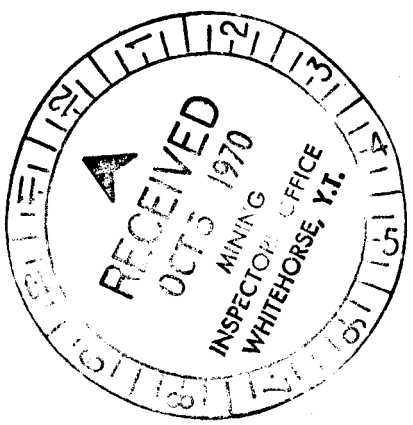
VINA MINERAL CLAIM GROUP

REPORT ON MAGNETIC GEOPHYSICAL SURVEY OF CLAIMS

Whitehorse Mining District
Yukon Territory



Latitude : 62°46'N

Longitude: 139°45'W

N.T.S. 115-J-13

Field work done in the period
April 15 - July 4, 1970

This report has been examined by the Geological Evaluation Unit and is recommended to the Commissioner to be considered as representation work in the amount of
$ 15,232.74

Assistant Geologist or
~~Resident Mining Engineer~~

Considered as representation work under Section 53 (a) Yukon Quartz Mining Act.

Commissioner of Yukon Territory

By:

KENNETH M. DAWSON

ATLAS EXPLORATIONS LIMITED
September, 1970

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LIST OF CLAIMS

CLAIMS		GRANT NUMBER	RECORDING DATE
VINA	1-8	Y3861-Y38368	Oct.2, 1969
	9-16	Y38369-Y38376	Oct. 2, 1969
	17-24	Y38377-Y38384	Oct. 2, 1969
	25-32	Y38385-Y38392	Oct. 2, 1969
	33-40	Y38393-Y38400	Oct. 2, 1969
	41-48	T38401-Y38408	Oct. 2, 1969
	49-56	Y38409-Y38416	Oct. 2, 1969
	57-64	Y38417-Y38424	Oct. 2, 1969
	65-72	Y38999-Y39006	Oct. 27,1969
	73-80	Y39007-Y39014	Oct. 27,1969
	81-88	Y39015-Y39022	Oct. 27,1969
	89-96	Y39023-Y39030	Oct. 27,1969
	97-104	Y39031-Y39038	Oct. 27,1969
	105-112	Y39039-Y39046	Oct. 27,1969
	113-120	Y39047-Y39054	Oct. 27,1969
	121-128	Y39055-Y39062	Oct. 27,1969
	129-136	Y39063-Y39070	Oct. 27,1969
	137-144	Y39071-Y39078	Oct. 27,1969
	145-148	Y39079-Y39082	Oct. 27,1969
	149-156	Y50392-Y50399	Feb. 20,1970
	157-164	Y50400-Y50407	Feb. 20,1970
	165-172	Y50408-Y50415	Feb. 20,1970
	173-180	Y50416-Y50423	Feb. 20,1970
	181-188	Y50424-Y50431	Feb. 20,1970
	189-196	Y50432-Y50439	Feb. 20,1970
	197-204	Y50440-Y50447	Feb. 20,1970
	205-212	Y50448-Y50455	Feb. 20,1970
	213-220	Y50456-Y50463	Feb. 20,1970
	221-228	Y50464-Y50471	Feb. 20,1970
	229-236	Y50472-Y50479	Feb. 20,1970
	237-241	Y50480-Y50484	Feb. 20,1970

TELEPHONE 685-4331

ATLAS EXPLORATIONS LIMITED

330 MARINE BUILDING
355 BURRARD STREET
VANCOUVER 1, B.C.

VINA MINERAL CLAIM GROUP
REPORT ON MAGNETIC GEOPHYSICAL SURVEY OF CLAIMS

INTRODUCTION

The Home Creek area was examined by Atlas geologists Kenneth Dawson and Colin Godwin in the course of a reconnaissance of the Dawson Range in July, 1969. In the area, granite stocks were observed that intrude the granodiorite batholith. The granites showed fine-grained, porphyritic and leucocratic phases, miarolitic cavities, and limonitic stains. Granite and granodiorite were intruded by abundant rhyolite, dacite and other porphyry dykes, and also overlain by small rhyolitic flows.

This favourable geology led to reconnaissance mapping and geochemical sampling of the Home Creek area in the latter part of August, 1969. Encouraging geochemical results led to routine geochemical sampling of the Home Creek area in September and October, 1969. The first block of 148 VINA mineral claims were staked at this time, and 93 VINA mineral claims were staked in February, 1970, bringing the total group to 241 claims.

