



Introduction:

The following report describes the <u>biogeochemical</u> survey completed during the latter part of <u>July, 1972 on Canadian Johns-</u> <u>Manville Co</u>. Limited claims located in <u>Bompas Township</u>, Larder Lake Mining Division, Province of Ontario.

LARDER LAKE MINING DIVISION PROVINCE OF ONTARIO.

REPORT ON BIOGE ON THE LYDON GE

BOMPAS 1.

This survey comprised <u>sampling of second growth stems from</u> <u>birch, spruce, balsam and alder trees</u>. Analyses of all samples was conducted by <u>Bondar-Clegg & Company Limited of Ottawa</u>, Ontario.

<u>Samples were collected</u> by G. Edwards and F. Cook, fieldman with this Company, during <u>December of 1971</u> and by P. Brown and J. Goodger, geologists with the Company, during <u>July, 1972</u>.

The Lydon Group of claims are being explored under Provincial Government Financial Assistance Agreement KL-21 in the amount of \$9,900.00.

At the time of this report mapping of outcrops had been completed on the group and the results of this work are discussed under the heading "Geology of the Claims".

Supervision and interpretation of the survey were the joint responsibility of P. Brown and F. J. Evelegh, Geologist and Regional Geologist respectively, with Canadian Johns-Manville Company Limited. All personnel employed on the project reside in Matheson, Ontario. <u>Property</u>:

The claims surveyed are situated in <u>Bompas Township</u>, Larder Lake Mining Division, Province of Ontario. This group was <u>staked in</u> <u>1971 and recorded on February 178</u>. All claims were <u>transferred to</u> Canadian Johns-Manville Company Limited on October 88, 1971. Due to difficulty of access and adverse weather conditions it was necessary to apply for an "Extension of Time" to complete the first year's assessment requirements. The "Extension" was granted on <u>February 45</u> and <u>extended the time until August 31st.</u> 1972.

These <u>twelve olsims</u> are numbered <u>308410 -11. -12. -13. -141</u> <u>281931; 291147; 298287 -88; and 298301 -02, -03</u> and comprise approximately <u>480 acres</u>.

Location and Accessibility:

The Canadian Johns-Manville Group is located in the southwest section of <u>Bompas Township</u>. These claims straddle the Huronian sediment - Archean basement contact.

Access to the property is difficult due to lack of bush roads and small size of the lakes in the immediate area. The Englehart Management Road in Burt Township branches off Highway No. 66 approximately eleven miles southwest of Kenogami. This road is suitable for car or truck and was travelled to the morth for a distance of six miles. A trapper's trail, suitable for skidoo travel under winter conditions and foot travel the remainder of the year, leads to the claims located four miles to the morth.

Lumbering is currently being resumed in the area and this should facilitate access to the group.

Topography:

Relief is relatively gentle with the exception of the <u>Gowganda outcrop</u> area along the east side of the claims. The bush is fairly open, timbered predominantly with <u>poplar and spruc</u>e.

Narrow, swampy areas, beaver ponds and one small lake occur between low mortherly trending ridges. With the exception of the

central part, outcrops are sparse on the group.

Drainage is to the south where creeks empty into the Englehart River.

Previous Work:

An old base line, grid system, trenches and pits were noted around a large quartz vein on claim 308410. In this respect a study of the assessment work records on file at the Ministry of Natural Resources Resident Geologist's Office in Kirkland Lake disclosed the following data: -

A report by J. W. McBean, Resident Geologist, Kirkland Lake dated October 120, 1945 and entitled "The Biederman Molybdenite Property". This report stated that the showing consisted of two quartz veins, striking N50°E, dipping 35° to the morth and ranging in width from 8 to 15 feet. Vein material is pegnatitic with numerous large crystals of pink orthoclase. Mineralization is associated with low angle fractures paralleling the hanging wall and restricted to within 4 feet of same. Seven core holes were drilled on the vein but no assays were reported. However, a 50 pound bulk sample collected from the pits assayed less than 1.0% MoS₂ and contained no Au.

A report by Kirkland Minerals Corporation Ltd. dated January 22md, <u>1957</u> and entitled "The Biederman Molybdemite Property". This report recorded the drilling of two x-ray core holes as well as pitting and trenching. No assay figures were reported. This Township was mapped for the Ontario Department of Mines by James A. Grant and the results have been published in Geological Report No. 30 entitled "Bompas and Granfell Townships" and dated 1964. Map No. 2060 on a scale of one inch equals one-half mile accompanies this Report.

P. Brown, geologist with Canadian Johns-Manville Co. Limited, assisted by F. Cook examined the Molybdenite showing on the claims during <u>November of 1971.</u> A brief report and sketch map were prepared and these were filed with the Ministry of Natural Resources as part of the 1971 - 72 program for the Government Financial Assistance Agreement. Note that pyrite with very minor amounts of molybdenite and chalcopyrite were noted in pits and trenches at this time. Geological mapping of the Lydom Group was conducted by J. H. Morris, geologist with this Company, during the latter part of <u>July and</u> early August. 1972. A copy of his report has been included in the geological section.

Geology of the Claims:

The following excerpt has been taken directly from the Geological Report on the Lydon Group of claims, compiled by J. H. Morris and dated September 130, 1972; -

<u>"Outcrop</u> is very sparse and mainly <u>restricted to the easternmost claims. At least six lithologies are present being from oldest to youngest: - amphibolite gneiss (21, claim 298303), gramite 5a, syemite 5b and microgramite, diabase 6 and Gowganda basal conglomerate. The amphibolite gneiss is assumed to be the oldest rock as it appears to be remmant, altered Keewatim volcanic material (a similar imlier is mentioned by Grant to lie one mile to the east of Rib Lake, just to the morth of the group). Its mafic content is predominantly hormblende, with a north-south limeation. The gramite is medium to coarse grained, with a variably developed mafic mimeral limeation (southeasterly trend). The symite is coarse grained, with pink orthoclase crystals; the mafic content is variable, but usually a</u>

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mixture of hornblende and biotite. On claim 298287 an outcrop of symite contains angular fragments of symite. The Gowganda conglomerate (claim 298301) contains rounded gramitic boulders up to eight inches in diameter; this outcrop occurs on a hill, presumably all Gowganda with an unconformity at the base with the underlying gramite.

In the area of the quartz vein on claim 308410, an additional rock type is present, a microgramite dyke. This trends N60°E and has a sharp intrusive contact with the hormblende symmite. Though fine grained, it contains a fair number of anhedral hormblende crystals up to 1/3" long. What appears to be a second generation of small euhedral hormblende laths, create a very moticeable lineation (parallel to a foliation, in turn parallel to the trend of the dyke) cross cutting the earlier more randomly oriented hormblende crystals. Several symmite xemoliths were noticed within the microgramite. In a few instances, pyrite and a few specks of molybdemite occur within the large hormblende crystals. Apart from the quartz vein, all other outcrop in the vicimity is hormblende (with or without biotite) symmite; it contains a mimeral lineation trending N24°W. A mimor amount of pyrite and spheme was noted.

The quartz veim, approximately twenty feet wide on surface, is massive, white coloured, with fairly abundant pink orthoclase patches. A poorly developed chloritic foliation is present. Molybdenite and pyrite are present (two to three percent) associated with either the chloritic seams or the orthoclase patches. A trace of chalcopyrite is also present."

Biogeochemical Survey:

The biogeochemical survey on the Lydon Group of claims was

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carried out in two stages as described in the following paragraphs; Stage I was conducted by G. Edwards, fieldman with this Company, assisted by F. Cook, Field work was carried out on December 15%, 20%, 21st and 22md, 1971.

Stage II was conducted by P. Brown and J. Goodger, geologists with Canadian Johns-Manville Co. Limited. This work was carried out during the period July 183 - 22md, inclusive, 1972.

Note that under both winter and summer conditions field work was extremely slow due to the length of the hike into the property.

In biogeochem sampling second year growth stems have been determined as the best medium giving the highest concentrations most rapidly and economically. Forty-four alders, fifty spruce, one balsam and twenty-three birch trees were sampled during the course of the survey.

For rapid recommaissance 400 foot centres have been used. These were located on and between claim lines using compass and pacing methods.

The twigs are taken using pruning shears from branches, distributed as evenly as possible about the tree and <u>placed in a</u> <u>numbered sample bag</u>. A piece of <u>flagging tape</u> with the <u>sample</u>, <u>number is tied to the tree for future reference and data is recorded pertaining to the sample. Field sheet records include date, weather, name of sampler, project number, location, sample number, topography, drainage slope, tree type and size of tree.</u>

To prepare the biogeochem samples the <u>plant material is put</u> through a Wiley Mill and reduced to -1 mm. A 20 cc. crucible is filled with material and total weight recorded to three decimals. Drying in a vented oven for two hours at 105°C followed by a

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second weighing is the next step. Another drying for one hour is carried out and if the resulting weight compares with the second weighing them the sample has reached constant weight and is considered dry. This dry weight is also recorded.

Charring is the most important stage and is critical. Resins are burnt off but free carbon must not be produced. This is done in a muffle furnace with the door open for two hours at about 200°C. These conditions are variable depending on the material. The furnace door is now closed and the temperature increased to not more than 450°C. When a clean white or slightly grey ash with no black material remains then the sample is taken out, placed in a desiccator and when cool brushed onto a balance pan. Its weight is recorded to three decimals. The ash is now digested for onehalf hour by 1.5 cc. of concentrated mitric acid in a test tube of 90°C, controlled by a water bath. Then 1/2 cc. of concentrated hydrochloric acid is added and digestion continued for one and one-half hours. The tube is then removed and the sample diluted to 10 cc's with de-ionized water. The contents are shaken to mix and allowed to settle. Metal concentrations are read by Atomic. Absorbtion and calculated to ppm based on the original ash weight.

Overall accuracy for Cu, Zz, Pb, Ag and Mo is a maximum of 20% relative standard deviation which is acceptable.

Extraction of essential information is carried out statistically and is best done by graphical representation of the frequency distribution of the data; them the average value (background) degree of variation and the existence of one or more populations is precisely determined.

The distribution pattern which best fits geochemical and

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biogeochemical data is the lognormal one. Graphically this gives a bell-shaped curve which when smoothed gives the frequency curve. Them plotting the cumulated frequencies as ordinates the cumulative frequency curve is derived. This is the integral of the frequency curve. By replacing the arithmetic ordinate scale with a probability scale the cumulative frequency curve is represented by one or more straight lines.

Fifteen to twenty-five classes are recommended and as a rule the width of a class, expressed logarithmically, must be kept equal to or smaller than the standard deviation.

One hundred and eighteen samples were collected on the Group giving an average density of 9.8 per claim. Samples from Stage I were analyzed geochemically for Cu, Ph, Zm, Mo and Ag. Samples from Stage II were analyzed for Cu, Mo, Pb and Zm. All laboratory testing was conducted by Bondar-Clegg & Company Limited of Ottawa, Ontario. Copies of the results accompany this report.

Oumulative frequency distribution diagrams have been compiled for Cu, Mo, Pb and Zn in birch, alder and spruce trees, combining results from Stages I and II. The single balsam sample has not been used. A diagram has been plotted for the forty-one spruce samples collected in Stage I and analyzed for Ag.

Contoured Biogeochemical Survey Plans all on a scale of one inch equals 400 feet are attached and show possibly, probably and definitely anomalous areas, where applicable for Cu, Mo, Pb, Zm and Ag.

Etatistical analyses of biogeochemical results using the cumulative frequency distribution diagrams are described in the following paragraphs.

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1. Copper:

a) in birch. <u>23 samples</u> were taken and when plotted the population is seen to be lognormal, i.e. lying along a straight line. Background (b) is 267 ppm, standard deviation (b + s) is 345 ppm and the threshold (t) above which any values are anomalous is 445 ppm.

b) in alder. The <u>44 samples have lognormal distribution</u> with no anomalous values. (b) is 380 ppm, (b + s) 490 ppm and (t) is 640 ppm.

c) in spruce. Fifty samples were taken showing the same lognormal distribution with (b) 246 ppm, (b + s) 355 ppm and (t) 510 ppm.

