

562

**GEOPHYSICAL AND GEOCHEMICAL REPORT
REPORT ON MAGNETOMETER AND GEOCHEMICAL
SURVEY - COPPER COIN GROUP**

Grand Forks, 2 miles west of Greenwood, 49°118'SW

**by H. H. Shear under supervision of
E. P. Chapman, Jr., P. Eng.**

owner of claims & leases - H. H. Shear & J. M. McLean, Jr.

work done for - Silver Dome Mines Ltd.

Date of work: August 24, 1963 - November 15, 1963

82E/2E

April 1, 1964

TABLE OF CONTENTS

	Page
INTRODUCTION	1
PROPERTY HISTORY	1
GEOLOGIC SETTING	2
PURPOSE & NATURE OF WORK	2
MAGNETOMETER SURVEY	3-13
SOIL SAMPLE ANALYSIS	14
ANALYSIS OF DATA	17
COSTS STATEMENT	18
STATEMENT OF COMPETENCY	A
TO WHOM IT MAY CONCERN	D
LEASE & CLAIMS DIAGRAM	C
<u>Appended (in envelope)</u>	
MAGNETOMETER & SOIL SAMPLE DATA MAP /	

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. 562 MAP

INTRODUCTION

The purpose of this report is to describe a magnetometer survey and geo-chemical survey undertaken on a group of mineral claims and leases in the Greenwood Mining Division. In this report this group of claims and leases shall be referred to as the Copper Coin Group. This work was carried out intermittently from August 24, 1963 to November 15, 1963. The claims and leases involved are:

Copper Coin	1 + 6	- May
Little Dallas	1 + 7	- May
Canada Dry	1 + 8	Aug 9
Houston Fraction :	M-127 and M-128	Aug.

PROPERTY DESCRIPTION

The Copper Coin Group is situated on the headwaters and drainage area of Buckhorn Creek and the extreme northeastern headwaters of Jolly Jack (Kortz) Creek. The center of the group lies 2 miles west of Greenwood, B. C., at the southwestern edge of the old Deadwood Camp.

Relief is moderate with the lowest elevation on the property near 3000 feet and the high near 4500 feet.

Timber on the property consists principally of second growth fir and tamarack and due to recent logging is too small for general use.

The climate is typical of Southern British Columbia with warm summers and cold winters. Snowfall at the property varies up to 4 to 5 feet.

PROPERTY HISTORY

The Deadwood Camp is one of the older mining camps in British Columbia.

It is principally a low grade copper-gold camp and is situated in the larger Boundary District. The Boundary District's production has also been mainly low grade copper-gold ore.

The first prospectors entered the area in the 1880's and there are claims still held that were staked prior to 1892.

The old crown grants comprising the mineral leases included in the Copper Coin Group were all originally staked near the turn of the century. These leases, M-127 and M-128, were acquired March 22, 1963. Claims held by location were recorded from May, 1963 through August, 1963.

GEOLOGIC SETTING

The rocks of the Copper Coin Property belong mainly to the Tertiary Anarchist group. The western edge of the property is overlain by the early Tertiary Midway Volcanics. Jurassic granodiorite intrusions occur nearby to the north and east.

The principal rock types occurring on the property are: an altered limy greenstone commonly carrying minute amounts of disseminated chalcopyrite, a dark blackish-green gabbroic rock type, porphyritic dike rock, quartzite, various volcanics, and granitized rock.

PURPOSE AND NATURE OF WORK

The work on the Copper Coin Group covered in this report was done on the basis of a program recommended by Chapman, Wood & Griswold Ltd. in a report dated June 7, 1963. This report recommended that a magnetometer survey and soil sample survey be conducted in order to attempt to delineate possible targets for bulldozer trenching and diamond drilling.

In accordance with the above recommendation, 37,700 feet of picket lines were cut, 194 soil samples taken and analysed, and 378 stations covered by the magnetometer.

A baseline was cut 5700 feet long, lying N72E. Stations were marked at 100 foot intervals. Station 0 lies at its center with stations out to 29W to the west and 28E to the east. Crosslines, except for 0S, lie on a bearing of N23W-S23E because of an error due to a local erratic magnetic deflection of 5° on the base line. Line 0S lies at right angles to the base line or S18E. Crosslines were cut 600 feet apart with stations marked every 100 feet. All stations are marked with orange flagging and pickets, with the station numbers marked on the pickets. Four crosslines were run to the north 3500 feet long from baseline stations 0, 8W, 16W and 24W. Four crosslines were run to the south 4500 feet long from baseline stations 8W, 0, 8E, and 16E.

The picket lines were worked on from August 24, 1963 through October 7, 1963, and soil samples were taken concurrently. The magnetometer survey was run by H. H. Shear from October 17 through October 19, 1963. Magnetometer calculations were completed by October 27, 1963 by H. H. Shear. Soil sample analysis was done by V. Fast under the direction of Chapman, Wood & Griswold Ltd., and was completed by November 15, 1963.

MAGNETOMETER SURVEY

The instrument used was a McPhar Geophysics M-500 electronic, flux gate type magnetometer. This instrument permits very rapid readings with accuracies in the range of ± 100 gammas without orientation and ± 20 gammas when oriented. The magnetometer was used oriented.

Magnetometer base stations were established by traversing along the base line and looping or checking back within 30 minutes. Crosslines were traversed with check backs within 1 hour. An arbitrary value of 2000 gammas was added to all relative gamma values to eliminate negative readings. The data were recorded and calculated as follows:

Station	Reading	Time	Di	Correct	Difference	R. V. G.	R. V. G.
			Corr.	Reading			+2000
BL28E	-10	9:48	0	0	-10	-10	1990
BL27E	-115	:50	2	-3	-118	-118	1882
BL26E	-325	:52	4	-5	-330	-330	1670
BL25E	-245	:54	6	-8	-253	-253	1747
BL24E	-295	:55	7	-9	-304	-304	1695
BL23E	-280	:57	9	-12	-292	-292	1703
BL22E	-310	:59	11	-15	-325	-325	1675
BL21E	-350	10:01	13	-18	-368	-368	1632
BL20E	-115	:02	14	-19	-134	-134	1866
BL19E	0	:04	16	-22	-22	-22	1978
BL18E	-255	:06	18	-24	-279	-279	1721
BL17E	-300	:07	19	-25	-325	-325	1675
BL16E	-285	:10	22	-30	-315	-315	1685
BL28E	+30	:18	30	-40	-10	-10	1990
BL16E	-265	:31	0	0	-265	0	1685
BL15E	-275	:33	2	0	-275	-10	1675
BL14E	-205	:36	5	-1	-206	+59	1744
BL13E	-155	:38	7	-1	-156	+109	1794
BL12E	-295	:40	9	-2	-298	-33	1692
BL11E	-415	:41	10	-2	-417	-152	1533
BL10E	-390	:43	12	-2	-392	-127	1558
BL 9E	-525	:46	15	-3	-528	-263	1422
BL 8E	-420	:48	17	-3	-423	-158	1527
BL16E	-260	:55	24	-5	-265	0	1685
BL 8E	-400	11:06	0	0	-400	0	1527
BL 7E	-470	:09	3	+3	-467	-67	1460
BL 6E	-295	:10	4	+4	-291	+109	1636
BL 5E	-25	:12	6	+5	-20	+380	1907
BL 4E	+35	:13	7	+6	+41	+441	1968
BL 3E	-20	:15	9	+7	-13	+387	1914
BL 2E	-255	:16	10	+8	-247	+153	1680
DL 1E	-790	:18	12	+9	-781	-381	1146
BL 0	+3775	:21	15	+13	+3788	+4188	5715
BL 1W	+1250	:22	16	+14	+1264	+1664	3191
BL 2W	+110	:24	18	+16	+126	+526	2053
BL 3W	+295	:26	20	+18	-277	+123	1650
BL 8E	-425	:34	28	+25	-400	0	1527
BL 3W	-295	11:46	0	0	-295	0	1650
BL 4W	-345	:48	2	0	-345	-50	1600
BL 5W	-165	:49	3	-1	-166	+129	1779
BL 6W	+20	:51	5	-1	+19	+314	1964
BL 7W	+295	:54	8	-1	+294	+589	2239
BL 8W	+405	:55	9	-2	+403	+698	2348
BL 9W	+225	:57	11	-2	+223	+518	2168
BL10W	+190	:58	12	-2	+188	+483	2133
BL11W	+330	:59	13	-2	+328	+623	2273

Station	Reading	Time	Di Corr.	Correct Reading	Difference	R. V. G.	R. V. G. +2000
BL12W	+405	12:00 14	-3	+402	+697	+347	2347
BL13W	+320	:02 16	-3	+317	+612	+262	2262
BL14W	+290	:04 18	-3	+287	+582	+232	2232
BL 3W	-290	:13 27	-5	-295	0	-350	1690
BL14W	+185	12:33 0	0	+185	0	+232	2232
BL15W	+ 10	:36 3	-4	+ 6	-179	+ 53	2053
BL16W	- 5	:39 6	-8	- 13	-198	+ 34	2034
BL14W	+200	:44 11	-15	+185	0	+232	2232
BL16W	- 35	1:01 0	0	- 35	0	+ 34	2034
BL17W	- 95	:04 3	+2	- 93	- 50	- 24	1976
BL18W	- 93	:06 0	+2	- 91	- 58	- 24	1976
BL19W	-100	:08 7	+3	-147	-112	- 70	1922
BL20W	-168	:09 8	+4	-164	-126	- 92	1900
BL21W	-335	:10 9	+4	-331	-296	-262	1730
BL22W	-330	:12 11	+6	-324	-289	-255	1743
BL23W	-365	:13 12	+6	-359	-320	-290	1710
BL24W	-445	:15 14	+7	-438	-403	-369	1631
BL16W	- 35	:21 20	+10	- 35	0	+ 34	2034
BL25W	-470	:21 10	-5	-475	-35	-400	1690
BL26W	-555	:23 10	-5	-570	-123	-494	1506
BL27W	-945	:25 20	-6	-951	-605	-870	1123
BL28W	-690	:30 23	-7	-697	-252	-621	1379
BL29W	-705	:42 27	-8	-713	-260	-637	1363
BL20W	-435	:45 34	-10	-445	0	-369	1631
24W-1N	-405	:51 2	-1	-406	+ 29	-340	1660
24W-2N	-415	:54 5	-2	-410	+ 17	-332	1630
24W-3N	-375	:56 7	-4	-379	+ 56	-313	1607
24W-4N	-475	:58 9	-5	-480	- 45	-414	1506
24W-5N	-590	:59 10	-5	-595	-160	-529	1471
24W-6N	-620	2:00 11	-6	-626	-191	-500	1440
24W-7N	-520	:02 13	-7	-527	- 92	-461	1530
24W-8N	-645	:04 15	-6	-651	-210	-567	1413
24W-9N	-700	:06 17	-9	-709	-274	-643	1337
24W-10N	-525	:07 18	-10	-535	-100	-469	1531
24W-11N	-520	:09 20	-11	-531	- 94	-465	1535
24W-12N	-465	:11 22	-12	-477	- 62	-411	1609
24W-13N	-460	:12 23	-12	-472	- 57	-406	1594
24W-14N	-415	:14 25	-13	-428	- 7	-376	1626
24W-15N	-755	:15 26	-14	-769	-334	-703	1297
24W-16N	-865	:16 27	-15	-879	-444	-813	1187
24W-17N	-1045	:18 29	-15	-1060	-625	-994	1006
24W-18N	-585	:20 31	-16	-601	-166	-535	1465
24W-19N	-20	:22 33	-17	-37	+398	+29	2029
24W-20N	-90	:24 35	-18	-108	+327	-42	1960
24W-21N	-75	:26 37	-19	-94	+341	-28	1972
24W-22N	+30	:27 38	-19	+11	+446	+77	2077
24W-23N	+370	:28 39	-20	+350	+785	+416	2416
24W-24N	+330	:29 40	-21	+309	+744	+275	2375
24W-25N	+630	:31 42	-22	+608	+1043	+674	2674
BL14W	-405	2:45 56	-30	-435	0	-369	1631

