800954 Received via T. Kellner Sept 1/67
Note: he advises he could not locate road showings & states Bell & H not on ground at same time as him to guide him (!).
(road cut mineral prob in a loc. steepening of struct. drag fold - W.G.)

MANEX MINING LTD. (N.P.L.)
SUITE 200 - 535 THURLOW STREET, VANCOUVER 5, B.C. ● 681-4411

August 23rd. 1967

MOLYMINE EXPLORATIONS LTD. (N.P.L.)

MICROWAVE HILL

LOCATION & ACCESS:

Access to the claim group at the top of Microwave mountain is by 3 miles of all weather road leaving Highway 16 one half mile east of Houston, B.C. This road leads through the claim group to the Microwave tower which is located in the north west section of the claim group.

CLAIMS:

The property consists of 38 grouped claims made up as follows; Dan, Dan 1 to 7, Ed, Ed 1 to 16, Ed 100 to 102, Cup, Eagle 4 to 9, Abie, Baker, Charlie, Delta. On the south west side and adjoining claims Ed 5, Ed 100 and Cup, are found the Bell 1,2,3,4, claims located by Keefe. These claims hold fractions in the Microwave block. The copper show exposed in trench 3 is located on this fraction. Reference Claim Map and Trench Map.

GENERAL GEOLOGY:

Microwave Hill is composed of bedded tuffs and sediments with some basaltic lava flows. Sedimentary units range from cherts and argillites to fine conglomerates. The general attitude of these units is strike N20°E and dip 25° to 40° east. Variations on these attitudes are found in several areas particularily in the NW grid area where strike N60°E and dip 35°N were obtained in banded cherts.

Bedding units appear to extend through the investigated area but are often disrupted by faults. The rock is deeply weathered and little outcrop is visible on the lower slopes of the mountain.

Fractures are generally NNE with a complementary set trending EW. Dips are steep to vertical.

Zones of shearing are associated with some of the faults and mineralization is found in the briffle fine grained rock types - primarily cherts and rhyolites.

Mineralization occurs as zinc, copper, lead and silver sulphides contained both as fracture fillings and disseminations in the fine grained rock types. Mineralization is linked to shear zones trending NS, in effect, sub-parallel to the strike of the bedding.

Distinct and seperate zones of copper, copper-zinc, and zinc mineralization are present. Silver is present in good proportion to the copper and zinc.

Veins of sliver lead and zinc were found in old pits at the following grid locations: 1) 15N, 5E. 2) 46N, 7W. 3) 48N 11W. 4) approximately 56N, 6E. Pit 4 was samples by #45229

and #45230. These veins are from 2 to 5 inches wide but could not be traced for more than a few feet on the outcrops. Veins 1 and 2 were respectively exposed by trench number 16 and 26.

SOIL ANOMALIES:

The grid area was sampled in 1966 by Anco Explorations Ltd. (N.P.L.), and the samples tested for heavy metals, and total zinc. The results of this sampling were used to produce a map of anomalous areas and a trenching programme was set up to test the indicated anomalies.

Trenching indicated that the anomalous areas were generally downslope of mineralized rock exposures. Interpretation of soil results also indicates that concentrations of zinc were found in drainage patterns and areas of deep overburden. Therefore, it is possible that some of the anomalies are the result of soil enrichment from low grade zinc mineralization in the surrounding country rock.

A second soil sampling programme was carried out in 1967 by Manex Mining Ltd. (N.P.L.) in the following portions of the grid 0 to 40N, 0 to 15E, and 40 to 50N, 0 to 15W. Samples were tested for total zinc and a map drawn indicating the anomalous areas. Anomalies were mapped on the basis of a background cut off of 700 ppm ZN and a first order anomaly of 1500 ppm ZN. These values were taken from a graph showing the frequency distribution of the assay results. Exhibit A - Soil Survey Frequency Chart.

The Manex Mining Ltd. (N.P.L.) soil survey indicated a strong anomaly situated between 30 and 50N on the grid. A strong EW fault is located at 40N and the anomaly appears to straddle this zone. The results of the Manex survey were not available at the time trenching was undertaken and as a result only trenches 22 to 29 are in the indicated anomaly.

Isolated anomalous areas are indicated as at 18N-11E, 26N-14E, 28N-14E, however, geological investigation of these areas could detect no visible reason for these occurances.

TRENCHING:

Thirty trenches comprising 4,800 feet were cut to explore indicated soil anomalies of the 1966 sampling programme. Visual examination of the trenches revealed copper mineralization in trenches 1 to 7, copper and zinc in trenches 9, 28, 29, and zinc in trenches 9A and 22 to 25. A pit 4' deep and 12' long was put in trench #3 to find unweathered rock. Sample 45245 was taken from the bottom of this pit.

ROADS:

Some 2,200 feet of cat road was constructed to obtain access to soil anomaly areas indicated by the Manex soil sampling.

