = Not detected at limit of detection, or at value shown.
L = Detected, but below limit of determination, or below value shown.

* = Usual limits of determinations do not apply due to use of dilution technique.

[illegible]

Some combinations of elements meet the requirements of the problem. In unusually favorable materials, approximate values are given. In unfavorable materials the given limits of concentrations somewhat lower than the values given may be detected. In unfavorable materials the given limits of determination may not be attained for some of the elements.

REPORT NO. *H 111-3964*

6-18-5

REPORT NO.

ANALYST C. F. F. R. N.

Sheet #2

[illegible]

N = Not detected at limit of detection, or at value shown.
L = Detected, but below limit of determination, or below value shown.

REPORT NO. *44-3964*

* = Usual limits of determinations do not apply due to use of dilution technique.

[illegible]

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Approximate values are given. In unusually favorable materials, concentrations somewhat lower than the values given may be detected. In unfavorable materials the given limits of determination may not be attained for some of the elements.

[illegible]

Approximate values are given. In unusually favorable materials, concentrations somewhat lower than the values given may be detected. In unfavorable materials the given limits of determination may not be attained for some of the elements.

[illegible]

REMARKS: Fe, Mg, Ca, and Ti reported in %, all other elements reported in ppm. Results are in the series 1, 0.7, 0.5, 0.3, 0.2, 0.15, 0.1, etc. Lower limits of determination are in parenthesis.

(1) Be	(10) Bi	(20) Cd	(5) Co	(10) Cr	(5) Cu	(20) La	(5) Mo	(20) Nb	(5) Ni	D M W	Tag no.	12	Field No.
1 2-7	8 9-14	15 16-21	22 23-28	29 30-35	36 37-42	43 44-49	50 51-56	57 58-63	64 65-70	71	72-77	78 80	1111111111
✓	✓	N	30 L	30 L	15	L	N	N	10		11111111	12	BCR-1 1
✓	✓	✓	✓	20	5	20	✓	✓	10		1254	12	DS-40A 2
✓	✓	✓	✓	20	7	L	✓	✓	15		353	12	✓ 3
✓	✓	✓	✓	20	7	L	✓	✓	15		353	12	✓ 4
✓	✓	✓	✓	50	30	50	✓	✓	50		355	12	✓ 5
✓	✓	✓	✓	✓	5	L	✓	✓	L		356	12	✓ 6
✓	✓	✓	✓	✓	7	100	✓	✓	L		357	12	✓ 7
✓	✓	✓	✓	30	7	100	✓	✓	10		358	12	✓ 8
✓	✓	✓	✓	✓	7	20	✓	✓	20		359	12	✓ 9
✓	✓	✓	✓	20	7	L	✓	✓	5		360	12	✓ 10
✓	✓	✓	✓	15	10	20	✓	✓	10		361	12	✓ 11
✓	✓	✓	✓	30	20	20	✓	✓	30		363	12	✓ 12
✓	✓	✓	✓	10	5	100	✓	✓	5		364	12	✓ 13
✓	✓	✓	✓	20	15	20	✓	✓	15		365	12	✓ 14
✓	✓	✓	✓	✓	7	✓	✓	✓	L		366	12	✓ 15
✓	✓	✓	✓	✓	5	20	✓	✓	L		367	12	✓ 16
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	12	✓ 17
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	12	✓ 18
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	12	✓ 19
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	12	✓ 20
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	12	✓ 21
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	12	✓ 22
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	12	✓ 23
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	12	✓ 24
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	12	✓ 25
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	12	✓ 26
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	12	✓ 27
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	12	✓ 28
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	12	✓ 29
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	12	✓ 30
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	12	✓ 31
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	12	✓ 32
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	12	✓ 33
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	12	✓ 34
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	12	✓ 35
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	12	✓ 36
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	12	✓ 37
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	12	✓ 38
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	12	✓ 39
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	12	✓ 40
✓	✓	✓											

FILM NO. 6-188-F G= Greater than 10%, or Greater than value shown.

REPORT NO. H47-3765-H = Interference - = Not look for.

N = Not detected at limit of detection, or at value shown.
L = Detected, but below limit of determination, or below value shown.

* = Usual limits of determinations do not apply due to use of dilution technique.

	(10) Pb	Pd	Pt	(100) Sb	(5) Sc	(10) Sn	(100) Sr	Te	U	(10) V	D M W	Tag No.	13	Field No.
	1 2-7	8 9-14	15 16-21	22 23-28	29 30-35	36 37-42	43 44-49	50 51-56	57 58-63	64 65-70	71	72-77	78 80	79-1347
1	10			N	30 N	36 N	200			300		1111111	13	13CR-1
2	15				5		2000			20		127-4	13	13CR-1
3	10				5		150			30		353	13	13CR-1
4	15				7		150			30		354	13	13CR-1
5	100				10					100		355	13	13CR-1
6	N				7		N			10		356	13	13CR-1
7	N				5		N			50		357	13	13CR-1
8	15				15		150			20		358	13	13CR-1
9	N				N		N			30		359	13	13CR-1
10	10				N		N			10		360	13	13CR-1
11	10				5		N			30		361	13	13CR-1
12	20				3		N			100		362	13	13CR-1
13	10				7		N			50		363	13	13CR-1
14	10				5		N			10		364	13	13CR-1
15	10				10		100			50		365	13	13CR-1
16	10				10		500			15		366	13	13CR-1
17	20				10		300			15		367	13	13CR-1
18													13	13CR-1
19													13	13CR-1
20													13	13CR-1
21													13	13CR-1
22													13	13CR-1
23													13	13CR-1
24													13	13CR-1

ATTENTION TO INFORMATION

Approximate values are given. In unusually favorable materials, concentrations somewhat lower than the values given may be detected. In unfavorable materials the given limits of determination may not be attained for some of the elements.

[illegible]

1-621-7

REPORT NO. 4-1-3965

ANALYST C. Ford

Sheet #2

(1) Be	(10) Bi	(20) Cd	(5) Co	(10) Cr	(5) Cu	(20) La	(5) Mo	(20) Nb	(5) Ni	D M W	Tag no.	12	Field No.											
1	2-7	8	9-14	15	16-21	22	23-28	29	30-35	36	37-42	43	44-49	50	51-56	57	58-63	64	65-70	71	72-77	78	79-80	Field No.
4	5	N	N	N	N	N	30	L	L	15	L	L	150	N	N	N	N	N	10		11111111	12	12	1111111111
N	2	N	N	N	N	N	5	L	L	10	L	L	50	N	N	N	N	N	5		135V	12	12	1111111111
N	2	N	N	N	N	N	10	L	L	20	L	L	100	N	N	N	N	N	30		369	12	12	1111111111
N	2	N	N	N	N	N	10	L	L	20	L	L	30	N	N	N	N	N	5		370	12	12	1111111111
1	1	N	N	N	N	N	10	L	L	10	L	L	20	N	N	N	N	N	30		371	12	12	1111111111
N	2	N	N	N	N	N	10	L	L	10	L	L	20	N	N	N	N	N	20		372	12	12	1111111111
N	2	N	N	N	N	N	7	L	L	5	L	L	20	N	N	N	N	N	15		373	12	12	1111111111
2	2	N	N	N	N	N	7	L	L	10	L	L	20	N	N	N	N	N	20		374	12	12	1111111111
1.5	1.5	N	N	N	N	N	15	L	L	30	L	L	20	N	N	N	N	N	30		375	12	12	1111111111
1.5	1.5	N	N	N	N	N	5	L	L	10	L	L	150	N	N	N	N	N	15		376	12	12	1111111111
1	1	N	N	N	N	N	5	L	L	5	L	L	20	N	N	N	N	N	15		377	12	12	1111111111
1	1	N	N	N	N	N	5	L	L	10	L	L	20	N	N	N	N	N	15		378	12	12	1111111111
1.5	1.5	N	N	N	N	N	50	L	L	150	L	L	20	N	N	N	N	N	20		379	12	12	1111111111
1.5	1.5	N	N	N	N	N	10	L	L	5	L	L	20	N	N	N	N	N	50		380	12	12	1111111111
1.5	1.5	N	N	N	N	N	10	L	L	20	L	L	30	N	N	N	N	N	15		381	12	12	1111111111
1.5	1.5	N	N	N	N	N	10	L	L	5	L	L	20	N	N	N	N	N	20		382	12	12	1111111111
1.5	1.5	N	N	N	N	N	10	L	L	20	L	L	30	N	N	N	N	N	50		383	12	12	1111111111

FILM NO. C-187-7
G = Greater than 10%, or Greater than value shown.

REPORT NO. 1104-3865
H = Interference
- = Not look for.

N = Not detected at limit of detection, or at value shown.
L = Detected, but below limit of determination, or below value shown.
* = Usual limits of determinations do not apply due to use of dilution technique.

Sheet #3

	(10) Pb	Pd	Pt	(100) Sb	(5) Sc	(10) Sn	(100) Sr	Te	U	(10) V	D M W	Tag No.	13	Field No.									
1	2-7	8	15	16-21	22	23-28	29	30-35	36	37-42	43	44-49	50	51-56	57	58-63	64	65-70	71	72-77	78	79-80	
1	10							30	N									300		1111111	13	1435	
2	30							5	N									10		368	13	1435	
3									N									16		369	13	1448	
4	10							10	N									100		370	13	1457A	
5	30							7	N									50		371	13	1485	
6	30							10	N									30		372	13	1487	
7								15	N									10		373	13	1487	
8									N									30		374	13	1487A	
9	20							7	N									30		375	13	1487	
10	10							5	N									30		376	13	1501	
11	15							15	N									50		377	13	1515	
12	15								N									70		378	13	1534	
13	100								N									10		379	13	1534A	
14								7	N									30		380	13	1535B	
15	20							50	N									700		381	13	1553	
16								15	N									100		382	13	1558A	
17	20							10	N									100		383	13	1557A	
18																						13	
19																						13	
20																						13	
21																						13	
22																						13	
23																						13	
24																						13	

Approximate values are given. In unusually favorable materials, concentrations somewhat lower than the values given may be detected. In unfavorable materials the given limits of determination may not be attained for some of the elements.

(50) W	(10) Y	(200) Zn	(10) Zr	Si%	Al%	Na%	K%	P%	Ce	Tag No.	14	Field No.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
1	2-7	8	9-14	15	16-21	22	23-28	29	30-35	36	37-42	43	44-49	50	51-56	57	58-63	64	65-70	71	72-77	78	79-80	Field No.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
N	30	200	150	150	500	100	20	150	70	N	50	50	70	200	N	150	150	50	50	70	200	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14

REMARKS: Fe, Mg, Ca, and Ti reported in %, all other elements reported in ppm. Results are in the series 1, 0.7, 0.5, 0.3, 0.2, 0.15, 0.1, etc. Lower limits of determination are in parenthesis.

Fe, Mg, Ca, and Ti reported in %, all other elements reported in ppm. Results are in the series 1, 0.7, 0.5, 0.3, 0.2, 0.15, 0.1, etc. Lower limits of determination are in parenthesis.

	(1) Be	(10) Bi	(20) Cd	(5) Co	(10) Cr	(5) Cu	(20) La	(5) Mo	(20) Nb	(5) Ni	D M W	Tag no.	12	Field No.
1	2-7	8-9-14	15	22	30-35	36	43	50	57	64	71	72-77	78-80	79-80
1	L	N	N	30	L	15	L	N	N	10		11111111	12	BCR-1
2	L			L	15	5	70			L		BFV 384	12	DG-1537
3	1.5			5	20	10	20			30		385	12	1571
4	1.5			L	15	5	L			15		386	12	1577
5	L			N	20	5	N			L		387	12	1579
6	L			N		5	N			7		388	12	1579A
7	L			N	15	L	N			7		389	12	1581
8	2			7	50	7	30			30		390	12	1617
9	1			50	15	50	11			30		391	12	1622B
10	N			1	10	L	N			L		392	12	1639
11	2			5	20	20	20			20		393	12	1656
12	L			5		15	L			5		394	12	1659
13	L			N	L	L	N			L		395	12	1668
14	1			N	L	5	N			L		396	12	1706
15	N			N	L	L	N			5		397	12	1726
16	1.5			10	15	150	30			15		398	12	1745
17	L	N	N	N	L	L	N	N	N	L		399	12	1748
18													12	
19													12	
20													12	
21													12	
22													12	
23													12	
24	1.5	N	L	L		200	1	20	N	L		REF-15	12	60

FILM NO. *C-1-90-1* G= Greater than 10%, or Greater than value shown.

REPORT NO. *H-4-3965* H = Interference - = Not look for.

N = Not detected at limit of detection, or at value shown.
L = Detected, but below limit of determination, or below value shown.

* = Usual limits of determinations do not apply due to use of dilution technique.

