

Report on the M3 Group. Adain & Abbots ford Tups. 



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# REPORT ON THE M3 GROUP ADAIR AND ABBOTSFORD TOWNSHIPS, ONTARIO

#### INTRODUCTION

Exploration interest in the Adair-Abbotsford Township area by Canadian Javelin and associated companies began with the acquisition of 62 claims lying west of Joe Lake, Adair Township in the summer of 1964. This property became the focal point of an airborne geophysical survey (magnetic and electro magnetic) covering a block of about 300 square miles considered as favorable exploration territory. This was selected on the basis of published aero magnetic data and recent geologic mapping as presented in "South Patten River Area" by S. B. Lumbers, Ontario Department of Mines, Report 14, 1963.

The geophysical survey was flown at 1/8 mile intervals in an east-west direction searching for conductors oriented transverse to the general geologic trends. This work was done by Canadian Aero Mineral Surveys on May 5, 1965, their project number 5060, with report of June 29, 1965.

This survey did not locate anomalies of any significance around Joe Lake, but it did report several conductors in the western part of the area near the Mace Bay Road. Six anomalous zones or areas occur, three of which appear on two or more flight lines and appear to trend roughly north-south. These targets became the center of interest during the summer's exploration program herein described.

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## GENERAL INFORMATION

#### LOCATION

The area of interest lies in the western part of Adair and the eastern part of Abbotsford Townships, District of Cochrane, Ontario. The Mace Bay road of the Abitibi Pulp & Paper Co. roughly biscets the area around mile 16 on this road. A recently opened road to Val Paradis, Quebec permits fairly easy access to the labour and supply markets.

#### TOPOGRAPHY

The area is generally quite flat and covered with forest growth in various stages of development. Logging operations were currently under way in the general region. Boulder clay covers most of the area, though there are several areas of sandy outwash deposits. Erosion resistant rocks form the cores of low ridges here and there in which scattered outcrops occur.

#### CLAIMS

The M3 group consists of 36, approximately 40 acre, unpatented mineral claims registered in the name of Canadian Javelin Limited with the Ontario Department of Mines Recorders Office, Kirkland Lake, Ontario, Larder Lake Division, as per list:

OVER

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L 91663 - 91667	5 claims
L 91671 - 91673	3 claims
L 91685 - 91686	2 claims
L 91716	l claim
L 91723 - 91730	8 claims
L 91734 - 91737	4 claims
L 91745 - 91747	3 claims
L 91749 - 91750 💦	2 claims

L 92300 - 92301	2 claims
L 92303 - 92307	5 claims
L 92309	1 claim
	36

#### HISTORY

Fifty nine claims were staked on May 23 - 25, recorded June 21. Some existing claims covering the anomalous area were due to expire June 24th, and operations were planned to stake these claims the next day. Accordingly, camp was re-established at old camp 20 on June 23rd and 28 claims posted June 25th by W. & P. Hegler, W. Blakeman, T. Fitzgerald and others. Eight claims were added in August to make a total of 95 claims in the block, but only 36 of these are to form the block to be retained.

Anomaly 3, near the Mace Bay road, was quickly located on the ground, but efforts to find anomaly 1 with east-west lines proved unsuccessful. By July 2nd, T. Fitzgerald had learned that there seemed to be several, discontinuous conductors in area 3 rather than a continuous northsouth conductor as suggested by the aerial survey.

Bad weather had hampered operations and no clear picture of the conductor situation existed when the writer and W. Hegler arrived on July 8th. Examination of the work suggested that the conductive bodies might be parallel with the NW-SE trends of the rock, therefore, a new coordinate system was laid out along the camp 20 road and NE-SW lines run.

By July 17th, the two conductors in anomaly 3 had been outlined. The northern anomaly was entirely covered, though two small outcrops very

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close to it exhibited oxidized sulfides in contorted amphibolitic tuff. The southern conductor seemed to lie between outcrops exhibiting little evidence of mineralization. Samples of the rusty rocks were collected for spectrographic analysis, the returns were virtually nil, see Appendix.

W. Hegler and the writer left for Ottawa on July 14th to review the situation with the Chief Engineer; T. Ftizgerald and P. Hegler remained to continue the line cutting and E. M. work. The essence of the report to the Chief Engineer was that the strong conductors in anomaly area 3 had been located, were drift covered, adjacent out crops exhibited evidence of sulfide mineralization, there were signs of structural disturbance, but that there were no signs of significant mineralization. It was concluded that the anomalies could be tested with a drill faster than any other method.

The Ottawa review affirmed that more work was to be done, and W. Blakeman arrived July 17th. From then till about the end of the month activities consisted of outlining conductors, geologic examinations and additional protective staking further west. Some old drill sites were encountered in area one. Other staking parties were in the area by July 30th.

One drill machine arrived July 31st and a second on August 3rd. Hole 1 began August 4th, drilling the north conductor in area 3. A very fine grained sulfide bearing, thinly banded material was encountered which looks more like metallic cement than anything else. W. Blakeman's log of the 154.5 - 159 ft. section reads: "finely disseminated pyrite-pyrrhotite

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with possible sphalerite, and magnetite in a banded quartz-hornblende host."

Hole 2 began August 7th, and encountered more of this very fine grained material across some 50 feet. As in hole 1, this material was split and sampled, not for what could be seen but for what couldn't be seen.

Hole 3 began to explore the southern conductor on August 6th. The conductor was encountered below 121.5 as a "breccia zone containing massive, extremely fine grained, very metallic (looking) grey brown material, possibly sphalerite, and fragments of quartz and minor scattered pyrite" to 124.5, then a graphitic, chloritized and pyrrhotiferous shear zone to 131.5, -- "below which are intermixed hornblende tuffs, cherts, garnetiferous amphibilites, altered fault zones, some carbonate, and pyritepyrrholite mineralization locally heavy enough to have been sampled.

Holes 4, 5, and 6 encountered similar material, but sampling

began to drop off because returns from the first holes had begun to show

the lack of any metallics. W. Blakeman left about the middle of the month on other matters so that general responsibility fell to W. Hegler and T. Fitzgerald. It had been decided in Ottawa to probe the southern conductor at depth with one drill, using the other to investigate other anomalies. The writer arrived back in camp August 20th, but was unable to participate much in activities because he was committed to another project being started in nearby Quebec. W. Hegler left August 22nd.

As in area 3, the ground E.M. work showed the presence of several NW-SE conductors instead of a N-S conductor. These were drilled by holes 8 and 9. Both drills were stopped August 27th, the hole 9 rig was immediately moved to the Quebec job and the hole 7 rig moved into the anomalous areas east of the Mace Bay road. This rig was later returned to area one for holes 13 and 14.

By early September, the inclement weather and the priority of work in Quebec made removal of the camp necessary. Accordingly, T. Fitzgerald or the writer made several trips to the job to keep track of things while holes 10-14 were in progress. The last drill was released September 30th.

### LINE CUTTING

Line cutting began immediately after the June staking. A N10°E base line was established along the Mace Bay road near zone 3 and cross lines run from it. However, after determining that hese lines were nearly

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parallel with the conductors, a new base line running about N60°W along the camp 20 road was established, and cross lines run from this line. The initial grid had been extended into zone 1, so that in this area there was a duplication of lines as well.

The lines were cut and chained by locally hired labor from Val Paradis Quebec under contract on a per mile basis. The distribution of lines is as follows:

> Early grid, Zone 3, 23,000 ft. Zone 1, 33,000 ft. Detail grid, Zone 3, 32,000 ft. Zone 1, 45,000 ft. Zones 4-6 36,600 ft. 169,600 ft., 32 miles

Line spacing was 400 or 200 ft. as required, pickets were placed at 100 ft. intervals.

E.M. SURVEYS

The early E.M. work was laid out looking for the N.S. trending conductors indicated by the aerial survey. When no sense could be made of the responses, some spot checks were run which lead to the revised gird system and all areas had to be redone.

The survey was conducted by T. Fitzgerald as operator, P. Hegler was generally on the transmitter of the McPhar VHEM unit. Initially, the equipment was used as horizontal loop, 200 ft. cable length. Holes 1-4 were spotted on this information.

Some minor discrepancies in conductor position arose and part

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of the anomalous zones were rerun using the vertical loop broadside method. This procedure seemed to give better results and was used exclusively in zones 4-6. Eight conductors were detailed, all running NW-SE, with a steep northerly dip, widths around 50 ft. or less. Frequencies used were 600 and 2400 cps. - Nange: 100/200 + 300 ft separations as Horizontal Loop.

The plots of the survey are shown in the appendix. In phase to out of phase ratios of 2 or 3 or greater were quite frequently encountered and contributed to the decision to drill.

#### DRILLING

All drilling was done under contract by Continental Diamond Drilling of Rouyn, who erected a separate camp near the Camp 20 - Mace Bay road corner. Total footage drilled was 4234 ft., including 487 ft. of overburden.

#### GEOLOGY

#### GENERAL

The area in which the aerial survey picked up conductors corresponds with a low topographic rise trending NW-SE crossing between mile 1 and 2 of the Adair-Abbotsford town line. Scattered outcrops occur here and there along this rise, generally in clusters of several small exposures separated by intervals of overgrown sandy glacial debris. Lowlands seem to be underlain by clay. The outcrops are far from being as large or continuous as shown on Lumbers report of the area, and the tangle of brush makes outcrop searching quite difficult.

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Lumbers classified the rocks of the area as volcanics, tuffs, amphibolite, garnet amphibolite, pillow lava and prophyritic lavas. He was content to classify them only as acid or intermediate in composition. The writer agrees with Lumbers classification and interpretation of general geology.

The terms andesite and rhyolite have been used in this report for the sake of brevity. The distinction between them was made on the basis of light or darker color only, their usage is restricted to this sense and in no way do they imply a significant compositional difference, especially in that the color or some other feature of ten changes gradually in a few feet from one to another. Considerable petrographic work would be needed to properly identify the composition of these meta-volcanics of diverse origin. The light colored, thinly banded often contorted rocks are clearly tuffs, and they seem to be the most erosion resistant.

The characteristic feature is the almost ubiquitous presence of amphibole, mostly hornblende, in nearly all rocks. No pyroxenes were seen, though some undoubtedly exists.

The amphibole exists in two different environments, first as a small percentage in rhyolite, and second as dark green, amphibole rich bands.

The amphibole in the lavas occurs as discrete, randomly oriented crystals (phenocrysts) scattered throughout the aphanitic ground mass, usually in vaguely defined bands gradational into amphibole free bands in which small

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feldspar phenocrysts often appear. Small garnets are sometimes present in these amphibole bearing bands.

Amphibole also occurs in a very fine grained matrix in which the several amphibole crystals are arranged more or less radially in small clusters. This is the poikiloblastic texture often observed. This may give way to feldspar porphyry, garnet sometimes is seen in the poikiloblastic bands.

The amphibolite bands often contain  $\frac{1}{2}$  to 1" garnets. A few cases of the amphibolite forming injection stringers in volcanics were also observed. Amphibole also is found in the tuffs, usually lying parallel with the banding. Garnets and feldspar porphyroblasts also occur in the tuffs.

It would appear that there are both igneous and metamporphic features present in these volcanics, and that metamorphism seems to have produced mineralogic - textural features in some places not significantly different from the igneous features. The feldspar and amphibole porphries are likely igneous features when enclosed in a massive matrix, but in banded tuff or accompanied by garnet they likely are metamorphic, as are the garnetiferous amphibolite bands associated with tuffs.

Flow tops were not observed in any outcrops, but 1-3 ft. intervals in some holes exhibiting very irregular textures and structures likely represent flow boundaries.

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In considering the mineralization, Lumbers speaks of a prominent tuffaceous layer containing several, narrow, discontinuous shears marked by gossan and/or garnet-amphibolite, and all associated with three zones of shearing between his localities 4 and 5. He recognized that pyrrhotitepyrite were the principal sulfides, occurring in lenses or disseminations in 1-5 ft. shears and of short length. He claims to have seen chalcopyrite, but our examination failed to disclose any.

His description of the surface expression is essentially correct for the outcrops clearly show that the gossan is usually associated with garnet-amphibolite bands, but not all such bands have gossan, and many such bands appear in massive volcanics. The percentage of sulfides in these bands is quite low, being 5% or less.

The tuffs outcrop in several places, and a few very narrow rusty bands can be seen. There are no exposures anywhere of the pyrrhotiferous tuffs responsible for the E.M. anomalies.

#### AREA THREE

If one were to interpret the geology from the outcrops, one would likely conclude that tuffs and amphibolites underlay the area. No exposures of massive flow rocks occur.

The electro magnetic survey located two conductors, a northern one some 800 ft. long, and a southern one over 4,000 ft. long which becomes zone 5 to the east.

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### North Conductor:

The conductor consists of a tuff unit about 30-40 feet thick containing a thinly banded, aphanitic, mudstone like material in which many of the 1/4 - 1/2 unit bands contain massive, very fine grained pyrrhotite. The sulfide mineralization is quite strong on the north (top?) side of the sequence and gradually changes southerly to coarser grained pyrrhotite disseminated in mixed amphibore-tuff.

The sulfide horizon is clearly associated with and is an intimate part of the tuffaceous zone. It is underlain by rhyolite for the most part. The conductive horizon was encountered in hole 1 about where the E. M. survey suggested, but on line 2W the horizontal loop response lies about 100 ft. to the south for some reason. Thus hole 2 started in the sulfide bearing zone, this lead to the VEM work which did locate the conductor about where it occurs.

#### South Conductor:

The mineralized south conductor in zone 3 varies in thickness along its length, 10 ft. hole 5, perhaps 50 ft. in hole 3, 20 ft. hole 4, and 10 ft. in hole 6. Again, it is basically a contorted pyrrhotiferous tuff horizon containing several thinly bedded bands of intermixed mudstone and aphanitic pyrrhotite all intermixed with amphibolitic tuff and garnetiferous amphibolite. Thin cherty bands are also present. The horizon lies in rhyolite-tuff sandwich dipping steeply north. The tuffs are generally contorted, and core angles are so variable as to be largely impossible to keep track of.

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Hole 7 was drilled to test the hole 3 conductor at depth. It was drilled from the north so as to test the ground N of hole 3, and by continuation was expected to undercut the hole 3 conductor at around 450-500 ft. Instead, it cut an amphibolitic zone from 386 to 412 which contains only a few blebs of pyrrhotite scattered here and there. Monotonous, massive, rhyolite lies below 412. There is no sign of any tuffaceous material whatsoever as found in hole 3 above.

A reasonable correlation between holes 3 and 7 can be made for the weakly mineralized amphibolitic section, but whatever happened to the main mineralized tuff horizon is unknown, it simply vanishes somewhere in the 150 ft. between holes 3 and 7. Whether the horizon is a lens of restricted depth, or has a plunge, or whether there is an intervening fold or fault is unknown.

#### AREA ONE

This area lies about a half mile NW of area three along the Camp 20 road. It is only slightly wooded compared to area 3, but there is such a tangle of alder and  $r_{x}^{\Delta}$  pberry underbrush, plus logging debris, that travel very far off the access roads is very difficult. The reported mineral occurrence number 5 of Lumbers was never found, though one 500 ft. from the road around 1400 NW was found.

Most of the outcrops are confined to a low ridge north of the camp 20 road in which isolated outcrops occur here and there. These continue further SE all along the road, these were examined but not mapped because

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no lines were cut. Most outcrops are contorted tuff containing amphibolite stringers, most of which exhibit a few rusty spots or seams. There are three conductive horizons, 700-2400 ft. long, plus two E. M. responses

Hole 8 cut a 45 ft. thick zone of contorted hornblendic gneiss containing rare, disseminated blebs of pyrrhotite. None of the usual banded pyrrhotiferous mudstone was seen.

Hole 9 intersected similar material, but no sulfides of any description were observed, so that presumably the sulfides responsible for the E.M. response probably do not extend to the depth of the hole. This band of gneiss is likely the same band encountered in hole 8.

The southwestern anomaly had previously been drilled by somebody, this, combined with the lack of mineralization in holes 8 and 9, lead to the release of the drill. However, to insure that no stone had been left overturned, the S.W. anomaly was drilled later by holes 13 and 14.

Hole 13A was lost in overburden just before reaching bedrock. Holes 13B and 14 intersected the usual pyrrhotiferous mudstone in tuffs, associated with andesitic volcanics.

AREAS 4, 5, 6

These three E.M. responses were investigated by holes 10, 11 and 12. The outcrops in the area show similar signs of rare mineralization.

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Two old drill holes were found and there might be others.

Hole 10 cut a 5 ft. horizon of pyrrhotiferous tuff. The pyrrhotite content was quite low but it apparently was sufficient to give the E. M. response. This is actually a continuation of the southern anomaly from hole 3 so that the pyrrhotiferous horizon is some 4,000 ft. long.

Hole 11 disclosed a 30 ft. thick amphibolite containing localized pyrrhotiferous concentrations in blebs, plus a few pyrrhotiferous fractures, indicating post fracture deposition.

Hole 12 disclosed a 30 ft. tuff which was unusual in that no pyrrhotite was seen, only coarse grained pyrite occurring as blebs and isolated crystals, sometimes in chloritized fractures.

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### CONCLUSIONS

While the presence of several, strong, unexposed, electromagnetically anomalous zones prompted drill testing, the geologic indications of probably uneconomic mineralization as found in nearby outcrops proved to be essentially correct.

For the most part, the conductor is caused by a particular horizon, or horizons, lying in a tuffaceous zone in a sequence of intermediate to acidic flows. The pyrrhotiferous tuff is composed of innumerable thin layers of fine grained, variously coloured layers giving every indication of having an aqueous origin. The muds appear to have been accompanied by iron and sulphur, which upon diagenesis and metamorphism converted to the very fine grained pyrrhotite. This particular horizon no where outcrops to our knowledge.

It does grade into pyrrhotiferous amphibole however, and several outcrops of this material were found, though only one or two of these outcrops were directly associated with the conductors.

After the returns of the early holes were in, no samples were sent for assay in that no mineralization was encountered significantly different than that earlier found. The remaining holes were drilled in accordance with management policy to ensure that nothing had been missed by a premature pull out.

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The writer concludes that the pyrrhotiferous mudstones represent small scale syngenitic iron-sulphur deposits of sedimentary origin in a volcanic environment, and that the few signs of epigenitic mineralization present originated during the period of metamorphism.

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David M. Knowles, David My Knowl

Chief Geologist, CANADIAN JAVELIN LIMITED.

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## JOE LAKE

On August 25, 1965, the writer, T. Fitzgerald and P. Hegler went over to the Joe Lake property. The trenches reported in Lumbers report were found. There are actually about 6 of them totaling several hundred feet. They are very old, excavated in the overburden and obviously were dug in an effort to chase cross cutting quartz veins. There is a little pyrite in the milky quartz.

There is an old log cabin there and it would appear that whoever dug the trenches was searching for gold. One trench is in rock for about 30 feet, but there are no signs of sulfides in it.

The E.M. gear was used in the vicinity of the showing, but there was absolutely no response to either horizontal or vertical loop tests.

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#### APPENDIX

1) · Personnel:

Wyatt Hegler, Engineer Peter Hegler, E.M. helper Terry Fitzgerald, E.M. operator William Blakeman, Geologist David Knowles, Geologist Obadiah Trapper, Albert Oguish, Fred Mowat, Ben McKenzie, Jim McKenzie, Line Cutters

2) T.S.L., Semi Quantitatine Spectrographic Analysis

3) Maps, Areas 1, 3, 4 - 6, Claims

4) E.M. Profiles, on Geologic Map for Areas 4, 5 and 6

5) D. D. H. Logs

6) D. D. H. Sections

7) Man Day Distribution

8) Aerial Survey, Report, Map, Tape Clips, Aero Magnetics

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GEOCHEMICAL SURVEY - PROCEDURE RECORD

APPLICANT CANADIAN AUELIN LTD AREA ADAIR- PRBOTSFORD TOWNSHIPS - ABITIBI EAST CLAIM NOS.

SAMPLING DATA	ANALYSIS DATA
Sampling dates 4.4.4.1.13.1965 To	Analysis dates J.44.7. 21, .19.4.5. To
Sampler(s)	Analyst (s) TECHNICAL SERVICE
••••••	LABORATORIES
	METHODS
Sampling method Rock. C.h. P.S.	Values in % PPM Cu Pb Zn Ag Ni.Co.
Sample depth	As.Others
Average Sample Weight	Field Analysis (tests)
Horizon Sampled	
Horizon Development	Field lab Analysis (tests)
Terrain	
Sample Preparation	
	Commercial Laboratory (tests)
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2 SAMPLES TAKEN	
COMMENTS	signed Pavie M Browles
	Date

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	Sample A    3	Sample S B H 32	Sample		Sample	Sample B	Sample
Antimony	ND	ND		Lithium (Li <sub>2</sub> O)	ND	ND	
Arsonic	ND	110		Manganese	TL(.2%)	TL(.45)	
Barium	T(_015)	T(_02%)	•	Morcury	- KD	ND	
-Ilium (BoO)	ND	MD -		Molybdenum	ND	-ND	
outh	• 11D	IFD		Nickel	FT	FT	
Cadmium	_ND	1D		Silver	ND	ND	
Corium (CoO <sub>2</sub> )	ND	<u>ND</u>		Tantalum (Ta <sub>2</sub> O <sub>5</sub> )	ND	ND CON	<u>N</u>
Chromium	T(_01%)	T(_01%)		Thorium (ThO <sub>2</sub> )	ND	ND	
Cobalt	FT	FU	1	Tin	J.D	ND	
Columbium (Cb <sub>2</sub> O <sub>5</sub> )				Titanlum (TiO <sub>2</sub> )	LM(2%)	_14(25)	
Coppor	T(_01%)	_T(.01%)		Tungsten	ND	A CONTRACTOR OF	
Gallium	FT	_FT		Uranium (U <sub>3</sub> O <sub>8</sub> )	ND	ND	
Gormanium (GeO <sub>2</sub> )	ND	MD		Vanadium	T(.02%)	T(.03%)	
Indium		_ND		Zinc	ND	ND	
Iron	LN(3%)	<u>M(57)</u>		Zirconium (ZrO <sub>2</sub> )	T(_01%)	T(_02%)	
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						with the follow	ving results:	
Sample	Gold	per ton	Silver	Copper	Zinc	Nickel	Lead	
No.	Ozs. Va	lue @ \$35.0		%	%	6	<b>%</b>	
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5262 5263			Nil	None	None	NOTA		
5264 5265			Nil Nil	None 0.01	None None	None	None	
5266 5267	Nil	-	Nil Nil	None None	None None			
5268 5269	Nil (		Nil Nil	0.02	None None	None		
5270 5271			Nil Nil	None None	None None	None		
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lance with long-established North American custom, unless it is specifically stated otherwise gold and silver values these shorts have not been adjusted to compensate for losses and gains inherent in the firs assay process.