SAMPLING:

Samples were taken in the areas of better mineralization in trenches. Samples were chips taken from freshly exposed rock from blast trenches. Fresh rock could not be reached in

cont:

some trenches and if necessary weathered rock was used in samples.

SUMMATION:

Assay results and visual examination of fresh rock very exposed in trenches indicate the presence of a large body of low grade lead-zinc mineralization. A zone of copper-sliver mineralization is also indicated. APPARENT THICKNESS

Trench #2 exposes a cherty sedimentary unit 30 feet ~~thick~~ (across strike) which gave values of Cu .51% and Ag .96 ozs/ton over 25 feet. This was the best mineralization obtained over a comparable width. However, this zone has no potential for development except along strike. geol. delimited laterally

Available assays of the zinc showings reveal no values comparable to those obtained by W.M. Sharp in 1966. Assay results for zinc have been in the range .oo to .44%.

The copper zone exposed in trenches 3 and 4 shows marginal copper values of .08 to .13% in weathered rock. A difficulty arises in that the area of trench 3 is not on a claim held by Molymine, but on the Bell claims held by Mr. Keefe of Telkwa, B.C.

No recommendations for further work on this property can be made. except on tr. #2 as a coup de grace.

only O.P. target

note - did not find road exposure

Theo Kellner

MICROWAVE HILL
SOIL SURVEY
FREQUENCY CHART

AUGUST 1967 T.D.K

EXHIBIT A.

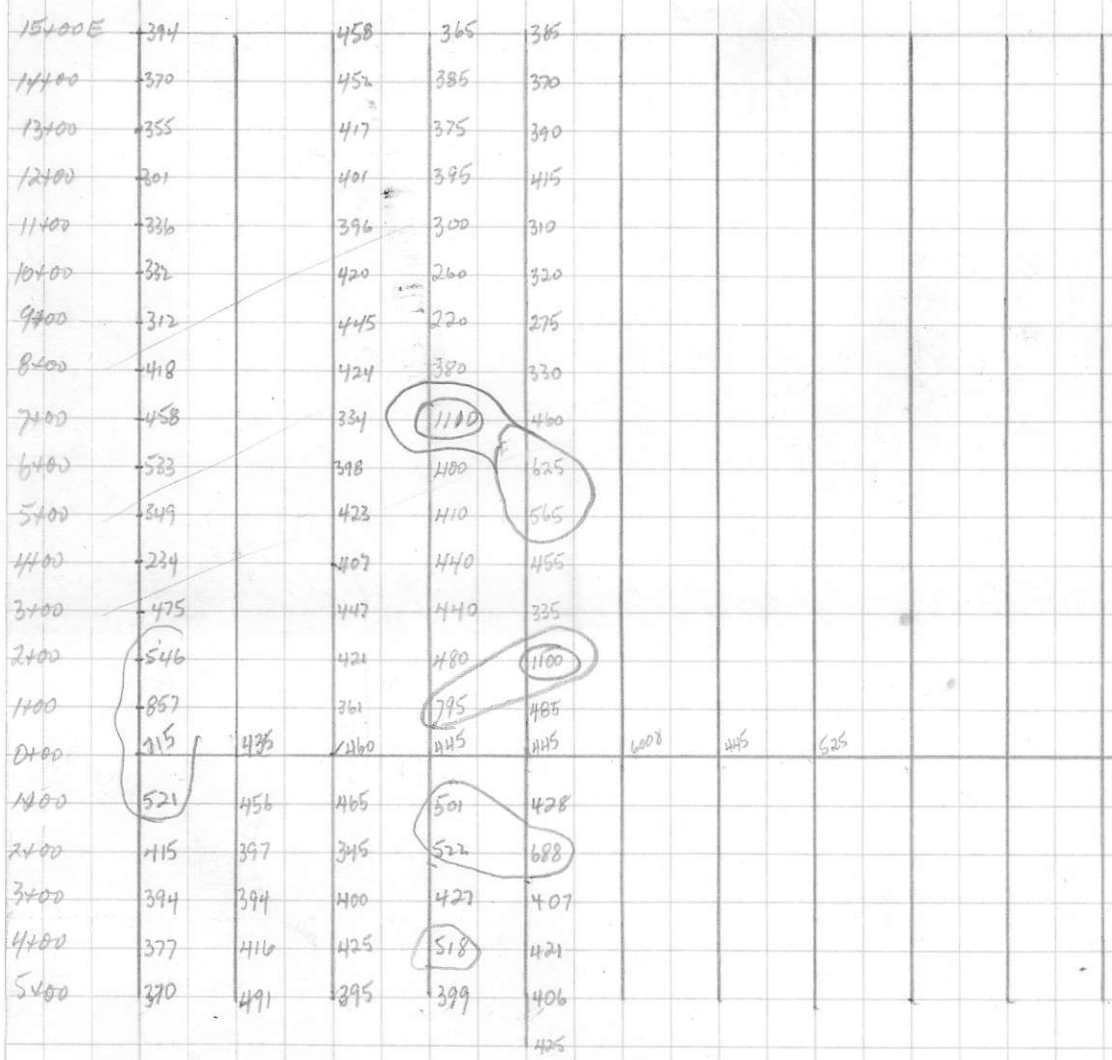
precise locations on geochem map.