OF dilution technique.																									
	(10) Pb	Pd	Pt	(100) Sb	(5) Sc	(10) Sn	(100) Sr	Te	U	(10) V	D M W	Tag No.	13	Field No.											
1	2-7	8	9-14	15	16-21	22	23-28	29	30-35	36	37-42	43	44-49	50	51-56	57	58-63	64	65-70	71	72-77	78	79-80	Field No.	
1	10			N	30	N			300				200						300		111111	13	13	BCR-1	
2					5				300				300						10		384	13	13	DG-1567	
3					7							L						30		385	13	13	1571		
4	10				5							L						30		386	13	13	1577		
5	15				5								200					15		387	13	13	1579		
6								N					200					10		388	13	13	1579A		
7								L					500					15		389	13	13	1581		
8	30				15						N							100		390	13	13	1617		
9					30						N							500		391	13	13	1622B		
10	15							N					300					10		392	13	13	1639		
11	15				10						L							70		393	13	13	1656		
12													500					10		394	13	13	1659		
13													300					L		395	13	13	1668		
14													200					L		396	13	13	1706		
15													500					15		397	13	13	1726		
16					15								200					15		398	13	13	1745		
17								N		N			200					L		399	13	13	1748		
18																						13	13		
19																						13	13		
20																						13	13		
21																						13	13		
22																						13	13		
23																						13	13		
24	1000						150	1		N		N						15			REF-13	13	13	60	

FILM NO. 6-190-F

REPORT NO. HM-3965

Sheet #4

Approximate values are given. In unusually favorable materials, concentrations somewhat lower than the values given may be detected. In unfavorable materials the given limits of determination may not be attained for some of the elements.

(50) W		(10) Y		(200) Zn		(10) Zr		Si%		Al%		Na%		K%		P%		Ce		D M W		Tag No.		Field No.	
1	2-7	8	9-14	15	16-21	22	23-28	29	30-35	36	37-42	43	44-49	50	51-56	57	58-63	64	65-70	71	72-77	78	79-	14	Field No.
1	N		30	L			150														1111111		14	BGR-1	
2			50	N			15														BGV		14	DG-1567	
3			15	N			70														385		14	1571	
4			10	L			30														386		14	1577	
5			15	N			15														387		14	1579	
6			15	N			10														388		14	1579A	
7			10	L			15														389		14	1581	
8			15	L			70														390		14	1617	
9		N	15	N			150														391		14	1622B	
10				L			10														392		14	1639	
11			15	N			70														393		14	1656	
12			15	N			20														394		14	1659	
13		N		L			10														395		14	1668	
14			10	N			L														396		14	1706	
15		L		N			L														397		14	1726	
16			70	N			15														398		14	1745	
17	N	L		L			L														399		14	1748	
18																							14		
19																							14		
20																							14		
21																							14		
22																							14		
23																							14		
24			15		3000		70																14	60	

FILM NO. 6-191-F

REPORT NO. 1744-3965

ANALYST

P. FARN

Sheet #2

(1) Be	(10) Bi	(20) Cd	(5) Co	(10) Cr	(5) Cu	(20) La	(5) Mo	(20) Nb	(5) Ni	D M W	Tag no.	12	Field No.											
1	2-7	8	9-14	15	16-21	22	23-28	29	30-35	36	37-42	43	44-49	50	51-56	57	58-63	64	65-70	71	72-77	78	79-80	Field No.
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10	1.5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14	2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15	1.5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

FILM NO. C-191-F
 REPORT NO. 1414-3965
 NOTE: Some combinations of elements affect the limits of determination. Approximate values are given. In unusually favorable materials, concentrations somewhat lower than the values given may be detected. In unfavorable materials the given limits of determination may not be attained for some of the elements.

(50) W		(10) Y		(200) Zn		(10) Zr		Si%		Al%		Na%		K%		P%		Ce		Tag No.		Field No.	
1	2-7	8	9-14	15	16-21	22	23-28	29	30-35	36	37-42	43	44-49	50	51-56	57	58-63	64	65-70	71	72-77	78	79-80
N			30	L			150														1111111	14	BCR-1
			10	N			50														1271	14	26-1759
			20	L			150														101	14	1782
			30	L			150														102	14	1793
			10	N			100														103	14	1793
		L		N			100														104	14	1878
			20	L			50														405	14	1963
			15	N			70														406	14	1909
			20	N			700														407	14	1918
			30	N			200														408	14	1922
		L		N			300														409	14	1935
			20	L			70														410	14	1997
		L		N		N															411	14	2002
			15	L			10														412	14	2002A
	300		10	L			100														413	14	2004
			15	N			15														414	14	2021
		L		N		L															415	14	2028
																						14	
																						14	
																						14	
																						14	
																						14	
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																						14	

Fe %		Mg %		Ca %		Ti %		Mn		Ag		As		Au		B		Ba		D M W		Tag No.		Field No.	
(.05)	2-7	(.02)	8	(.05)	15	(.002)	22	(10)	29	(.5)	36	(200)	43	(10)	50	(10)	57	(20)	64		71	72-77	78	79-80	Field No.
1	2-7		8		15		22	30-35	29		36		43		50		57	65-70	64		71	72-77	78	79-80	
	7	1.5		3		1		500		N		N		N		L		50				1111111		BR-1	1
	3	3		5		.15		700								L		20				BFV		DG-20538	2
	.05	.1		.3		.2		20								N		70				417		2061	3
	1	1.5		6.20		.015		1000								L		70				418		2015	4
	3	1		1.5		.3		300								100		500				419		2115	5
	3	3		5		.3		1500								50		150				420		2116	6
	3	5		1.5		.2		500								73		150				421		2117	7
	3	5		5		.2		1000								70		150				422		2120	8
	.5	.7		20		.015		500								L		L				423		2121	9
	2	3		5		.12		1000								100		200				424		2123	10
	3	5		7		.15		1500								100		500				425		2125	11
	2	1.5		3		.3		5000								15		2000				426		1687	12
	3	5		1.5		.3		500								100		200				427		2130	13
	2	7		7		.1		1500								50		200				428		2146	14
	3	5		2		.2		500								150		100				429		2149	15
	3	5		3		.3		700								150		150				430		2150	16
	3	7		7		.3		700								150		300				431		2152	17
																									18
																									19
																									20
																									21
																									22
																									23
	1.5	1.5		1.5		.1		500		2		N		N		100		1000				REF-14		3	24

REMARKS: Fe, Mg, Ca, and Ti reported in %, all other elements reported in ppm. Results are in the series 1, 0.7, 0.5, 0.3, 0.2, 0.15, 0.1, etc. Lower limits of determination are in parenthesis.

88

FILM NO. 6-182-F

REPORT NO. H-4-3765

ANALYST C. Ford

Sheet #2

(1) Be	(10) Bi	(20) Cd	(5) Co	(10) Cr	(5) Cu	(20) La	(5) Mo	(20) Nb	(5) Ni	D M W	Tag no. 72-77 78 80	Field No.
1 2-7	8 9-14	15 16-21	22 23-28	29 30-35	36 37-42	43 44-49	50 51-56	57 58-63	64 65-70		79-78 80	1111111111
L	N	N	30	L	15	L	N	N	10		11111111	BR-1
1	1	1	7	30	5	20	1	N	20		BFW	DG-20338
N	1	1	L	L	20	20	1	L	L		417	2061
L	1	1	N	10	L	L	1	N	L		418	2015
3	1	1	7	30	30	50	1	L	15		419	2115
1.5	1	1	5	20	15	20	1	N	20		420	2116
1.5	1	1	7	30	10	30	1	N	30		421	2117
1.5	1	1	L	20	7	30	1	N	20		422	2120
N	1	1	N	L	L	N	1	N	L		423	2121
1.5	1	1	5	30	10	20	1	N	20		424	2123
1.5	1	1	10	50	30	50	1	N	30		425	2125
1.5	1	1	7	30	7	20	1	N	15		426	1687
1	1	1	7	50	10	70	1	N	30		427	2130
1.5	1	1	7	20	10	L	1	N	15		428	2146
1.5	1	1	10	20	20	30	1	N	30		429	2149
1.5	1	1	7	30	7	70	1	N	50		430	2150
2	1	1	5	70	30	70	1	N	30		431	2152
8												
9												
20												
21												
22												
23												
24	1				5	20	1	1	15		432-133	3

FILM NO. 6-192-15 G= Greater than 10%, or Greater than value shown.

REPORT NO. 44-3965 H = Interference - = Not look for.

N = Not detected at limit of detection, or at value shown.
L = Detected, but below limit of determination, or below value shown.

* = Usual limits of determinations do not apply due to use of dilution technique.

(10) Pb		Pd		Pt		(100) Sb		(5) Sc		(10) Sn		(100) Sr		Te		U		(10) V		D M W		Tag No.		13		Field No.	
1	2-7	8	9-14	15	16-21	22	23-28	29	30-35	36	37-42	43	44-49	50	51-56	57	58-63	64	65-70	71		72-77	78	79-			
1	10					N			30	N			200						300			1111111		13		202-1	1
2	30								7				100						50			211		13		20328	2
3	10					N						N						10			417		13		2061	3	
4	30					N							200					10			418		13		2015	4	
5	50								10				100					50			419		13		2115	5	
6	10								7				150					50			420		13		2116	6	
7	20								7			N						50			421		13		2117	7	
8									10			L						30			422		13		2120	8	
9								N					300					10			423		13		2121	9	
10	30								10				100					50			424		13		2123	10	
11	70								10				200					50			425		13		2129	11	
12	10								15			L						30			426		13		1687	12	
13									10			N						70			427		13		2130	13	
14	20								7			N						30			428		13		2146	14	
15	30								10			N						50			429		13		2149	15	
16	20								10			L						50			430		13		2150	16	
17	30								15			N						70			431		13		2152	17	
18																							13				18
19																							13				19
20																							13				20
21																							13				21
22																							13				22
23																							13				23
24																							13				24

Some combinations of elements affect the limits of determination. Approximate values are given. In unusually favorable materials, concentrations somewhat lower than the values given may be detected. In unfavorable materials the given limits of determination may not be attained for some of the elements.

[illegible]

REPORT NO. 44-3965-

[illegible]

REMARKS: Fe, Mg, Ca, and Ti reported in %, all other elements reported in ppm. Results are in the lower limits of determination are in parenthesis.

FILM NO. 6-1-6

REPORT NO. 1411-3965

ANALYST

P. Fern

Sheet #2

(1) Be	(10) Bi	(20) Cd	(5) Co	(10) Cr	(5) Cu	(20) La	(5) Mo	(20) Nb	(5) Ni	D M W	Tag no. 12	Field No.												
1	2-7	8	9-14	15	16-21	22	23-28	29	30-35	36	37-42	43	44-49	50	51-56	57	58-63	64	65-70	71	72-77	78	79-80	Field No.
L		N					30	L			15		20	N			N		10			12	BCR-1	1
	1.5						5		30	20	20		50	11					30			12	DE-2153	2
	1.5						15		20	15			30	N					20			12	2154	3
	1.5						5		30	5			20	N					20			12	2155	4
	1.5						5		30	10			50	11					20			12	2156	5
	1.5						5		30	10			20		700			15				12	2160	6
	1.5						20		70	20			30		5			70				12	2160A	7
	1.5					L			50	10			30	11				20				12	2162	8
	1.5						10		70	7			30	11				30				12	2162A	9
	1.5						15		70	100			N		7			30				12	2180	10
	1.5						7		30	100			20		15			50				12	2174	11
	2						15		50	70			20	N				50				12	2175	12
	2						5		70	100		L		1				50				12	2175A	13
	1						15		50	10			70	N				50				12	2176	14
	1.5						15		50	30			30	N				30				12	2177	15
	1.5						7		50	30			30	N				15				12	2178	16
	1.5						5		20	20			20	N			V	10				12	2178A	17
	1.5						10		70	50			20		5		N	15				12	2179	18
																						12		19
																						12		20
																						12		21
																						12		22
																						12		23
																						12		24

FILM NO. 6-1-G G= Greater than 10%, or Greater

REPORT NO. H4-3965 H = Interference

- = Not look for.

N = Not detected at limit of detection, or at value shown.

L = Detected, but below limit of determination, or

below value shown.

* = Usual limits of determinations do not apply due to use of dilution technique.