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5274 5275 5276 5277 5278 5279 5280 5581 5582 5583 5583 5583 5584 5585 5586 5587 5588 5587 5588 5589 5590 5591 5592 5592 5593	Nil       -         Nil       - <tr td=""> <tr td=""></tr></tr>	0.02 Nil Trace Trace Nil 0.01 0.02 Trace 0.02 0.02 Nil Nil Nil Trace Trace Nil Nil Trace Trace	0.03 0.01 None 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.0	O.08 None None Trace Trace None Trace None None None None None None None None None None	None None None

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per: J.C. Sun - Same

WM. GERRIE, M.A. D. KERR-LAWSON, B.A., PH.D.	Actine Telephone 642-3244
	Swastika, Ont., August 19,196519 LABORATORIES LIMITED
	Certificate of Analysis No. 37658
We have assayed <u>Firs</u> Received <u>Aug.17,1965</u>	samples of split core and submitted by Canadian Javelin Limited.
	with the following results:
Sample Gold per ton No. Ozs. Value © \$35	Silver Copper Zinc Lead Nickel
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In accordance with long-established North American custom, unless it is specifically stated otherwise gold and silver values reported on these sheets have not been adjusted to compensate for losses and gains inherent in the fire assay process.

# AERIAL ELECTRO-MAGNETIC SURVEY

RESULTS

# Copies of Canadian Aerial Mineral Surveys Data

Tape Sections Showings:

(1) Anomalous Response

(2) Map showing location of flight lines, anomalous responses and claim holdings.

## JUBILEE IRON CORPORATION

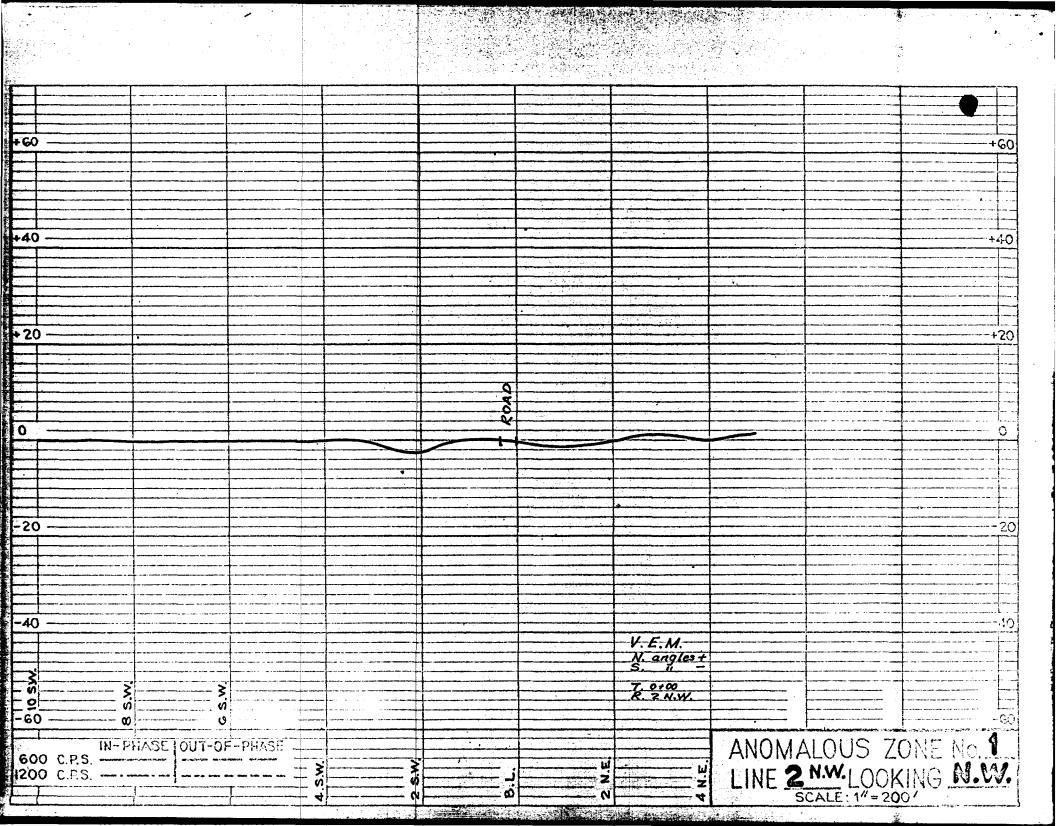
Canadian Javelin Limited

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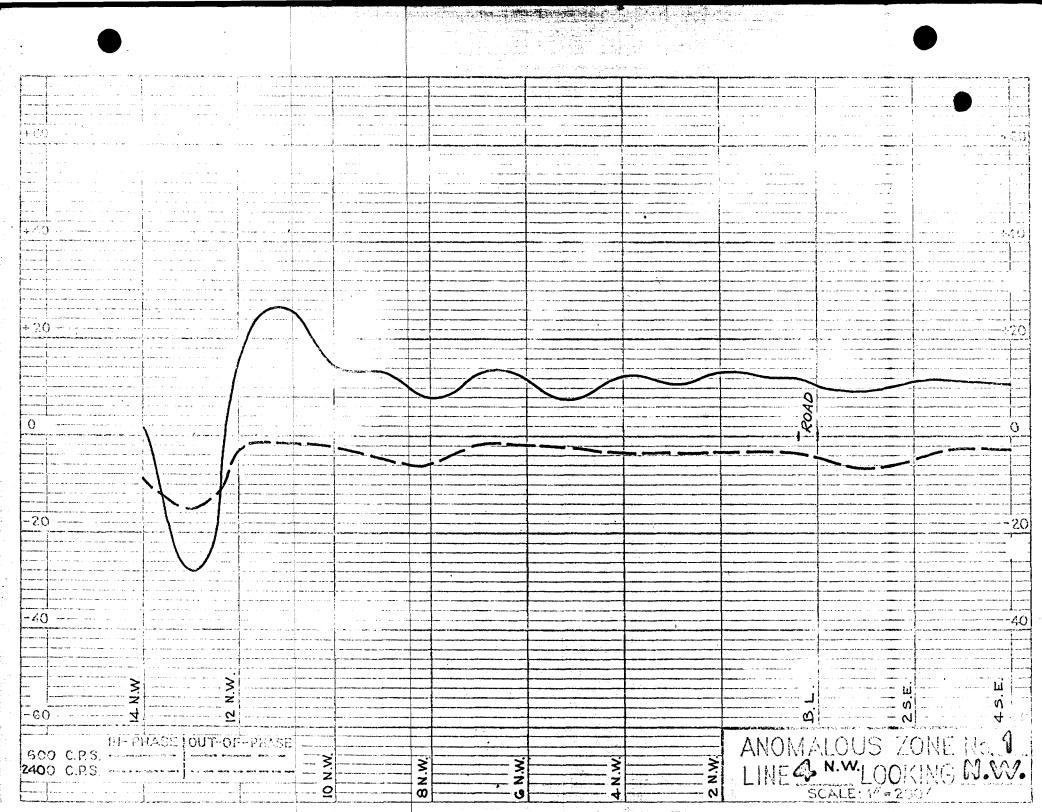
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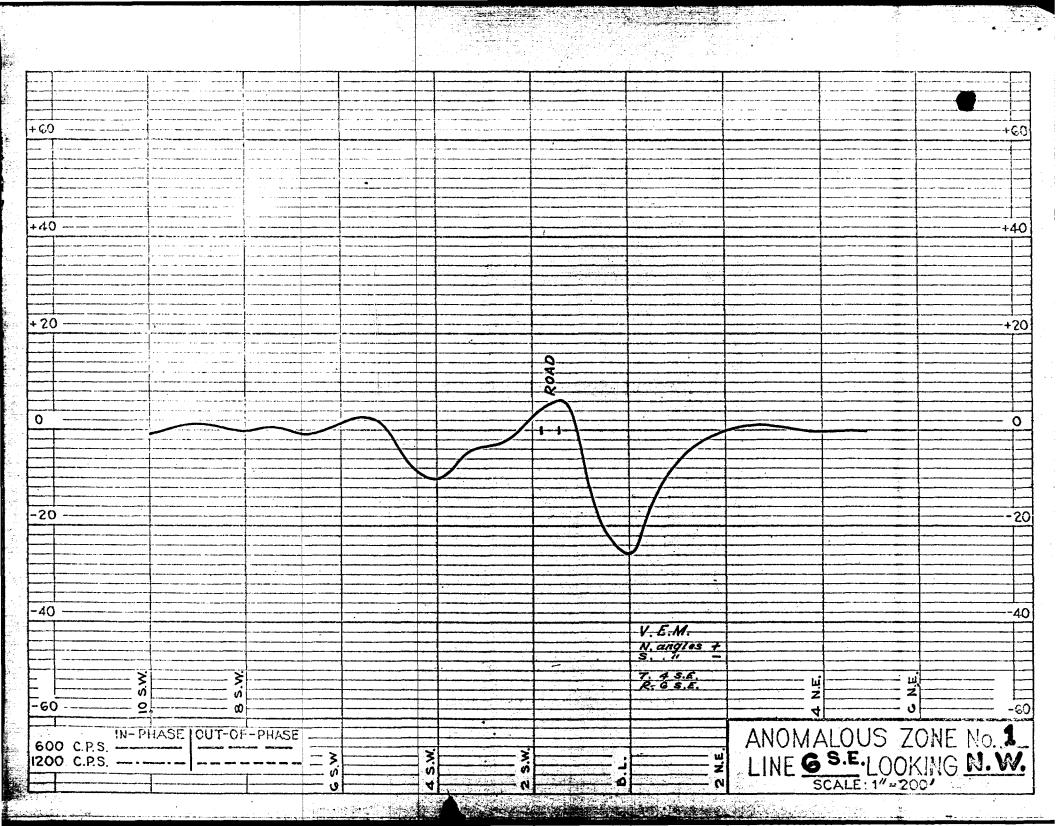
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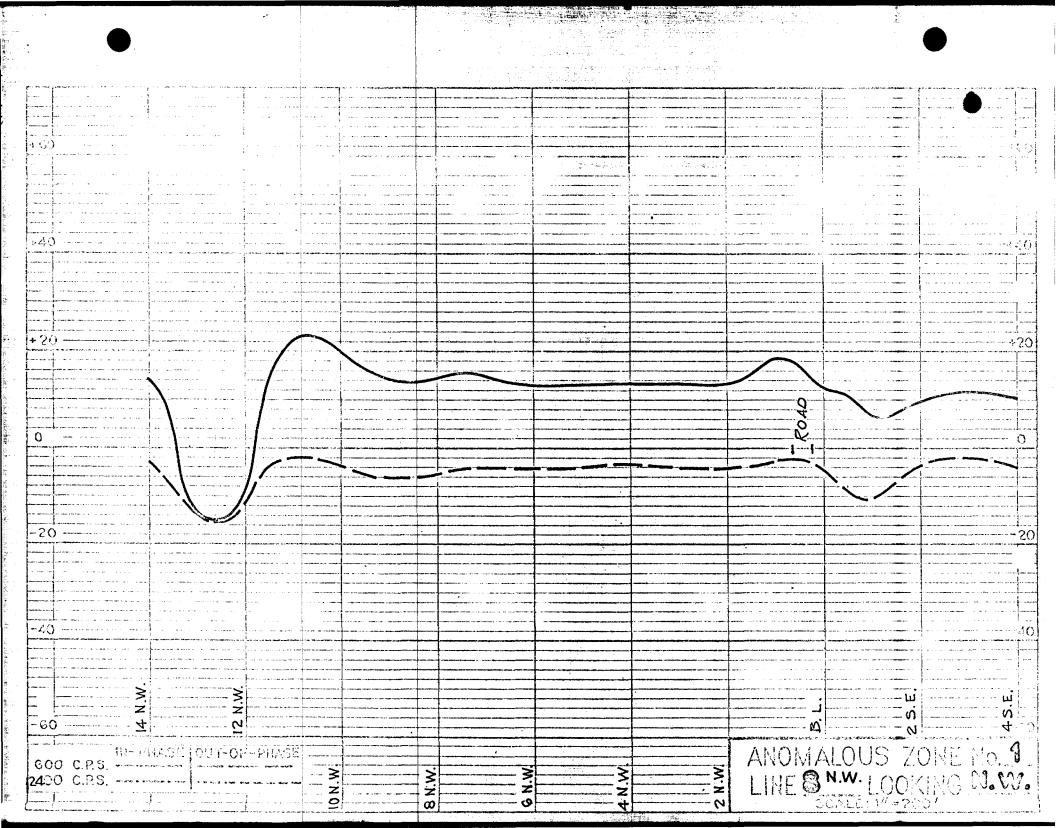
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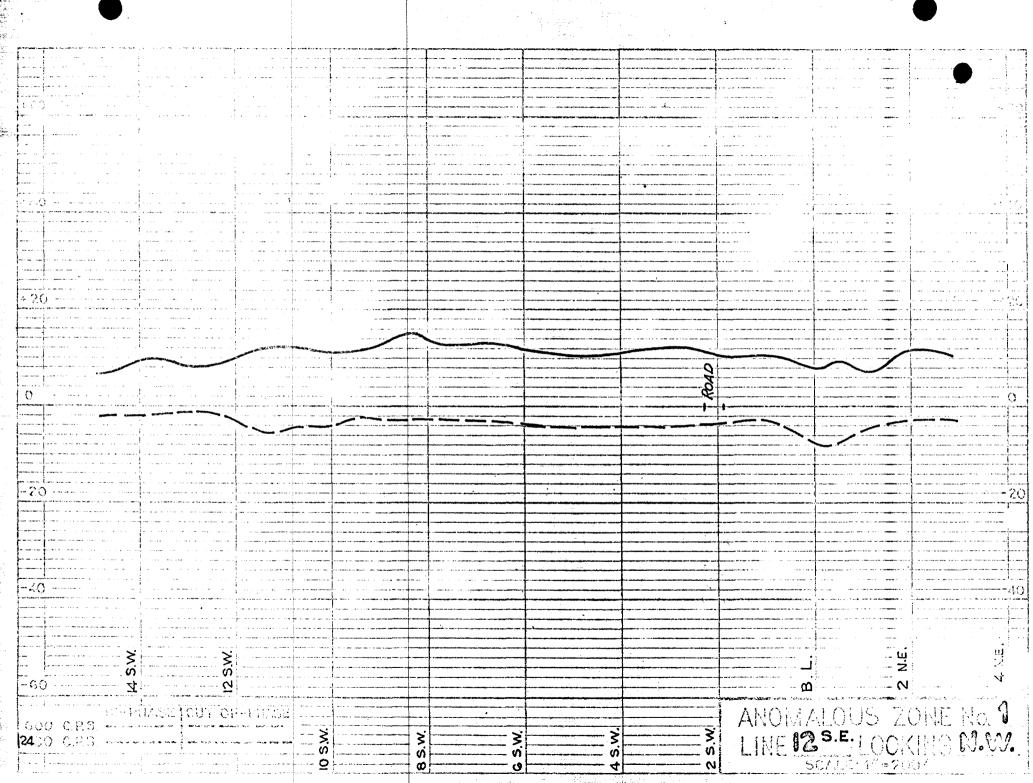
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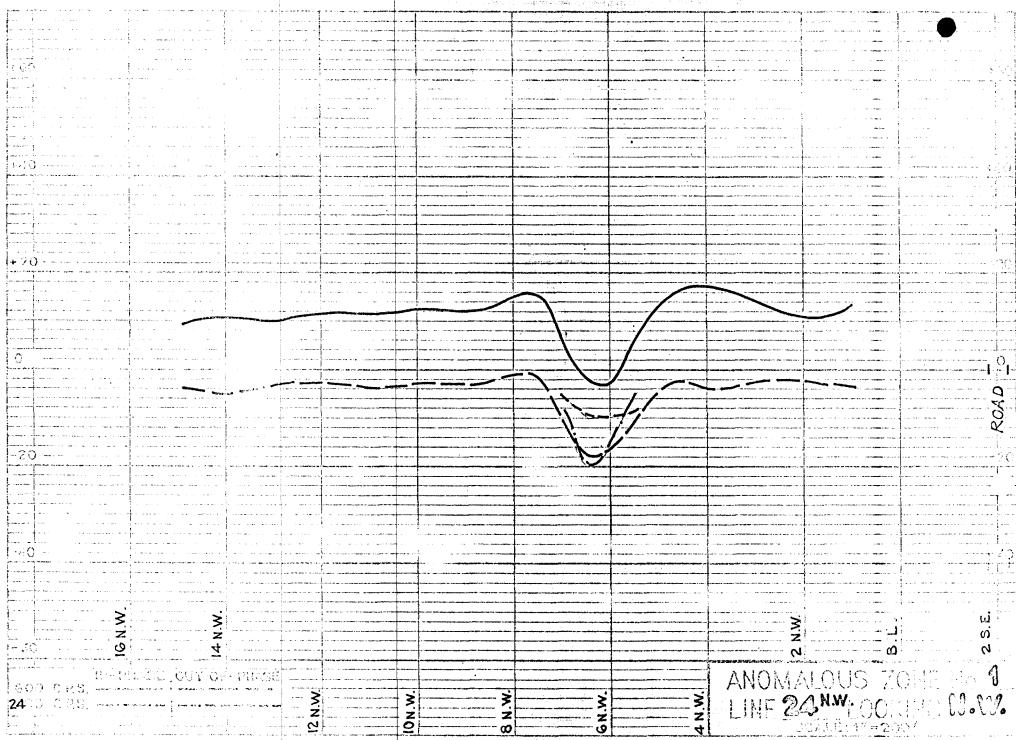
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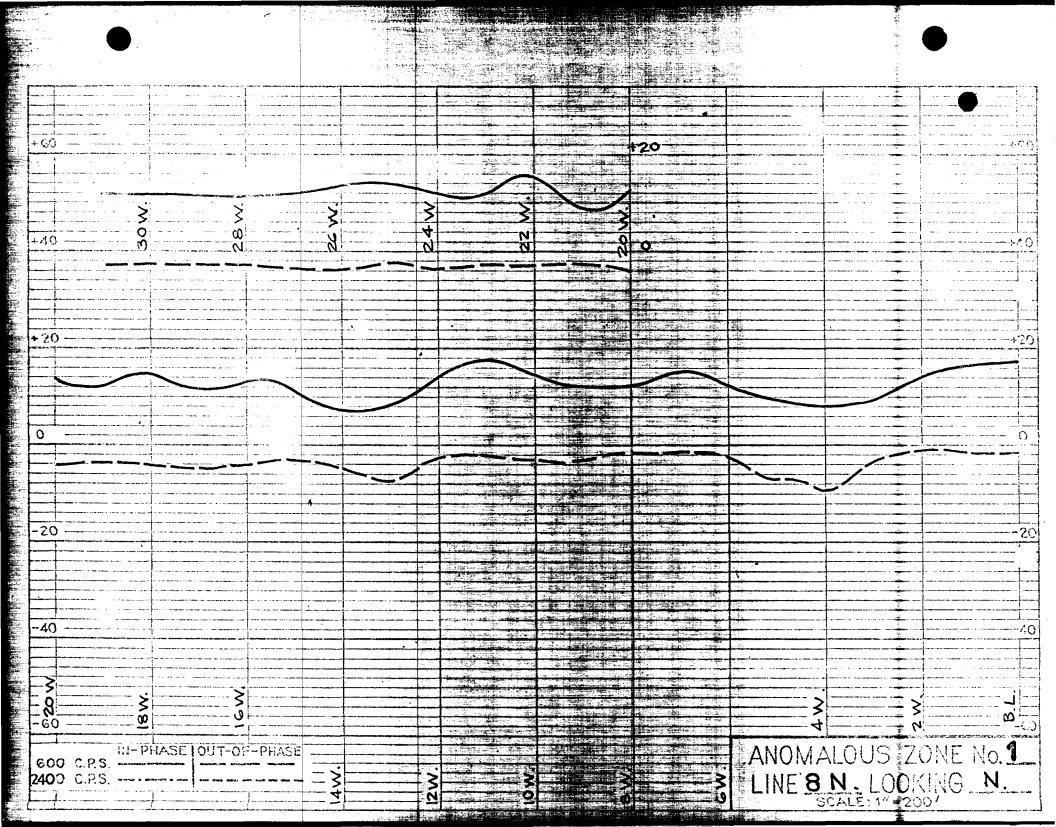
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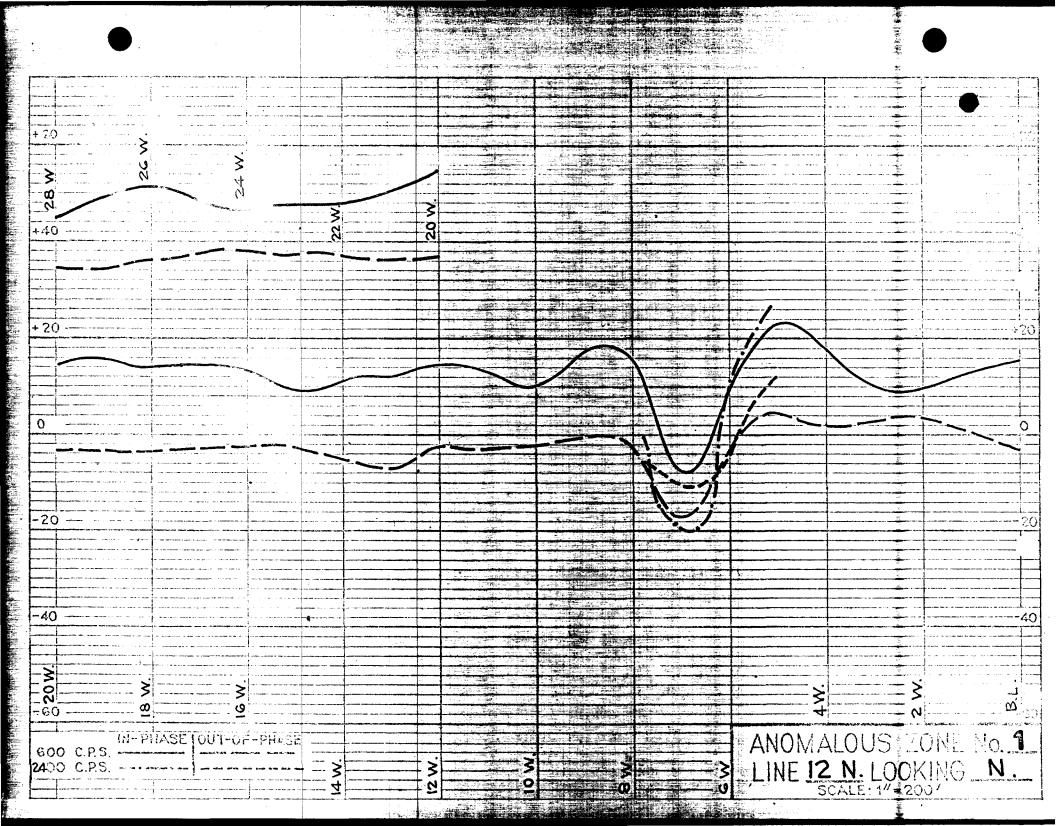
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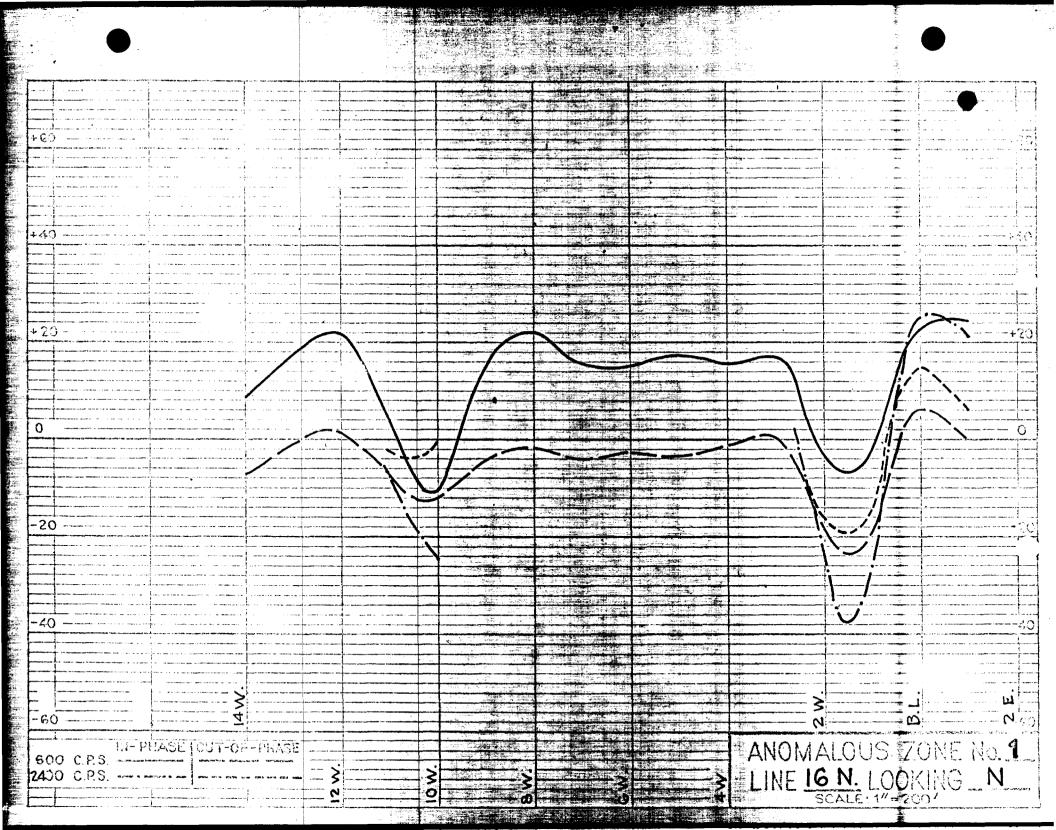
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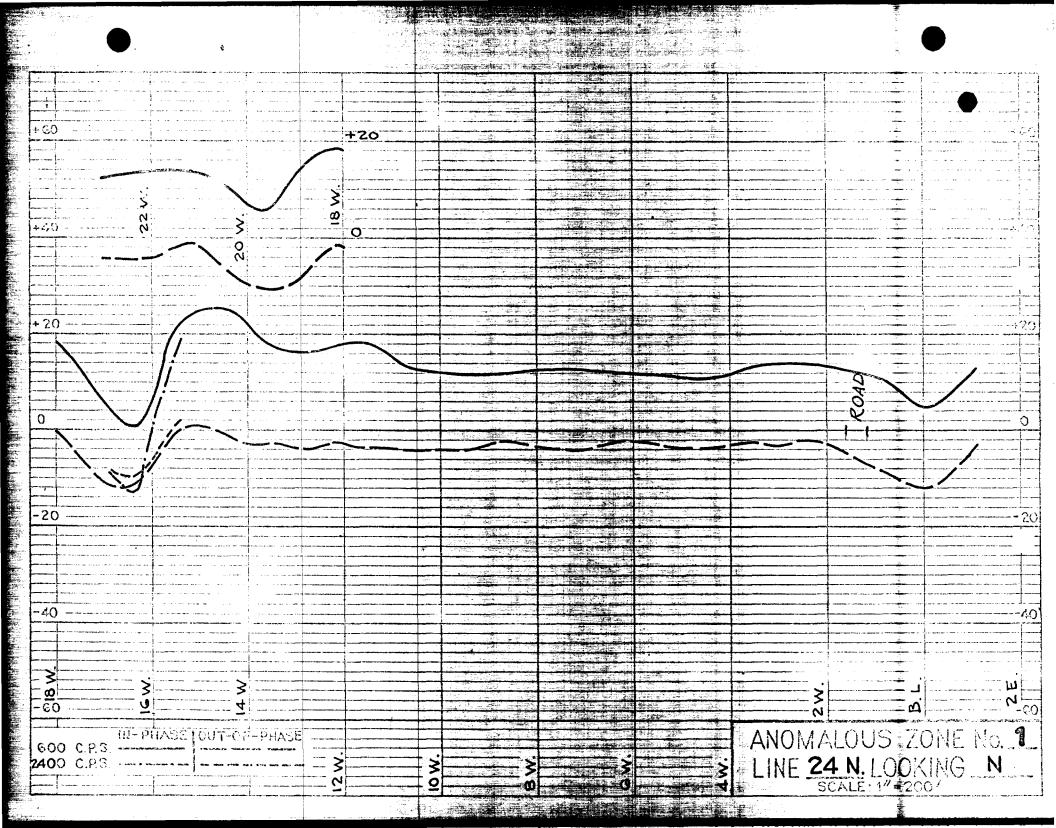


