LOG NO: 1221	RD.
ACTION:	
FILE NO: 87-912	-16654
	9/88

ASSESSMENT REPORT FOR

GEOPHYSICAL AND GEOLOGICAL

WORK DONE ON THE



TLITI GROUP

N. T. S. 93 N/05W

OMINECA MINING DIVISION

55° 23' N //" 125° 48'2"W Situated at Coordinates:

Owner Operator: NORANDA EXPLORATION COMPANY, LIMITED (NO PERSONAL LIABILITY)

GEOLOGICAL BRANCH

ASSESSMENT REPORT

November, 1987

Gordon Maxwell Lyndon Bradish

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SUMMARY:

The TLITI group was staked to cover a series of attractive airborne E.M. anomalies, which lie in favourable felsic and intermediate volcanics of the Upper Triassic-Lower The airborne anomalies were detected on an Sitlika Assemblage. Aerodat survey contracted by Noranda Exploration and flown in June of 1985. Following initial reconnaissance in 1985, detail grids were established in October of 1986 to facilitate HLEM, Mag and geologic surveys. Most of the targets outlined were found to be Two conductive associated with graphitic argillite horizons. horizons appear to be hosted by favourable intermediate to felsic volcanics, which may host volcanogenic massive sulphides.

INTRODUCTION:

The TLITI claims were staked by Noranda Exploration personnel to cover a series of airborne E.M. anomalies detected on an Aerodat airborne survey flown in June of 1985. Preliminary recon geophysical and geologic follow-up was conducted in late September of 1985. The Tliti 2 and 3 claims were staked on October 7 and 8 of 1986. During the period of October 10-15, 1986, detail grids were established, in the area of the Tliti and Lorne anomalies, to facilitate further HLEM, Mag and geologic surveys.

LOCATION AND ACCESS:

The property is situated approximately 16 kilometers southeast of the village of Takla Landing in central B. C. The claims are located on the east shore of Takla Lake, straddling Tliti Creek. Access to the property is via boat to Tliti Creek or by helicopter to higher elevations on the property. The B.C.R. Dease Lake extension runs along the east side of Takla Lake cutting through the western portion of the claims.

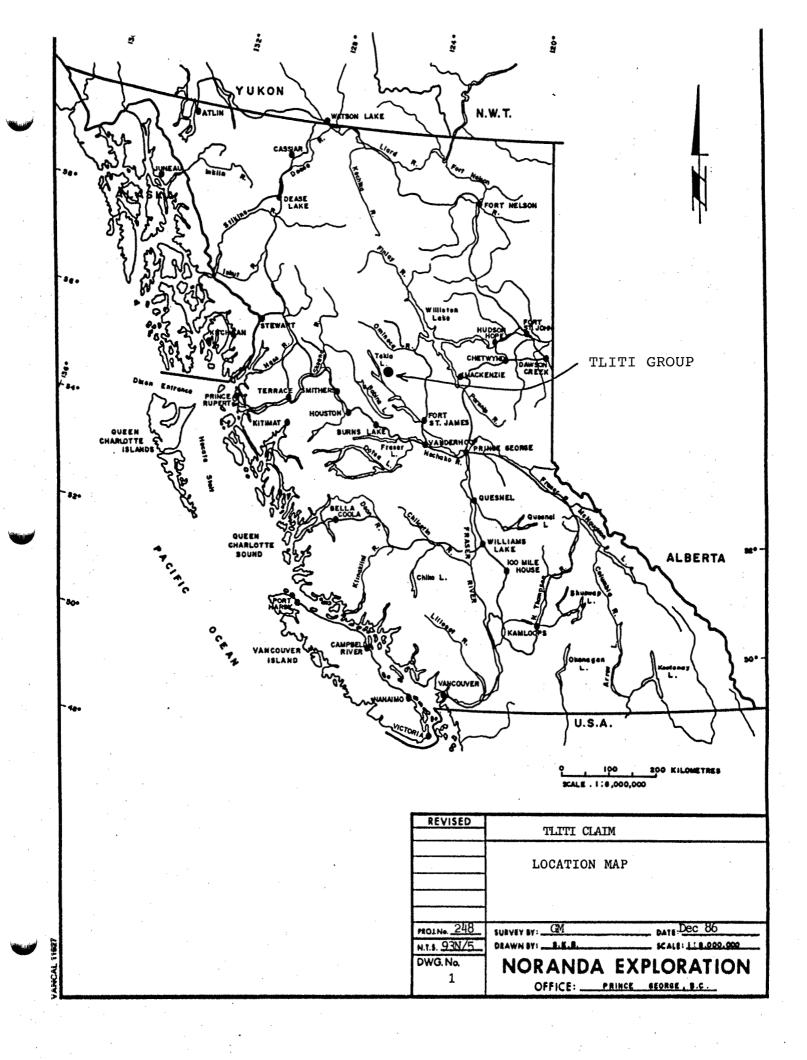
CLAIM STATISTICS:

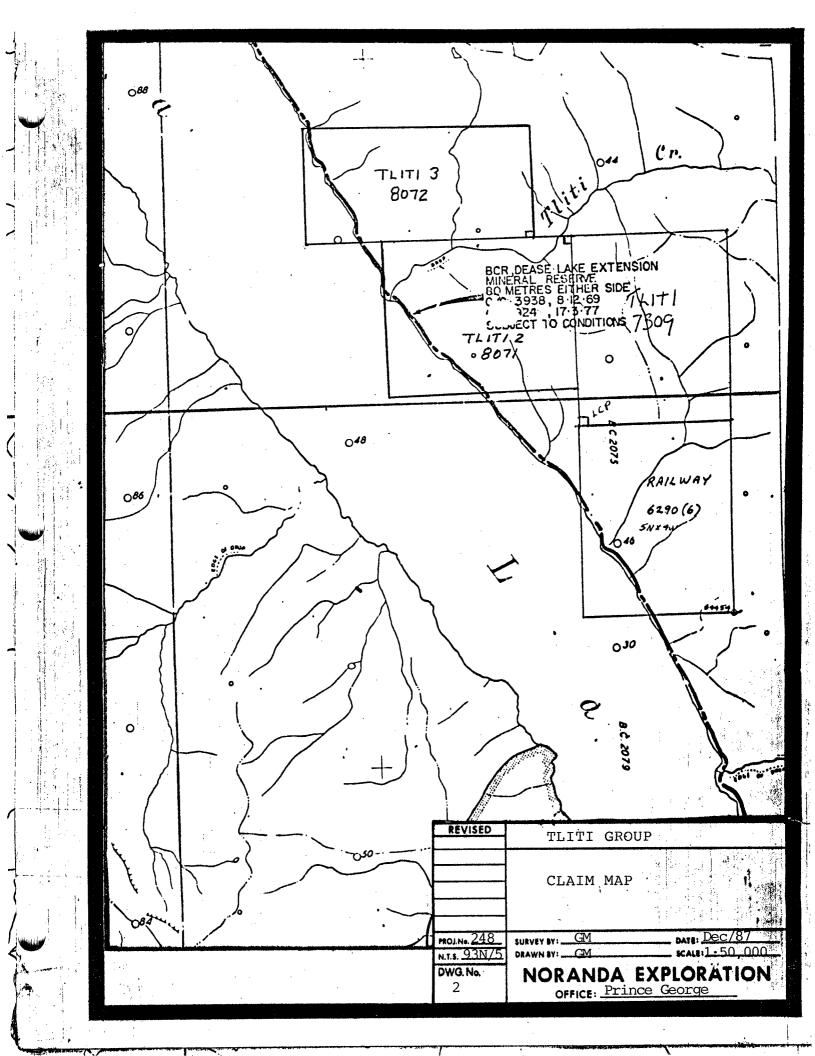
Name	# Units	Record 排	Record Date	Owner
Tliti	20	7309	Sept 23, 1986	Noranda
Tliti 2	20	8071	Nov Ø3, 1986	Noranda
Tliti 3	18	8Ø72	Nov 03, 1986	Noranda

TOPOGRAPHY AND VEGETATION:

The claims are situated on a steep, west facing, heavily wooded slope, where elevations range from lake level of 687 meters to 1400 meters. There are very few natural meadows except at the highest elevations, which makes helicopter access difficult.

The heavily wooded slopes consists mainly of spruce and balsam with a few areas nearer Takla Lake which are pine covered. The underbrush is mainly thick alder and devil's club.