2. Molybdenum:

a) in <u>birch</u>. A deviation from the normal lognormal population occurs at 19 ppm shown by the positive change in slope above this .
value. The extension of the main slope is used to determine (t);
(b) is 15 ppm, (b + s) 19 ppm and (t) 24 ppm.

b) in alder. An excess of high values is shown by the positive slope change from 80 ppm and above. (b) is 27 ppm,
(b + s) 56 ppm and (t) 114 ppm.

c) in <u>spruce</u>. Lognormal distribution with no anomalous values is shown with (b) at 17.6 ppm, (b + s) at 26 ppm and (t) at 37 ppm.

3. Lead:

a) in <u>birch</u>. Deviation from the norm begins at 900 ppm indicating potentially anomalous conditions. (b) is 560 ppm,
(b + s) 840 ppm and (t) 1280 ppm.

b) in alder. The positive slope change from 660 ppm marks the deviation from the norm with an excess of high values for this population. (b) is 480 ppm, (b + s) 660 ppm and (t) 900 ppm. Alder does show anomalous lead values.

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c) in <u>spruce</u>. A marked excess of high values is shown here with 45% of the population giving the second slope. Sixteen percent of the samples lie in the anomalous category. The deviation of almost half of the population may be due to location of the samples. Spruce are widespread and cover both high ground and swamp. In the swamps organic concentration takes place and in effect creates a different population. Therefore, care must be taken in the map interpretation bearing this in mind.

4. Zinc:

a) in birch. The sime shows lognormal distribution with no anomalous values. (b) is 13,000 ppm, (b + s) 16,900 ppm and (t) 21,500 ppm.

b) in alder. The first slope of the line representing 20% of the population is caused by too many low values. This is common in zinc distribution. The main slope gives (b) as 2550 ppm, (b + s) 3600 ppm and (t) as 5050 ppm. No anomalous values are present.

c) in <u>spruce</u>. The distribution is lognormal with no anomalous values. (b) is 2330 ppm, (b + s) 3200 ppm and (t) is 4400pppm. 5. <u>Silver</u>:

a) in spruce. Forty-one samples were taken. The cumulative frequency distribution is erratic - 50% of the values fall on one slope and 50% on another. This possibly represents different lithology, but from the contour map this is hardly likely. The trend of highs runs NW-SE and may represent a later Nippissing-type dyke, but since no outcrops occur this would be difficult to prove. (b) is 2 ppm, (b + s) 5.8 ppm and anomalous (t) above 10.6 ppm. <u>Conclusions</u>:

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As indicated by the results of the biogeochemical survey few anomalous values are present for any of the elements. Those above threshold value are not excessively high and constitute mimimal percentages of any given population.

Recommendations:

No further exploration work appears warranted for this group of claims at this time.

HAR. Brown.

Submitted by:

P. A. R. Brown, Geologist

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and: F. J. Evelegh Regional Geologist

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October 131, 1972.

STAGE I

1.

CANADIAN JOHNS-MANVILLE CO. LIMITED

BIOGEOCHEMICAL SERVEY DATA

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Collector	G. Edwards an F. Cook	d Project	;: #160	Weather: Sunny & Mild
Date: De	c 15 , 1971	Area: Bo	mpas Twp	Physiography: Wooded
Sample No.	Location	Drainage Slope		Remarks
			All sample	es are spruce
<u>Y-9039</u>	Post #2, claim 308411 - 5+00E	of		eaver pond - spruce swamp
Y-9040	8+00E	Flat		
9041	12+00E	1		
9042	Post #2; claim 291147 - 4+008	of 1		
9043	4+00W			
9044	8+00W			
¥-9045	12+00₩			
9046	16+00W			
9047	20+00W			
9048	24+00W			
9049	28+00W			
Y-905 0	32+00W		Post #1 -	claim 308412
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CANADIAN JOHNS-MANVILLE CO. LIMITED

BIGEOCHEMICAL SOIL SURVEY DATA

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Collector	G. Edwards & F. Cook	Project	: #160 Weather: cloudy - cool
Date: Dec	20,21,22, 1971	Area: B	ompas Twp Physiography:
Sample No.	Location	Drainage Slope	· Remarks
•••			All samples are spruce
Y-9 051	On trail - 400 S of Y-9047	<i>6</i>	Base of outcrop - high ground between outcrops - jackping & spruce cover .
9052	400'E of 9051	-Laurence	High ridge - scattered outcrops
9053	800 'E "	N	At hase of ridge - low flat land
9054	1200'E "	<u>~</u>	Low flat alder swamp - near creek
Y-9055	1600'E "	~	Low flat spruce swamp near creek heavy spruce cover
9056	2000'E "		Low flat alder swamp spruce cover
9057	2400'E "	1	Very hilly high ground - open birch and jackpine cover
9058	Post #2 Claim 281931	pre	Hilly high ground - scattered boulders open mixed cover
9059	400'W of Post	<u> </u>	High flat ridge jackpine cover
Y-9060	800 W "		Low flat ground jackping cover
9061	1200'W "		Low flat alder swamp - flooded by beaver dam - spruce
9062	Post #2; claim 308410; 1600'W		High flat land - mixed cover
9063	400 'W		High uneven ground mixed cover
9064	800'W	+	High flat ground near outcrop
Y-9065	1200'W	Ľ	Top of outcrop - high uneven ground open jackping cover
9066	1600 'W		Low spruce swamp - very flat beavy appuce cover
9067	2000'W	· L	Low land - spruce cover
9068	2400'W	\checkmark	Low flat swamp - spruce cover
9069	2800'W	$\overline{\mathbf{N}}$	Low flat swamp - partially flooded by beaver dam
<u> x-9070</u>	3200 'W	k	Low land at edge of small creek
¥-9071	3600'W	k	Low land - near creek - apruce &
			jackpine cover

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CANADIAN JOHNS-MANVILLE CO. LIMITED

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BIGEOCHEMICAL SOLA SURVEY DATA

Collector		Project	#160 Weather: Sunny & milit
Date: De	ec 20, 21,22, 19	71 Area: B	ompas Twp Physiography: Wooded
Sample No.	Location	Drainage Slope	Remarks
			All samples are apruce except 3 which
•• • • • • • • • •		n an - Inai dia dia dia dia dia dia 40000 mila dia 4000000000000000000000000000000000000	are white birch
Y-9073	Post #2 Claim 308411		Spruce sample - swampy area - mixed cover
9074	4+00W of	<u> </u>	Spruce - 4"
X-9075	8+00W	¥	White birch 4" - hill
9076	12+00W	\rightarrow	White birch 4"
9077	16+00W	R	White birch 6" - Post #2, claim 308413
9078	20+00W	->	Spruce 6"
9079	24+00W	A	Spruce 4"
¥-9080	28+00W		Spruce 4" - slight hill
9081	800's of 9080	• ↓	to SNW Spruce 6" - hill slope - tag alder swamp
9082	400'E "	44-	Spruce 6"
<u> </u>	800'E "	*	Spruce 6"
N-100 AD-100 - CONSTANT & LONG - CONSTANT	-		
1-0-0-0-11-11-1-1-1-1-1-1-1-1-1-1-1-1-1		0	•
	144 Da	mples	
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Group: L	ydon Group		Collect		dger Project No. 163	NO.
. Jownship:	Bompas		Date: Ju	ly 18th - 2	2nd incl, 1972	
Bernle #	ocation	TRee Type	Diam.	Sample Height	Nature of A Terrein	Drais, Direc
J.J5921	+00N of Post	R	X 11	251	mainly spruce & jackpine	
693	4+00E of 692		11	61	1+00W of lake -old trail	
694	4+00N of 693		1/2"		spruce & jackpine	Flat
U-695	4+00W of 694	A	2"	16'	centre of flooded area	
n an a tha an	ann ingha Tin Bul Inn Hafferra Madeulau		na managhta (Fill a sua shi na sa shi na		just south of beaverdam	S
696	4400W of 695	A	1"	10'	near gneissic outcrop	
	and shat she to the state of th			an a	1+50'S of beaver pond	N
697	4+00¥ of 696	A	1/2"	41	the second s	NE
698	4+00W of 697	A	1"	6'	flat jackpine area	SW.
699	4+00W of 698	A	3/4"	51	spruce swamp	
T-700	4+00V of 699	A	1/2"	41	on small knoll	N
			ang ang ang grange ang			
W-1166	4+00W of 699	s	2"	51	in open spruce swamp	
1167	4+00W of 700	а	1"	31	as above -100'E of N-S	•
1168	4+00N: 0+60E		Y			
	of 1167	A	2"	12'	edge of swamp	
1169	4+00E of 1168	A	11/2"	81	edge of spruce swamp	
W-1170	4+00E of 1169	A	1"	41	in swamp gulley between small bump	s
1171	3+50E of 1170	1	2"	10'	edge of swamp	
1172	4+00E of 1171		1/2"	31	N-S claim line	W
	4+30E of 1178	1	2"	20'	E-W claim line	N
1174	4+00E of 1173	B	<u>6</u> "	8'	100'N of beaver pond	S
V-1175	4+00E of 1174	I	1" .	10'	20'E of N-S claim line	8
					1+00N of post	
1176	4+00E of 1175	A	3/4"	51	sub-trail - 2+00E of Lake	SE .
W-1466	4+00N of 1176	A	2"	6'	on trail by small creek	E
1467	5+60W of 1460	1	2"	10'	by small swamp	-
	5+00W of outo	1	- syenite	+ angular	fragments	
	55 paces west	of	1467 amphi	bole gneis	B - N-S lineation	
	60 paces west					
		 				
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BIOGEOCHEMICAL SURVEY SHEET

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Township:	Bompas	14 10 m Mar	Date:	• • • • • • • • • • • • • • • • • • •	22nd incl, 1972	
Secole #	Location	TRee Type	<u>viam.</u>	Sample Height	Nature of Terrain	Drais, Direc
W-1468	3+80W of 1467	A	2"	10'	on creek flowing south	S
	4+00W of 1468	A	1/2"	31		SE
W-1470	4+00W of 1469		2"	12'	south of swamp; 21 paces	vest
			د. د چاهان در داند او میکوی کار به کوی میکور در مانو در مانو در میکور به میکوی میکور در مانو میکور میکور در ما		of 1470 is N-S claim line	E
1471	4+20W of 1470	A	11/2"	6'	south side of swamp	N
1472	4+30W of 1471	Sp	3"	8'	spruce-jackpine ridge E-W	S
1473	4+00W of 1472	A	2 ⁿ	51	дшежа	
1474	4+00W of 1473	A	1/2"	41	swamp - claim line in	Sector Sector Sector
W-1475	4+00N of 1473	Sp	2"	8'	outcrop - granitic gneis	6
					in swamp	
1476	4+50E of 1475	A	11/2*		swamp	E
1477	3+80E of 1476	1 1	5 .	12'	11	
1478	4+10E of 1477		1"	6'	drainage gently east	
1479	4+00E of 1478	1	1"	71		1.
1480	3+80E of 1479		3/4"	4 '	swamp - north edge of	
1481	5+60E of 1480	T	6"	51	400 to 600'W is outcrop -	
			nanya manggaliki gaya san ing ini aka m		granite	S
ang ang pang ang pang pang pang pang pan	1+50E of W-14	181 -	Post #1.	claim 2983	-	
1482	3+005. 2+00E	1		1		
and a second in the second		A	21/211	12'	dry - flat - 5'E of gran	ite o.
1483	4+00E of 1482	2	2"	.6'	side of small swamp	Е
and and the second s		· ·			466; 78 paces west N-S cl.	line
14.84	4+20E of 148		2"	12'	50'E is lake - approximat	
			••••••••••••••••••••••••••••••••••••••		N end of same.	
V-1485	Post 1. cl 20	8288	ang nahadi si ng panangkangka ng panan dari dan sagat ng dan			
		Sp	2"	61	flat spruce area	N
1486	4+005 of 148	-	3"	12'	west side of creek	E
1487	4+005 of 148	(-	2"	41	flat	1
1488	5+60W of 148'		2"	8'	N-S creek - dry swamp	8
1489	4+00N of 148		1"	6'	as above	8
1490	4+00N of 1489	1	2"	12'	on N-S claim line - creek	
1491	3+60W of 1490	1	3/4"	<u></u> <u></u> <u></u>	at post #1, claim 298302:	
		4	and the second		#4 post of 298288 and	
	nan an an ann ann ann ann an ann ann an	<u> </u>			#2 post of 298301	
and the second s	**************************************		an a		an fallan an an an an ann an an tar tar tar an an an ann ann ann ann ann ann ann	1