Station	Reading	Time	DI Corr.	Correct Reading	Difference	R. V. G. R. V. G. +2000	R. V. G. +2000
BL16W	-35	2:59 0	0	+35	0	+34	2034
GL16W-1N	+235	3:01 2	0	+235	+270	+304	2304
2	+50	1:03 4	-1	+49	+84	+110	2118
3	+45	1:05 6	-1	+44	+79	+113	2113
4	+125	1:06 7	-1	+124	+159	+193	2193
5	+20	1:08 9	-2	+18	+53	+87	2087
6	-5	1:10 11	-2	-7	+28	+62	2052
7	-120	1:11 12	-2	-122	-87	-53	1947
8	0	1:12 13	-2	-2	+33	+67	2-67
9	+35	1:13 14	-3	+32	+67	+101	2101
10	+35	1:14 15	-3	+32	+67	+101	2101
11	-120	1:15 16	-3	-123	-88	-54	1946
12	-210	1:16 17	-3	-213	-178	-144	1856
13	-200	1:17 18	-3	-203	-168	-134	1836
14	-220	1:18 19	-4	-224	-189	-155	1845
15	-250	1:20 21	-4	-254	-219	-185	1815
16	-265	1:21 22	-4	-269	-234	-200	1800
17	-295	1:22 23	-4	-299	-264	-230	1770
18	-365	1:23 24	-4	-369	-334	-300	1700
19	-335	1:24 25	-5	-340	-305	-271	1729
20	-315	1:25 26	-5	-320	-285	-251	1749
21	-370	1:26 27	-5	-375	-340	-306	1694
22	-405	1:28 29	-5	-400	-375	-341	1659
23	-345	1:29 30	-6	-351	-316	-282	1710
24	-455	1:31 32	-6	-461	-426	-392	1608
25	-440	1:32 34	-6	-446	-411	-377	1623
26	-440	1:34 35	-6	-446	-411	-377	1623
27	-505	1:36 37	-7	-512	-477	-443	1557
GL16W28N	-490	1:37 38	-7	-497	-462	-428	1572
BL16W	-25	1:38 34	-10	-35	0	+34	2034
GL16W28N	-445	4:18 0	0	-445	0	-428	1572
29N	-540	1:20 2	+2	-538	-93	-521	1479
30	-475	1:21 3	+3	-472	-27	-455	1945
31	-395	1:23 5	+5	-390	+55	-373	1627
32	-560	1:25 7	+7	-553	+108	-536	1464
33	-710	1:27 9	+9	-701	+286	-684	1316
34	+115	1:29 11	+10	-125	+320	-108	1092
35	+130	1:31 13	+13	+143	+588	+160	2160
16W-28N	-465	4:40 22	+20	-445	0	-428	1572
24W-25N	+705	5:01 0	0	+705	0	+674	2674
26N	-740	1:04 3	+7	-733	-1438	-754	1236
27	-1020	1:06 5	+11	-1009	-1714	-1040	960
28	+1035	1:08 7	+15	+1050	+345	+1019	3019
29	-1140	1:10 9	+20	-1120	-1835	-1161	839
30	+295	1:12 11	+25	+320	-585	+289	2289
31	-680	1:14 13	+29	-651	-1356	-682	1318
32	+120	1:16 15	+33	+153	-552	+122	2122
33	+935	1:17 16	+35	+970	+265	+939	2939
34	+495	1:19 18	+40	+535	-170	+504	2504
35	-305	1:21 20	+45	-260	-965	-291	1709
24W-25N	+615	5:41 40	+90	+705	0	+674	2674

Station	Reading	Time	Di Corr.	Correct Reading	Difference	R. V. G.	R. V. G. 42000
BLSW	+385	1:01 0		+385	0	+348	2348
GLSW-IN	+155	:04 3	+1	+156	-229	+119	2119
2N	-50	:06 5	+1	+49	-436	+86	1914
3	-155	:08 7	+2	-153	-538	+190	1810
4	-260	:10 8	+2	-258	-643	+295	1705
5	-185	:11 10	+2	-183	-568	+220	1780
6	-245	:12 11	+2	-243	-623	+280	1720
7	+40	:14 13	+3	+43	-342	+6	2005
8	-95	:15 14	+3	-132	-517	+169	1831
9	-225	:17 16	+3	-222	-607	+259	1741
10	-305	:19 18	+4	-301	-686	+398	1662
11	-325	:21 20	+4	-321	-706	+358	1642
12	-285	:22 21	+4	-281	-766	+418	1582
13	-210	:23 22	+5	-205	-590	+242	1758
14	-170	:24 23	+5	-165	-550	+202	1798
15	-330	:26 25	+5	-325	-710	+362	1638
16	-590	:28 27	+5	-585	-970	+622	1378
17	-265	:30 29	+6	-259	-644	+296	1704
18	-515	:31 30	+6	-509	-894	+546	1454
19	-385	:33 22	+6	-379	-764	+416	1584
20	-230	:35 34	+7	-223	-608	+260	1740
BLSW	+375	:51 50	+10	+385	0	+348	2348
		0/	0/	/375	/0		
GLSW-1B	+255	:55 4	+1	+256	-119	+229	2229
2B	+215	:57 6	+1	+216	-159	+189	2189
3	+105	1:58 7	+1	+106	-269	+79	2079
4	+15	2:00 9	+2	+17	-358	+10	1990
5	-70	:02 11	+2	-68	-643	+95	1905
6	-85	:03 12	+3	-82	-457	+109	1891
7	-95	:05 14	+3	-92	-467	+119	1881
8	-50	:07 16	+4	-46	-621	+73	1927
9	-165	:09 18	+4	-161	-536	+188	1818
10	-70	:11 20	+5	-65	-440	+92	1908
11	-190	:13 22	+5	-185	-568	+212	1788
12	-220	:15 24	+5	-215	-690	+242	1758
13	-235	:17 26	+6	-229	-604	+256	1744
14	-280	:19 28	+6	-274	-640	+301	1699
15	-335	:21 30	+7	-328	-703	+355	1645
16	-200	:22 31	+7	-193	-568	+220	1708
17	-10	:24 33	+8	-8	-377	+29	1971
18	+70	:25 34	+8	+78	-297	+51	2081
19	-215	:26 35	+8	-207	-552	+234	1765
20	-195	:28 37	+8	-187	-662	+214	1785
21	-115	:29 38	+9	-106	-481	+133	1867
22	-200	:31 40	+9	-191	-566	+218	1782
23	-160	:33 42	+9	-151	-526	+178	1822
24	-205	:34 43	+10	-195	-670	+222	1778
25	-75	:36 45	+10	-65	-440	+92	1902
BLSW	+360	2:57 66	+15	+375	0	+348	2348