(10) Pb		Pd		Pt		(100) Sb		(5) Sc		(10) Sn		(100) Sr		Te		U		(10) V		D M W		Tag No.		13		Field No.	
1	2-7	8	9-14	15	16-21	22	23-28	29	30-35	36	37-42	43	44-49	50	51-56	57	58-63	64	65-70	71		72-77	78	79-80			
1	10					N		30		N		300							300			111111		13		BCR-1	1
2	30							15				N							70			432		13		OG-2153	2
3	70							7				N							50			433		13		2154	3
4								10				L							70			434		13		2155	4
5								10					100						50			435		13		2156	5
6	10							7				200							100			436		13		2160	6
7								15				100							70			437		13		2160A	7
8								15				N							70			438		13		2162	8
9								15				N							70			439		13		2162A	9
10								15				N							100			440		13		2180	10
11								7				N							50			441		13		2174	11
12	150							15				N							100			442		13		2175	12
13	70							15				N							100			443		13		2175A	13
14	70							10				N							100			444		13		2176	14
15	10							10				N							70			445		13		2177	15
16								15				N							70			446		13		2178	16
17	70							10				150							30			447		13		2178A	17
18	15							20				N							150			448		13		2179	18
19																								13			1
20																								13			2
21																								13			2
22																								13			2
23																								13			2
24																								13			2

FILM NO. 6-1-C
REPORT NO. H44-3865-

[illegible]

(.05) Fe %	(.02) Mg %	(.05) Ca %	(.002) Ti %	(10) Mn	(.5) Ag	(200) As	(10) Au	(10) B	(20) Ba	D M W	Tag No.	Field No.
2-7	8	15	23-28	29	36	43	51-56	57	64	71	72-77	79-80
2	1.5	3	1	1500	37-42	44-49	51-56	58-63	65-70		72-77	79-80
3	.2	.2	.15	1000					500		72-77	79-80
2	.15	.7	.15	1000					5000		72-77	79-80
3	.7	2	.2	1000					5000		72-77	79-80
2	.15	1.5	.1	1500					2000		72-77	79-80
2	.15	.3	.05	500					5000		72-77	79-80
3	.7	2	.2	1000					2000		72-77	79-80
3	.5	1	.1	3000					5000		72-77	79-80
1.5	.2	.1	.1	500					2000		72-77	79-80
3	.15	.7	.1	1500					5000		72-77	79-80
1.5	.1	.5	.05	500					300		72-77	79-80
3	.5	2	.2	1000					3000		72-77	79-80
1	.15	.7	.03	500					150		72-77	79-80
1.5	.5	.7	.15	1000					1500		72-77	79-80
2	.7	1.5	.2	1500					5000		72-77	79-80
1	.02	1	.07	700					2000		72-77	79-80

96
 Fe, Mn, Ca, and Ti reported in %, all other elements reported in ppm. Results are in the series 1, 0.7, 0.5, 0.3, 0.2, 0.15, 0.1, etc. Lower limits of determination are in parentheses.

M NO. 6771-F

G = Greater than 10%, or Greater
than value shown.

H = Interference

- = Not look for.

PORT NO. 44-3966

N = Not detected at limit of detection, or
L = Detected, but below limit of determination, or
below value shown.* = Usual limits of determinations do not apply due to use
of dilution technique.

(10) Pb	Pd	Pt	(100) Sb	(5) Sc	(10) Sn	(100) Sr	Te	U	(10) V	D M W	Tag No.	13	Field No.
2-7	8	15	23-28	30-35	36	43	51-56	57	64	71	72-77	79-80	1111111111
10			N	30	N	200			300		851	13	BCL-1
20			L	L		3000			100		449	13	26-16
100			L			2000			70		450	13	118-D
15				5		700			70		451	13	121
50			N	N		1500			100		452	13	190
20			N	N		200			30		453	13	222
10				5		1000			50		454	13	309
70			N	N		300			100		455	13	321
20			N	N		200			30		456	13	876A
50			N	N		1500			50		457	13	881
30			N	N		300			15		458	13	884
30			N	N		1500			70		459	13	976A
10			N	N		N			20		460	13	1036
20			N	N		1000			50		461	13	1047-E
20			L			1500			50		462	13	1047-I
15			N	N		3000			70		463	13	1073
												13	
												13	
												13	
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Approximate values are given. In unusually favorable materials, concentrations somewhat lower than the values given may be detected. In unfavorable materials the given limits of determination may not be attained for some of the elements.

[illegible]

Approximate values are given. In unusually favorable materials, concentrations somewhat lower than the values given may be detected. In unfavorable materials the given limits of determination may not be attained for some of the elements.

[illegible] 10^3

6-184-F

REPORT NO.

ANALYST C. F. FORD

Sheet #2

[illegible]

FILM NO. 6-185-f

REPORT NO. 1813-3967

ANALYST P. FORD

Sheet #2

[illegible]

109

7-186-7

ANALYST

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Sheet #2

[illegible]

113

N = Not detected at limit of detection, or at value shown.
L = Detected, but below limit of determination, or below value shown.

REPORT NO. *1444-3967*

* - Usual limits of determinations do not apply due to use of dilution technique, sheet #3

OF DILUTION TECHNIQUE.														
	(10) Pb	Pd	Pt	(100) Sb	(5) Sc	(10) Sn	(100) Sr	Te	U	(10) V	D M W	Tag No.	13	Field No.
	1 2-7	8 9-14	15 16-21	22 23-28	29 30-35	36 37-42	43 44-49	50 51-56	57 58-63	64 65-70	71	72-77	78 80	79-80
1	10			N	30	N	300			300		1111111	13	BGR-1
2	10				N		300			30		512	13	OG-2174A
3	15				5		700			30		513	13	2157
4	15				N					L		514	13	2159C
5	15				N		N			L		515	13	2166
6	20				5		1000			50		516	13	1353A
7	15				30		200			500		517	13	1523
8	10				50		150			500		518	13	2033A
9	15				N		L			20		519	13	2121A
10	30			V	N		200			15		520	13	2128
11	15			N	N		L			30		521	13	2171
12													13	
13													13	
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NOTE: Some combinations of elements affect the limits of determination. Approximate values are given. In unusually favorable materials, concentrations somewhat lower than the values given may be detected. In unfavorable materials the given limits of determination may not be attained for some of the elements.

[illegible]

	(1) Be	(10) Bi	(20) Cd	(5) Co	(10) Cr	(5) Cu	(20) La	(5) Mo	(20) Nb	(5) Ni	D M W	Tag no.	12	Field No.										
1	2-7	8	9-14	15	16-21	22	23-28	29	30-35	36	37-42	43	44-49	50	51-56	57	58-63	64	65-70	71	72-77	78	79-80	Field No.
2	1	Ni	Ni	30	10	50	10	70	20	15	20	(L)	(L)	(L)	(L)	(L)	(L)	(L)	7	71	72-77	78	79-80	Field No.
3	1	1	1	10	20	70	20	70	20	10	30	30	30	(N)	15	(L)	(L)	(L)	10	71	72-77	78	79-80	Field No.
4	1.5	1	1	20	(L)	20	20	50	70	20	30	30	30	(N)	15	(L)	(L)	(L)	15	71	72-77	78	79-80	Field No.
5	1	1	1	10	70	20	20	70	20	15	30	30	30	(L)	30	(L)	(L)	(L)	30	71	72-77	78	79-80	Field No.
6	1	1	1	7	70	20	20	70	20	(L)	30	30	30	(L)	15	(L)	(L)	(L)	15	71	72-77	78	79-80	Field No.
7	1	1	1	5	70	20	20	70	20	5	10	10	10	(N)	15	(L)	(L)	(L)	15	71	72-77	78	79-80	Field No.
8	(L)	1	1	(N)	20	70	20	70	20	(L)	30	30	30	(N)	15	(L)	(L)	(L)	15	71	72-77	78	79-80	Field No.
9	1.5	1	1	5	70	20	20	70	20	7	10	10	10	(N)	15	(L)	(L)	(L)	15	71	72-77	78	79-80	Field No.
10	5	1	1	(N)	30	70	20	70	20	(L)	30	30	30	(N)	15	(L)	(L)	(L)	15	71	72-77	78	79-80	Field No.
11	1	1	1	10	70	20	20	70	20	7	10	10	10	(N)	15	(L)	(L)	(L)	15	71	72-77	78	79-80	Field No.
12	1	1	1	15	70	20	20	70	20	7	10	10	10	(N)	15	(L)	(L)	(L)	15	71	72-77	78	79-80	Field No.
13	(N)	1	1	15	70	20	20	70	20	10	30	30	30	(N)	15	(L)	(L)	(L)	15	71	72-77	78	79-80	Field No.
14	(L)	1	1	(L)	70	20	20	70	20	10	30	30	30	(N)	15	(L)	(L)	(L)	15	71	72-77	78	79-80	Field No.
15	(L)	1	1	30	70	20	20	70	20	500	500	500	500	(N)	15	(L)	(L)	(L)	15	71	72-77	78	79-80	Field No.
16	1	1	1	7	10	10	10	70	20	15	30	30	30	(N)	15	(L)	(L)	(L)	15	71	72-77	78	79-80	Field No.
17	(N)	1	1	(N)	10	10	10	70	20	30	30	30	30	(N)	15	(L)	(L)	(L)	15	71	72-77	78	79-80	Field No.
18																								
19																								
20																								
21																								
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23																								
24	(N)	(N)	(N)	(N)	20	70	(L)	(N)	(L)	(L)	(L)	(L)	(L)	(L)	(L)	(L)	(L)	(L)	(L)	(L)	(L)	(L)	(L)	Sp/B-H

FILM NO. 6-19-6

REPORT NO. HM 3968

G = Greater than 10%, or Greater than value shown.

H = Interference
- = Not look for.

N = Not detected at limit of detection, or at value shown.
L = Detected, but below limit of determination; or below value shown.

* = Usual limits of determinations do not apply due to use of dilution technique.

	(10) Pb		Pd		Pt		(100) Sb		(5) Sc		(10) Sn		(100) Sr		Te		U		(10) V		D M W	Tag No.		13	Field No.	
	1	2-7	8	9-14	15	16-21	22	23-28	29	30-35	36	37-42	43	44-49	50	51-56	57	58-63	64	65-70						
1		15						(N)		30		(N)		300						300			72-77	78	79-	BLR-1
2		(N)								10				300						70			BFV522	13	13	Dg-2
3		15								15				200						70			523	13	13	Dg-25
4		(N)								7				100						50			534	13	13	Dg-48
5		(L)								10				100						100			535	13	13	Dg-54
6		10												200						70			526	13	13	Dg-62
7		(N)												(L)						70			527	13	13	Dg-63
8		(N)								(L)				(N)						30			528	13	13	Dg-82
9		30								15				100						100			529	13	13	Dg-92
10		10								5				200						30			530	13	13	Dg-66
11		(N)								10				(L)						30			531	13	13	Dg-173B
12		10								10				(L)						50			522	13	13	Dg-261
13		20								(N)				1000						10			532	13	13	Dg-248
14		300								7				150						15			534	13	13	Dg-248A
15		15								30				150						300			525	13	13	Dg-326A
16		(L)								5				(L)						50			530	13	13	Dg-336B
17		(L)								7				300						30			537	13	13	Dg-367
18																								13		
19																								13		
20																								13		
21																								13		
22																								13		
23																								13		
24		150						100		(N)		(N)		150						70			1111	13	13	Dg-18-111

NOTE: Some combinations of elements affect the limits of determination.

Approximate values are given. In unusually favorable materials, concentrations somewhat lower than the values given may be detected. In unfavorable materials the given limits of determination may not be attained for some of the elements.

	(50) W	(10) Y	(200) Zn	(10) Zr	Si%	Al%	Na%	K%	P%	Ce	$\frac{P}{M}$ W	Tag No.	14	Field No.						
1	27	8	15	23-28	29	30-35	36	37-42	43	44-49	50	51-56	57	58-63	64	65-70	71	72-77	78	79-80
	N	20	N	150								////	14	BCR-1			1	////		
		15		70								55-52	14	Dg-2			2			
		15										523	14	Dg-25			3			
		20										524	14	Dg-48			4			
		10		50								525	14	Dg-54			5			
		15		70								526	14	Dg-62			6			
		10		50								527	14	Dg-63			7			
		20		200								528	14	Dg-82			8			
		15		70								529	14	Dg-92			9			
		11										530	14	Dg-106			10			
		15										531	14	Dg-173			11			
		10										532	14	Dg-201			12			
		15		(NI)								533	14	Dg-248			13			
		30		(LI)								534	14	Dg-248A			14			
		30		70								535	14	Dg-336A			15			
		15		100								536	14	Dg-336B			16			
		30		150								537	14	Dg-367			17			
													14				18			
													14				19			
													14				20			
													14				21			
													14				22			
													14				23			
													14				24			
												///	14	Sp 13-111						

	(.05) Fe %	(.02) Mg %	(.05) Ca %	(.002) Ti %	(10) Mn	(.5) Ag	(200) As	(10) Au	(10) B	(20) Ba	D M W	Tag No.	11	Field No.											
1	2-7	8	9-14	15	16-21	22	23-28	29	30-35	36	37-42	43	44-49	50	51-56	57	58-63	64	65-70	71	72-77	78	79-	80	1111111111
	10	1.5	2	.7	700	N	N	N	N	700															PCR-1
	5	7	7	.3	500					150															Dg-373
	3	1.5	.05	.7	50					300															Dg-420
	1	1	G (20)	.03	500					(L)															Dg-424
	5	7	10	.15	500					70															Dg-455
	3	7	5	.15	300					100															Dg-472
	5	5	5	.15	500					150															Dg-487-A
	5	7	5	.2	500					100															Dg-502
	1	1.7	.07	.5	70					150															Dg-517-66
	1.5	3	.05	.2	30					150															Dg-529
	.2	1.5	20	(L)	1500					(N)															Dg-535
	2	7	7	2	300					100															Dg-565
	7	10	7	.3	1000					100															Dg-576
	3	7	5	.15	300					30															Dg-590-A
	3	10	3	.15	200					30															Dg-590-B
	1	1.5	20	.05	500					15															Dg-608
	3	1.5	.2	.5	100					200															Dg-620
	10	.3	.5	.15	700					1000															Dg-18-132
																									Sp 18-132

REMARKS: Fe, Mg, Ca, and Ti reported in %, all other elements reported in ppm. Results are in the series 1, 0.7, 0.5, 0.3, 0.2, 0.15, 0.1, etc. Lower limits of determination are in parenthesis.

