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**Logistical Report on the Exploration Program**

**Linecutting and Geophysical Surveys**

**Fall 2004 to Spring 2005**

**Merico Ethel Property,**

**Elk Lake, Ontario**

**Larder Lake Mining Division, Ontario**

**James and Tudhope Townships**

**2.30793**

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## 1.0 Introduction

The Merico Ethel Property is located approximately 5 km northeast of Elk Lake, Ontario (Figure 1). The property is held under an option agreement between Temex Resources Corp. ("Temex") and JKate Explorations Inc. Commencing in mid October 2004, Temex conducted an exploration program consisting of linecutting, magnetometer and induced polarization (IP) geophysical surveys. The purpose of this report is to document the work and timeframes in which work was performed. More detailed information on the survey specifications and interpretations are included in underlying reports from the geophysical contractor.

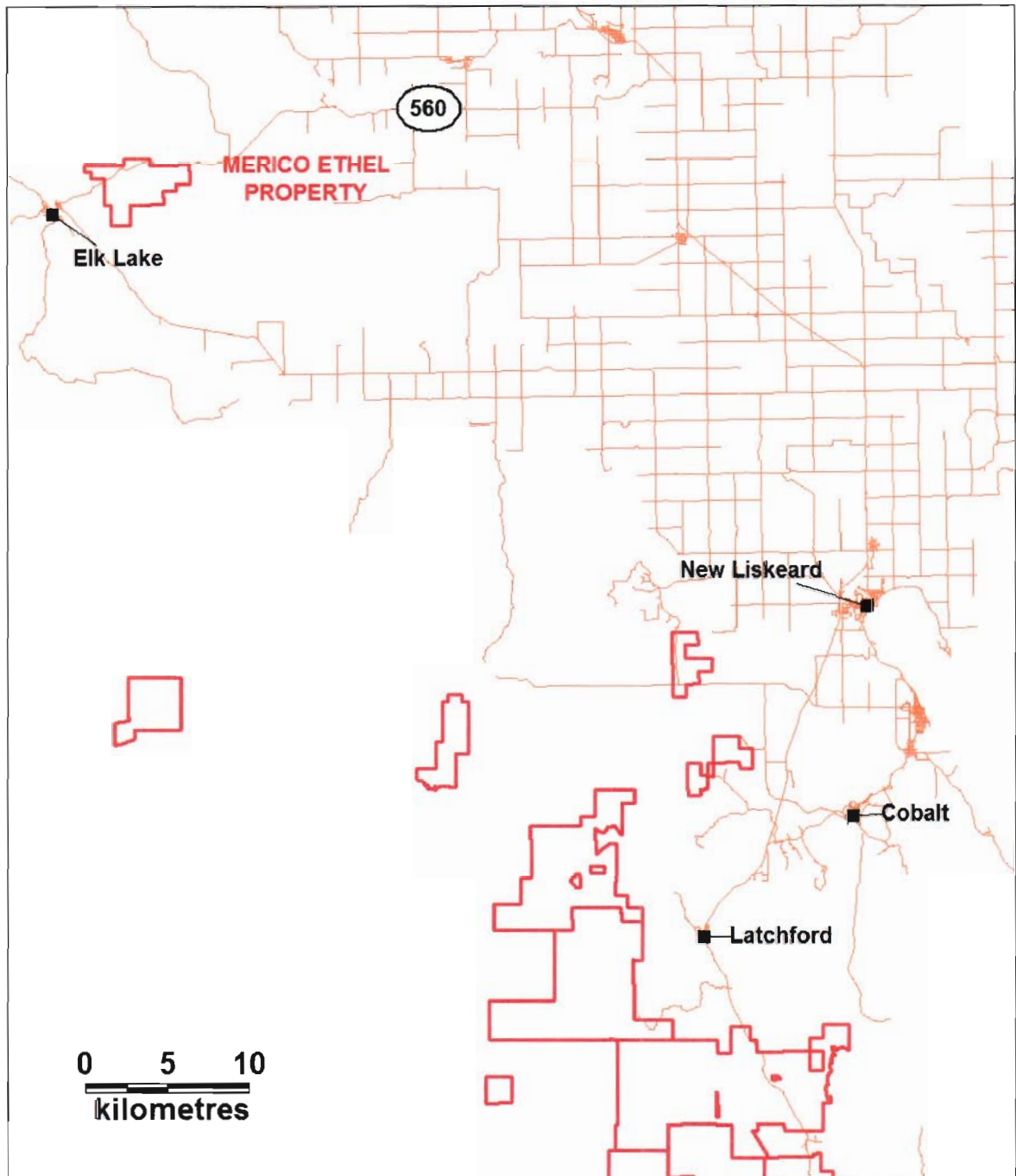
## 2.0 Property Location, Access and Claim Disposition