Station	Reading	Time	DI Corr.	Correct Reading	Difference	R. V. G.	R. V. G. +2000
BL 3W	-305	3:05			0	-350	1650
CLO-IN	-235	3:09			+70	-280	1720
2	-295	:11			+10	-340	1660
3	-140	:12			+163	-185	1815
4	+40	:14			+343	-5	1995
5	-140	:15			+165	-185	1815
6	-195	:17			+110	-240	1760
7	-435	:19			-130	-480	1520
8	-535	:20			-230	-580	1420
9	-490	:22			-185	-535	1465
10	-345	:24			-40	-390	1610
11	-335	:26			-30	-380	1620
12	-375	:27			-70	-420	1580
13	-365	:28			-60	-410	1590
14	-445	:30			-140	-490	1510
15	-415	:31			-110	-460	1540
16	-385	:33			-80	-430	1570
17	-405	:34			-100	-450	1550
18	+145	:35			+450	+100	2100
19	0	:36			+205	-45	1955
20	-80	:38			+225	-125	1875
BL 3W	-305	4:01			0	-350	1650
BL 3W	-305	4:01			0	-350	1650
CLO - 1S	+490	:07			+795	+445	2445
2S	+100	:09			+405	+55	2055
3S	-195	:10			+150	-200	1800
4S	+285	:12			+590	+240	2240
BL 3W	-305	4:17			0		
CLW20N	-280	4:57	0	0	-280	-260	1740
21N	-255	4:59	2	0	-255	+25	1765
22	-160	5:00	3	+2	-158	+122	1852
23	-255	:02	5	+2	-253	+27	1767
24	-140	:03	6	+3	-137	+143	1883
25	-190	:04	7	+3	-187	+93	1833
26	-240	:05	8	+4	-236	+44	1784
27	-265	:07	10	+5	-260	+20	1760
28	-210	:08	11	+5	-205	+75	1815
29	-105	:09	12	+5	-100	+180	1920
30	-270	:11	14	+6	-264	+16	1756
31	-350	:12	15	+6	-344	-64	1676
32	-345	:14	17	+7	-338	-58	1682
33	-365	:15	18	+8	-357	-77	1663
34	-405	:16	19	+8	-397	-117	1623
35	-345	:18	21	+9	-336	-56	1684
CLW-20N	-295	:32	35	+15	-280	0	1740

Station	Reading	Time	DI Corr.	Correct Reading	Difference	R. V. G.	S. V. G. 42000
CLO-20N	+75	5:46	0	+75	0	-125	1075
21N	+215	:47	+0	+215	-140	-265	1795
22	+100	:49	+5	+105	+190	+55	2095
23	+250	:50	+5	+255	-170	-295	1705
24	+275	:51	+5	+270	+195	-320	1680
25	+305	:52	+10	+295	-220	-345	1655
26	+315	:54	+10	+305	+290	-395	1645
27	+180	:55	+15	+165	+90	-215	1705
28	+130	:57	+15	+115	+40	-165	1895
29	+105	:58	+15	+90	+15	-140	1860
30	+145	5:59	+20	+125	+50	+175	1825
31	+220	6:00	+20	+200	+225	-390	1660
32	+360	:02	+20	+340	-265	-390	1610
33	+405	:03	+25	+380	-305	-430	1570
34	+325	:04	+25	+300	-225	-390	1660
35	+300	:05	+25	+275	-200	-325	1675
CLO-20W	+115	:14	+40	+75	0	-125	1075

Oct. 19, 1963 - field

CLO-45	+185	10:25	0	+185	0	+240	2240
30	+155	:28	-5	+150	-35	+205	2205
6	+455	:31	-5	+450	+265	+905	2900
7	+405	:32	-5	+400	+215	+455	2305
8	-5	:34	-10	-15	-200	+240	2440
9	-65	:36	-10	-75	-260	-20	1980
10	+75	:38	-10	+65	-120	+120	2120
11	+120	:40	-10	+110	+315	+75	1925
14	+155	:41	-15	+140	-365	+110	1605

as marked on ground

12	-160	:42	-15	-175	-360	+120	1000
13	-245	:43	+15	-260	-435	+205	1795
14	-225	:44	-15	-240	-425	+185	1085
15	-305	:45	-20	-320	-510	+270	1730
16	-335	:47	-20	-355	-540	+300	1700
17	+445	:48	-20	+465	-690	-610	1590
18	+185	:49	-20	+205	-395	-150	1650
19	+115	:50	-25	+140	-525	-85	1915
20	+320	:52	-25	+345	-530	-290	1710
21	+310	:54	-25	+335	-520	-250	1730
22	-305	:56	-30	-335	-520	-280	1730
23	-155	:57	-30	-185	-370	-130	1670
24	+1040	:59	-30	+1010	+825	+1005	2005
25	+190	11:01	-35	+155	-30	+210	2240

actually 2600'S

CLO-4S	+235	11:20	55	-50	+185	p	+240	2240
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Station	Reading	Time	DI Corr.	Correct Reading	Difference	H. V. G.	B. V. G. 02000	
CLW-250	-95	No check back			0	-50	1910	
26	-315			-220	-310	1690		
27	-315			-220	-310	1690		
28	-210			-115	-205	1790		
29	-395			-300	-390	1610		
30	-395			-300	-390	1610		
31	-355			-270	-360	1660		
32	-350			-255	-345	1650		
33	-260			-165	-255	1740		
34	-495			-400	-490	1610		
35	-245			-150	-240	1750		
36	-300			-205	-295	1700		
37	-290			-195	-285	1710		
38	-295			-200	-290	1710		
39	-305			-210	-300	1700		
40	-265			-190	-260	1720		
41	-310				-305	1690		
42	-160				-155	1800		
43	-145				-140	1800		
44	-120				-115	1800		
45	-160				-155	1840		
GLO-253	+135	12:54	0	0	+135	0	+210	2210
						actually 2490's		
26	+3000	15:59	5	-10	+3540	+3400	+2615	2615
27	+400	1:01	7	-15	+390	+290	+400	2630
28	-470	1:03	0	-20	-490	-620	-410	1500
29	+340	1:05	11	-25	+315	+180	+390	2390
GLO-258	+175	1:11	17	-40	+135	0	+210	2210
GLO-265	+300	no check back				+390	2990	
30	-345				-600	-260	1700	
31	-245					-160	1870	
32	-325					-240	1760	
33	-325					-240	1760	
34	-340					-255	1740	
35	-250					-160	1835	
36	-240					-150	1840	
37	-300					-220	1760	
38	-245					-170	1850	
39	-340					-255	1740	
40	-215					-130	1870	
41	-260					-190	1800	
42	-280					-195	1800	
43	-260					-180	1820	
44	-215					-130	1870	
						actually 4590's		
GR-250	-170	2:00	0	0	-170	+210	-255	1735
26	-65	2:10	1	0	-65	+310	+160	1840
23	-305	2:11	2	0	-305	+75	-400	1660
22	-175	2:13	4	0	-175	+200	-270	1730
21	-200	2:14	5	0	-200	+180	-295	1700
20	-290	2:15	6	0	-290	+150	-325	1670
19	-325	2:16	7	0	-325	+55	-420	1600
18	+275	2:18	9	+5	-270	+110	-365	1630
17	-195	2:20	11	+5	-190	+160	-285	1715