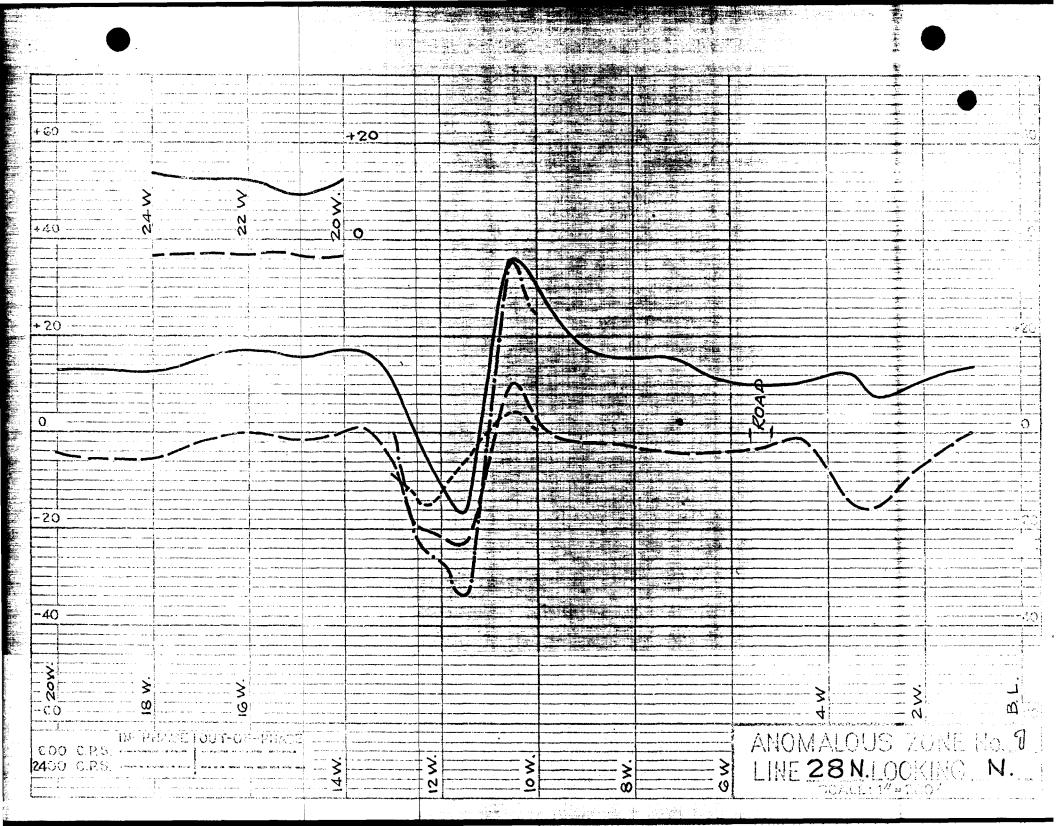
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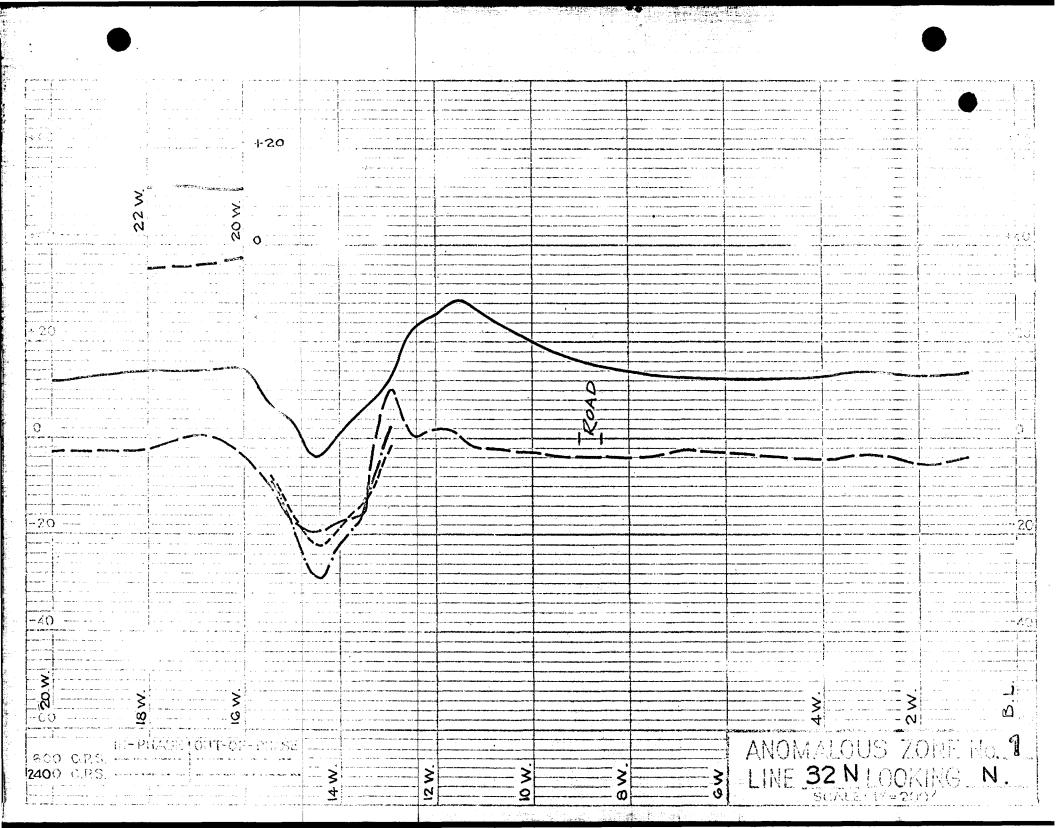
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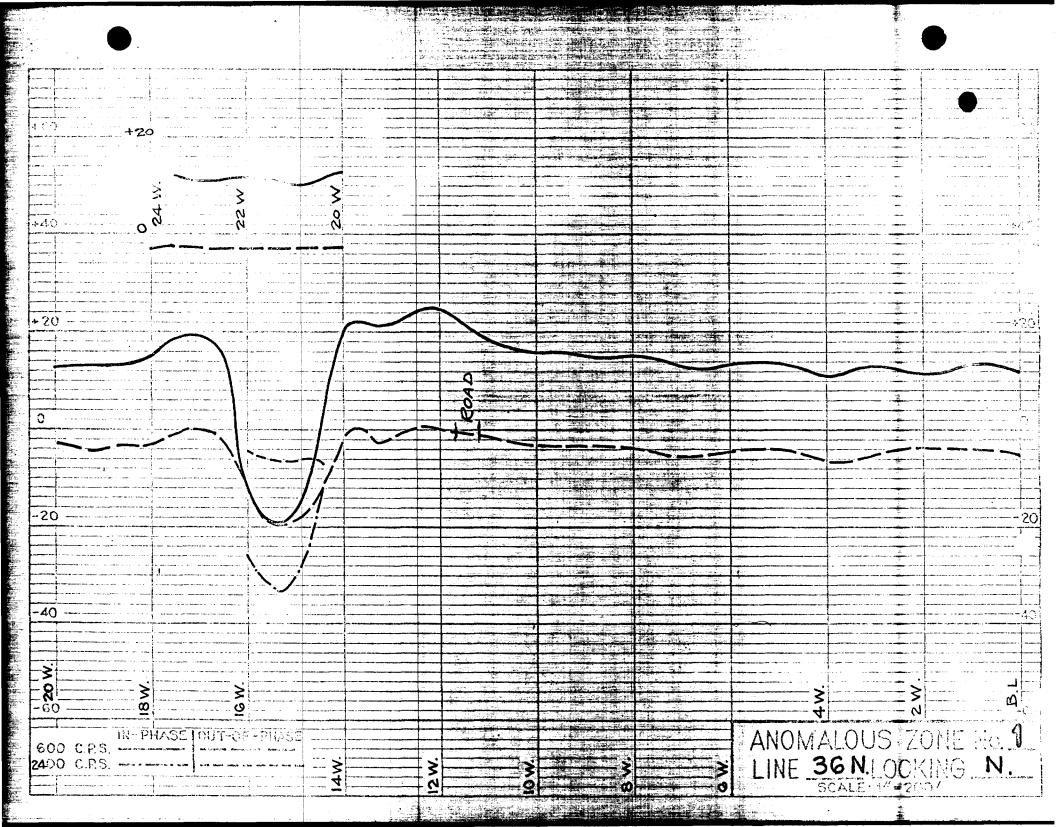
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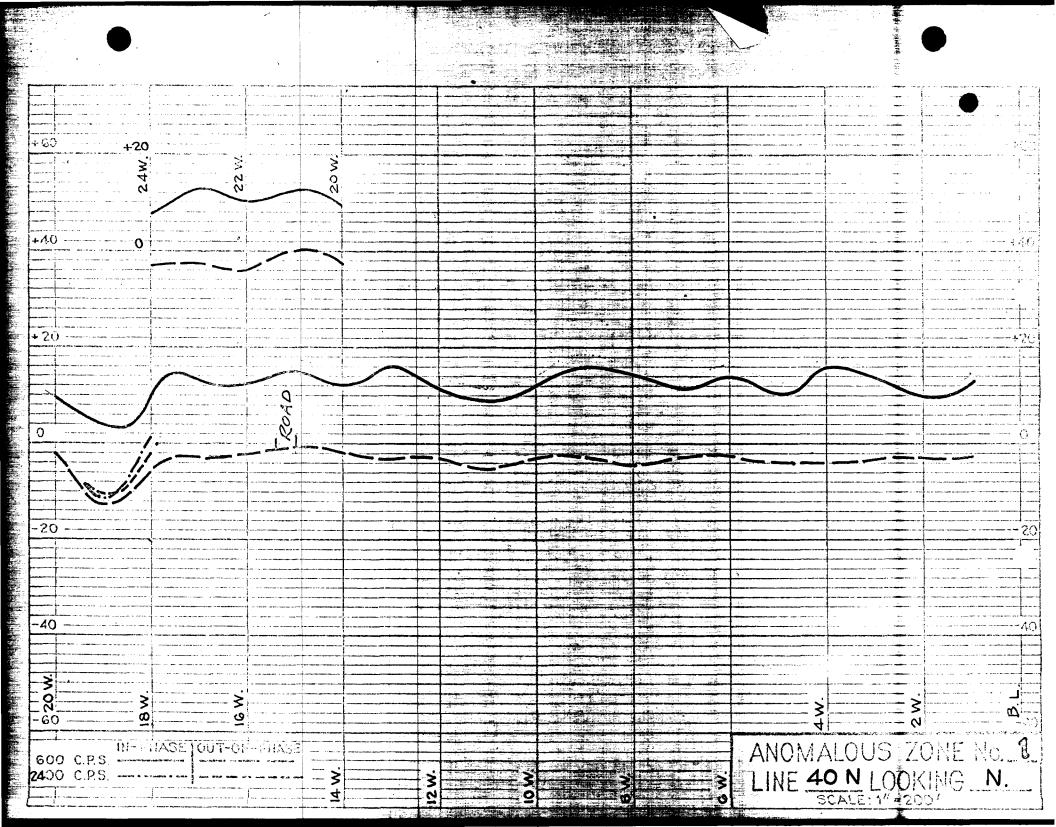
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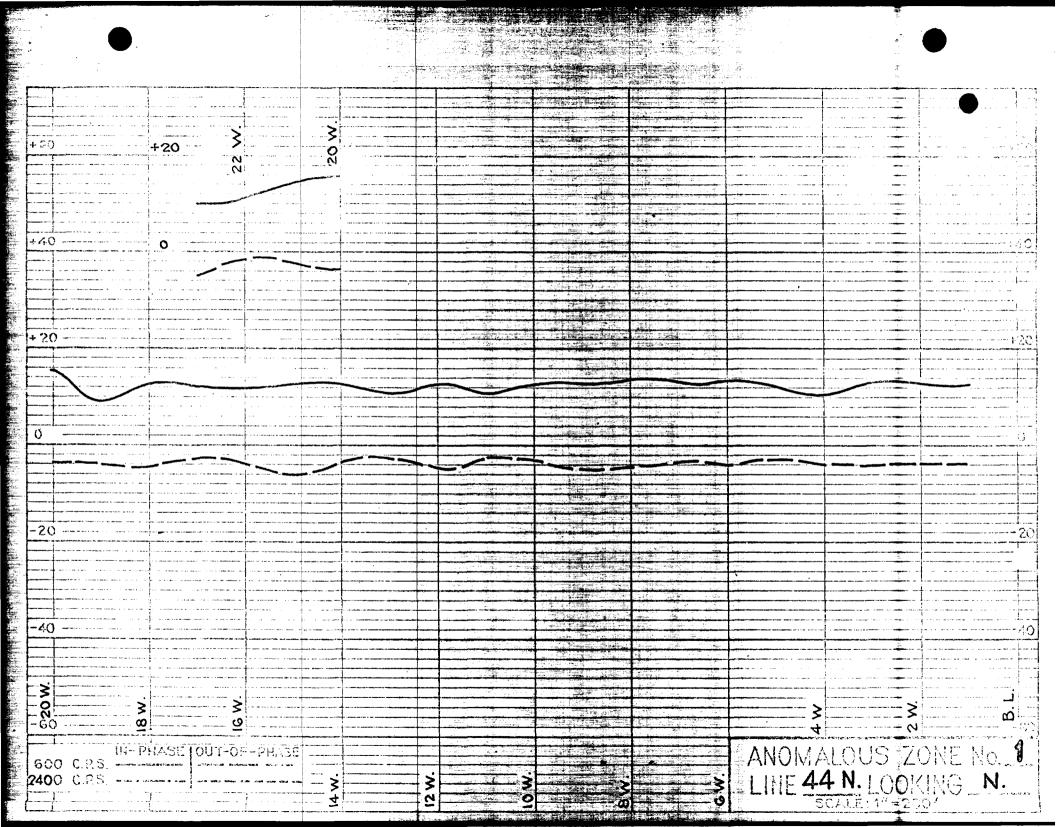