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	· · ·	BIO	GEOCHEMICA	L SURVEY 3	HERT	
	lon Group		Collect	0. UOC	odger ITOJect No. 102	
Township:	Bompas		Date:	uly 180 -	22md, 1972	
Semple # 4		Tree Type	<u>vian.</u>	Sample Height	Nature of <u>Terrain</u>	Drain
W-1492	4+008 of 149	A	- 1"	61		8
1493	4+008 of 149	2, B	2"		Outcrop_2+00W	E
				an dar ann mar an		
<u>Y-9271</u>	150 W of trail	.	2"	15'	beside outcrop; 150'E of	N
9272	400'W of 9271	B ,	2"	15!	Post #1, cl. 298303	
9273	00'V of 9272	_Sp	<u>4</u> "	121		W
	400 W of 9273		1"			S
Y-9275	400'W of 9274	A	2"	51	40'N of claim line; 75'E	
			and the state of the	- Marine a ganartite - 1 mainte againe - agai gar a 1000 i 1000 mili 1000 mili 1000	of Post #1, cl 308414	S
9276	OO'W of Post					
	1, 01 308414	A	2"	5'		N
	400 W of 9276	B	6"	30'		N
a all the second	400'W of 9277.	A	2"	61		<u>W</u>
	400 V of 9278		1"	41		- W
1. TO 10. TO 10. TO 10. TO 10.	Post 1,cl 3084	14	- 11			
	400'N of Post	3. 	· · · · · · · · · · · · · · · · · · ·	and a state of the		
and the state of the second state of the secon	#1. cl 308414		4"	201		E
9281	400'N Of 9280	A	1/2"	5'	150'N to Post #3; cl	
					298301	E
9282	400'N of 928	1.	5"	15'		S
9283	400'N of 928		3"	18'		SW
9284	150'N of 928					
	at claim pos	1	5",	5'		SE
7-9285	400'E of Pos	T				
18 A. 19	71, cl 298301	1	4 n	20'		8
9286	400'S of 928	1	2"	5'		SW
9287	400 'S of 928	12	4"	20'		8
9288	400's of 928	2_B_	31	14'		N
9289	400 'S of 928	1	3"	15!	Beside outcrop	1
	400'E of 928	<u>в</u>	5"	22'	outcrop between 9289 &	
	۲ 	+			9290	
9291	400 'N of 929	¢ B	4"	15!	outcrop between 9290 &	1-1-2-2
					9291	. . .
	I	1	1	¥		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

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	Lydon Group	BIOC	Oollect	AL SURVEY S tor: P. Bro J. Goo	wn and	Projec	st No. 163	
Township:	Bompas		Date:	July 181 -	22nd,	1972		
Emple #		Tree Type	Dian.	Sample	Ne	ture of errsin		Drein. Dipec
¥-9292	800'N of 9290	В	3#	12'			and and the first of the second s	SE
9297	1200'N of 929	1 1	4"	18'				5
9294	1600'N.of 929		311	14 '	at cla	im line		SW
1-Y-9295	at Post #1;						a a su a	
	cl 298301	В	3"	18'		alan an a		8
<u> </u>	400'S of 7/1	В	311	15 •				W
	Post,_cl_2983		1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 		**** ********************************		n Malana Malana ana ang kanana Manjutana an Malana Ang Kanana Ang K Malana Ang Kanana Ang Ka	
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			հատեսալացած է հաղերաբացիս ու եւ տարուն սու տեղ պատճանան	tan da internet da se appendiente de la constante de la constante de la constante de la constante de la consta Internet de la constante de la c	1	annung an spannan, a frisaganggiga.	and a second	
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STAGE I

BRANCH DFFICES 1500 PEMBERTON AVE., BOX 487, NORTH VANCOUVER, B.C. CAMPBELLTON, N.S.



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BONDAR-CLEGG & COMPANY LTD.

768A BELFAST ROAD (M.R. 1), OTTAWA 8, ONTARIO PHONE: 237-3110 TELEX: 013-3540

GEOCHEMICAL LAB REPORT

Extraction CH. Pb. Zn. No. Ag - KN03-HC1

Method

From CANADIAN JOHNS-MANYILLE CO. LINITED PROJECT: #160 (TREES) Date FEBRUARY 21, 19.72

Analyst AA - R.P

SAMPLE NO.	Ash Vt.	Cu Beh / pom	Ash/pos		Ho Ach Don	Ash/Dom	REMARKS
Y - 9039	. 126	395	1200	3600	28 /	1 /	INSURFICIENT SAMPLE FOR CHECK PD
40	.104	365	265	2100	24 /	2/	Borgan Tayo.
41	.109	395	570	1900	27 /	2.1	F. 51 , 72
42	.094	425	695	1700	27 /	2	F.ol. 52,72
43	.089	400	1209	2900	34 /	2 /	Check Pb - 1600
	. 127	320	320	2400	23 /	1 /	
45	.081	445	615	4000	31 /	2 /	Anno an ann an Anna an
46	. 107	310	445	3400	19 /	2 /	
47	. 125	335	600	3000	16 /	1 /	
48	.084	430	430 -	3600	30 /	2 /	
49	.136	200	250	1800	18 /	1 /	
50	. 126	250	445	2400	20 /	1/	
51	.120	230	315	2000	21 /	1 /	
52	.123	240	295	2300	24 /	1 /	
53	.109	255	310	2400	28 /	2 /	
54	.138	260	760	2200	22 /	1 /	
55	.085	280	735	2400	: 34 /	2 /	
56	.095	295	575	2500	26 /	1 /	
57	.082	240	505	1200	24 /	2 /	
58	.077	260	440	1600	6 /	2	
59	.061	345	810	3000	19 /	7 /	
60	.067	325	735	3000	15 /	1/	
61	. 129	260	486	2200	14 /	1/	
62	.065	305	865	4300	15 /	1 /	
63	.072	275	575	1900	14 /	2 /	
64	. 101	295	650	3400	15 /	8 /	
<u>65</u>	.105	200	395	1900	10 ,	.5 /	
56	.078	305	880	3300	13 /	1 /	
67	. 095	210	405	1700	16 /	1 /	
68	.091	240	785	2900	16 /	1 /	
69	.052	386	740	4200	19 /	2 /	



TELEX: 013-3548

No: 16-2

y

		·····					K 6 P		
5 амр Ү -	LE NO.	Ash Wt grams	Cu Ash/pp	Bb Ash/ppm	Zn Ash/ppm	No Ash/ppm	Ash		REMARKS
۲.	9070	.095	270	1300	3600	13 /	1 /	/	Check Pb - 1200
	71	.063	395	1100	3200	24 /	1 /		" Pb - 970
	73	.092	195	320	2200	11 /	11	1	
	74	.125	225	390	1800	8 /	1/	1	
	78 Aw	.070	430	1200	12000	14	1/	1	· · · · · · · · · · · · · · · · · · ·
	76 BW	.078	330	1100	18990	13 /	1 /	Checi	Pb - 1200, Za - 16,900
[_ 77 BW	.077	325	770	15600	16 /	1 /		Check Za - 14,900
	78	. 150	160	285	1500	15 (1/	. 	
	79	.183	140	490	2400	16 1	<u>'</u> 7 /		
	60	.118	135	505	2900	15 /	91		
	81	.181	120	340	1400	13 /	6.1		
11 - 2 -11-2-11-2-11-2-11-2-11-2-11-2-11	82	. 121	155	440	1700	_14_	<u> </u>		
	83	.105	205	420	1500	15 /	14 /		
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n Le glasse i									5B

7 BELFAS	BT ROAD	, ОТТАУ	VA, ONT	ARIO, K1	g ozs	PHONE	237-3110	TELEX: 053-3548		
Cu, Pb, B	n , lio - 3	Ge ••••••••	eoche	mical			6-2			
A.A.						v. P. J. Ienedian	Johns - H	wille Co. 254.		
TRANS				· · · · · · · · · · · · · · · · · · ·	From Project # 163					
tion Used	ASH VI.	Ou	23	20	Date19					
SAMPLE NO.	63.000	ypa/ash	yya/ash	yyn/anb	yya/a a		: -	REMARKS		
V ~ 692 '	.172	275 /	280 /	11300 /	64 /		:			
95	.120	5T5 🗸	600 /	3900 /	63 /					
94	.135	260 /	310 /	900/	37 /			a yan kana kana kana kana kana kana kana		
95	.194	575 /	305 /	3400	× 1.			anna a sha a balanni gana a sha ga sha a sa sha a sa		
96	.131	570 J	495 /	1450	45 /					
97	.129	425 /	1100 /	3700 /	37 /					
99	.101	315 /	435 /	1700	44 /					
99	.144	355	310 /	2200	20 /			1 Iba zilaz		
· ~ 700	,124	380 /	975 /	980 -	84 /			for and Dree		
-1166	. 229	130 ,	390 }	2200 /	13 /					
67	.204	140 /	395	1950	11 /					
	.144	540	525 /	4000						
69	.125	390	575 /	2590 /	22	(
70	.117	510	450	31.00	26			1976 - 1977 - 1976 - 1976 - 1976 - 1977 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 -		
72	.177	225	250	2700 /	a /			<u>.</u>		
72	.157	210	530	2050 /	17			· · ·		
73	.106	330		20900	12 /					
74	.155	330	340	8290	16					
75	.177	220 /	610 /	2950	11					
76	.115	340 /	565/	2000 /	15 /					
- 1466	.151	375 /	290	3690						
67			/	1	/	· · · · · · · · · · · · · · · · · · ·				
	.115	550	975 /	4260	43 /					
	.187	330	340	8390 /	40 /			9 <u>.</u>		
	.108	324	460 /	2700/	• /					
70	.076	510	670	1290/	55 /					
71	•10 <u>3</u>	370	405	2600/	45 /					
72	.180	155 /	445 /	1390 /	17 /					
73	.124	380 /	320	1600	n /					
14	.080	560 /	475 /	4900 /	20					
75	.226	115 /	395 /	2300 / 2800 /	18	·····				

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BONDAR-CLEGG & COMPANY LTD.

Report No.

Geochemical Lab Report

Page No. _____

SAMPLE NO.	ISH Vt. Oa promo pyn/ad	th ppn/ach	yyn/ash	ppn/ant	· · · · · · · · · · · · · · · · · · ·	REMARKS
V - 1477	.097 445	/ 640 /	3100	29		
78	.088 365	760	1990 /	19		•
79	.069 405	520	1550 /	26		
80	.100 390	× \$10	2900	85		
8 1	.126 160	220	1,500 /	25		
82	.104 305	/ 700 /	2090 /	15		
8 5	.105 325	/ 190	2990/	10		
	.184 305	/ 410	1590	120		
85	.136 190	/ 990 /	1600 /	16		
	.126 180	/ 445 /	1490	16		
67	.148 155	/ 300 /	1100	11		
	.090 400	/ 620 /	2300 -	19		
	.064 900	V 970 /	31.00	22		
90	.057 455	J 545 1	2450	32		,
9 2	,082 280	/ 770 /	3400 /	15 -		
98	,106 340	480 /	1250	25		
93	.115 200	365 /	16200 /	19		
¥ - 9271	.135 405	460	3000 /	15		
72	.095 285	605 /	15000	20		
73	.139 195	/	1590 /	9		
74	.119 325	× 305/	1700 /	17		
75	.213 120	× 315/	1700 /	15		
76	.184 425		21.00 /	40		
77	.149 200	-/ 575 /	16400 /	9		
70	,119 205	/ 380 /	790 -	17		· · · · · · · · · · · · · · · · · · ·
79	.185 220	7 300 /	2600 /	12/		
80	.077 300	1	9050	27		
÷	,189 380	/ 455/	3900	3 0		
\$2	.133 195	/ 255/	8890 /	12		,
83	.130 . 205	/ 595'	9890~	15		
84	.127 340	1 439	4400 /	24		Bir an
85	.123 245	/ 390 /	10400	15		
•	.101 415		4750	17		an a an
8 7	.096 290	/ 480 /	10200	19		
	.099 260	T	13100	10		
	.199 165	/ 415/	11700	11		nder den eine Hande Bibern Werten eine eine eine eine Biblioteken eine Alfan