Station	Reading	Time	Di Corr.	Correct Reading	Difference	R. V. G. R. V. G. +2000	R. V. G. +2000
16	-150	:21 12	+5	-145	+235	-240	1760
15	-135	:22 13	+5	-130	+250	-225	1775
14	-195	:23 14	+5	-190	+190	-285	1715
13	-225	:25 16	+5	-220	+160	-315	1685
12	-345	:26 17	+5	-340	+40	-435	1665
11	-150	:28 19	+5	-145	+235	-240	1760
10	-15	:29 20	+5	-10	+370	-105	1895
9	+595	:30 21	+5	+600	+980	+505	2505
8	+325	:32 23	+10	+335	+715	+240	2240
7	-60	:34 25	+10	-50	+330	-145	1855
6	-280	:35 26	+10	-270	+110	-365	1635
5	-225	:37 28	+10	-215	+165	-310	1690
4	-250	:38 29	+10	-240	+140	-335	1665
3	-270	:40 31	+10	-260	+120	-355	1645
2	-375	:41 32	+10	-365	+15	-460	1640
1	-330	:43 34	+10	-320	+50	-415	1685
6E	-390	:44 35	+10	-380	0	-475	1525
8E-255	-190	3:09 60	+20	-170	+210	-265	1795
8E-255	-185	No check back			0	-265	1735
26	-170				+15	-250	1750
27	-175				+5	-260	1740
28	-130				+55	-210	1790
29	-195				-10	-275	1725
30	-235				-50	-315	1685
31	-270				-85	-350	1650
32	-205				-20	-285	1715
33	-150				+35	-230	1770
34	-200				-16	-280	1720
35	-125				+20	-205	1795
36	-185				0	-265	1735
37	-185				0	-265	1735
38	-145				+40	-225	1775
39	-165				+20	-245	1755
40	-165				+20	-245	1755
41	-175				+10	-255	1745
42	-215				-40	-305	1695
43	-205				-20	-285	1715
44	-85				+100	-165	1835
45	-450				-265	-530	1470
CL16E-255	-240	4:10 0	0	-240	0	-315	1685
249	-230	:11 1	0	-230	+10	-305	1695
23	-220	:12 2	0	-220	+20	-295	1705
22	-255	:13 3	0	-255	-15	-330	1670
21	-215	:15 5	0	-215	+25	-290	1710
20	-310	:16 6	+5	-305	-65	-380	1620
19	-340	:18 8	+5	-335	-95	-410	1590
18	-195	:19 9	+5	-190	+50	-265	1735
17	-265	:20 10	+5	-260	-20	-335	1665
16	-190	:22 12	+5	-185	+65	-250	1750
		One station left out - 15-18					
14	-205	:23 13	+5	-200	+40	-275	1725
13	-210	:24 14	+5	-205	+35	-280	1720
12	-255	:26 16	+10	-245	-5	-320	1680
11	-230	:27 17	+10	-220	+20	-295	1705
10	-235	:28 18	+10	-225	+15	-300	1700

Station	Reading	Time	Di Corr.	Correct Reading	Difference	R. V. G.	R. V. G. +2000
CL16E-105	-235	:28 18	+10	-225	+15	-300	1700
9	-230	:29 19	+10	-220	+20	-295	1705
8	-270	:30 20	+10	-260	-20	-335	1665
7	-190	:32 22	+10	-180	+60	-255	1745
6	-250	:33 27	+10	-240	0	-315	1685
5	-190	:34 29	+10	-180	+60	-255	1745
4	-80	:35 28	+10	-70	+170	-145	1855
3	-120	:37 27	+15	-105	+135	-180	1820
2	-95	:38 28	+15	-80	+160	-155	1845
1	-115	:39 29	+15	-100	+90	-225	1775
BL16E	-255	:40 30	+15	-240	0	-315	1685
16E-25S	-270	8:10 60	+30	-240	-30	-315	1685
CL16E-25S	-270				0	-315	1685
26	-345				-75	-390	1610
27	-375				-105	-420	1580
28	-195				+75	-240	1760
29	-235	no			+35	-280	1720
30	-275				-5	-320	1680
31	-265	need			+5	-310	1690
32	-255				+5	-310	1690
33	-235	to			+35	-280	1720
34	-195				+75	-240	1760
35	-205	complete			+65	-250	1750
36	-220				+50	-265	1735
37	-105	di			+165	-150	1890
38	-145				+125	-190	1810
39	-265	corr.			+5	-310	1690
40	-285				-15	-330	1670
41	-200				+70	-245	1755
42	-210				+60	-255	1745
43	-100				+170	-145	1855
44	-185				+85	-230	1770
45	-190				+80	-235	1765
CL16E-25S	-270				0	-315	1685

SOIL SAMPLE ANALYSIS

A cold extraction method for total heavy metals, copper, lead and zinc in the soil samples was used. Results were recorded in parts per million of total heavy metals in the samples.

Sample Preparation - Soil samples are dried on a hot plate and a portion lightly crushed to break down the soil structure. The crushed soil is then screened to -80 mesh and the oversize discarded. The -80 mesh material is stored in a sample envelope until required.

Reagent Preparation - A dithizone solution is prepared as follows: Weigh out 0.05 gms. of dithizone and transfer it quantitatively into a graduated cylinder. Moisten the dark green solid with 3-4 drops of acetone and dissolve the mixture in 500 ml. of toluene. This stock solution (0.01%) should be stored away from heat and light. To prepare the working solution (0.001%) dilute 10 ml. of the stock to 100 ml. with toluene.

A buffer solution is prepared as follows: Dissolve 25 gms. of ammonium citrate dibasic and 5 gms. of hydroxylamine hydrochloride in 300 ml. of de-ionized water. Add concentrated ammonium hydroxide until the pH of the solution is 8.5. The solution is then extracted with successive 5 ml. portions of dithizone stock solution until the dithizone remains green. The excess dithizone is removed by extraction with carbon tetrachloride. The volume, then, is made up to 500 ml. with de-ionized water.