SAMPLES AND ASSAY MICROWAVE

MAP LOCATION NOS.	TRENCH	SAM NO.	FEET	CU	ZN	AG	AU	PB	CD	TYPE
1	2	45232	25	.51	.05	.96	.01		.001	
2	2	44233	30	.04	t	t	t			
3	3	45243	50	.06			t			w
4	3	45244	60	.13		.10	.01			w
5	3	45245	12	.03	t	t	.02			w
6	4	45242	50	.08	.04	t				w
7	5	45246	30	.01		.16	.01			w
8	6	45251	30	.03	.10	t				w
9	6	45252	50	.01	.02	t				w
10	7	45253	20	.01	.09	.40				w
11	9	45268	3							
12	9A	45227	50		.11	t	.02		t	
13	9A	45228	35		.13	t	t		t	
14	pit 56, 6	45229	.5		28.4	1.7		12.6		
15	pit 56, 6	45230	4	.01	.86	.05		.16		
16	22	45264	53		.18	t	t	t	MIL	
17	22	45265	23		.44	t		t		
18	22	45266	23		.09	t		t		
19	23	45259	45		.06	t	t	.01		
20	23	45260	40		.17	t		.01		
21	23	45261	60		.12	t		Nil		
22	23	45262	40		.09	t	t	t		
23	23	45263	35		.22	t		t		
24	24	45241	60		.05		.02		Nil	
25	25	45254	60		.18	t		.02	Nil	
26	25	45255	60		.27	t	.02		Nil	
27	25	45256	32		.04	t		.01		
28	25	45257	25		.14	t		.02		
29	25	45258	65		.05	t		.01		
30	26	45267	12							
31	28	33985	15							
32	29A	33986	15							Select high grade
33	29B	33987	15							
34	29CD	33988	20							
35	A	33989	4							road cut (at Sharp sample location)

Note: Some assays not received and others taken over phone. Subject to revision.

SELECT MAGNETOMETER DATA
MICROWAVE HILL
JULY 26, 1967.



(RETAIN THIS COPY FOR FOLLOW-UP)

FROM: Theo Kellner

DEPARTMENT: MICROWAVE HILL

MANEX SMITHERS BOX 5 6

DATE: August 22,

SUBJECT: Time Usage

MESSAGE

	MICRO mandays	~~WORK DAYS~~ mandays MACKOW
Geologu and Supervision	23	4
Surveying	22	2
Drilling and Mucking	34	2
Blasting	11	1
Slashing	9	
Sampling	8	1
Supervision Trenching	6	1
Soil Sampling	5	
General Inspection	4	1
Magnetometer	2	
	124	12
Copco 28		2
Land Rover 47		5

USE LOWER PORTION FOR REPLY

REPLY FROM

DATE

August 23, 1967

Molymine Explorations

Microwave Hill — The o. Kellner

Location and Access

Access to the claim group at the top of Microwave mountain is by 3 miles of all weather road leaving Highway 16 one half mileeast of Houston BC. This road leads through the claim group to the Microwave tower which is located in the North west section of the claim group.

Claims

The property consists of 38 ~~claims~~ grouped claims made up.as follows Dan, Dan 1 to 7, Ed, Ed 1 to 16, Ed 100 to 102, Cup, Eagle 4 to 9, Able, Baker, Charlie, Delta. On the south West side , and adjoining claims Ed 5,Ed 100 and Cup, are found the Bell 1,2,3,4, claims located Keefe. These claims hold fractions in the Microwave block . Thecopper show exposed in trench 3 is located on this fraction. Refrence Claim Map and Trench Map.

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Microwave Hill is composed of bedded tuffs and sediments with some basaltic lava flows. Sedimentary units range from cherts and argillites to fine conglomerates. The ~~average attitudes~~ GENERAL ATTITUDE of the~~se rock are~~ UNITS IS strike N 20° E and dip 25 to 40 east. Variations on these attitudes are found in several areas particularily in the N W grid area where strike N 60 E and dip 35 N were obtained in banded cherts.

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Microwave

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Veins of silver lead zinc were found in old pits at the following grid locations 1) 15N,5E, 2) 46N,7W, 3) 48N,11W, 4) approx 56N, 6E,. Pit 4 was sampled by # 45229, and # 45230. These veins are from 2 to 5 inches wide but could not be traced for more than a few feet on the outcrops . Veins 1 and 2 were respectively exposed by trench numbers 16 and 26.

Soil Anomalies.