FILM NO. 6-26-6

REPORT NO. MM 3468

ANALYST K. J. CURRY - C. SMITH
Sheet #2

(1) Be	(10) Bi	(20) Cd	(5) Co	(10) Cr	(5) Cu	(20) La	(5) Mo	(20) Nb	(5) Ni	D M W	Tag no.	12	Field No.
1 2-7	8 9-14	15 16-21	22 23-28	29 30-35	36 37-42	43 44-49	50 51-56	57 58-63	64 65-70	71	72-77	78 80	1111111111
1	(N)	(N)	7	15	15	100	(L)	(L)	15		1111111	12	DCR-1
2	(L)	(L)	7	20	7	20	(N)	(L)	15		BEK53	12	Dg-373
3	(N)	(L)	7	50	10	30	5	(N)	30		539	12	Dg-420
4	(L)	(L)	(N)	(L)	(L)	(L)	N	(N)	(L)		540	12	Dg-424
5	(L)	(L)	7	50	30	30	(L)	(L)	20		541	12	Dg-455
6	1.5	(L)	7	50	30	30	(L)	(L)	20		542	12	Dg-472
7	1.5	(L)	7	40	40	30	(L)	(L)	30		543	12	Dg-487-A
8	1	(L)	5	30	10	20	(L)	(L)	15		544	12	Dg-502
9	2	(L)	(N)	30	7	100	(N)	(L)	15		545	12	Dg-517-616
10	5	(L)	(L)	(L)	(L)	100	(L)	(L)	(L)		546	12	Dg-529
11	(N)	(L)	(L)	(L)	(L)	70	(L)	(L)	(N)		547	12	Dg-535
12	1	(L)	(L)	20	15	20	(L)	(L)	15		548	12	Dg-565
13	(L)	(L)	10	30	15	30	(L)	(L)	30		549	12	Dg-576
14	1	(L)	7	(L)	50	30	(L)	(L)	(L)		550	12	Dg-590-A
15	(L)	(L)	7	(L)	15	20	(L)	(L)	(L)		551	12	Dg-590-B
16	(N)	(L)	(N)	15	10	(L)	(L)	(L)	7		552	12	Dg-608
17	1.5	(L)	7	20	20	30	(L)	(L)	15		553	12	Dg-620
18	1.5	(L)	10	(L)	15000	30	(L)	(L)	7		1111	12	Dg-18-132
19												12	
20												12	
21												12	
22												12	
23												12	
24												12	

FILM NO. 6-40-6

G = Greater than 10%, or Greater than value shown.

H = Interference

- = Not look for.

REPORT NO. H M 3968

N = Not detected at limit of detection, or at value shown.

L = Detected, but below limit of determination, or below value shown.

* = Usual limits of determinations do not apply due to use of dilution technique.

24111111

Sheet #3

OI dilution technique																										
	(10) Pb	Pd	Pt	(100) Sb	(5) Sc	(10) Sn	(100) Sr	Te	U	(10) V	D M W	Tag No.	13	Field No.												
1	2-7	8	9-14	15	16-21	22	23-28	29	30-35	36	37-42	43	44-49	50	51-56	57	58-63	64	65-70	71	72-77	78	79-80	13	13	13
1	L						N		30		N		300							300		1111111		13	13	PCR-1
2	15								7				300							50		2FV538		13	13	24-373
3	20								15				100							300		539		13	13	24-420
4	15								(N)				1500							10		540		13	13	24-434
5	50								10				150							30		541		13	13	24-455
6	N								7				200							70		542		13	13	24-473
7	30								10				L							50		543		13	13	24-487A
8	L								7				100							50		544		13	13	24-503
9	15								7				300							70		545		13	13	24-517-666
10	15								5				(N)							15		546		13	13	24-524
11	(2)								(N)				500							(2)		547		13	13	24-535
12	30								5				150							50		548		13	13	24-565
13	15								10				300							70		549		13	13	24-576
14	15								7				200							1		550		13	13	24-590A
15	(2)								7				150							1		551		13	13	24-590B
16	(2)								(2)				700							20		552		13	13	24-608
17	15								7				(2)							50		553		13	13	24-620
18	30								(2)				100							20		1111		13	13	24-18-132
19																								13	13	
20																								13	13	
21																								13	13	
22																								13	13	
23																								13	13	
24																								13	13	

NOTE: Some combinations of elements affect the limits of determination. Approximate values are given. In unusually favorable materials, concentrations somewhat lower than the values given may be detected. In unfavorable materials the given limits of determination may not be attained for some of the elements.

(50)		(10)		(200)		(10)		Zr		Si%		Al%		Na%		K%		P%		Ce		R W		Tag No.		14		Field No.	
1	2-7	8	9-14	15	16-21	22	23-28	29	30-35	36	37-42	43	44-49	50	51-56	57	58-63	64	65-70	71	72-77	78	79-	80	81	82	83	84	
1	N	20	20	N	200	22	23-28	29	30-35	36	37-42	43	44-49	50	51-56	57	58-63	64	65-70	71	72-77	78	79-	80	81	82	83	84	
2	N	15	15	N	100	22	23-28	29	30-35	36	37-42	43	44-49	50	51-56	57	58-63	64	65-70	71	72-77	78	79-	80	81	82	83	84	
3	N	30	30	N	150	22	23-28	29	30-35	36	37-42	43	44-49	50	51-56	57	58-63	64	65-70	71	72-77	78	79-	80	81	82	83	84	
4	N	15	15	N	20	22	23-28	29	30-35	36	37-42	43	44-49	50	51-56	57	58-63	64	65-70	71	72-77	78	79-	80	81	82	83	84	
5	N	20	20	N	50	22	23-28	29	30-35	36	37-42	43	44-49	50	51-56	57	58-63	64	65-70	71	72-77	78	79-	80	81	82	83	84	
6	N	10	10	N	50	22	23-28	29	30-35	36	37-42	43	44-49	50	51-56	57	58-63	64	65-70	71	72-77	78	79-	80	81	82	83	84	
7	N	10	10	N	70	22	23-28	29	30-35	36	37-42	43	44-49	50	51-56	57	58-63	64	65-70	71	72-77	78	79-	80	81	82	83	84	
8	N	15	15	N	50	22	23-28	29	30-35	36	37-42	43	44-49	50	51-56	57	58-63	64	65-70	71	72-77	78	79-	80	81	82	83	84	
9	N	10	10	N	100	22	23-28	29	30-35	36	37-42	43	44-49	50	51-56	57	58-63	64	65-70	71	72-77	78	79-	80	81	82	83	84	
10	N	30	30	N	200	22	23-28	29	30-35	36	37-42	43	44-49	50	51-56	57	58-63	64	65-70	71	72-77	78	79-	80	81	82	83	84	
11	N	30	30	N	101	22	23-28	29	30-35	36	37-42	43	44-49	50	51-56	57	58-63	64	65-70	71	72-77	78	79-	80	81	82	83	84	
12	N	15	15	N	50	22	23-28	29	30-35	36	37-42	43	44-49	50	51-56	57	58-63	64	65-70	71	72-77	78	79-	80	81	82	83	84	
13	N	20	20	N	70	22	23-28	29	30-35	36	37-42	43	44-49	50	51-56	57	58-63	64	65-70	71	72-77	78	79-	80	81	82	83	84	
14	N	10	10	N	50	22	23-28	29	30-35	36	37-42	43	44-49	50	51-56	57	58-63	64	65-70	71	72-77	78	79-	80	81	82	83	84	
15	N	10	10	N	70	22	23-28	29	30-35	36	37-42	43	44-49	50	51-56	57	58-63	64	65-70	71	72-77	78	79-	80	81	82	83	84	
16	N	10	10	N	30	22	23-28	29	30-35	36	37-42	43	44-49	50	51-56	57	58-63	64	65-70	71	72-77	78	79-	80	81	82	83	84	
17	N	30	30	N	150	22	23-28	29	30-35	36	37-42	43	44-49	50	51-56	57	58-63	64	65-70	71	72-77	78	79-	80	81	82	83	84	
18	N	50	50	N	70	22	23-28	29	30-35	36	37-42	43	44-49	50	51-56	57	58-63	64	65-70	71	72-77	78	79-	80	81	82	83	84	
19																													
20																													
21																													
22																													
23																													
24																													

FILM NO. 6-21-G

SEMI-QUANTITATIVE SPECTROGRAPHIC - FIELD SERVICES SECTION

REPORT NO. HM 3968

6 - Step D.C. Arc

Requested by J.L. Gualtieri

Date 11/10/72
Sheet #1

(Fe %)		(Mg %)		(Ca %)		(Ti %)		(Mn)		(Ag)		(AS)		(Au)		(B)		(Ba)		(D M W)		(Tag No.)		(Field No.)	
1	2-7	8	9-14	15	16-21	22	23-28	29	30-35	36	37-42	43	44-49	50	51-56	57	58-63	64	65-70	71	72-77	78	79-80	11	11
1	15	2	2	5	5	1	1	1500	1500	(N)	(N)	(N)	(N)	(N)	(N)	(N)	(N)	1000	1000		72-77	78	79-80	11	11
2	5	2	2	5	5	.3	.3	500	500	(N)	(N)	(N)	(N)	(N)	(N)	(N)	(N)	300	300		BEV554			11	11
3	1.5	3	3	15	15	.07	.07	1000	1000	(N)	(N)	(N)	(N)	(N)	(N)	(N)	(N)	15	15		555			11	11
4	3	7	7	7	7	.07	.07	700	700	(N)	(N)	(N)	(N)	(N)	(N)	(N)	(N)	70	70		556			11	11
5	7	10	10	5	5	.2	.2	500	500	(N)	(N)	(N)	(N)	(N)	(N)	(N)	(N)	150	150		557			11	11
6	15	5	5	10	10	.07	.07	300	300	↓	↓	↓	↓	↓	↓	↓	↓	100	100		558			11	11
7	5	↓	↓	3	3	.2	.2	300	300	5	5	5	5	5	5	5	5	300	300		559			11	11
8	7	↓	↓	3	3	.2	.2	200	200	(N)	(N)	(N)	(N)	(N)	(N)	(N)	(N)	1000	1000		560			11	11
9	5	2	2	15	15	.3	.3	150	150	↓	↓	↓	↓	↓	↓	↓	↓	300	300		561			11	11
10	7	7	7	3	3	.3	.3	1000	1000	↓	↓	↓	↓	↓	↓	↓	↓	200	200		562			11	11
11	5	2	2	7	7	.1	.1	500	500	15	15	15	15	15	15	15	15	3000	3000		563			11	11
12	3	7	7	15	15	.3	.3	700	700	(N)	(N)	(N)	(N)	(N)	(N)	(N)	(N)	200	200		564			11	11
13	15	1	1	15	15	.15	.15	500	500	(N)	(N)	(N)	(N)	(N)	(N)	(N)	(N)	300	300		565			11	11
14	5	3	3	10	10	.3	.3	1500	1500	(N)	(N)	(N)	(N)	(N)	(N)	(N)	(N)	700	700		566			11	11
15	1	6 (10)	6 (20)	6 (20)	6 (20)	.02	.02	500	500	(N)	(N)	(N)	(N)	(N)	(N)	(N)	(N)	(41)	(41)		567			11	11
16	5	5	5	7	7	.15	.15	1500	1500	(N)	(N)	(N)	(N)	(N)	(N)	(N)	(N)	100	100		568			11	11
17	15	15	15	.3	.3	.5	.5	100	100	↓	↓	↓	↓	↓	↓	↓	↓	(41)	(41)		569			11	11
18	15	12	12	15	15	.007	.007	500	500	5	5	5	5	5	5	5	5	(41)	(41)		1111			11	11
19																								11	11
20																								11	11
21																								11	11
22																								11	11
23																								11	11
24																								11	11

REMARKS: Fe, Mg, Ca, and Ti reported in %, all other elements reported in ppm. Results are in the series 1, 0.7, 0.5, 0.3, 0.2, 0.15, 0.1, etc. Lower limits of determination are in parenthesis.