Three grid areas were located on the basis of reconnaissance mapping and geochemical sampling in 1969. Detailed work on the three VINA grids, including linecutting, geochemical sampling, magnetometer surveys, and geological mapping was done in the period April 15 - July 4, 1970. Geologic mapping and prospecting of the claim area outside the grids and adjacent ground was done by Atlas personnel in the period May - July, 1970.

LOCATION AND ACCESS

The VINA claims are in the Dawson Range in western Yukon, 12 miles northeast of the abandoned settlement of Donjek on the White River. Location of the claim group is given on Location Map, Appendix I. The claims are situated mainly in the headwaters of Home Creek, but also occupy headwaters of Moose Creek, Carlisle Creek and Independence Creek. The claims fall entirely within claim sheet 115-J-13. The claim group is depicted on Key Map, Appendix II.

Access to the claims was attained by helicopter during 1969 and 1970. Men and supplies were flown by fixed-wing aircraft to the Yukon River, Uranus, Polaris and Casino airstrips, and then to the property by helicopter. An access road connecting Uranus and Polaris strips to Casino was used for servicing the airstrips.

MAGNETOMETER SURVEY

Instrument

A Sharpe MF-1 fluxgate-type vertical component magnetometer was used. The instrument is hand-held and designed for rapid, accurate ground surveys. It gives a direct reading in gamma values and is not subject to large-scale drift by virtue of extensive temperature compensation and advanced transistorized circuitry. The maximum sensitivity is 20 gammas per scale division and readibility is 5 gammas per scale division on the 1000-gamma range.

Survey Control

Base map used in the geophysical survey, as well as geochemical survey and geologic mapping of VINA claims, was a 1"= 1000 ft. topographic map, 50-foot contour interval, prepared by Atlas by Northwest Survey Corp. Ltd. The map was enlarged to 1"= 400 ft. for plotting geophysical data.

Survey control for magnetic survey was attained by three grids and four base lines. Base lines were chained off, all at Azimuth 180°, and grid lines were cut, using chain and compass, at 800 ft. intervals normal to the base lines. Seven grid lines in the Middle Grid were spaced at 400 ft. intervals. A total of 264,700 ft. of line were cut.

Magnetometer stations were located at 100 ft. intervals on base and cross lines. Native linecutters were hired in Ross River and supervised by Peter Dean.

Survey Method

Prior to the actual survey, readings were taken at intersections of cross lines with the base line. The stations were "looped" and re-read every hour as a means of controlling drift and diurnal variations. Base stations of an established value served as reference points for each cross-line portion of the survey. A rapid check was kept on magnetic variations and the entire survey was kept on a relative basis during day-to-day operations.

Treatment of Data

Results were corrected for diurnal variations and drift each night by the operator. The final gamma values were plotted on a grid plan using scale 1"= 400 ft. The data were contoured, and results compared with geologic mapping. Plans of station data are given in Appendices.

GEOLOGY

The VINA claims are located in the western Dawson Range, a northwest-trending belt of mountains 6000 ft. or more high, standing above the undulating surface of the Yukon Plateau.

Rocks underlying the claims include Yukon Group metasedimentary rocks in the north, Klotassin granodiorite in the south, Home granite sills and stocks, and related Tertiary flows and dykes.

Yukon Group gneiss of probable Precambrian age forms the roof pendants and walls of the granitic to granodioritic Klotassin batholith that constitutes the core of the Dawson Range. Large areas of these Cretaceous and older intrusive rocks are covered by intermediate to basic flows of the Early Tertiary Carmacks Volcanics. Tertiary intrusive bodies, including Home granite, occur as small stocks, sills and dykes flanking and intruding the Klotassin batholith. Younger related rhyolitic flows cap the older units in small disconnected patches.

Copper, molybdenum, lead and zinc mineralization is associated mainly with the Tertiary intrusions, and to a lesser degree with Cretaceous intrusives.

Regional geologic data is drawn, in part, from Geological Survey of Canada Preliminary Map 44-34 and Map 340A. A geological map of the VINA claims is given in Appendix III.

GEOPHYSICAL OBSERVATIONS AND INTERPRETATIONS

A small but intense magnetic high of 4100 gammas was detected on the North Grid of VINA claims, centred on the junction of the base line and line 48N. A contoured plan and profile given in

Appendix IV. This high corresponds with a "thumbprint" aeromagnetic anomaly in Geophysics Paper 4292.