The property, located primarily in James and Tudhope Townships, is easily accessed by Highway 560 which passes through the northwestern portion of the claims. A network of trails can be used to access other portions of the claims.

The Merico Ethel property consists of 29 mining claims comprising 87 units for a total land area of 3480 acres, as listed in the following table and illustrated in Figure 2. The claims are all recorded in the name of JKate Explorations Inc.

Claim	Township	G-Plan	Units	Recorded	Claim	Township	G-Plan	Units	Recorded
1118625	Tudhope	G-3724	4	1994-Oct-21	3011640	Tudhope	G-3724	4	2004-Sep-28
1202448	Tudhope	G-3724	1	1994-Apr-26	3011641	James	G-0225	2	2004-Sep-28
1202555	Tudhope	G-3724	1	1994-Apr-26	3011642	Tudhope	G-3724	1	2004-Sep-28
1212261	Tudhope	G-3724	1	1996-Sep-11	3011643	James	G-0225	1	2004-Sep-28
1214024	James	G-0225	1	1996-May-09	3011644	Truax	G-0251	4	2005-Apr-04
1217771	Tudhope	G-3724	1	1996-Sep-24	3011699	Tudhope	G-3724	2	2004-Nov-12
1217772	Tudhope	G-3724	1	1996-Sep-24	3013891	James	G-0225	6	2004-Nov-23
1217784	Tudhope	G-3724	7	1997-Jun-05	3013892	James	G-0225	6	2004-Nov-23
1222053	Tudhope	G-3724	2	1997-May-15	3013894	Tudhope	G-3724	6	2004-Dec-02
3006674	Tudhope	G-3724	1	2004-Jul-21	3013896	Tudhope	G-3724	3	2004-Dec-15
3006676	James	G-0225	2	2004-Jul-21	3013897	Tudhope	G-3724	8	2004-Dec-15
3006678	James	G-0225	6	2004-Jul-06	3013907	Tudhope	G-3724	2	2004-Nov-12
3006679	Tudhope	G-3724	3	2004-Jun-08	3013909	James	G-0225	4	2004-Nov-23
3006748	Tudhope	G-3724	2	2004-Jun-08	4203532	Tudhope	G-3724	4	2004-Dec-29
3007407	James	G-0225	1	2004-Mar-17					

**Figure 1. General Location Map**



### **3.0 Work Program**

Temex commenced a program of linecutting, magnetometer and induced polarization (IP) geophysical surveying on the Merico Ethel Property in October 2004. The work was conducted in two phases, the first between late October to late December, 2004 and the second from late March to late May, 2005.

#### **3.1 Linecutting**

Linecutting of the baseline and initial grid was performed by Gibson and Associates Inc. of Airdrie, AB between October 26 and November 30, 2004. A second phase of linecutting and geophysical surveying was undertaken in order to expand the grid based on favourable results from the first phase of geophysical surveying. The second phase of linecutting was performed between March 27 and April 10, 2005 by JKate Explorations Inc. of Matachewan, ON. A total of approximately 47 km of grid in base lines, tie lines and wing lines was cut by the two contractors, however 40 km of the grid is being filed for assessment in this submission. The entire grid is shown in Figure 2.

#### **3.2 Geophysical Surveying**

Geophysical surveying on the Merico Ethel Property consisted of magnetometer and induced polarization (IP) surveying and was also performed in two phases concurrent with and following the line cutting. The first phase was conducted in late November to late December and the second phase was conducted in late April, 2005.