124

[illegible]

FILM NO. 6-21-G G= Greater than 10%, or Greater than value shown.
 REPORT NO. H N 3968 H = Interference - = Not look for.

N = Not detected at limit of detection, or at value shown.
 L = Detected, but below limit of determination, or below value shown.
 * = Usual limits of determinations do not apply due to use of dilution technique.

	(10) Pb	Pd	Pt	(100) Sb	(5) Sc	(10) Sn	(100) Sr	Te	U	(10) V	D M W	Tag No.	13	Field No.											
1	2-7	8	15	16-21	22	23-28	29	30-35	36	37-42	43	44-49	50	51-56	57	58-63	64	65-70	71	72-77	78	79-80			
1	15					(N)		30		(N)		300						550		3FV554		13	79-80	13	79-80
2	(L)							7				300						50				13	79-80	13	79-80
3	15							5				1000						15				13	79-80	13	79-80
4	300							5				150						50				13	79-80	13	79-80
5	100							10				100						70				13	79-80	13	79-80
6	(N)							5				300						20				13	79-80	13	79-80
7	15							10				150						100				13	79-80	13	79-80
8	15							15				100						200				13	79-80	13	79-80
9	20							15				21						70				13	79-80	13	79-80
10	20							15				21						100				13	79-80	13	79-80
11	15							5				200						30				13	79-80	13	79-80
12	30							10				300						50				13	79-80	13	79-80
13	10							5				100						30				13	79-80	13	79-80
14	(L)							10				300						100				13	79-80	13	79-80
15	(L)							(N)				150						30				13	79-80	13	79-80
16	30							7				21						70				13	79-80	13	79-80
17	(N)							(L)				300						30				13	79-80	13	79-80
18	1000							(L)				21						300				13	79-80	13	79-80
19																						13	79-80	13	79-80
20																						13	79-80	13	79-80
21																						13	79-80	13	79-80
22																						13	79-80	13	79-80
3																						13	79-80	13	79-80
24																						13	79-80	13	79-80

Approximate values are given. In unusually favorable materials, concentrations somewhat lower than the values given may be detected. In unfavorable materials the given limits of determination may not be attained for some of the elements.

[illegible]

Requested by_

J.L. Qualtrici

Date 11/13/12
Sheet #1

REMARKS: Fe, Mg, Ca, and Ti reported in %, all other elements reported in ppm. Results are in the series 1, 0.7, 0.5, 0.3, 0.2, 0.15, 0.1, etc. Lower limits of determination are in parenthesis.

128

	(1) Be	(10) Bi	(20) Cd	(5) Co	(10) Cr	(5) Cu	(20) La	(5) Mo	(20) Nb	(5) Ni	D M W	Tag no.	12	Field No.										
1	2-7	8	9-14	15	16-21	22	23-28	29	30-35	36	37-42	43	44-49	50	51-56	57	58-63	64	65-70	71	72-77	78	79-80	Field No.
2	6	(N)	(N)	30	15	70	30	15	57	15		1111111	12	BCR-1										
3	1	(N)	(N)	10	70	70	70	20		20		BCR 576	12	Dg-874										
4	1.5	(N)	(N)	7	70	70	70	70		15		571	12	Dg-875										
5	1.5	(N)	(N)	30	70	70	70	70		30		572	12	Dg-942										
6	2	(N)	(N)	30	70	70	70	70		30		573	12	Dg-1097										
7	(L)	(N)	(N)	7	70	70	70	70		15		574	12	Dg-1108										
8	(N)	(N)	(N)	7	70	70	70	70		15		575	12	Dg-1116										
9	(N)	(N)	(N)	7	70	70	70	70		15		576	12	Dg-1135										
10	(N)	(N)	(N)	7	70	70	70	70		15		577	12	Dg-1135A										
11	1.5	(N)	(N)	7	70	70	70	70		15		578	12	Dg-1140										
12	1	(N)	(N)	7	70	70	70	70		15		579	12	Dg-1141										
13	2	(N)	(N)	7	70	70	70	70		15		580	12	Dg-1152										
14	(N)	(N)	(N)	7	70	70	70	70		15		581	12	Dg-1168										
15	1.5	(N)	(N)	7	70	70	70	70		15		582	12	Dg-1171										
16	1.5	(N)	(N)	7	70	70	70	70		15		583	12	Dg-1191										
17	1	(N)	(N)	7	70	70	70	70		15		584	12	Dg-1197										
18	2	(N)	(N)	7	70	70	70	70		15		585	12	Dg-1214										
19												1111	12	Gp/B-157										
20													12											
21													12											
22													12											
23													12											
24													12											

FILM NO. 6-22-C G= Greater than 10%, or Greater than value shown.
REPORT NO. HWA 3968 H = Interference
- = Not look for.

N = Not detected at limit of detection, or at value shown.
L = Detected, but below limit of determination, or below value shown.
* = Usual limits of determinations do not apply due to use of dilution technique.

	(10) Pb	Pd	Pt	(100) Sb	(5) Sc	(10) Sn	(100) Sr	Te	U	(10) V	D M W	Tag No.	13	Field No.															
1	2-7	8	9-14	15	16-21	22	23-28	29	30-35	36	37-42	43	44-49	50	51-56	57	58-63	64	65-70	71	72-77	78	79-80	1111111111					
1	15						N		30		(N)		300						300				11111111	13	13	13	13	Dg-814	
2									10				300						100				3F1576	13	13	13	13	Dg-875	
3													700						100				571	13	13	13	13	Dg-943	
4													(L)						70				573	13	13	13	13	Dg-1097	
5									15				(L)						100				573	13	13	13	13	Dg-1108	
6									(N)				300						10				574	13	13	13	13	Dg-1116	
7									10				(N)						30				575	13	13	13	13	Dg-1135	
8									(L)				(L)						15				576	13	13	13	13	Dg-1141	
9									(N)				(L)						10				577	13	13	13	13	Dg-1152	
10									(N)				200						(L)				578	13	13	13	13	Dg-1163	
11									15				150						30				579	13	13	13	13	Dg-1171	
12									15				100						70				580	13	13	13	13	Dg-1191	
13									15				100						70				581	13	13	13	13	Dg-1197	
14									(N)				(L)						10				582	13	13	13	13	Dg-1214	
15									15				100						70				583	13	13	13	13	Gp 12-13	
16									15				100						70				584	13	13	13	13		
17									7				(L)						50				585	13	13	13	13		
18									10				300						70				1111	13	13	13	13		
19																								13	13	13	13		
20																								13	13	13	13		
21																									13	13	13	13	
22																									13	13	13	13	
23																									13	13	13	13	
24																									13	13	13	13	

NOTE.

SOME COMBINATIONS OF ELEMENTS

Approximate values are given. In unusually favorable materials, concentrations somewhat lower than the values given may be detected. In unfavorable materials the given limits of determination may not be attained for some of the elements.

	(50) W	(10) Y	(200) Zn	(10) Zr	Si%	Al%	Na%	K%	P%	Ce	R W	Tag No.	14	Field No.
1	2-7 (N)	8 20	15 N	22 70	29 30-35	36 37-42	43 44-49	50 51-56	57 58-63	64 65-70	71	72-77 78	79- 80	////////
2		10	N	50								580	14	Dg 874
3		15	L	70								571	14	Dg 875
4		(L)	(L)	50								572	14	Dg 942
5		15	N	70								573	14	Dg 1097
6		10		30								574	14	Dg 1108
7		50		300								575	14	Dg 1116
8		10	(L)	30								576	14	Dg 1135
9		(L)	N	70								577	14	Dg 1135A
10		N		(N)								578	14	Dg 1140
11		30		500								579	14	Dg 1141
12		30		100								580	14	Dg 1152
13		30	(L)	150								581	14	Dg 1168
14		(L)	(N)	70								582	14	Dg 1181
15		30		150								583	14	Dg 1191
16		50		300								584	14	Dg 1197
17		30		300								585	14	Dg 1214
18	150	30		200								111	14	Gp 118-159
19													14	
20													14	
21													14	
22													14	
23													14	
24													14	

REPORT NO. HM 3968

6 - Step D.C. Arc

Requested by J.L.

G-4911461

Date 11/13/62

Sheet #1

(.05) Fe %	(.02) Mg %	(.05) Ca %	(.002) Ti %	(10) Mn	(.5) Ag	(200) As	(10) Au	(10) B	(20) Ba	D M W	Tag No.	11	Field No.
1 2-7	8 9-14	15 16-21	22 23-28	29 30-35	36 37-42	43 44-49	50 51-56	57 58-63	64 65-70	71	72-77	78 80	11111111
15	2	3	.7	1500	N	N	N	N	700		11111111	11	BLR-1
3	5	7	.07	1000	N	N	N	20	L		BFrs86	11	Dg-1221
15	17	.05	.15	1	L	N	N	300	300		587	11	Dg-482-I-2
3	5	3	.1	300	N	N	N	70	100		588	11	Dg-604
2	14	.07	.15	70	1.5	N	N	20	L		589	11	Dg-517-B
3	5	5	.07	300	N	N	N	50	L		590	11	Dg-491
12	.05	.05	.15	50	N	N	N	L	L		591	11	Dg-517-A
16	.05	1	.3	70	N	N	N	L	L		592	11	Dg-665-666
10	.17	L	.2	L	N	N	N	100	100		593	11	Dg-482-I-1
1.5	.03	1	.1	20	L	N	N	L	50		594	11	Dg-482-D
13	.02	1	.15	L	N	N	N	N	L		595	11	Dg-482-E
10	3	3	.3	1000	L	N	N	70	150		596	11	Dg-656-A
17	.15	2	.07	300	N	N	N	30	50		597	11	Dg-111C
1.5	.15	.17	.07	150	N	N	N	50	70		598	11	Dg-1112
3	5	5	.15	300	N	N	N	15	100		599	11	Dg-1623
17	17	17	.15	1000	N	N	N	L	L		1111	11	Gp/B-34
17												11	
18												11	
19												11	
20												11	
21												11	
22												11	
23												11	
24												11	

REMARKS: Fe, Mg, Ca, and Ti reported in %, all other elements reported in ppm. Results are in the series 1, 0.7, 0.5, 0.3, 0.2, 0.15, 0.1, etc. Lower limits of determination are in parenthesis.

(1) Be	(10) Bi	(20) Cd	(5) Co	(10) Cr	(5) Cu	(20) La	(5) Mo	(20) Nb	(5) Ni	D M W	Tag no.	12	Field No.												
1	2-7	8	9-14	15	16-21	22	23-28	29	30-35	36	37-42	43	44-49	50	51-56	57	58-63	64	65-70	71	72-77	78	79-80	Field No.	
1	1	N	N	50	15	30	15	30	15	30	15	30	15	30	15	30	15	30	15	30	15	30	15	30	15
2	L	L	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
3	1.5	L	1.5	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
4	L	L	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
5	N	N	N	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
6	L	L	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
7	N	N	N	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
8	1.5	L	1.5	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
9	1.5	L	1.5	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
10	N	N	N	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
11	N	N	N	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
12	N	N	N	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
13	N	N	N	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
14	N	N	N	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
15	N	N	N	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
16	1.5	L	1.5	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
17	.	N	N	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
18																									
19																									
20																									
21																									
22																									
23																									
24																									

FILM NO. 6-33-G G = Greater than 10%, or Greater than value shown.
 REPORT NO. HM 3968 H = Interference
 - = Not look for.

N = Not detected at limit of detection, or at value shown.
 L = Detected, but below limit of determination, or below value shown.
 * = Usual limits of determinations do not apply due to use of dilution technique.

	(10)		(100)		(5)		(10)		(100)		Te		U		(10)		D M W		Tag No.		13		Field No.		
	Pb	Pd	Pt	Sb	Sc	Sn	Sr	50	51-56	57	58-63	64	65-70	V											
1	2-7	8	9-14	15	16-21	22	23-28	29	30-35	36	37-42	43	44-49	50	51-56	57	58-63	64	65-70	71	72-77	78	79-	80	81
1	15																								
2	20																								
3	70																								
4	30																								
5	L																								
6	20																								
7	N																								
8	20																								
9	20																								
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NOTE: Some concentrations of elements

Approximate values are given. In unusually favorable materials, concentrations somewhat lower than the values given may be detected. In unfavorable materials the given limits of determination may not be attained for some of the elements.