REGIONAL GEOLOGY:

The area is underlain by Upper Triassic to Lower Jurassic volcanic and sedimentary rocks of the Sitlika Assemblage which been regionally metamorphosed to greenschist facies (Paterson, 1974). This assemblage is composed mainly of well foliated andesitic to rhyolitic pyroclastics and flows with lesser amounts of greywacke, siltstone and phyllite. The Sitlika volcanics are characterized by local development of sericite, quartz-sericite and chlorite schists. The Takla Fault separates the Sitlika rocks from the Tertiary Sustat Group to the west. Permian Cache Creek rocks to the east are separated Sitlika by the Vital Fault and a serpentinite melange. The Cache Creek Group is bounded to the east by the Pinchi Fault and the Jurassic Hogem Batholith. (Figure 3).

GRIDS:

Two separate grids were established on the basis of the 1985 reconnaissance geophysics. The Lorne Grid consists of $1.05\,$ km of cut baseline at an azimuth of 155 degrees and $10.5\,$ km of flagged wing lines. Stations are marked every 25 meters and line spacing is either $100\,$ or $150\,$ meters. The Tliti Grid is made up of $3.35\,$ km of flagged grid line controlled by $200\,$ meters of cut baseline at a $155\,$ degree azimuth.

LOCAL GEOLOGY:

LORNE GRID:

The Lorne Grid is underlain mainly by a thick sequence of moderately foliated andesite to strongly foliated chlorite schist. The bedding and schistosity generally trend 145 degrees to 175 degrees and dip steeply to the east. The andesite and chlorite schists are generally intercalated with graphitic argillite and pyritic quartz sericite schist. These narrow pyritic horizons are believed to be felsic volcanic exhalative horizons. A large granodiorite intrusive cuts the north west portion of the grid. This intrusive is outlined by a sudden low in the magnetics to the north of the Lorne Grid.

TLITI GRID:

The Tliti Grid is underlain by an intercalated sequence of felsic to basic volcanics and graphitic argillite. These horizons generally trend 155 degrees to 175 degrees and dip steeply to the east. The felsic volcanics include massive to moderately foliated dacite to rhyolite flows, tuffs, lapilli tuffs and narrow pyritic sericite schist horizons. The intermediate to mafic volcanics include vesicular basalt flows, massive to moderately foliated and strongly foliated chloritic schist.

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GEOPHYSICS:

INSTRUMENTATION:

The SE-88 system is a Horizontal Loop EM system manufactured by Scintrex of Concord, Ontario. This unit differs from the normal HLEM systems such as the MaxMin II in that it measures without regard to phase the ratio of signal amplitudes between a reference frequency of 112 Hertz and individual signal frequencies of 337Hz., 1012Hz. and 3037Hz. The signal difference is integrated over a period of 8 or 16 seconds in order to improve the signal to noise ratio. The SE-88 data is plotted in profile form at a map scale of 1:5000 and a profile scale of 1 cm = 20%. The survey employed a 100 meter coil separation with readings recorded at 25 meter intervals.

The magnetometer surveyed employed a field and base station package also manufactured by Scintrex of Concord, Ontario. The MP-3 system records the Total Magnetic Field with an accuracy of 1 to 2 nano Teslas. All applicable corrections have been applied to the data to maintain this accuracy. Readings were recorded at both 12.5 and 25 meter intervals.

DISCUSSION OF RESULTS:

Lorne Grid:

The magnetic data is presented in both a smoothed contour form with contour intervals of 50 nano Teslas and in a profiled form with an amplitude scale of 1 cm = 1000 nT and the zero 'base' or line level of 1050 nT. The datum level for this survey was selected at 57,000 nT.

The SE-88 EM survey has defined numerous zones of bedrock conductivity throughout the gridded area. On the west side of the Baseline the detected conductivity appears to be broad and poorly defined not unlike a wide graphitic package. The conductor axis closest to the baseline has both EM and magnetic characteristics that indicate a geological contact.

On the east side of the baseline there are four distinct. narrow zones of bedrock conductivity. Of these the west zone a high conductivity of up to 45 Siemens and the magnetic shows a closely associated magnetic anomaly that due to its meandering nature is possibly not sourced by the the zone has a lower conductivity but The east conductor. definite magnetic signature and it is apparent that the magnetic and EM sources are one and the same. Interior to these west zones is a central conductor(s) whose conductivity significantly lower than its adjacent zones. Typically there no magnetic response associated with the zone except 7000N/3450E where a distinct magnetic dipole is observed.