The anomaly occurs directly over a 100 ft. wide dyke of fine-grained Home granite. Quartz hornblende gneiss at the dyke contact contains abundant disseminated pyrite and pyrrhotite. Disseminated magnetite and minor chalcopyrite were noted nearby. A soil geochemical response in copper was also obtained from this area.

The magnetic anomaly is adequately explained by observed magnetic contact mineralization. No other significant magnetic features were noted on the North Grid.

No significant magnetic anomalies were detected on the Middle Grid. A weak NNW linear magnetic trend across the western part of the grid corresponds to a major fracture inferred from aerial photographs. A contoured plan of the Middle Grid magnetometer data is given in Appendix V.

Three magnetic trends were noted from the survey of the South Grid. A small, linear high of 1000 gammas with adjacent low were noted in the northeast corner of the grid. An inferred Home granite - Klotassin granodiorite contact passes nearby, and this response may represent disseminated contact mineralization. Two weak linear trends, NNW and NNE, defined by

crude alignment of highs and lows, may correspond to major fractures of similar orientation inferred from aerial photographs. A contoured plan and a profile of the South Grid magnetic data are given is Appendix VI.

CONCLUSIONS

1. A small intense magnetic anomaly occurs over disseminated contact pyrite-pyrrhotite-magnetite mineralization bordering a Home granite dyke. Follow-up geochemical and geological surveys of the area revealed that the mineralization lacks economic potential.

2. Linear orientation of weak magnetic highs and lows on Middle and South VINA Grids are attributed to underlying major fractures.

3. A small magnetic high on the Middle Grid is adjacent to an inferred contact and may be due to disseminated contact mineralization similar to that observed on the North Grid.

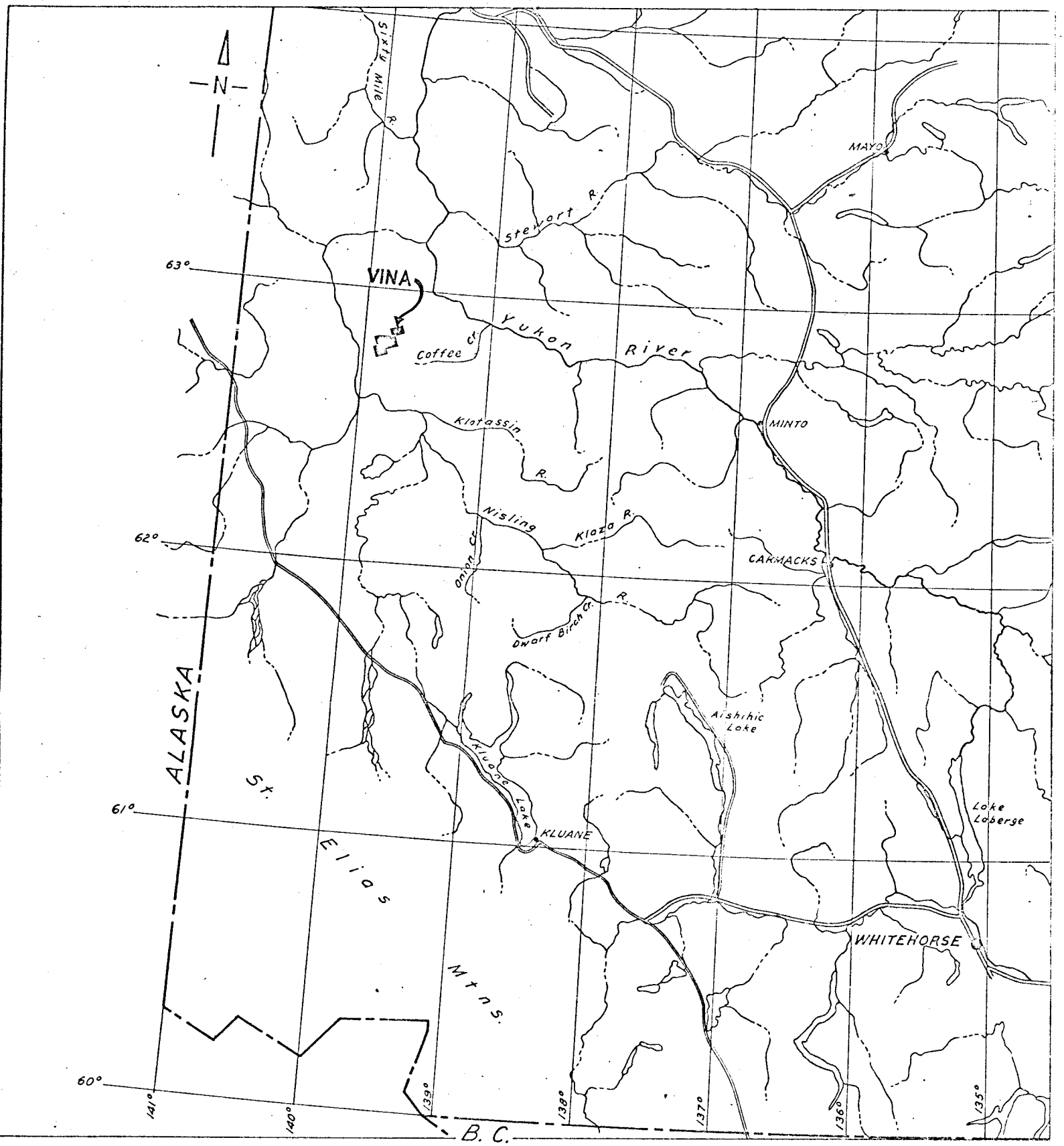
4. No magnetic anomalies worthy of trenching or diamond drilling were detected on the VINA claims.