A standard solution is prepared as follows: Fifty mgs. of zinc metal is dissolved in 5-7 ml. of concentrated hydrochloric acid. Dilute the solution to 500 ml. in a graduated cylinder using de-ionized water. Five ml. of this solution is then diluted to 100 ml. to give a solution containing 5 micrograms of zinc per ml.

Method - A 0.2 gms portion of the -80 mesh soil sample is weighed into a pyrex test tube. Add 5.0 ml. of buffer solution followed by 2.0 ml. of 0.001% dithizone working solution. Close the tube and shake for 30 seconds. The resulting color in the organic phase is then compared with a series of standards prepared as follows:

Alliquots of the standard zinc solution are taken to give 0, 0.5, 1.0, 1.5, 2.0, 2.5, 3.0, 3.5, 4.0 and 4.5 micrograms of zinc respectively (To prepare a standard containing 2.5 micrograms of zinc per ml. take 1 ml. of the standard solution and add 1 ml. of de-ionized water to it.) These are then treated as for the soil samples except that 5.0 ml. of the 0.001% dithizone working solution is used. A range of color in the organic phase is obtained from green through blue to red. The color of the soil sample may be beyond the range covered by the standards. In this case add more dithizone and shake the sample for 5 seconds. This procedure is repeated until the sample color can be compared with the standards. If more than 10 ml. of dithizone is required (i.e., sample contains more than 50 ppm THM) alter the procedure by preparing standards ten times as concentrated and use dithizone 0.01% stock solution. Follow the same procedure otherwise.

Then ppm heavy metal (expressed as zinc) = volume of dithizone used x micrograms of zinc in matching standard.

Results - Soil samples were taken every 200 feet along the base line and cross lines. Results of the analysis are as follows:

Station	ppm THM	Station	ppm THM	Station	ppm THM	Station	ppm THM
24W-1N	0	16W-1N	0	8W-1N	0	0-1N	0
24W-3N	14	16W-3N	0	8W-3N	0	0-3N	4
24W-5N	4	16W-5N	0	8W-5N	0	0-5N	4
24W-7N	0	16W-7N	0	8W-7N	0	0-7N	0
24W-9N	0	16W-9N	4	8W-9N	4	0-9N	0
24W-11N	0	16W-11N	0	8W-11N	4	0-11N	0
24W-13N	0	16W-13N	4	8W-13N	0	0-13N	4
24W-15N	0	16W-15N	4	8W-15N	10	0-15N	0
24W-17N	0	16W-17N	0	8W-17N	4	0-17N	0
24W-19N	0	16W-19N	0	8W-19N	0	0-19N	4
24W-21N	0	16W-21N	0	8W-21N	0	0-21N	4
24W-23N	0	16W-23N	0	8W-23N	0	0-23N	4
24W-25N	0	16W-25N	0	8W-25N	4	0-25N	0
24W-27N	4	16W-27N	0	8W-27N	0	0-27N	0
24W-29N	0	16W-29N	0	8W-29N	4	0-29N	4
24W-31N	4	16W-31N	0	8W-31N	14	0-31N	0
24W-33N	0	16W-33N	0	8W-33N	0	0-33N	0
24W-35N	0	16W-35N	0	8W-35N	0	0-35N	0

Station	ppm THM	Station	ppm THM	Station	ppm THM	Station	ppm THM	Station	ppm THM
BL28E	0	8W-1S	0	0-1S	4	8E-1S	0	16E-1S	0
BL26E	4	8W-3S	0	0-3S	14	8E-3S	4	16E-3S	14
BL24E	0	8W-5S	0	0-5S	4	8E-5S	0	16E-5S	0
BL22E	0	8W-7S	0	0-7S	10	8E-7S	0	16E-7S	0
BL20E	0	8W-9S	4	0-9S	4	8E-9S	0	16E-9S	0
BL18E	0	8W-11S	4	0-11S	4	8E-11S	4	16E-11S	0
BL16E	4	8W-13S	14	0-13S	0	8E-13S	4	16E-13S	4
BL14E	0	8W-15S	4	0-15S	4	8E-15S	4	16E-15S	0
BL12E	0	8W-17S	0	0-17S	0	8E-17S	0	16E-17S	4
BL10E	0	8W-19S	10	0-19S	0	8E-19S	20	16E-19S	4
BL8E	0	8W-21S	0	0-21S	0	8E-21S	0	16E-21S	0
BL6E	0	8W-23S	4	0-23S	0	8E-23S	20	16E-23S	0
BL4E	0	8W-25S	0	0-25S	0	8E-25S	0	16E-25S	0
BL2E	0	8W-27S	10	0-27S	4	8E-27S	0	16E-27S	0
BL0	4	8W-29S	4	0-29S	4	8E-29S	0	16E-29S	0
BL3W	14	8W-31S	0	0-31S	4	8E-31S	4	16E-31S	0
BL4W	0	8W-33S	0	0-33S	0	8E-33S	14	16E-33S	0
BL6W	4	8W-35S	4	0-35S	0	8E-35S	10	16E-35S	0
BL8W	0	8W-37S	0	0-37S	0	8E-37S	4	16E-37S	0
BL10W	4	8W-39S	0	0-39S	0	8E-39S	0	16E-39S	0
BL12W	0	8W-41S	0	0-41S	4	8E-41S	0	16E-41S	0
BL14W	0	8W-43S	0	0-43S	0	8E-43S	4	16E-43S	0
BL16W	4	8W-45S	4	0-45S	4	8E-45S	0	16E-45S	4
BL18W	0								
BL20W	4								
BL22W	4								
BL24W	0								
BL26W	10								
BL28W	0								

ANALYSIS OF DATA

The magnetometer and soil sample work indicate three general areas of interest.

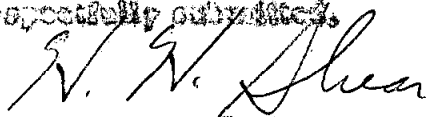
The line from 15N to 39N on line 24V and is magnetically anomalous only. This area is overlain by Tertiary volcanics, which are much younger than the metamorphosis of the district. Therefore, as expected, no anomalous soil sample results were obtained. No more soil sample work is warranted in this area. More magnetometer work is, however, justified and is necessary in order to evaluate and delineate this anomaly.

A second magnetic anomaly occurs on line 0 from 29S to 35S. Also, two areas with anomalous soil sample results occur on line 8E from 19S to 23S and from 31E to 37E. These soil sample anomalies are especially interesting since they lie down-dip from the magnetic anomaly on line 0. Therefore, more work, both soil sampling and magnetometer, is warranted on this area.