##### **3.2.1 Magnetometer Surveying**

Magnetometer surveying during the first phase was conducted by Gibson and Associates Inc. of Airdrie, AB between December 6 to 17, 2004. Survey parameters and technical specifications for this work can be found in Appendix 1. The second phase of magnetometer surveying was completed by ClearView Geophysics Inc. of Brampton, ON in late April, 2005. Survey parameters and technical specifications for this work can be found in Appendix 3.

Between the two phases, a total of 40 km of magnetometer surveying and 29.65 km of IP surveying was completed. Contract arrangements, daily liaison, data quality monitoring, data processing, was conducted by Geo-Digit-Ex of Nepean, ON as the surveys were being performed. Integration of both phases of data, interpretation and production of final maps was completed by Geo-Digit-Ex in May 2005.

The combined magnetic data from both survey phases (see magnetic susceptibility map in back pocket) indicates that a generally flat regional background is present over the survey area. A weakly developed magnetic fabric trends northeast-southwest reflecting the strike of basement rocks beneath sedimentary cover rocks and intrusive sills.

The best defined feature is a coincident magnetic high, high IP, and low resistivity zone trending northeast-southwest for over 400 metres in the area of the Ethel copper occurrence (between Line 0 at Station 7+25S and Line 400W at Station 9+50S). The anomaly is likely due to pyrrhotite associated with the mineralized zone.

In profile detail, numerous discrete, very short spatial wavelength, spike-like dipolar or reverse polarity anomalies occur along the lines. The features are short strike length relative to the line spacings surveyed, making them difficult to correlate line-to-line with certainty. Dipolar and reverse polarity anomalies of this type indicate the presence of remnant magnetism of either magnetite or pyrrhotite. The minerals likely occur in veinlets and clots of limited strike and depth extent, and very close to surface.

The abundance of small magnetic features due to magnetite or pyrrhotite could be reflecting leakage from a large scale alteration/mineralizing system at depth. Prospecting of the anomalous locations is recommended to ascertain the type and significance of the remnantly magnetic sources.

### **3.2.2 Induced Polarization Surveying**

ClearView Geophysics Inc. of Brampton, ON completed the first phase of IP surveying between November 29 to December 20, 2004 and the second phase of IP surveying between April 15 to April 24, 2005. Survey logistics, specifications and interpretation with maps of individual line pseudosections are included in the contractor reports in Appendix 2 and 3. Within this volume, maps are presented which combine the results of the two phases of surveying onto one plan map each for IP chargeability, and IP resistivity (back pockets). Contract arrangements, daily liaison, data quality monitoring, data processing, was conducted by Geo-Digit-Ex of Nepean, ON as the surveys were being performed. Integration of both phases of data and production of final maps was completed by Geo-Digit-Ex in May 2005.