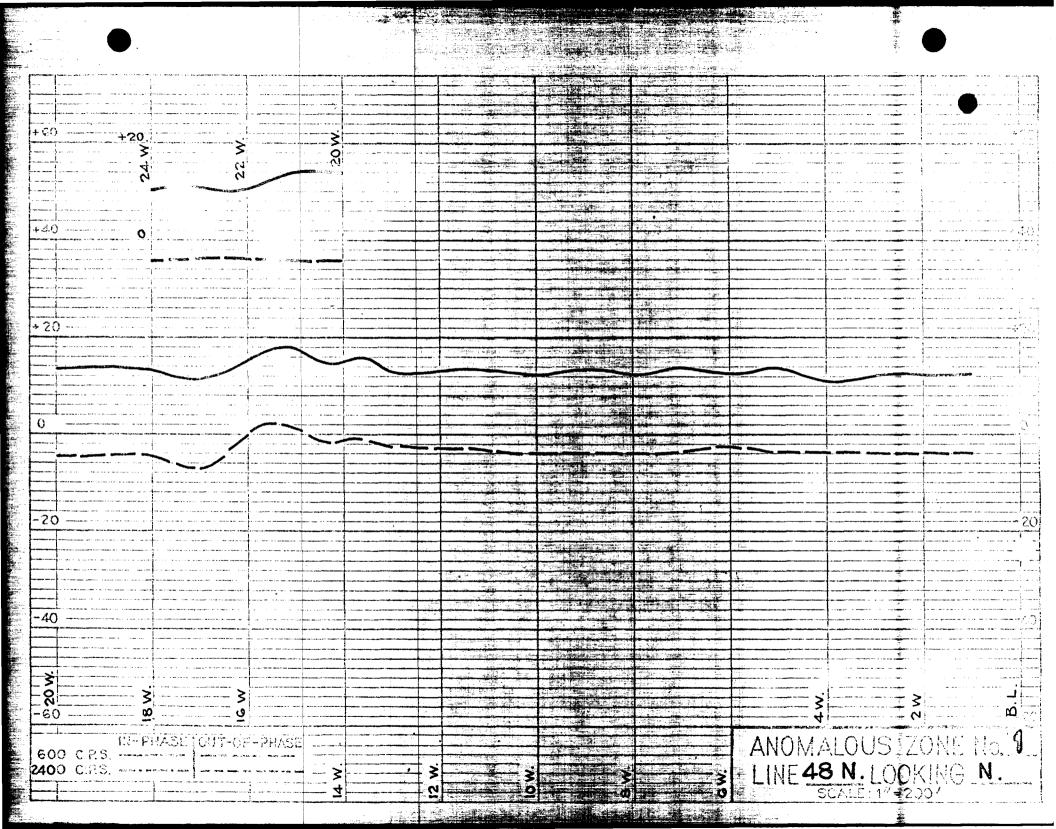


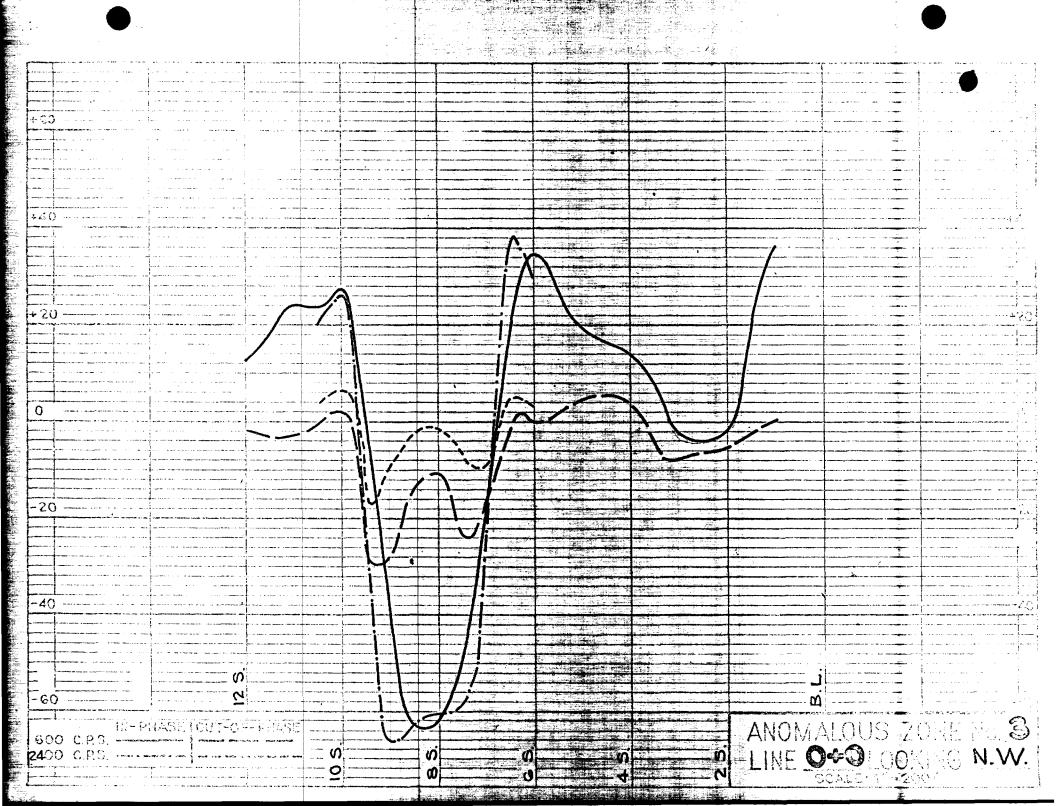


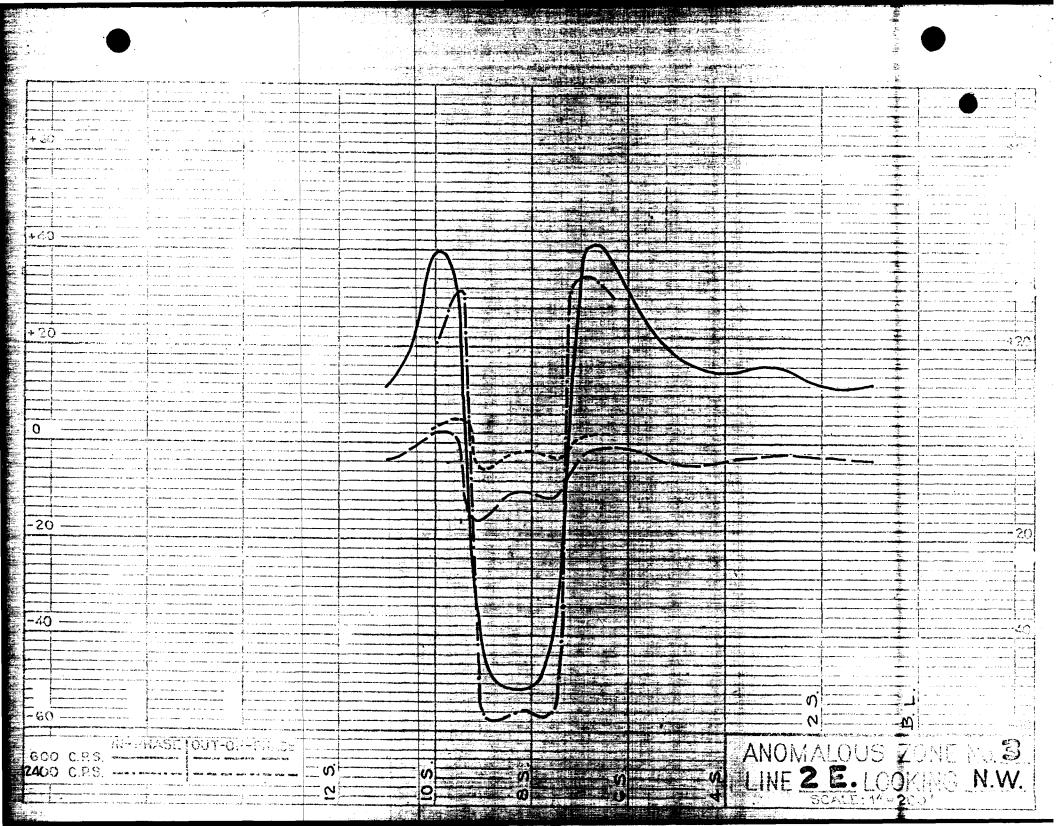


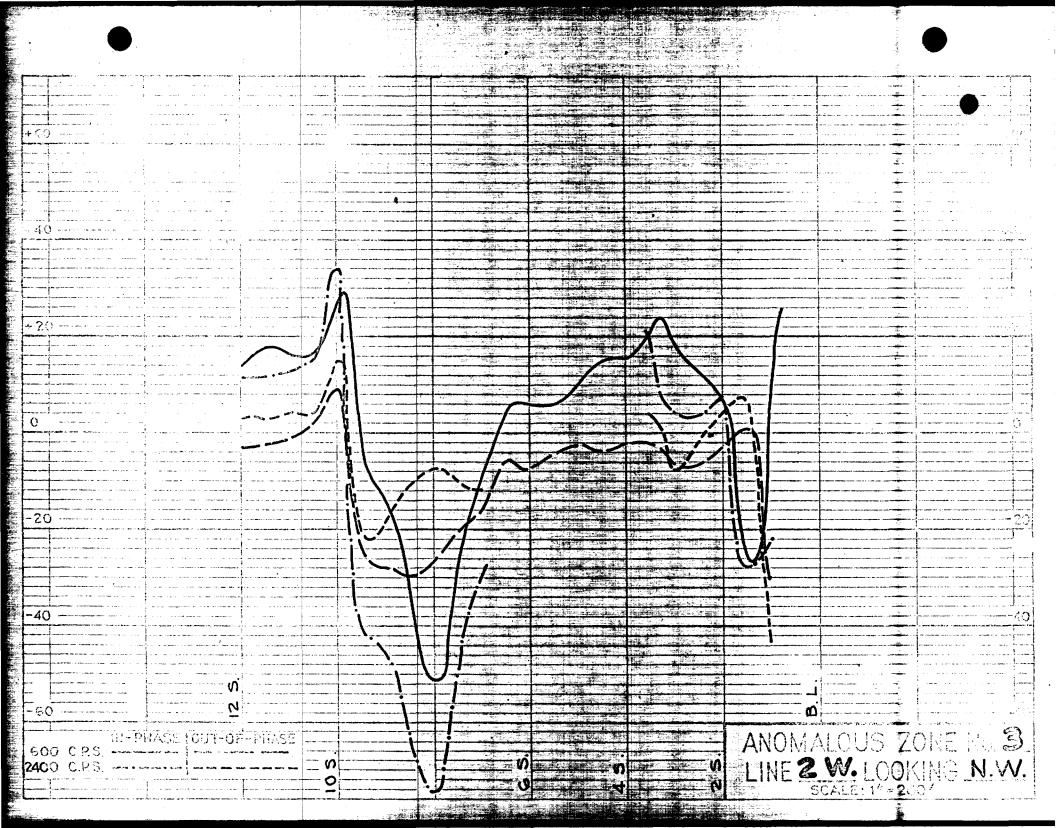






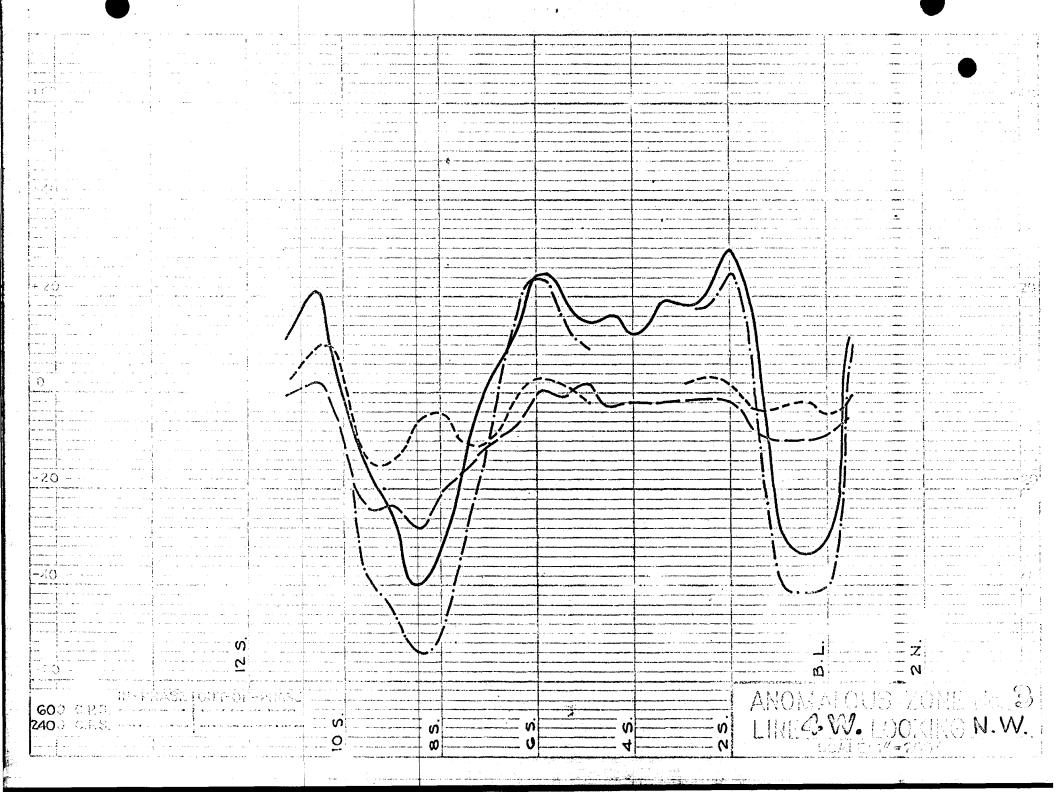






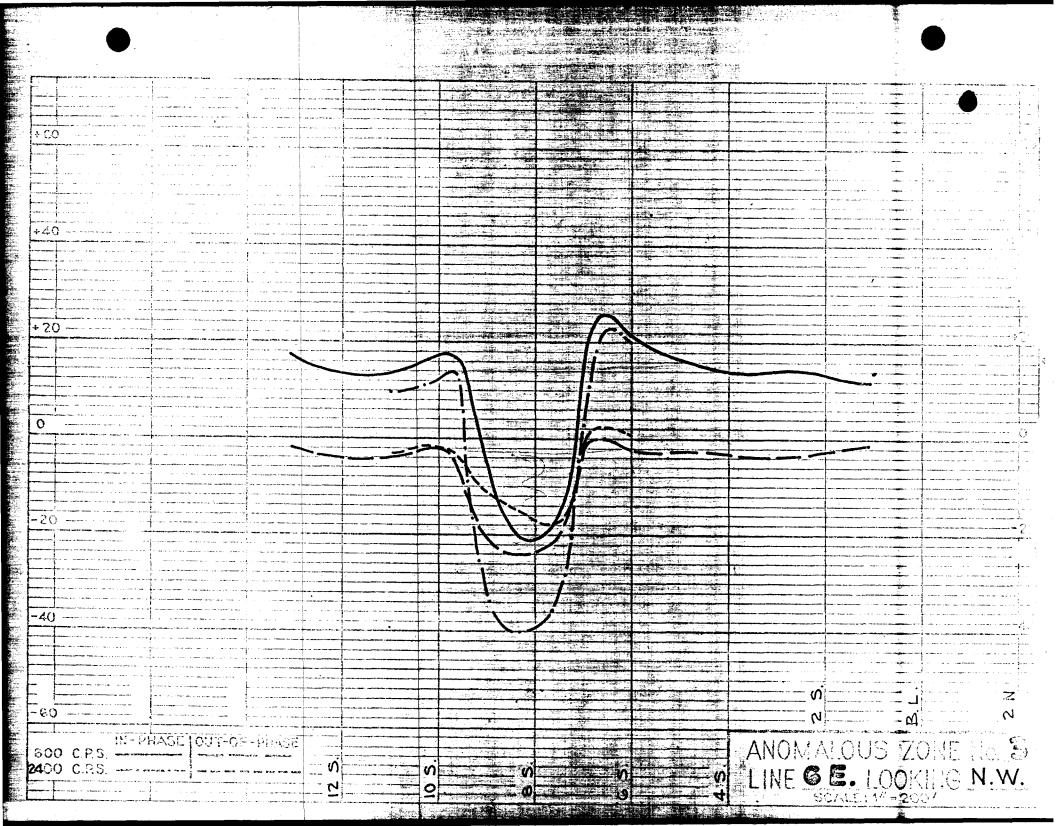


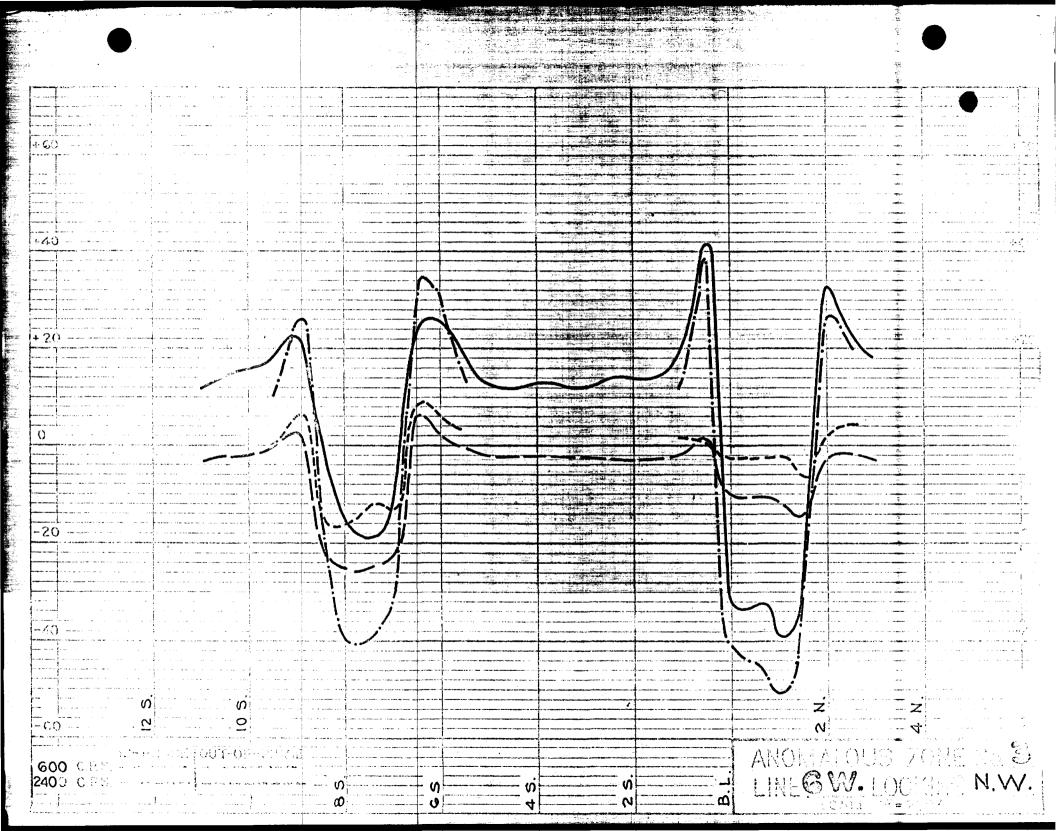
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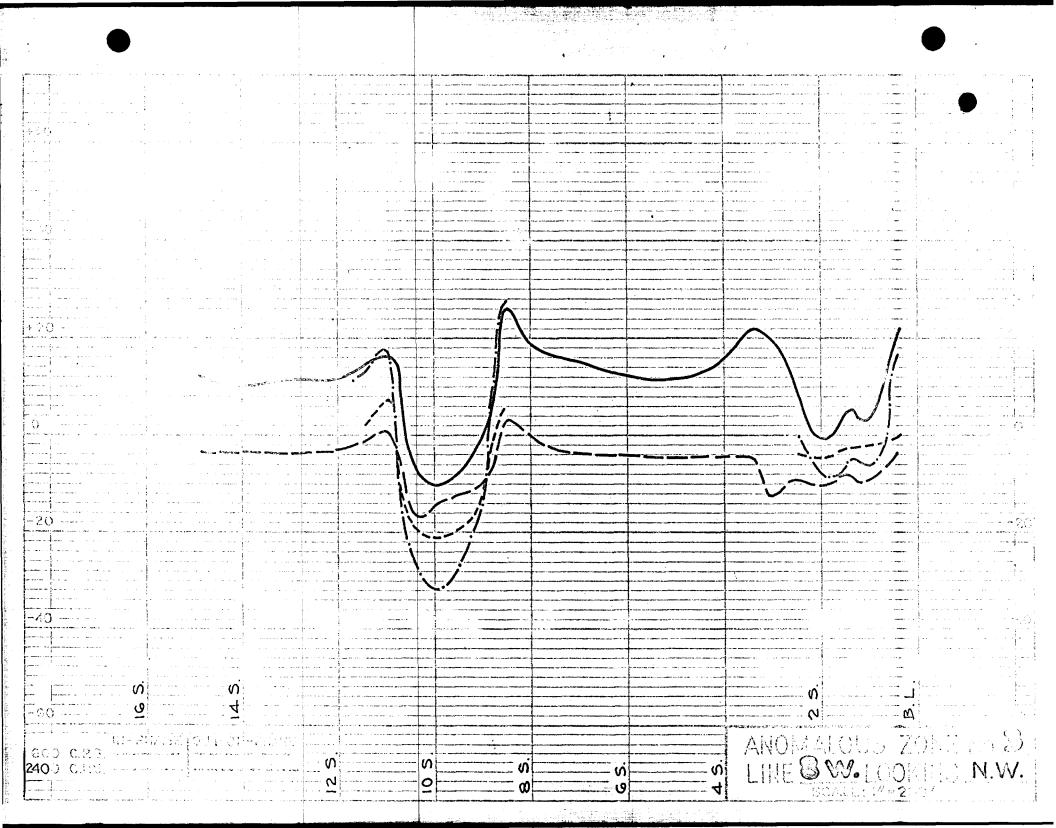


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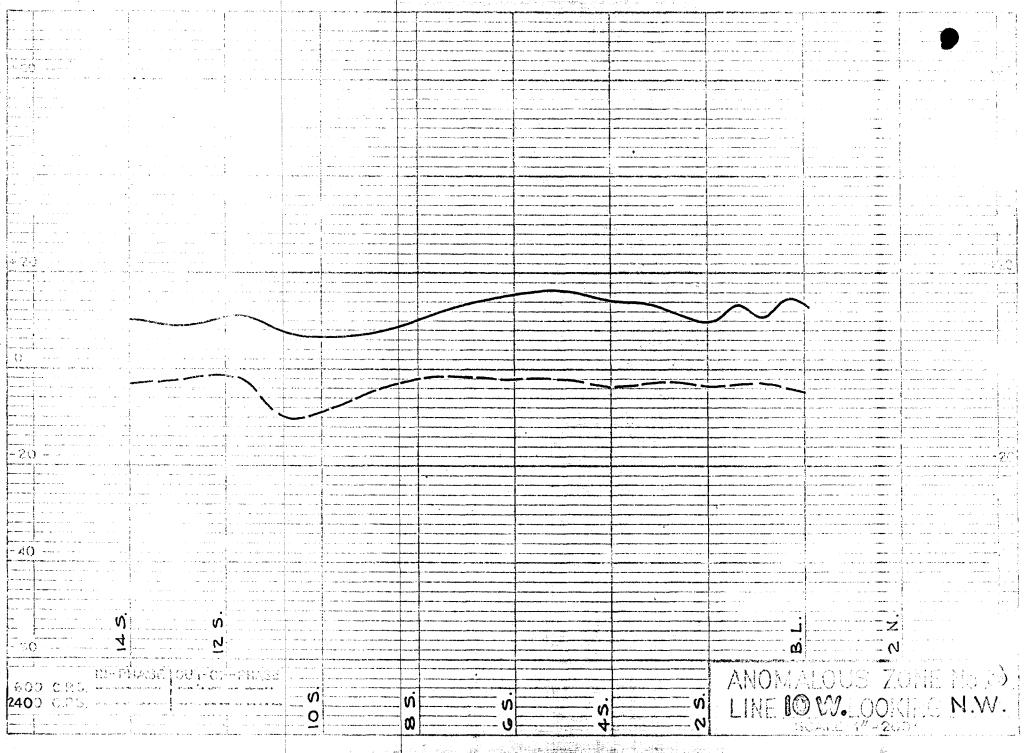






