

85-280
14089

A GEOLOGICAL - GEOPHYSICAL - GEOCHEMICAL REPORT

ON THE

**TOM GROUP
SWAKUM MOUNTAIN AREA
MERRITT, BRITISH COLUMBIA
NICOLA MINING DIVISION**

921/2E, 7E

CO-ORDINATES

**50°15'3" NORTH LATITUDE
120°42'30" WEST LONGITUDE**

OWNER

**DECADE INTERNATIONAL DEVELOPMENT LTD.
1960 - 789 WEST PENDER STREET
VANCOUVER, BRITISH COLUMBIA**

OPERATOR

DECADE INTERNATIONAL DEVELOPMENT LTD.

CONSULTANT

HAROLD M. JONES, P.Eng.

28 AUGUST 1985

**HAROLD M. JONES, P.ENG.
CONSULTING GEOLOGIST**

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

14,089

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SUMMARY

Between July 14-18, 1985 a consultant geologist, aided by one field assistant, conducted a magnetometer-geological survey on the Dick claim and a geochemical survey on the Tom and Dick claims. These claims are a part of the 40 unit Tom Group, located on Swakum Mountain in the Nicola Mining Division, 19 km north-northeast of Merritt.

A grid was laid out on the Dick claim. It consisted of lines spaced at 200 metres with stations marked on each line at 50 m intervals. Magnetometer readings were taken at each station on each line, with numerous check readings made at base stations located along the east claim boundary.

Geology was noted along each grid line, and all outcrops tied into the grid.

Soil samples were collected from each station on two lines on the Dick claim. Samples were also collected from the corresponding lines on the 1984 grid on the Tom claim. All samples were analyzed by Acme Analytical Laboratories, Vancouver, B.C. for silver, lead, zinc, copper and arsenic by the I.C.P. method.

Geological mapping found that all outcrops were of Nicola Group rocks. These included vari-coloured fine-grained to porphyritic andesites, amygdaloidal flows and volcanic breccias. Some rocks were strongly chloritized and/or epidotized, and for convenience called greenstones. No structural features were seen.

The magnetic data showed little variations between stations. A number of weak northerly-trending anomalies were recorded. The magnetic data does not appear to define a limestone-volcanic contact.

Geochemical soil sampling was of a reconnaissance nature. Assay results indicate that several scattered areas have anomalous copper, silver, and arsenic values; others have elevated but not anomalous zinc assays.

It is concluded that a limestone-volcanic contact was not located by the geological-geophysical survey. It is also concluded that the anomalous silver and

arsenic geochemical assays may be significant.

It is recommended that all existing grid lines on the Tom and Dick claims be soil sampled and that any anomalous areas be sampled in detail. This work is estimated to cost \$ 5,000.

INTRODUCTION

The Tom, Dick, John and Harry claims (Tom Group) are located in the Merritt area of southwestern British Columbia, in the Nicola Mining Division. They cover an aeromagnetic anomaly which, from a study by Trenholme (1984), was hypothesized as representing a favourable andesite-limestone contact in the Nicola Group rocks. He hypothesizes that the contact swings south, near the old Thelma mine, to the west, then northwest, and finally to the southeast, thus outlining the nose of a south-plunging anticline.

The limestone-volcanic contact just north of the claims contains several silver-lead-zinc deposits - the old Thelma, Alameda and Lucky Mike - from which small shipments were made in the early 1930's. If Trenholme's hypothesis is correct, then the magnetic low on the claims could reflect limestone hosting other silver-bearing deposits along its contact.

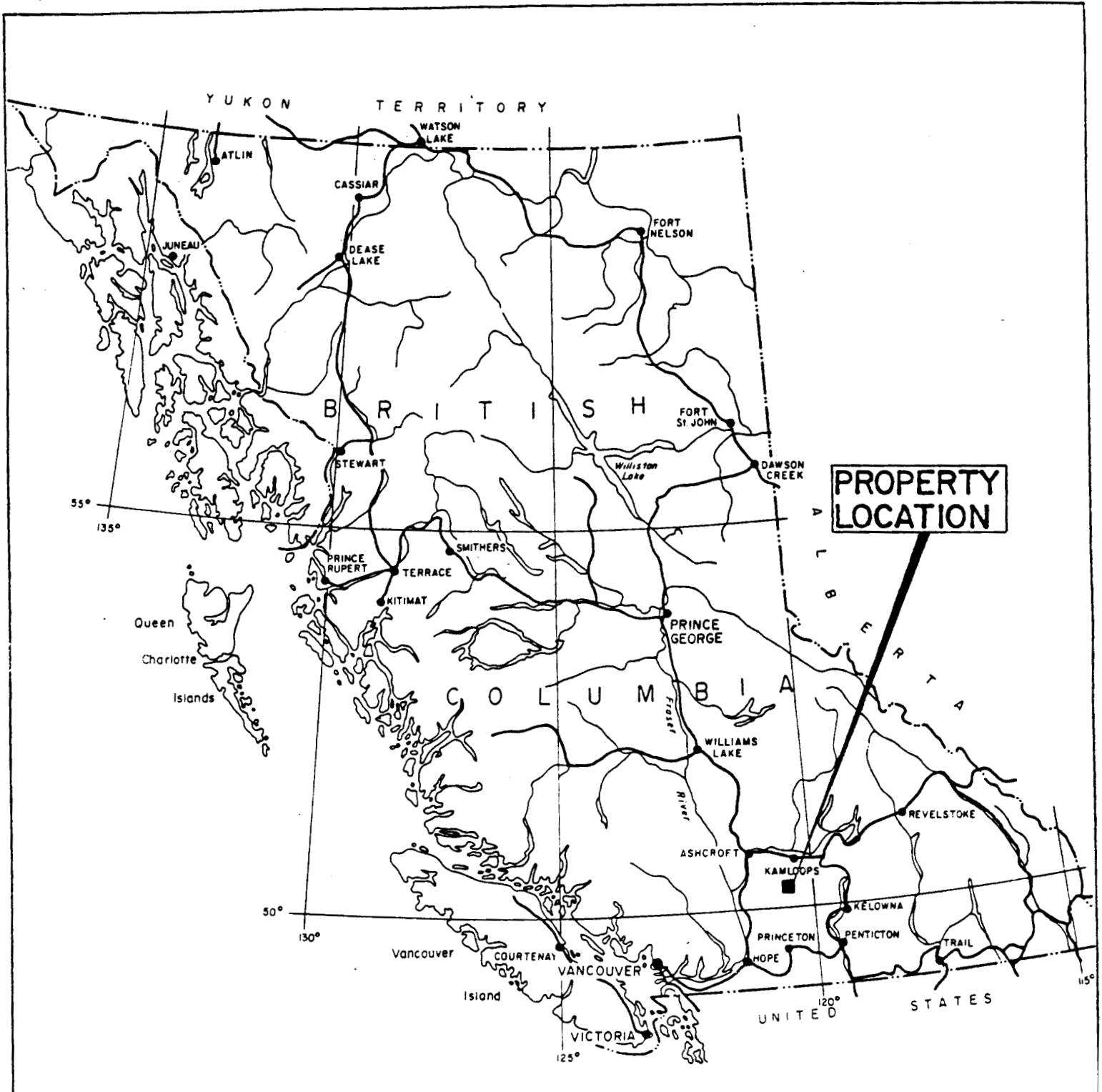
A geological-magnetometer survey was conducted on the Tom claim in 1984. Similar surveys were recently completed on the Dick claim. In addition, two reconnaissance soil lines were run across Tom and Dick claims.