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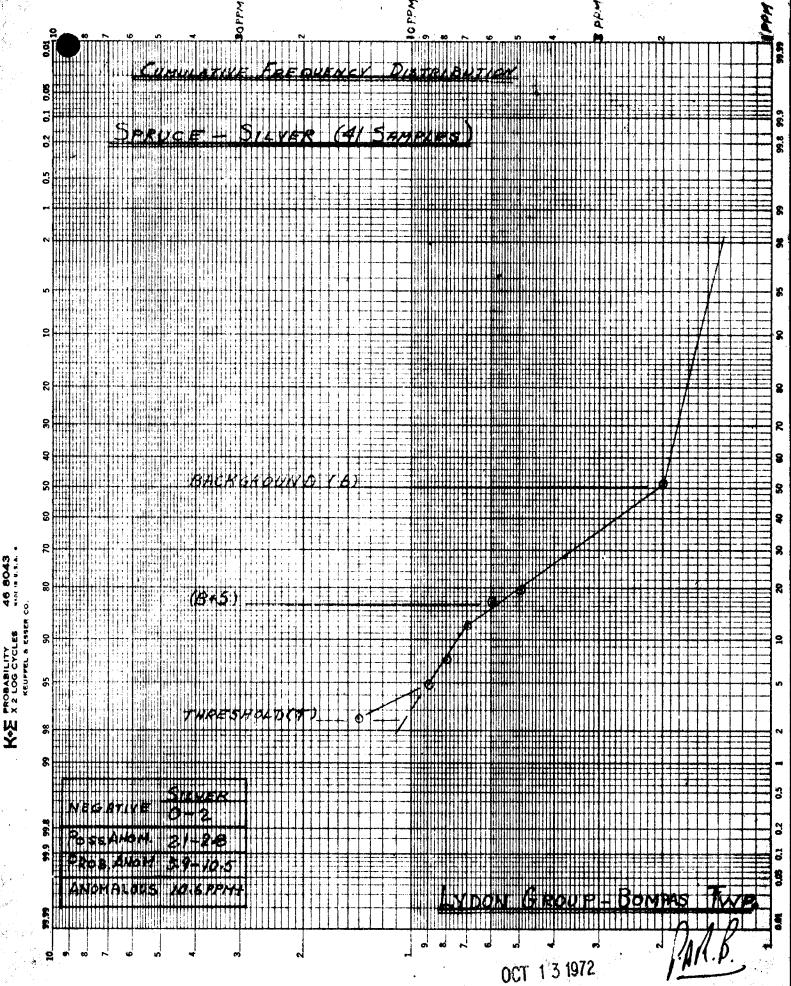
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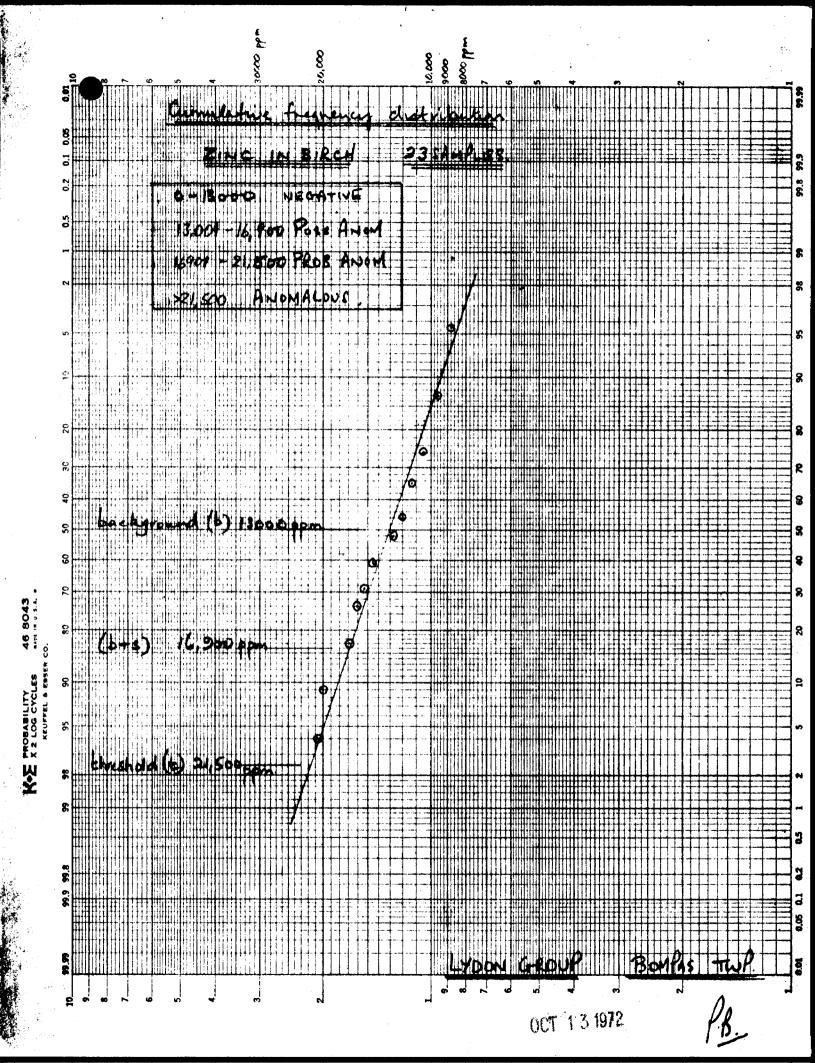
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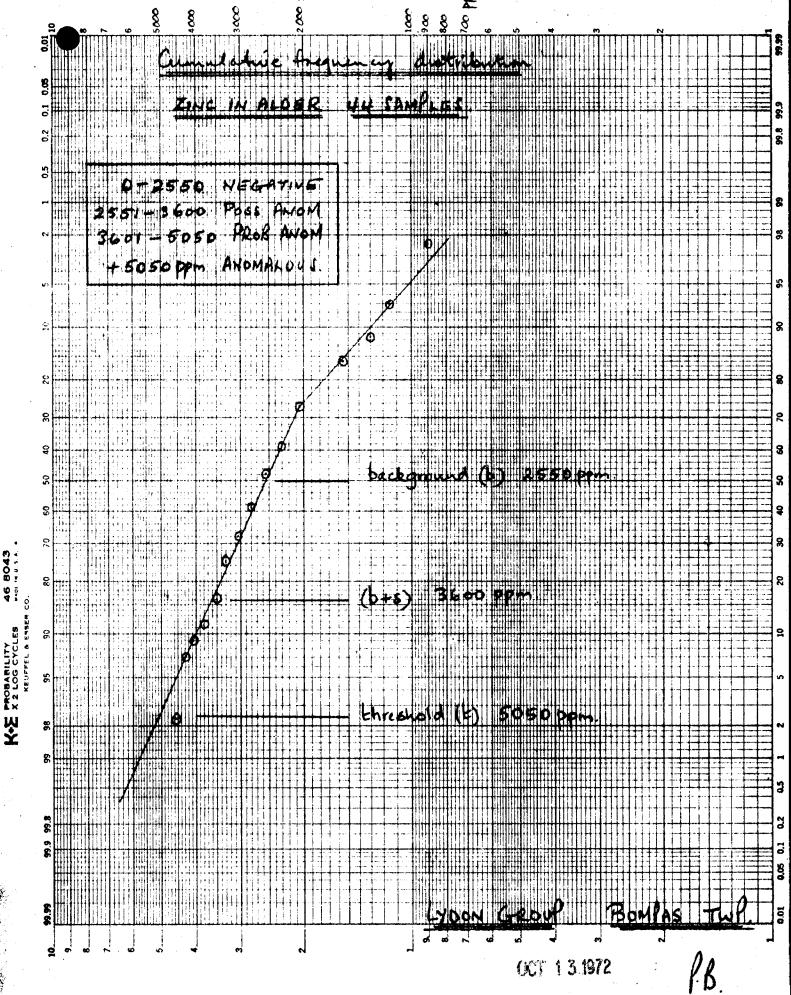
Geochemical Lab Report

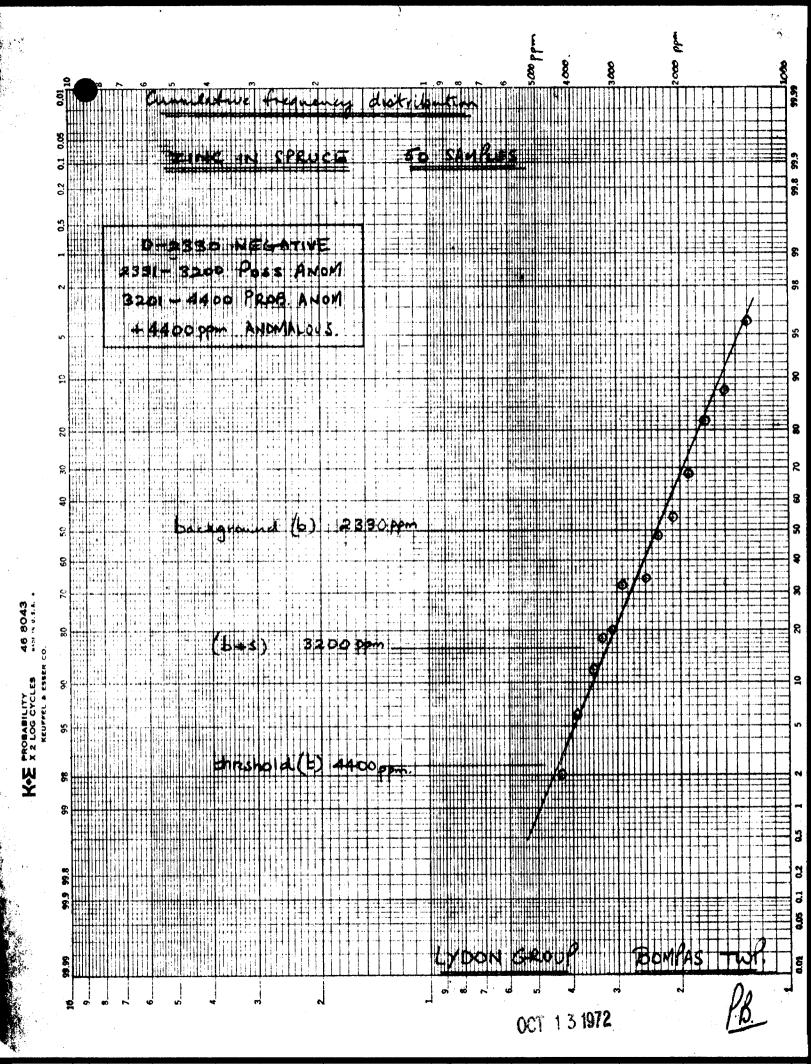
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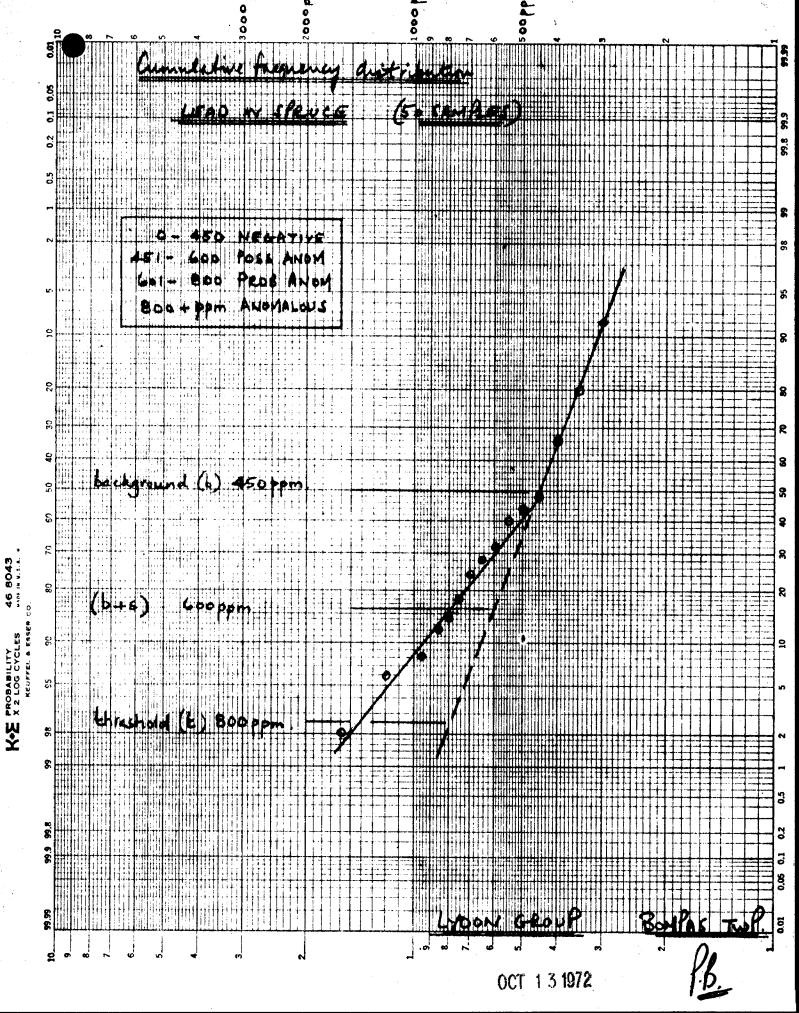
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T - 9890	.197	850	480 /	12300	13		
5 0.	.133	255 /		11900	14		
\$2	.125	240 /	670 /	17400	18		
93	.134	825 /	730 /	1,7900	13		
\$4	,118	220 /	575 -	9500	14		
95	.099	31.5 /	875 /	20200	12		
*	.130	225 /	475 /	1 5900	11		
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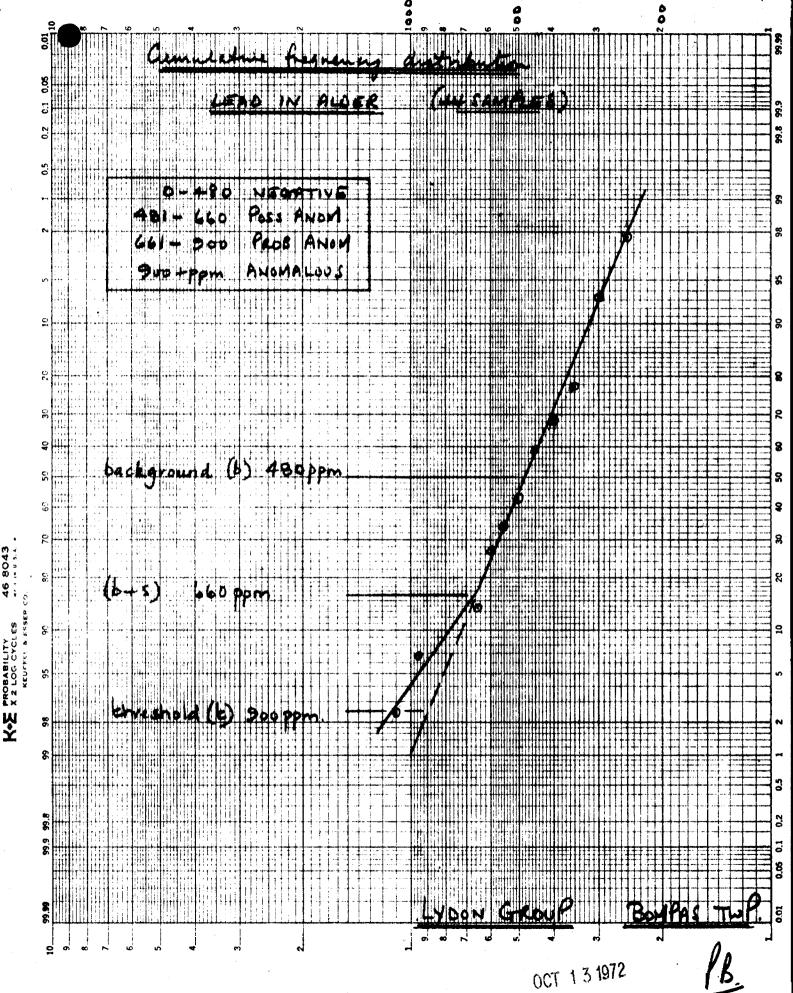