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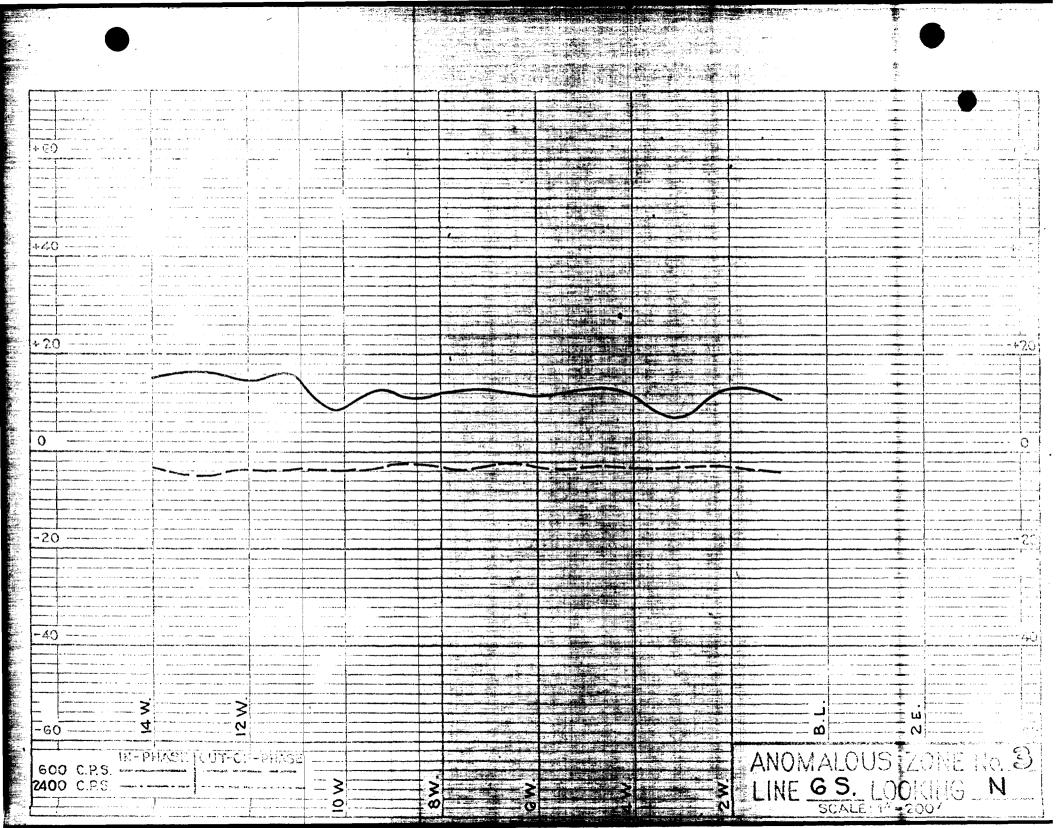




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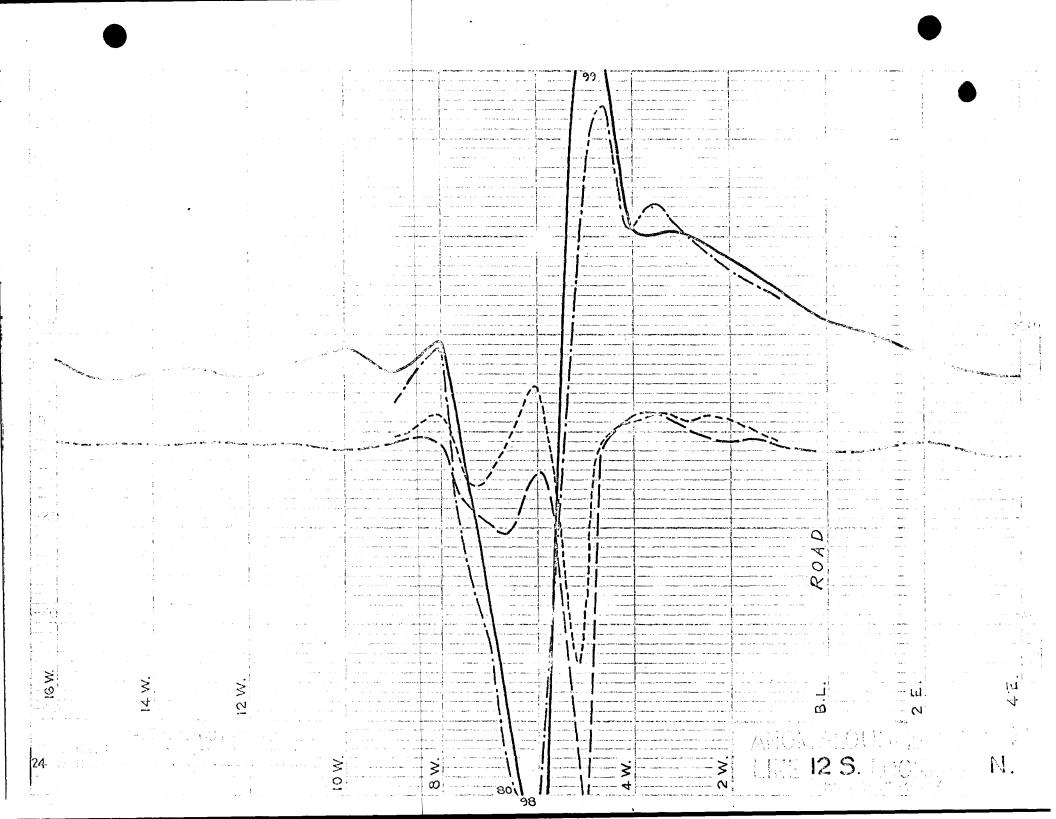
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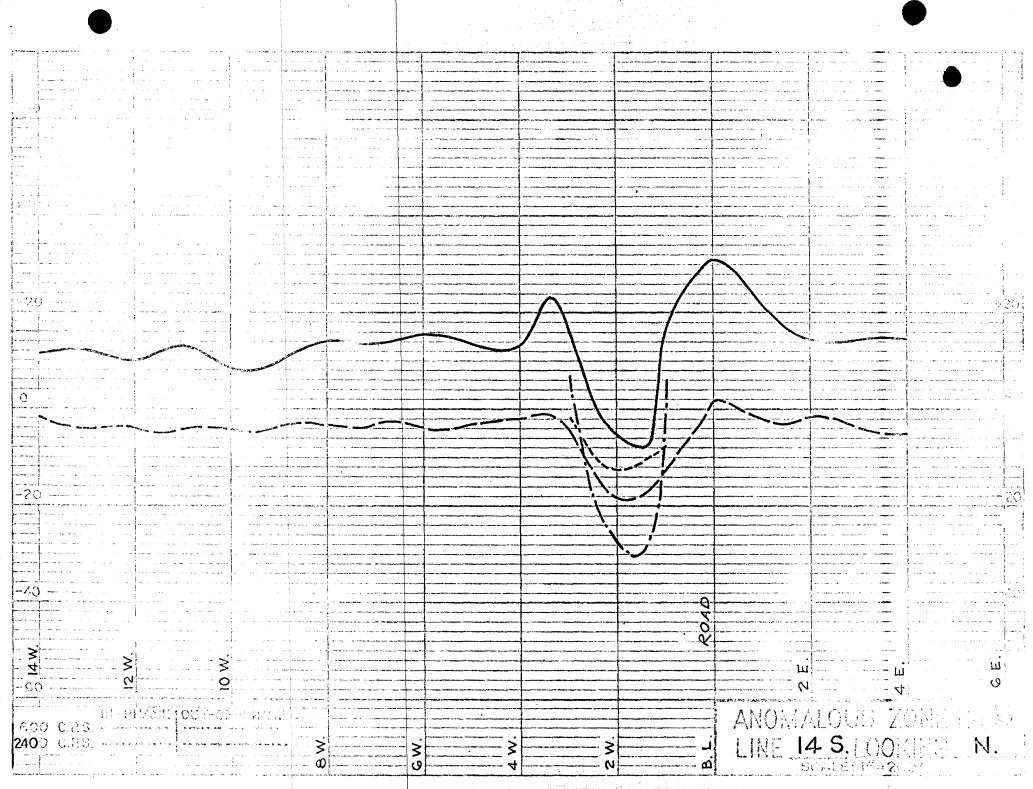


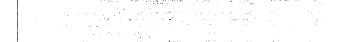


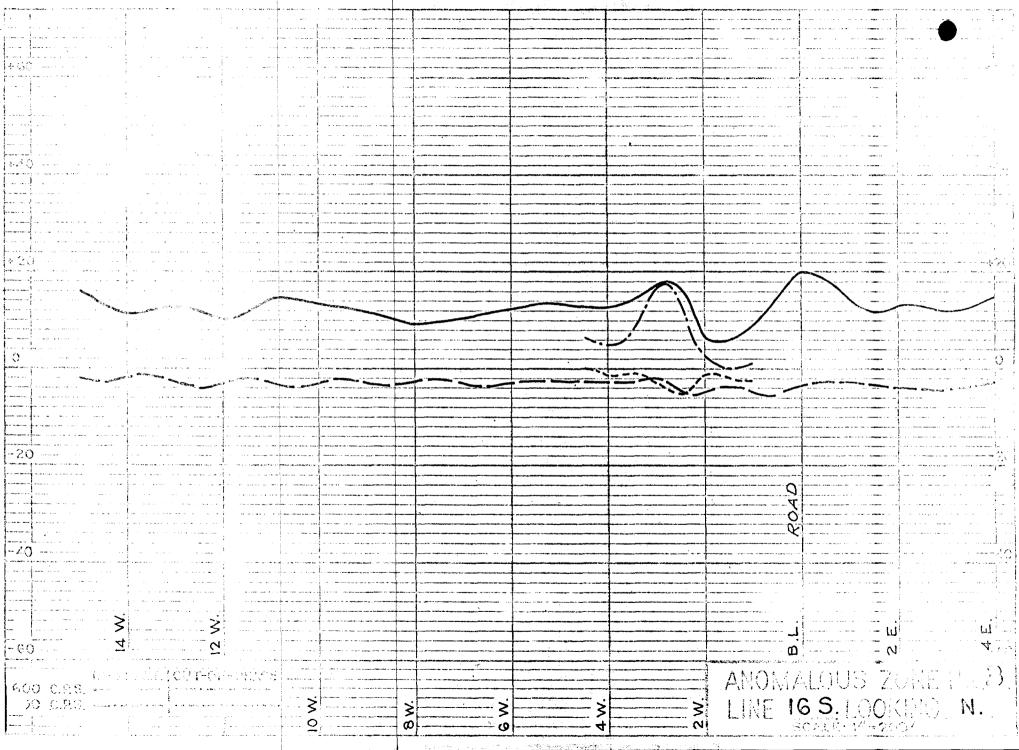
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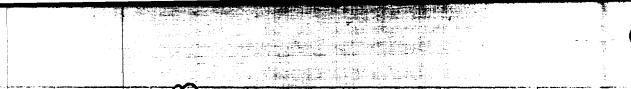


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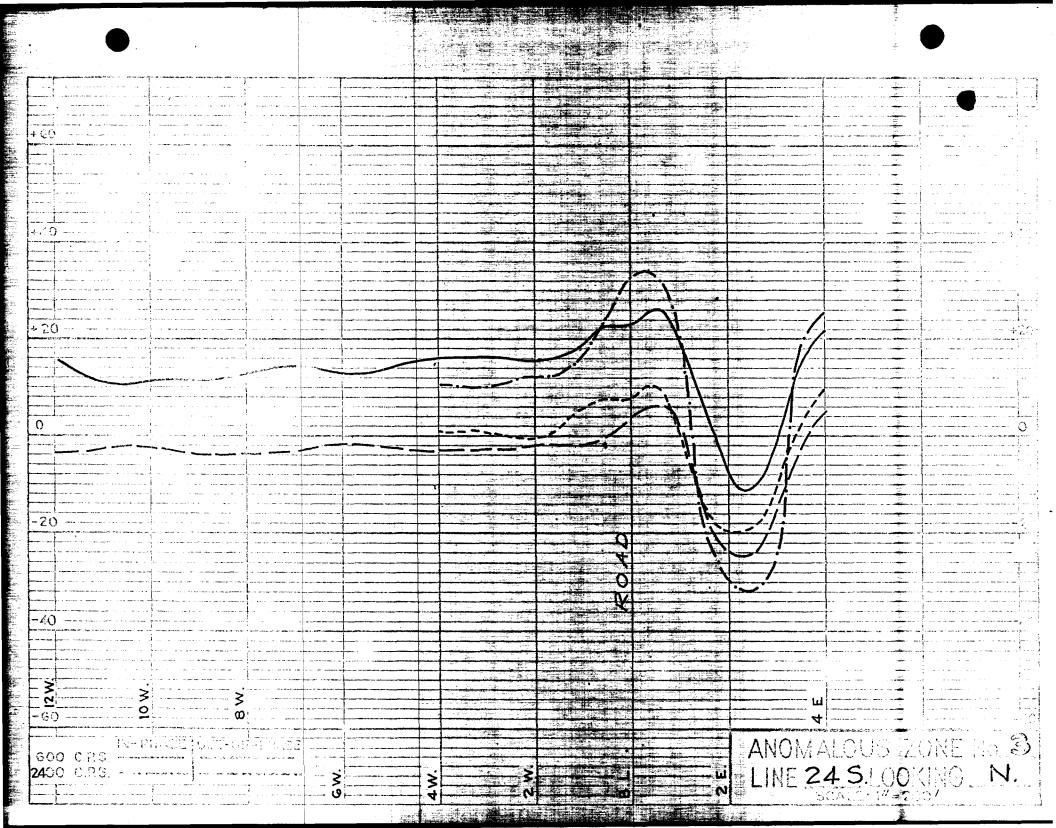
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### INTRODUCTION Ξ.

This report pertains to the compined airporne EM and magnetometer survey flown on behalf of Canadian Javelin Limited over a block of ground on the Ontario-Quebec border north of Lake Abitibi. Most of the block lies in Adair, Abbotsford and Hepburn Totrachips of the Province of Onterfic, with only a small portion entending over the provincial boundary into Quebec. The survey was flown May 5, 1965 by the Ganddian Aero Mineral Surveys Limited geophysically equipped Otter airdraft (registration CF-IGA) based at Lacting.

PHYSICAL SURVEY

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The flight lines were oriented east-west and were spaced at 1/6 mile intervals. The geophysical data acquired totalled 200 line miles. The mean terrain clearance of the aircraft during survey was opproximately 150 feet.

Canadian Acro Mineral Surveys Limited personnel associated with the project were as follows:

G. A. Centis		Project Manager
Dale Saith		Pilot
D. J. Sereria		Navigator
D. Graham		Operator
R. Sarsflold	-	Aircraft Ingineer
6. Granger	-	Data Compiler
A Constant and Anna Anna Anna Anna Anna Anna Anna Anna	• ·	Draftsman
2. Tallyhoe		Data Chief

CANADIAN AERO Mineral Surveys

Inc project was supervised by A.R. Rattew, P.Eng., author of this report.

The EM data are presented on a plan map at the scale of 1 inch equals & mile. An uncontrolled airphoto mosaic served as the base for this map.

Appendin I is a complete listing of all EM anomalies detected.

Appendix II describes the equipment, the records, the survey and map compilation procedures, and the data presentation system.

### II. <u>Groudst</u>

The majority of the survey area is covered by the Ontario Department of Mines map 2025 contained in Geological Report No. 14. The map is published at the scale of 1 inch equals } mile.

The survey block samples part of the belt of Adair metavolcanics, which is presumed to be the belt which contains the Normetal Mine, a few miles to the east. The indicated strike of these rocks ranges between east-west and northwest-southeast. In composition the volcanics range from acidic through basic and several different rock divisions are recognized within the volcanic assemblage.

To the south the Adair volcanics are flanked by an assemblage of metacodiments. To the north they are in contact with the Mistowak batholith, an acidic intrusive complex. Near the provincial

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boundary the volcande belt is split by another acidic intrusive, the Patton River pluton.

Soverci sulphide showings are reported in the area, all consisting of discominated and stringered pyrite and pyrrhotite with low values.

### III. <u>Gropinskal kusuks</u>

Seven conductors have been located, all in the western third of the survey area.

Conductors 1 through 6 are all interpreted as bedrock conductors, and all are considered prospects for massive sulphide minor lization. Of these conductors, all but number 5 have directly coincident magnetic anomales suggesting a pyrrhotite content. The ourongest IM anomalies are in zones 1 and 3, so this is where the largest concentrations of sulphides should be expected.

It is interesting that the strike of conductors 1 and 3 is about north-south which does not appear to be concordant with the northwest-southeast strike of the vplcanics in this vicinity. The strike of the chorter conductors 2, 4, 5, and 6 cannot be established.

All of these conductors, 1 through 5, occur in the vicinity of outeropping acidic volcanics. Tuffs are prevalent in these coldic velocies and it is possible that graphitic tuffs are responsible for some of the EM anomalies. However, if this were the case, we would emport the conductors to be concordant. Zone 1

contains two or more parallel conductors on some lines which could be interpreted as an indication of graphite. On the other hand, conductors 2, 3, and 6 occur very close to sulphide showings. Conductors 1 through 6 all merit careful ground examination.

Note that in zone 1 the correlation of anomalies from Line 6 to line 7 is uncertain. While anomaly 7A seems to "line up" well with the anomalis to the north, the character of anomaly 7B is very similar to that of 6E and this correlation is tempting.

Note also that the northernmost anomaly in zone 3 is a weak questionable feature, as is the northern anomaly in zone 4.

Conductor 7 is indicated by weak out-of-phase enomalies on three lines. It is interpreted as a probable surface conductor, although it is sufficiently narrow that the source could be a weak conductor within the bedrock. Tuffaceous rocks are mapped nearby and the conductor appears to parallel the strike of the volcanics, so if it were a bedrock conductor a weak graphitic tuff would be the most profable cource.

Several weak, questionable, single-line anomalies have been included on the map. Of these, anomalies 1A, 1B and 5B may be "cultural" anomalies resulting from man-made conductors. Anomalies 5C and 16D are probably noise effects. Anomaly 19A, although very weak, has a somewhat better chance of being a legitimate EM response.

iv. RECORDANEOIS

OFfilia, Orterio,

June 29, 1965.

Conductors 1 through 6 are all recommended as prospects for massive sulphide mineralization, warranting careful ground encadmation. Conductor 3 is the best of the prospects, with strong, clean anomalies on three lines and an exceptionally strong response on line 11. Zone 1 is the next best but the conductor multiplicity in this zone may be considered somewhat discouraging.

Conductor 7 is interpreted as a surface conductor or at best, a weak graphitic zone, and no followup is recommended.

In a "caturation" exploration programme the best of the quastionable anomalies would require examination. These are 1. 12, 53, and 194.

Respectfully submitted,

The second second

A. R. Rattew, P.Eng., Geophysicist

APPENDIX I

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2 A	3179/31	20/30	135	<b>Til</b>	Possible cultur
3 2	8879/82	200/180	135	nil 2B	
<u><u> </u></u>	9432/5	150/230	140	Dir? 120g 2A	
5 A ·	9473/6	180/100	135	Dir.W 30g 2A	Double.
53	94.82 <b>/</b> 5	20/20	135	Dir. 40g. x	Noise probable
5 G	9519/22	30/30	135	E.Flank x	Poor character
6 A	0020/4	120/8 <b>0</b>	140	Dir. E 78g 3	Multiple
7 4	0063/C	20/80	140	nil 3	
7 E	0068/71	60/70	125	Dir. E 25g 3	Double .
9 A	03 <b>65/8</b>	40/20	140	nil	Poor character, Possible cultur
10 A	1151/4	250/180	135	Dir. 320g 2A	
10 3	1148/50	30/-	155	nil <b>x</b>	Possible turbu- lenc <b>e</b> noise .
	1245/8	1000 <b>/500</b>	135	Dir? 400g 1A	
	1257/60	20/30	150	Dir.300g 3	Weak
12 4	1738/41	320/320	130	W.Flank 2B 200g	
13 A	1830/3	40/40	150	70g	Weak
13 B	1841/4	70/100	150	Dir.35g 3	Double
10	2264/7	-/50	155	W.side 30g ×	Poor character, Prob. surface conductor
16 1	2823/6	70/-	150	nil ×	Turbulence nois probable

### APPENDIX I

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### APPENDIX II

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### ECUIPMENT

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The electromagnetic unit and the magnetometer are the key instruments in the Canadian Aero Mineral Surveys Limited Otter survey system. The remainder of the equipment consists of a radio-altimeter, a scintillation counter, an accelerometer, a continuous-strip camera, two recorders and a fiducial numbering system.

The EM unit is the low frequency (320 c.p.s.) in-phase/out-of-phase system designed by Mullard Ltd. of England and operated formerly by Riocanex. The transmitting and receiving coils are mounted on the wingtips of the Otter, with a vertical coplanar orientation and a separation of 61 fast. An electronic null device is adjusted so that in the absence of a conductor within the range of the system no signal is recorded. The anomalous signal is divided into two components, the "in-phase" component having the same phase as the transmitted field and the "quadrature" or "out-of-phase" component being at right angles to it. These two measurements are recorded on two channels of the six-channel recorder.

Variations in the total magnetic field of the earth are measured by the Elliott electron-beam tube magnetometer mounted in the aircraft. This instrument was designed by Elliott Brothers (London) Ltd. Anomalies as small as 10-15 gammas can normally be distinguished. The output of the magnetometer is presented as one channel on the six-channel recorder to facilitate correlation with the EM traces. It is also presented at a larger scale and in rectalinear form on a separate recorder, these recordings being used in the preparation of isomagnetic contour maps whenever they are required.

An APN-1 radio altimeter provides a terrain clearance profile on one channel of the six-channel recorder. Because EM response decays rapidly with increasing altitude this altitude information is important in the analysis of the EM data.

A vertical accelerometer mounted in the aircraft provides a record of the air turbulence and of any drastic manoauvres of the aircraft. The accelerometer trace on the sixchannel recorder is often helpful in recognizing spurious blips on the EM traces caused by air turbulence on drastic manoeuvres.