Respectfully submitted,

Kenneth M. Dawson,
Geologist

Sept.1970

PROFESSIONAL ENGINEER
PROVINCE OF BRITISH COLUMBIA
R. E. GORDON DAVIS



Scale: 1" = 32 miles

KEY MAP SHOWING
VINA CLAIM GROUP
DAWSON RANGE – YUKON TERRITORY

KEY MAP
VINA CLAIM GROUP

SCALE: 1" = ½ MILE

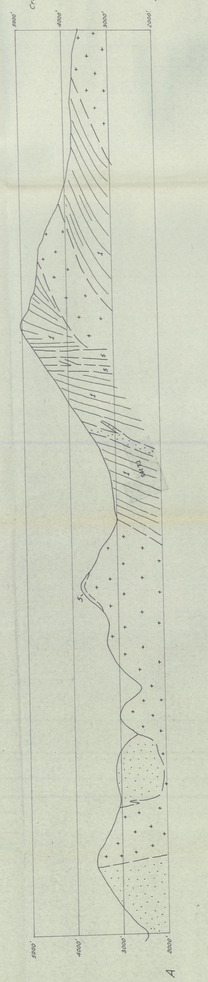
N.T.S. 115-J-13

62°50'N

139°47'W

T 32 E

Cross Section A-A'
Horz. Scale 1" = 2000'
Vertical Scale 1" = 1000'



GEOLOGICAL LEGEND

5 *TERTIARY (?)*
Buff, pink or brown rhyolite and felsite flows and related porphyry and fine grained granite dykes. Flow and dyke textures may be aphanitic, porphyritic, banded and/or sphorulitic.

4 *TERTIARY (?)*
Basic and ultrabasic dykes - latite and dacite porphyry, diabase, serpentinite.

3 *TERTIARY (?)*
Home Granite
Fine to medium grained equigranular pink biotite granite, biotite quartz monzonite and alaskite. Commonly porphyritic and/or miarolytic. Minor propylitic alteration. Sills, stocks, plugs and dykes.

2 *LATE CRETACEOUS (?)*
Klotassin Granodiorite
Medium to coarse grained hypidiomorphic and/or porphyritic grey hornblende (minor biotite) granodiorite, quartz diorite and quartz monzonite. Weak propylitic alteration developed locally. Foliated and gneissic, in part. Related diorite dykes.

1 *PRE-CAMBRIAN*
Yukon Group
High-grade metamorphic assemblage including granitic and diaritic gneiss, quartz hornblende gneiss, grey to blue psartzite, and amphibolite. Foliation trends northwest to west and dips southward.