The third and largest anomalous area coincides roughly with the original area of interest which was sampled and reported on by Chapman, Wood & Griswold 186. This anomaly is only very roughly delineated but appears to be extensive. It is of a low order, about 500 gammas, but could be over 2000 feet long and as much as 500 feet wide. Within this anomaly one station, 0 on the base line, was over 4000 gammas above background. Anomalous soil samples were also obtained in this area. Complicating the picture is the fact that interesting showings appear to lie outside the mag anomaly. This area also warrants more work.

A map showing the location of all work done accompanies this report. It also shows the claims involved and will be found in the folder on the back cover. Also at the end of this report, a claims diagram will be found.

Respectfully submitted,



H. H. Shear

COSTS STATEMENT

Labor on Line Cutting

Ren Meyer + Aug. 24-25, 1963 @ \$16/day	\$32.00
Ren Lemp + Aug. 27-30, 1963 @ \$16/day	64.00
Bob Sowden + Aug. 27-30, 1963 @ \$16/day	64.00
P. Guthro (on contract) Sept-Oct 7, 1963	415.00

Foreman - Line Cutting and taking soil samples

John MacLean + Aug. 23-Oct. 7, 1963 @ \$500/mo. 1 1/2 mo.	750.00
--	--------

Engineer in Charge

H. H. Shear + Aug-Nov. 15, 1963 @ \$700/mo - 3/4 mo.	525.00
Report - 1 week - March, 1964	175.00

Consultants

Chapman, Wood & Griswold Ltd.	200.00
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Supplies

Chain saw rental + Aug. 23-30, 1963	49.00
Magnetometer rental + Oct. 16-20, 1963	50.00
Misc. (flagging, Brunton compass, measuring chain, etc)	130.00

Soil Sample Analysis

63.33

\$2,518.13

*Declared before me at the City
of Vancouver, in the
Province of British Columbia, this
2nd day of April, 1964. A.D.*

H. H. Shear

Jill Turner
Sub-mining Recorder
16.

STATEMENT OF COMPETENCY

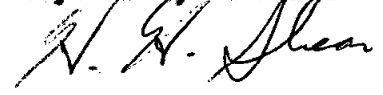
I, H. H. Shear, of 2767 Crescentview Drive, North Vancouver, B. C., do state that I supervised directly all work described in this report. I personally ran the magnetometer and calculated the results.

I received the two following degrees from the University of Arizona at Tucson, Arizona: B.S. Geological Engineering, May 1959 and B.S. Mining Engineering, January 1960.

I am a junior member of the Association of Professional Engineers of British Columbia.

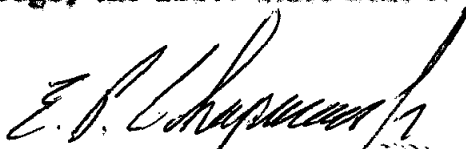
I have been engaged in mining exploration for the past four years including experience in magnetometer and soil sample surveys and have received training under Chapman, Wood & Griswold Ltd. in both.

Respectfully submitted

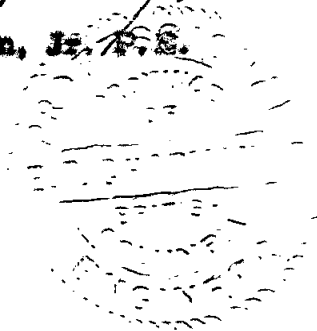


H. H. Shear

I attest that, from my own personal knowledge, the above statement is complete and factual.



E. P. Chapman, Jr., P. E.



CHAPMAN, WOOD AND GRISWOLD LTD.

MINING ENGINEERS AND GEOLOGISTS

133 EAST 14TH STREET

NORTH VANCOUVER, BRITISH COLUMBIA

E. P. CHAPMAN, JR.
JOHN A. WOOD
G. R. GRISWOLD

TELEPHONE: 987-9371
CABLE ADDRESS: CHAPWOLD

TO WHOM IT MAY CONCERN:

This is to state that Victor East, Keremees, B. C., was employed by our firm on a temporary basis during the period September 1 to November 25, 1965 in the capacity of soil sampler and geochemical analyst-technician.

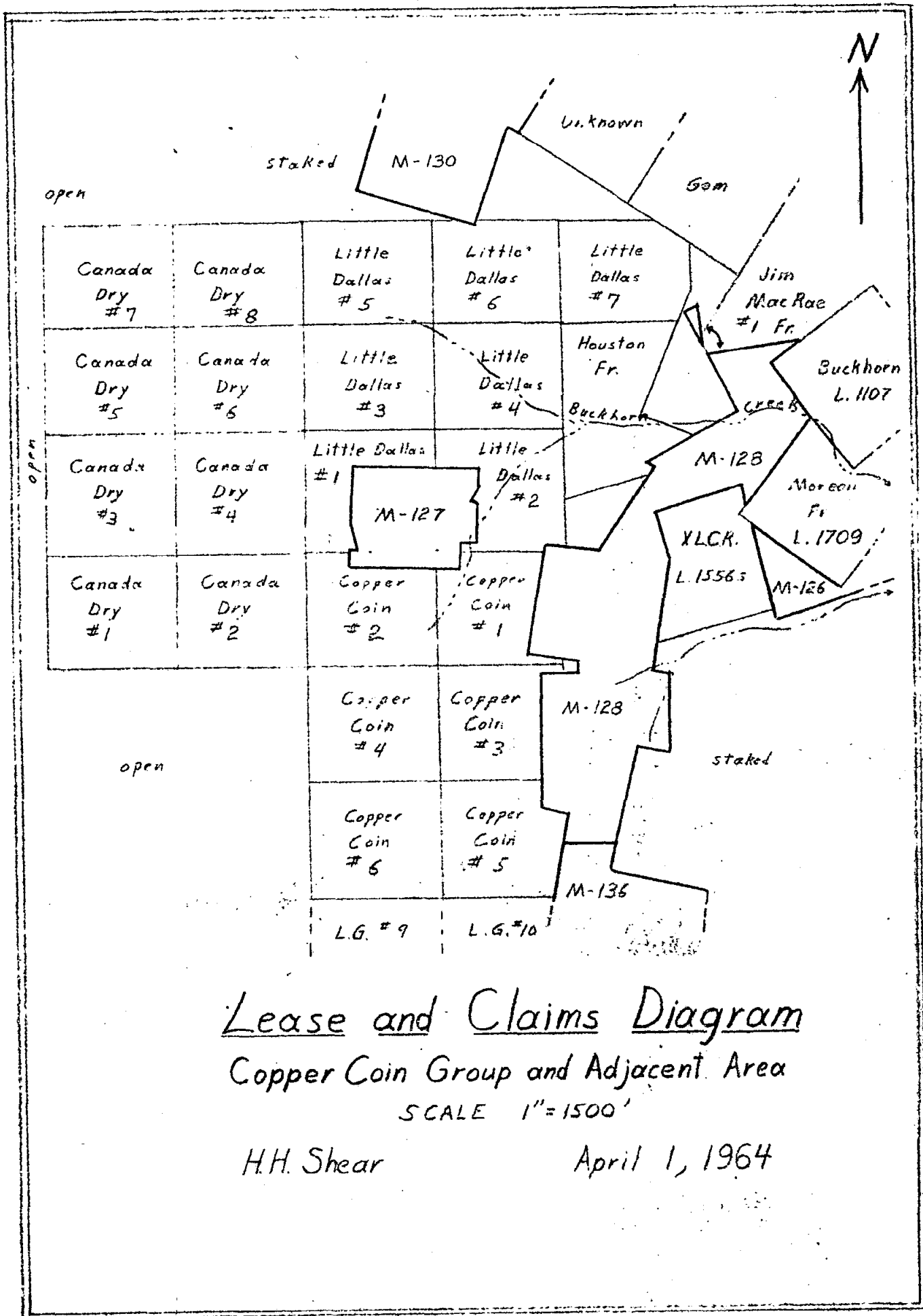
Mr. East was trained by us in procedures for field and composite analysis of soil and silt samples for cold extractable copper, lead and zinc using toluene extractant and dithionite indicator.

