

HYLAND RIVER MINES LTD.
Geology Report
1969

ALRAE ENGINEERING LTD.

November 28, 1969

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ALRAE ENGINEERING LTD.
VANCOUVER, B.C.

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LIST OF ILLUSTRATIONS

Scale

Bound in Text

Property Location

1" = 65 mi.

In Pocket

Maps

- | | |
|--|-------------|
| 1) Miko Claims | 1" = 1,500' |
| 2) Geology Miko Claims | 1" = 100' |
| 3) Magnetic Survey Miko Claims | 1" = 100' |
| 4) Magnetic Contours and Electromagnetic Anomalies Miko Claims | 1" = 100' |
| 5) Geochemical Survey - Zinc, Miko Claims | 1" = 100' |
| 6) Geochemical Survey - Lead, Miko Claims | 1" = 100' |
| 7) Geology Jan Claims | 1" = 100' |

Figures

- | | |
|--|----------|
| 1) Stylized Section Through DDH's HR #2 and HR #3 | 1" = 30' |
| 2) Creek Zone Plan of Cat Trenches #C1 and #C2 | 1" = 4' |
| 3) Trench Sections 1 - 9 and Pit Sections 1 and 2, Hillside Zone | 1" = 10' |

Appendix

Diamond Drill Logs DDH's HR 1 - 5

INTRODUCTION

Assessment work and general exploration was carried out on the company's Jan and Miko properties, both of which are situated in the Hyland River area of the Yukon Territory.

The program on the Miko claims involved prospecting, geophysical and geochemical surveys, trenching and diamond drilling to determine the extent and potential of indicated lead-silver-zinc mineralization in contact skarn zones adjacent to granitic intrusives. A similar geological situation on the Jan group has resulted in marginal copper-gold mineralization which was investigated by prospecting, trenching and sampling.

This work indicated promising mineralization in both areas, particularly on the Miko ground where lead-zinc mineralization was located in two main zones; work on the lower or Creek Zone revealing the presence of massive high-grade lead-zinc mineralization.

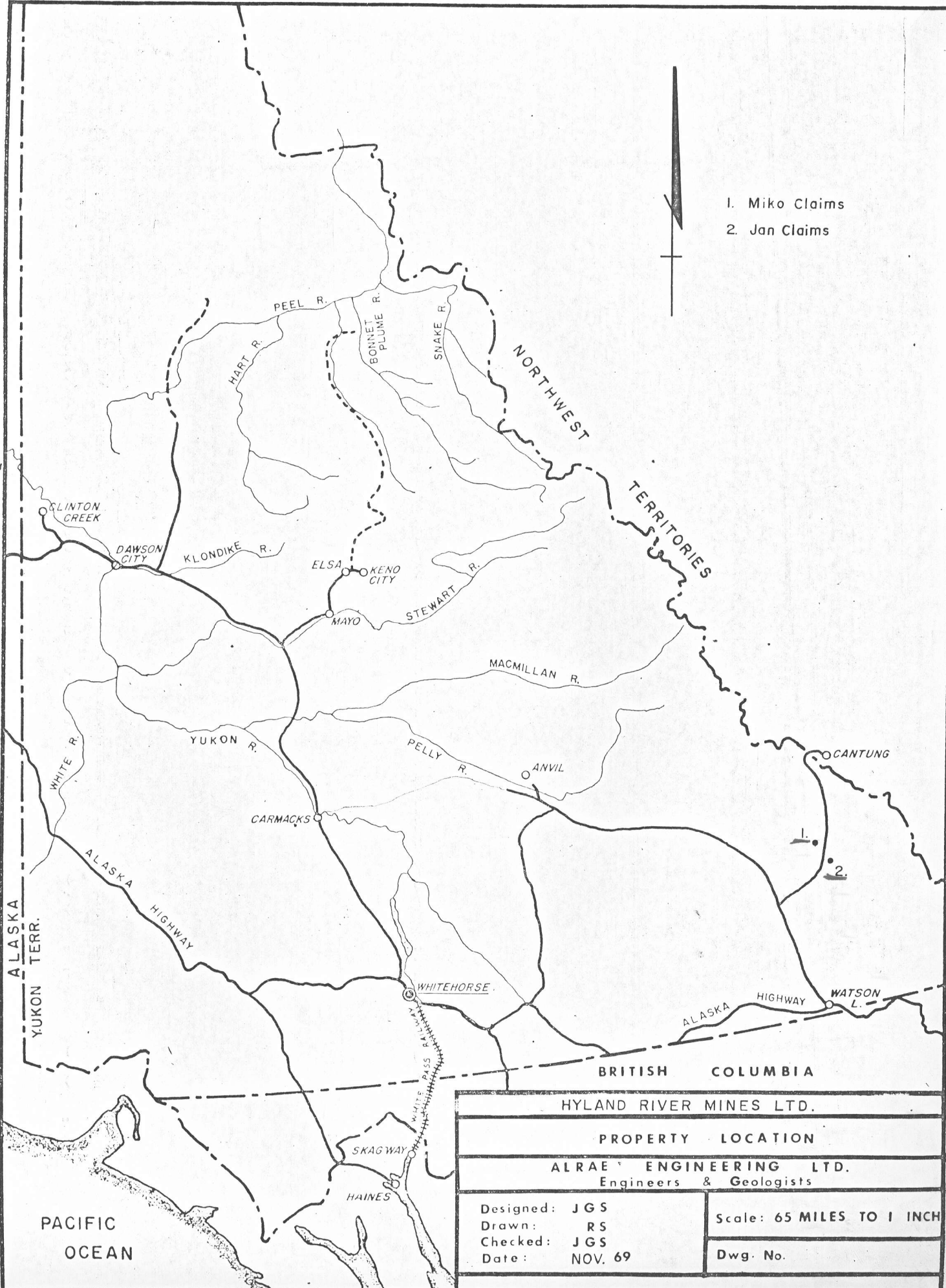
A program of further exploration and development is strongly recommended, particularly on the Miko property, where detailed soil sampling, cat trenching and drilling should provide further positive information.

Property and Ownership

The Miko property comprises 24 adjacent claims in two groups held by Hyland River Mines Ltd. Group 1 is made up of claims Miko #1 - 16, record numbers Y2759 - Y2774 inclusive; while the second group is made up of an additional eight claims, Miko #17 - 24, record numbers Y29174 - Y29181. The Jan group comprises mineral claims Jan #1 - 16, record numbers Y2759 - Y2774 inclusive.

Location and Access

The Miko claims are situated about ten miles west of Mile 47



- 1. Miko Claims
- 2. Jan Claims



HYLAND RIVER MINES LTD.	
PROPERTY LOCATION	
ALRAE ENGINEERING LTD. Engineers & Geologists	
Designed: JGS	Scale: 65 MILES TO 1 INCH
Drawn: RS	
Checked: JGS	Dwg. No.
Date: NOV. 69	

on the Cantung highway at latitude $61^{\circ}15'N$, longitude $128^{\circ}15'W$, 114 miles north of Watson Lake, Yukon Territory, and are accessible by four-wheel drive vehicle along a 12 mile dirt road turning off from the Cantung road. Conglomerate Creek, a right bank tributary of the Hyland River, cuts across the northwest section of the claim group and is at an elevation of about 3,000 feet; flanking hills to the south reaching elevations in excess of 6,000 feet.

The Jan claims are located five miles east of Mile 38 on the Cantung highway, some 108 miles north of Watson Lake, a distance of 16 air miles southeast of the Miko property, at an altitude of 5,000 to 6,000 feet.

MIKO CLAIMS

GEOLOGY

The accompanying maps show the provisional geology of the claim area indicated by this seasons prospecting and exploration. This is subject to correction as detailed geological mapping is restricted to the trenched area and the immediate vicinity of Conglomerate Creek. In general, the picture is that of a granodiorite intrusive contact with calcareous and argillaceous sediments, which to the south of Conglomerate Creek trends west-northwest, swinging north through northwest to northeast across the creek valley forming a westward facing embayment of metasediments.

The geology in the valley is obscured by talus and variable thicknesses of overburden, except in the immediate vicinity of the creek. Comparison of strata north and south of the creek indicates that it may be the site of a major dislocation.

Where the granodiorite-sediment contact is well exposed on the southern hillside zone, the metasediments dip at from 55° to 80° to the south and strike approximately parallel to the intrusive

contact at about 115° azimuth. This strike and the southerly dip of the sediments remain remarkably consistent throughout the claim area and a well exposed section of the creek bed comprises schists, limestones, quartzites and a variety of calc-silicate and skarn rocks. Skarn rocks are intermittently mineralized with lead, zinc, copper and silver and form part of a contact zone extending for a number of miles.

MINERALIZATION

The intrusive contact with calcareous metasediments on the southern hillside zone has given rise to calc-silicate rocks and epidote skarns in which iron sulphides, galena, sphalerite, chalcopyrite, silver bearing minerals and minor scheelite have been concentrated. Magnetite and minor pyrrhotite occur sporadically but are not consistent indicators of other mineralization.

For descriptive purposes two sub-zones have been delineated in the southern hillside zone, namely the Cirque Zone and the Hillside Zone. Both zones are identically situated with respect to the intrusive contact; and the Cirque Zone being 3,500 feet east-southeast of the Hillside Zone and separated from it by a stretch of relatively unmineralized contact. A third area of mineralization occurs in the creek valley where near in situ boulders of high-grade lead-zinc mineralization were located.

Cirque Zone

The Cirque Zone is situated in the southeastern part of the property on claim Miko #12. A three foot wide band of mineralized, siliceous, epidote skarn, striking at 115° azimuth and dipping 45° to 50° to the south, was traced along the cirque floor and east wall for about 200 feet by means of intermittent outcrop and talus. Initial sampling of the band indicated 3.4 oz per ton silver; 0.73% copper; 4.39% lead; and 0.20% zinc. Three diamond drill holes were put down

depth profile comparable to the surface pattern and for this reason can be expected to provide only a modest tonnage.

