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NUSPAR RESOURCES LTD.

A Report on a Magnetometer Survey on the Sea Group Seagull Creek Area, Watson Lake M.D., Yukon

Comprising Sea 1-3, 9-22
Seatu 21 and 22

Location 61° 30' N. Lat., 132° 38' W. Long.
NTS Sheets 105-F-7 and 105-F-10

By

T.L. Sadlier-Brown and Andrew E. Nevin

on

Work performed between July 17 and July 26, 1977

September 9, 1977

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Yukon Territory

This report has been examined by the Geological Evaluation Unit and is recommended to the Commissioner to be considered as representation work in the [illegible] of

$ SEE GEOCHEMICAL REPORT.

[illegible] Geologist or

~~Resident Mining Engineer~~

Considered as representation work under Section 53 (4) Yukon Quartz Mining Act.

[illegible] of Yukon Territory

SUMMARY

During July and August of 1977 a magnetometer survey was carried out in conjunction with a geochemical survey on the northern part of the Sea Group located in the Seagull Creek area, Yukon Territory. About 6 line kilometres were read at 50 meter intervals using an Adams Magnetometer.

Magnetic variations in the area tested were found to be minimal and no anomalies were identified. The area is considered to be geologically interesting however and it is recommended that both magnetic and geochemical surveys be extended southward to include the entire claim group.

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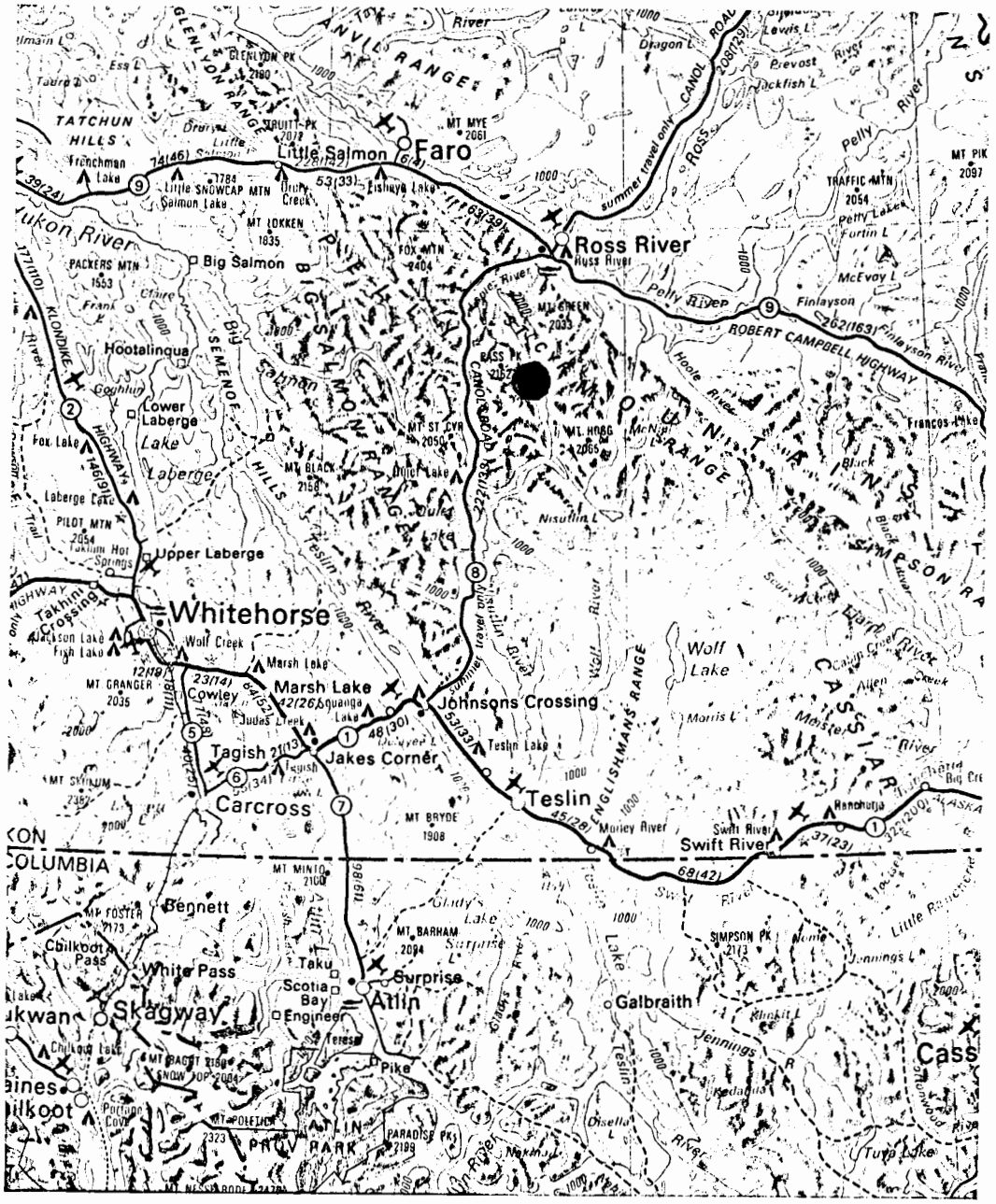
Suite 503 - 134 Abbott St., Vancouver, B.C. Canada V6B 2K4 (604) 683-8271



