800954 Received Via T., Keelner



MANEX MINING LTD. (N.P.L.) Note: he advices he could

SUITE 200 - 535 THURLOW STREET, VANCOUVER 5, B.C. • 681-4411 August 23rd. 1967

MOLYMINE EXPLORATIONS LTD. (N.P.L.) him (!). (road cast mine pub in a MICROWAVE HILL for steepining of struct. drag fold - w.t.)

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 atti-tude 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

MINING EXPLORATION & MANAGEMENT • CONTRACTING

cont:

page 2

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 O to 40N, O to 15E, and 40 to 50N, O 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 page 3

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 THILENESS

(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. 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 marg 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 No recommendations for further work on the Trench #2 exposes a cherty sedimentary unit 30 feet thick (across strike) which gave values of Cu .51% and Ag .96 ozs/ton a comparable width. However, this zone has no potential for geol. delimite

Available assays of the zinc showings reveal no values laturally

The copper zone exposed in trenches 3 and 4 shows marginal Molymine, but on the Bell claims held by Mr. Keefe of Telkwa, B.C.

Theo Kellner



# SAMPLES AND ASSAY MICROWAVE

precise locaters on geochem. mile.

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

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VERNON CLARKE OFFICE SUPPLY LTD.

Molymine Explorations

#### Microwave Hill

The o Kellner

# Location and Access

Access to the claim group at the top of Macrowave 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 minima 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 . The copper show exposed in trench 3 is located on this fraction. Refrence Claim Map and Trench Map.

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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,

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Ex. 200 (NPE)

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2

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Trenching. The fide and been proved a state of the

#### 4800

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in trenches 9, 28, 29, and zinc in trenches 9A and 22 to 25. Ann A PIT 41 OSEP, AND 121 CONC. WHIS PUT IN TO #3 TO FIND UNWEAPFORED ROLL. SAMPLE 4.5345-MAS FAREN IN BOFTOM OF THIS PIT.

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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

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

Trench # 2 exposes a cherty sedimentary unit 30 feet a thick ( accross strike) which gave values of Qu .51 and Ag of .96 over 25 feet. This was the best mineralization obtained over a comperable width, However, this zone has no potential for development except along strike.

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The copper zone exposed in trenches 2 and 4 shows marginal copper values of .08 to .13% in weathered rock. A difficulty arises in that the area of trench 3 is ma not on a claim held by MOLYMINE, but on the Bell claims held by Mr. Keefe of Telkwa BC.

Map	· ·		SAMPLES A	AND ASSA	Y MIC	ROWAVE				
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Date JULY. 4 A.U.G.UST. 1967.

Property MICROWAVE & MALKON.

MANEX MINING LTD. (NPL)

Sample Record \_\_\_\_

Form #100

E.I.C. J. Kellner.

Sample No.	Location	Description	ZINC		51	LVER	14	FAD.	Go	10	100	PPEN	Cd	Date Shipped
45227	MW TA # 20%	CHIP SO' CHERTY SED	V	. 11	V	T	V	02	V	0,02			VT	AUGUST 1,196
28	MW TA # 309A	CHIP 35' ALT. CHEAT SED	V	e-13	V	. 7	V	1 C 22	V	7			VT	2
29	PIT SEN- 6E	6" ZINC VEIN 5	V	28.40	V	1.70	1	12.60						
30	PIT SON GE	41 - 2'ONLAR. OF VEIN	V	86	V	0:05	V	.18		·		=01		A
3/	MALKOW PIT 8,9	COMBINED CHIP SAMPLE	hos	•	V					7	V	+56		
32	MW To # 2	25' CHEATY ARGILLITE	V	.05	V	. 76			V	.0/	V	.51	V.0	0/
33	MW TA #2	30'-ON W. OF # 45239 IN TUFF	V	T	V	T	-		~	- T	V	0.04		
457 34	MALKON PITEL	41 ACCODES SHEDD ON NINAL	V	+01	V	1140	+		1	T	1	.58		
35	PITHI	5' ATTROSS SHEAR ON S WALL	V	.0/	V	.70			1	7.	V	.89		
36	TR#2	25' IN TR#2	1		V	T			V	Tre	V	T		
37	TRE 3	20'-40' ALTERED ROCK			V	0130			V	T	V	51		
38	TR#3	40-65' SHEAR ZONE.			V	T			1	.005	V	.10		
39	TRHY	35' - TOTAL CHIP.			V	T			V	7	V	T		
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Date AUGUST 1967 MANEX MINING LTD. (NPL)

Property MICRO WAVE

Sample Record \_\_\_\_\_

Form #100 E.I.C. <u>T. Hellner</u>.