ATLAS EXPLORATIONS LIMITED		
GEOLOGY OF VINA CLAIMS Dawson Range - Yukon		
N. T. S.: 115-J-13		SCALE: 1" = 1000'
DATE OF SURVEY: July 1970		PARTY CHIEF: K.M. DAWSON
DATE DRAFTED: SEPT. 14, 1970		DRAFTED BY: G.T.
DATE REVISED:		REVISED BY:
CHECKED BY:		FIGURE No.:

	8N	16N	24N	32N	40N	48N	56N	64N
20E	.660	.640	.630	.700	.580	.480	.570	.710
	.680	.680	.610	.630	.570	.440	.610	.640
	.650	.680	.620	.610	.590	.390	.700	.660
	.670	.670	.660	.690	.640	.330	.650	.560
	.650	.670	.680	.650	.690	.240	.540	.590
	.670	.690	.670	.690	.740	.120	.690	.700
	.590	.660	.680	.650	.690	.240	.540	.590
	.710	.690	.670	.660	.860	.510	.390	.620
	.690	.650	.700	.660	.900	.720	.320	.670
	.720	.660	.740	.670	.860	.1,720	.240	.580
	.730	.680	.760	.650	.790	.1,920	.150	.540
10E	.740	.720	.750	.660	.760	.2,120	.240	.660
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	.700	.650	.710	.680	.640	.3,820	.930	.740
	.650	.710	.660	.680	.640	.1,670	.140	.620
	.730	.500	.670	.640	.640	.1,070	.820	.680
	.720	.1,170	.660	.650	.610	.1,270	.150	.600
	.700	.690	.660	.690	.610	.2,770	.230	.510
	.730	.740	.710	.730	.650	.4,120	.430	.440
	.670	.720	.710	.700	.610	.2,770	.550	.440
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	.700	.730	.750	.730	.570	.3,920	.1,130	.390
	.730	.740	.710	.730	.650	.4,120	.430	.440
	.670	.720	.710	.700	.610	.2,770	.550	.440
	.720	.500	.670	.690	.610	.2,120	.220	.480
	.730	.1,170	.660	.640	.640	.3,820	.930	.510
	.700	.690	.660	.650	.640	.1,670	.140	.600
	.650	.710	.710	.680	.680	.1,070	.820	.680
	.720	.720	.700	.660	.770	.1,270	.150	.740
	.740	.720	.750	.660	.760	.2,120	.240	.620
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	.720	.700	.710	.680	.860	.4,120	.390	.580
