

## TECK COMINCO LIMITED EXPLORATION

**RESISTIVITY / INDUCED POLARIZATION SURVEY** 

THUNDERCLOUD PROJECT KENORA DISTRICT ONTARIO, CANADA

LOGISTICS AND INTERPRETATION REPORT

07N024

**JUNE 2007** 



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## ABSTRACT

On behalf of Teck Cominco Limited Exploration, a resistivity / induced polarization survey was performed over the Thundercloud Project, located in the Dryden area of northwestern Ontario.

During the month of May 2007, a total of **17.6 km** of IP surveying acquired in the poledipole configuration (electrode spacing of a = 50 m and number of dipoles n = 1 to 6) was carried out over the property. Survey specifications, instrumentation control, data acquisition, processing and interpretation were all successfully performed within our Quality System framework.

Following meticulous interpretation of pseudosections and image2D<sup>®</sup> true-depth sections, seventeen chargeability anomalous trends were identified over the Thundercloud Property. They have been posted on both the pseudosection plates and the Interpretation Map (10.0). Some initial prospecting has been recommended over fourteen anomalies likely resultina from subcropping-outcropping sources. Pending results, follow-up drilling could be carried out over six of the most promising anomalies. In order to establish consistent IP trends and thereby better evaluate the potential of these anomalies, an IP survey extension over the southern part of the grid and a magnetic survey covering the entire grid area should definitely be carried out prior further recommendations.



# 1. THE MANDATE

Project ID	Thundercloud (Our reference: 07N024)
GENERAL LOCATION	50 km southeast of Dryden, northwestern Ontario.
CUSTOMER	<b>Teck Cominco Limited Exploration</b> 855 Field Street Thunder Bay, ON P7B 6B6
	Telephone: (807) 346-4322 Fax: (807) 346-4328
Representative	Mr. Graeme Evans, B.Sc., P.Geo. Senior Geologist Graeme. Evans@teckcominco.com
SURVEY TYPE	Time Domain Resistivity / Induced Polarization
GEOPHYSICAL OBJECTIVES	Identification of potential DDH targets and of a follow-up aconhysical campaign

- geophysical campaign.Assess the potential for gold and base metals mineralization.
- Assist in lithological discrimination and structure mapping.



GENERAL LOCATION OF THE THUNDERCLOUD PROJECT



# 2. THE THUNDERCLOUD PROJECT

LOCATION	Kenora District Northwestern Ontario, Canada Centred on 49° 23' N and 92° 27' W NTS sheet: <b>52F/07</b>
NEAREST SETTLEMENTS	Dryden: 50 km to the northwest Thunder Bay: 250 km to the southeast
Access	From Dryden, drive east onto Highway 17 for about 40 km. Just past Jackfish Lake, turn south on a logging road and continue for approximately 35 km. At that point, the road crosses the Thundercloud Property.
Geomorphology	The property is located within relatively hilly terrain with maximum elevation reaching values of approximately 50 m above local water level. Some outcropping areas are locally exposed throughout the property. A few swamps and small interconnected lakes are located within the most depressed areas of the grid. Thundercloud Lake is located just south of the grid while Kennewapekko Lake and Washeibemaga Lake respectively border the west and east sides of the survey area.
CULTURAL FEATURE	Logging roads cross the property without any apparent effect on data quality.
LAND TENURE	The claim numbers encompassed in the present survey are illustrated on the following page.
SURVEY GRID	The survey grid was cut during the winter of 2007, just prior to the geophysical campaign. It consists of twenty east-west trending cross-lines (lines 698+00N to 717+00N) cut at a nominal spacing of 100 m. These lines are 1 km long and extend eastwardly from tie-line 36+00E in the northern part of the grid and from tie-line 38+00E in the southern area. All lines are picketed every 25 m.
	The survey grid was thereafter accurately positioned using GPS points recorded at end of lines. The survey area covering the Thundercloud Project is illustrated on the next page.
	Note that logging activities going on at the time of the geophysical campaign prevented survey coverage over a few southern lines of the grid.
COORDINATE SYSTEM	Projection: Universal Transverse Mercator Datum: NAD83 Central meridian: 93°00' W (UTM Zone 15N)