Creek Zone

The Conglomerate Creek valley is fairly wide and in areas adjacent to the river bed superficial cover is relatively thin. Further up the valley side an increasing thickness of glacial drift overlain by talus effectively masks the underlying geology. Fairly late in the season a number of large, loose blocks made up almost entirely of sphalerite and galena were located about 600 feet south of the creek bed. As these blocks were obviously nearly in situ intensive prospecting was carried out in the immediate vicinity. As a result, near in situ showings were located in three places along a 300 foot strike parallel to the exposed country rocks. Subsequent hand and limited caterpillar trenching at the three locations revealed massive sulphides in place. The ratio of galena to sphalerite in this rock is about 50:50 with only minor amounts of calcareous and siliceous gangue. Limited availability of a caterpillar bulldozer allowed for trenching at only three localities, one of which remained incomplete after exposing a number of near in situ sulphide blocks. Cat trenches No's. 1 and 2 revealed 14 foot and 16 foot in situ widths of massive sulphide respectively, clearly formed by the selective replacement of a calcareous horizon in a locally argillaceous sequence; the massive sulphide retaining a relict banding and having a strike and dip contiguous with the adjacent country rock.

The average assay across the two trenches is 2.62 oz per ton Ag; 20.5% Pb; and 15.7% Zn. Assays of surface samples to the east of the cat trenches are equally high. An essential part of the follow up program will be to determine the depth and extent of this deposit by cat trenching and drilling, and to carry out intensive prospecting and soil sampling in the creek valley using this occurrence as a control.

particular area.

Electromagnetic Survey

The ready availability of an Abem EM gun prompted a rapid ground EM survey using available cut lines. Response over the mineralized Hillside Zone was anomalous, as might be expected, and further confirmed the known mineralization and indicated extensions, although the immediate vicinity of the trenches was not covered due to the steepness of the ground. However, there was little or no response over the massive sulphide horizon in the Creek Zone. It is concluded that the massive sphalerite-galena does not respond well to electromagnetic methods. Lines covered by EM traverses and possible anomalies are indicated on the accompanying maps.

GEOCHEMISTRY

Soil samples were taken at 100 foot intervals on lines spaced 400 feet apart in the Conglomerate Creek valley and on the 100 foot square grid over the Hillside Zone. The samples were assayed for lead and zinc and results plotted on the accompanying maps. Anomalous areas in the Hillside Zone indicate the mineralized lenses with anomalies up to 1,400 ppm zinc and 850 ppm lead. The presence of areas of above threshold value upslope of the trenches is significant and may indicate the presence of parallel mineralized lenses to these outlined by trenching.

A mean background value was not calculated for the whole area as the contrast in sample density, topography, and type and thickness of overburden between the hillside and valley areas was considered too great. Although the number of samples is somewhat inadequate, a mean background value for the valley area, based on just over 100 samples, and disregarding erratic high values is 40 ppm zinc and 25 ppm lead, the approximate threshold values being 130 ppm zinc and 90 ppm lead.

Samples in the vicinity of the sulphide horizon in the Creek Zone are not particularly high, varying from 35 - 90 ppm zinc and 26 - 88 ppm lead. However, the generally flat terrain in this locality does not lend itself to wide dispersion of values, lead in any case being a rather inert element.

As geophysical methods appear to have a limited application in this area an orientation soil survey for lead-zinc, using the known sulphide horizon as a control, is indicated.

DIAMOND DRILLING

In all, five shallow exploratory diamond drill holes totalling 996 feet were put down on the Miko property. These holes were put in on the basis of early and incomplete information prior to the present authors involvement and were, in fact, somewhat premature. Three diamond drill holes, HR #2, HR #3, and HR #4 were drilled in the Cirque Zone as previously described and indicated sporadic low-grade mineralization which lensed out rapidly along strike and in depth. Only diamond drill hole HR #2 intersected any significant mineralization, which was sampled and forwarded for assay. Assay results are given in Table 1. DDH #1 was drilled on the inferred metasediment-intrusive contact north of Conglomerate Creek and cut epidote skarns and granitic lenses but failed to intersect any worthwhile mineralization, except for sporadic indications of scheelite. Hole HR #5, based on a local magnetic high cut a similar sequence of metasediments and minor epidote skarns with granitic lenses. A single five foot length of skarn between 14 and 19 feet assayed 0.16% WO_3 . Minor stringers of sphalerite also occurred in epidote-rich lenses in both DDH HR #5 and #1 but nothing of economic interest was intersected. Core from holes HR #2, HR #3 and HR #4 is stored at the Cirque camp, while that from holes #1 and #5 is stored near the Monarch camp. Full descriptions of the core are given in the core logs forming an appendix to this report.

Tr. H7 True width 3.0 feet 2.3 oz/ton Ag; 4.70% Pb; 3.86% Zn.
Tr. H9 True width 10.0 feet 1.4 oz/ton Ag; 2.74% Pb; 4.33% Zn.

As the continuity of these lenses is in doubt they were not included in the average calculation. The relationship of each trench section is based on intervening outcrop and surface float and is itself subject to confirmation.

No depth information is available on this section, although considering the length of the lenses and the difference in altitude between trenches H1 and H9 of some 350 feet, it would seem possible that to a depth of 200 feet below surface some 330,000 tons of material, similar in average grade to the trench sections could be available. An upgrading of the material to a gross value in excess of \$20.00 per s.t. would reduce the available tonnage to around 250,000 s.t.

The high-grade massive lead-zinc sulphide lens indicated by surface outcrops and near in situ boulders in the Creek Zone were opened up initially by hand trenching but the depth and type of overburden proved too much for this method and caterpillar-bulldozer was brought in late in the season to open up the showings. This work showed without doubt that the material is in place and forms a definite horizon. Channel samples were taken across the cat trenches and chip samples were taken from surface and near surface outcrops. All samples were forwarded for assay and the results are shown in Table 1. The average assay across the two main cat trenches #1 and #2 is 2.62 oz silver per ton, 20.5% lead; and 15.7% zinc. The position of sample and assay values obtained are shown on the accompanying trench section and plans. A significant feature of the assay values both on the Hillside Zone and in the massive sulphides of the Creek Zone is the extension of acceptable silver values outside the zone of base metal concentration. In most cases the silver values

HYLAND RIVER MINES LTD.
Miko Claims
Assay Results

HILLSIDE ZONE TRENCH SAMPLES

TABLE 1

Assay and Sample No.	Loc'n	Type	Width Ft.	Cor. Width	Au oz/ton	Ag oz/ton	Cu %	Pb %	Zn %	Cd %	Bi %	WO ₃ %	*Gross Value Nearest \$
32715	Tr H1	Chip	10	9.5	0.005	1.6	0.06	1.91	2.00			Tr.	13.00)
32716	Tr H1	Chip	12	11.5	Tr.	0.8	0.18	0.73	5.47				15.00)
16891	Tr H2	Chip	10.5	10.0	-	4.2		6.00	11.80				50.00
32717*	Tr H2	Chip	11	10.5	Tr.	10.8		8.22	14.01	0.07	0.10		74.00
32718	Tr H3	Chip	15	14.0	Tr.	3.8		2.94	3.86	0.02	0.05		24.00)
32719	Tr H3	Chip	12	11.5	Tr.	1.6	0.60	0.69	0.70				12.00)
32720	Tr H3	Chip	14	13.4	Tr.	1.1		0.83	1.60				8.00)
32721	Tr H4	Chip	22	20.0	Tr.	1.3		0.37	0.55				4.00
32722	Tr H5	Chip	8	7.0	0.005	2.0		1.05	1.08				9.00
32723	T.P. 1	Chip	10	10.0		1.9		2.99	5.04				23.00
32724	T.P. 2	Chip	10	10.0		3.8		5.15	5.93				34.00
32725	Tr H7	Chip	3	3.0		2.3		4.70	3.86				20.00
32726	Tr H7	Chip	7	6.0		1.8		2.52	3.08				17.00
32727	Tr H8	Chip	4	3.6		0.53		1.03	3.52				10.00
32701	Tr H6	Chip	7	6.0		1.1		0.34	1.18				5.00)
32702	Tr H6	Chip	5	4.2		12.6		9.62	9.70				71.00)
32703	Tr H6	Chip	12	10.5		1.2		0.96	0.34				5.00)
32704	Tr H5	Chip	5	4.5		3.2		3.33	4.99				26.00)
32728	Tr H9	Chip	10	9.0		1.4		2.74	4.33				20.00)
32729	Tr H9	Chip	8	7.5		1.7		2.43	3.30				17.00)

Au. \$40 oz; Ag. \$2 oz; Pb. 15¢ lb.; Zn 10¢ lb.

* Repeat sample

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CREEK ZONE TRENCH SAMPLES

TABLE 1 (Cont.)

					<u>Au</u>	<u>Ag</u>	<u>Cu</u>	<u>Pb</u>	<u>Zn</u>	<u>Cd</u>	<u>Bi</u>	<u>WO₃</u>	
32711	Tr C1	Chip	14	13.0	0.02	2.3		21.94	18.05	0.10	0.03	106.00)	98.00
32712	Tr C2	Chip	16	14.8	0.02	2.9		19.24	13.81			91.00)	
32714	Tr C1	Chip	10										
		best		9.2	Tr.	1.9		26.57	21.56			136.00)	
32713	Tr C2	Chip	10)137.00
		best		9.2	0.03	1.9		27.14	21.76			139.00)	
10506	between C1 & C2	Sur. o/c grab	6	5.0		0.85		44.1	29.1				
32710	150' E of Tr C3	Sur. block grab	4	4.0		2.0		34.89	27.98				

DIAMOND DRILL CORE SAMPLES

16884	HR #2	Split Core	154.3- 157.3	3.0	Tr.	0.46	0.01	0.70	0.68			4.00	
16885	HR #2	Split Core	160 - 163	2.0	Tr.	0.04	0.01	0.02	Tr.			-	
16886	HR #2	Split Core	163 - 170	7.0	Tr.	2.42	0.01	0.54	4.30			21.00	
16887	HR #2	Split Core	170 - 174.8	4.8	Tr.	0.18	0.01	0.07	0.12			-	
16888	HR #2	Split Core	174.8- 176.6	2.0	Tr.	0.52	0.03	0.07	0.15			-	
32705	HR #5	Split Core	15 - 19	4.0								0.16	-

NOTE:

Brackets denote adjacent widths.

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ENGINEERS & GEOLOGISTS

HYLAND RIVER MINES LTD.