	.760	.710	.720	.700	.900	.510	.430	.540
	.800	.720	.680	.660	.860	.1,720	.530	.660
	.760	.680	.710	.690	.810	.240	.570	.690
	.740	.710	.700	.710	.740	.120	.690	.700
	.750	.700	.710	.710	.690	.240	.540	.590
	.760	.720	.730	.720	.640	.330	.650	.560
	.760	.670	.690	.690	.640	.390	.700	.660
	.740	.680	.690	.710	.640	.440	.610	.640
	.760	.720	.650	.710	.640	.480	.570	.710
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	.740	.740	.750	.720	.720	.610	.540	.510
	.710	.760	.720	.790	.730	.910	.720	.490
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	.700	.770	.840	.730	.660	.550	.390	.470
	.640	.780	.700	.710	.630	.460	.350	.460
	.700	.730	.750	.730	.570	.500	.300	.570
	.730	.740	.710	.730	.650	.640	.320	.540
	.670	.720	.710	.700	.610	.650	.470	.550
	.720	.760	.730	.690	.610	.520	.310	.450
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	.760	.780	.730	.730	.900	.870	.380	.520
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	.760	.710	.730	.740	.650	.1,220	.620	.620
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	.760	.700	.730	.740	.630	.870	.400	.460
	.800	.710	.730	.740	.630	.920	.330	.500
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	.640	.780	.730	.740	.630	.2,490	.550	.390
	.700	.730	.730	.740	.630	.3,920	.220	.440
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	.740	.720	.730	.740	.630	.480	.540	.510
	.720	.780	.730	.740	.630	.540	.720	.490
	.760	.700	.730	.740	.630	.610	.560	.490
	.800	.710	.730	.740	.630	.550	.390	.470
	.760	.720	.730	.740	.630	.460	.350	.460
	.740	.710	.730	.740	.630	.500	.300	.570
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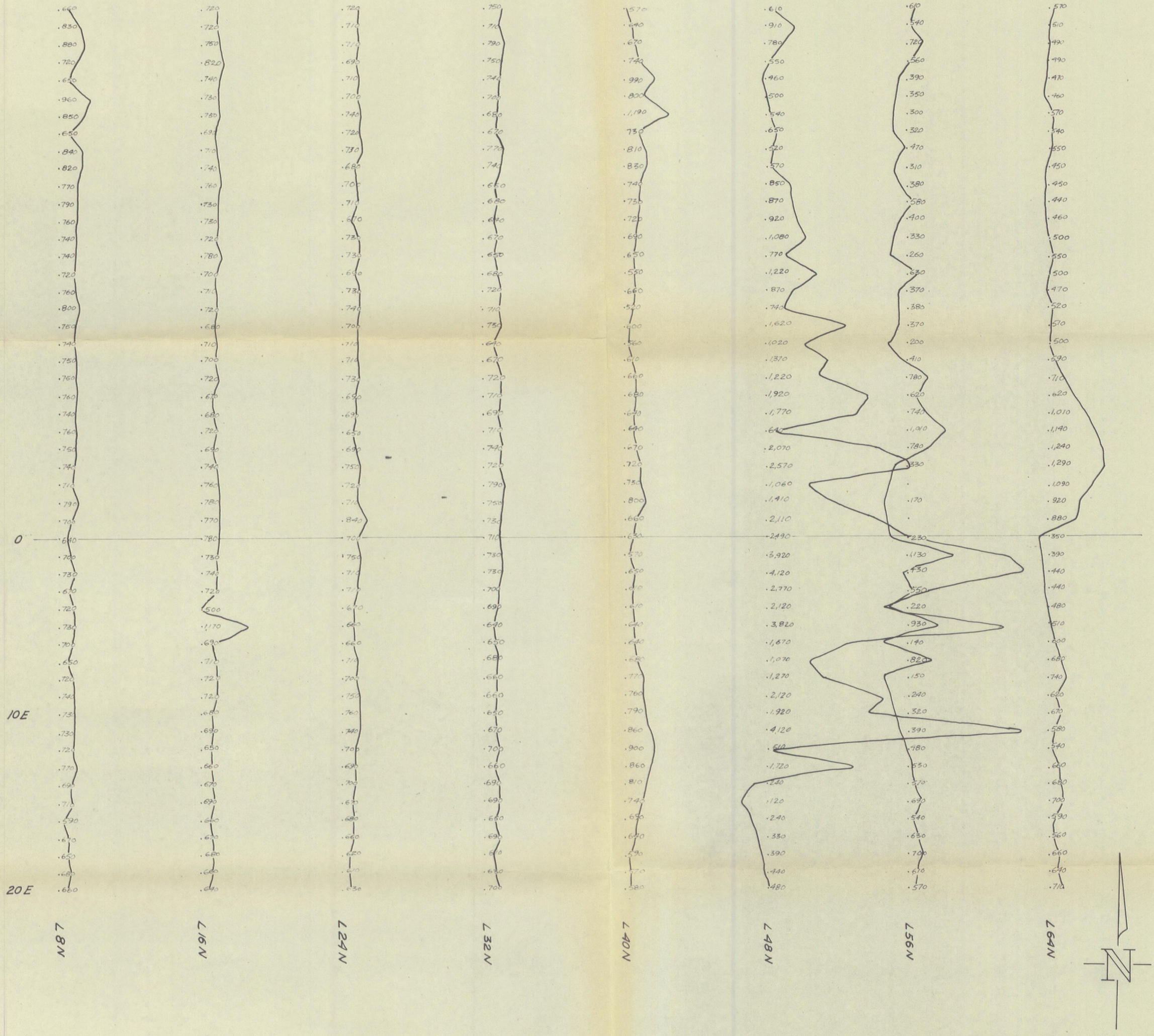
	.740	.730