INDEX OF CLAIMS AND SURVEY AREA OF THE THUNDERCLOUD PROJECT



# 3. RESISTIVITY / INDUCED POLARIZATION SURVEY

TYPE OF SURVEY

Time domain resistivity / induced polarization **Pole-dipole** array, "a" = 50 m, "n" = 1 to 6 UTM Location (NAD83) of  $C_{\infty}$ : 536 385 mE / 5 469 266 mN



Personnel	Israël Bacon, Francis Thibeault, Daniel Ricard, Bruno Tremblay, Yoan Hébert Lapointe, Carole Picard, Tech., Helene Rivest, Geo.,	crew chief, geophysical operator field assistant field assistant field assistant field assistant data processing & plotting fieldwork supervision, logistics, QC & interpretation
DATA ACQUISITION	May 22 to 30, 2007.	
SURVEY COVERAGE	17.6 km	
IP TRANSMITTER (TX)	GDD Instrument TxIII, Power supply: H Maximum output: u Electrodes: s Resolution: 1 Waveform: b Pulse duration: 2	s/n 260 londa 2000 W p to 1.8 kW or <b>10 A</b> or 2000 V tainless steel stakes mA on output current display I ipolar square wave with 50% duty cycle seconds
	+ I	$\leftarrow 2s \rightarrow$

8 s



### □ IP RECEIVER (Rx)

- IRIS Elrec-PRO, s/n 104, 10 input channels model Electrodes: stainless steel stakes
  - V<sub>P</sub> Primary voltage measurement:
  - ♦ Input impedance: 100 MΩ
  - ♦ Resolution:
  - 1 μV 0.2% ♦ Typical accuracy:
  - Ma Apparent chargeability measurement: 0.01 mV/V
  - ♦ Resolution:
  - ♦ Typical accuracy: 0.4%
  - $\diamond$  Arithmetic sampling mode, 20 time slices (M<sub>1</sub> to M<sub>20</sub>)



All windows are normalized with respect to a standard decay curve for QC in the field.

$$\rho_a = 2 \cdot \pi \cdot \frac{V_p}{I} \cdot n \cdot (n+1) \cdot a \quad (in \,\Omega \cdot m)$$

Cumulative error:

5% max, mainly due to chaining accuracy.

CALCULATION

APPARENT RESISTIVITY

**QUALITY CONTROL** (RECORDS AVAILABLE UPON REQUEST)

#### Before the survey:

- ✓ Transmitter & motor generator were checked for maximum output using calibrated loads.
- ✓ Receiver was checked using the Abitibi Geophysics SIMP<sup>™</sup> certified and calibrated V<sub>P</sub> & M signal simulator.

#### During data acquisition:

- ✓ Rx & Tx cable insulation was verified every morning.
- ✓ Proprietary Software Refusilo<sup>®</sup> allowed a daily thorough monitoring of data quality and survey efficiency.
- ✓ Enough pulses were stacked: 6 pulses for every reading.

## At the Base of Operations:

- ✓ Field QCs were inspected & validated.
- ✓ Each IP decay curve was analyzed with Refusilo<sup>®</sup>. The few windows that were rejected were not included in the calculation of the plotted Ma.



## **QUALITY STATISTICS**

Pole-dipole: a = 50 m, n= 1 to 6	Thundercloud Project	
Average contact resistance at the $R_{x}$	8 kΩ	
Average output current across C <sub>1</sub> -C <sub>2</sub>		370 mA
Average measured voltage Vp across P. P.	n = 1	5010 mV
Average measured voltage vp across F1-F2	n = 6	580 mV
Observed gates found to fit a pure electrode polarization relaxation curve		98.9 %
Average deviation of the validated normalized	n = 1	0.03 mV/V
chargeabilities	n = 6	0.12 mV/V