	(50)	(10)	(200)	(10)	Zr	Si%	Al%	Na%	K%	p%	Ce	R W	Tag No.	14	Field No.							
1	2-7	8	15	23-28	29	30-35	36	37-42	43	44-49	50	51-56	57	58-63	64	65-70	71	72-77	78	79-80	14	Field No.
2	N	30	N	70	70																14	Dg-1221
3		15		50	50																14	Dg-482A
4		12		70	70																14	Dg-604
5		10		30	30																14	Dg-57B
6		15		70	70																14	Dg-491
7		10		30	30																14	Dg-57A
8		4		150	150																14	Dg-45660
9		4		70	70																14	Dg-487-1
10		4		70	70																14	Dg-492D
11		4		70	70																14	Dg-482G
12		15		50	50																14	Dg-652A
13		7		70	70																14	Dg-1110
14		10		150	150																14	Dg-1112
15		4		50	50																14	Dg-1023
16	N		N	11	11																14	Dg-1023
17																					14	Dg-1023
18																					14	Dg-1023
19																					14	Dg-1023
20																					14	Dg-1023
21																					14	Dg-1023
22																					14	Dg-1023
23																					14	Dg-1023
24																					14	Dg-1023

(Fe %)		(Mg %)		(Ca %)		(Ti %)		(Mn)		(Ag)		(As)		(Au)		(B)		(Ba)		(D M W)		(Tag No.)		(Field No.)	
1	2-7	8	9-14	15	16-21	22	23-28	29	30-35	36	37-42	43	44-49	50	51-56	57	58-63	64	65-70	71	72-77	78	79-	80	
1	7	2	2	3	3	1	1	1500	N	N	N	N	N	N	N	L	L	700	1111111	11	1111111	11	BCR-1	1	
2	2	7	1	6	20	.15	.15	2000	N	N	N	N	N	N	N	L	L	700	8FY	11	8FY	11	DG-1460	2	
3	15	1	1	7	.7	.1	.1	500	N	N	N	N	N	N	N	50	50	200	633	11	633	11	1435	3	
4	3	1	1	10	10	.5	.5	700	N	N	N	N	N	N	N	10	10	500	634	11	634	11	1455	4	
5	3	1.5	1.5	6	20	.2	.2	700	N	N	N	N	N	N	N	10	10	700	635	11	635	11	1356-A	5	
6	3	1	1	6	20	.3	.3	500	N	N	N	N	N	N	N	15	15	500	636	11	636	11	1356-A	6	
7	1	.5	.5	7	.7	.15	.15	100	N	N	N	N	N	N	N	L	L	200	637	11	637	11	1387	7	
8	3	2	2	20	20	.3	.3	1000	N	N	N	N	N	N	N	20	20	500	638	11	638	11	1434	8	
9	2	1	1	7.5	7.5	.07	.07	150	N	.5	.5	200	200	200	200	100	100	100	639	11	639	11	1913	9	
10	7	2	2	10	10	.7	.7	1500	N	N	N	N	N	N	N	20	20	700	640	11	640	11	1911	10	
11	3	.1	.1	.5	.5	.03	.03	300	N	N	N	L	N	N	N	20	20	150	641	11	641	11	1153	11	
12	20	.03	.03	.1	.1	.015	.015	50	N	N	N	300	300	300	300	L	L	20	642	11	642	11	1157-7	12	
13	1	10	10	20	20	.02	.02	3000	N	N	N	N	N	N	N	15	15	200	643	11	643	11	1163	13	
14	2	.7	.7	1	1	0.1	0.1	70	N	N	N	L	N	N	N	10	10	1500	644	11	644	11	1368	14	
15	2	2	2	6	20	.15	.15	700	N	N	N	N	N	N	N	15	15	500	645	11	645	11	1388	15	
16																				11				16	
17																				11				17	
18																				11				18	
19																				11				19	
20																				11				20	
21																				11				21	
22																				11				22	
23																				11				23	
24	28	.3	.3	.5	.5	.05	.05	700	N	30	30	300	300	N	N	L	L	500		11			130134	24	

REMARKS: Fe, Mg, Ca, and Ti reported in %, all other elements reported in ppm. Results are in the series 1, 0.7, 0.5, 0.3, 0.2, 0.15, 0.1, etc. Lower limits of determination are in parenthesis.

FILM NO. 6-70-F

REPORT NO. 443971

ANALYST C. F. F. - I. B. B. - J. R. R.

Sheet #2

(1) Be	(10) B1	(20) Cd	(5) Co	(10) Cr	(5) Cu	(20) La	(5) Mo	(10) Nb	(5) N1	D M W	Tag no.	12	Field No.												
1	2-7	8	9-14	15	16-21	22	23-28	29	30-35	36	37-42	43	44-49	50	51-56	57	58-63	64	65-70	71	72-77	78	79-80	Field No.	
1	L	N	30	L	30	L	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	BCR4
2	L	N	5	L	10	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	DG-1460
3	70	N	5	20	70	50	N	N	N	N	N	N	200	N	N	N	N	N	N	N	N	N	N	N	1435
4	1	N	7	30	30	50	N	N	N	N	N	N	50	N	N	N	N	N	N	N	N	N	N	N	1455
5	1.5	N	5	50	10	50	N	N	N	N	N	N	30	N	N	N	N	N	N	N	N	N	N	N	1356-1
6	3	N	5	50	10	70	N	N	N	N	N	N	50	N	N	N	N	N	N	N	N	N	N	N	1356-8
7	1	N	L	20	7	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	1387
8	3	N	5	50	20	50	N	N	N	N	N	N	30	N	N	N	N	N	N	N	N	N	N	N	1434
9	20	N	L	L	30	100	N	N	N	N	N	N	100	N	5	N	N	N	N	N	N	N	N	N	1913
10	2	N	15	30	30	50	N	N	N	N	N	N	50	N	N	N	N	N	N	N	N	N	N	N	1911
11	10	N	N	L	50	N	N	N	N	N	N	N	N	N	100	N	N	N	N	N	N	N	N	N	1158
12	3	N	N	L	20	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	1159-7
13	7	N	N	L	10	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	1163
14	1	N	1	70	15	50	N	N	N	N	N	N	50	N	10	N	N	N	N	N	N	N	N	N	1268
15	1	N	L	70	15	20	N	N	N	N	N	N	20	N	N	N	N	N	N	N	N	N	N	N	1388
16		N																							
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18																									
19																									
20																									
21																									
22																									
23																									
24	1	300	N	L	1500	N	15	11	70																20/34

FILM NO. C-70-5

G = Greater than 10%, or Greater than value shown.

H = Interference

- = Not look for.

N = Not detected at limit of detection, or at value shown.

L = Detected, but below limit of determination, or below value shown.

* = Usual limits of determinations do not apply due to use of dilution technique.

REPORT NO. 44-3871

Sheet #3

Field No.

Tag No.

13

(10) Pb

Pd

Pt

(100) Sb

(5) Sc

(10) Sn

(100) Sr

Te

U

(10) V

D M W

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2-7

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9-14

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16-21

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23-28

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30-35

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37-42

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44-49

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51-56

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58-63

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65-70

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72-77

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79-

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NOTE: Some combinations of elements affect the limits of determination. Approximate values are given. In unusually favorable materials, concentrations somewhat lower than the values given may be detected. In unfavorable materials the given limits of determination may not be attained for some of the elements.

[illegible]

139

FILM NO. 6-51-F

SEMI-QUANTITATIVE SPECTROGRAPHIC - FIELD SERVICES SECTION

ANALYSIS

REPORT NO. HM-3977

6 - Step D.C. Arc

Requested by J. F. ...

Date 11/21/77

Sheet #1

	(.05) Fe %	(.02) Mg %	(.05) Ca %	(.002) Ti %	(10) Mn	(.5) Ag	(200) As	(10) Au	(10) B	(20) Ba	D M W	Tag No.	11	Field No.													
	1	2-7	8	9-14	15	16-21	22	23-28	29	30-35	36	37-42	43	44-49	50	51-56	57	58-63	64	65-70	71	72-77	78	79-80	11	79-80	//////////
1	1	7	2	7	1	1500 N	N	N	N	N	N	N	N	N	N	N	N	N	N	500			//////////	11	BCR-1	1	BCR-1
2	2	5	7	6	20	1000 N	N	N	N	N	N	N	N	N	N	N	N	N	20			//////////	11	BCR-1	2	Dg-1573A	
3	3																							11		3	
4	4																							11		4	
5	5																							11		5	
6	6																							11		6	
7	7																							11		7	
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9	9																							11		9	
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21	21																							11		21	
22	22																							11		22	
23	23																							11		23	
24	24																							11		24	

REMARKS: Fe, Mg, Ca, and Ti reported in %, all other elements reported in ppm. Results are in the series 1, 0.7, 0.5, 0.3, 0.2, 0.15, 0.1, etc. Lower limits of determination are in parenthesis.

FILM NO. 6-51-F

REPORT NO. HM 3977

ANALYST C. F. ... J. ...

Sheet #2

(1) Be	(10) Bi	(20) Cd	(5) Co	(10) Cr	(5) Cu	(20) La	(5) Mo	(10) Nb	(5) Ni	D M W	Tag no.	12	Field No.
1 2-7	8 9-14	15 16-21	22 23-28	29 30-35	36 37-42	43 44-49	50 51-56	57 58-63	64 65-70	71	72-77	78 79-80	1111111111
1 L	N	N	30 L	L	15	L	N	N	7		1111111111	12	BCE-1
2 L	N	N	N	20	5	50	N	N	5		BF-V 800	12	29-15134A
3												12	
4												12	
5												12	
6												12	
7												12	
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20												12	
21												12	
22												12	
23												12	
24												12	

FILM NO. 6-51-F

G= Greater than 10%, or Greater than value shown.

N = Not detected at limit of detection, or at value shown.
L = Detected, but below limit of determination, or below value shown.

H = Interference
- = Not look for.

REPORT NO. HM-3977

* = Usual limits of determinations do not apply due to use of dilution technique.

(10) Pb		Pd		Pt		(100) Sb		(5) Sc		(10) Sn		(100) Sr		Te		U		(10) V		D M W		Tag No.		13		Field No.	
1	2-7	8	9-14	15	16-21	22	23-28	29	30-35	36	37-42	43	44-49	50	51-56	57	58-63	64	65-70	71		72-77	78	79-80			
1	10					N		30	N	N		300							300			13				BAR-1	1
2	30					N		N		N		1000						L				13				Dg-1513A	2
3																						13					3
4																						13					4
5																						13					5
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21																						13					21
22																						13					22
23																						13					23
24																						13					24

FILM NO. 6-51-F

REPORT NO. HM-3977

NOTE: Some combinations of elements affect the limits of determination. Approximate values are given. In unusually favorable materials, concentrations somewhat lower than the values given may be detected. In unfavorable materials the given limits of determination may not be attained for some of the elements.

Sheet #4

(50) W		(10) Y		(200) Zn		(10) Zr		Si%	Al%	Na%	K%		P%		Ce		Tag No.	14	Field No.				
1	2-7	8	9-14	15	16-21	22	23-28	29	30-35	36	37-42	43	44-49	50	51-56	57	58-63	64	65-70	71	72-77	78	80
1	N	30	15	N	N	58											////	14	BCR-1	14	79-		
2	N																6-7	14	Dg 1573A	14	79-		
3																		14		14	79-		
4																		14		14	79-		
5																		14		14	79-		
6																		14		14	79-		
7																		14		14	79-		
8																		14		14	79-		
9																		14		14	79-		
10																		14		14	79-		
11																		14		14	79-		
12																		14		14	79-		
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18																		14		14	79-		
19																		14		14	79-		
20																		14		14	79-		
21																		14		14	79-		
22																		14		14	79-		
23																		14		14	79-		
24																		14		14	79-		

143

Au

AA

Hg

Instr.