Nuclear Enterprises Mark VI-A scintillation counter in the aircraft records gamma radiation from the land surface. This record can be used as auxiliary location informatton since outcrop, overburden-covered areas and swamps are readily distinguishable by their radiation levels.

The entire flight path is photographed by a verticallymounted Aeropath 35 mm. continuous-strip camera. APPENDIX II - cont'd Page 2

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The six-channel recorder is a Brush curvilear unit. It is normally operated at a paper speed of 2 mm. per second. The magnetic data is also recorded on a six-inch Texas Instruments Rectalinear recorder.

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Synchronization of the film strip with the two recorders is accomplished by means of an automatic fiducial numbering system which prints simultaneous time markers on all three records at regular time intervals, normally every ten seconds.

### B. DESCRIPTION OF RECORDS

### Rectalinear Magnetic Record

With the chart oriented so that fiducial numbers increase from right to left, upward deflections on the chart indicate increases in the total magnetic field of the earth. At the normal setting (300 scale) the smallest division on the chart is approximately equivalent to 12 gammas. When the record "steps" a change of approximately 400 gammas is indicated. Two other scales are available to accommodate areas of large magnetic relief. On the "600" scale 1 small division is 40 gammas and a step is equivalent to 1200 gammas. All changes of scale are noted on the tape by the operator.

The fiducial marks are normally spaced at 10 second intervals, a spacing which is equivalent to approximately 1500 feet on the ground. The exact horizontal scale of the tape can be established by measuring the fiducial spacing on the map.

### Brush Six-Channel Record

With the chart oriented so that fiducial numbers increase from right to left the tracings from the bottom to the top of the chart are as follows:

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- 1) Fiducial markers same comments as above.
- 2) Magnatometer positive upward. At the normal setting (300 scale) 1 mm. is approximately equivalent to 15 gammas and a step is approximately 400 gammas. At the "600" and "1200" scales 1 mm. is 50 gammas and 150 gammas respectively and the steps are 1200 gammas and 3600 gammas.

It should be noted that this trace is a differential record with a time constant of some 4 seconds. The net result of this is to wipe out long term variations but to leave short tran changes relatively unaltered. This magnetometer record is therefore used primarily to check for possible relationships between EM anomalies and sharp magnetic features. APPENDIX II - cont d Page 3

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3) EM In-Phase - positive upward. 1 mm. represents approximately 20 parts per million, referred to the primary field at the receiving coil. The scale is linear until approximately 600 p.p.m. is reached, after which compression occurs to a level of 1200 p.p.m., beyond which the value is "off-scale."

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- 4) EM Quadrature positive upward. Same scale as In-Phase.
- 5) Altimeter increasing altitude upward. Centre line position approximately 150 feet. Scale below 150 feet approximately 5 feet per mm. Scale above 150 feet approximately 7 feet per mm.
- 5) Accelerometer an acceleration of 1/3"G" is equivalent to a 5 mm. deflection from the central point.
- 7) Scintillometer positive upward. 5 mm. represents a change of approximately 0.06 mr./hr.

### SURVEY AND MAP COMPILATION PROCEDURES

Uncontrolled airphoto mosaics usually serve as base maps for flying the survey and for compilation of the geophysical data. The most common scale is 1/4 mile per inch.

The flight lines are priented perpendicular to the assumed longest dimension of massive sulphide occurrences anticipated in the survey area. Occasionally two or more line directions have to be used to accommodate changes of geological strike within the area. Line spacings normally range between 1/8 mile and 1/4 mile.

The navigator is provided with "flight strips" of the area to be surveyed. These flight strips are a copy of the airphoto mosaic, with the intended flight lines inked and numbered. Navigation along the parallel flight lines is accomplished by visual means based on the physical detail observed on the photos. The aircraft is flown at a terrain clearance of 150 feet or, in rough terrain, at the lowest safe altitude.

Flight path is recovered in the field by comparison of the 35 mm. strip film with the airphoto mosaics. Identifiable points are marked on the mosaics and designated by numbers determined from the fiducial numbering system on the film. These recovered flight lines provide the positional basis for plotting the geophysical data. The EM anomalies are listed and graded in the field and are often plotted on the field mosaics to permit immediate acquisition of ground.

In our Ottawa office transparent overlays of the mosaics are prepared, upon which are drafted the recovered

APPENDIX II - cont'd Page 4

fiducial points, the interpolated flight line positions, the key planimetric features as traced from the mosaics, and the significant geophysical data. The geophysical data are subjected to a careful analysis by a geophysicist who prepares an interpretation report including recommendations for further work.

### D. DATA PRESENTATION

The data presentation procedure which we employ for the Otter geophysical system is a combination of an anomaly listing and a plan map plot of graded EM anomalies. The anomaly listing provides the significant details concerning each anomaly and the map gives a "bird's eye view" of the conductors detected.

For purposes of listing and to facilitate reference in the report each EM anomaly is assigned a "name," which is made up of the number of the line upon which the anomaly occurs plus a letter. For example, on line 257 anomalies would be named 257A, 257B, 257C, etc., from south to north or from west to east. The letter which appears beside each EM anomaly on the map is therefore part of its name. These names also appear on the Brush records and in the anomaly list.

The anomaly list contains the fiducial numbers at the edges of the EM anomaly, the in-phase and quadrature amplitudes in p.p.m., the altitude at which the anomaly was detected, the positional relationship of the EM (if any), a rating, and comments characteristics of the anomaly.

The nomenclature used in the "magnetics" column of the anomaly list requires some explanation. The main terms used are side, flank, edge and direct. These refer to the position of the EM peak relative to the axis of the magnetic feature. "Direct" depicts coincident peaks and similar widths; "edge" is slightly offset; "flank" is somewhere along the flank of the magnetic anomaly; "side" is down near the base. "N. Flank 800g" means that the EM anomaly occurs along the northern flank of a magnetic feature of 800 gammas total amplitude. When one peak of a multiple EM anomaly coincides with a magnetic high the specific peak may be designated. For example, if the southern peak of a double EM anomaly coincided with a 250 gamma magnetic anomaly the nomenclature would be "Dir. S. 250g".

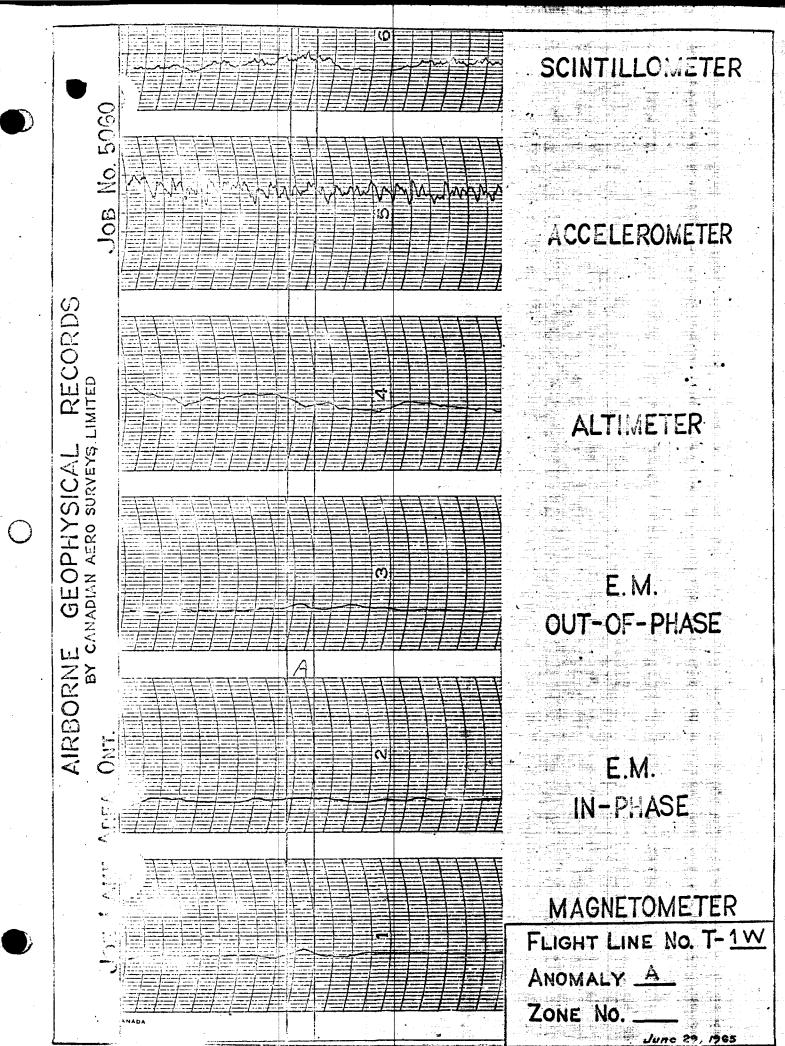
The rating assigned to each EM anomaly in the listing determines the symbol which represents the anomaly on the map. Six categories of anomalies are defined: 1A, 1B, 2A, 2B, 3, and X. The numbers "1", "2" and "3" are primarily a measure of in-phase amplitude corrected for altitude variation: "1" is for very large anomalies, "2" for intermediate, and "3" for relatively weak response. This rating is sometimes affected by the shape, by the in-phase to quadrature ratio, or by the location of the anomaly. The letters "A" and "B" merely refer to the magnetics:

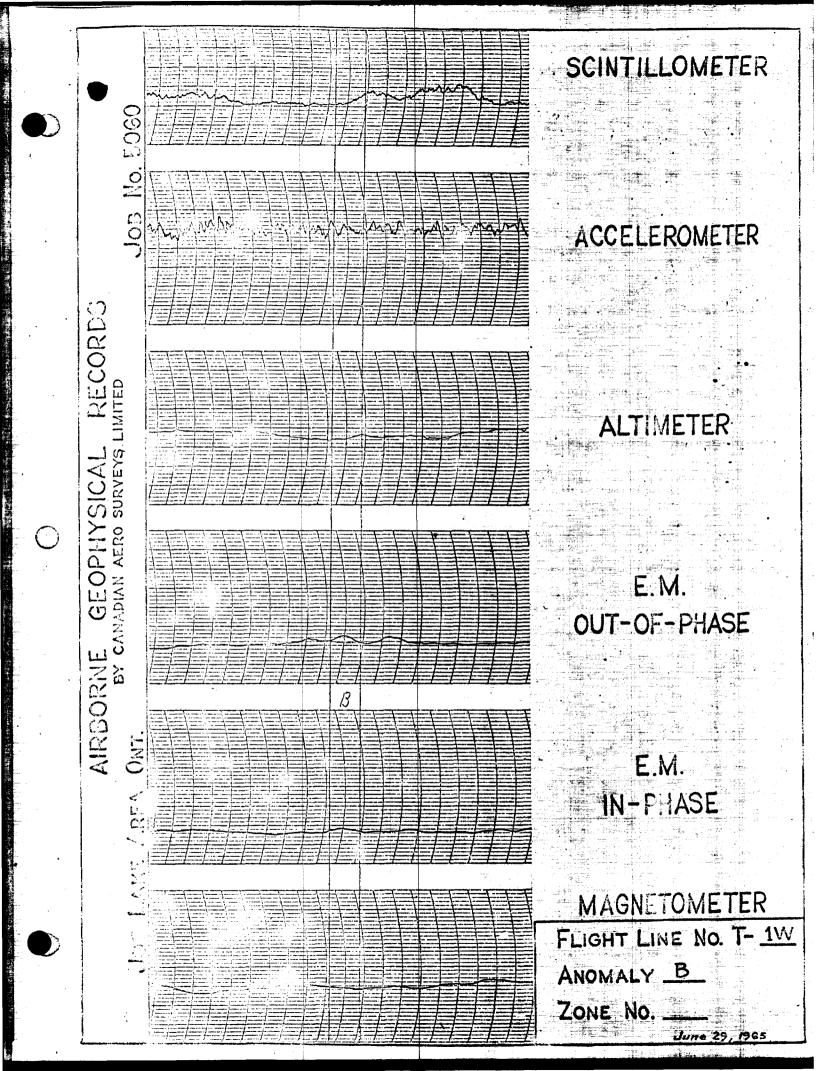
APPENDIX II - cont'à Page 5

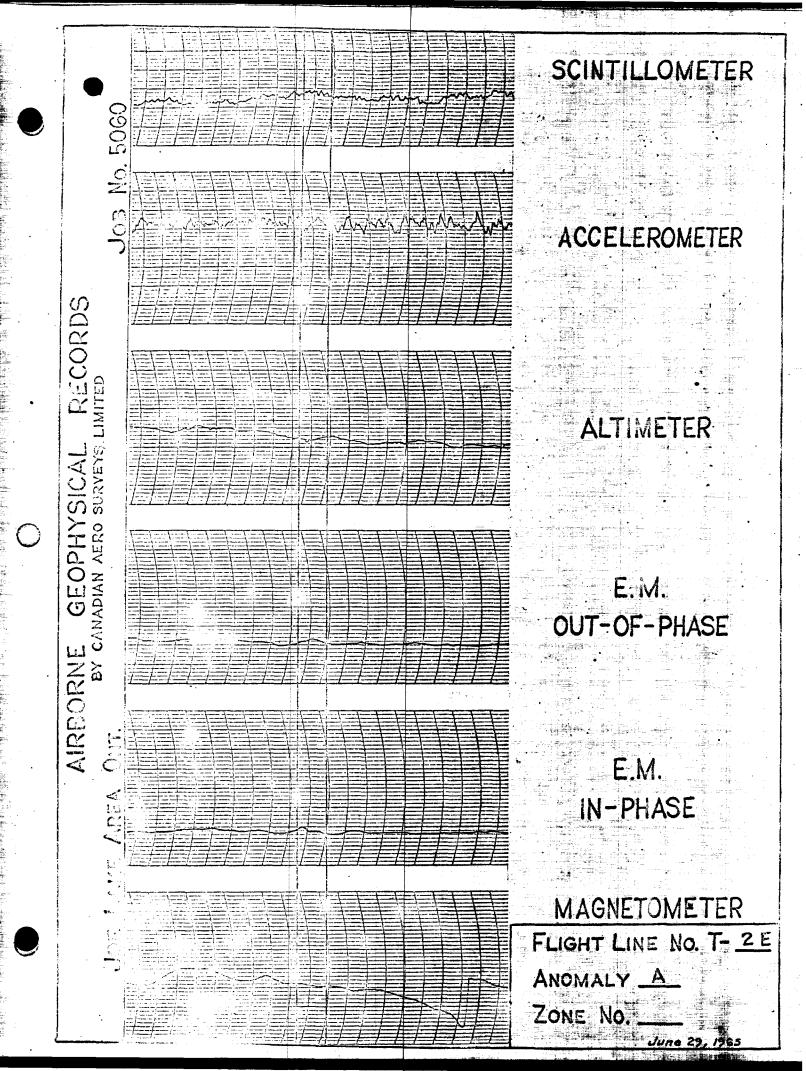
"A" indicates a directly coincident magnetic anomaly, and "B" indicates the lack thereof. The "X" rating is reserved for estionable anomalies. The legend on the map shows the symbol used for each of these ratings. In general, the more the rectangle is filled in, the stronger the anomaly.

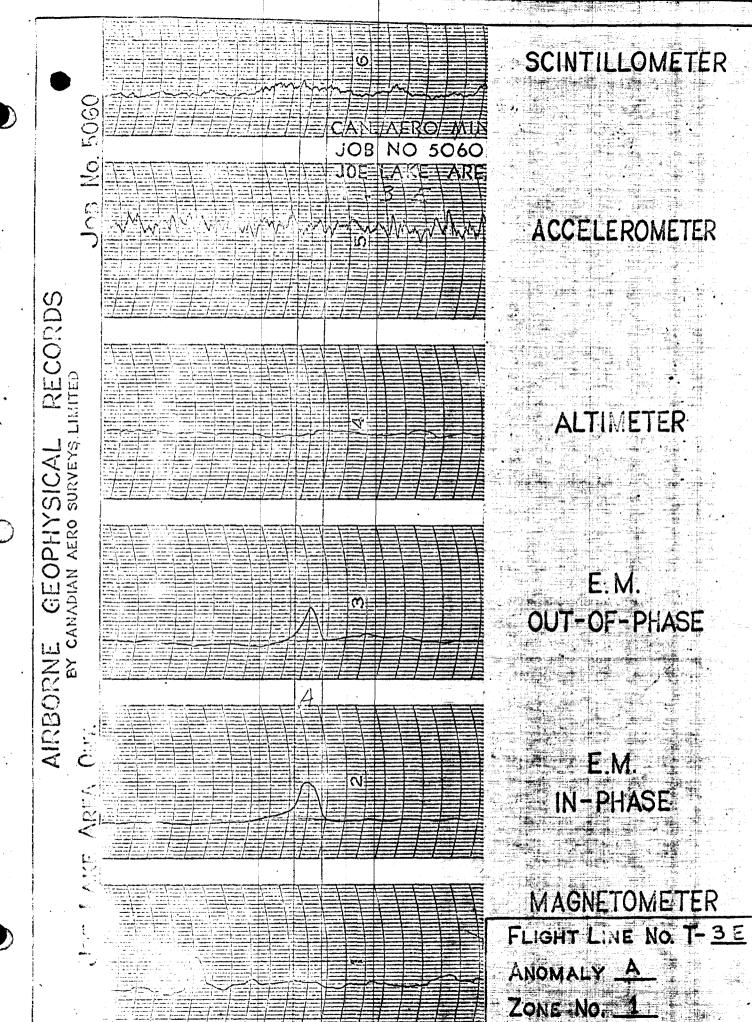
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In the case of directly coincident magnetic anomalies, the amplitude of the magnetic feature is shown on the EM map. It is stencilled beneath the symbol which portrays the EM anomaly.

During the final interpretation stage, EM anomalies are correlated from line to line wherever possible and the conductive zones are outlined. All definite conductors are numbered on the map and discussed in the report. 

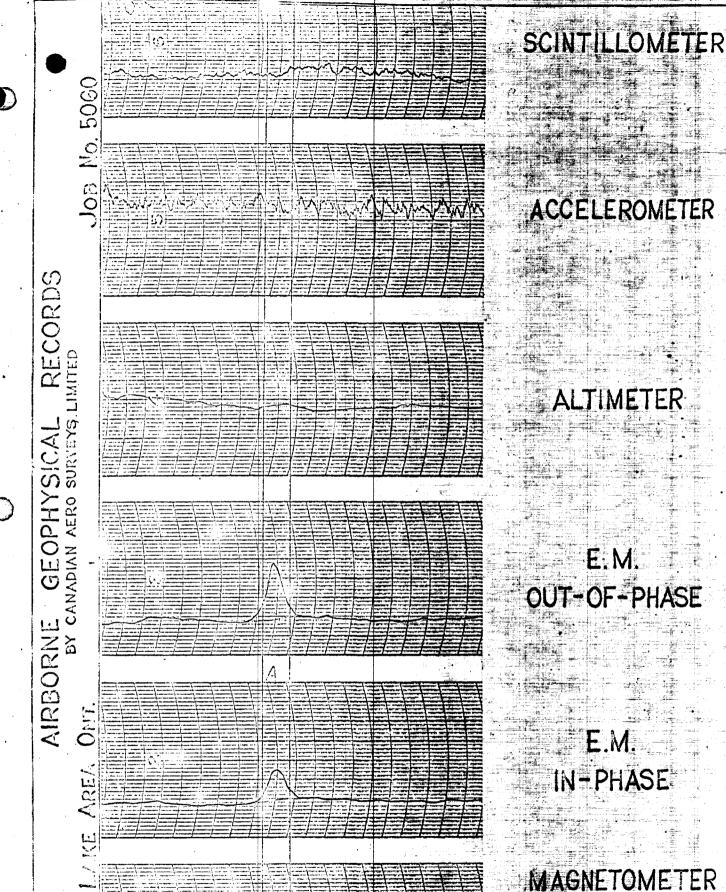








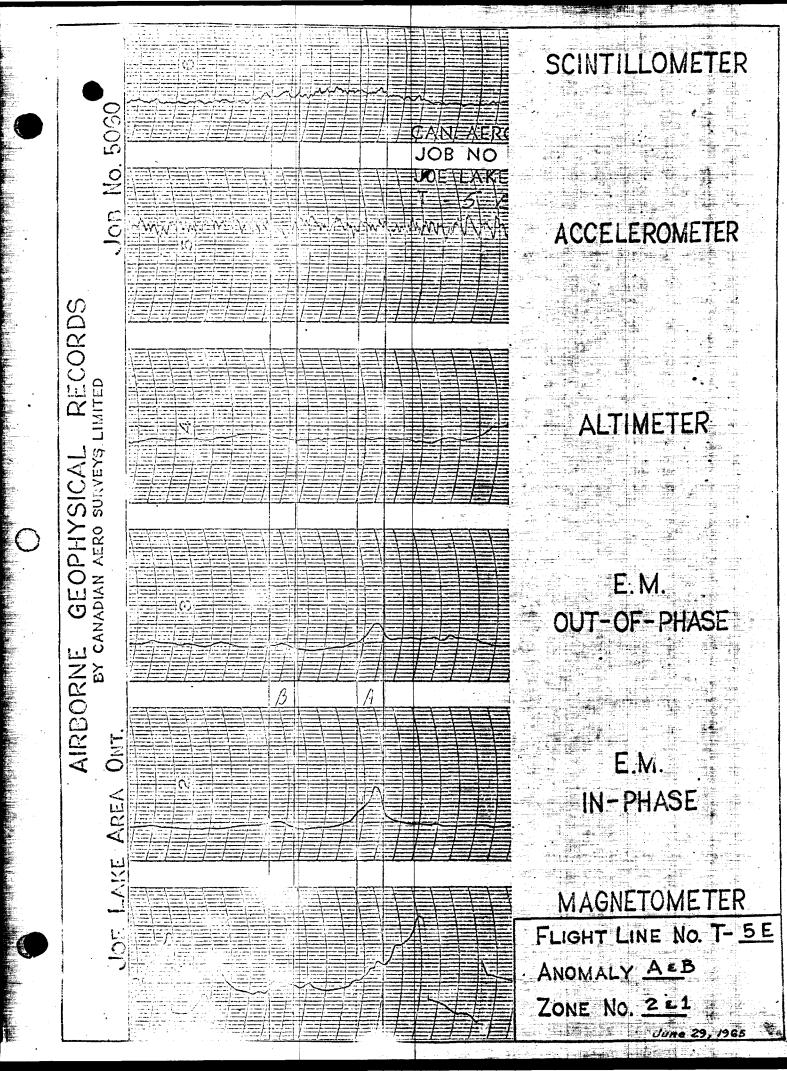
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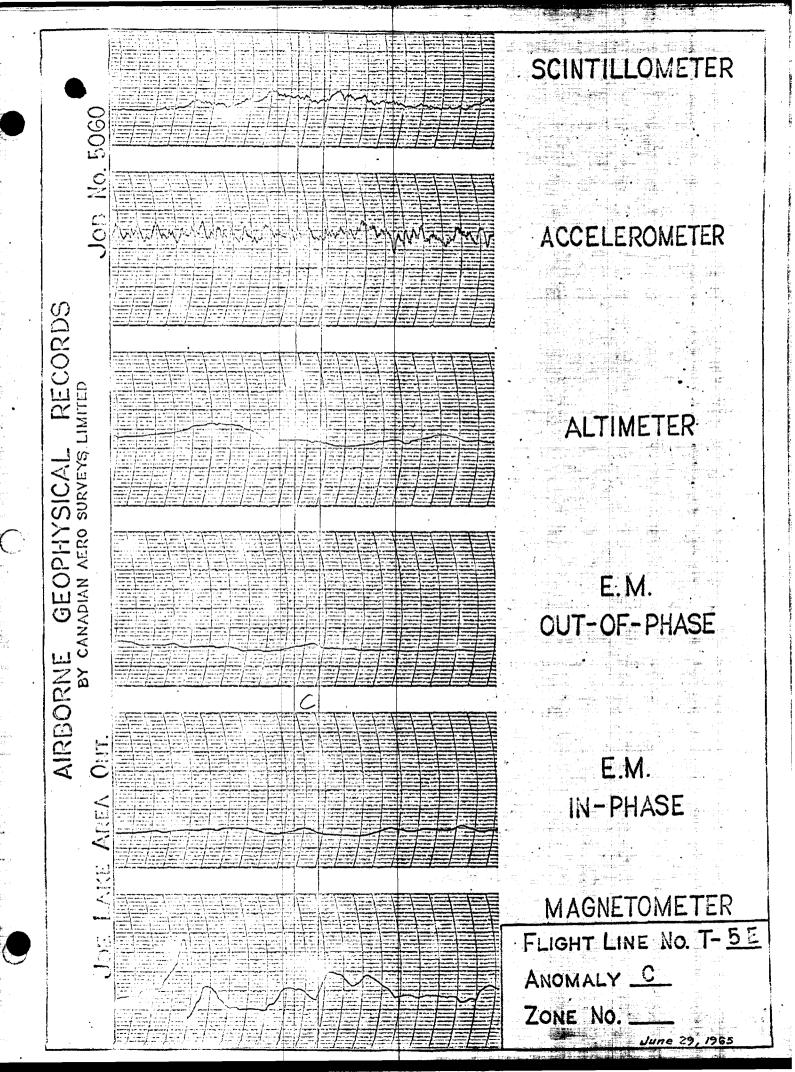