This report describes the work performed on the Tom and Dick claims between July 14-18, 1985 and the results obtained.

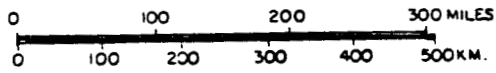
Location and Access

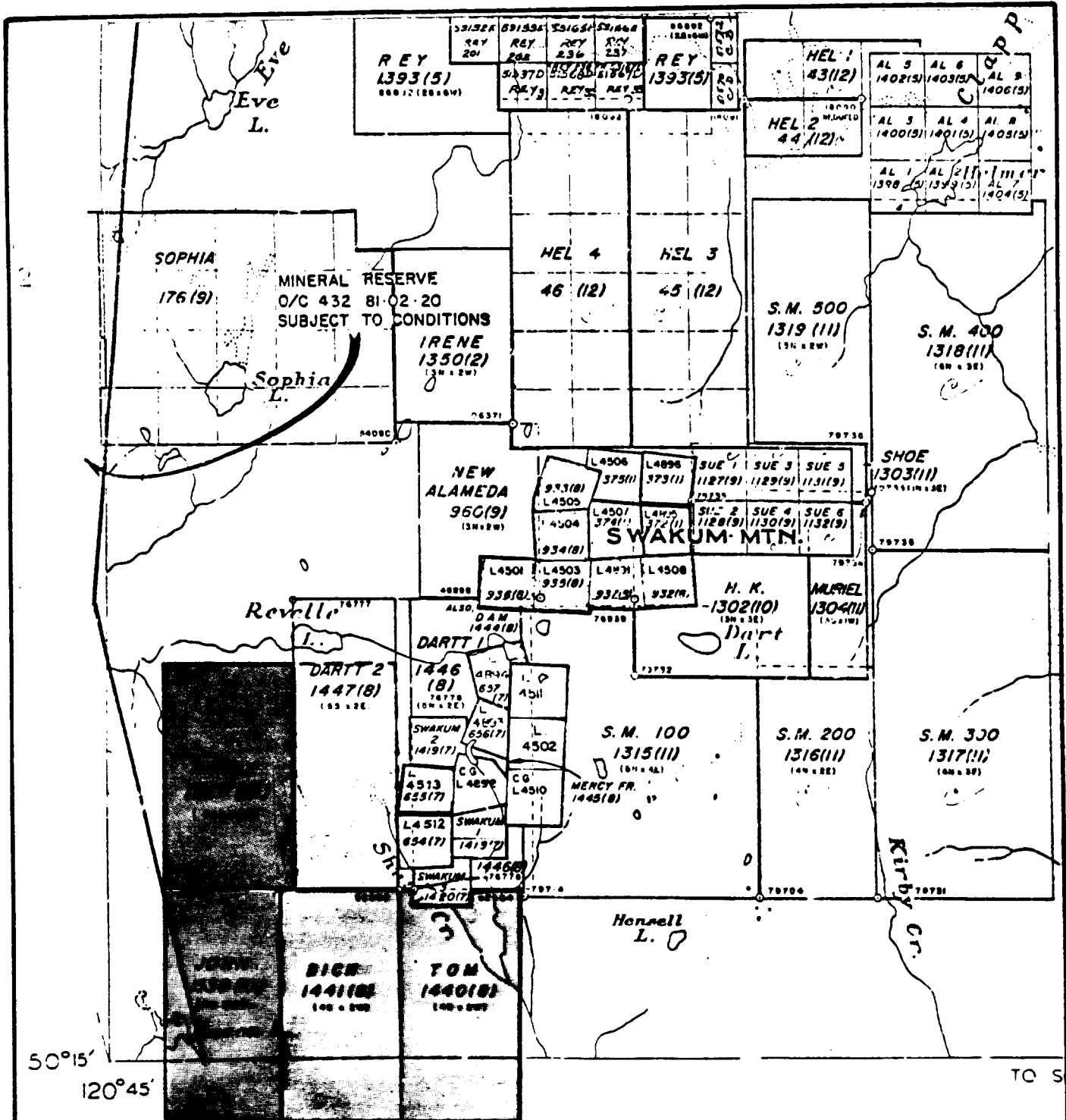
The Tom, Dick, John and Harry claims (Tom Group), are located in the Nicola Mining Division, 3 km due south of Swakum Mountain and 19 km north-northeast of Merritt.

The claims are very accessible by the Swakum Mountain logging road. At about 22 km on this road it passes through the southeast corner of the Tom claim. At 22.5 km this road crosses the old Swakum Mountain access road. This latter road passes along the eastern boundary of the Tom claim (see Figure 2).



DECADE INTERNATIONAL DEVELOPMENT LTD.		
H.M. JONES & ASSOCIATES INC.		VANCOUVER, B.C.
TOM CLAIM GROUP		
LOCATION MAP		
MERRITT AREA		
N.T.S. 92 I-7E		NICOLA M.D., B.C.
SCALE AS SHOWN	AUGUST 1985	FIG. 1
H. M. JONES		





50°15'
120°45'

For up to date information on claims in any area you should apply to the Mining Registrar.

DEPARTMENT OF MINES

DECADE INTERNATIONAL DEVELOPMENT LTD.
 H.M. JONES & ASSOCIATES INC. VANCOUVER B.C.

**TOM CLAIM GROUP
 CLAIM MAP**

MERRITT AREA
 N.T.S. 92I-7E NICOLA MD., B.C.

0 1 2 3 KM.

SCALE 1:50,000
 H.M. JONES

AUGUST 1985
 FIG. 2

FROM 92I-7E CLAIM MAP, JULY 13, 1984.



Topography and Vegetation

Topography of the claims area is one of gentle relief. Low rolling hills are separated by generally shallow draws. An exception to this is Shuta Creek, which is contained in a relatively deep, very steep sided gulley.

Vegetation is variable. A number of grassy meadows and small ridges are scattered throughout open to thickly forested areas. The latter contains many windfalls, making foot progress slow.

Local areas were logged in the past. Small stands of commercial grade spruce and fir are present within the claims.

Property

The Tom Group consists of four claims totalling 40 units. They are:

Claim Name	No. of		Date of Record
	Units	Record Nos.	
Tom	8	1440(8)	8 August 1983
Dick	8	1441(8)	8 August 1983
Harry	16	1577(10)	10 October 1985
John	8	1538(10)	10 October 1985

The Harry claim is in contravention with Dartt 2 claim, which it partially overlies (see Figure 2). This overstaking occurred as a result of the government claim map, indicating Dartt 2 had been cancelled, which in actuality it had not.

All claims are owned by Decade International Development Ltd., 1960-789 West Pender Street, Vancouver, B.C., V6C 1H2.

History

A number of old mine workings are known on and south of Swakum Mountain. These were all located between 1900 and 1916. They include the Last Chance, Thelma Group, Alameda Group, Corona, and Gold Gossan Group. These deposits all occur in the greenstone and limestones of the Nicola Group. The limestones are interbedded with the greenstones and are thought to be a series of lenses rather than continuous beds (Cockfield, W.E., 1961).