Claim Group Location Map : Sea Claims

Fig. 1

1.0 INTRODUCTION

1.1 Terms of Reference and Scope of Survey

The work described in this report was carried out as part of a combined geochemical and geophysical program on the Sea and Seatu claims by Nevin Sadlier-Brown Goodbrand Ltd. on behalf of Nuspar Resources Ltd., of Vancouver, B.C.

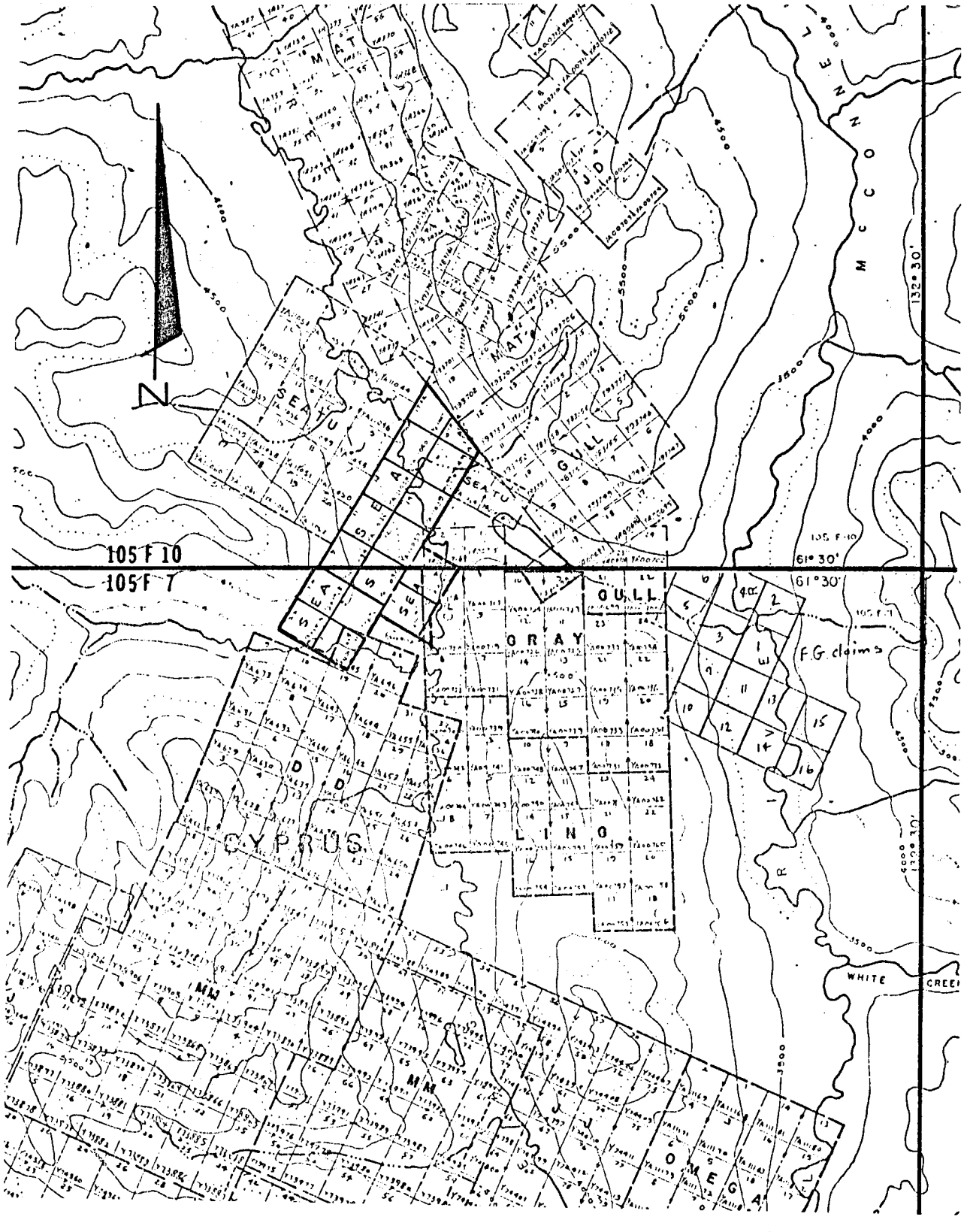
Recent exploration and development on adjacent claims has revealed several occurrences of zinc, copper, and lead which are generally felt to be economically interesting. The Sea Group is located in an area believed to be geologically similar to the terrane which hosts the showings and is at least partly underlain by a magnetic anomaly detected by a government airborne magnetic survey plotted on Geophysical Map 7005 G, "Quiet Lake". As bedrock is virtually all obscured by overburden the initial exploration of the claims is restricted to geophysical and geochemical prospecting methods.