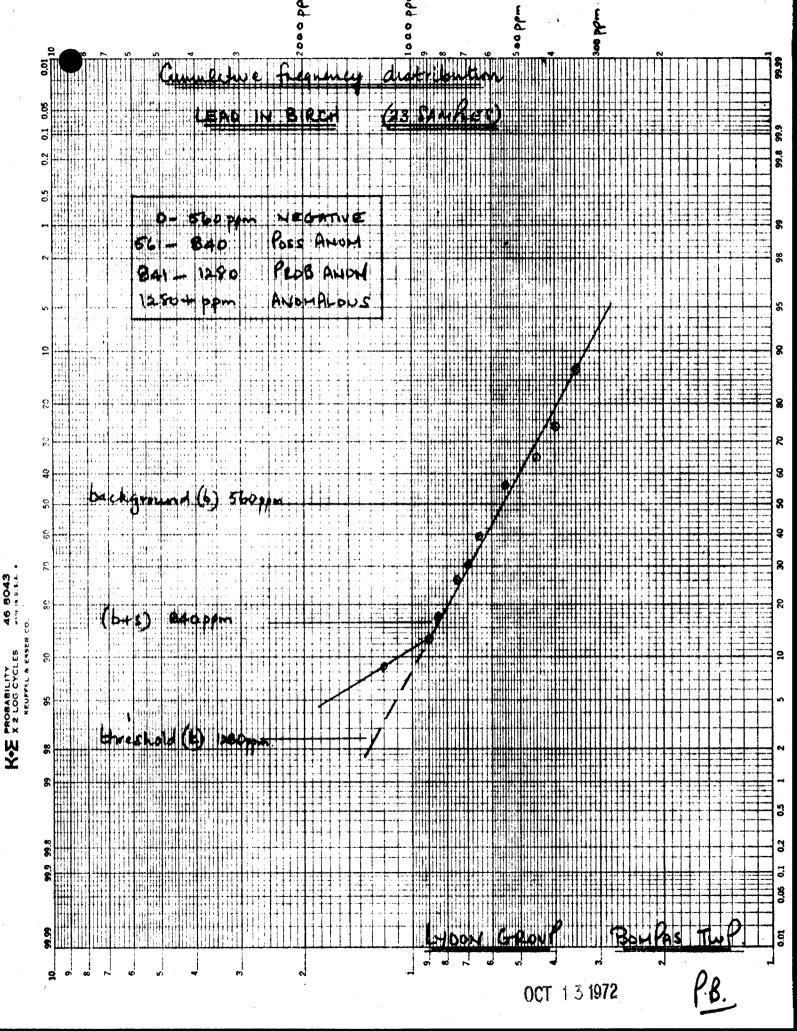


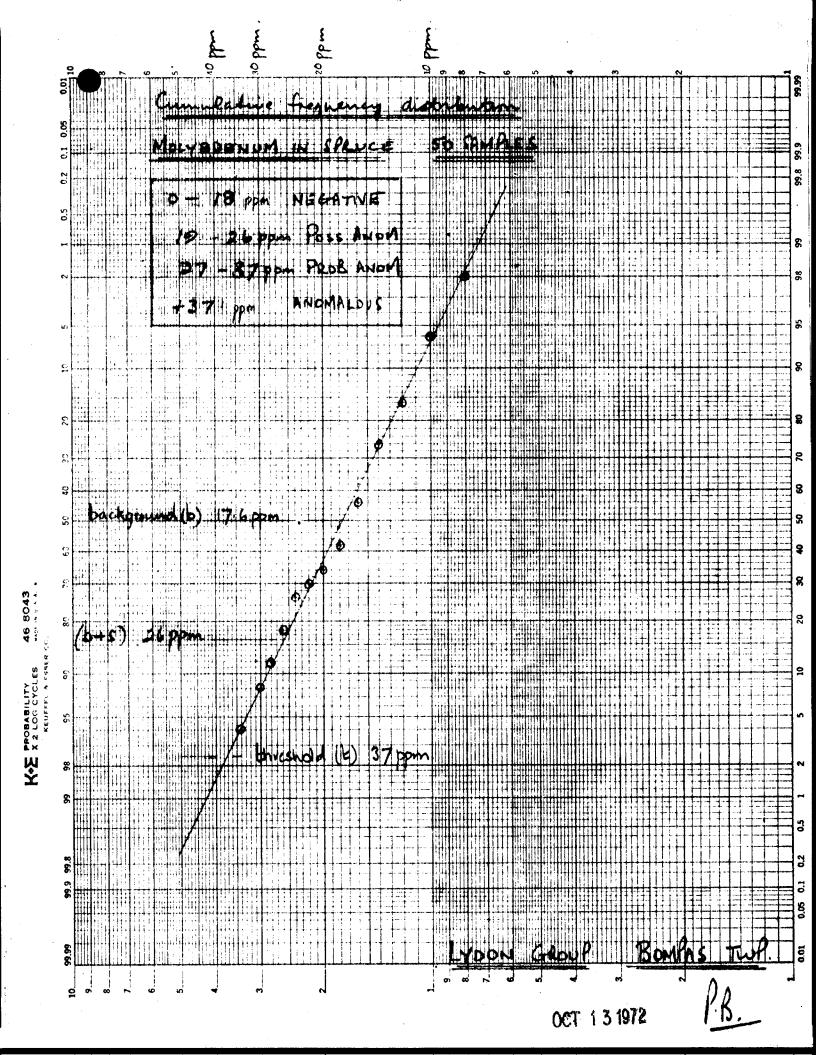


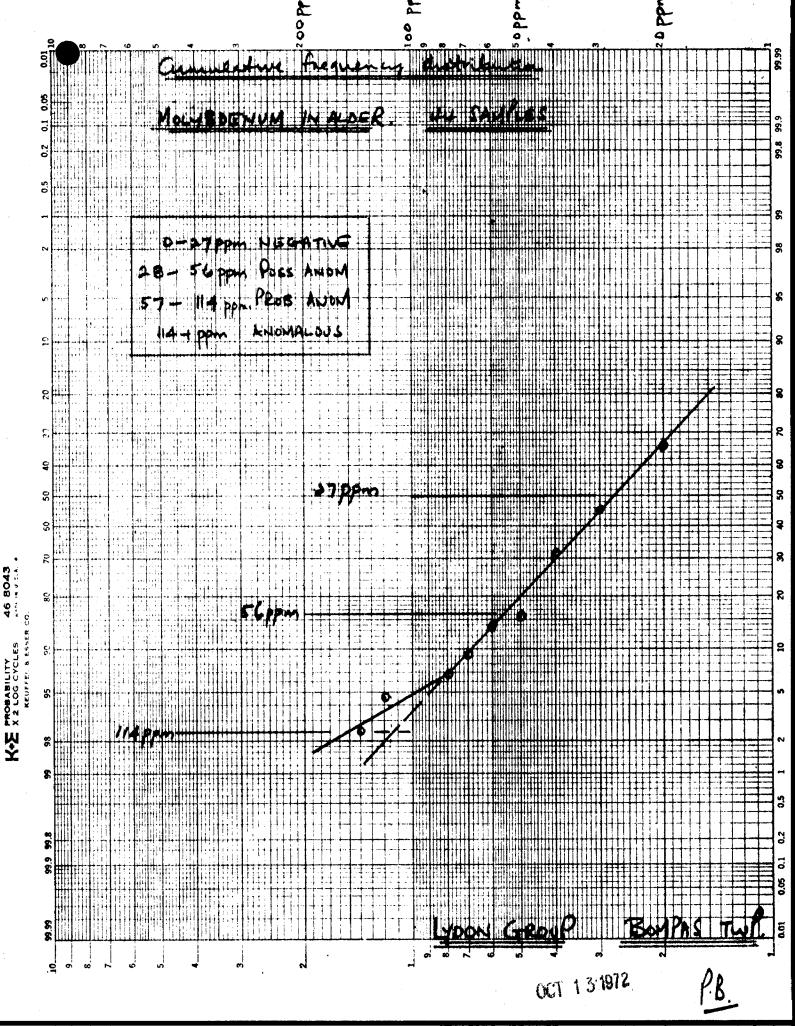


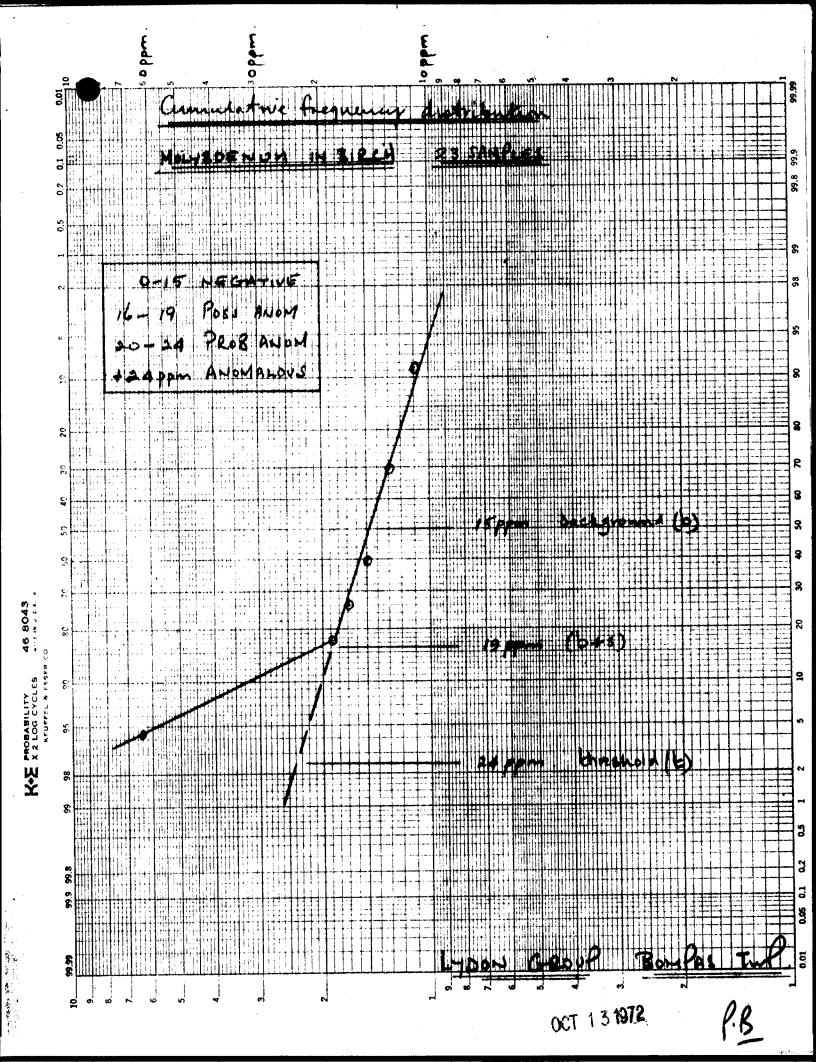
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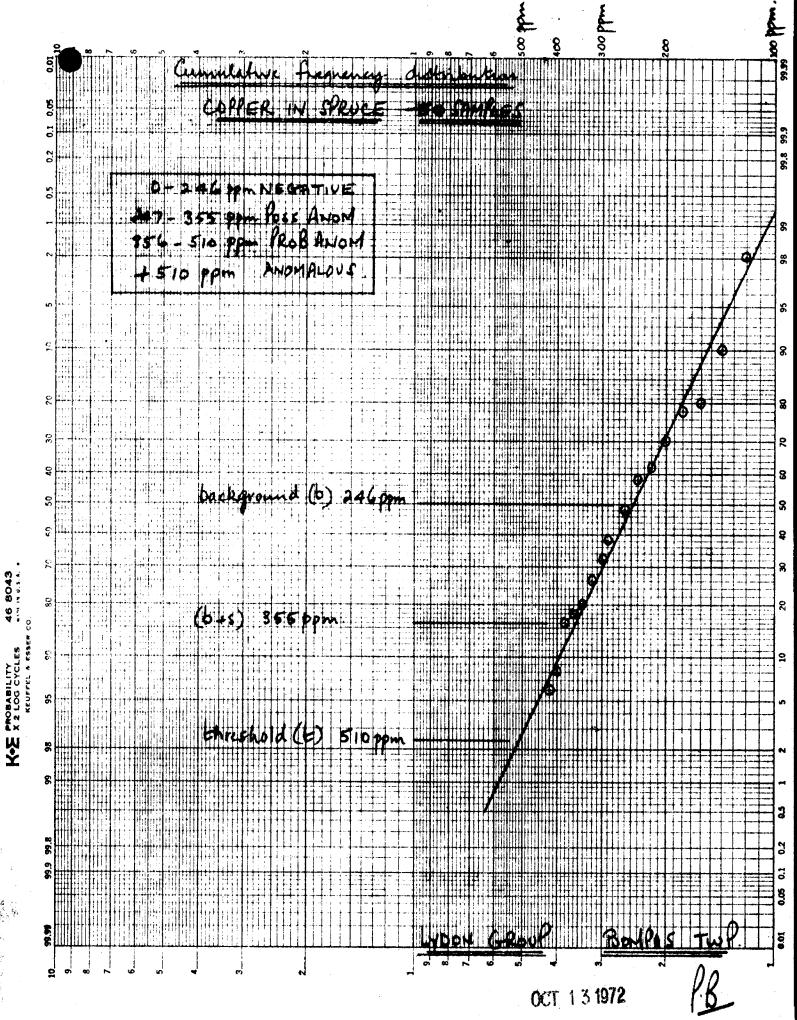