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Sample No.	Location	Description	2	INC	51	LVER	60	PPER	6	010	61	ADMIUM.	Date	Shipped	
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45241	MW TR = 24	60° ON 5 WALL, CHIP	V	.05	V				V	.02	V	1012.	AUGOST	9, 1967	
42	MW TR # 9	50' GRAB IN BEAST TRENCH	V	.04	V	T	V	.08						· · · · ·	
43	MN TR# 3	50' CHIP ALONG 325° WEATHERED		lanna an	V		V	. 06	V	T		in the	-		
44	MWTR= 3	60 W. END, TRENCOL - WEATHERED		1.00 g	V	.10	V	,13	V	,01	100	4 i			
< 45	MW TR# 3	121 IN PIT FRESH		.02	V	T	V	.03	V	T			august	11,196	
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Ħ		· · · · · · · · · · · · · · · · · · ·				ideal .	1.1	1986 - A.							
47	MALKOW TR 1	40'- WEST END . TRENEW			V	T	v	.07	V	.01		-			
452 48	MALKOW TR #5	Sough 5.2 3 PITS IN SHIEAR.			V	t	V	.18	V	T				-	
49	MARINOWTA #5	5-1. 3 PAS IN M. EUD.			V	T	4	.02	2	T					
50	17 "6	4 PITS RIONE TRENCH.	1.1	et	V	T	V	. 01	0	.02		<u> </u>			
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45251	MW TR # 6	30' EENO GRAB	1	a10	V	T	1	.03		in the start	r. F				
52	MW TRE 6	50' W END GAMB CON SHOW	V	.02	1	T	1	.01				1997 - 19		2419 24	
53	MUTRO 7	20' ROAD CUT. CHEAT	V	.09	1	.40	1	.01				and the parts	dugint	8. 176	
					4		12								
54	MW 74 # 25	21-81 CHERT CHIP.	V	18	V	T		LEA	0: -	02	V	NIL	dugers	11,196	
55	17 25	81-14/ CG. SEO. CLIP.	~	.220	V	T	11	LEA	Q .	2	V	NIL	0 1		
56	17 25	141-173	V	.04	V	T		LEA	0	>/	4				
\$7	10 32	200 - 275 SHEAR.	V	014	V	<u> </u>		LEAD	3.00	S	-			21 E - 21 21	
58	12 25	320-345, 360.400 ALT, WEDINERY	V	105	V	, T	1	LEAL	2 .0	1				A contraction	
45259	Tn 23	0-45 BG. SEDS. FRESH	V	.06.00	V	T	1.	LEAD	11	T	1		Real and the second second	and a second	
60	12 53	100-140 CHIP. FG SED. "	V	17	V	T		LEAD.	1		and and a				
61	In 23	195-755' CHIP GG. SED. "	V	3/2	V	T	100	LEAD. N	112.				5 - 5 A		
62	Tn 23	285-325' U.F.C. SED. "	V	1.09	V	T		LEADT	-	$\mathcal{T}^{\mathcal{T}}$	10.1	an alter a ter ter ter ter	R F		
63	12 23	412-447 cf. SED FARM.	V	520	V	T		LEADT			10				
64	In 22	12'-65' CHIP FG SED	V	. \$8	V	T		LEROT	V	T		2442 - 244 	1		
65	In 22.	100 - 123 MASSINE CHENI	V		V	T		LEAD T	-		V	NIL			
66	ta 22	157-180 MIT. RX, CHIP.	V	+ 09	V	T		LEPO. T					L_K		
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and again the second of the lower of the second or second	1		1		+						15	1			

Date AUGUST 1967

MANEX MINING LTD. (NPL)

Form #100

Property \_\_\_\_\_

Sample Record \_\_\_\_\_

E.I.C. J- Kellner

	- Second	Sec.	5 N	154										
Sample No.	Location	Description	Z	INC	51	WER	Co	PPER.	12	EAQ	1		Date	Shipped
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45267	MICNO WHJ? 26	12' Welchip veron adit	V	.02	4	$\mathcal{T}$	12		V	.78	1		0	1
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	ALL LA TO THE	La the second second the second second		Arres San	13	1 Sections	in to	an a	- a <sup>2</sup>					
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45270	WESTMONT	SOUTH SHOW HILL TA.		w <sup>1</sup> b	02	Nº 3.2 5	V	.02	0.1	ga-			AUG	17, 1967
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75	WEST MONT:	To # 3 30 - 40'		4 4	V	1 de 1 1	1		1.1					*
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33987	MICROWAUE	TA ZAR SHEAR. 15'	V	-	10		V	1. 4. 1. 1. 1.		an an	1.0		1	
33988	MARROWAVE	TA 290,0 20' CHEAT	V	1. p. 1	~	2 	V	6 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	1. 19				1	
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# 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
statio	ns j	ber 1	.ine		16
total	stat	tions	8	:	336
sample	s co	llec	ted	:	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 tose from the "Cd showing" and from the "unmineralized area" were also assayed for Zn.

cont.

# page 2

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





"Cu SHOWING"



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UNMINERALIZED AREA

MICROWAVE HILL GEOCHEMICAL ORIENTATION SURVEY



31+605 , 18+50 W





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