The surveys were carried out on cut and chained picket lines using a metric grid totalling about 6 line kilometres (km). The work was carried out by H.S. Aikins of 305 - 535 Thurlow Street, Vancouver, B.C., M. Cloutier of 1134 Kingsgrove Ave., Richmond, B.C., and T.L. Sadlier-Brown of 503 - 134 Abbott Street, Vancouver, B.C. on the basis of recommendations contained in a report on the claims dated May 9, 1977 by A.E. Nevin, P.Eng. who visited the property in August 1976. The present survey was done from a base camp established on the access road on the north side of Seagull Creek at a point just north of the claim boundary and about a mile northwest of Greyling Lake.

1.2 Claims and Ownership

The property under discussion is held by Nuspar Resources Ltd., of 535 Thurlow Street, Vancouver, B.C. and comprises the following contiguous claims:

Sea 1 - 3 incl.	YA 00971 - 73
Sea 9 - 18	YA 11034 - 43
Sea 19 - 22	YA 00967 - 70
Seatu 21 & 22	YA 11064 - 65



NUSPAR RESOURCES LTD.

SEA CLAIMS

Watson Lake M.D. 105F-7/10

Scale 1" = 1 mile (Jan 1977)

DRAWING 2

1.3 Location and Access

The Sea group lies in and near the valley of Seagull Creek immediately west of Greyling Lake and some 35 miles south of the Community of Ross River. The most convenient access is by helicopter from Ross River but there is a road which leads from the Canol road just south of Groundhog Creek easterly to Seagull Creek then down the east side of the Seagull Valley to the northern part of the claim group. The road was improved during the 1977 field season but is rough and only negotiable by four wheel drive vehicles. It was the access route utilized during the course of the present survey.