The grid area was sampled in 1966 by ANCO, and the samples tested for heavy metals, and total zinc. The results of this sampling were used to produce a map of anomalous areas and a trenching program was set up to test the indicated anomalies.

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Thirty trenches comprising 4800 feet were cut to explore indicated soil anomalies of the 1966 sampling program. Visual examination of the trenches revealed copper mineralization in trenches 1 to 7, copper and zinc in trenches 9, 28, 29, and zinc in trenches 9A and 22 to 25.

A PIT 4' DEEP AND 12' LONG WAS PUT IN TR #3 TO FIND UNWEATHERED ROCK. SAMPLE 45245 WAS TAKEN IN BOTTOM OF THIS PIT.

Sampbbbp. Roads. 2200 feet of cat road were created to obtain access to the soil anomaly areas indicated by the MANEX soil sampling.

Sampling. Samples were taken in the areas of better mineralization in trenches. Samples were chips taken from freshly exposed rock from blast trenches. Fresh rock could not be reached in some trenches and if necessary weathered rock was used in samples.

MICROWAVE

Summation.

Assay results and visual examination of fresh rock exposed in trenches indicate the presence of a large body of low grade lead zinc mineralization. A zone of copper silver mineralization is also indicated.

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SAMPLES AND ASSAY MICROWAVE

Map Location Nos	Trench	Sam No.	feet	Cu	Zn	Ag	Au	Pb	Cd	type
1	2	45232	25	.51	.05	.96	.01		.001	
2	2	45233	30	.04	t	t	t			
3	3	45243	50	.06			t			w
4	3	45244	60	.13		.10	.01			w
5	3	45245	/2	.03	T	T	.02			w
6	4	45242	50	.08	.04	t				w
7	5	45246	30	.01		.16	.01			w
8	6	45251	30	.03	.10	t				w
9	6	45252	50	.01	.02	t				w
10	7	45253	20	.01	.09	.40				w
11	9	45268	3	.06		.T				
12	9A	45227	50	.[illegible]	.11	t	.02		t	
13	9A	45228	35		.13	t	t		t	
14	pit 56,6	45229	.5		28.4	1.7		12.6		
15	pit 56,6	45230	4	.01	.86	.05		.16		
16	22	45264	53		.18	.T	.T	.T	.NIL	
17	22	45265	23		.04	.T		.T		
18	22	45266	23		.04	.T		.T		
19	23	45259	45		.06	.T	.T	.01		
20	23	45260	40		.17	.T		.016		
21	23	45261	60		.12	.T		.NIL		
22	23	45262	40		.09	.T	.T	.T		
23	23	45263	35		.22	.T		.T		
24	24	45241	60		.05	.	.02		.NIL.	
25	25	45245 54	60		.18	.T		.	.NIL	
26	25	45255	60		.27	.T		.	.NIL	
27	25	45256	32		.04	.T		.		
28	25	45257	25		.14	.T		.		
29	25	45258	65		.05	.T		.		
30	26	45267	12		.02	.T		.78		
31	28	33985	15	.	.	.				
32	29A	33986	15	.	.	.				select high grade
33	29B	33987	15	.	.	.				
34	29CD	33988	20	.	.	.				
35	A	33989	4		.	.		.		road cut(at SHARP sample location?)
36										

Date JULY 4 AUGUST., 1967

MANEX MINING LTD. (NPL)

Form #100

Property MICROWAVE & MALKON.

Sample Record _____

E.I.C. T. Kelhen.

			ASSAYED FOR																
Sample No.	Location	Description	ZINC		SILVER		LEAD		GOLD		COPPER		Cd		Date Shipped				
45227	MW Tr # [illegible]	CHIP 50' CHERTY SED	✓	.11	✓	T	✓	[illegible]	✓	0.02			✓	T	AUGUST 1, 1967				
28	MW Tr # [illegible]	CHIP 35' ALT. CHERT SED	✓	.13	✓	T	✓		✓	T			✓	T					
29	PIT SGN-6E	6" ZINC VEIN	✓	28.40	✓	1.70	✓	12.60											
30	PIT SGN-6E	4'; 2' ON L & R. OF VEIN	✓	.86	✓	0.05	✓	.18				.01							
31	MALKON PIT 8,9	COMBINED CHIP SAMPLE			✓	- - -				T	✓	.56							
			MW	.															
✓ 32	MW Tr # 2	25' CHERTY ARGILLITE	✓	.05	✓	.96			✓	.01	✓	.51	✓	.001					
33	MW Tr # 2	30'-ON W. OF # 45233 IN TUFF	✓	T	✓	T			✓	T	✓	.04							
45234	MALKON PIT #1	4' ACCROSS SHEAR ON N WALL	✓	.01	✓	1.40			✓	T	✓	.58							
35	PIT #1	5' ACCROSS SHEAR ON S WALL	✓	.01	✓	.70			✓	T	✓	.89							
36	TR #2	25' IN TR #2			✓	T			✓	T	✓	T							
37	TR #3	20'-40' ALTERED ROCK			✓	0.30			✓	T	✓	.51							
38	TR #3	40-65' SHEAR ZONE			✓	T			✓	.005	✓	.10							
39	TR #4	35' - TOTAL CHIP			✓	T			✓	T	✓	T							
40	TR #8	5' ON SHEARED ARGILLITE			✓	T			✓	T	✓	T							

