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MINING LANDS SECTION

REPORT

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Geological Reconnaissance

and

Scintolometer Survey

for

WESTFIELD MINERALS LIMITED

Nairn Township Proporty
Sudbury Mining Division
Ontario

bу

Frank P. Tagliamonte, P. Eng.

GEOLOGICAL ENGINEERING SERVICES
29 Beaver Crescent
NORTH BAY, Ontario

November 1978

REPORT

ON

Geological Reconnaissance

and

Scintelometer Survey

COMPANY

WESTFIELD MINERALS LIMITED P. O. Box 2 7 Toronto Dominion Centre TORONTO, Ontario M5K 1A1

PROPERTY and LOCATION

Nairn Township Property
South-East portion of Nairn Township, Sudbury
Mining Division, Ontario.

See also claim location sketch on attached map.

Cla	m	Numbers			Anı	niversary	Date
501317		501322	_	6	23	November	1977
504747	-	504751	-	5	23	November	1977
Total			11				

ACCESS

The claim group is readily accessible by boat on Wabagishik Lake. Good gravel roads connect tourist camps at the head of Wabagishik Lake to highway #17 a distance of about 1 mile.

The village of Nairn centre is about 2.5 miles by road from the head of Wabagishik Lake.

Nairn Centre is about 35 miles West of Sudbury on Highway #17.

TOPOGRAPHY

There are abundant areas of outcrop on the property as can be seen on the attached plan.

Very high quartzite hills with a thin cover of vegetation are present on the Southern 3 claims. These hills have high, sharp, searp edges along their Northern and particularily their Southern margins.

A very high hill on the North-East claim is composed of gabbro with a prominent talus slope on its Southern edge.

The intervening outeropings of quartzite and greywacke are relatively low relief but abrupt exposures.

There are a few very small local bogs on the property. Small lakes and streams are as shown on the plan.

Hardwoods, mainly maple, are the predominant trees on the claims with local patches of birch and poplar. Evergreens are randomly distributed throughout.

PREVIOUS WORK and DEVELOPMENT

There was no field evidence of previous mineral exploration work on the property.

Two summer camps and ancilary facilities are located within the claim group and are shown on the plan.

REFERENCES

GR #35, Nairn and Lorno Township, by R. M. Ginn, Ontario Department of Mines, 1965.

DATA ATTACHED

Geological Reconnaissance and Scintelometer Survey Plan - 1" = 200' =

GENERAL GEOLOGY

All the rock units in Nair counship as well as those in adjacent Lorne township have a prominent North-East trend. Most of the major faults are similarily oriented.

The rocks comprise Procambrian sedimentary units, mainly quartzite, greywacke and conglomerate as well as mafic intrusives of gabbro and diabase.

The sedimentary rocks have been subdivided lithologically into upper, middle, and lower units.

Sedimentary rock units on the Westfield claims lie within the lower unit sequence except for a middle unit greywacke. All the sedimentary rocks strike North-Easterly and dip steeply South-East.

The prominent gabbro unit on the property cross outs the stratigraphy and is postulated to occupy a North-West trending fault structure.

The regional Murray fault traverses Nairn township 3.5 miles North of the property whereas the Espanola fault lies about 1 mile to the South. A Multiple fault system identified as the Lorne faults actually

traverse the central portion of the claim group. They are doubtlessly reponsible for many of the soarp features on the outcrops.

LOCAL GEOLOGY

A gross identification of the geology was obtained symultaneously with the scintelometer survey, supplemented by some spot checking on certain well-exposed outcrops.

Quartzite is the most prevalent rock unit. It is well exposed on the highest hills in the area within the South tier of 3 claims.

The q "tzite is generally massive, usually pink and pale pink in color, and frequently exhibits thin hedding features. Sparse rusty staining suggests a very minor pyrite content. Sharp, steep, prominent searps are common on virtually all of the outcrops.

The greywacke units appear to be mixed in composition, are weakly micaceous, and thinly bedded and foliated. Exposures are numerous but features are masked by shallow overburden, moss, and weathering. Some of the greywacke exposures contain bands of pink quartzite.

The North-East claim contains a prominent meta gabbro exposed on a high hill. The meta gabbro is massive, dark green in color, and medium to fine grained. Other exposures of gabbro occur as dykes cutting the sedimentary rocks. One portion of the dyke in the North-West claim is sheared.

SCINTELOMETER SURVEY - Statistics

Grid Control

Base Lines: Chained and flagged E-W claim lines.

Grid Lines: Chained and flagged N-S claim lines.

Chained and flagged 400' + spaced

N-S lines.

Air photos and air photo blow-ups were used to tie in claim corners and grid lines to topographic check points.

Area Covered

The whole claim group excluding water covered portions.

Station Intervals

50' interval on N-S claim & grid lines.
50' & 100' interval on some E-W claim lines.
Continuous reading traverse along West shoreline of Wabagishik lake as shown on the plan.

personnel

Frank P. Tagliamonte, P.Eng. R. Graham - assistant.

Field Survey Period

5 - 13 October 1978.

Instrument Used

Scintrex GIS 4 Integrating Gamma Ray Spectrometer.

Values Measured

Counts per second - total count

Height of instrument

Waist level.

Number of Stations

900 ±

Number of Rendings

866 + excluding shore line traverse.

Anomalous Readings & Areas

The coverage area appears to be relatively flat radiometrically with a mean of about 160 cps.

Four local areas with single readings above 300 eps were encountered and these are identified by the circled numbers: 1, 2, 3, 4 on the plan.

Some of the more obvious groupings of readings above 200 cps were roughly contoured on the plan.

The 1, 2 and 4 areas appear to suggest locales where anomalous eps are present relative to those eps readings recorded over most of the property.

APPRAISAL

The prominent quartzite rocks, which are well exposed, sparsely wooded, and mantled by thin overburden do not yield anomalous counts in general. A slight eps build-up is evident near scarp edges such as those along the Northerly margins of the quartzite within the Southern tier of 3 claims. These readings are likely proximal to fault traces.

The number 1 area is slightly anomalous relative to the quartzite and is in an area of bedded grey-wacke adjacent to a gabbro dyke or apophysis.

The number 2 area is the broadest area of slightly anomalous readings and overlies greywacke with some quartzite bands.

The number 3 and 4 areas are characterized by virtual one reading highs.

CONCLUSIONS and RECOMMENDATIONS

The scintolometer survey conducted over the property appears to be very sensitive to changes in rock type and everburden thickness as is evident over the gabbre dyke in claim 501321 and ever the small circular bog on the same claim and along the West boundary of claim 504751.

Though there does not appear to be any prominent radiometric anomalies within the survey area, the number 2 and 4 areas may be considered for more detailed radiometric surveying in the event that narrow bods of radioactive material is indicated or present.

MINING

F. P. TAGLIAMONTE

Respectfully submitted

Frank P. Tagliamonto P.Eng.

NORTH BAY, ontario

20 November 1 9 7 8

GEOLOGICAL ENGINEERING SERVICES

29 Boaver Crescent

NORTH DAY , Ontario



DUPLICATE
REVISORIA POR
latural Resources SPS

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TO BE ATTACHED AS AN APPENDIX TO TECHNICAL REPORT
FACTS SHOWN HERE NEED NOT BE REPEATED IN REPORT
TECHNICAL REPORT MUST CONTAIN INTERPRETATION, CONCLUSIONS ETC.

Township or Area	Navin ESTEVELL	Reconnoissance & R 543 MINERALS LIMITE 7, T-D Centre, Toron	o	metric MINING CLAIMS TRAVERSED List numerically
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		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		TOTAL CLAIMS

GEOPHYSICAL TECHNICAL DATA

GROUND SURVEYS -- If more than one survey, specify data for each type of survey

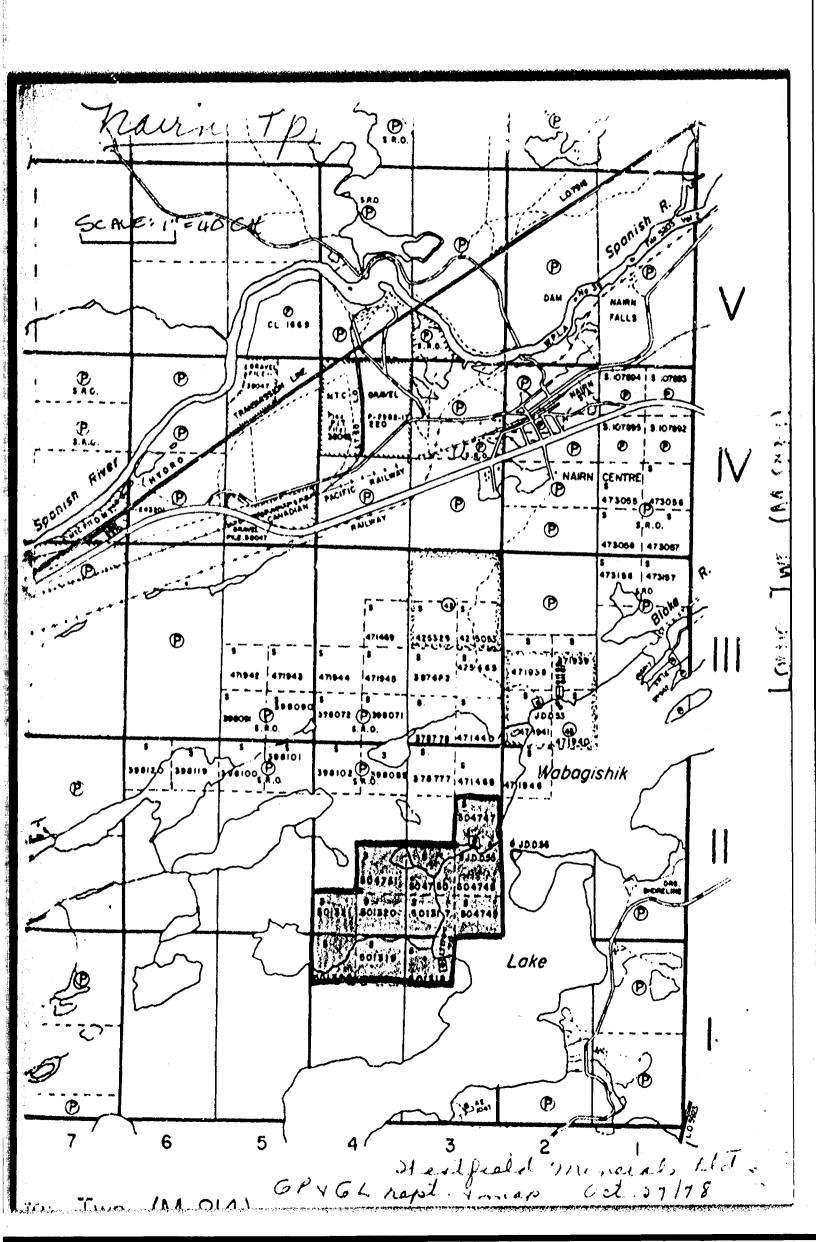
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SELF POTENTIAL	
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Values measured CRS - Tota	1 count.
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Size of detector 1.5" X1.5' (43	cm³)
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Type of survey(s)	
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(speci	fy for each type of survey)
	Line Spacing
	Over claims only



SEE ACCOMPANYING MAP (S) IDENTIFIED AS NAIRN-0015-A1-1

LOCATED IN THE MAP CHANNEL IN THE FOLLOWING SEQUENCE (X)