## 4. DATA PROCESSING AND DELIVERABLES

TRUE-DEPTH IP SECTIONS	Apparent resistivity and chargeability pseudosections were inverted using our proprietary <i>image2D</i> <sup>®</sup> package. The process is fully automated as there is no need to guess a starting model or to filter the pseudosection to generate one. The ground is divided in cells of $a_{/4}$ side and a back-projection of the raw data is performed.
	The result is a smooth earth model showing all conductive, resistive and polarizable sources. The resulting true-depth sections integrate all possible solutions, highlighting the most probable ones.
	A synthetic example showing the ability of <i>image2D</i> <sup>®</sup> to resolve sources and to facilitate the location of DDH is presented on page 9.
PRECISIONS CONCERNING image2D <sup>®</sup>	Imaging cannot create information that is not in the raw data set (pseudosections), i.e., the limitations of the technique and array that was used will still prevail. With pole-dipole, for instance, resolution is asymmetrical and vertical sources may show a false dip. However, noise is efficiently rejected, near-surface effects are easily identified and complex responses, such as two adjoining sources, a wide body or a dipping geological contact, are well resolved.
	This imaging process will not recover intrinsic resistivities unless the source is very wide. However, as opposed to pseudosections, geological data from drill-holes may be superimposed on <i>image2D</i> <sup>®</sup> true-depth sections.
MAPS PRODUCED	The following colour maps are bound or inserted in pouches at the end of this report. Our Quality System requires that every final map be inspected by at least two qualified persons before being approved and included within a final report.

Map Number	Description	Scale
Lines 717+00N to 702+00N, 699+00N & 698+00N (18 plates)	Colour Apparent Resistivity & Chargeability Pseudosections and <i>image2D</i> <sup>®</sup> True-depth Sections along with Interpretation	1: 5000
8.2	IP Survey - image2D <sup>®</sup> Resistivity at a depth of 60 m	1: 5000
8.3	IP Survey - <i>image2D</i> <sup>®</sup> Chargeability at a depth of 60 m	1: 5000
8.5	IP Survey - image2D <sup>®</sup> Time Constant at a depth of 60 m	1: 5000
10.0	Geophysical Interpretation	1: 5000

DIGITAL DATA

The above-described maps are delivered in the Oasis Montaj map file format on CD-Rom.

A copy of all survey acquisition data (ASCII text format) and processed data (Geosoft Montaj databases) are also delivered on CD-Rom.



# image2D<sup>®</sup> demo on synthetic datasets

**Top half of figure**: classic apparent resistivity and chargeability pseudosections. **Centre of plate**: the synthetic model that generates these pseudosections.



**Bottom half of figure**: the reconstructed resistivity and chargeability true-depth sections after inversion of the pseudosections using *image2D*<sup>®</sup>. The model is superimposed on these sections.

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## 5. RESULTS AND RECOMMENDATIONS

### RESISTIVITY AND CHARGEABILITY MAPS

Following interpretation of pseudosections and *image2D*<sup>®</sup> true-depth sections, seventeen polarizable anomalous trends were compiled on the Thundercloud Project. These anomalies have been correlated from line-to-line according to their strength, resistivity association and the general strike orientation. The inferred surface projection of their IP signatures are shown along the survey lines on both the Geophysical Interpretation Map (10.0) and the pseudosection plates. They are briefly discussed in the section below but refer to the Appendix found at the end of this report for a more detailed description of each of these anomalies. In summary, an extensive initial prospecting program was recommended over fourteen anomalous trends interpreted as resulting from subcropping sources. Pending prospecting results, six of the most interesting anomalous trends (TH-01, TH-02, TH-04, TH-07, TH-08 & TH-12) may warrant follow-up drilling. An IP survey extension recommended over the southern area along with a magnetic survey carried out over the entire grid would help to establish consistent polarizable trends in this area.

The chargeability map plotted at a depth of 60 m shows a local north-south orientation of higher values. However, a high amplitude chargeability feature located within the northern section of the grid (lines 712+00N, 713+00N & 714+00N) could actually be interpreted as WSW-ENE trending instead of being part of N-S trending anomalies **TH-01**, **TH-02**, **TH-03 & TH-04**. These higher chargeability values also seem to correspond to slightly more conductive values (resistivity map). Such a feature cross-cutting the local geology could results from an intrusive mafic dyke. A magnetic survey would confirm this possibility.