Jan Claims
Assay Results

TABLE 2

<u>Assay and Sample Number</u>	<u>Location</u>	<u>Type</u>	<u>Width Ft.</u>	<u>Au oz/ton</u>	<u>Ag oz/ton</u>	<u>Cu %</u>	<u>*Gross Value Nearest \$</u>
32730	Tr #1	Chip	6.0	0.02		0.72	8.00)
32731	Tr #1	Chip	6.0	0.01		0.90	9.00)
32732	Tr #1	Chip	6.0	0.01		0.56	5.00)
32733	Tr #1	Chip	6.0	0.005		0.62	6.00) 6.00
32734	Tr #1	Chip	6.0	Tr.		0.51	5.00)
32735	Tr #1	Chip	6.0	0.01		0.92	9.00)
32736	Tr #1	Chip	6.0	0.005		0.30	3.00)
32739	Tr #2	Chip	10.0	0.20	0.2	0.70	14.00
32738	Tr #3	Chip	33.0	0.02		0.87	9.00
32740	Tr #4	Chip	12.0	0.03		0.31	4.00) 3.00
32741	Tr #4	Chip	12.0	0.02		0.10	2.00)
32737	Tr #5	Chip	23.0	0.02		0.64	7.00

* Au. \$40 oz; Ag. \$2 oz; Cu. 50¢ lb.

NOTE:

Brackets denote adjacent widths

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VANCOUVER, B.C.

ENGINEERS & GEOLOGISTS

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surveys and diamond drilling.

The work to date on the Jan claims has been rather superficial but is sufficient to substantiate the presence of interesting mineralization and a program of geological mapping and assessment of the claims is indicated.

The following work is recommended to continue the evaluation of these properties:

1. Preparation of 1" = 400' contoured topographic base map from aerophotographs.
2. A geochemical orientation survey for lead and zinc to be carried out in the Conglomerate Creek valley area using the known orebody as a control. This is to be carried out as early in the season as conditions will allow.
3. Caterpillar trenching to delineate the western extension of the Hillside Zone and to expose and delineate the presently known creek sulphide horizon.
4. To carry out detailed geochemical sampling at intervals suggested by the orientation survey in the Conglomerate Creek valley area combined with detailed geological mapping and prospecting.
5. Diamond drilling of suitable outlined targets on both the Hillside Zone and the Creek Zone to delineate depth extensions of known mineralized zones and evaluate any anomalous lead-zinc situations that may be indicated by the soil survey.
6. To carry out general exploration, geological mapping and prospecting of the Jan claims in order to assess their potential.

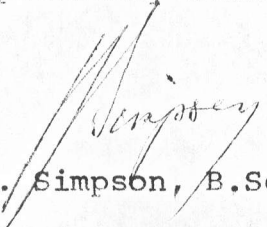
COST ESTIMATES

Preparation of 1" = 400' contoured topographic base map - Miko claims	\$ 500.00
Detailed geological mapping - Miko claims	1,500.00
Detailed geological mapping and prospecting Jan claims	5,000.00
Caterpillar Trenching - Miko claims	5,000.00
Diamond drilling - Miko claims 4,000 to 5,000 feet of drilling	75,000.00
Supervision and sampling	5,000.00

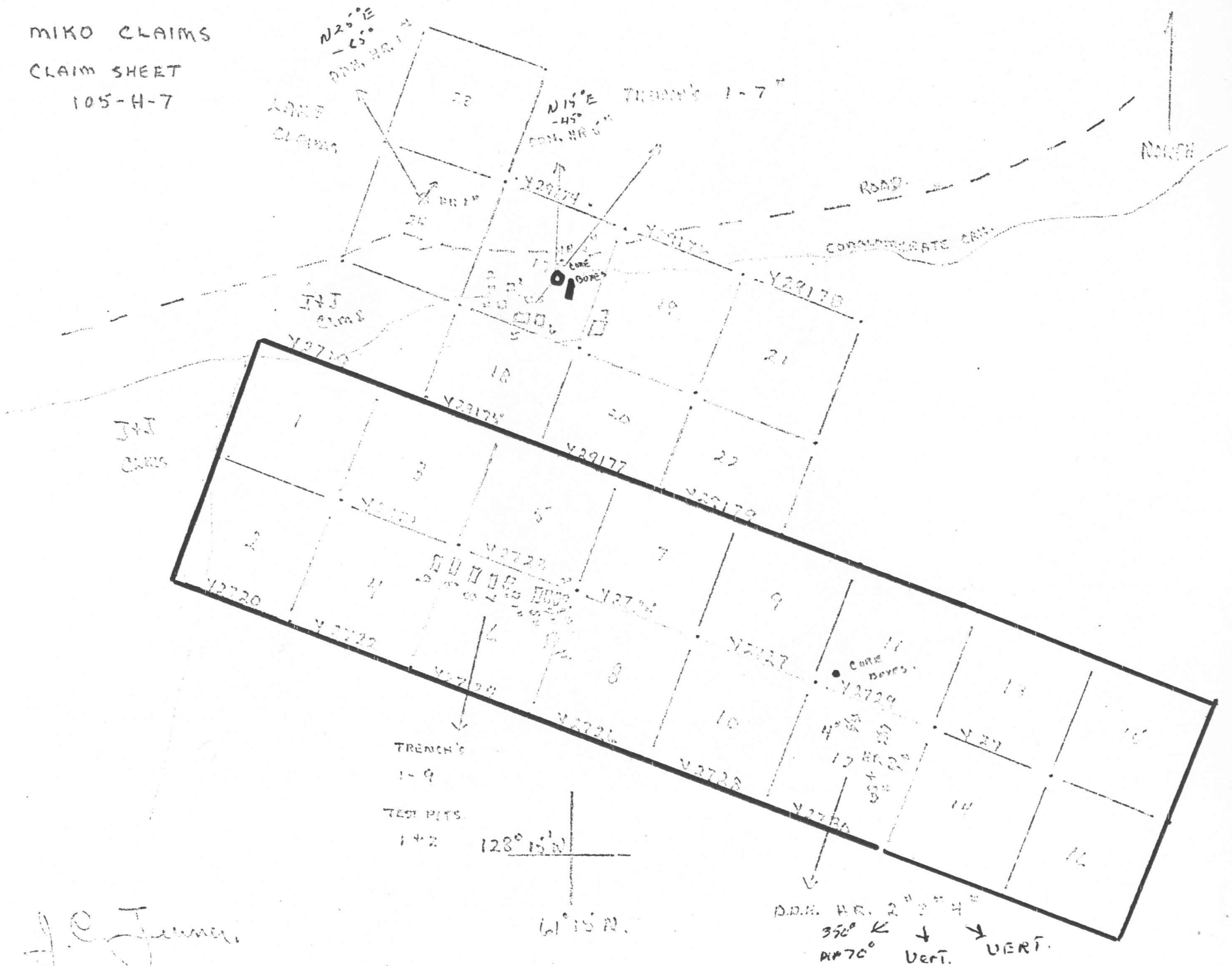
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	Brought forward	\$ 92,000.00
Camp expenses		8,000.00
Consultation fees and preparation of report		2,000.00
Travel		2,000.00
Contingencies		<u>10,000.00</u>
		<u>\$ 114,000.00</u>

Respectfully submitted:


J.G. Simpson, B.Sc., Ph.D.

MIKO CLAIMS
CLAIM SHEET
105-H-7



J.C. Turner

COLLAR

North 7+30N
 East 8+00E
 Elevation 4,000'
 Azimuth 025°
 Dip -52°
 Logged By J.G. Simpson

ALRAE ENGINEERING LTD.

HYLAND RIVER MINES LTD.
 Miko Claims

Hole No. HR #5
 Commenced July 1969
 Finished _____
 Purpose Of Hole Test Mag. Anomaly

DIAMOND DRILL RECORD

DESCRIPTION		CORE LENGTH				ASSAYS				ACCUMULATIVE AVERAGES			
		FROM	TO	ACC WIDTH	SAMPLE NO.	AU OZ.	AG OZ.	% CU		AU W	AG W	CU W	
0.0	6.0	Unconsolidated overburden, glacial drift.											
6.0	12.0	Biotite, chlorite, quartz schist, slightly calcareous along joints and minor fractures - schistosity 40° to core axis.											
12.0	12.5	Grey granite (biotite) vein.											
12.5	14.0	Biotite (chlorite) quartz-schist. Last two feet contains significant amounts of epidote in definite bands.											
14.0	19.0	Epidosite. Quartz-epidote assemblage. Scheelite to 0.16% (previous assay).											
19.0	22.0	Grey granite vein.											
22.0	31.0	Epidosite or epidote quartzite with thin bands of biotite-quartz schist.											
31.0	48.0	Epidote-garnet-quartz skarn alternating with bands of biotite-calc-silicate schist.											

TO:

Hyland River Mines Ltd.,

202 - 543 Granville Street

Vancouver, B.C.



COAST ELDRIDGE

PROFESSIONAL SERVICES DIVISION

WARNOCK HERSEY INTERNATIONAL LIMITED

125 EAST 4TH AVE. VANCOUVER 10, B.C., CANADA



PHONE: (604) 876-4111
TELEX: 04-50353
CABLE ADDRESS:
ELDRICO

FILE NO. **A.3-H.2-69-7749**

DATE **August 18, 1969**

SEMI QUANTITATIVE SPECTROGRAPHIC ANALYSES

We Hereby Certify that the following are the results of semi quantitative spectrographic analyses made on ORE samples submitted.

SAMPLE IDENTIFICATION	Al	Sb	As	Ba	Be	Bi	B	Cd	Ca	Cr	Co	Cu	Ga	Au	Fe
32706 TRENCH 3	4.0	ND	ND	Trace	Trace	0.1	Trace	0.1	Major	0.01	Trace	0.01	ND	Trace	Major
32707 2nd Crk Zone	3.0	ND	ND	Trace	Trace	0.1	Trace	0.1	Major	Trace	Trace	0.02	ND	Trace	Major
32708 5A	4.0	ND	ND	Trace	Trace	0.01	Trace	ND	Major	Trace	Trace	0.01	ND	Trace	Major
32709 2	4.0	ND	ND	Trace	Trace	0.01	Trace	ND	Major	Trace	Trace	0.01	ND	Trace	Major
SAMPLE IDENTIFICATION	Pb	Mg	Mn	Mo	Nb	Ni	Si	Ag	Sr	Ta	Sn	Ti	W	V	Zn
32706 3	*	1.0	*	Trace	ND	Trace	Major	0.1	0.01	ND	ND	0.2	Trace	0.005	*
32707 2 Crk.	*	1.0	*	Trace	ND	Trace	Major	0.1	0.01	ND	Trace	0.2	ND	0.005	*
32708 5A.	*	1.0	*	Trace	ND	Trace	Major	0.01	0.01	ND	Trace	0.2	ND	0.005	*
32709 2.	*	1.0	*	Trace	ND	Trace	Major	0.01	0.01	ND	Trace	0.2	ND	0.005	*

All results expressed as _____

Note: Rejects retained one **PERCENT BY WEIGHT**
Pulps retained one month.