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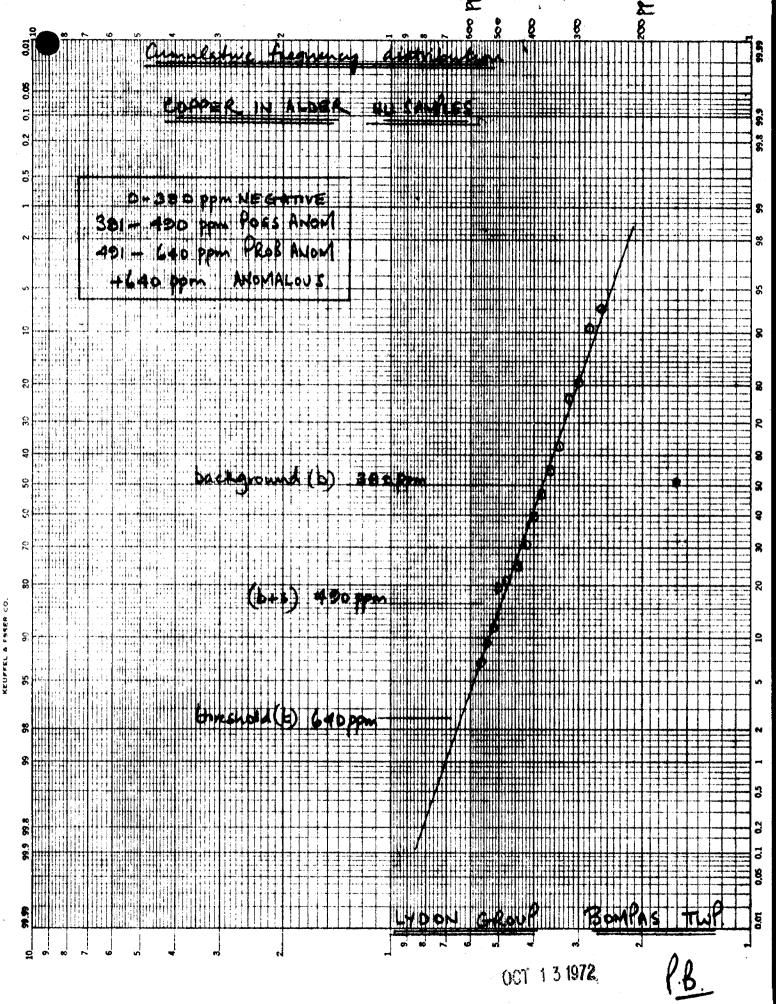






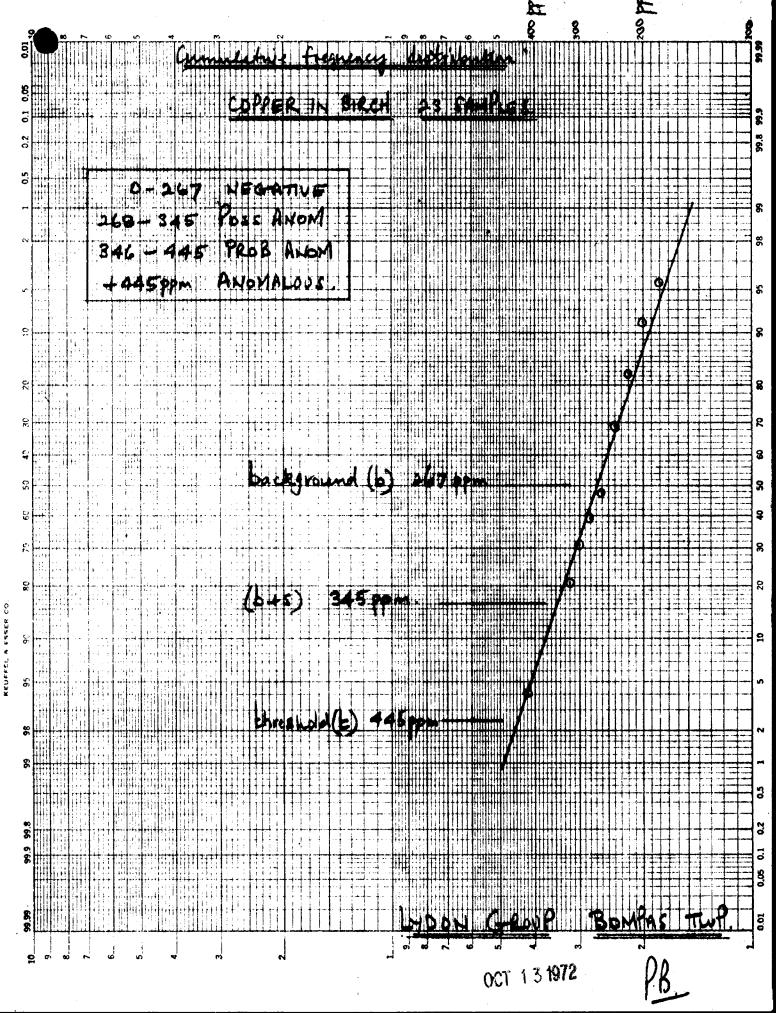






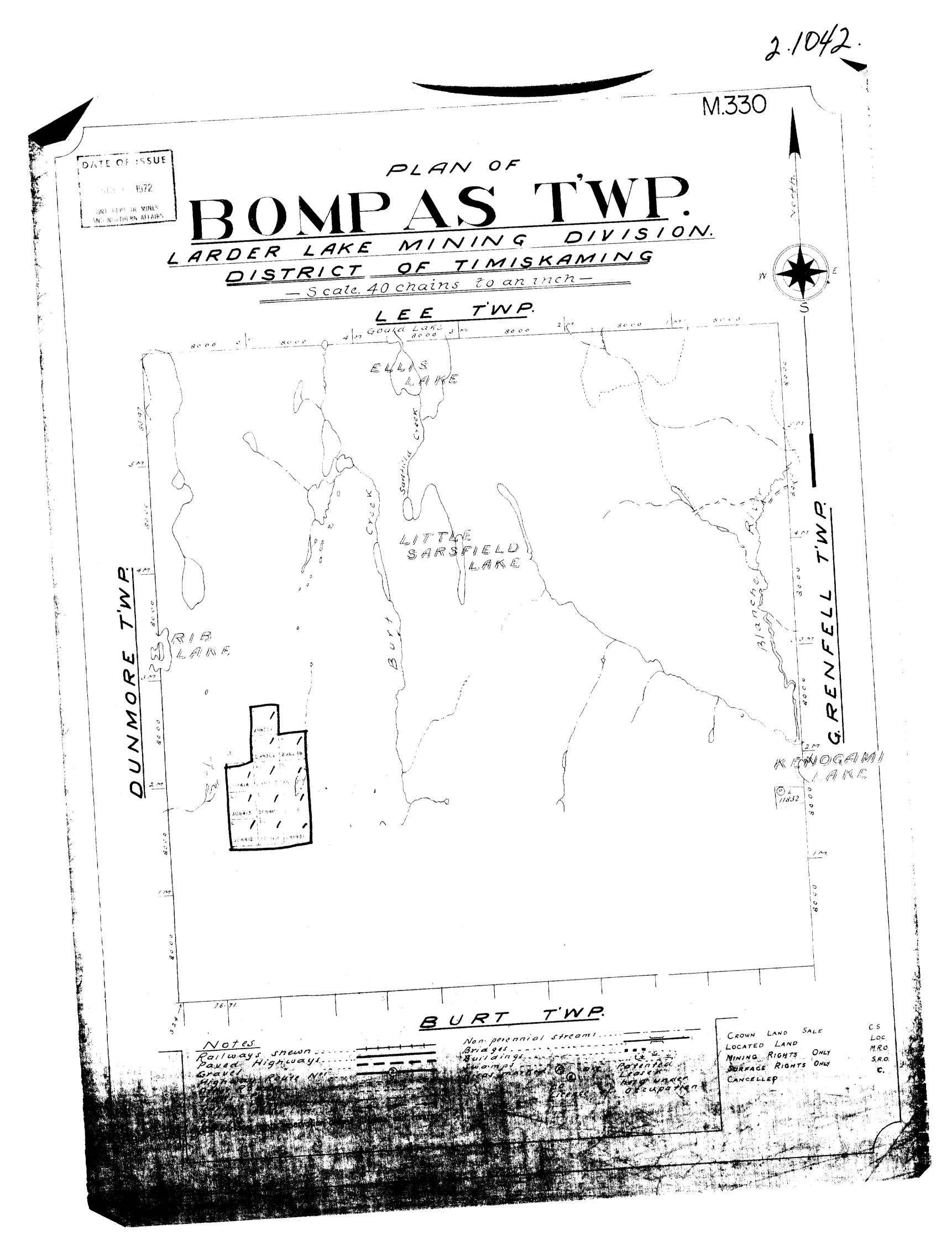
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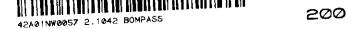