The deposits consist of veins, disseminations and replacements carrying lead, zinc and copper minerals, and in one deposit, scheelite. Some of the deposits contain tetrahedrite. It is from the latter deposits that limited shipments of selected ore was mined and shipped to the Trail Smelter. Reported production (Cockfield, W.D., 1961) was:

Mine	Tons	Ozs. Gold	Ozs. Silver	Lbs. Copper	Lbs. Lead	Lbs. Zinc
Last Chance	26	2.0	137	1,932	1,753	-
Alameda	3	1.0	52	-	576	-
Thelma	89	1.0	7,419	-	9,683	10,237

Of particular interest is the Thelma property, located immediately north of the Tom claim. While production was small, the ore shipped from this deposit averaged 83.35 oz/ton silver, 0.01 oz/ton gold, 5.40% lead and 5.72% zinc. The vein on this property occurs on a north-striking limestone-volcanic contact and trends toward the Tom claim.

In the early 1960's a considerable amount of exploration was conducted on Swakum Mountain on the Last Chance property and its vicinity by Torwest Resources Ltd. They conducted geophysical surveys and diamond drilling, testing the known copper-tungsten skarn zone and a self-potential geophysical anomaly. Results were not encouraging. No recent work is known in the area.

In 1984 the writer conducted geological mapping and a magnetometer survey over the Tom claim. Results from this work found that the claim is underlain by Nicola volcanic and sedimentary rocks. No limestone-volcanic contact was seen. The magnetics show a weak north-northwest-trending anomaly.

GEOLOGY

General Geology

The Swakum Mountain area is located within a large area of Triassic-aged Nicola Group rocks which are bounded to the east and west by Jurassic and (?) Later Coast Intrusions.

The Nicola Group rocks are largely volcanic rocks, often referred to as greenstones. They vary from fine-grained to coarsely porphyritic types. They are predominantly green, but also occur in various shades of purple, red, brown, gray or black. The rocks are chiefly andesites, but include basalts and feldspar porphyries. Much breccia and tuff is associated with lavas. The latter are partly altered to chlorite, epidote and calcite. Minor amounts of sedimentary rocks are associated with the volcanic members. Limestone is the most abundant type with much lesser argillite and conglomerate. The limestone bands generally consist of a series of lenses rather than continuous beds.

The Coast Intrusions are mostly medium to coarse-grained granodiorites, or quartz diorites, but locally include more acidic or more basic types. None of the plutonic rocks are exposed in the Swakum Mountain area.

Local Geology

Nicola Group rocks are fairly well exposed on the Tom claim, and the eastern half of Dick claim, usually on the higher, rounded ridges. They are best described as greenstones, consisting of dark green, brown and black fine-grained to coarsely

porphyritic andesites, amygdaloidal flows and breccias. Most rocks are altered with hornblendes strongly chloritized and feldspars epidotized.

Limestone, which is exposed just to the north of the property at the old Thelma mine, was not seen in outcrop on the property. It could well be present in one of the many shallow draws on the claims, but is hidden by overburden.

Due to the reconnaissance nature of the geological survey, no attempt was made to outline various units within the Nicola Group rocks.

FIELD WORK

Magnetometer Survey

A grid was laid out for control of the magnetometer survey. This was run using hip chain and Silva compass. Lines were spaced at 200 meter separations and stations at 50 meter intervals. All lines were well marked with flagging tape. The east and west claim lines were used as baselines. All lines were tied to these baselines, and the interval between each line measured. As is normal in this type of survey, lines often deviated. For this reason, line spacings were adjusted to correct for lines which drifted off course.

A Scintrex MF-2 magnetometer was used on the survey. The instrument reads the total vertical magnetic field. It was adjusted so that 50,000 gammas were removed from the readings.

Readings were taken on each line at 50 m intervals. Base stations were set along the tie lines and check readings made on these after each circuit.

Geological Survey

Geology was mapped in a reconnaissance manner using the grid for control. Many areas had scattered, poorly exposed outcrops. Since these were all of similar

rock types, they were grouped into a generalized area of outcrop and plotted, as shown on Figure 3.

Geochemical Survey

Two lines of soil samples were run across the Dick and Tom claims to test the geochemical response on these claims. Lines 4N and 8N were chosen, since they incorporate the whole range of magnetic readings obtained in both the 1984 and 1985 surveys.

Samples were collected at each 50 m station on the above lines. Each sample was taken using a mattock from the "B" soil horizon, at depths ranging from 10-20 cm, placed in a kraft paper envelope upon which the sample location was marked, and stored for shipment to the laboratory.

Samples were analyzed by Acme Analytical Laboratories Ltd., 852 East Hastings Street, Vancouver, B.C.

A total of 82 samples were collected.

RESULTS

Magnetometer Survey

Check readings made to various base stations during the survey showed slight differences which when averaged showed little magnetic variation ($+50$ gammas). For this reason, the magnetic readings were not adjusted. Figure 4 is a plot of the magnetometer data.

The magnetic data shows a number of weak north-trending anomalies. These partially parallel the topographic ridges and gulleys. Readings range from a high of -40 gammas to a low of -1850 gammas.

None of the anomalies appear to be significant. They probably reflect the variable magnetite content in the Nicola rocks, as well as the depth of overburden. Many of the lower readings are coincident with swampy, overburden-filled depressions.

The aeromagnetic contour configuration is not repeated by the ground survey on the Tom and Dick claims.

Geological Survey

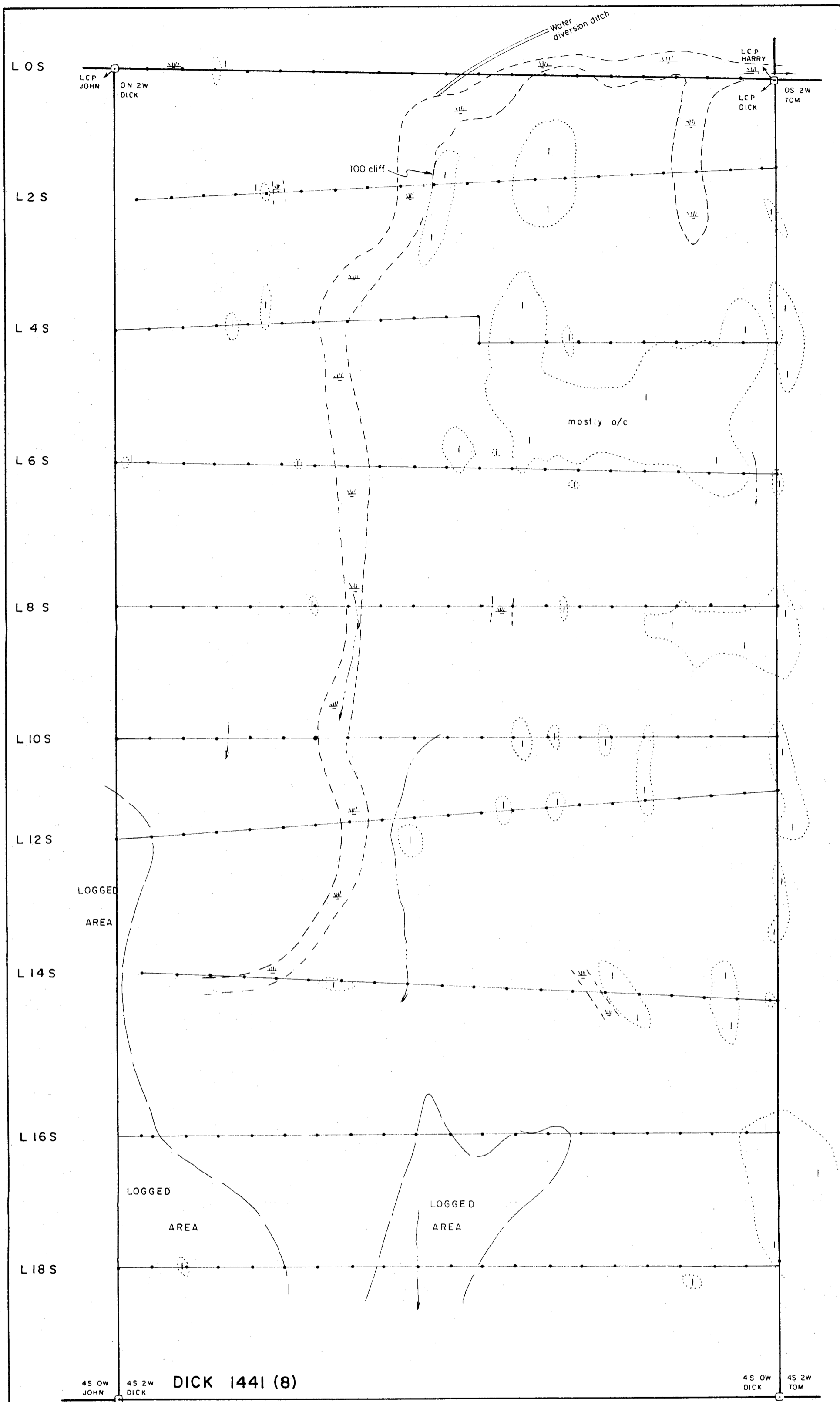
The geological mapping was conducted in a reconnaissance manner since the object was to locate the mineralized volcanic-limestone contact. For this reason, no attempt was made to outline various units within the Nicola Group rocks.