Date AUGUST 1967

MANEX MINING LTD. (NPL)

Form #100

Property MICROWAVE

Sample Record

E.I.C. T. Kellner

Sample No.	Location	Description	ASSAYED FOR: ZINC		SILVER		COPPER		GOLD		CADMIUM		Date Shipped
45241	MW TR #24	60' ON S WALL, CHIP	✓	.05	✓	T			✓	.02	✓	NIL	AUGUST 9, 1967.
42	MW TR # 4	50' GRAB IN BLAST TRENCH	✓	.04	✓	T	✓	.08					
43	MW TR # 3	50' CHIP ALONG 325° WEATHERED			✓		✓	.06	✓	T			
44	MW TR # 3	60' W. END, TRENCH - WEATHERED			✓	.10	✓	.13	✓	.01			
45	MW TR # 3	12' IN PIT FRESH		.02	✓	T	✓	.03	✓	T			August 11, 1967.
46	MW TR # 5	30' ON 355° ROAD CUT. WEA.			✓	.16	✓	.01	✓	.01			
47	MARROW TR 1	40'. WEST END. TRENCH			✓	T	✓	.07	✓	.01			
45248	MARROW TR #5	Samples 5-2. 3 PITS IN SHEAR.			✓	T	✓	.18	✓	T			
49	MARROW TR #5	5-1. 3 PITS IN N. END.			✓	T	✓	.02	✓	T			
50	Tr #6	4 PITS ALONG TRENCH.			✓	T	✓	.01	✓	.02			
45251	MW TR # 6	30' E END GRAB	✓	.10	✓	T	✓	.03					
52	MW TR # 6	50' W END GRAB Cu SHOW	✓	.02	✓	T	✓	.01					
53	MW TR # 7	20' ROAD CUT. CHERT	✓	.09	✓	.40	✓	.01					August 17, 1967
54	MW Tr #25	21-81' CHERT CHIP.	✓	.18	✓	T		LEAD .02			✓	NIL	August 11, 1967
55	Tr 25	81-141' CG. SED. CHIP.	✓	.27	✓	T		LEAD .02			✓	NIL	
56	Tr 25	141-173	✓	.04	✓	T		LEAD .01					
57	Tr 25	200-225 SHEAR.	✓	.14	✓	T		LEAD .02					
58	Tr 25	320-345, 360-400 ALT, WEATHERED	✓	.05	✓	T		LEAD .01					
45259	Tr 23	0-45' FG. SEDS. FRESH	✓	.06	✓	T		LEAD .01	✓	T			
60	Tr 23	100-140' CHIP. FG SED. "	✓	.17	✓	T		LEAD .01					
61	Tr 23	195-255' CHIP CG. SED. "	✓	.12	✓	T		LEAD NIL					
62	Tr 23	285-325' V.F.G. SED. "	✓	.09	✓	T		LEAD T	✓	T			
63	Tr 23	412-447 CG. SED FRESH.	✓	.22	✓	T		LEAD T					
64	Tr 22	121-65' CHIP FG SED	✓	.08	✓	T		LEAD T	✓	T			
65	Tr 22	100-123 MASSIVE CHERT	✓	.44	✓	T		LEAD T			✓	NIL	
66	Tr 22	157-180 ALT. RX, CHIP.	✓	.09	✓	T		LEAD T					

Date AUGUST 1967

MANEX MINING LTD. (NPL)