The resistivity map plotted at a depth of 60 m consists of generally resistive values ranging from 2000 to 35 000 Ohm-m. On the Geophysical Interpretation Map (10.0), the 10 000  $\Omega$ m contour line (resistivity map #8.2) was chosen to delineate the more resistive zones. These zones were then shaded in blue on the Geophysical Interpretation Map (10.0) and represent areas where bedrock is likely subcropping to outcropping.

Pending prospecting results, IP survey extensions could be carried out over several open-ended chargeability trends or single-line anomalies (TH-09, TH-12, TH-13, TH-14, TH-15 and TH-17).

An E-W fault was inferred from a possible disruption observed from the interpreted IP trends. A magnetic survey would help confirm the presence of such feature.

## COLE-COLE TIME CONSTANT MAP

The Cole-Cole time constant map plotted at a depth of 60 m has revealed a few higher values areas corresponding to a few interpreted IP anomalies (**TH-01**, **TH-02**, **TH-08** & **TH-09**). This parameter helps with mineral discrimination and higher values are generally indicative of the presence of clay altered minerals (OH-). All the above-mentioned IP anomalies thus result as higher potential targets for gold mineralization.



All-priority DDH targets are illustrated hereafter on their respective chargeability true depth sections. (Suggested initial prospecting over these DDH targets is indicated by \*)

## □ FIRST- PRIORITY DDH TARGETS: (TH-01\*, TH-02\* & TH-08\*)



## First-priority proposed DDH TH-01 on line 712+00N:

#### First-priority proposed DDH TH-02 on line 713+00N:



#### First-priority proposed DDH TH-08 on line 709+00N:





## Second- priority DDH targets: (TH-04\*, TH-07\* & TH-12\*)



### Second-priority proposed DDH TH-04 on line 714+00N:

#### Second-priority proposed DDH TH-07 on line 708+00N:



Second-priority proposed DDH TH-12 on line 698+00N:





# 6. FOLLOW-UP SUMMARY

D PROSPECTING

Priority	Anomaly	Location		
Flionty	Anomaly	Line	Station	
		712+00N	38+25E	
		713+00N	38+75E	
		714+00N	38+25E	
		715+00N	38+75E	
	TH-02	713+00N	40+75E	
1	TH-03	713+00N	41+75E	
1	TU OP	709+00N	43+25E	
	11-00	710+00N	43+25E	
		702+00N	39+50E	
	TH-09	703+00N	39+25E	
		705+00N	39+25E	
	TH-13	699+00N	40+75E	
	TH-04	714+00N	43+25E	
		706+00N	43+25E	
	111-07	708+00N	42+75E	
2	TH-10	705+00N	41+25E	
	TH-12	698+00N	42+25E	
	TH-15	702+00N	42+25E	
	TH-16	715+00N	44+00E	
3	TH-11	703+00N	46+25E	
3	TH-14	699+00N	44+25E	

# Drilling

Priority	Anomaly	DDH target	(not the colla	r location)	
Flionty	Anomaly	Line	Station	Depth (m)	
	TH-01*	712+00N	38+25E	40	
1	TH-02*	713+00N	40+75E	30	
	TH-08*	709+00N	43+25E	30	
	TH-04*	714+00N	43+25E	25	
2	TH-07*	708+00N	42+75E	25	
	TH-12*	698+00N	42+25E	30	
*Pending prospe	Pending prospecting results.				

# IP SURVEY EXTENSION (Pole-dipole: a = 50 m, n = 1 to 6)

Priority	Anomaly	Survey Direction
1	TH-09*	South
I	TH-13*	In-fill lines 700+00N & 701+00N
3	TH-14*	North & South
3	TH-17	Winter survey to the east, north & south
*Pending prospe	cting results.	

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The interpretation of the geophysical data embodied in this report is essentially a geophysical appraisal of the Thundercloud Project. As such, it incorporates only as much geoscientific information as the author has on hand at the time. Geologists thoroughly familiar with the area are in a better position to evaluate the geological significance of the various geophysical signatures. Moreover, as time passes and information provided by follow-up programs are compiled, exploration targets recognized in this study might be down-graded or up-graded.

GUE / GEOLOGA Respectfully submitted, Abitibi Geophysics Inc. 6 HELENE ¥ **RIVEST** #1028 ile QUÉBEC Helene Rivest, Geo. Geophysicist

# APPENDIX



## DESCRIPTION OF IP / RESISTIVITY ANOMALIES INTERPRETED ON THE THUNDERCLOUD PROJECT

Anomoly	Location		Contrast		tion Contr		Community	
Anomaly	Line	Station	Charg.	Res.	Comments	Priority		
	711+00N	38+75E	3	-	Strongly polarizable anomalous trend.			
	712+00N	38+25E	4	-	Shows a local increase of associated time constant values, indicative of the presence of clay altered			
	713+00N	38+75E	4	-	minerals.			
TH-01	714+00N	38+25E	4	-	Source estimated subcropping.	1		
	715+00N	38+75E	4	-	May extend to the south as TH-09.			
	716+00N	38+75E	3	_	Should be investigated by initial prospecting on lines 712+00N, 713+00N, 714+00N & 715+00N			
	717+00N	38+75E	2	-	followed by possible drilling on line 712+00N.			
	711+00N	40+75E	3	-	Strongly polarizable anomalous trend. Shows a local increase of associated time constant values, indicative of the presence of clay altered			
TH-02	712+00N	41+25E	3	-	minerals. Subcropping on line 713+00N. N-S trending	1		
	713+00N	40+75E	4	-	Should be investigated by initial prospecting on line 713+00N followed by possible drilling on the same line.			
	712+00N	42+25E	3	-	Strongly polarizable anomalous trend.			
TH-03	713+00N	41+75E	4	-	ubcropping on line 713+00N.	1		
l l	714+00N	41+75E	3	-	Should be investigated by prospecting on line 713+00N.			
	711+00N	44+75E	3	-				
	712+00N	44+25E	3	-	Strongly polarizable anomalous trend			
	713+00N	44+25E	4	-	Subcropping on line 714+00N.			
TH-04	714+00N	43+25E	4	-	Generally N-S trending.	2		
	715+00N	42+75E	3	<u>↑</u> ↑	Should be investigated by initial prospecting on line 714+00N followed by possible drilling on the			
	716+00N	42+75E	3	-	same line.			
	717+00N	41+75E	3	-				
	709+00N	West End	3	-	Strongly polarizable anomalous trend. Located at end of line, Incomplete signatures.	4		
	710+00N	39+25E	3	-	Could be interpreted as the southern extension of <b>TH-01</b> . No further work recommended at the present time.	4		
	706+00N	40+25E	3	-	Strongly polarizable anomalous trend. Best-response on line 706+00N.			
TH-06	707+00N	40+25E	3	-	Located under a thin layer of overburden.	4		
	708+00N	39+75E	3	-	No follow-up work recommended at the present time.			

# APPENDIX



# DESCRIPTION OF IP / RESISTIVITY ANOMALIES INTERPRETED ON THE THUNDERCLOUD PROJECT

Anomaly	Location		Contrast		Commonte	Duiouitu
	Line	Station	Charg.	Res.	Comments	Priority
TH-07	706+00N	43+25E	3		Strongly polarizable anomalous trend. Source estimated subcropping. N-S trending. Should be investigated by initial prospecting on lines 706+00N & 708+00N followed by possible drilling on line 708+00N.	
	707+00N	43+25E	3	-		
	708+00N	42+75E	3	-		2
	709+00N	42+25E	3	-		
	710+00N	41+75E	3	-		
	702+00N	43+25E	3	-	Moderately to strongly polarizable anomalous trend. Shows a local increase of associated time constant values, indicative of the presence of clay altered minerals. Subcropping on line 709+00N. Best-defined responses on lines 709+00N & 710+00N. Generally N-S trending. Should be investigated by initial prospecting on lines 709+00N & 710+00N, followed by possible drilling on line 709+00N.	
TH-08	703+00N	44+25E	2	-		
	704+00N	44+75E	2	-		
	705+00N	45+25E	2	-		
	706+00N	45+25E	3	-		1
	707+00N	44+75E	3	-		
	708+00N	44+25E	3	-		
	709+00N	43+25E	4	-		
	710+00N	43+25E	4	-		
TH-09	702+00N	39+50E	4	-	Strongly polarizable anomalous trend. Corresponds to an increase of time constant values, indicative of the presence of clay altered minerals. Depth to top of source estimated at 30 m or less. End of line anomaly, incomplete signatures. N-S trending. May extend to the north as TH-01. Should be investigated by prospecting on lines 702+00N, 703+00N & 705+00N. Pending results additional survey coverage could be carried out to the south.	1
	703+00N	39+25E	4	-		
	704+00N	West End	4	-		
	705+00N	39+25E	4	-		
	706+00N	West End	3	-		,
TH-10	703+00N	41+25E	3	-	Strongly polarizable anomalous trend. Could be interpreted as the southern extension of <b>TH-06</b> . N-S trending. Closely related to <b>TH-09</b> . Wait for results on <b>TH-09</b> prior drilling on <b>TH-10</b> . <b>Could be investigated by prospecting on line 705+00N</b> .	
	704+00N	41+00E	3	-		2
	705+00N	41+25E	3	-		
 TH-11	702+00N	46+25E	3	-	Moderately to strongly polarizable anomalous trend. Subcropping. N-S trending. Could be investigated by prospecting on line 703+00N.	3
	703+00N	46+25E	2	-		
	704+00N	46+25E	2	-		
TH-12	698+00N	42+25E	4		Strongly polarizable anomalous trend. Subcropping. N-S trending. Should be investigated by initial prospecting on line 698+00N followed by possible drilling on the same line.	2
	699+00N	42+25E	3	-		

## APPENDIX



### DESCRIPTION OF IP / RESISTIVITY ANOMALIES INTERPRETED ON THE THUNDERCLOUD PROJECT

Anomaly	Location		Contrast			Delevit
	Line	Station	Charg.	Res.	Comments	Priority
TH-13	699+00N	40+75E	4	-	Strongly polarizable anomaly. Single-line anomaly that could be interpreted as the southern extension of TH-09. Outcropping to subcropping. Prospecting and additional survey coverage (in-fill survey lines 700+00N & 701+00N) is recommended over TH-13.	1
TH-14	699+00N	44+25E	3	-	Strongly polarizable anomaly. Single-line anomaly that could extend to the north or south. End-of-line signature that remains incomplete. Outcropping to subcropping. Prospecting and additional survey coverage is recommended to the north and south.	3
TH-15	702+00N	42+25E	3	-	Strongly polarizable anomaly. Single-line anomaly that could extend to the north or south. Prospecting and additional survey coverage is recommended to the south.	2
TH-16	715+00N	44+00E	3	-	Strongly polarizable anomaly that could be associated with a small conductive feature. Identified on one line only, TH-15 could however be part of a SW-NE chargeable trend encompassing TH-01, TH-02, TH-03 & TH-04. Should be investigated by prospecting.	2
TH-17	713+00N	46+25E	4	$\uparrow\uparrow$	Strongly polarizable and resistive anomaly. Identified on one line only, but remains open to the east, north and south. Anomaly likely located under water. According to client's interest, additional survey coverage performed during the winter months could be carried out to the east, north and south of this anomaly.	3

#### LEGEND:

#### Chargeability Increase

? = Marginal 1 = Weak 2 = Moderate 3 = High 4 = Very High

#### Resistivity Increase ↑ = Resistive ↑↑ = Very Resistive Decrease ↓ = Conductive

 $\downarrow = Conductive$  $\downarrow \downarrow = Very Conductive$ 

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