COAST ELDRIDGE PROFESSIONAL SERVICES DIVISION

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CHEMIST

TO: Hyland River Mines Ltd.,
 202 - 543 Granville Street
 Vancouver, B.C.



PHONE: (604) 876-4111
 TELE: 04 50 151
 CABLE ADDRESS:
 ELDRICO

Certificate of Assay
COAST ELDRIDGE
 PROFESSIONAL SERVICES DIVISION
 WARNOCK HERSEY INTERNATIONAL LIMITED
 125 EAST 4TH AVE. VANCOUVER 10, B.C., CANADA

FILE NO. **A.3-H.2-69-7749**
 DATE **August 19, 1969**

MIKO CLAIMS

We Hereby Certify that the following are the results of assays made by us upon submitted ORE samples

MARKED	GOLD		SILVER	Tungsten	Lead (Pb)	Zinc (Zn)	PER CENT.	PER CENT.	PER CENT.
	OUNCES PER TON	VALUE PER TON	OUNCES PER TON	(Wt.%) PER CENT.	PER CENT.	PER CENT.			
MIKO 32701 - Trench 6' - 7' CHIP 0-7'		\$	1.1		0.34	1.18			
6 # 32702 6 - 5' CHIP Trace 7' - 12'			12.6		9.62	9.70			
32703 6 - 12' CHIP - 12'-24'			1.2		0.96	0.34			
32704 6 - 5' CHIP - 24'-29'			3.2		3.33	4.99			
32705 HR 5 - 15' - 19' Core				0.16					
MIKO 17 # 32710 6 - Selected. Trace		-	2.0		34.89	27.98	BOULDIER	HI GRADE	
↓ LOWER ZONE									

Gold calculated at \$ per ounce

Note. Rejects retained one week.
 Pulps retained one month.
 Pulps and rejects may be stored for a maximum of one year by special arrangement.

Unless it is specifically stated otherwise, gold and silver values reported on these sheets have not been adjusted to compensate for losses and gain inherent in the fire assay process.

H. Skye

Provincial Assayer

TO:

021171



Diamond Drilling
Miko claims



PHONE: (604) 876-4111
TELEX: 04-50353
CABLE ADDRESS:
ELDRICO

2081

Nyland Silver Mines

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Certificate of Assay
COAST ELDRIDGE
PROFESSIONAL SERVICES DIVISION
WARNOCK HERSEY INTERNATIONAL LIMITED
125 EAST 4TH AVE. VANCOUVER 10, B.C., CANADA

FILE NO. A.3-H.1-69-8360

DATE Sept. 23, 1969

105-H-1+2

We Hereby Certify that the following are the results of assays made by us upon submitted MIKO CLAIMS Ore samples

MARKED MIKO 6 #	GOLD		SILVER	Lead (Pb)	Zinc (Zn)	Cadmium (Cd)	PER CENT.	PER CENT.	PER CENT.
	OUNCES PER TON	VALUE PER TON	OUNCES PER TON	PER CENT.	PER CENT.	PER CENT.			
TRENCH									
7 32726 7' CHIP			1.8	2.52	3.08				
8 32727 4' CHIP			0.53	1.03	3.52	0.03			
MIKO 4 9 32728 10' CHIP 12'-20'			1.4	2.74	4.33				
9 32729 8' CHIP 28'-36'			1.7	2.43	3.30				

/cr

Gold calculated at \$ per ounce

Note. Rejects retained one week.
Pulps retained one month.
Pulps and rejects may be stored for a maximum of one year by special arrangement.

Unless it is specifically stated otherwise, gold and silver values reported on these sheets have not been adjusted to compensate for losses and gain inherent in the fire assay process.

H. J. [Signature]

Provincial Assayer

TO:

Hyland Silver Mines,
202 - 543 Granville Street,
Vancouver, B. C.



Certificate of Assay
COAST ELDRIDGE
PROFESSIONAL SERVICES DIVISION
WARNOCK HERSEY INTERNATIONAL LIMITED
125 EAST 4TH AVE. VANCOUVER 10, B.C., CANADA



PHONE: (604) 876-4111
TELEX: 04-50353
CABLE ADDRESS:
ELDRICO

FILE NO. A.3-H.1-69-8360

DATE Sept. 23, 1969

MIKO CLAIMS

We Hereby Certify that the following are the results of assays made by us upon submitted Ore samples

MIKO MARKED	GOLD		SILVER	Lead (Pb)	Zinc (Zn)	Copper (Cu)	Cadmium(Cd)	Bismuth(Bi)	Tungsten
	OUNCES PER TON	VALUE PER TON	OUNCES PER TON	PER CENT.	PER CENT.	PER CENT.	PER CENT.	PER CENT.	PER CENT. (WO ₃)
		\$							
Trench 5 E 32711 14' CHIP Crk 2	0.02	0.70	2.3	21.94	18.05		0.10	0.03	
5 W 32712 16' " Crk 2	0.02	0.70	2.9	19.24	13.81				
5 E 32713 Best 10' chip Crk 2	0.03	1.05	1.9	27.14	21.76				
5 W 32714 " " " "	Trace		1.9	26.57	21.56				
Hill 1 32715 10' CHIP - 11'-21'	0.005	0.18	1.6	1.91	2.00	0.06			
MIKO 1 32716 12' CHIP	Trace		0.8	0.73	5.47	0.18			
2 32717 11' CHIP	Trace		10.8	8.22	14.01		0.07	0.10	
6 3 32718 15' CHIP - 7'-22'	Trace		3.8	2.94	3.86		0.02	0.05	Trace
3 32719 12' CHIP 22'-34'	Trace		1.6	0.69	0.70	0.60			
3 32720 14' CHIP 34'-48'	Trace		1.1	0.83	1.06				
4 32721 22' CHIP	Trace		1.3	0.37	0.55				
5 32722 8' CHIP 11-19	0.005	0.18	2.0	1.05	1.08				
6. 32723 TEST PIT 1* GRAB			1.9	2.89	5.04				
32724 TEST PIT 2* GRAB			3.8	5.15	5.93				
7 32725 3' CHIP			2.3	4.70	3.86				

Gold calculated at \$ per ounce

Note. Rejects retained one week.
Pulps retained one month.
Pulps and rejects may be stored for a maximum of one year by special arrangement.

Unless it is specifically stated otherwise, gold and silver values reported on these sheets have not been adjusted to compensate for losses and gain inherent in the fire assay process.

H. H. H.

Provincial Assayer

.....2

TO:

Hyland River Mines,
202 - 543 Granville Street,
Vancouver, B. C.



Certificate of Assay
COAST ELDRIDGE
PROFESSIONAL SERVICES DIVISION
WARNOCK HERSEY INTERNATIONAL LIMITED
125 EAST 4TH AVE. VANCOUVER 10, B.C., CANADA



PHONE: (604) 876-4111
TELEX: 04-50353
CABLE ADDRESS:
ELDRICO

FILE NO. **A.3-H.1-69-8658**

DATE **October 2, 1969**

JAN CLAIMS

We Hereby Certify that the following are the results of assays made by us upon submitted Ore samples