Form #100

Property _____

Sample Record _____

E.I.C. T. Kellner

Sample No.	Location	Description	ASSAYED FOR: ZINC	SILVER	COPPER	LEAD			Date Shipped
									Aug 17, 1967
45267	MICROWAVE 26	12' Wood chip across Adit	✓ .02	✓ T		✓ .78			
45268	MW Tr 9	3' high grab Ca outcrop		✓ T	✓ .06				
45269	WESTMONT	~~Tr #3 SOUTH SHOW SAMPLE GOING E. TO W~~		✓ T	✓ .01				
45270	WESTMONT	SOUTH SHOW HILL Tr.			✓ .02				AUG 17, 1967
45271	"	Tr # 3 0-10' GOING E TO W		✓	✓				
72	"	Tr # 3 10-20'		✓	✓				
73	"	Tr # 3 20-25'		✓	✓				
74	"	Tr # 3 25-30'		✓	✓				
75	WEST MONT	Tr # 3 30-40'		✓	✓				
33976	WESTMONT	Tr # 3 40-50'		✓	✓				
33977	WESTMONT	Tr # 3 50-55'		✓	✓				
33978	WESTMONT	Tr 4 0-10'		✓	✓				
79	"	Tr 4 10-20'		✓	✓				
80	"	Tr 4 20-30		✓	✓				
81	"	Tr 4 30-35		✓	✓				
82	"	Tr 4 35-45		✓	✓				
33983	WESTMONT	Tr 5 0-10'		✓	✓				
33984	WESTMONT	SOUTH SHOW STA 20G 8' GRAB		✓	✓				
33985	MICROWAVE	TR 28 E END SHEAR 15' SELECTED HIGH GRADE	✓	✓	✓				
33986	MICROWAVE	TR 29A 15' HIGH GRADE SAMPLE	✓	✓	✓				
33987	MICROWAVE	Tr 29B SHEAR 15'	✓	✓	✓				
33988	MICROWAVE	Tr 29C, D 20' CHERT	✓	✓	✓				
33989	MICROWAVE	ROAD CUT, BASE LINE = 8N POSITION 'A'	✓	✓		✓			

Nothing here on results of new geochem survey coverage. —

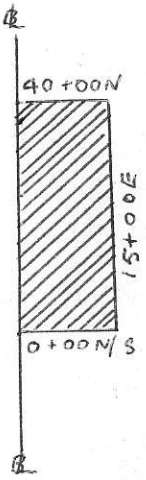
July 5/67

MANEX MINING LTD. (N.P.L.)
SUITE 200 - 535 THURLOW STREET, VANCOUVER 5, B.C. ● 681-4411

GEOCHEMICAL SURVEY OF MICROWAVE HILL

GEOCHEMICAL SURVEY

A geochemical soil sampling survey was conducted on part of the Microwave Hill grid, from June 24 to July 1, 1967. That part of the grid sampled extends from line 0+00N/S to line 40+00N and from the base line (which is 0+00E/W) to 15+00E, as indicated below. The lines have an east-west direction and are 200 feet apart where they cross the base line. Samples were collected every 100 feet along these lines. Three samples were missed because of extensive outcrop and one because of swamp.



number of E-W lines : 21
stations per line : 16
total stations :336
samples collected :332

All samples were taken from pits dug with pick and shovel. The lower "B" horizon was sampled wherever it was recognized. Elsewhere, samples were taken from immediately below the lowest level of evident organic activity. Sample depth varied from 4 or 5 inches to more than 30 inches with a median depth of approximately 15 inches.

ORIENTATION

The collection of 18 samples representing 3 soil profiles was conducted May 23. One profile of 5 samples to a depth of 32" was taken from the vicinity of the "Cd showing", another of 7 samples to 30" from the vicinity of the "Cu showing", and the third of 6 samples to a depth of 36" from an area where the bedrock appeared not to be mineralized. All of these samples were assayed forCu, Hg and Mo, and those from the "Cd showing" and from the "unmineralized area" were also assayed for Zn.

cont.

All of the assays from the orientation samples are represented below, with the exception of the Mo assays which were reported as "trace" for every sample.

COMMENTS

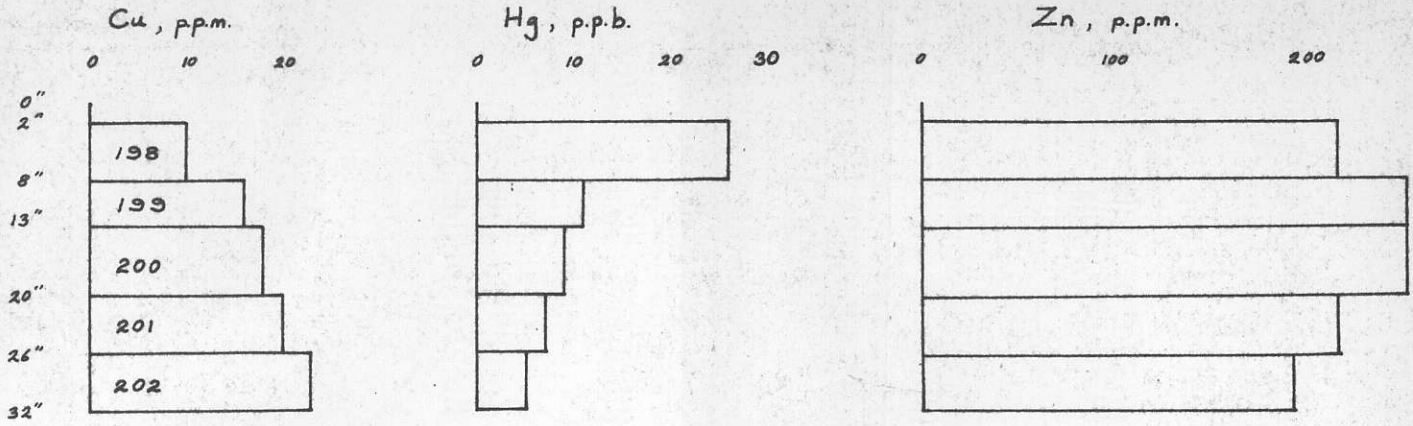
Results of the orientation survey were rather disappointing; however, the following comments can be made.