Tliti Grid:

The SÉ-88 EM survey mapped a number of conductors however the emphasis was in identifying and mapping the two main zones which are detected in the central portion of the grid. The west zone is poorly defined in part due to its low conductivity and proximity to the east conductor. The south extent of this conductor on Lines 4800N, 4900N and 5200N does have a direct magnetic expression.

The east conductor axis is of higher conductivity (20 Siemens on Line 5000N) and appears to be a very discrete zone of bedrock conductivity. North of and including Line 5000N there is a strong magnetic anomaly directly associated with the conductive source. Peripheral to these two conductors there are two additional zones that are mapped on lines that extend on a 'recon' basis to the west and east of the grid.

CONCLUSIONS:

The most promising target on the Lorne Grid is the eastern most conductive horizon which appears to be hosted by a package of intercalated andesite and felsic volcanics. The remaining targets on the Lorne Grid appear to be associated with graphitic argillite horizons.

The target of most interest on the Tliti Grid is the eastern most conductor which appears to be hosted in a felsic volcanic horizon within a thick sequence of andesite and chlorite schists.

RECOMMENDATIONS:

Both targets warrant testing using a single diamond drill hole in each.

APPENDIX I

STATEMENT OF COST

GEOLOGICAL & GEOPHYSICAL REPORT

a)	Wages	,
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b)

c)

ct)

>

HLEM survey Mag survey Linecutting Geology	3 mandays @ \$125/day	W-1-10-1	1,000 375 500 800 2,675
Food & Accommod	dations:		
	20 mandays @ \$50/day	\$	1,000
Transportation	y n		
Bell 206 hel	licopter	\$	1,000
Cost of Report	Preparation:		
Author		\$	200
Drafting Typing			100 50
. À !·· > ! ^[2]	Total	\$	350

TOTAL \$ 5,025

APPENDIX I

STATEMENT OF COST COST BREAKDOWN

a)	HLEM Survey:		
	Wages — 8 mandays @ \$125/day (K. Lilli — Oct 10—13, 1986) (L. Randall — Oct 10—13, 1986)	\$	1,000
	Food & Accommodations Transportation		400 500
	Report Preparation	\$	150 2,050
b)	Mag Survey:		
	Wages — 3 mandays @ \$125/day (B. Kirby — Oct 10—13, 1986)	\$	375
	Food & Accommodations Transportation		150 125
	Report Preparation	**********	50
c)	Geology:	\$	700
	Wages - 4 mandays @ \$200/day (G. Maxwell - Oct 10-13, 1986)	\$	800
	Food & Accommodations Transportation		200 125
	Report Preparation	••••	150
d)	Linecutting:	\$	1,275
	Wages - 5 mandays @ \$100/day (B. Elasoff - Oct 10-12, 1986) (D. Rozek - Oct 10-11, 1986)	\$	500
	Food & Accommodations		250
	Transportation	\$	250 1,000

APPENDIX II

STATEMENT OF QUALIFICATIONS

- I, Gordon Maxwell of Prince George, Province of British Columbia, do hereby certify that:
 - 1. I am a Geologist residing at 5905 Rideau Street, Prince George, British Columbia.
 - 2. I am a graduate of the University of Manitoba with an Hons. B. Sc. (geology).
 - 3. I am a member in good standing of the Canadian Institute of Mining and the Prospector's and Developer's Association.
 - 4. I presently hold the position of Project Geologist with Noranda Exploration Company, Limited and have been in their employ since 1980.

G/ Maxwell

APPENDIX I

STATEMENT OF QUALIFICATIONS

- I, Lyndon Bradish of Vancouver, Province of British Columbia, do hereby certify that:
 - 1. I am a Geophysicist residing at 1826 Trutch Street, Vancouver British Columbia.
 - 2. I am a graduate of the University of British Columbia with a B.Sc. (geophysics).
 - 3. I am a member in good standing of the Society of Exploration Geophysicists, Canadian Institute of Mining and the Prospector's and Developer's Association.
 - 4. I presently hold the position of Division Geophysicist with Noranda Exploration Company, Limited and have been in their employ since 1973.

L. Bradish.

Para die