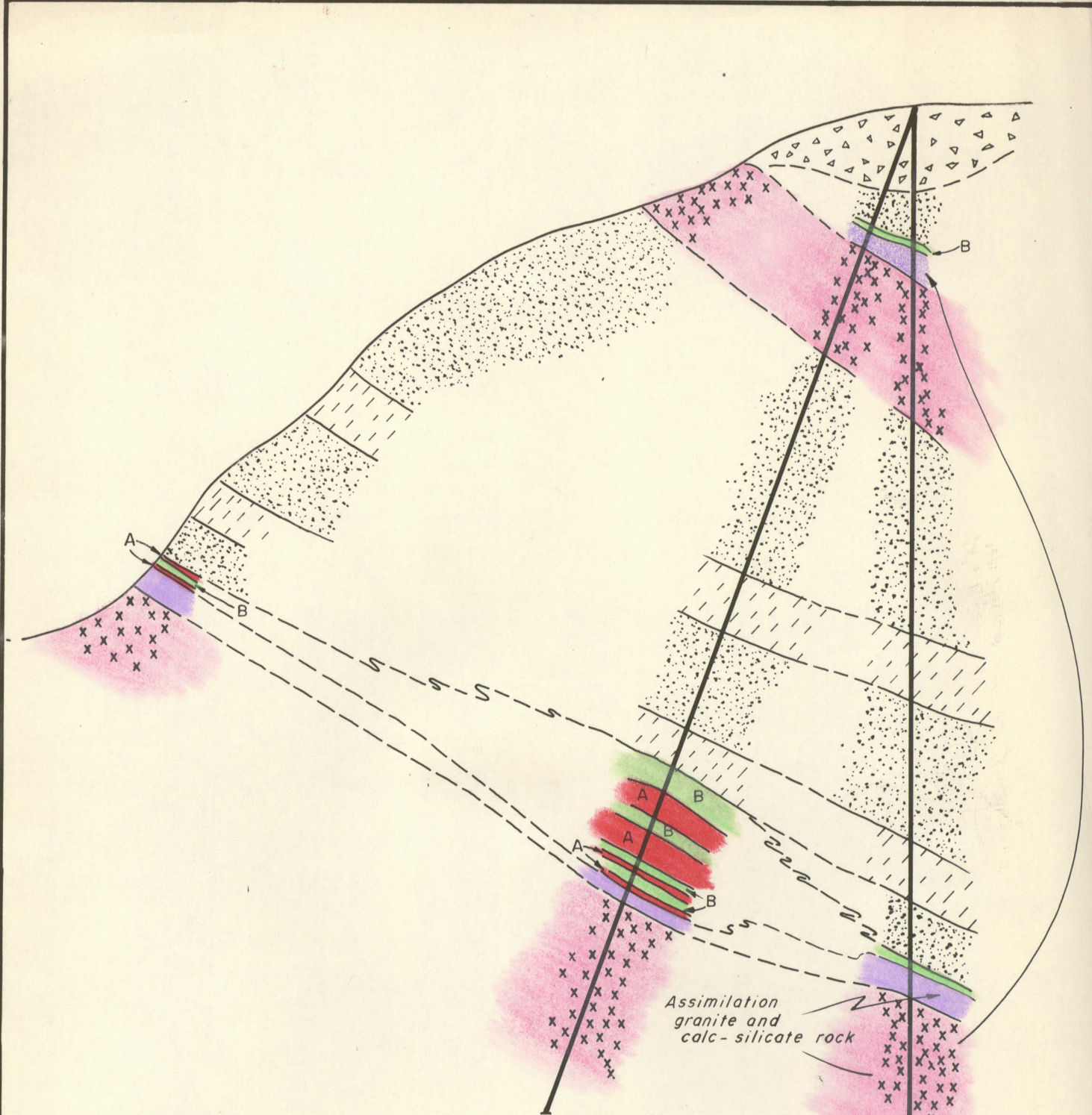
MARKED	GOLD		SILVER	Copper (Cu)	PER CENT.	PER CENT.	PER CENT.	PER CENT.	PER CENT.
	OUNCES PER TON	VALUE PER TON	OUNCES PER TON	PER CENT.					
TRENCH JAN 4 th		\$							
1 32730 6' CHIP-0-6'	0.02	0.70		0.72					
1 32731 6' " 6-12'	0.01	0.35		0.90					
1 32732 6' " 12-18'	0.01	0.35		0.56					
1 32733 6' " 18-24'	0.005	0.18		0.62					
1 32734 6' " 24-30'	Trace			0.51					
1 32735 6' " 30-36'	0.01	0.35		0.92					
1 32736 6' " 36-42'	0.005	0.18		0.30					
5 32737 GRAB	0.02	0.70		0.64					
3 32738 GRAB-33'	0.02	0.70		0.87					
2 32739 10' CHIP	0.20	7.00	0.2	0.70					
4 32740 12' CHIP 0-12'	0.03	1.05		0.31					
4 32741 12' " 12-24'	0.02	0.70	0	0.10					

1oz Gold calculated at \$ per ounce


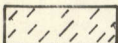
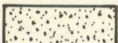
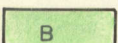
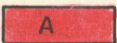
Note. Rejects retained one week.
Pulps retained one month.
Pulps and rejects may be stored for a maximum of one year by special arrangement.

Unless it is specifically stated otherwise, gold and silver values reported on these sheets have not been adjusted to compensate for losses and gain inherent in the fire assay process.

Provincial Assayer



LEGEND

-  Granitic intrusive
-  Marble
-  Calc-silicate rock
-  Skarn (epidote)
-  Mineralized skarn

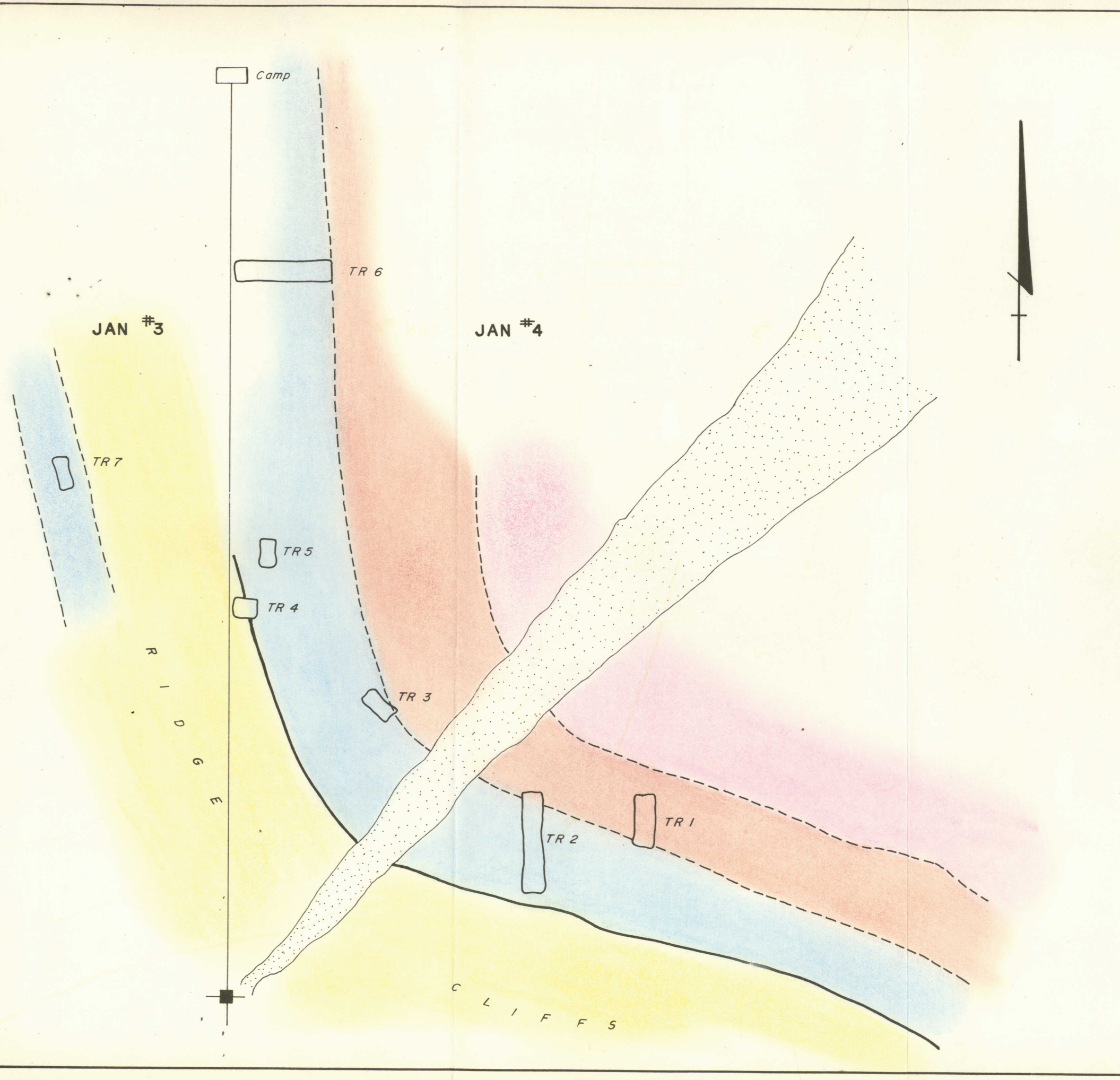
HYLAND RIVER MINES LTD.	
MIKO CLAIMS GROUP	
<i>Stylized section through DDH #s</i>	
<i>HR#2 and HR#3 Az of Section 350°</i>	
Scale:	Horizontal Vertical
<i>1" = 30'</i>	



LEGEND

- C Metasediments
- B Contact scarn and calc-silicate rocks, with mineralized zones.
- A Granitic intrusive
- Possible dislocation zone

HYLAND RIVER MINES LTD.
 MIKO CLAIMS
 (After Mr. C. Turner)
 Scale: 1" = 1500' approx.



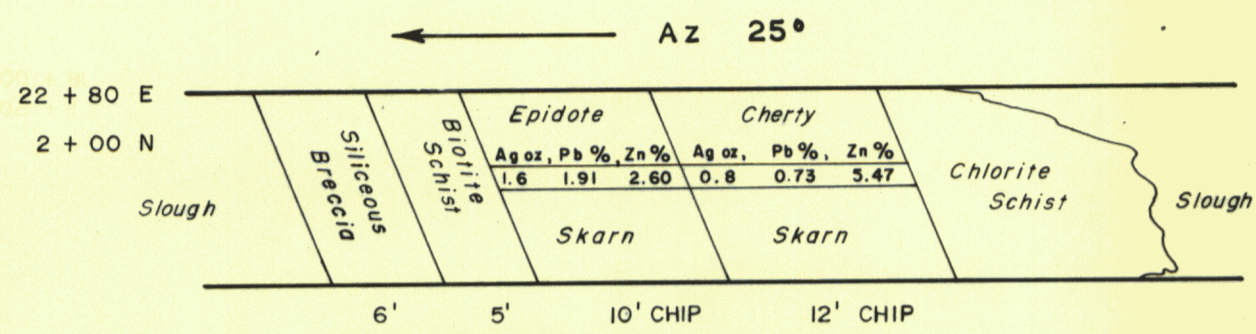
LEGEND

- Quartzite
 - Limestone
 - Argillaceous schist
 - Quartz monzonite
- } mineralized zone

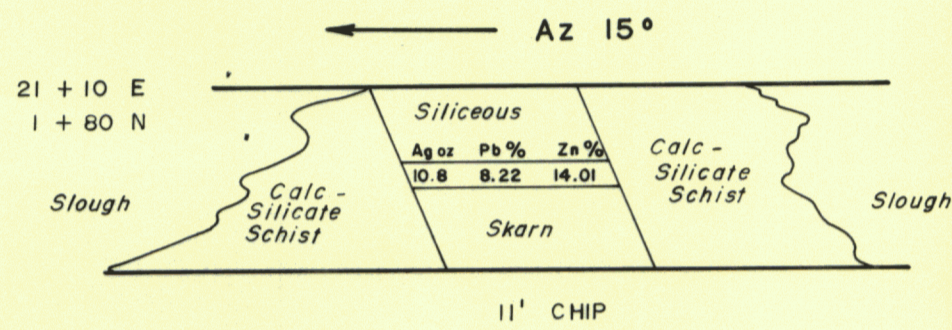
SYMBOLS

- Limit of mineralization
- Inferred geological boundary
- 1969 trenches
- Slide, possible fault zone
- Claim post, showing claim line