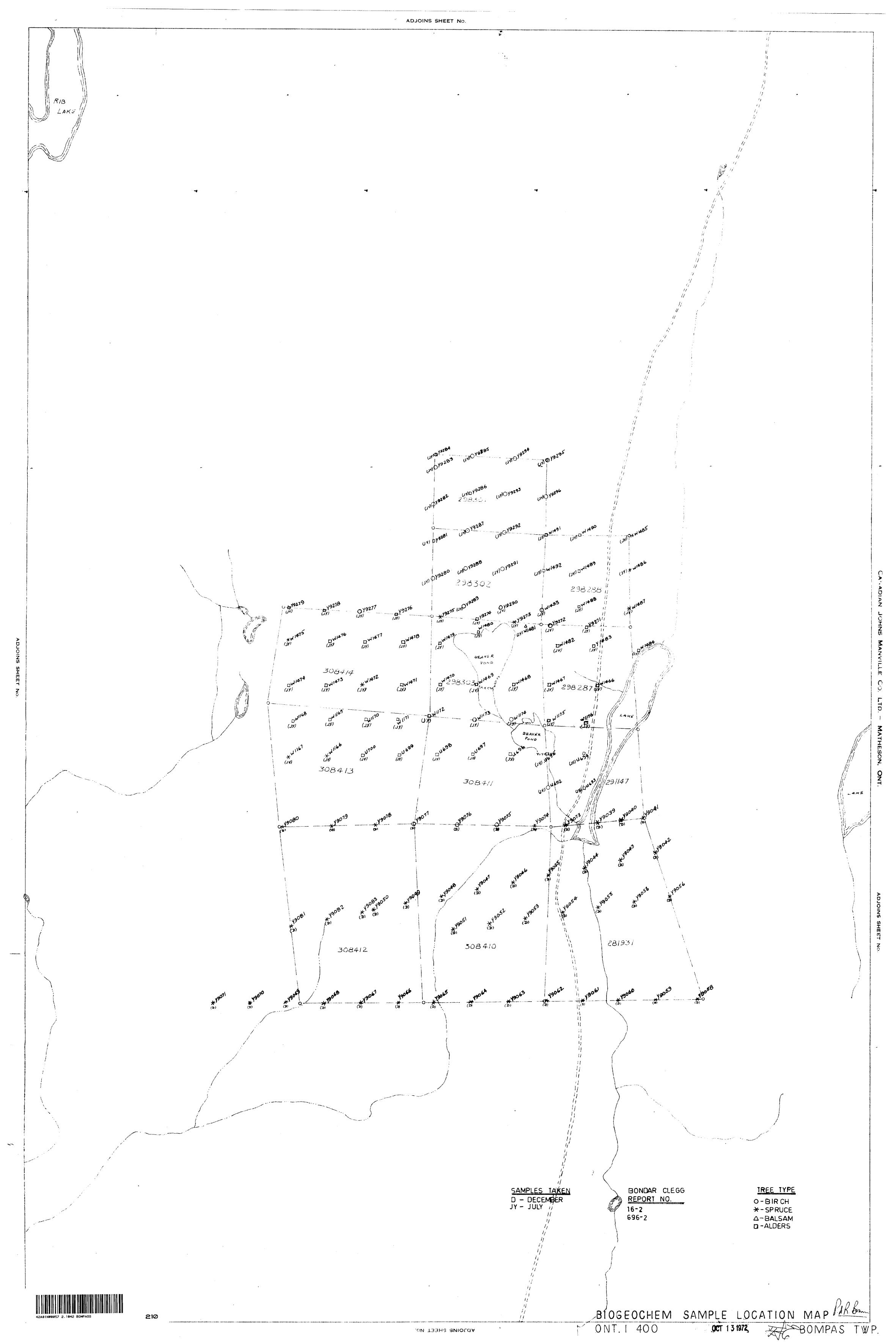
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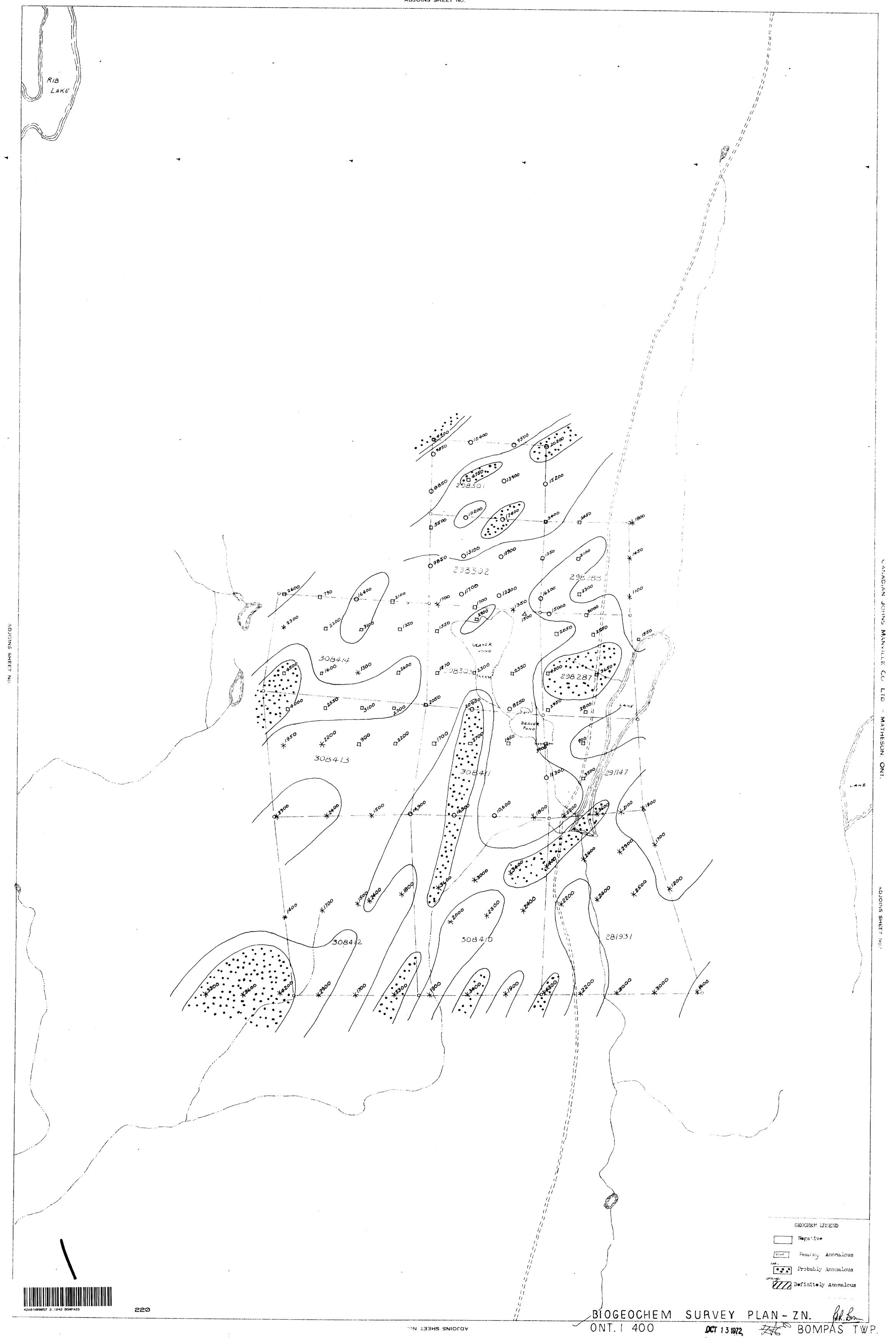
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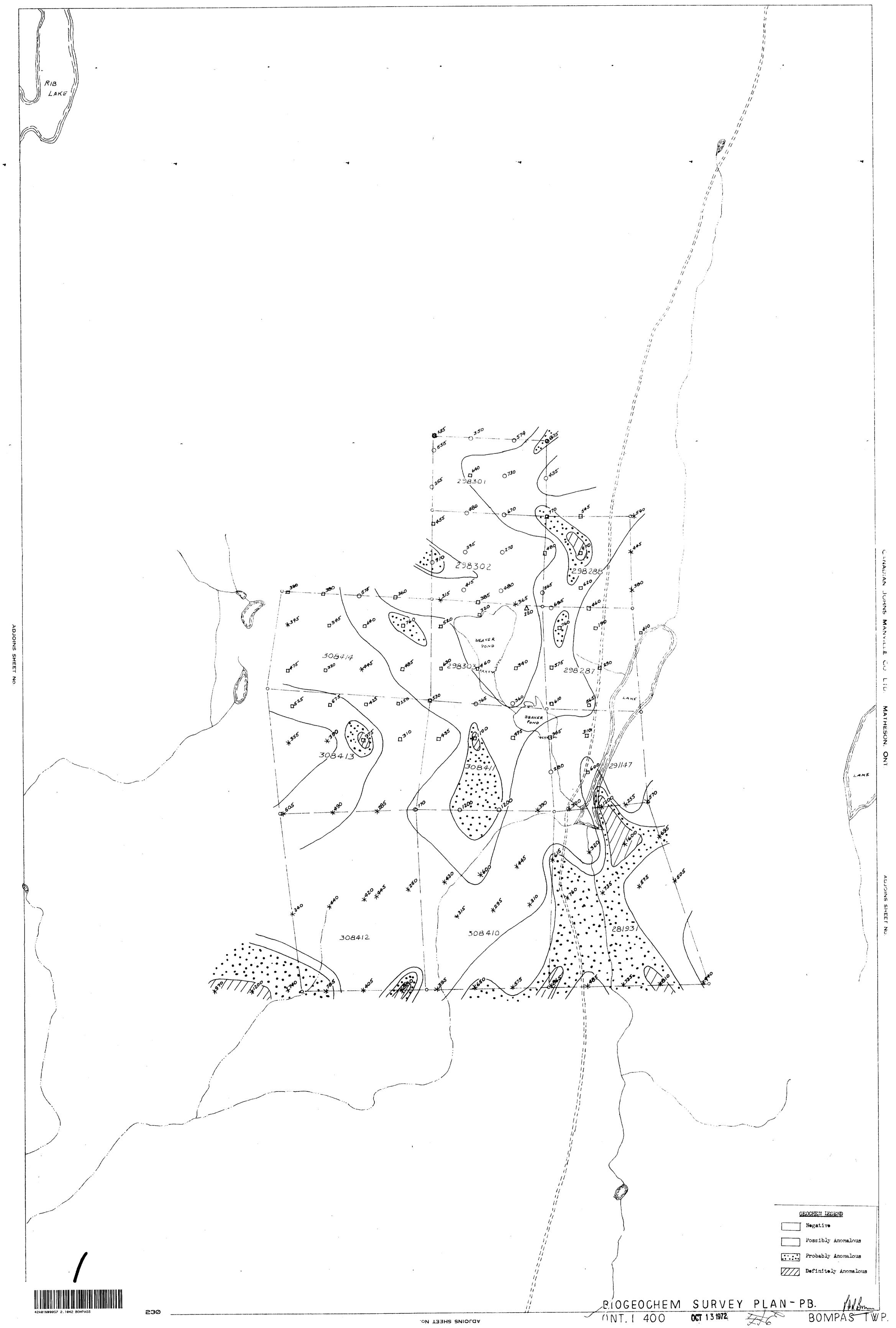