All rocks seen on the Dick claim are volcanics of the Nicola group. Medium to coarse-grained pyroclastics-tuffs and volcanic breccias-appear to be the most abundant rocks. A few outcrops of chloritized and epidotized andesite(?) were seen. In the field these were called greenstone. No volcanic-limestone contact was observed. However, many areas contain sparse outcrops and a contact could be present but buried.

Geochemical Survey

The soil samples were analyzed by the Inductively Coupled Argon Plasma (I.C.P.) method for copper, lead, zinc, silver and arsenic. Copper, lead and zinc values are shown on Figure 5; silver and arsenic values on Figure 6. Since only two sample lines were run, there is insufficient data available to permit contouring of the geochemical assays.

Frequency distribution graphs indicate that the following values should be considered anomalous. (Figures 7, 8, and 9.)



LEGEND

- Station
- Claim post
- Stream
- ≡ Swamp
- ⋯ Limit of outcrop and/or scattered outcrop
- ▭ I Nicola Group - volcanics



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H. M. JONES & ASSOCIATES INC. VANCOUVER, B.C.

**TOM CLAIM GROUP
GEOLOGY MAP**

MERRITT AREA
N.T.S. 921-7E NICOLA M.D., B.C.

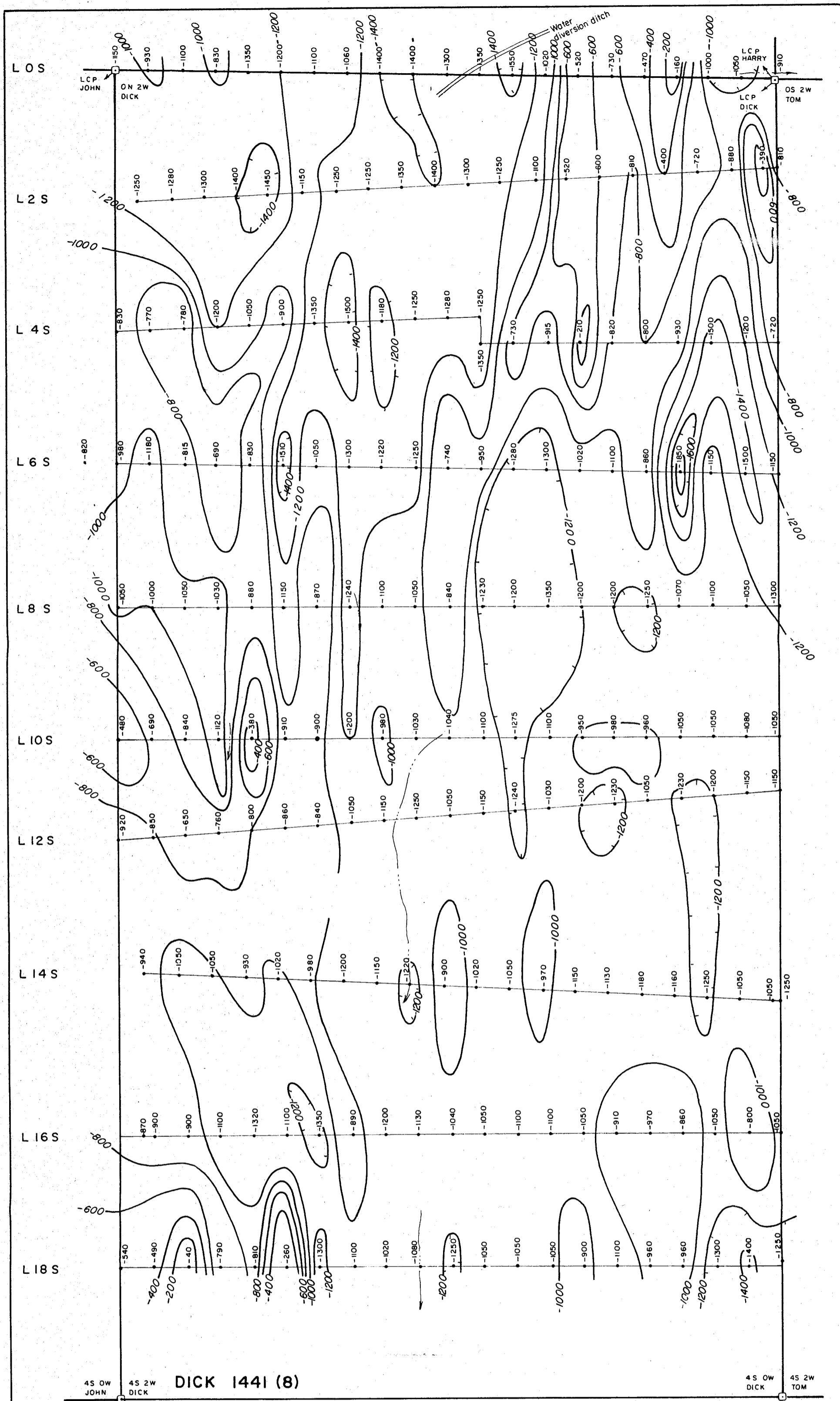


SCALE 1:5000
H. M. JONES

AUGUST 1985

FIG. 3

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LEGEND

- Station
- Claim post
- ~ Magnetic contour at 200 γ interval
- Stream



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H. M. JONES & ASSOCIATES INC. VANCOUVER, B.C.