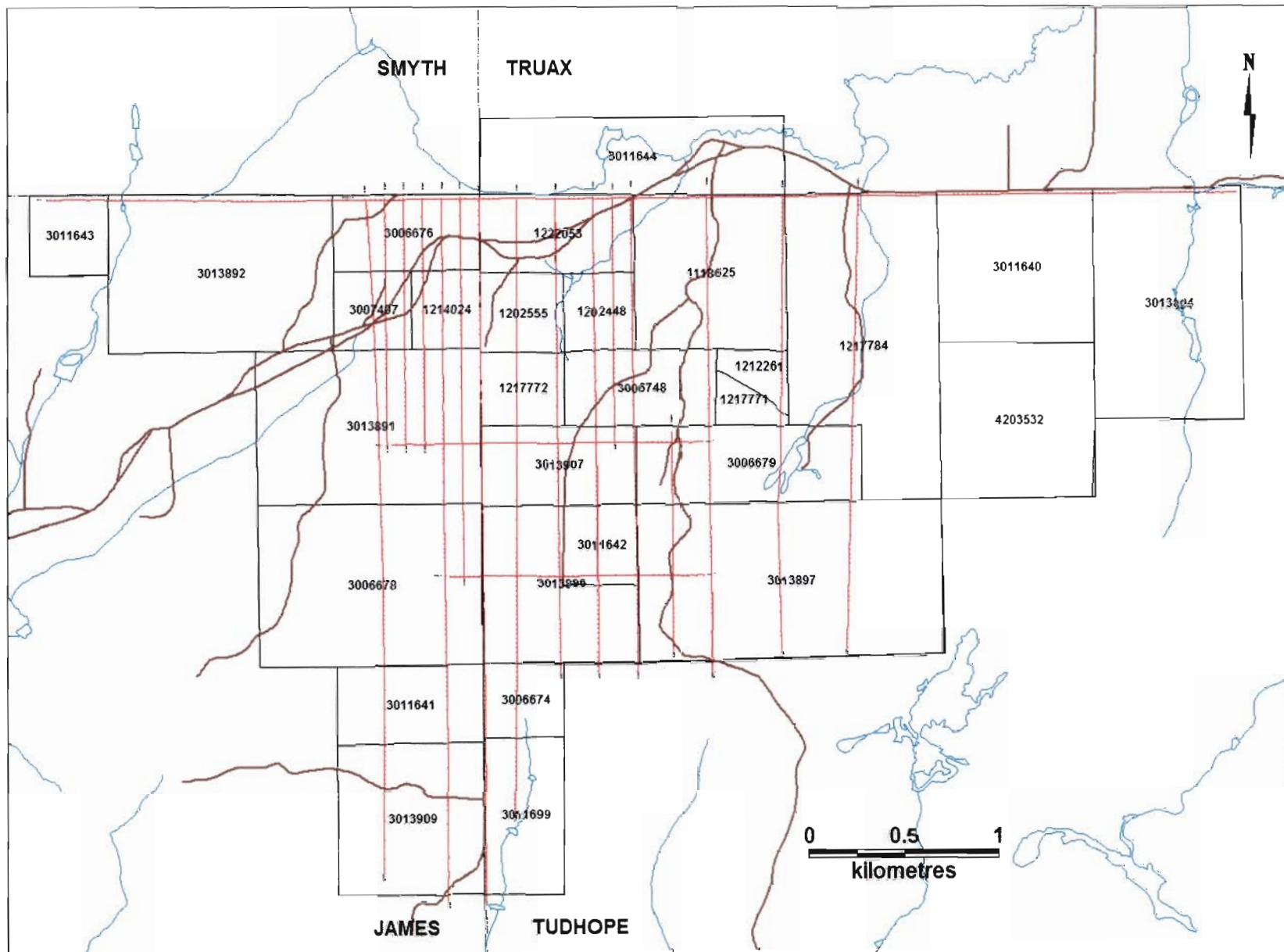


Figure 2. Merico Ethel Claims and Grid Location

## **Appendix 1**

### **Phase 1 Magnetic Survey Parameters and Specifications**





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**Merico Ethel Magnetic survey**

**Performed in Dec, 2004**

**By D. Gibson**

The Merico Ethel magnetic survey was performed between December 6 to 17, 2004 using a total-field proton precision Envi-Magnetometer and a total-field base-station manufactured by Scintrex.

One survey operator and one supervisor surveyed approximately 25 km of survey lines at 5-meter station intervals. All work was performed under and in keeping with the Ontario Work Safe Act of 2000. All personnel were highly trained and certified for the specific field work and in safe field operating practices and procedures.

The Envi-Mag instrument is a total-field proton precision magnetometer with sampling rates as fast as 0.5 seconds. Total-field absolute accuracy is +/- 1nt with a sensitivity of +/-0.1 nt at 2 seconds. The total field range of the Envi-Mag is from 20,000nt to 100,000nt (specifications detailed in following pages).

The magnetic survey was conducted at 5-meter station intervals over approximately 25 km of surveyed lines in the stop-and-go mode. Advance configuration for the survey, set in the instrument, was the mineral exploration mode. The sensor was mounted on top of a four-section pole measuring 2 meters in height and held vertical for every station.

The duration of the readings taken was set at 2 seconds to obtain the highest possible degree of accuracy and definition for the survey. A daily checkpoint was also established and used as a "check-in" and "check-out" point to aid in the monitoring and adjustment of diurnal changes in the magnetic field along with the total-field base-station. Date and time synchronizations were performed each day at the beginning of the survey to ensure accurate collection and correction of magnetic data.