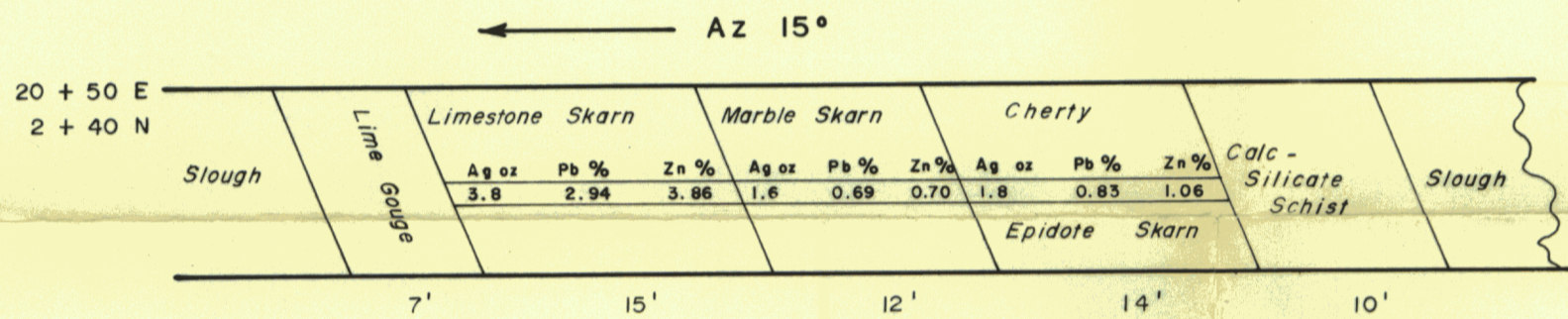
HYLAND RIVER MINES LTD.
 JAN CLAIMS
 Geology
 Scale: 1" = 1500' approx.



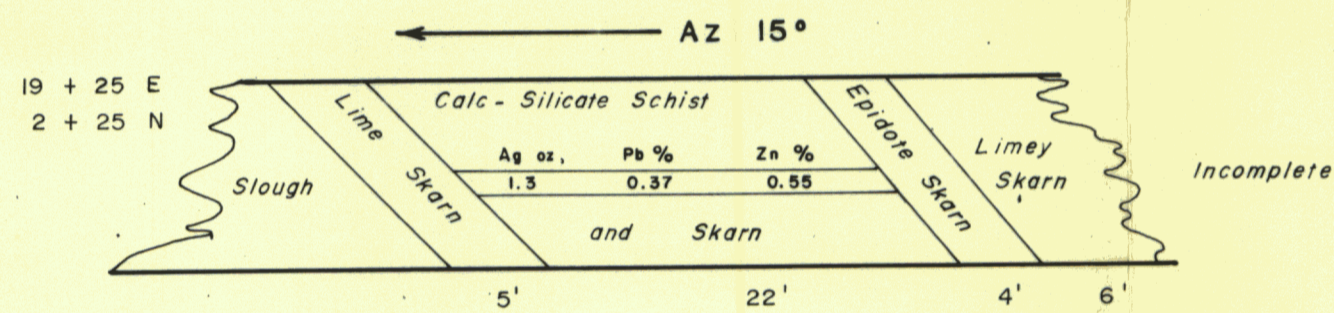
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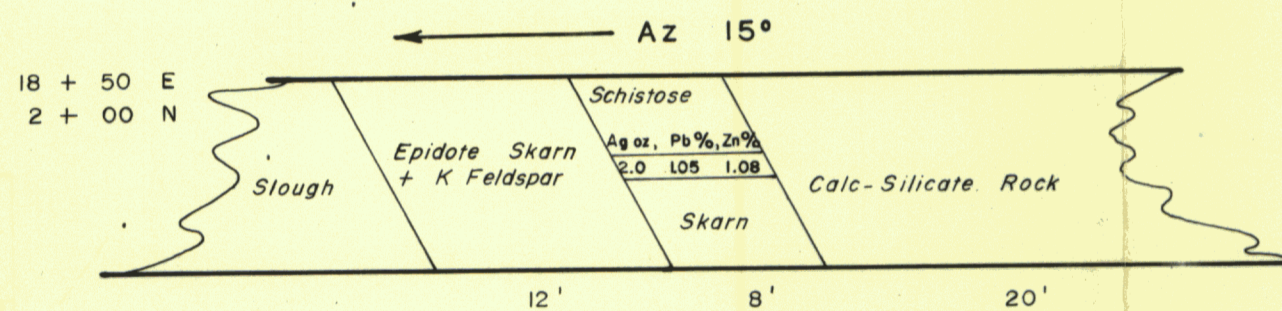
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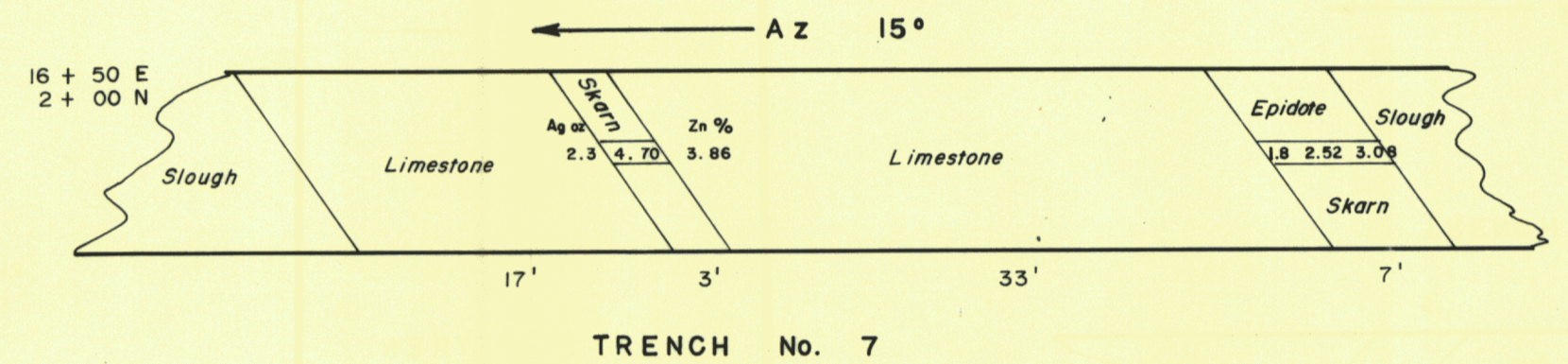
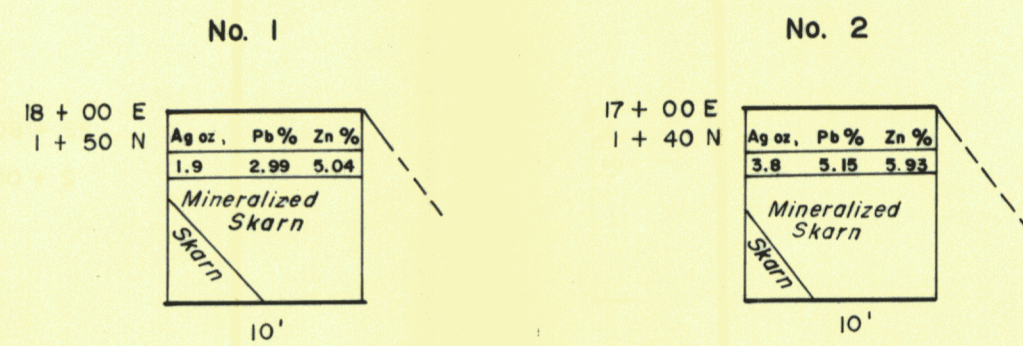
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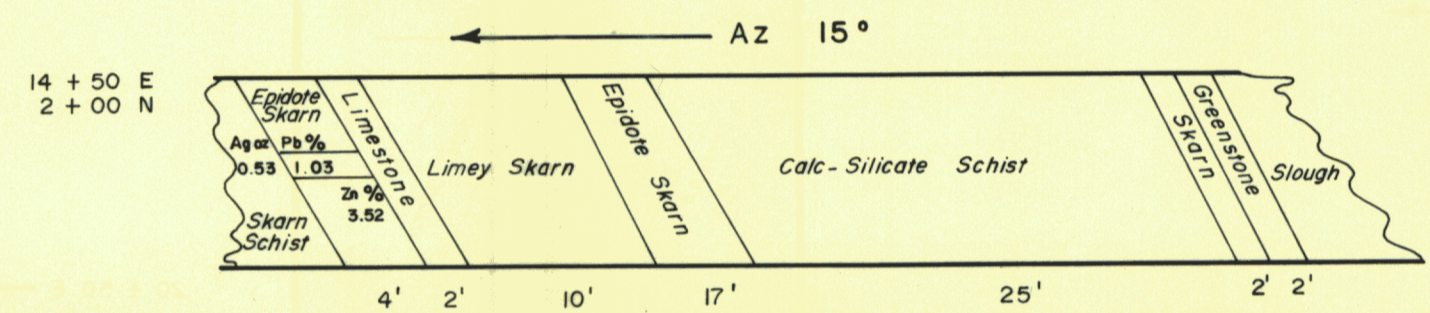
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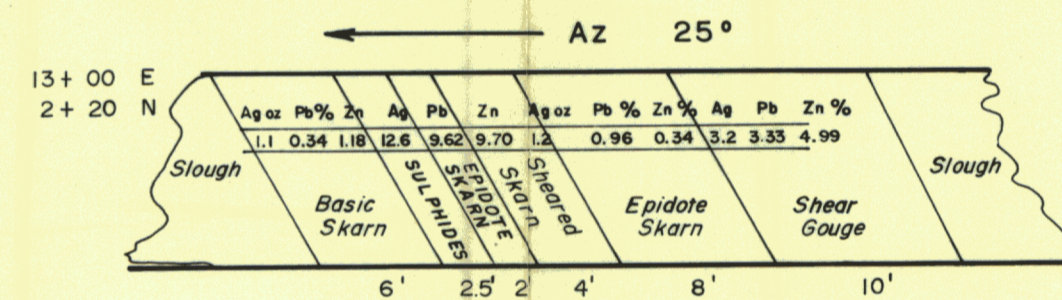
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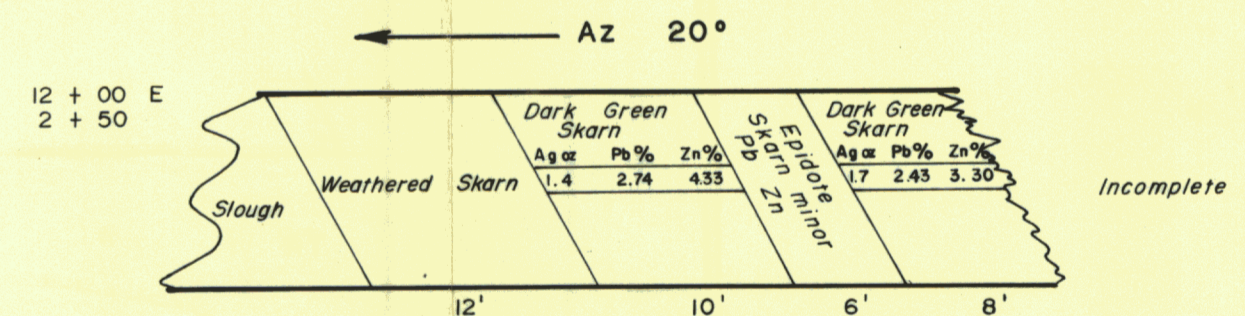
TRENCH No. 7