**TOM CLAIM GROUP
MAGNETOMETER MAP**

MERRITT AREA
N.T.S. 921-7E NICOLA M.D., B.C.

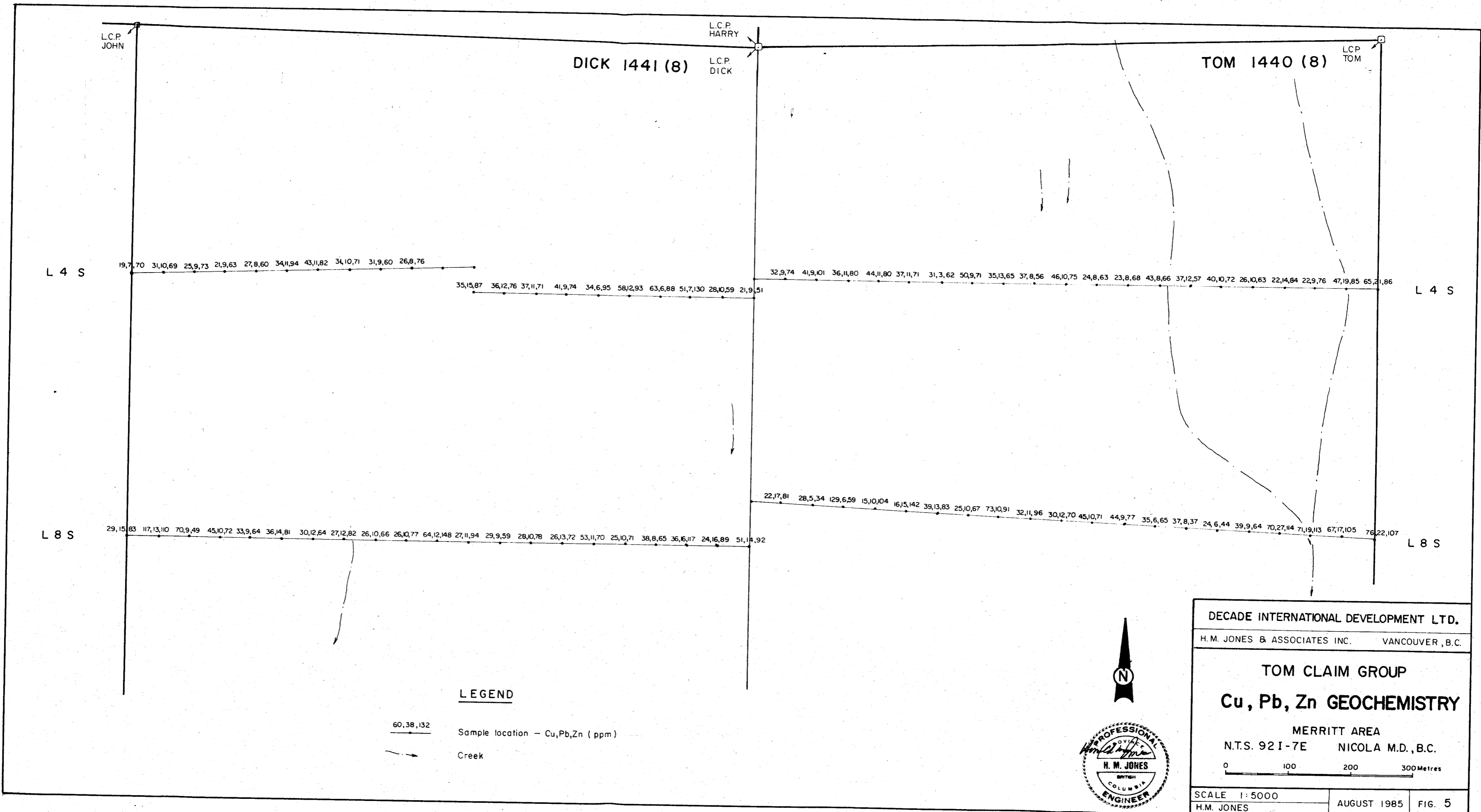
0 100 200 300 Metres

SCALE 1:5000
H. M. JONES

AUGUST 1985

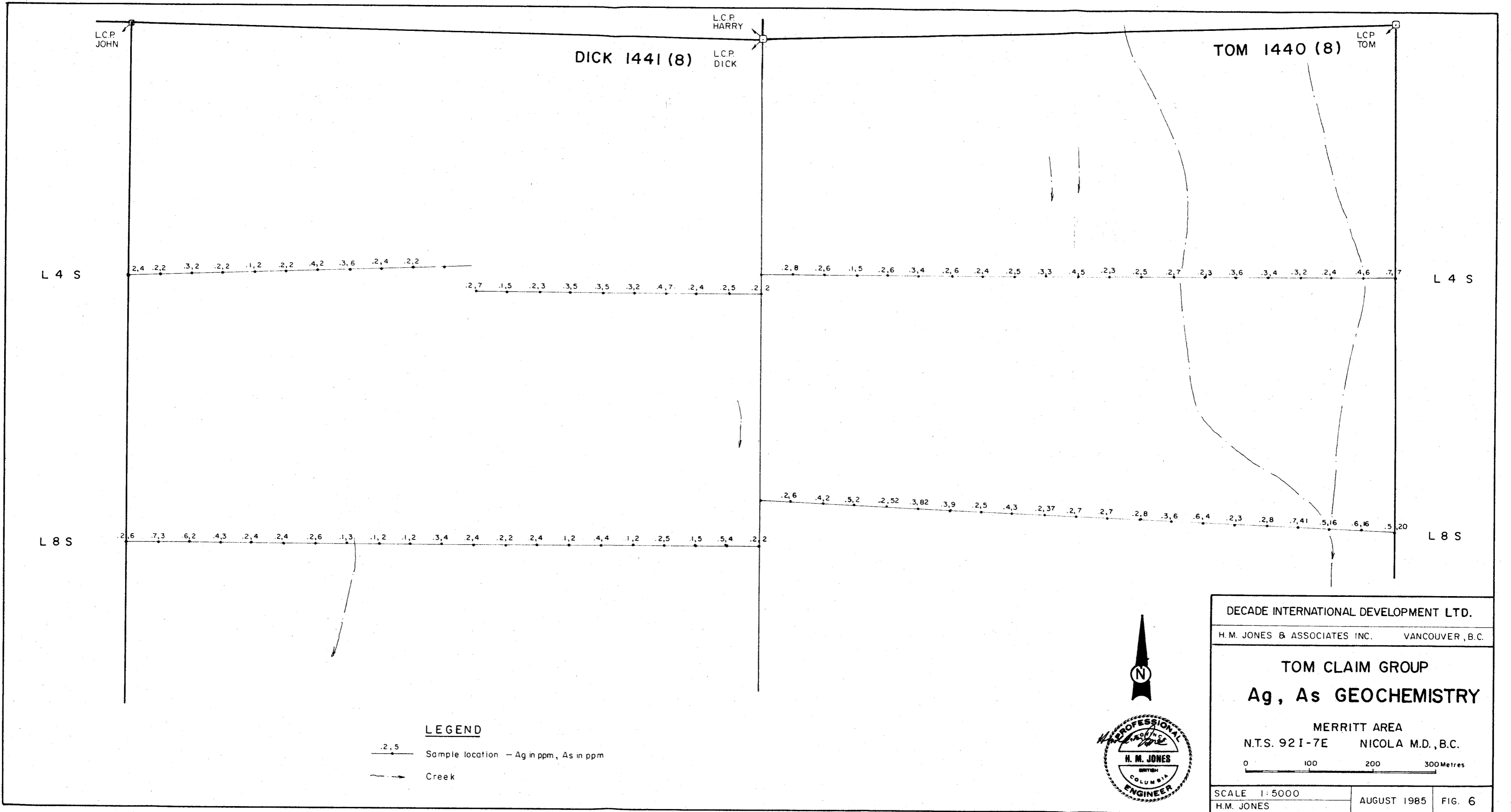
FIG. 4

14089



DECADE INTERNATIONAL DEVELOPMENT LTD.	
H. M. JONES & ASSOCIATES INC.	VANCOUVER, B.C.
TOM CLAIM GROUP	
Cu, Pb, Zn GEOCHEMISTRY	
MERRITT AREA	
N.T.S. 92 I-7E	NICOLA M.D., B.C.
SCALE 1:5000	AUGUST 1985 FIG. 5
H.M. JONES	