1.4 Topography and Physiography

The area surrounding the Sea Claims is mountainous and rugged with ridges exceeding 6000 feet ASL. The Seagull Creek Valley is, at this point, at an elevation of 3600 to 3800 feet ASL and most of the Sea Claims lie within it on the lower slopes generally below about 4500 feet ASL. The central part of the property is flat valley bottom muskeg with numerous ponds, sloughs and swamps while the northern and southern claims lie at the higher elevations on the forested lower slopes.

Drainage over much of the property is poor. Overburden is considered fairly heavy and no outcrop was observed in the survey area. Isolated occurrences have, however, been reported in Seagull Valley nearby.

Forest cover consists primarily of northern black spruce with minor amounts of balsam. Underbrush consisting of dwarf birch, willow, and alder is heavy and tends both to hamper travel on the ground and to make linecutting slow and costly.

2.0 GEOLOGY

The geology of the area was recently mapped by D.J. Templeman-Kluit (see GSC Open File Map 486). Virtually all bedrock on the claim group is obscured by overburden, and consequently the property geology is only speculative and based on

extrapolations from adjacent areas.

The oldest rocks lie in the western part of the area of interest on the ridges west of Seagull Creek. They consist of a sequence of clastic sedimentary rocks, carbonates, and minor volcanics of proterozoic, lower Cambrian, and Cambro-Ordovician ages and are unconformably overlain by Siluro-Devonian dolomite near the west boundary of the claims. The youngest rocks are the Mississippian felsic volcanics which occur immediately east of Seagull Creek as well as in the cirque west of Seagull Creek and southwest of Greyling Lake. They may also underly the northern and extreme southern part of the Sea Group. They are of particular interest as they host the sulphide deposits on the MM claims, south of the Sea Group and on the Mat Claims to the north and east.

3.0 MAGNETIC SURVEY

3.1 Method and Equipment

The magnetic survey was carried out on hand cut and picketed lines turned off at 100 metre intervals from a base line bearing 030° T.

Readings of the relative vertical intensity of the earths magnetic field were taken every 50 metres along the lines using an Adams Fluxgate Magnetometer (Distributed by Adams Marine and Electronics Ltd., Vancouver, B.C.) Corrections for diurnal variations were made by tying in to established base stations several times a day during the course of the survey. Relative readings were multiplied by a factor of 40 to give absolute values in gammas which are presented and plotted (as γ^{-10}) on the map which accompanies this report.

3.2 Observations and Conclusions

The survey area was found to be nearly magnetically smooth. A moderate increase in background intensity from southwest to northeast was observed with average values in the valley in the southwest being aroung 23,400 and those on the slope east of Seagull Creek around 24,200 γ . The anomaly plotted on Geophysical Map 7005 G was not encountered although

a magnetic high of about twice background has been observed on the claim group adjacent to the north. A steady rise in magnetic values from west to east on line 10+00 south near Seagull Creek may indicate the edge of an anomaly inferred from the aeromagnetic map in this area.

4.0 RECOMMENDATIONS

As the Sea claims lie within a geologically important area they are considered to warrant thorough testing. Work to date has been restricted only to the northeastern part of the property and in spite of the fact that no targets for detailed follow-up have so far been revealed it is recommended that both geophysical and geochemical prospecting be extended southward to thoroughly cover the claims lying west of Seagull Creek. Survey work should be done on chain and compass lines turned off at 200M intervals from a southward extension of the base line put in for the present survey.

Conventional prospecting should also be carried out in the area covered by Sea Claims 9, 20, and 22 where outcrop may be present.

Respectfully submitted

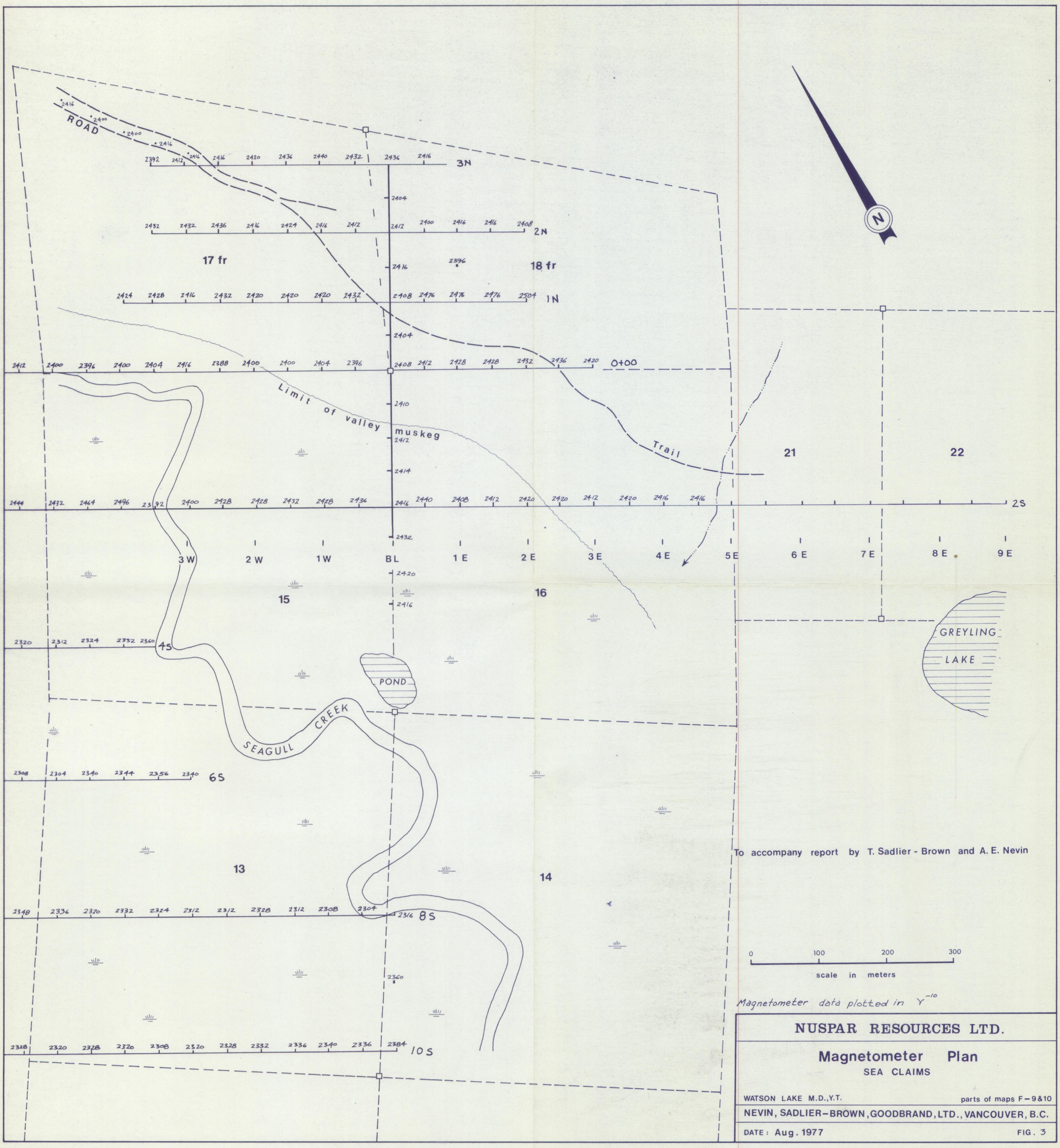
NEVIN SADLIER-BROWN GOODBRAND LTD.

T.L. Sadlier-Brown

Andrew E. Nevin, Ph.D., P.Eng.

PROFESSIONAL ENGINEER
PROVINCE OF BRITISH COLUMBIA
ANDREW E. NEVIN

September 9, 1977



To accompany report by T. Sadlier - Brown and A. E. Nevin

Magnetometer data plotted in γ^{-10}

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Magnetometer Plan

SEA CLAIMS

WATSON LAKE M.D., Y.T. — parts of maps F-9&10

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DATE: Aug. 1977 — FIG. 3