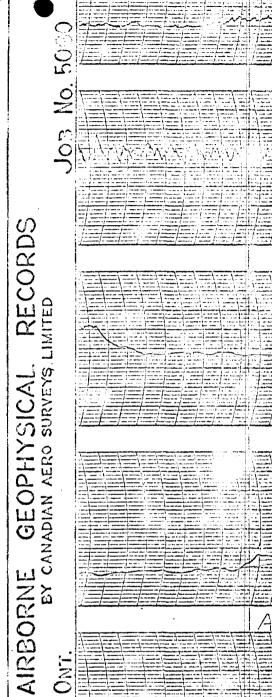
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MAGNETOMETER FLIGHT LINE NO. T-4-W ANOMALY A ZONE NO. 1

June 29, 1965







### ALTIMETER

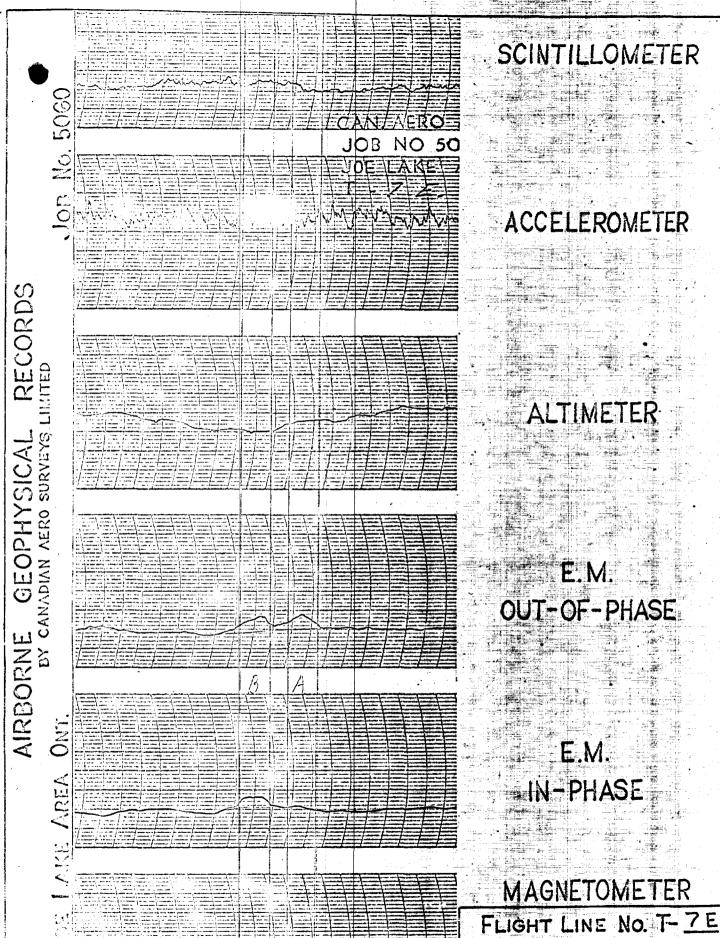
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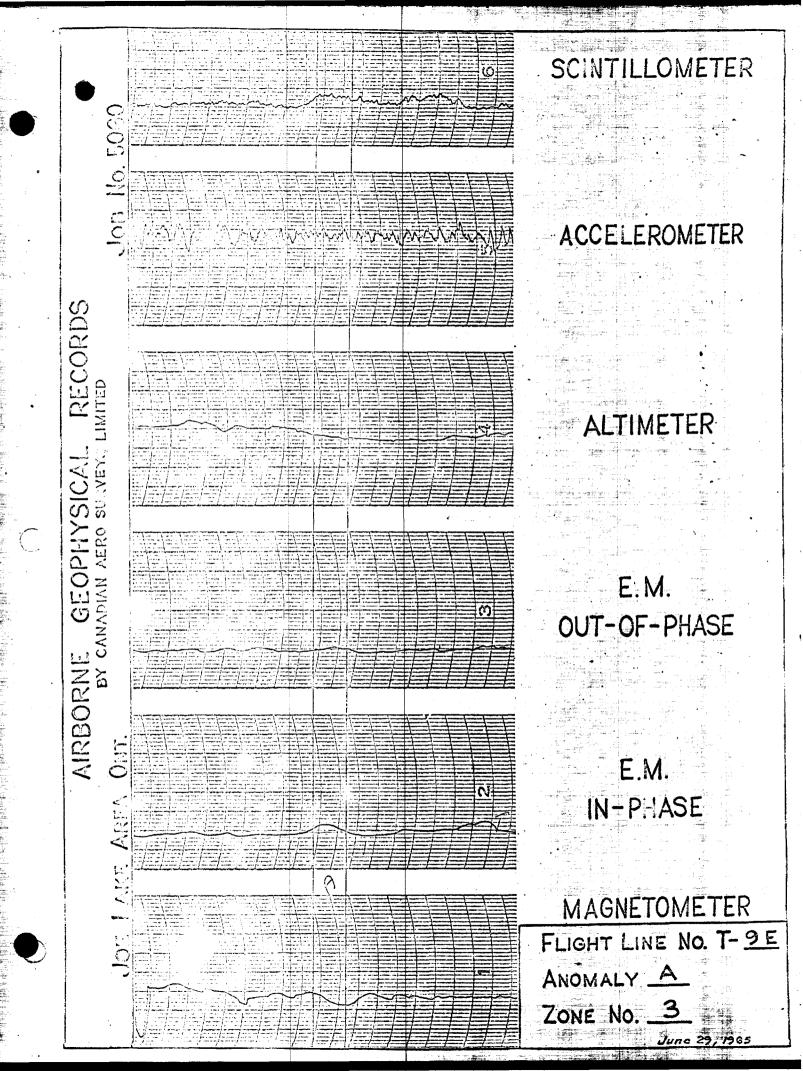
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MAGNETOMETER FLIGHT LINE NO. T-GW ANOMALY A ZONE NO. 1



ZONE NO. 1=2 June 29, 1985

ANOMALY A=B



203 AIRBORNE GEOPHYSICAL RECORDS BY CANADIAN AERO SURVEYS, LIMITED

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MAGNETOMETER FLIGHT LINE NO. T-10W ANOMALY <u>A&B</u> ZONE NO. 354

E.M. IN-PHASE

June 29, 1965

OUT-OF-PHASE

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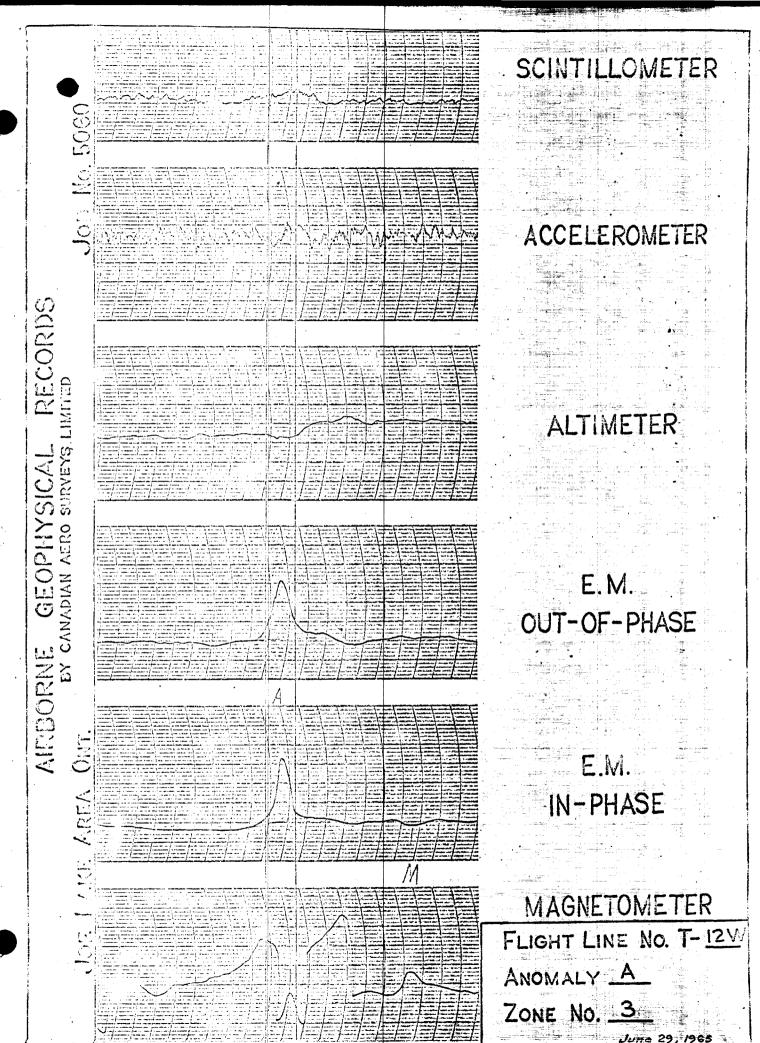
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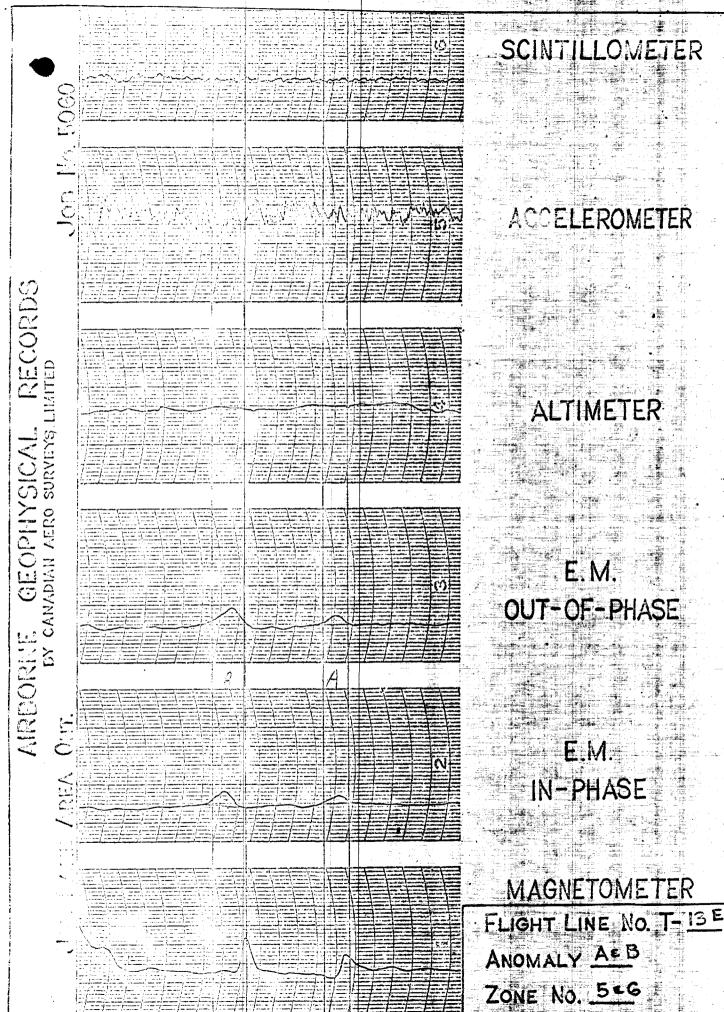
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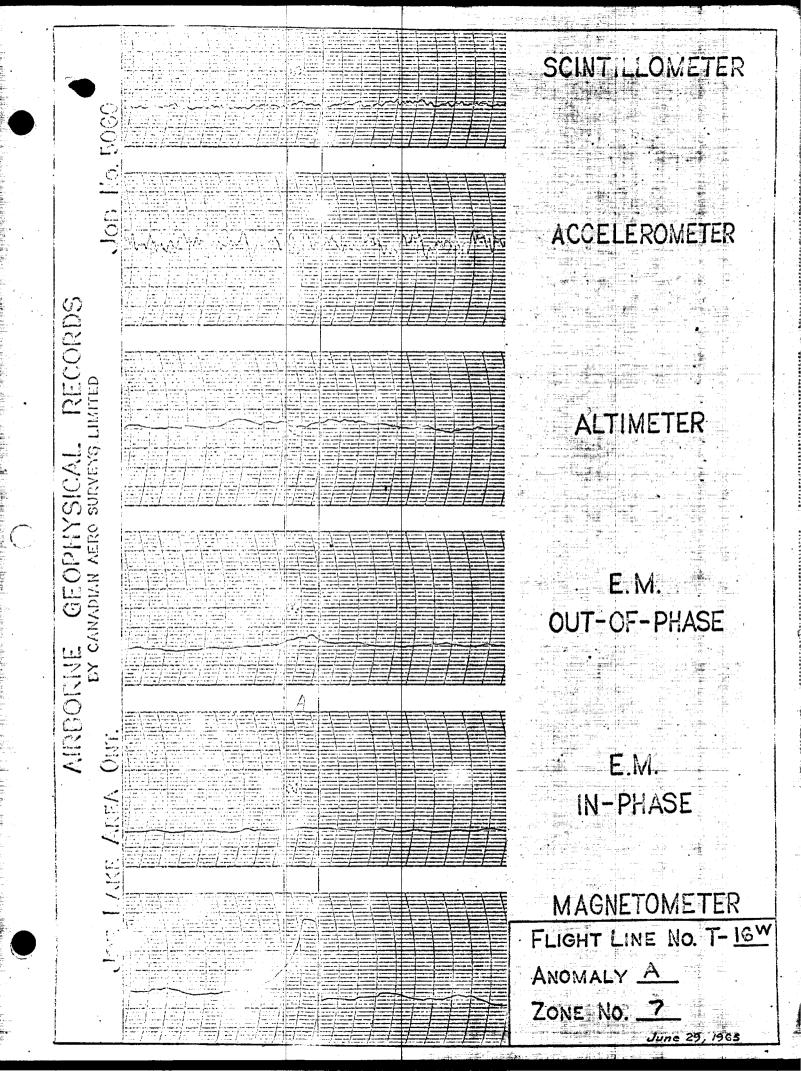


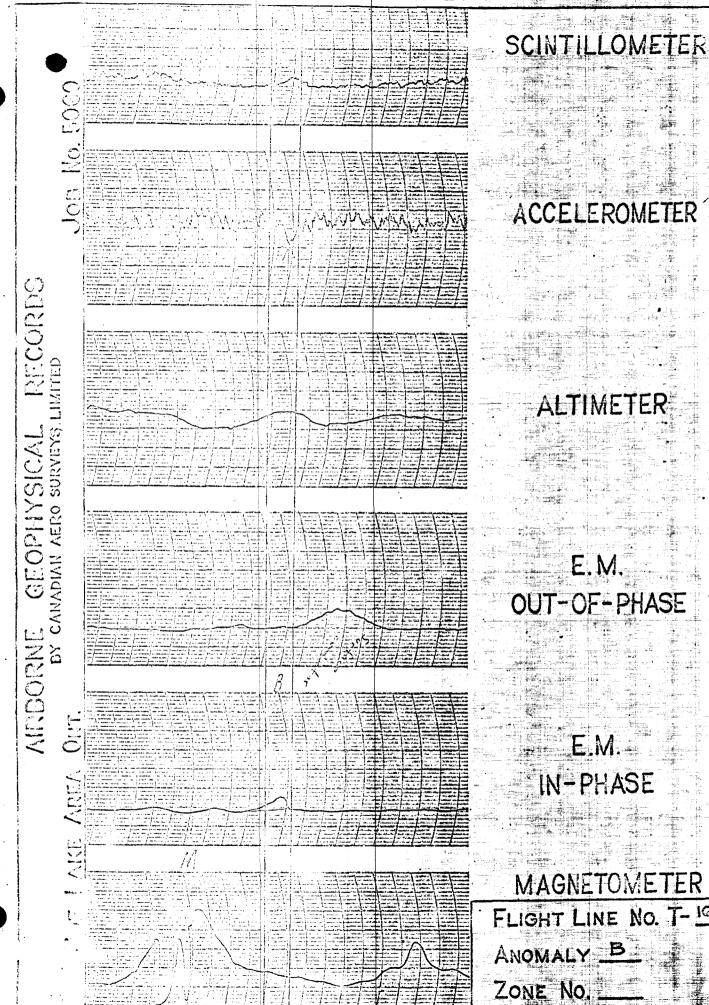
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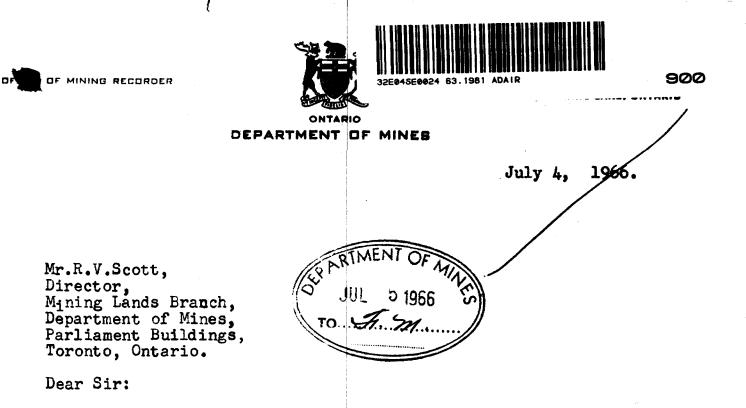
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Herewith are a number of maps received June 29th from Canadian Javelin Limited, 100 Bronson Avenue, Ottawa, with reports of work as follows:

24.4 days' geophysical work on each of mining claims L.91663 to L.91667 inclusive L.91671, L.91672, L.91673, L.91716, L.91745, L.91746, L.91747, L.91749, L.91750, L.92300, L.92301, L.92306.

9 days' geological work on each on each of the above mentioned.

20 days' geophysical work on each of mining claims L.91685, L.91686, L.91723 to L.91730 inclusive, L.91734, L.91735, L.91736, L.91737, L.92304, L.92305, L.92307 and L.92309.