14089

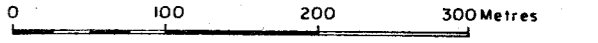


DECADE INTERNATIONAL DEVELOPMENT LTD.

H.M. JONES & ASSOCIATES INC. VANCOUVER, B.C.

TOM CLAIM GROUP
Ag, As GEOCHEMISTRY

MERRITT AREA
 N.T.S. 92 I-7E NICOLA M.D., B.C.



SCALE 1:5000
 H.M. JONES AUGUST 1985 FIG. 6



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Copper >100 ppm
Silver >0.5 ppm
Arsenic > 10 ppm
Zinc >160 ppm

There are no anomalous lead values. The highest anomalous values are those obtained from arsenic. Two values, 52 and 82 ppm, were obtained from Line 8S at 2+00E and 2+50E. This location is on the western edge of the Tom claim and is underlain by a poorly exposed orange-brown limey unit and volcanic breccia. Other anomalous arsenic values were obtained from and in the vicinity of the creek canyon on Line 8S between 8+50E and 10+00E. This location is also on the Tom claim.

This latter location appears to be in an area of thick glacial till, now eroded out as a deep gully along Shuta Creek. Several anomalous silver assays and elevated zinc values also occur in this area.

Insufficient soil sampling was conducted to define any anomalous zones. However, the sample results indicate that a few areas contain anomalous silver and arsenic values, and that a few scattered samples have elevated values in zinc and copper. Additional soil sampling appears to be warranted using silver and arsenic as pathfinders to a mineralized zone.

CONCLUSIONS

It is concluded that the geology and magnetometer surveys were not successful in locating a mineralized limestone-volcanic contact. It is concluded that anomalous geochemical assays in silver and arsenic may be significant, and that additional soil sampling is warranted.

RECOMMENDATION

It is recommended that the existing grid be soil-sampled and all anomalous areas located be sampled in detail. Upon completion of this work, a decision could

be made regarding any future work on the claims. The total cost of the above work is estimated to be \$ 5,000.

Respectfully submitted,

H. M. Jones
H. M. JONES
Harold M. JONES, P. Eng.
COLUMBIA
ENGINEER

REFERENCES

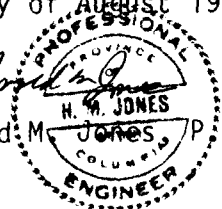
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- Cockfield, W.E. (1961) Geology and Mineral Deposits of Nicola Map area,
B.C., Geol. Surv. Canada Memoir 249.
- Geol. Surv. Canada Aeromagnetic Map 521G.
- Jones, H.M. (1984) A Geological-Geophysical Report on Tom, Dick and
Harry Claims, Swakum Mountain Area, Merritt Area,
filed for assessment work.
- Trenholme, L.S. (1984) A Report on the Tom Claim (No. 1440), private
report.

CERTIFICATE

I, Harold M. Jones, of the City of Vancouver, British Columbia, do hereby certify that:

1. I am a Consulting Geological Engineer with offices at 721 - 602 West Hastings Street, Vancouver, British Columbia.
2. I am a graduate of the University of British Columbia in geological Engineering, 1956.
3. I have practised my profession as a Geological Engineer for over 25 years.
4. I am a member of the Association of Professional Engineers of British Columbia, Registration No. 4681.
5. I conducted the geological-geophysical survey on the Dick claim and supervised the geochemical program on the Tom and Dick claims. All work was conducted between July 14-18, 1985. I also conducted a geological-geophysical program on the Tom claim in 1984.
6. I have no interest in, nor do I expect to receive any interest, direct or indirect, in the Tom, Dick, John and Harry claims, or in Decade International Development Ltd., or its securities.

DATED AT VANCOUVER, B.C. this 28th day of August 1985.


 Harold M. Jones P. Eng.

APPENDIX I

STATEMENT OF EXPENDITURES

**HAROLD M. JONES, P.ENG.
CONSULTING GEOLOGIST**

STATEMENT OF EXPENDITURES

WAGES:

Harold M. Jones, P.Eng., Consulting Geological Engineer July 14-18, 1985 5 days @ \$350/day	\$ 1,750.00	
Richard Ney - Field Assistant July 14-18, 1985 5 days @ \$100/day	500.00	
		\$ 2,250.00

FIELD EQUIPMENT:

Magnetometer Rental	100.00	
Hip Chain thread, flagging, sample bags	65.00	
		165.00

ASSAYS:

82 samples @ \$4.60/sample	377.20
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TRANSPORTATION:

Vehicle Rental plus fuel	217.29
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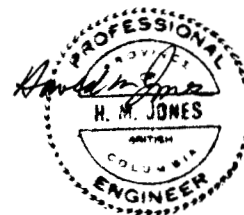
ROOM AND BOARD:

Two men @ \$40/man/day	400.00
------------------------	--------

REPORT AND MAP PREPARATION:

Report	600.00	
Drafting	140.00	
Secretarial	100.00	
		740.00

Total Expenditures:	\$ 4,149.49
	=====



APPENDIX II

ASSAY CERTIFICATE

**HAROLD M. JONES, P.ENG.
CONSULTING GEOLOGIST**

ACME ANALYTICAL LABORATORIES LTD.
 852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6
 PHONE 253-3158 DATA LINE 251-1011

DATE RECEIVED: JULY 19 1985

DATE REPORT MAILED: *July 24/85*

GEOCHEMICAL ICP ANALYSIS

.500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
 THIS LEACH IS PARTIAL FOR MN.FE.CA.P.CR.MG.BA.TI.B.AL.NA.K.W.SI.ZR.CE.SN.Y.NB AND TA. AU DETECTION LIMIT BY ICP IS 3 PPM.
 - SAMPLE TYPE: SOILS -20 MESH