Vina-Grid 2 (North Grid)
Profile Scale: 1" = 1000γ
Instrument: Sharpes MF-1
Operator: J. Britton

ATLAS EXPLORATIONS LIMITED

VICTOR PROJECT - VINA CLAIM GROUP
MAGNETOMETER SURVEY

N. T. S.: 115-J-13		SCALE: 1" = 400'
DATE OF SURVEY: July 2-9, 1970		PARTY CHIEF: P. Dean
DATE DRAFTED: Sept. 22, 1970		DRAFTED BY: J. A. D.
DATE REVISED		REVISED BY:
CHECKED BY:		FIGURE No.:

BASELINE 30 W

BASE LINE 0

L-140N

L-132N

L-124N

L-116N

L-108N

L-100N

L-96N

L-92N

L-88N

L-84N

L-80N

L-76N

L-72N

BASELINE 10 W

BASELINE 30 E

CAMP

22,870,000 N

22,865,000 N

190,000 E

200,000 E

210,000 E

N

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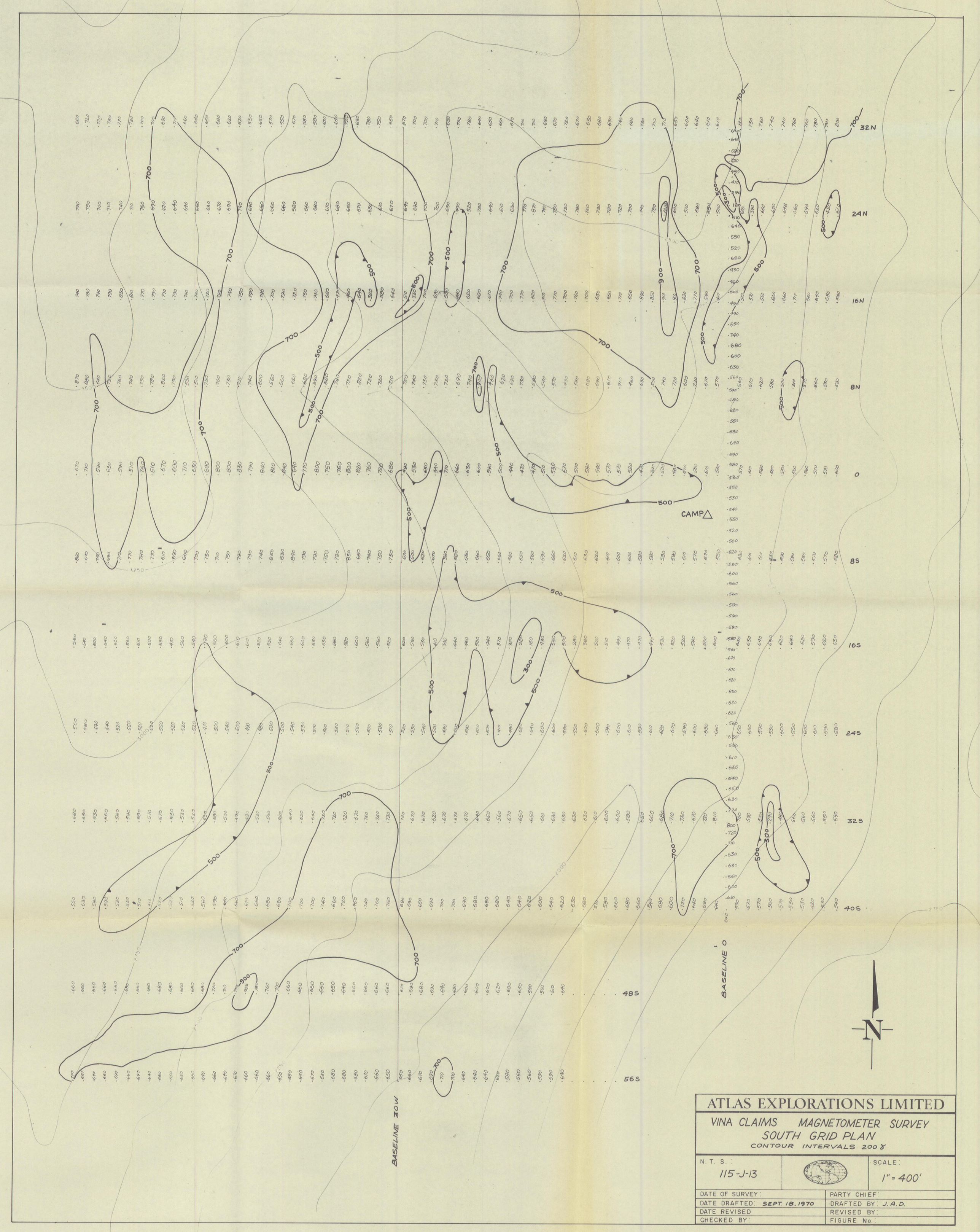
VINA CLAIMS MAGNETOMETER SURVEY
MIDDLE GRID