Cu

AA

C. L. WHITTINGTON

Completion Date 12-7-72

DATE:									
FIELD NO.	TAG NO.	Au	Hg	Cu					
Dg-36-A	BFV 241	N(.05)	.04	45					
70-A	242	.20	.08	35					
142	243	N(.05)	.02	L(5)					
174	244		.02	150					
175	245		.02	L(5)					
1326	246		L(.02)	130					
270	247		L(.02)	10					
427-A	248		.02	5					
428	249		L(.02)	10					
444	250		.02	10					
480	251		.02	20					
507-A	252		.02	10					
508	253		.02	L(5)					
509	254		L(.02)						
564	255		N(.02)						
588	256		L(.02)	L(5)					
150	257		.20	10					
658	258		.02	L(5)					
438	259	N(.05)	L(.02)	25					
	Reference Samples	.05	.08	40					

#23

#2

#117

REMARKS: G = Greater than value shown; H = Interference; - = Not looked for; N() = Not detected at limit of detection, or at value shown; L() = Detected, but below limit of determination, or below value shown; * - Usual limits of determinations do not apply due to use of dilution technique or different sample weight; INS - Indicates insufficient sample. All values reported in

FIELD SERVICES SECTION

Submitter: _____

 HM 3963

2
3

ELEMENT AND METHOD

ANALYST

ELEMENT AND METHOD

ANALYST

Completion Date _____

DATE:

FIELD NO.	TAG NO.	As	Hg	Cu					
Dg-694	BFV 260	N(.05)	L(.02)	N(5)					
705	261		.02	15					
713	262		.02	L(5)					
729-A	263		L(.02)	5					
758	264		.02	310					
760	265		L(.02)	L(5)					
792	266		.02	15					
805	267		.30	80					
824	268		.02	15					
859	269		L(.02)	55					
1320	270		L(.02)	L(5)					
1087-B	271		.02	5					
1129	272		.02	50					
1315	273		L(.02)	5					
1160	274		.02	40					
1169-A	275		N(.02)	5					
1183	276		.02	10					
1199	277		.02	5					
1218	278	N(.05)	L(.02)	L(5)					
	Reference Samples	.05	.24	40					145

*102 *156 *053

REMARKS: G = Greater than value shown; H = Interference; - = Not looked for; N() = Not detected at limit of detection, or at value shown; L() = Detected, but below limit of determination, or below value shown; * = Usual limits of determinations do not apply due to use of dilution technique or different sample weight; INS = Indicates insufficient sample. All values reported in

ANALYST

ELEMENT AND METHOD

ANALYST

Completion Date

DATE:

[illegible]

REMARKS: G = Greater than value shown; H = Interference; - = Not looked for; N() = Not detected at limit of detection, or at value shown; L() = Detected, but below limit of determination, or below value shown; * – Usual limits of determinations do not apply due to use of dilution technique or different sample weight; INS = Indicates insufficient sample. All values reported in

FIELD SERVICES SECTION

Submitter: _____

HM 39642
3

ELEMENT AND METHOD

ANALYST

ELEMENT AND METHOD

ANALYST

Completion Date _____

DATE:

FIELD NO.	TAG NO.	As	Hg	Cu	Pb				
Dg-1996-A	BFV 305	N(.05)	L(.02)	L(5)	40				
2000	306	N(.05)	L(.02)	5	5				
2007-A	307	.05	.02	20	15				
2010-B	308	7.5	.50	20	15				
2011	309	10.	.30	L(5)	5				
2033-C	310	L(.05)	L(.02)	L(5)	10				
241-A	311	.30	.02	240	1000				
2163	312	N(.05)	.02	240	30				
2158	313	N(.05)	L(.02)	5	10				
2159	314	N(.05)	N(.02)	L(5)	L(5)				
2161-A	315	.05	L(.02)	15	25				
2164	316	L(.05)	.02	5	30				
2165	317	N(.05)	L(.02)	10	L(5)				
2166-B	318	N(.05)	L(.02)	N(5)	5 L(5)				
2167	319	28.	L(.02)	20	10				
2168	320	.30	.02	L(5)	20				
2169	321	21.	.06	10	20				
2170	322	1.0	.02	L(5)	120				
2173	323	N(.05)	L(.02)	N(5)	L(5)				
	Reference Samples	.10	.16	55	120				148

REMARKS: G = Greater than value shown; H = Interference; - = Not looked for; N() = Not detected at limit of detection, or at value shown; L() = Detected, but below limit of determination, or below value shown; * = Usual limits of determinations do not apply due to use of dilution technique or different sample weight; INS = Indicates insufficient sample. All values reported in

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REMARKS: G = Greater than value shown; H = Interference; - = Not looked for; N() = Not detected at limit of detection, or at value shown; L() = Detected, but below limit of determination, or below value shown; * = Usual limits of determinations do not apply due to use of dilution technique or different sample weight; INS = Indicates insufficient sample. All values reported in

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 Submitter: J. L. GUALTIERI

 HIM 3965

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Au	AA	}	C. L. WHITTINGTON
Hg	Detector		
Cu, Pb	AA		

 Completion Date 1-24-73

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FIELD NO.	TAG NO.	Au	Hg	Cu	Pb				
Dg-38	BFV 336	N(.05)	L(.02)	20	10				
74	337		.02	25	10				
78	338		.02	15	5				
81	339		.04	15	20				
81-A	340		.04	5	10				
81 B	341		.10	N(5)	35				
109	342		.02	15	5				
141-A	343		.02	10	5				
141-B	344		.60	30	5				
144	345		.02	10	50				
232	346	N(.05)	.02	25	L(5)				
232-B-1	347	1.5	2.0	2400	160				
232-B-2	348	.15	.8	65	10				
248	349	N(.05)	.02	10	15				
248-B	350		.04	15	20				
2189	351		.04	15	5				
417-A	352		.02	10	10				
677	353		.04	15	5				
1301	354	N(.05)	.14	10	10				
	Reference Samples	.10	.3	55	75				150

REMARKS: G = Greater than value shown; H = Interference; - = Not looked for; N() = Not detected at limit of detection, or at value shown; L() = Detected, but below limit of determination, or below value shown; * = Usual limits of determinations do not apply due to use of dilution technique or different sample weight; INS = Indicates insufficient sample. All values reported in

FIELD SERVICES SECTION

 Submitter: JL GUANIERI

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FIELD NO.	TAG NO.	Au	Hg	Cu	Pb				
Dg-1340	BFV 355	N(.05)	L(.02)	35	60				
1341	356			N(5)	L(5)				
1341-A	357			5	5				
1346-A	358			10	L(5)				
1347	359		L(.02)	10	L(5)				
1358	360		.02	L(5)	N(5)				
1359	361		.02	10	L(5)				
1361	362		L(.02)	15	10				
1371	363		.04	15	15				
1374	364		L(.02)	L(5)	10				
1389	365		.02	10	L(5)				
1405	366		L(.02)	10	L(5)				
1406	367		.02	5	10				
1427	368		L(.02)	L(5)	30				
1435	369		N(.02)	N(5)	L(5)				
1448	370		L(.02)	20	L(5)				
1459-A	371		L(.02)	20	15				
1485	372		.04	30	20				
1489	373	N(.05)	L(.02)	15	L(5)				
	Reference Samples	.30	3.	330	10				151

REMARKS: G = Greater than value shown; H = Interference; - = Not looked for; N () = Not detected at limit of detection, or at value shown; L () = Detected, but below limit of determination, or below value shown; * = Usual limits of determinations do not apply due to use of dilution technique or different sample weight; INS = Indicates insufficient sample. All values reported in

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Submitter: J L CHALIER

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FIELD NO.	TAG NO.	As	Hg	Cu	Pb				
Dg-1492-A	BFV 374	N(.05)	N(.02)	5	L(5)				
1495	375		.02	10	15				
1501	376		L(.02)	15	10				
1515	377		L(.02)	20	15				
1534	378		.02	L(5)	15				
1535-A	379		N(.02)	10	70				
1535-B	380		L(.02)	L(5)	L(5)				
1558	381		.06	110	15				
1558-A	382		L(.02)	L(5)	L(5)				
1559-A	383		.02	20	20				
1567	384		.02	10	L(5)				
1571	385		.04	10	5				
1577	386		L(.02)	5	5				
1579	387		.60	5	5				
1579-A	388		.02	5	L(5)				
1581	389		.02	5	N(5)				
1617	390		L(.02)	20	30				
1622-B	391		.02	30	N(5)				
1639	392	N(.05)	N(.02)	5	10				
	Return Samples	.05	3.	50	45				152

REMARKS: G = Greater than value shown; H = Interference; - = Not looked for; N() = Not detected at limit of detection, or at value shown; L() = Detected, but below limit of determination, or below value shown; * = Usual limits of determinations do not apply due to use of dilution technique or different sample weight; INS = Indicates insufficient sample. All values reported in

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FIELD NO.	TAG NO.	Au	Hg	Cu	Pb				
Dg-1656	BFV313	N(.05)	.02	25	10				
1659	394		.02	25	L(5)				
1668	395		L(.02)	5	L(5)				
1706	396		N(.02)	10	N(5)				
1726	397		L(.02)	10	N(5)				
1745	398		L(.02)	180	L(5)				
1748	399		N(.02)	10	N(5)				
1751	400		L(.02)	10	N(5)				
1782	401		L(.02)	15	35				
1783	402		L(.02)	25	10				
1793	403		.02	30	L(5)				
1878	404		N(.02)	N(5)	N(5)				
1903	405		.02	10	10				
1909	406		L(.02)	5	L(5)				
1918	407		.02	L(5)	10				
1922	408		.04	10	25				
1135	409		L(.02)	L(5)	L(5)				
1997	410		L(.02)	60	5				
2002	411	N(.05)	.02	10	L(5)				
	reference samples	3.5	.28	50	140				153

REMARKS: G = Greater than value shown; H = Interference; - = Not looked for; N() = Not detected at limit of detection, or at value shown; L() = Detected, but below limit of determination, or below value shown; * = Usual limits of determinations do not apply due to use of dilution technique or different sample weight; INS = Indicates insufficient sample. All values reported in

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FIELD NO.	TAG NO.	Au	Hg	Cu	Pb				
Dg-2002-A	BFV 412	N(.05)	.08	20	10				
2004	413		L(.02)	30	10				
2021	414		L(.02)	10	45				
2028	415		.02	10	5				
2033-B	416		L(.02)	L(5)	25				
2061	417		.55	L(5)	15				
2075	418		.02	10	20				
2115	419		.06	25	30				
2116	420		L(.02)	20	10				
2117	421		L(.02)	15	20				
2120	422		N(.02)	15	L(5)				
2121	423		L(.02)	10	5				
2123	424		.02	20	20				
2129	425		.24	15	45				
1687	426		L(.02)	L(5)	L(5)				
2130	427		N(.02)	15	L(5)				
2146	428		N(.02)	15	50				
2149	429		.02	20	20				
2150	430	N(.05)	L(.02)	15	15				
	Reference Samples	.10	.14	120	260				

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REMARKS: G = Greater than value shown; H = Interference; - = Not looked for; N() = Not detected at limit of detection, or at value shown; L() = Detected, but below limit of determination, or below value shown; * = Usual limits of determinations do not apply due to use of dilution technique or different sample weight; INS = Indicates insufficient sample. All values reported in

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FIELD NO.	TAG NO.	Au	Hg	Cu	Pb				
Dg-2152	BFV431	N(.05)	.02	25	15				
2153	432		.8	30	25				
2154	433		.02	20	60				
2155	434		.02	L(5)	L(5)				
2156	435		.02	5	L(5)				
2160	436		.10	15	10				
2160-A	437		.06	20	L(5)				
2162	438		L(.02)	15	N(5)				
2162-A	439		L(.02)	15	L(5)				
2180	440		.12	95	L(5)				
2174	441		.08	90	L(5)				
2175	442		.14	60	140				
2175-A	443		.08	80	65				
2176	444		.02	15	70				
2177	445		.02	30	10				
2178	446		.04	35	L(5)				
2178-A	447		.02	25	60				
2179	448	N(.05)	.22	45	15				
	Reference Samples	.55	5.	310	570				
		#84	#121	#174	#179				

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As AA
Hg Detector } C. L. WHITTINGTON
Cu AA

Completion Date 1-30-73

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FIELD NO.	TAG NO.	As	Hg	Cu					
<u>Dg-231</u>	<u>BFV 464</u>	<u>L(.05)</u>	<u>.60</u>	<u>20</u>					
<u>2191</u>	<u>465</u>	<u>N(.05)</u>	<u>L(.02)</u>	<u>10</u>					
<u>232-C</u>	<u>466</u>		<u>.12</u>	<u>15</u>					
<u>236-A</u>	<u>467</u>		<u>L(.02)</u>	<u>35</u>					
<u>244</u>	<u>468</u>		<u>.02</u>	<u>15</u>					
<u>1354-A</u>	<u>469</u>		<u>N(.02)</u>	<u>10</u>					
<u>1354-B</u>	<u>470</u>		<u>L(.02)</u>	<u>20</u>					
<u>1438</u>	<u>471</u>		<u>L(.02)</u>	<u>220</u>					
<u>1441</u>	<u>472</u>		<u>.06</u>	<u>5</u>					
<u>1450</u>	<u>473</u>		<u>N(.02)</u>	<u>10</u>					
<u>1457-A</u>	<u>474</u>	<u>N(.05)</u>	<u>L(.02)</u>	<u>160</u>					
<u>1457-B</u>	<u>475</u>	<u>L(.05)</u>	<u>L(.02)</u>	<u>150</u>					
<u>2188</u>	<u>476</u>	<u>N(.05)</u>	<u>N(.02)</u>	<u>10</u>					
<u>1497</u>	<u>477</u>		<u>N(.02)</u>	<u>40</u>					
<u>1505</u>	<u>478</u>		<u>L(.02)</u>	<u>10</u>					
<u>1509</u>	<u>479</u>		<u>L(.02)</u>	<u>10</u>					
<u>1510</u>	<u>480</u>		<u>N(.02)</u>	<u>20</u>					
<u>1543</u>	<u>481</u>		<u>L(.02)</u>	<u>20</u>					
<u>1555</u>	<u>482</u>	<u>N(.05)</u>	<u>.02</u>	<u>40</u>					
	<u>Reference Samples</u>	<u>.45</u>	<u>3.</u>	<u>10.</u>					<u>156</u>