ASSAYER: *T. Saundry* DEAN TOYE OR TOM SAUNDY. CERTIFIED B.C. ASSAYER

H. JONES FILE # 85-1461

PAGE 1

SAMPLE#	Cu PPM	Pb PPM	Zn PPM	Ag PPM	As PPM
4S 10+00W	19	7	70	.2	4
4S 9+50W	31	10	69	.2	2
4S 9+00W	25	9	73	.3	2
4S 8+50W	21	9	63	.2	2
4S 8+00W	27	8	60	.1	2
4S 7+50W	34	11	94	.2	2
4S 7+00W	43	11	82	.4	2
4S 6+50W	31	10	71	.3	6
4S 6+00W	31	9	60	.2	4
4S 5+50W	26	8	76	.2	2
4S 4+50W	35	15	87	.2	7
4S 4+00W	36	12	76	.1	5
4S 3+50W	37	11	71	.2	3
4S 3+00W	41	9	74	.3	5
4S 2+50W	34	6	95	.3	5
4S 2+00W	58	12	93	.3	2
4S 1+50W	63	6	88	.4	7
4S 1+00W	51	7	130	.2	4
4S 0+50W	28	10	59	.2	5
4S 0+00W	21	9	51	.2	2
4S 0+50E	32	9	74	.2	8
4S 1+00E	41	9	101	.2	6
4S 1+50E	36	11	80	.1	5
4S 2+00E	44	11	80	.2	6
4S 2+50E	37	11	71	.3	4
4S 3+00E	31	3	62	.2	6
4S 3+50E	50	9	71	.2	4
4S 4+00E	35	13	65	.2	5
4S 4+50E	37	8	56	.3	3
4S 5+00E	46	10	75	.4	5
4S 5+50E	24	8	63	.2	3
4S 6+00E	23	8	68	.2	5
4S 6+50E	43	8	66	.2	7
4S 7+00E	37	12	57	.2	3
4S 7+50E	40	10	72	.3	6
4S 8+00E	26	10	63	.3	4
STD C	60	38	132	7.0	41

SAMPLE#	Cu PPM	Pb PPM	Zn PPM	Ag PPM	As PPM
4S 8+50E	22	14	84	.3	2
4S 9+00E	22	9	76	.2	4
4S 9+50E	47	19	85	.4	6
4S 10+00E	65	21	86	.7	7
8S 10+00W	29	15	83	.2	6
8S 9+50W	117	13	110	.7	3
8S 9+00W	70	9	49	.6	2
8S 8+50W	45	10	72	.4	3
8S 8+00W	33	9	64	.2	4
8S 7+50W	36	14	81	.2	4
8S 7+00W	30	12	64	.2	6
8S 6+50W	27	12	82	.1	3
8S 6+00W	26	10	66	.1	2
8S 5+50W	26	10	77	.1	2
8S 5+00W	64	12	148	.3	4
8S 4+50W	27	11	94	.2	4
8S 4+00W	29	9	59	.2	2
8S 3+50W	28	10	78	.2	4
8S 3+00W	26	13	72	.1	2
8S 2+50W	53	11	70	.4	4
8S 2+00W	25	10	71	.1	2
8S 1+50W	38	8	65	.2	5
8S 1+00W	36	16	117	.1	5
8S 0+50W	24	16	89	.5	4
8S 0+00W	51	14	92	.2	2
8S 0+50E	22	17	81	.2	6
8S 1+00E	28	5	34	.4	2
8S 1+50E	129	6	59	.5	2
8S 2+00E	15	10	104	.2	52
8S 2+50E	16	15	142	.3	82
8S 3+00E	39	13	83	.3	9
8S 3+50E	25	10	67	.2	5
8S 4+00E	73	10	91	.4	3
8S 4+50E	32	11	96	.2	37
8S 5+00E	30	12	70	.2	7
8S 5+50E	45	10	71	.2	7
STD C	59	39	136	7.1	41

SAMPLE#	Cu PPM	Pb PPM	Zn PPM	Ag PPM	As PPM
8S 6+00E	44	9	77	.2	8
8S 6+50E	35	6	65	.3	6
8S 7+00E	37	8	37	.6	4
8S 7+50E	24	6	44	.2	3
8S 8+00E	39	9	64	.2	8
8S 8+50E	70	27	114	.7	41
8S 9+00E	71	19	113	.5	16
8S 9+50E	67	17	105	.6	16
8S 10+00E	76	22	107	.5	20
8S BL (EAST ARM)	34	10	58	.1	4
STD C	59	41	135	7.0	38

FIG. 7

FREQUENCY DISTRIBUTION - Copper

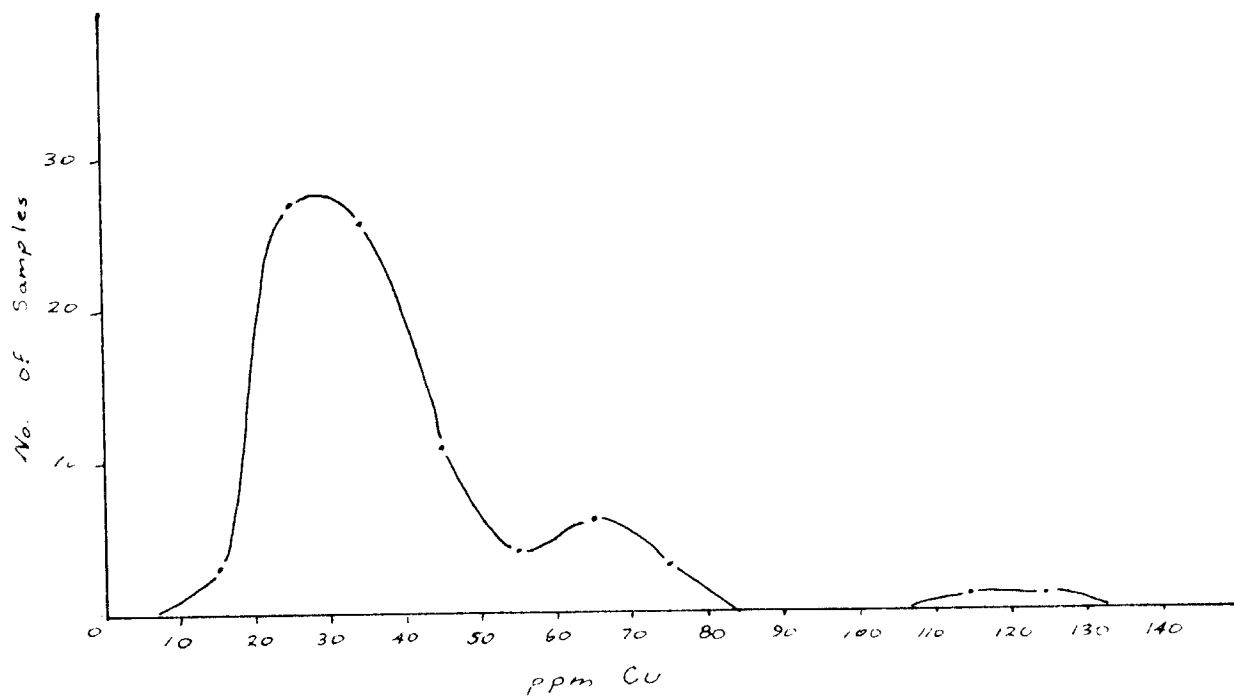


FIG. 8

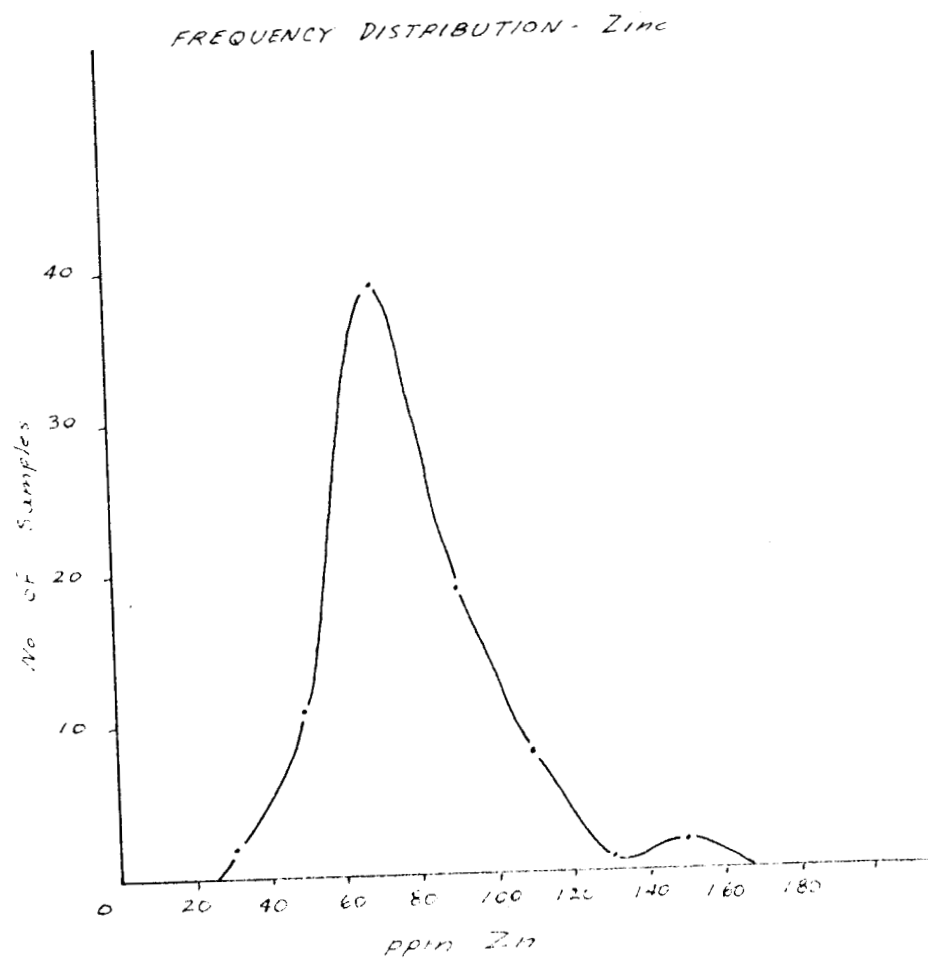
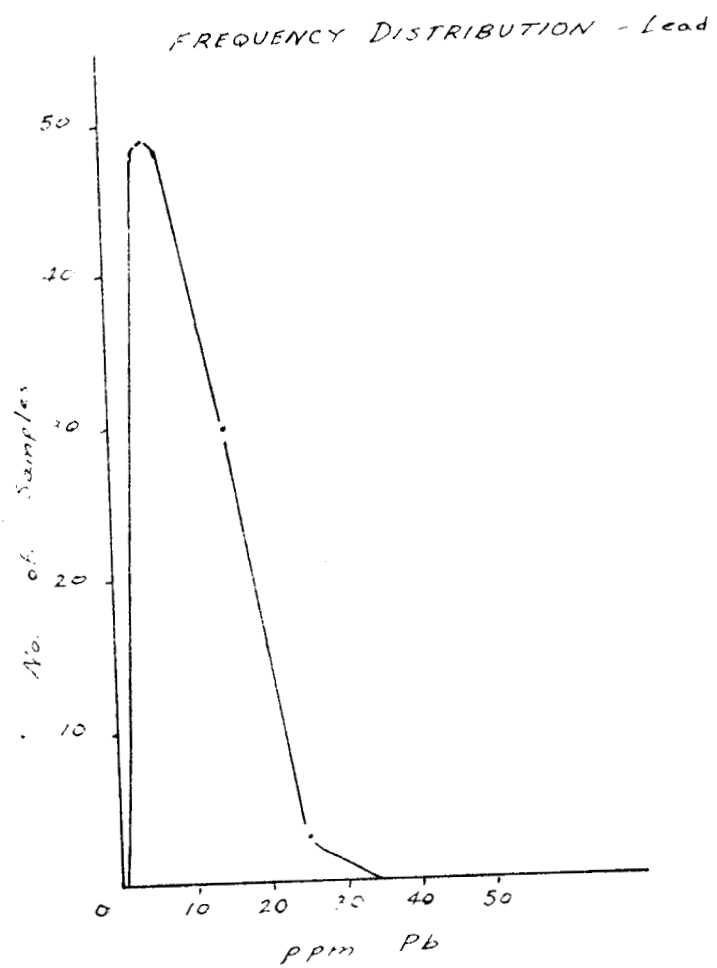
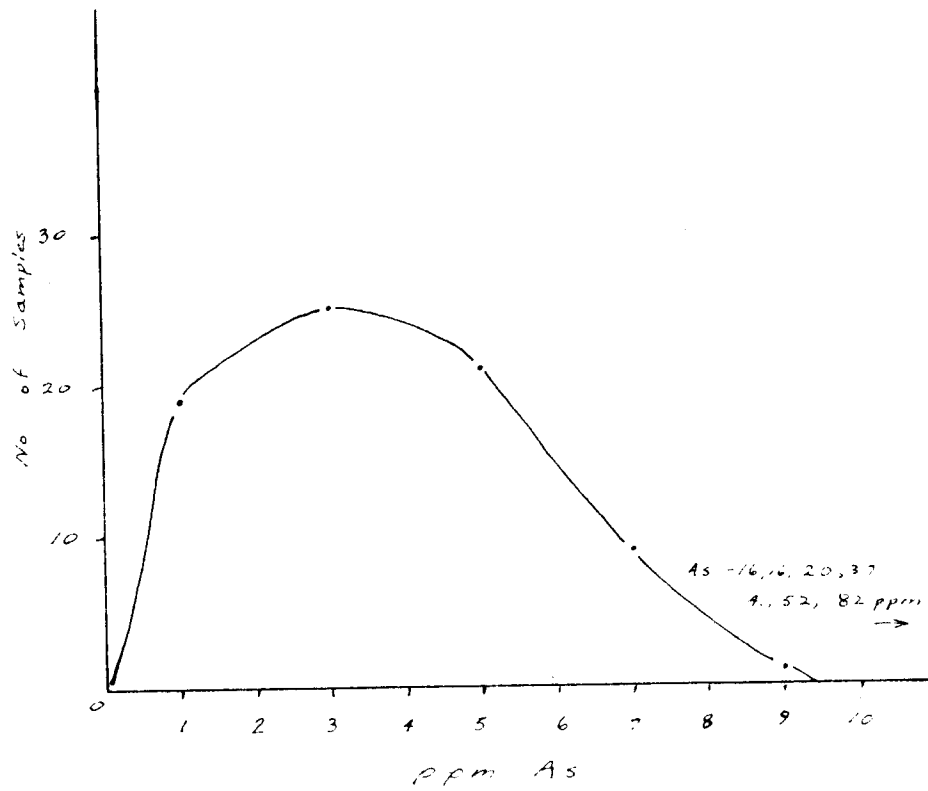


FIG. 9

FREQUENCY DISTRIBUTION - Arsenic



FREQUENCY DISTRIBUTION - Silver