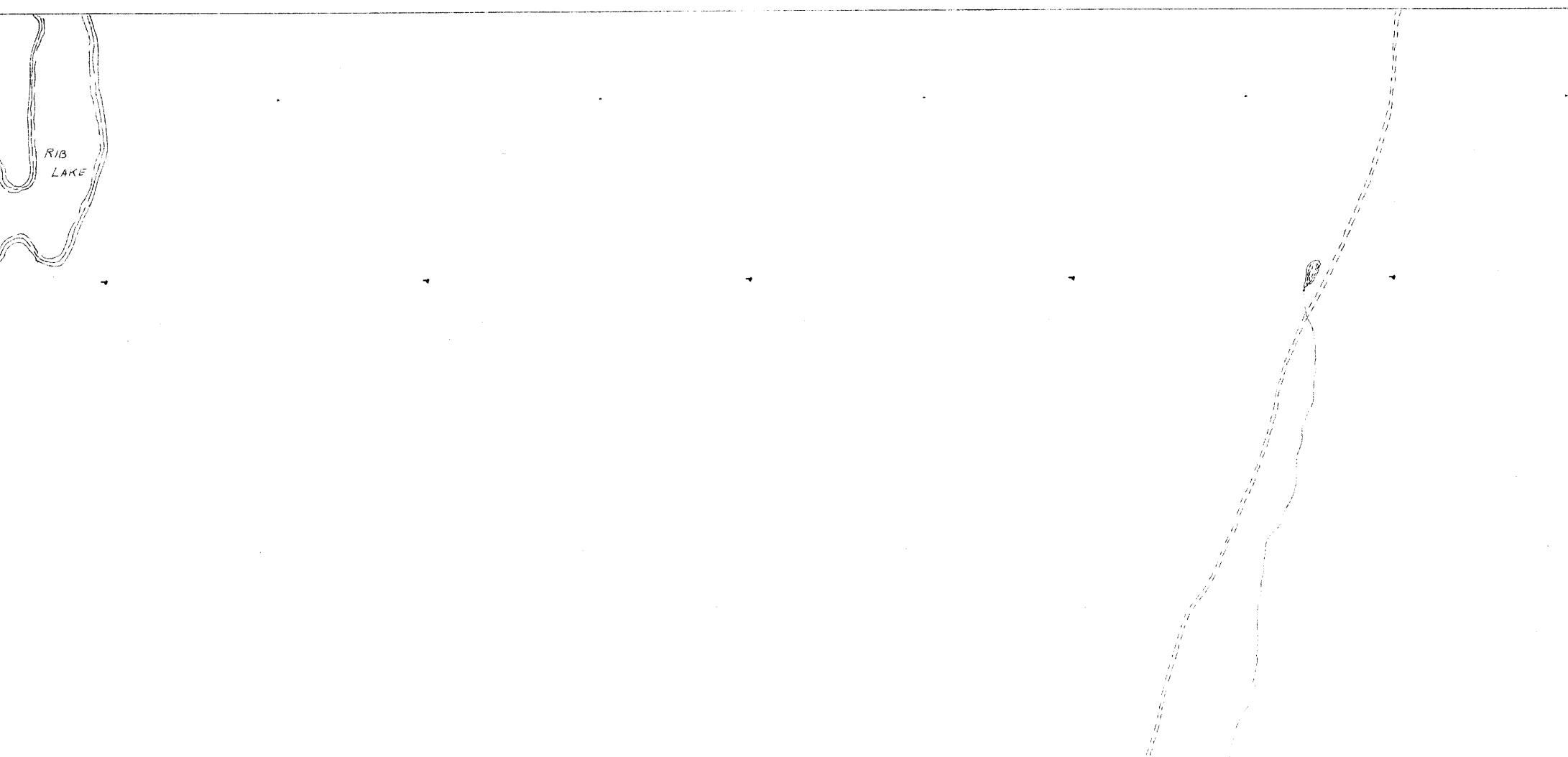




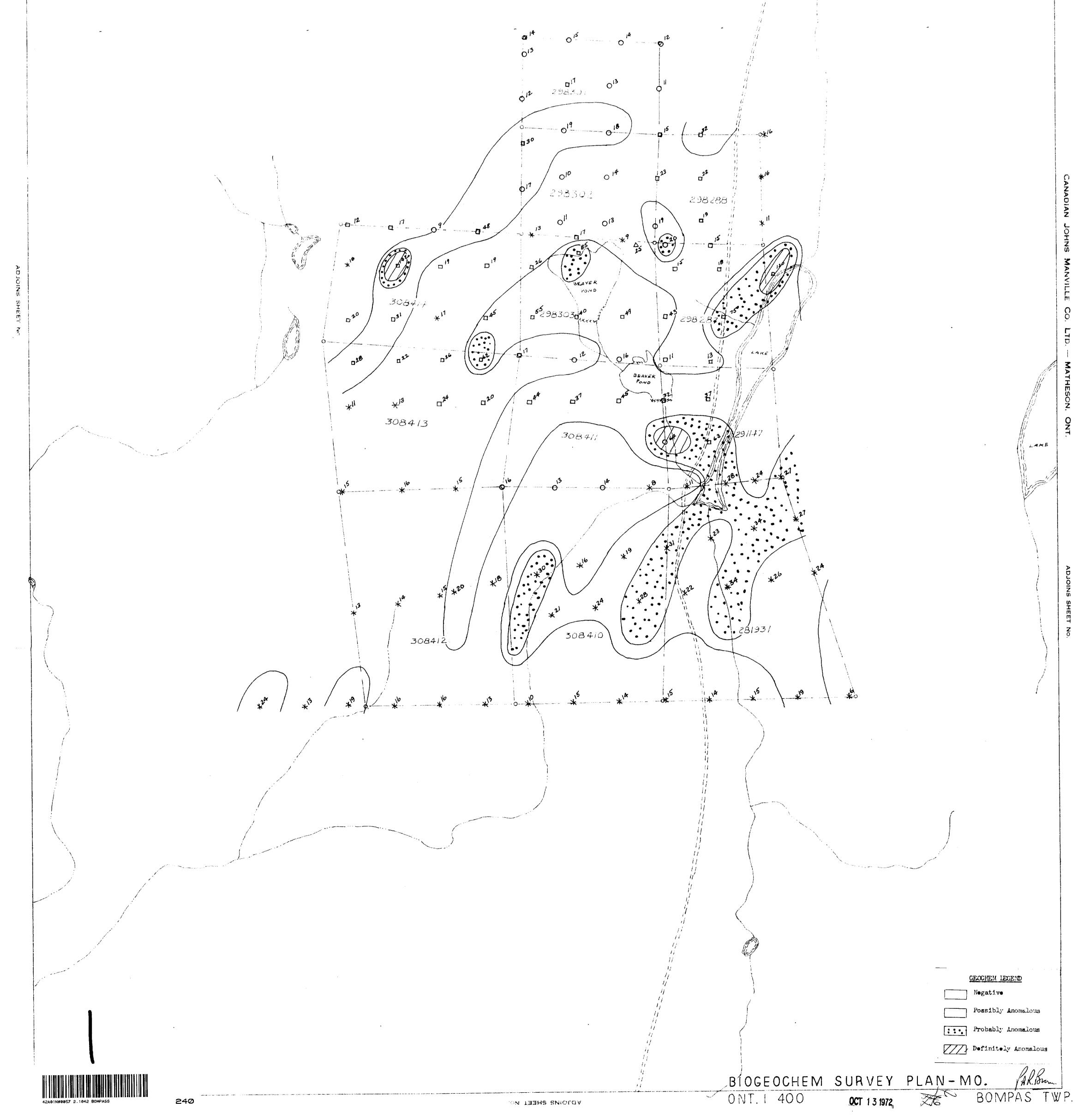


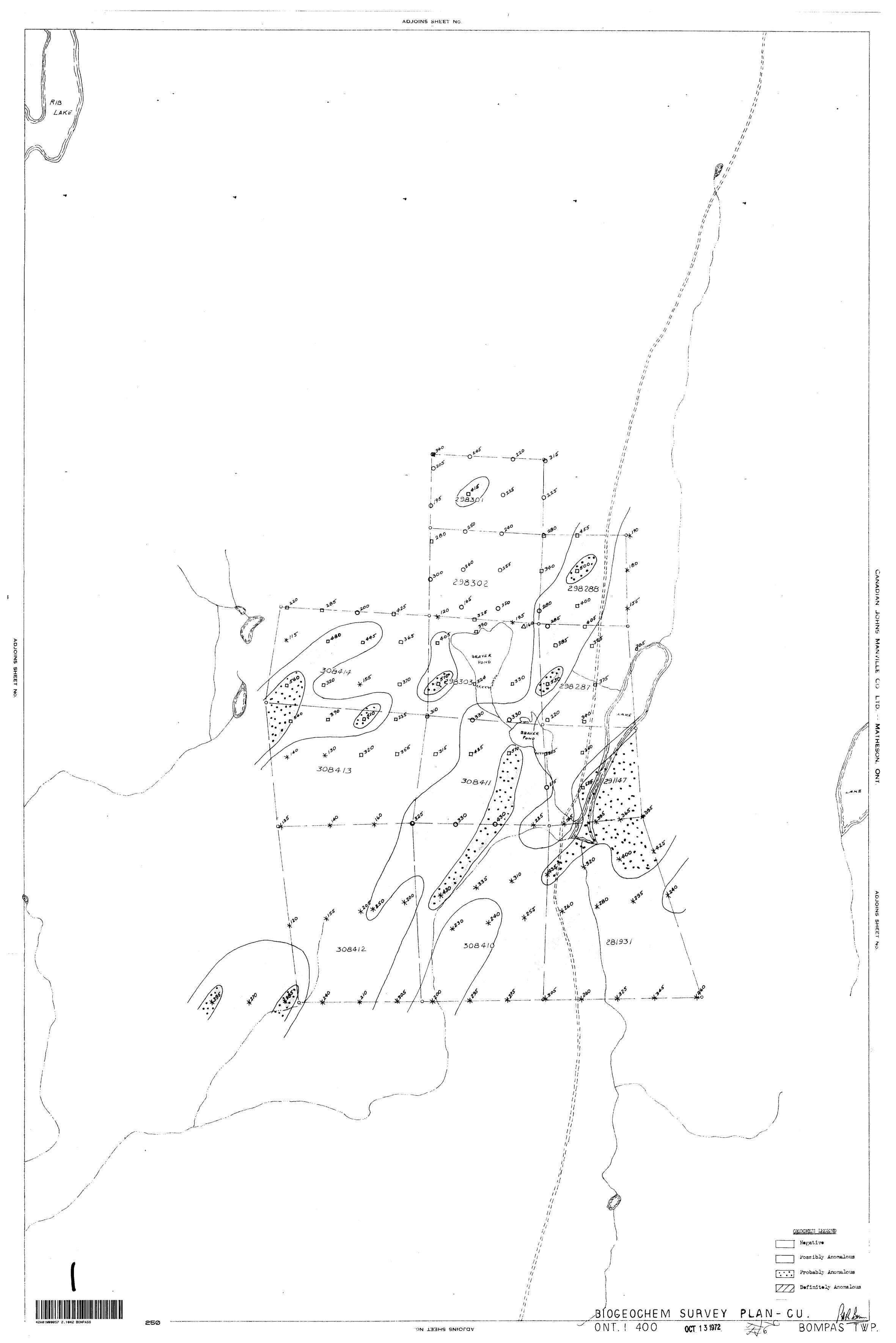






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