REMARKS: G = Greater than value shown; H - Interference; - = Not looked for; N () = Not detected at limit of detection, or at value shown; L () - Detected, but below limit of determination, or below value shown; * - Usual limits of determinations do not apply due to use of dilution technique or different sample weight; INS - Indicates insufficient sample. All values reported in

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FIELD NO.	TAG NO.	As	Hg	Cu					
Dg-2186	BFV 483	N(.05)	N(.02)	10					
1559	484		.02	160					
1576	485		L(.02)	30					
1584	486	N(.05)	N(.02)	L(5)					
1657	487	L(.05)	.04	25					
1689	488	N(.05)	.02	25					
1758	489		.02	20					
1759	490		L(.02)	20					
1962	491		.04	20					
1963	492		.02	15					
1978	493		L(.02)	170					
1996	494		.02	10					
1999	495	N(.05)	.04	210					
2007	496	.30	L(.02)	55					
2008	497	L(.05)	L(.02)	L(5)					
2010	498	N(.05)	L(.02)	L(5)					
2130-A	499	N(.05)	.45	40					
2130-B	500	.05	1.1	15					
2038	501	N(.05)	L(.02)	45					
	Reference Samples	.85	.50	210					157

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FIELD NO.	TAG NO.	As	Hg	Cu					
Dg-2158-A	BFV 502	N(.05)	.04	5					
2159-A	503	3.0	.06	5					
2159-B	504	L(.05)	.02	25					
2161	505	.40	L(.02)	20					
2164	506	.05	L(.02)	L(5)					
2165-A	507	L(.05)	.04	10					
2166	508	N(.05)	L(.02)	L(5)					
2166-A	509	}	L(.02)	L(5)					
2171-A	510	}	.04	120					
2172	511	N(.05)	.04	L(5)					
2174-A	512	.20	.08	15					
2157	513	N(.05)	.02	20					
2159-C	514	.10	L(.02)	10					
2166-C	515	N(.05)	L(.02)	L(5)					
1353-A	516	}	.02	L(5)					
1563	517	}	.04	190					
2033-A	518	N(.05)	.02	50					
2121-A	519	.05	.14	5					
2128	520	N(.05)	L(.02)	N(5)					
	Reference Samples	.10	.28	6200					

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REMARKS: G - Greater than value shown; H - Interference; - = Not looked for; N () = Not detected at limit of detection, or at value shown; L () = Detected, but below limit of determination, or below value shown; * - Usual limits of determinations do not apply due to use of dilution technique or different sample weight; INS = Indicates insufficient sample. All values reported in

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REMARKS: G -- Greater than value shown; H = Interference; - = Not looked for; N() = Not detected at limit of detection, or at value shown; L() = Detected, but below limit of determination, or below value shown; * - Usual limits of determinations do not apply due to use of dilution technique or different sample weight; INS = Indicates insufficient sample. All values reported in

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Au.	AA	} C. L. WHITTINGTON
Hg	Detector	
Cu	AA	

Completion Date 2-1-73

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FIELD NO.	TAG NO.	Au	Hg	Cu					
Dg-2	BFI 522	N(.05)	L(.02)	35					
25	523		L(.02)	30					
48	524		N(.02)	5					
54	525		L(.02)	20					
62	526		N(.02)	L(5)					
63	527			10					
82	528			L(5)					
92	529			10					
106	530		N(.02)	N(5)					
173-B	531		L(.02)	25					
201	532		L(.02)	15					
248	533	N(.05)	N(.02)	10					
248-A-1	534	.05	.02	85					
336-A	535	L(.05)	.08	460					
336-B	536	N(.05)	.02	20					
367	537		N(.02)	20					
373	538		N(.02)	10					
420	539		N(.02)	15					
424	540	N(.05)	.02	5					
	Reference Samples	.05	.55	100					160

REMARKS: G = Greater than value shown; H = Interference; - = Not looked for; N() = Not detected at limit of detection, or at value shown; L() = Detected, but below limit of determination, or below value shown; * = Usual limits of determinations do not apply due to use of dilution technique or different sample weight; INS = Indicates insufficient sample. All values reported in

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FIELD NO.	TAG NO.	Am	Hg	Cu					
Dg-455	BFV 541	N(.05)	L(.02)	20					
472	542		.02	20					
487-A	543		L(.02)	30					
502	544		L(.02)	10					
517-666	545		6.	20					
529	546		.04	10					
535	547		.02	10					
565	548		.02	15					
576	549		.02	15					
590-A	550		.08	45					
590-B	551		.02	20					
608	552		.02	10					
620	553		.04	30					
622	554		.02	20					
656	555		L(.02)	10					
649	556		.02	20					
674	557		.04	20					
506	558	N(.05)	L(.02)	10					
704	559	.50	.02	45					
	Reference Samples	.20	.22	10					161

REMARKS: G = Greater than value shown; H = Interference; - = Not looked for; N() = Not detected at limit of detection, or at value shown; L() = Detected, but below limit of determination, or below value shown; * - Usual limits of determinations do not apply due to use of dilution technique or different sample weight; INS = Indicates insufficient sample. All values reported in

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FIELD NO.	TAG NO.	Aw	Hg	Cu					
Dg-706-A	BFV 560	N(.05)	.02	10					
719	561		L(.02)	5					
721	562		L(.02)	5					
785	563		.06	4800					
816	564		L(.02)	15					
821	565		L(.02)	15					
830	566		.04	5					
851	567		.02	10					
693	568		.02	25					
865	569		L(.02)	L(5)					
874	570		N(.02)	10					
875	571		.02	20					
942	572		L(.02)	20					
1097	573		.04	35					
1108	574		.02	15					
1116	575		.02	10					
1135	576		L(.02)	L(5)					
1135-A	577		.04	L(5)					
1140	578	N(.05)	.02	90					
	Reference Samples	.10	.8	50					162

REMARKS: G = Greater than value shown; H = Interference; - = Not looked for; N() = Not detected at limit of detection, or at value shown; L() = Detected, but below limit of determination, or below value shown; * = Usual limits of determinations do not apply due to use of dilution technique or different sample weight; INS = Indicates insufficient sample. All values reported in

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FIELD NO.	TAG NO.	Aw	Hg	Cu					
Dg-1141	BFV579	N(.05)	.02	5					
1152	580		L(.02)	10					
1168	581		.02	5					
1181	582		.08	L(5)					
1191	583		.02	L(5)					
1199	584		.08	10					
1214	585		.02	L(5)					
1221	586		.04	10					
482-I-2	587		3.	90					
604	588		.02	15					
517-B	589		2.5	85					
491	590		.04	10					
517-A	591		.70	L(5)					
665-666	592		.12	45					
482-I-1	593		.35	450					
482-D	594		.75	10					
482-G	595	N(.05)	4.	15					
656-A	596	L(.05)	.08	130					
1110	597	N(.05)	.06	L(5)					
Reference Samples		.10	3.	180					163

REMARKS: G = Greater than value shown; H = Interference; - = Not looked for; N() = Not detected at limit of detection, or at value shown; L() = Detected, but below limit of determination, or below value shown; * = Usual limits of determinations do not apply due to use of dilution technique or different sample weight; INS = Indicates insufficient sample. All values reported in

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Hy - detection - J.G. Friskin

Completion Date _____

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Submitter: J. G. H. H. H.

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A_n - AA- R.B. CARTER

H_g - detector J.C. Franken

C_n - AA. J. H. H. H.

Completion Date 11-11-72

DATE:

New

FIELD NO.	TAG NO.	A _n	H _g	C _n					
<u>D_g 193</u>	<u>BFV 610</u>	<u>L(.05)</u>	<u>0.04</u>	<u>200</u>					
<u>275</u>	<u>611</u>	<u>L(.05)</u>	<u>0.04</u>	<u>60</u>					
<u>331</u>	<u>612</u>	<u>L(.05)</u>	<u>0.04</u>	<u>80</u>					
<u>482-A</u>	<u>613</u>	<u>L(.05)</u>	<u>0.02</u>	<u>190</u>					
<u>482-B</u>	<u>614</u>	<u>L(.05)</u>	<u>0.02</u>	<u>250</u>					
<u>482-C</u>	<u>615</u>	<u>N(.05)</u>	<u>L(0.02)</u>	<u>240</u>					
<u>482-D</u>	<u>616</u>	<u>N(.05)</u>	<u>0.02</u>	<u>200</u>					
<u>483-A</u>	<u>617</u>	<u>L(.05)</u>	<u>0.02</u>	<u>40</u>					
<u>487-B</u>	<u>618</u>	<u>L(.05)</u>	<u>L(0.02)</u>	<u>300</u>					
<u>514</u>	<u>619</u>	<u>L(.05)</u>	<u>0.02</u>	<u>40</u>					
<u>537-C</u>	<u>620</u>	<u>L(.05)</u>	<u>0.04</u>	<u>70</u>					
<u>668-A</u>	<u>621</u>	<u>N(.05)</u>	<u>0.04</u>	<u>50</u>					
<u>668-B</u>	<u>622</u>	<u>N(.05)</u>	<u>0.24</u>	<u>40</u>					
<u>672-A</u>	<u>623</u>	<u>L(.05)</u>	<u>0.02</u>	<u>40</u>					
<u>672-B</u>	<u>624</u>	<u>L(.05)</u>	<u>0.02</u>	<u>40</u>					
<u>677</u>	<u>625</u>	<u>N(.05)</u>	<u>0.02</u>	<u>200</u>					
<u>740</u>	<u>626</u>	<u>N(.05)</u>	<u>L(0.02)</u>	<u>220</u>					
<u>1272</u>	<u>627</u>	<u>N(.05)</u>	<u>0.02</u>	<u>30</u>					
<u>1274</u>	<u>628</u>	<u>N(.05)</u>	<u>0.14</u>	<u>70</u>					
<u>1287</u>	<u>629</u>	<u>N(.05)</u>	<u>L(0.02)</u>	<u>240</u>					

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ANALYST

DATE:

167

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Submitter: V Gualtieri

HM 3471

ANALYST

ELEMENT AND METHOD

ANALYSIS

11, - defector - JG, Frisken

C. AA J. M. L. 11

Completion Date 10.10.22

DATE:

old

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FIELD SERVICES SECTION

Submitter: J. L. GUALTIERI

HM 3972

ELEMENT AND METHOD

ANALYST

ELEMENT AND METHOD

ANALYST

Au AA
Hg Detector
Cu, Pb AA

C. L. WHITTINGTON

Completion Date 1-18-73

DATE:

FIELD NO.	TAG NO.	Au	Hg	Cu	Pb				
Dg-11-A	BFBV646	N(.05)	.04	10	L(5)				
70-B	647	.10	.04	15	N(5)				
118-B	648	N(.05)	.06	15	1700				
118-C	649	N(.05)	.02	N(5)	L(5)				
141	650	N(.05)	.14	10	130				
142	651	1.0	.10	1400	60				
174	652	N(.05)	.04	5	L(5)				
230	653	N(.05)	.04	5	650				
231-B	654	N(.05)	.04	5	L(5)				
232-A	655	2.5	.10	40	90				
328	656	N(.05)	.02	5	15				
334	657	.40	1.0	100	4600				
357-B	658	N(.05)	.04	5	10				
421	659		L(.02)	5	10				
454	660		.06	L(5)	5				
460-A	661		.02	5	190				
476	662		.10	25	12,000				
477-B	663		L(.02)	10	35				
482-E	664	N(.05)	.04	L(5)	10				
	Reference Samples	.45	3.	1600	100				

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FIELD SERVICES SECTION

Submitter: _____

HM 3972

ELEMENT AND METHOD

ANALYST

ELEMENT AND METHOD

ANALYST

2
2

Completion Date _____

DATE: _____

FIELD NO.	TAG NO.	Au	Hg	Cu	Pb				
Dg-482-H	BFV665	N(.05)	.35	10	10				
483-B-1	666		.06	L(5)	L(5)				
488	667		.02	15	20				
500	668		.02	10	20				
501	669		N(.02)	N(5)	L(5)				
504	670		.02	15	15				
517-B	671		1.5	30	10				
517-C	672		.14	20	20				
519	673		.02	10	5				
520-B	674		.02	L(5)	L(5)				
527-D	675		L(.02)	L(5)	N(5)				
598	676		.06	25	30				
611-A	677		L(.02)	L(5)	5				
611-B	678	N(.05)	.02	N(5)	L(5)				
626-B	679	.05	L(.02)	20	5				
672-C	680	N(.05)	.04	20	10				
673-N	681		L(.02)	N(5)	N(5)				
698	682		.02	L(5)	N(5)				
482-F	683	N(.05)	.8	5	5				
	Reference Samples	3.5	.30	1700	110				170

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