TRENCH No. 8



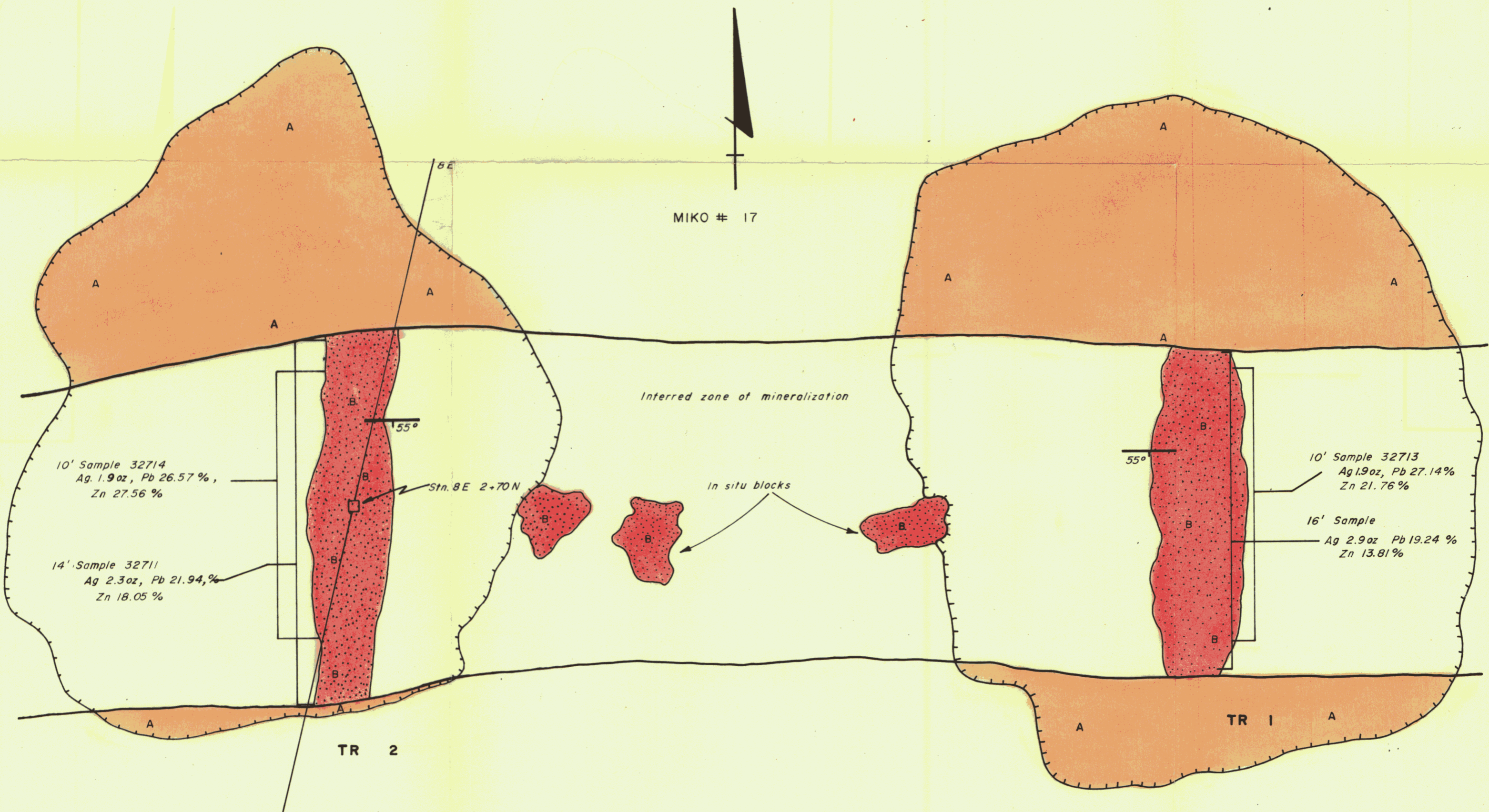
TRENCH No. 6



TRENCH No. 9

HYLAND RIVER MINES LTD.
STYLIZED TRENCH SECTIONS
 FACING EAST

ALRAE ENGINEERING LTD.
 GEOLOGISTS AND ENGINEERS
 VANCOUVER B. C.



- Massive sulphide exposed
- Argillaceous metasediments
- Boundary of sulphide horizon
- Cat trench

HYLAND RIVER MINES LTD

PLAN OF CAT TRENCHES No.'s 1 & 2
CREEK ZONE

Scale: 1" = 4'

ALRAE ENGINEERING LTD
GEOLOGISTS AND ENGINEERS
Vancouver B. C.

MIKO 25

MIKO 24

D.D.H.
RH 1

Manarch
Camp

D.D.H.
RH 5

Conglomerate

Creek

MIKO 17

MIKO 15

MIKO 18

MIKO 20

MIKO 1

MIKO 3

MIKO 5

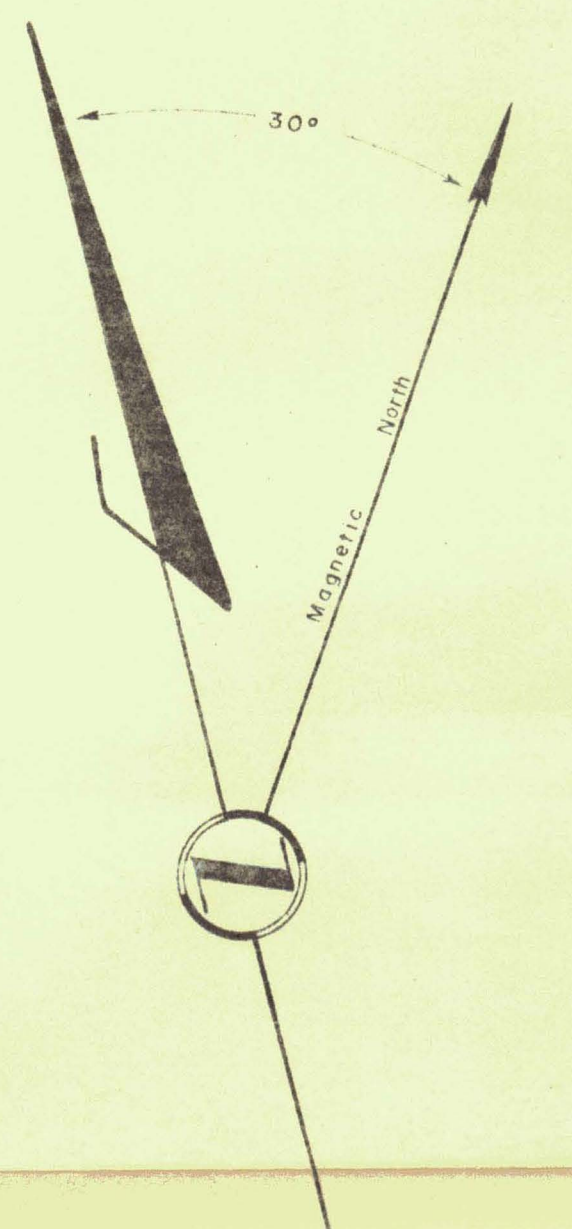
MIKO 7

MIKO 2

MIKO 4

MIKO 6

MIKO 8



S Y M B O L S

- 24 ppm Zinc
- Reading above calculated threshold value
- Anomalous area, with more than 2 adjacent readings above threshold value



HYLAND RIVER MINES LTD.
GEOCHEMICAL SURVEY - ZINC
 ALSAE ENGINEERING LTD.
 GEOLOGISTS AND ENGINEERS
 VANCOUVER, B.C.

DESIGNED: F. J.	SCALE HOR. VERT. 1 inch = 100 Feet
DRAWN: S. H.	
CHECKED: S. H.	
DATE: Dec. 8, 1963	DWG. No.