The total-field base-station was established on the program in an area of relatively stable magnetic background and used daily for the duration of the survey. Base-station data was downloaded and used to correct the roving unit for any diurnal variations within the survey on a daily basis. Total field base-station corrections were performed within the roving unit through the connection of the roving unit and the base by way of a null modem. Raw data was extracted from the base and the rover units prior to correcting and then extracted upon correction.

Average temperature during the survey time period was -8 degrees Celsius with no noted disturbances within the magnetic field or ionosphere. Daily mission planning was performed for the survey area to monitor the earth's ionosphere and any local disturbances.

David Gibson  
Operations Manager  
Gibson and Associates Inc.  
403-461-9325 phone

## Reference information

### ENVI-MAG technical specifications

Total field range:	20,000 to 100,000 nT
Total field absolute accuracy:	+/- 1 nT
Sensitivity:	0.1 nT at 2 second reading time, reduced at other reading times.
Sensor spacing: (Gradiometer)	0.5 metre
Tuning:	Fully solid state. Manual or automatic; keyboard selectable.
Reading period:	0.5 sec 1 sec 2 sec
Cycle time: (Base Station)	<b>Internal:</b> The minimum is determined by the reading period, max. 9999 s, in 1s intervals. <b>External:</b> Any, as long as it exceeds the reading period and is initiated by a command at the RS-232 interface.
Cycle delay:	The minimum is determined by the reading (WALKMAG) period; max. 8 s, in 1 ms intervals.
Display:	8 lines by 40 characters, 64 x 240 dots. Super-twist LCDisplay, with heater.

## Reference

Keyboard:	17 keys, membrane type. Main mode is Function Key; secondary mode is Alpha-numeric.		
Note Entry:	32 characters, and 5 user pre-defined MACROs of 15 characters each, for quick-entry.		
Audio:	Beeper to acknowledge key-press, start of reading to act as a pacer.		
Clock:	Real time clock with date and time. 1 second resolution and +/- 1 second stability over 12 hours.		
Data memory:	<b>Mode</b>	<b>Standard</b>	<b>Expanded</b>
	Base Station:	149,000 rdgs.	748,000 rdgs.
	Portable mode	26,000 rdgs.	139,000 rdgs.
	Gradiom. mode	20,000 rdgs.	108,000 rdgs.
	WALKMAG (Tot.)	36,000 rdgs.	188,000 rdgs.*
	WALKGRAD (Grad.)	26,000 rdgs.	135,000 rdgs.
Data presentation:	Present and three previous readings in numerical form. Up to 178 readings in graphic form. Display shifts ¾ screen when full.		
Data output interface:	RS-232C interface. 600 to 57600 Baud. 7 or 8 data bits, 1 start, 1 stop bit, no parity format. Selectable carriage return delay (0-999 ms) to accommodate slow peripherals. Handshaking is done by X-On/X-Off.		
Data output format:	Data dump of all acquired data in memory or on a mode by mode and line by line basis in XYZ or printer listing format. Separate dump for "Notes".		

ENVI-MAG technical specifications

Analog Output:	0 to 999 mV full scale output voltage with keyboard selectable range of 1, 10, 100, 1000 or 10000 nT full scale.
Data Recall:	On the LC Display in graphic format. Based on time for the base station, on line and station basis for other modes. Bi-directional scan.
Power supply:	12 V at 0.65 A for magnetometer. 1.2 A for gradiometer. 2.3 Ah Lead-acid battery. Approximate battery life is 40000 readings as a WALKMAG at 25 degree C. External input for base station operation.
Battery charger:	110 V - 230 V 50/60 Hz
Environmental Range:	-40 to 60 degree C. Humidity 0 - 100% Fully sealed. Easy to exchange desiccant cartridge.
Console dimensions:	250 mm x 152 mm x 55 mm 300 mm x 152 mm x 82 mm overall.
Console weight:	2.45 kg
Sensor dimensions:	70 mm diameter x 140 mm 70 mm diameter x 175 mm overall, total field. 70 mm diameter x 675 mm overall, gradiometer.
Sensor weight:	1.0 kg total field; 1.15 kg gradiometer.
Staff dimensions:	25 mm diameter x 2 m in 4 sections.
Staff weight:	0.8kg

Reference