It is our belief that all of the sample determinations reported by Mr. East were conducted in accordance with procedures accepted in the mineral exploration industry, and with a high standard of accuracy.

Respectfully submitted,

CHAPMAN, WOOD & GRISWOLD LTD.

John A. Wood
John A. Wood
Vice-President



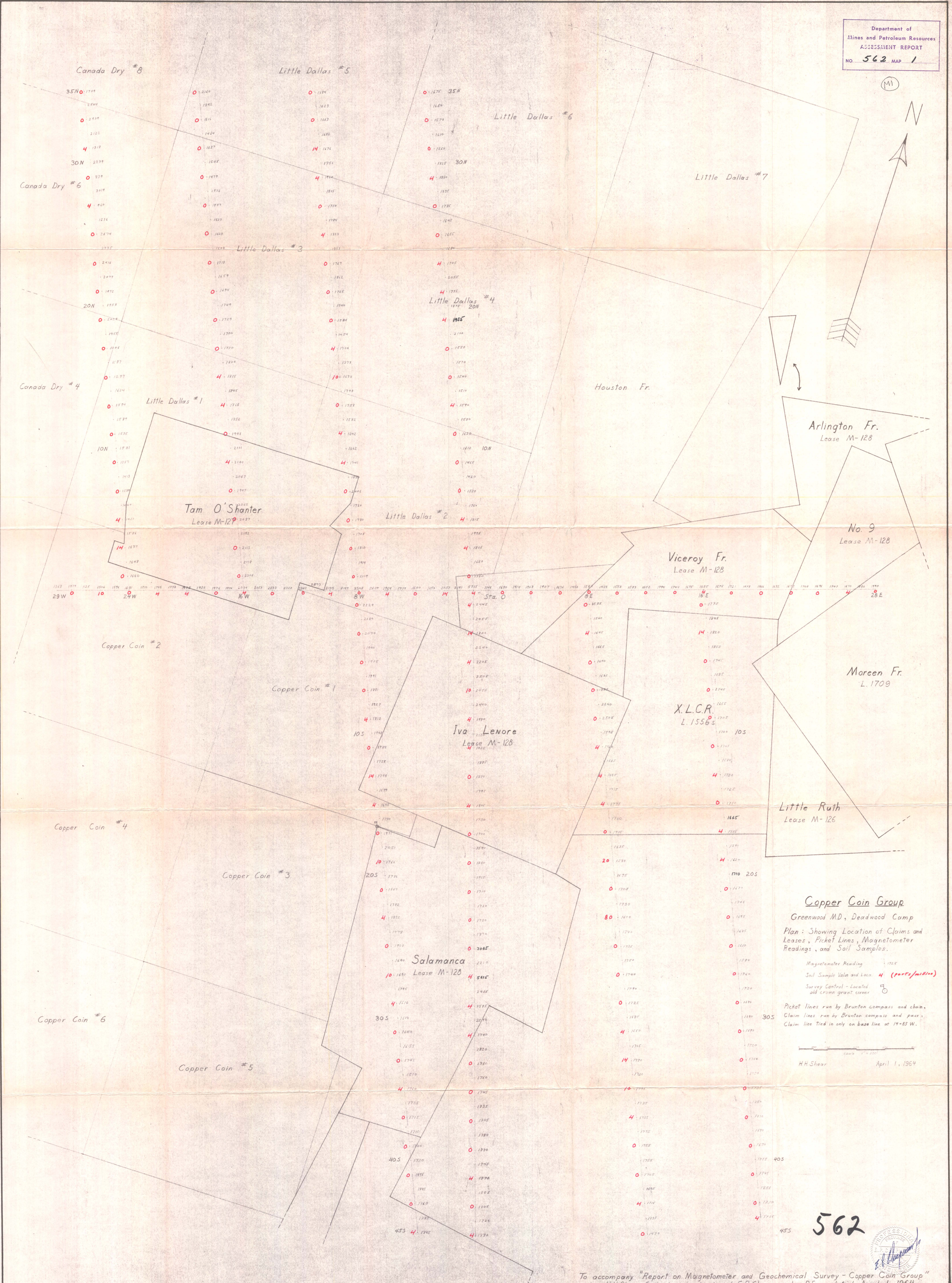
Lease and Claims Diagram

Copper Coin Group and Adjacent Area

SCALE 1"=1500'

H.H. Shear

April 1, 1964



Copper Coin Group
Greenwood MD, Deadwood Camp
Plan: Showing Location of Claims and Leases, Picket Lines, Magnetometer Readings, and Soil Samples.

Magnetometer Reading 1925
Soil Sample Value and Loc. 4 (parts/million)
Survey Control - Located old crown grant corner

Picket lines run by Brunton compass and chain.
Claim lines run by Brunton compass and pace.
Claim line tied in only on base line at 14+85 W.

Scale 1" = 200'
H.H. Shear April 1, 1964