CONTOUR INTERVAL 100 Gammas

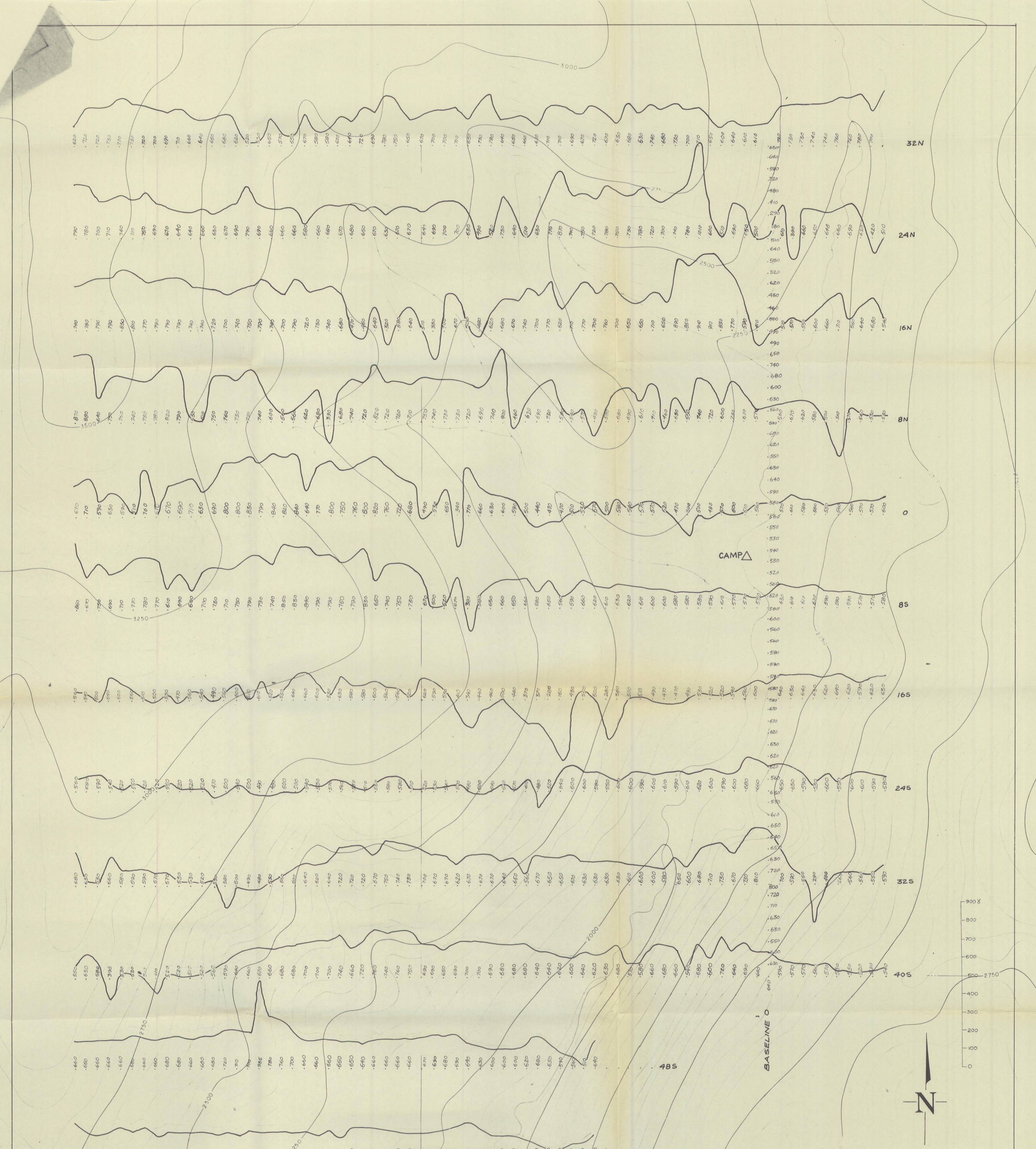
N. T. S.: 115-J-13		SCALE: 1" = 400'
DATE OF SURVEY:		PARTY CHIEF:
DATE DRAFTED: SEPT 22, 1970		DRAFTED BY: J.A.D.
DATE REVISED		REVISED BY:
CHECKED BY:		FIGURE No.:



ATLAS EXPLORATIONS LIMITED

VINA CLAIMS MAGNETOMETER SURVEY
SOUTH GRID PLAN
CONTOUR INTERVALS 200 γ

N. T. S.: 115-J-13		SCALE: 1" = 400'
DATE OF SURVEY:		PARTY CHIEF:
DATE DRAFTED: SEPT. 18, 1970		DRAFTED BY: J.A.D.
DATE REVISED		REVISED BY:
CHECKED BY:		FIGURE No.:



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VINA CLAIMS MAGNETOMETER SURVEY
SOUTH GRID PROFILES

PLAN SCALE 1"=400' PROFILE SCALE 1"=250 gammas

N. T. S.: 115-J-13		SCALE: 1" = 250 γ
DATE OF SURVEY:		PARTY CHIEF:
DATE DRAFTED: SEPT. 18. 1970		DRAFTED BY: J.A.D.
DATE REVISED		REVISED BY:
CHECKED BY:		FIGURE No.: