



Ministry of Energy & Mines Energy & Minerals Division Geological Survey Branch

ASSESSMENT REPORT TITLE PAGE AND SUMMARY

TITLE OF REPORT [type of survey(s)] ORTHO PHOTO MOSAIL MAP PRE PARATION	\$ TOTAL COST 25, 924.51
AUTHOR(S) ARNE O BIRKELAND P. ENG. SIGNATURE(S)	
NOTICE OF WORK PERMIT NUMBER(S)/DATE(S)	
STATEMENT OF WORK - CASH PAYMENT EVENT NUMBER(S)/DATE(S)	+248734 2008/Nov/27
PROPERTY NAME SLOTIA CLAIM NAME(S) (on which work was done) SLOTIA TENURE NUMBER	
CLAIM NAME(S) (on which work was done) SCOTIA TENURE NumBER	593613,593898, 514510,514511.
COMMODITIES SOUGHT Zn, Pb, Cu, Ag, Au	
MINERAL INVENTORY MINFILE NUMBER(S), IF KNOWN 1037 007	
MINING DIVISION SKEENA NTS 103 7	146
ATITUDE 54° 05 " LONGITUDE 129 ° 44	
OWNER(S)	
1) GEO MINERALS LTD (210426) 2)	
MAILING ADDRESS 1220 - 789 W. PENDER ST	
VANCORVER, BC, VGC 1HZ	
OPERATOR(S) [who paid for the work]	
1) GEO MINERALS LTD 2)	
MAILING ADDRESS	
54ME	
PROPERTY GEOLOGY KEYWORDS (lithology, age, stratigraphy, structure, alteration, mineraliza The Scotia Property to underlain by Paleogogy Mafic T	to felse volume vocks of the
Scotia-Quall Metamo uphic Compax. At the Albert Fore, Massive Contact of a felsic quess with Mattiple sulphide lenses U.5 to:	21 on in which have been intersected
in dvilling over a 205 m stripe length over a vertical vange	of 95m.
REFERENCES TO PREVIOUS ASSESSMENT WORK AND ASSESSMENT REPORT NUMBERS	
EMPR ASS RPT 9302, 10332, 13794, 16795, 25462, 2	

TYPE OF WORK IN THIS REPORT	EXTENT OF WORK (IN METRIC UNITS)	ON WHICH CLAIMS	PROJECT COSTS APPORTIONED (incl. support)
GEOLOGICAL (scale, area)			
Ground, mapping			
Photo interpretation			
GEOPHYSICAL (line-kilometres)			
Ground			
Magnetic			
Electromagnetic			
Induced Polarization			
Radiometric			
Seismic			
Other			
Airborne			
GEOCHEMICAL (number of samples analysed for)			
Soil			
Silt		 	
Rock			
Other			
DRILLING (total metres; number of holes, size)			
Core			
Non-core			
RELATED TECHNICAL			
Sampling/assaying			
Petrographic			
Mineralographic			
Metallurgic			
PROSPECTING (scale, area)			
PREPARATORY/PHYSICAL			
Line/grid (kilometres)			
Topographic/Photogrammetric (scale, area) <u>/ バズ,のゆ</u> ; /: 25	00; 8935 Ha	ALL	\$ 23, 924.51
Legal surveys (scale, area)			
Road, local access (kilometres)/trail			
Trench (metres)		{	
Underground dev. (metres)			
Other			
		TOTAL C	COST \$23 924.51

BC Geological Survey Assessment Report 30579

ASSESSMENT REPORT ORTHOPHOTO MOSAIC MAP PREPARATION

SCOTIA PROPERTY SCOTIA RIVER AREA, SKEENA MD

NTS: **103I** Lat/Long: **54° 05' 37" N, 129° 40' 16" W**

Report For **Geo Minerals Ltd.**

Report Compiled By **Arnex Resources Ltd.**

Report Author A. O. Birkeland, P.Eng.

Report Date February 20, 2009

Scotia2009AR090220

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Appendix C – Scotia-A.dwg to Scotia-C.dwg.; Topo-5K-1.dwg to Topo-5K-8.dwg

1. SUMMARY

The Scotia Prospect is located in the Scotia River area, approximately 40 km southeast of Prince Rupert in west central British Columbia. The Scotia group of claims consists of four cell mineral claims that total 8935.4 hectares in area.

Infrastructure in the area is good, with all of the main valleys in the area accessible by logging roads. A rail line is located along the north bank of the Skeena River, and electric power is available on the south bank of the Skeena River. Current access is by helicopter.

The property lies within a belt of Paleozoic metavolcanic and metasedimentary rocks trending approximately north-south between the Skeena River to the north and the Ecstall River to the south. The volcanic rocks have been subjected to upper amphibolite grade metamorphism during three periods of folding and are now represented by amphibolites, gneisses and schists. The lithologies underlying the Scotia property belong to a metavolcanic unit which is intruded by the Ecstall granite along the west side of the property, and by several stages of dioritic to pegmatitic dykes.

North and south of the Ecstall River, several occurrences of VMS-type zinc (+/- copper-lead-silver-gold) are known occur in what is called the "Ecstall Belt".

The Albere Zone at the Scotia Property was discovered by Texas Gulf Sulphur in 1958 during a regional reconnaissance program. The Albere Zone is characterized by coarsely crystalline, massive to semi-massive sphalerite with lesser amounts of pyrite, galena, pyrrhotite, magnetite and chalcopyrite. Since that time, several exploration programs, including diamond drilling, have been carried out on the property.

Orthophoto – Topographic Base Maps were compiled during November, 2008 and are presented in this Assessment Report.

2. INTRODUCTION AND TERMS OF REFERENCE

2.1 Terms of Reference

Geo Minerals Ltd. ("Geo Minerals") has authorized Arne O. Birkeland, P.Eng. of Arnex Resources Ltd. ("Arnex") to act in the capacity as an independent Qualified Person to supervise a base map preparation program and to author an Assessment Report on the Scotia mineral occurrence (the "Property") located in the Skeena Mining Division, Scotia River Area, northern BC.

2.2 General

The objective of the Assessment Report is to document the compilation of orthophoto mosaic topographic mapping conducted on the property be Eagle Mapping Ltd.

The mapping program was carried out by Eagle between the dates of Nov, 13 to Nov, 24, 2009. Total cost of the of the orthophoto map preparation was \$24,313.01 as reported in Schedule A, Statement of Expenditure. A Statement of Mineral Exploration and Development Work, (Appendix B), Event Number 4248734, in the amount of \$23,924.51 was filed on Nov 27, 2009.

Sources of information and data used in the preparation of the mapping include:

- Ministry of Energy and Mines ("MEM") Trim data;
- MEM colour airphotos flown June 08, 2008.

3. PROPERTY INFORMATION

3.1 Location and Access

The Scotia Prospect is located in the Scotia River area, approximately 40 km southeast of Prince Rupert in west central British Columbia (Figure 1). The property lies within a belt of metavolcanic and metasedimentary rock trending approximately north-south between the Skeena River to the north and the Ecstall River to the south (Figure 2). Access is by helicopter from Prince Rupert or by barge from Kwinitsa on the north shore of the Skeena River to the Scotia River logging camp on the south shore of the Skeena River, owned by Interfor (International Forest Products) and operated by Bear Creek Contracting of Terrace, BC (Figure 2).

3.2 Property Description and Ownership

The Scotia group of claims consists of four cell claims totaling 4,988 hectares that were owned by Geo Minerals Ltd, owner number 210426.

Tenure information is contained in Table 1. The claims are plotted on Figure 3, Scotia Claims.

Table 1

Tenure Number	Owner	Good To Date	Area Ha
593613	210426 (100%)	2009/Aug/31	7930.3
593898	210426 (100%)	2009/Nov/05	379.2
514510	210426 (100%)	2009/Nov/05	379.4
514511	210426 (100%)	2009/Nov/05	246.4
_			·
Totals	4 Claims		8935.4

4. ORTHOPHOTO BASE MAP PREPARATION

Orthophoto base maps were prepared for the entire property using a combination of colour aerial photography and Trim, and for selected areas, orthophotographically corrected topographic data. Detailed maps with 10 metre contour intervals are contained in Appendix C, Scotia-A.dwg to Scotia-C.dwg. Property scale maps with a 20 metre contour interval are contained in Appendix C, files Topo-5K-1.wdg to Topo-5K-8.dwg.

5. CONCLUSIONS

The property scale orthophoto topographic maps with contour interval of 20 metres and the more detailed selected orthophoto topographic maps with contour interval of 10 metres will be very useful as base maps for plotting data acquired by both historical and future exploration programs.

Assessment Report dated this 20th day of February, 2009 by

"signed" Arne O Birkeland

Arne O. Birkeland, P. Eng.

6. REFERENCES

Alldrick, D.J. and Gallagher, C. S. Geology of the Ecstall Belt, Coast Mountains, BC. Ministry of Energy and Mines, GSB.

Birkeland, A.O. and Lindinger, L. 1998. Diamond Drilling Report on the Albere Zone, Scotia Property. Arnex Resources Ltd.

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Money, D.P. 1989. Scotia Project Review. Falconbridge Limited.

Myers, R.E. and Moreton, E.P. 1981. Final Report on the Geology, Geophysics and Diamond Drilling Programmes, West Scotia Property. Unpublished Kidd Creek Mines Ltd. report. GSB Assessment Report 10,332.

7. CERTIFICATE OF AUTHOR

ARNE O. BIRKELAND, P.ENG.

Arnex Resources Ltd.
2069 Westview Drive
North Vancouver, BC, Canada, V7M 3B1
Telephone/Fax: (604) 904-0606
Email: arnex@shaw.ca

I, Arne O. Birkeland, P.Eng., do hereby certify that:

1. I am currently employed as a Geological Engineer by: Arnex Resources Ltd.

2069 Westview Drive, North Vancouver, British Columbia, Canada, V7M 3B1

- 2. I graduated with a Bachelor of Science Degree in Geological Engineering from the Colorado School of Mines in 1972. I am a 1969 graduate of BCIT obtaining a Diploma of Mining Technology.
- 3. I have been a practicing Professional Engineer registered with the Association of Professional Engineers and Geoscientists of British Columbia since 1975, Registration Number 9870. I am a member of the Canadian Institute of Mining, Metallurgy, and Petroleum, Geological Society Member Number 90102. I am a member of the Association of Mineral Exploration of British Columbia.
- 4. I have worked as a geologist for a total of 35 years since my graduation from university. My primary employment since 1966 has been in the field of mineral exploration and development. My experience has encompassed a wide range of geological environments including extensive experience in classification of deposit types as well as considerable familiarization with geochemical and geophysical survey techniques and diamond drilling procedures. Since 1990, my primary involvement in exploration activities has been focused on the BC Cordillera, primarily exploring for Volcanogenic Massive Sulphide and Porphyry type targets.
- 5. I am responsible for the preparation of the report titled Assessment Report, Scotia Property, Skeena Mining Division, BC relating to the Scotia Property. I have personally conducted and supervised the exploration fieldwork carried out by Arnex Resources Ltd. during 1997, 1998, 1999, 2002, 2005 and 2006, and the current base map preparation program on the subject Scotia Property. Arnex Resources Ltd. currently acts as an independent consultant and contractor for Geo Minerals Ltd.

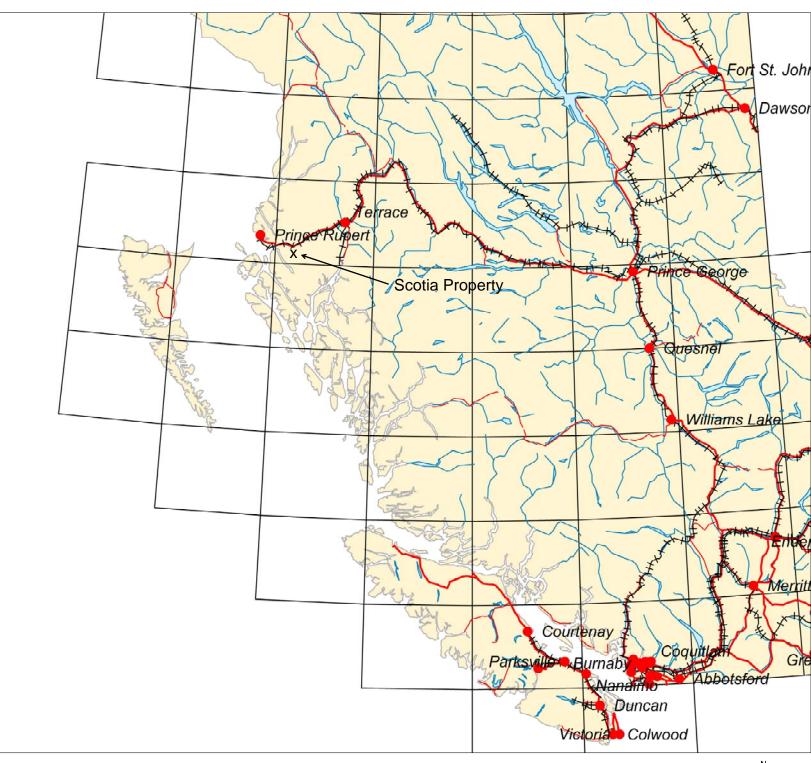
Dated at North Vancouver, British Columbia, this 20th day of February, 2009

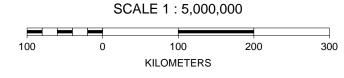
"signed" Arne O Birkeland

Arne O. Birkeland, P. Eng.

President, Arnex Resources Ltd.

Scotia Property - Location Map

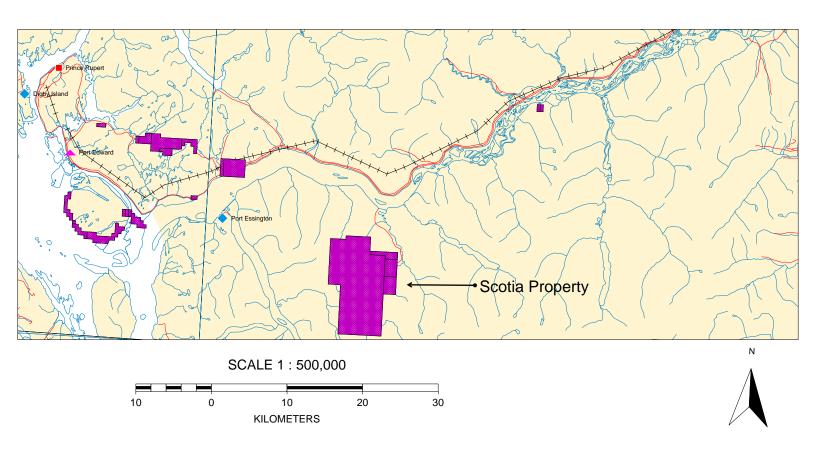




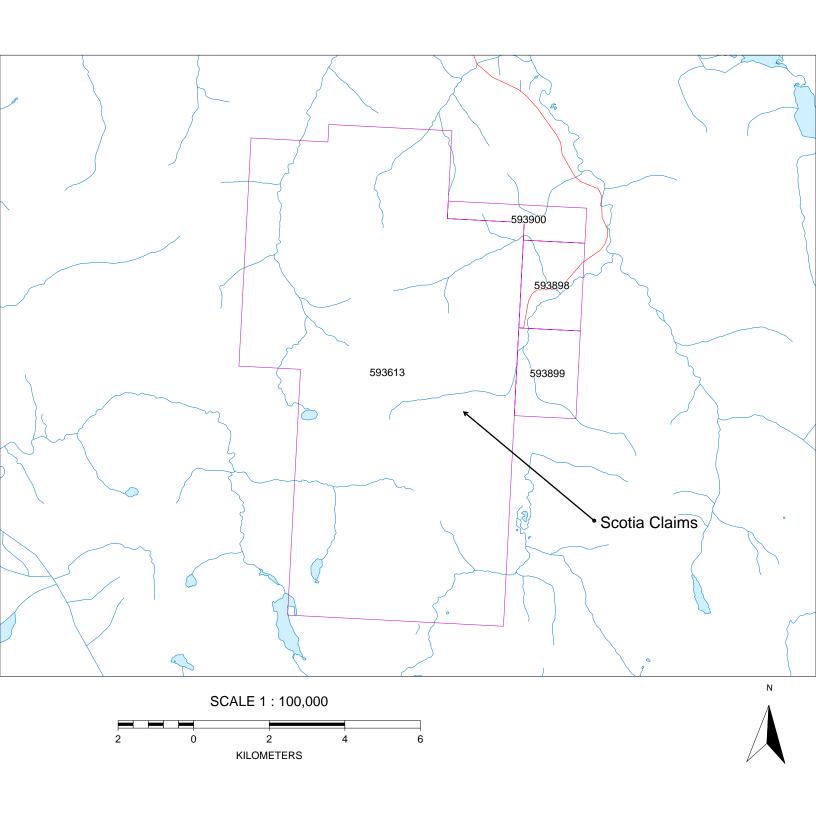


Compiled By: Arnex Resources Ltd.

Scotia Property - Property Location Map



Scotia Claim Map



Scotia Project Appendix A - Statement of Expenditure Re: Orthophoto Map Preparation

Prepared By: Arnex Resources Lt
Prepared For: Geo Minerals Ltd

Date: 27-Nov-08

Orthophoto Mosaic Maps

Description	Total Cost
Orthophoto Map Preparation - Eagle Mapping	\$16,335.00
Assessment Report	\$3,800.00
Management Fee @ 15%	<u>\$3,020.25</u>
GST @ 5%	<u>\$1,157.76</u>
Total Payments	\$24,313.01