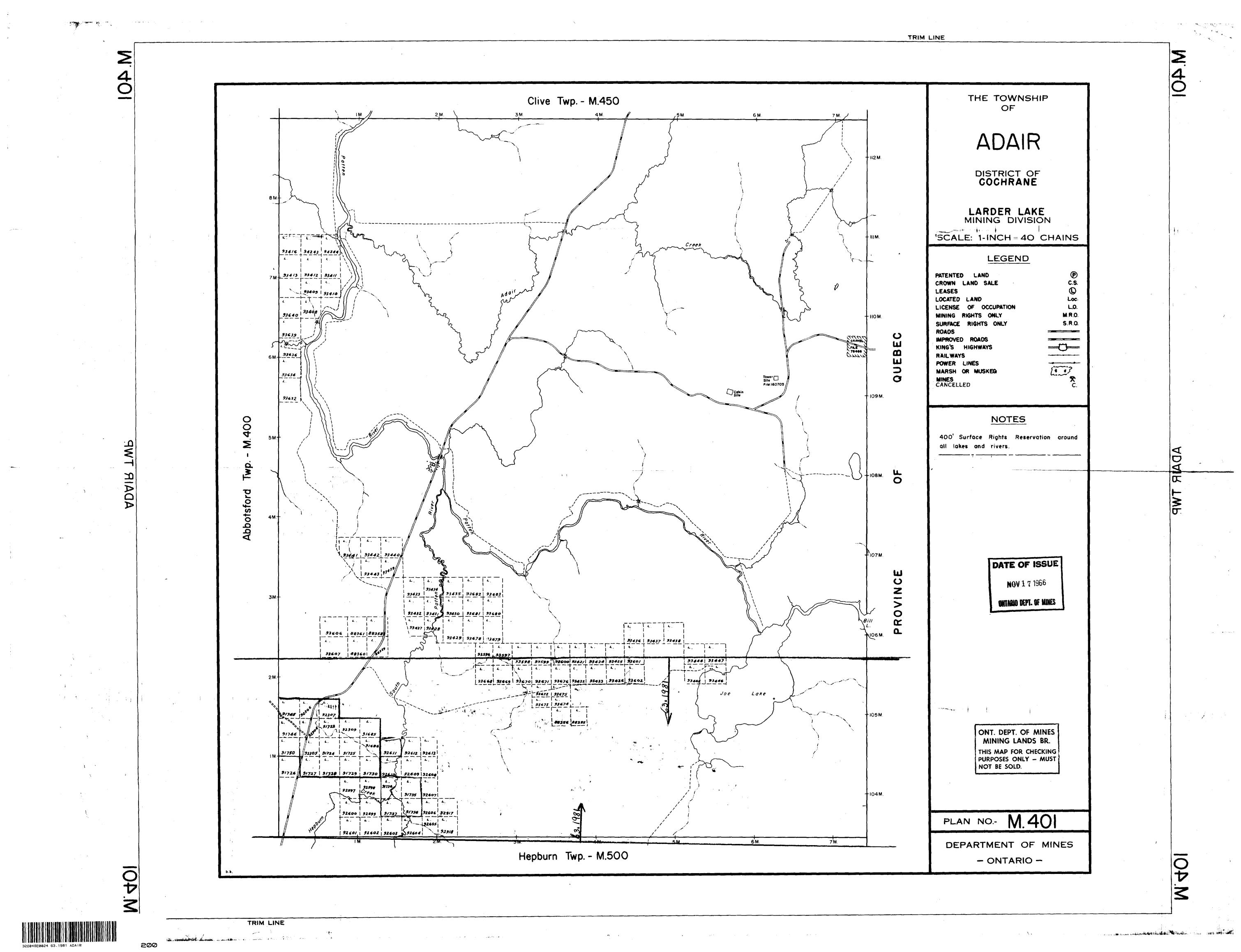
7.4 days' geological work on each of the aforementioned.

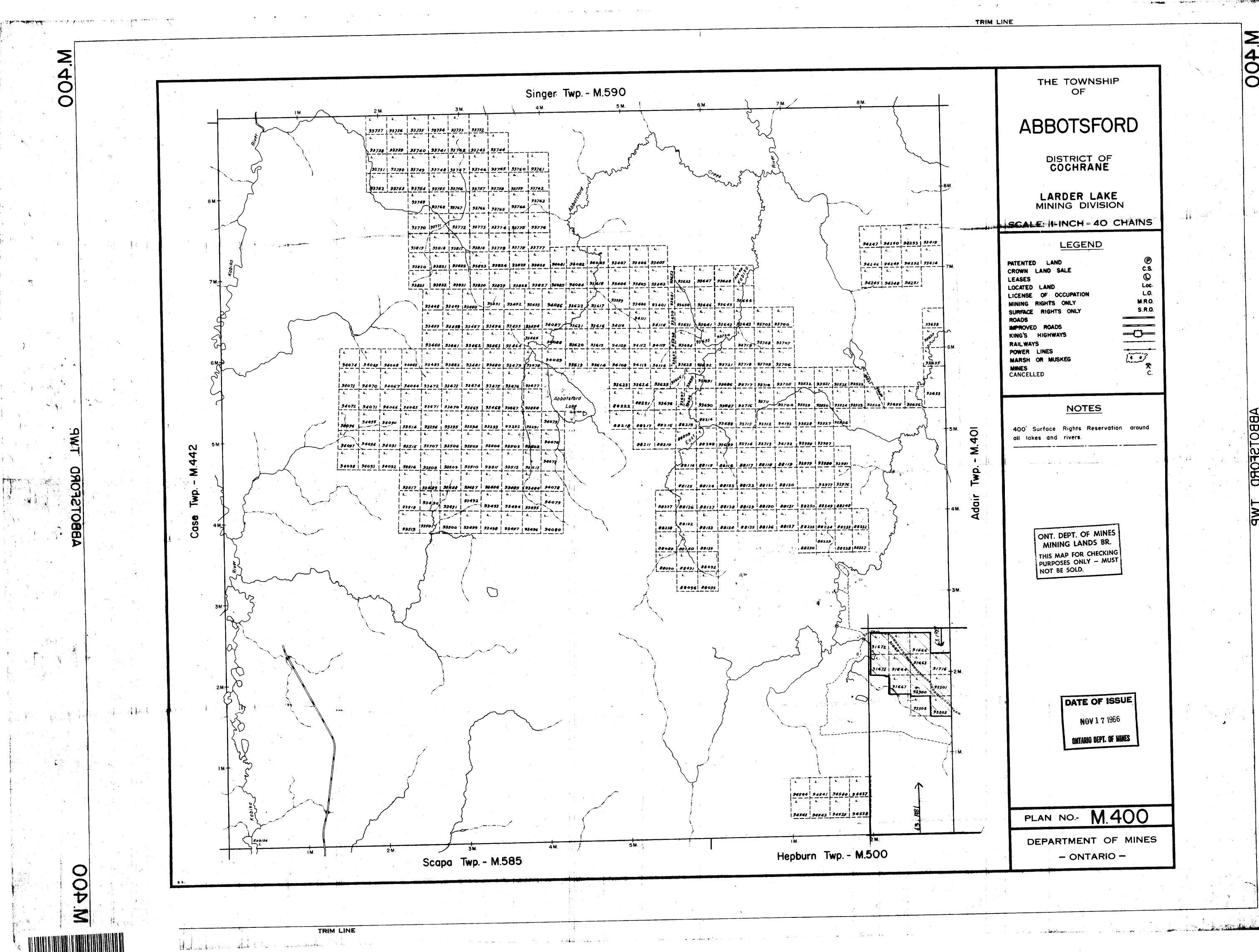
Herewith also are maps and reports of an airborne geophysical survey for which no assessment work credit is being claimed by way of reports of this work to this office.

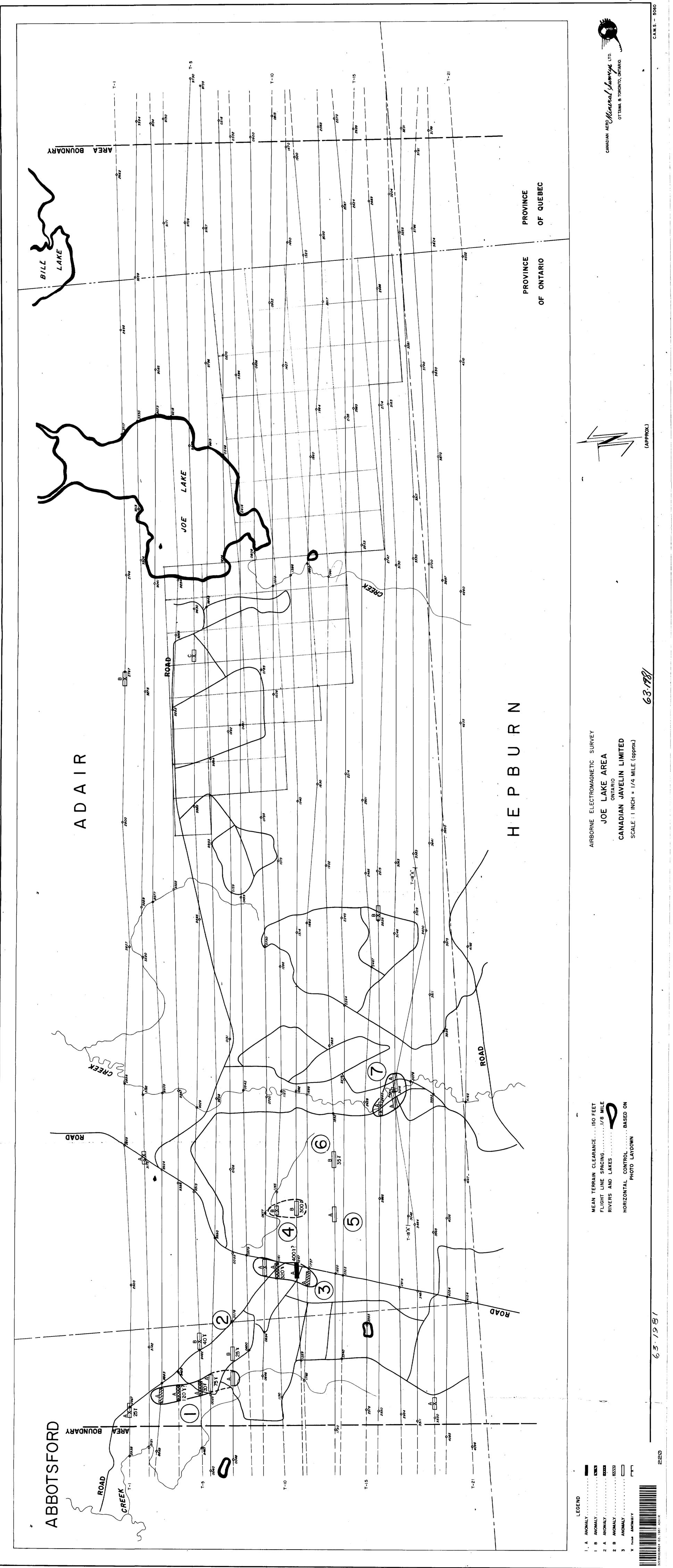
I also enclose duplicates sent to this office of reports of 1.6 days' work for assaying on mining claims L.91663 et al and .4 days' work for assaying on mining claims L.91685 et al which I am informed have already been submitted to the Miniater. Perhaps these could be marked approved and returned to be recorded if found acceptable to the Minister.

Yours very truly, zlee. Mining Recorder.

/PL. Encl.

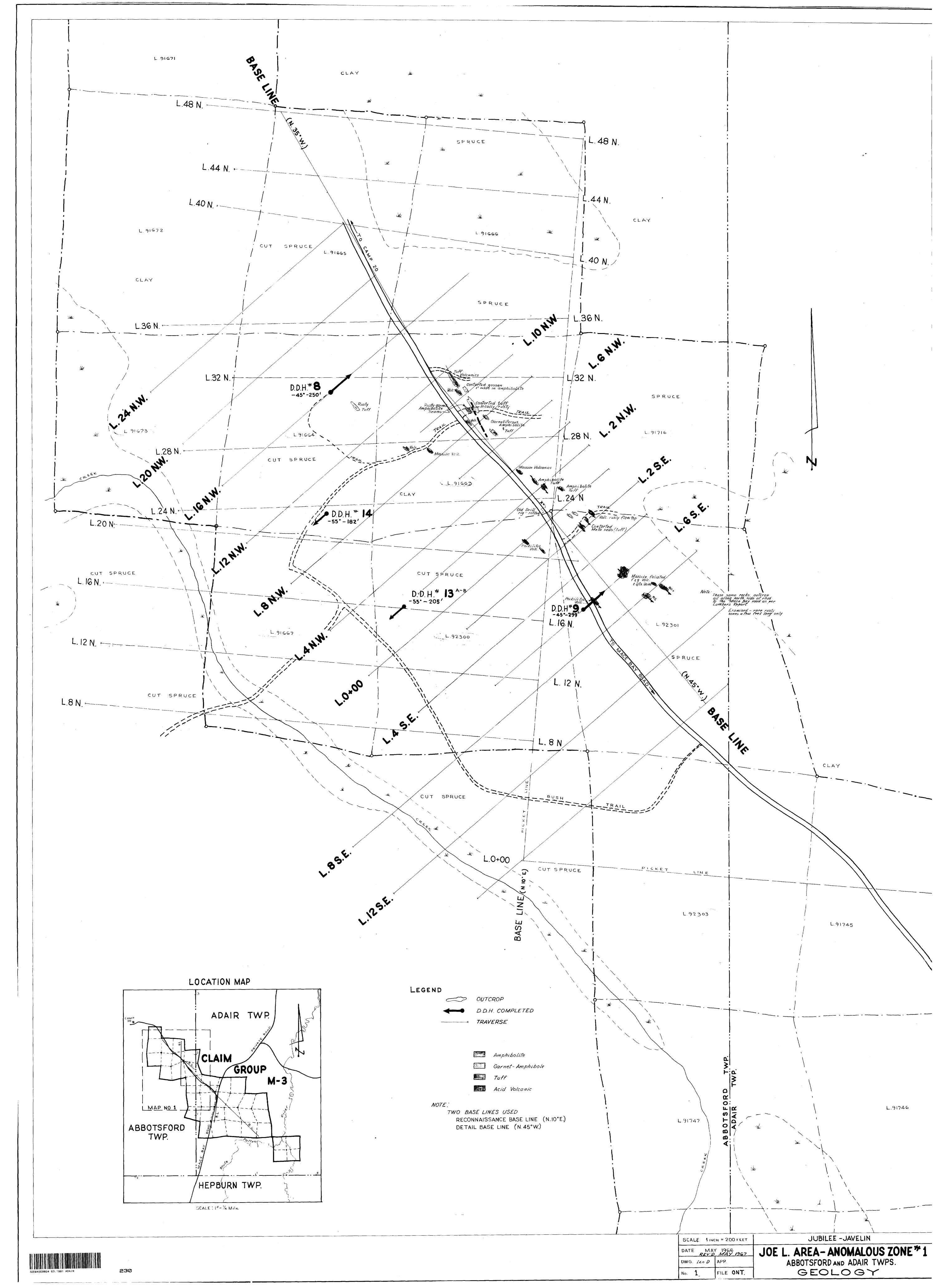


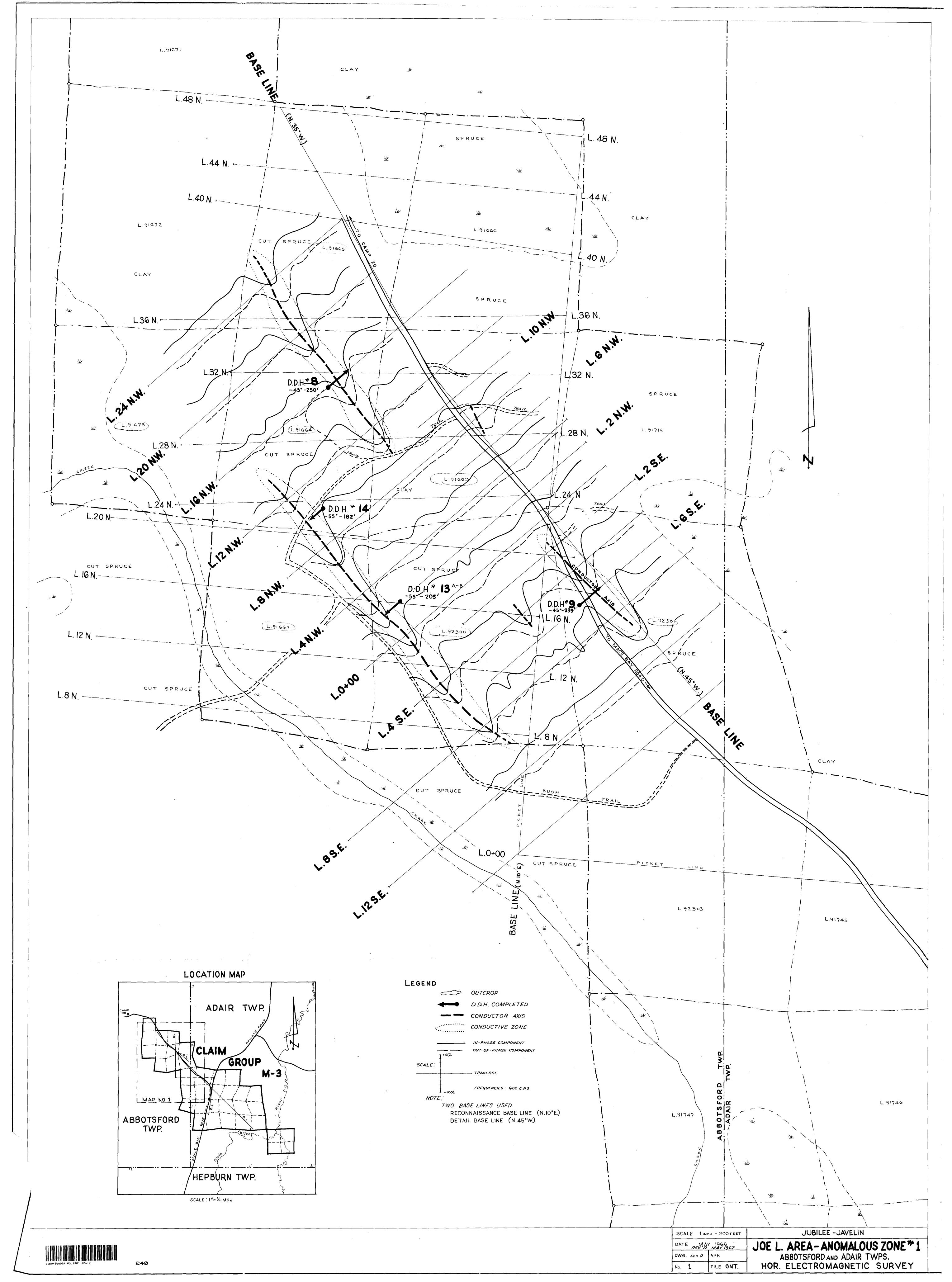




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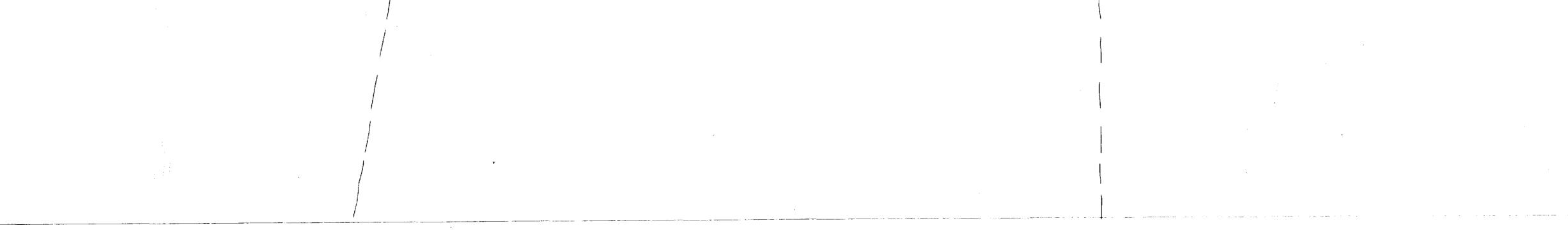
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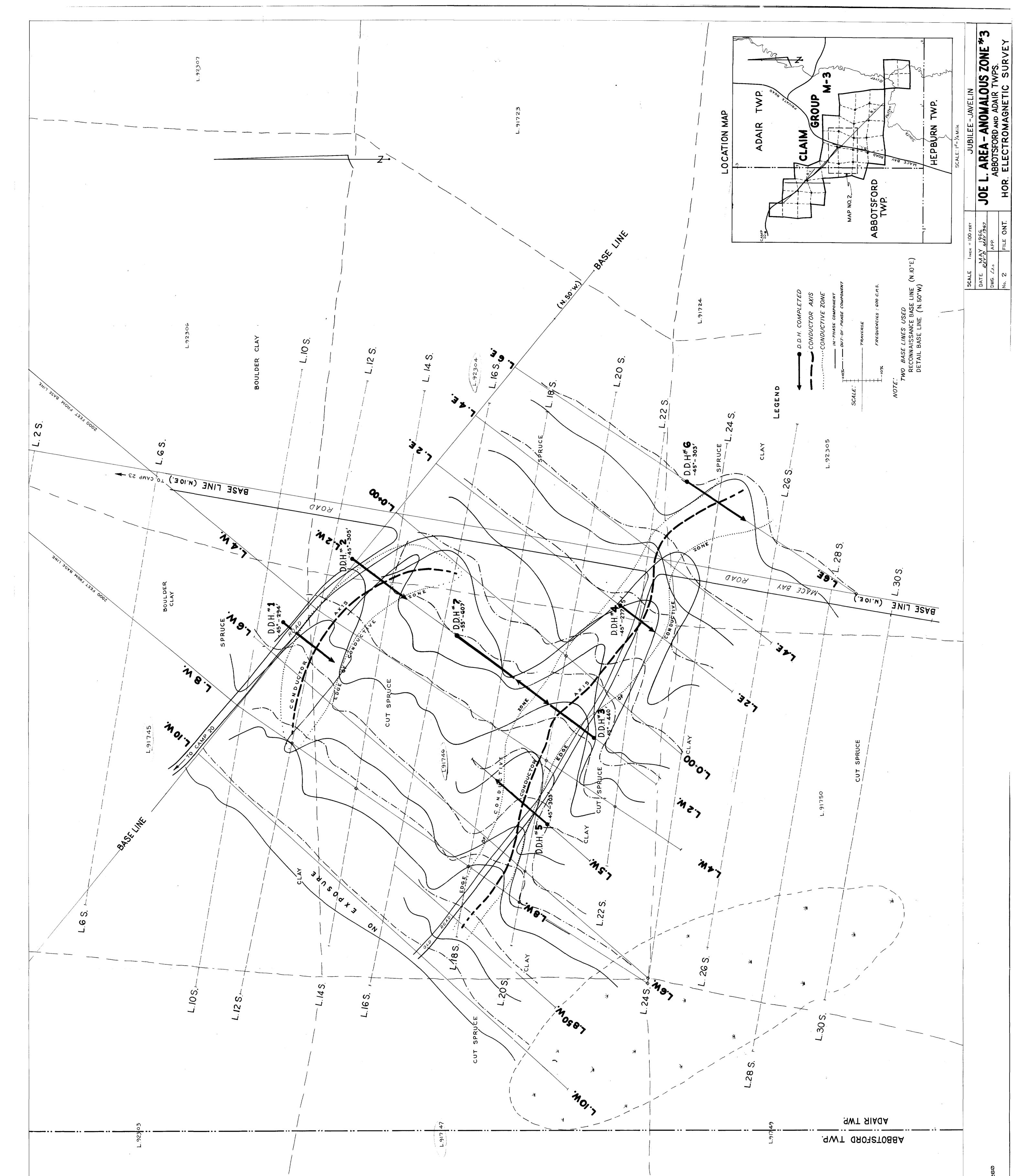






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