S Y M B O L S

- Escarpment
- Hand blasted trench
- Conglomerate trench
- Claim post
- Claim line
- Cut line and station

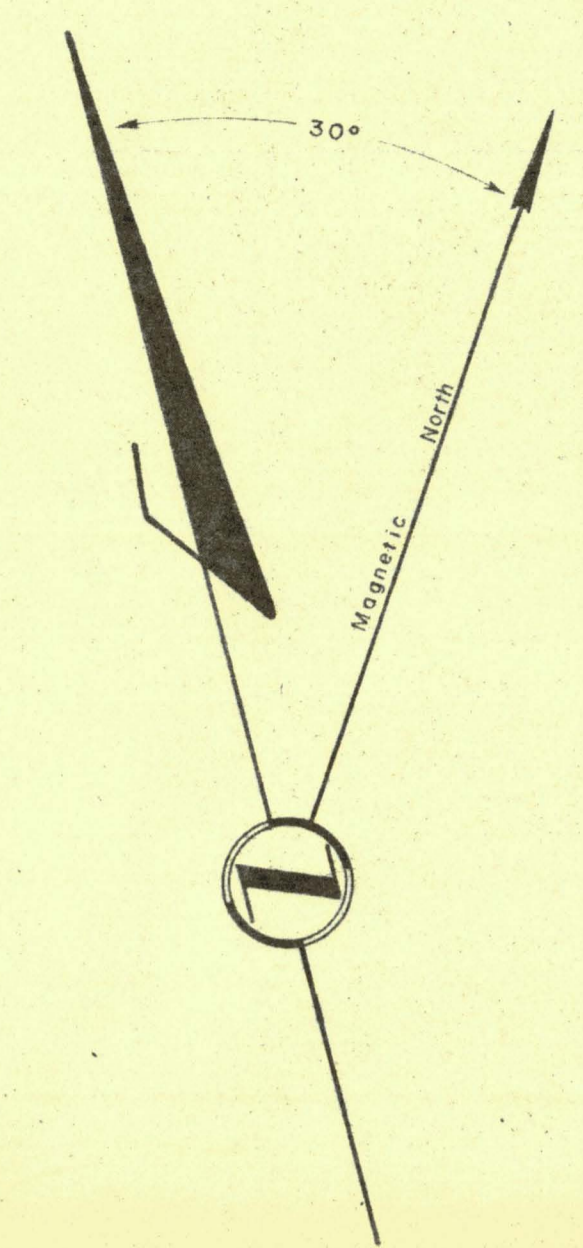
MIKO 7

MIKO 8

HYLAND RIVER MINES LTD.	
MIKO CLAIMS	
ALKAE ENGINEERING LTD. GEOLOGISTS AND ENGINEERS VANCOUVER, B.C.	
DESIGNED: J.S.	SCALE: HOR. VERT. 1 inch = 100 Feet
DRAWN: J.S.	CHECKED: J.S.
DATE: Dec. 1948	DWG. No.

MIKO 25

MIKO 24



S Y M B O L S

- 40 ppm Lead
- 96 Reading above calculated threshold value
- Anomalous area, with more than 2 adjacent readings above threshold value

MIKO 7

MIKO 8

HYLAND RIVER MINES LTD
GEOCHEMICAL SURVEY - LEAD
 ALKAM ENGINEERING LTD.
 GEOLOGISTS AND ENGINEERS
 VANCOUVER, B.C.

DESIGNED: E. J.	SCALE: HOR.
DRAWN: H. E.E.	VERT: 1 inch = 100 Feet
CHECKED: P. E.C.	
DATE: Feb. 16, 1966	DWG. No.



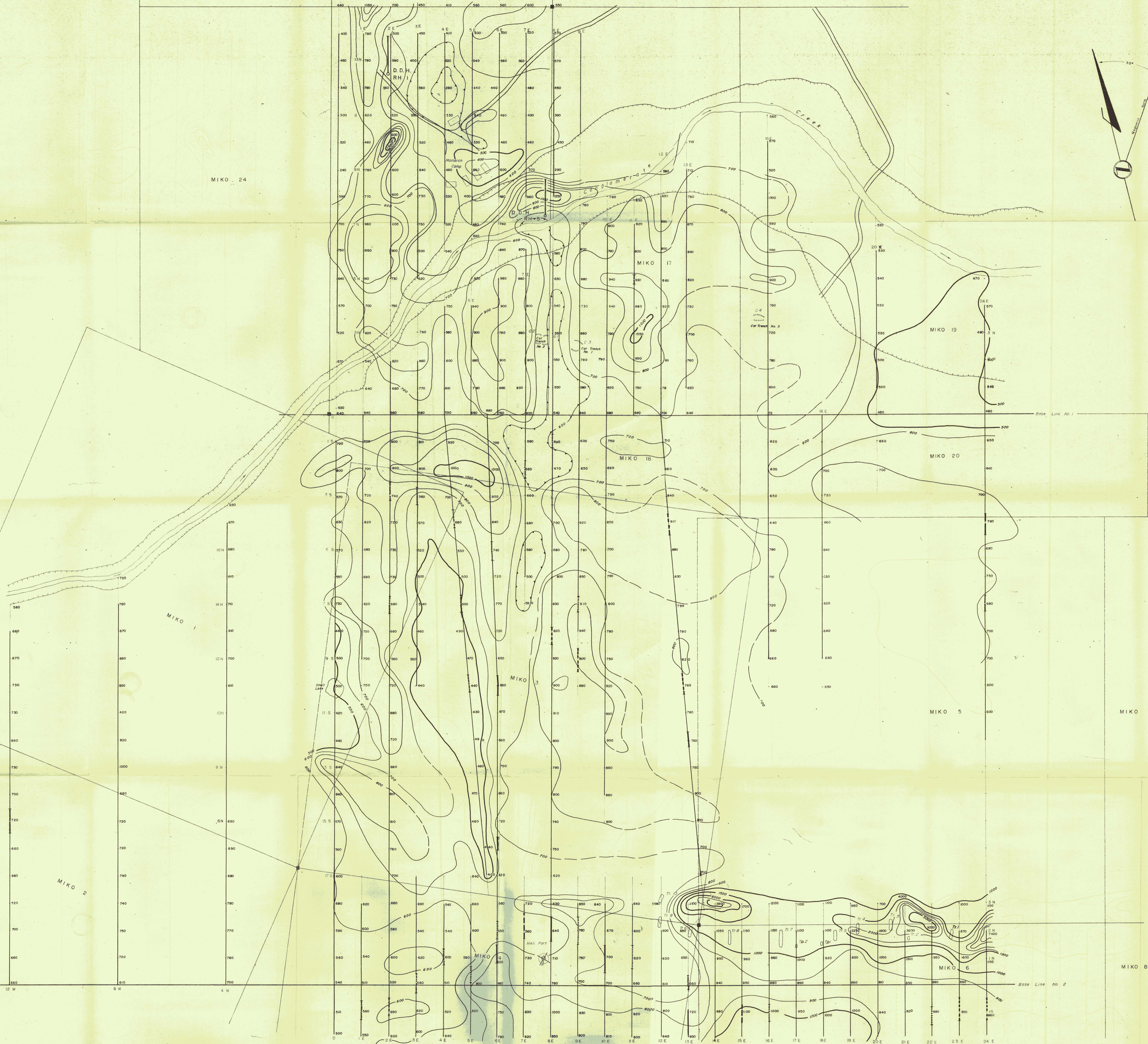
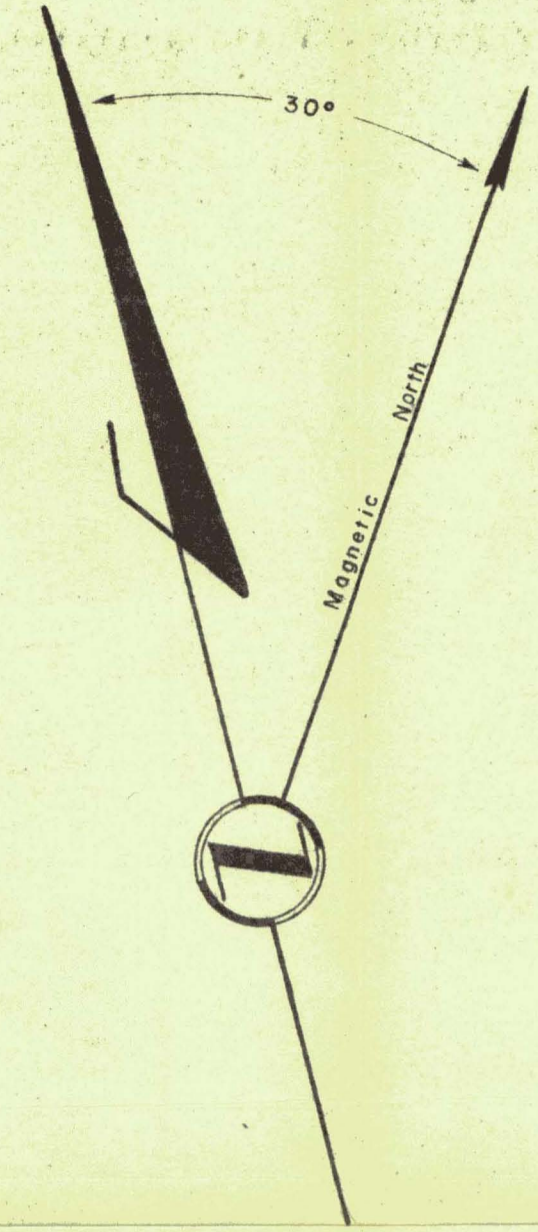
LEGEND

- Quartz porphyry
- Undifferentiated schists, argillites and minor quartzites
- Limestone
- Epitaxial rich schists
- Mineralized schists and massive sulphides
- Granite - granodiorite

SYMBOLS

- Mineralized floor
- Observed granite massediment boundary
- Inferred granite massediment boundary
- Observed lithological boundary
- Inferred lithological boundary
- Limit of mineralization altitude zone
- Fault observed
- Fault inferred
- Strike and dip
- Outcrop
- Trench
- Dike
- Road
- Altitude as affected to datum point

HYLAND RIVER MINES LTD.	
GEOLOGY	
ALBAE ENGINEERING LTD. GEOLOGISTS AND ENGINEERS VANCOUVER, B.C.	
DESIGNED BY E.F.	SCALE: HORIZ. 1 INCH = 100 FEET
DRAWN BY E.F.	CHECKED BY E.F.
DATE: FEB. 21, 1958	DWG. No.



LEGEND

- Lines covered by E.M. survey
- Strong E.M. anomaly
- Moderate E.M. anomaly
- Weak E.M. anomaly
- Very weak E.M. anomaly

MAGNETIC CONTOUR INTERVAL EXPLANATION

Interval	0	1000	2000	3000	4000	5000
Interval	0	1000	2000	3000	4000	5000
Interval	0	1000	2000	3000	4000	5000

SYMBOLS

- Center line
- Center line showing lines

HYLAND RIVER MINES LTD.
MAGNETOMETER AND E.M. SURVEY
 ALBAE ENGINEERING LTD.
 GEOSY AND SURVEYING
 VANCOUVER, B.C.

DESIGNED: E.F.
 DRAWN: H.S.
 CHECKED: E.F.
 DATE: 24. 9. 1959

SCALE: HORIZ. 1 inch = 100 feet
 VERT. 1 inch = 100 feet
 SHEET No. 1