1. Molybdenum appears to be definitely unsuited for use as an indicator.
2. Copper might be applicable since the "Cu showing" is an apparently minor mineral occurrence and, therefore, does not rule out the possibility of a recognizable Cu anomaly being associated with more significant mineralization.
3. The application of mercury is uncertain and the higher values from the "unmineralized area" cannot yet be explained. However, experience at Mineral Hill and elsewhere in the area would rather lead one to expect some mercury being associated with any significant mineralization.
4. Of those elements tested, zinc appears to be the best suited for use as an indicator.
5. The overburden is generally shallow and in part residual, although a definate profile has not generally developed. However, a definite "B" soil horizon was noted, and sampled, at a few stations. There has, presumably, been down-slope movement of soil on the steeper slopes, which approach 40°. In conclusion, although the soil cover is certainly not ideally suited to geochemical exploration it is suggested that any occurrences of significant mineralization sub-outcropping beneath the generally shallow overburden would probably be indicated by soil sampling. The disappointing results of the orientation survey can probably be attributed, at least in part, to insufficient contrast between the bedrock of the "mineralized" and "unmineralized" areas.

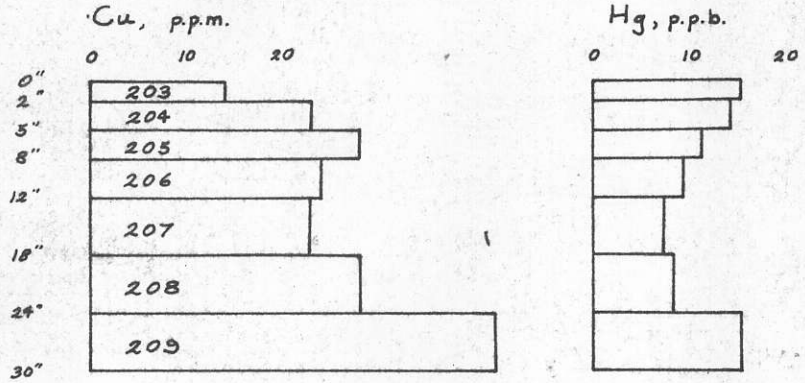
RECOMMENDATIONS

It is recommended that the 332 soil samples which have already been collected, be assayed for Zn, and that any further analyses or extended coverage await the outcome of these results.

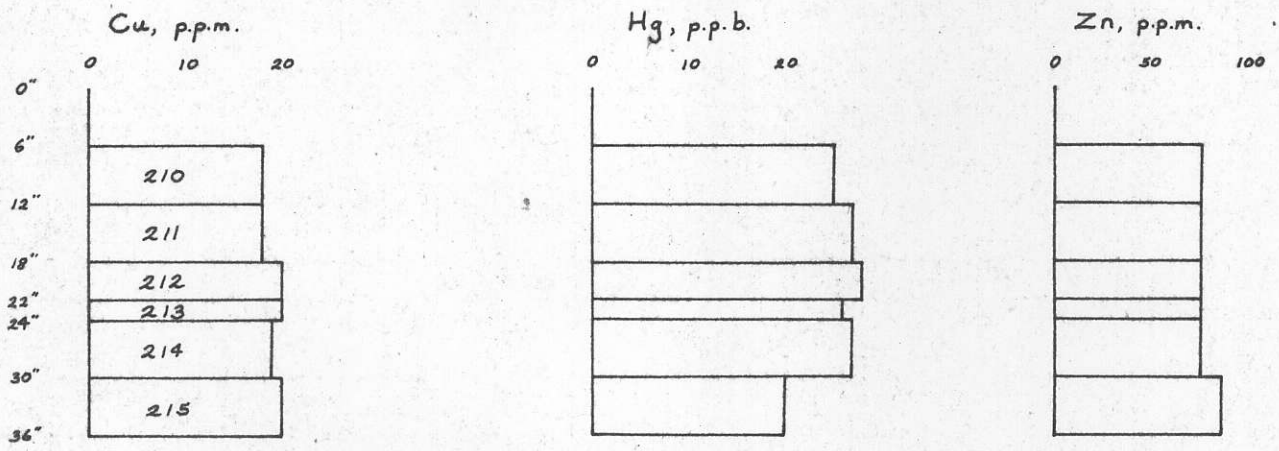
Michael Wetherley
July 5th. 1967



"Cd SHOWING"

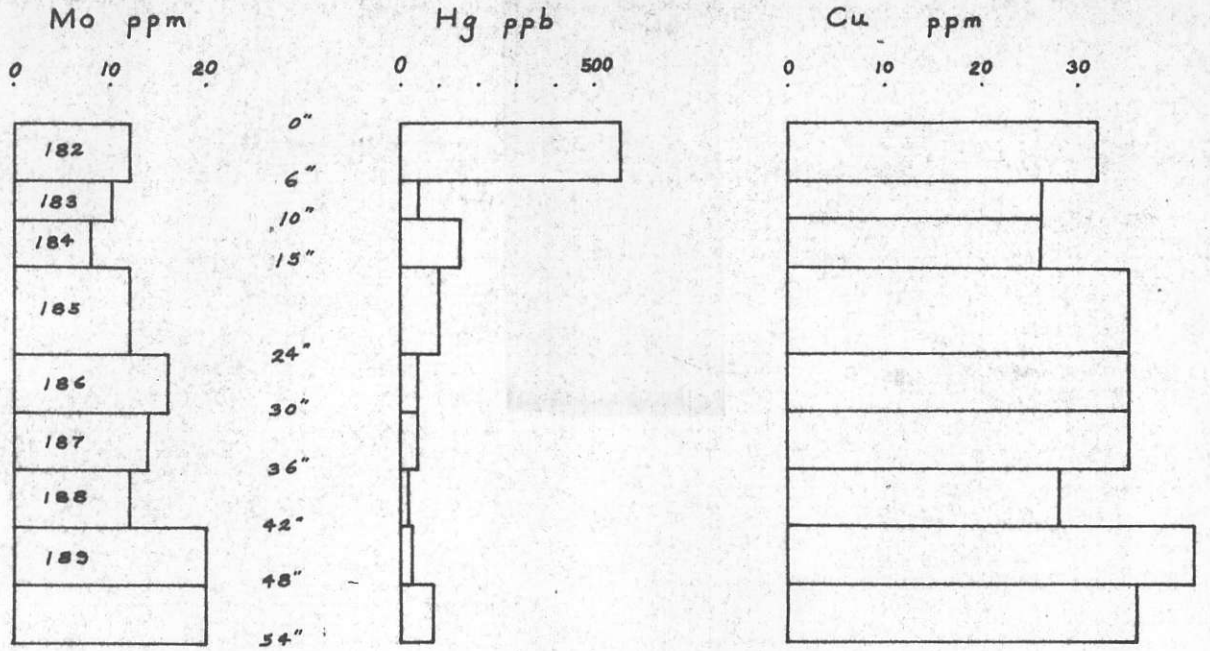


"Cu SHOWING"

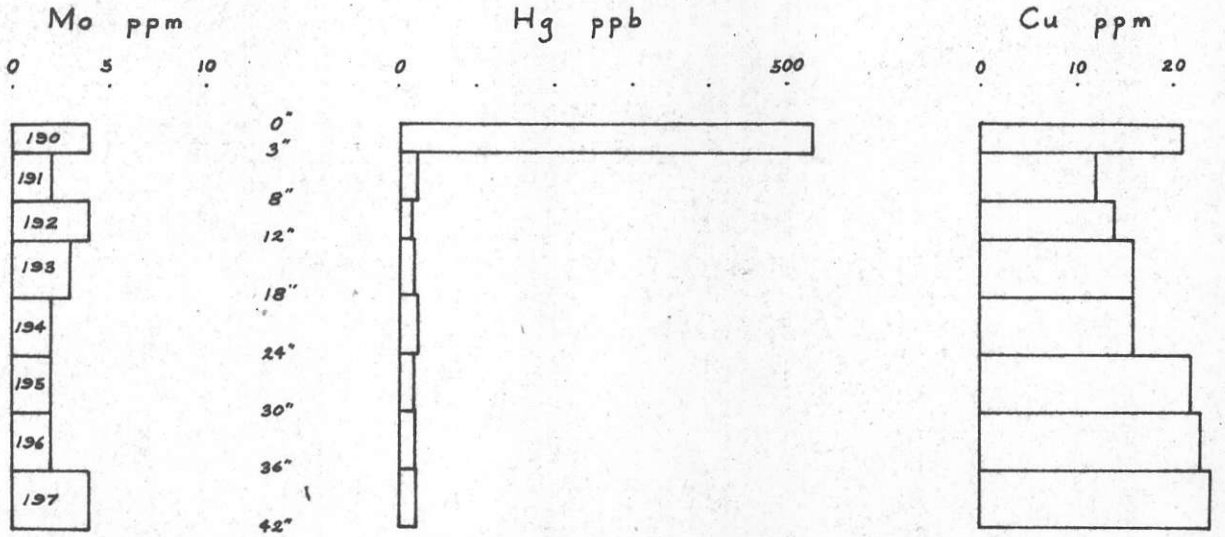


UNMINERALIZED AREA

MICROWAVE HILL
GEOCHEMICAL
ORIENTATION SURVEY



31+60S , 18+50W



5+00N , 1+80E