



**ABITIBI**  
**GEOPHYSICS**

**MUSTANG MINERALS CORP.**

BOREHOLE TDEM SURVEY

**EAST BULL LAKE PROJECT**

GEROW AND BOON TOWNSHIPS,  
ONTARIO, CANADA

**INTERPRETATION REPORT**

**12N032B**

**JULY 2012**



Patent No.:US 7,116,107 B2



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## ABSTRACT

*On behalf of Mustang Minerals Corp., a borehole geophysical TDEM survey was carried out over the **East Bull Lake Project**, located in the Gerow and Boon Townships at about 80 km west of Sudbury, Ontario, Canada. The objectives of the survey were to detect, locate and define the geometry of buried conductive zones, as well as to propose a follow-up program over the most promising anomalies.*

*The TDEM survey was carried from May 2 to 5, 2012. Six drill holes (**EB08-01, EB08-03, EB12-01, EB12-02, EB12-03 and EB12-05**) were covered. Survey specifications, instrumentation control, data acquisition, processing and interpretation were all successfully performed within our Quality System framework.*

*This borehole TDEM survey allowed the identification of 7 off-hole anomalies and 1 in-hole anomaly. Most of the off-hole anomalies interpreted in this project could be associated with the surface TDEM anomalies interpreted in Project 11N098.*

## 1. THE MANDATE

- PROJECT ID** **East Bull Lake Project**  
 (Our reference: **12N032B**)
- GENERAL LOCATION** East Bull Lake intrusion  
 District of Algoma, Ontario, Canada
- CUSTOMER** **Mustang Minerals Corp.**  
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 Toronto, ON M5H 2M5  
 Telephone: (416)-955-4773 Fax: (416) 955-4771  
[www.mustangminerals.com](http://www.mustangminerals.com)
- REPRESENTATIVE** Mr. David Stevenson, P.Geo.  
 VP Corporate Development  
[dbs@mustangminerals.com](mailto:dbs@mustangminerals.com)
- SURVEY TYPE** **Borehole TDEM Survey**
- GEOPHYSICAL OBJECTIVES**
- To detect, locate and define the geometry of buried conductive zones.
  - To propose a follow-up program over the most promising anomalies.



FIGURE 1. GENERAL LOCATION OF THE EAST BULL LAKE PROJECT



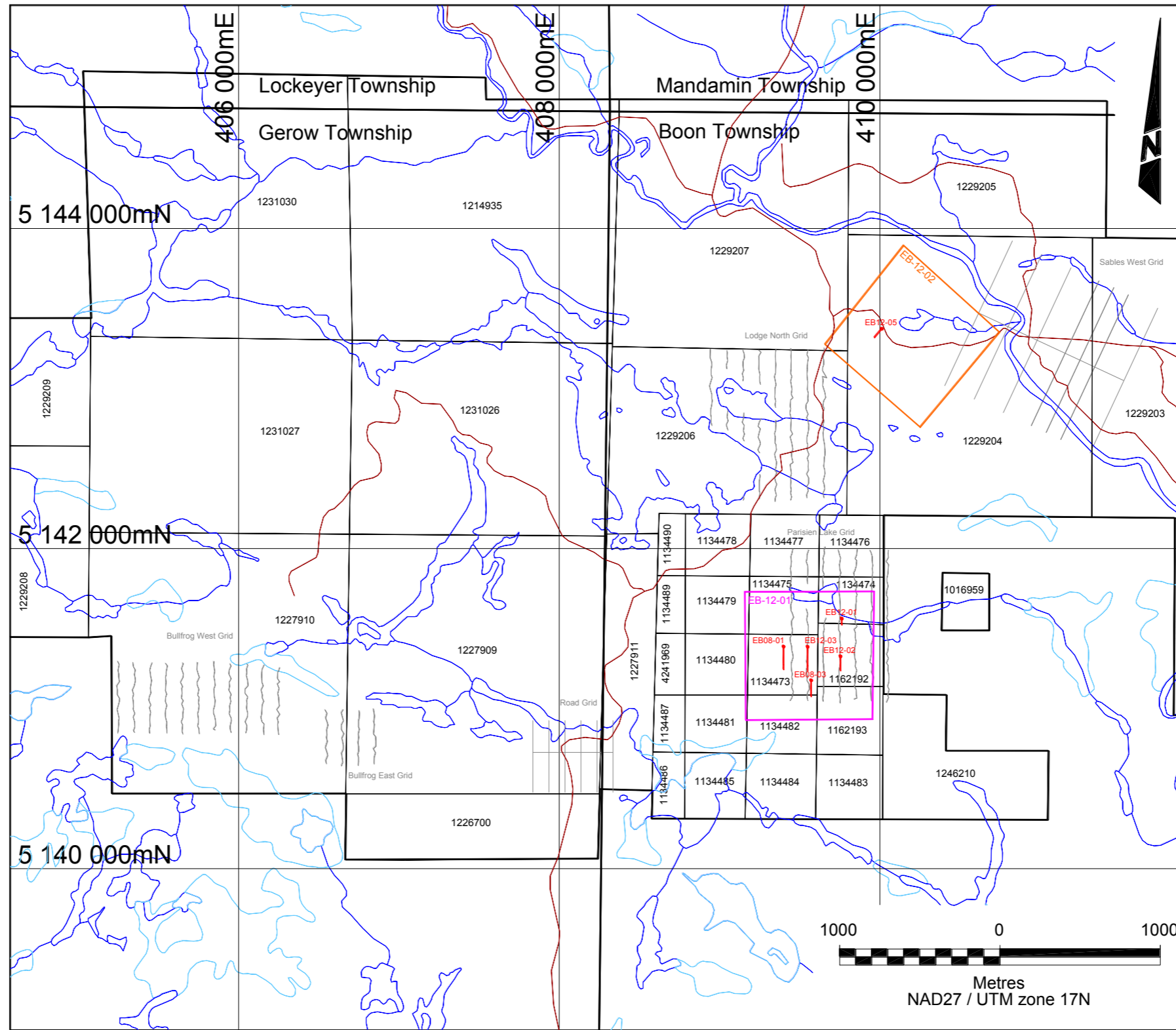


FIGURE 2. INDEX OF CLAIMS AND DDH LOCATION

### 3. BOREHOLE TDEM SURVEY

- TYPE OF SURVEY*                      **BH-TDEM** (Borehole Time Domain ElectroMagnetics)  
 Reading interval: 10 m
  
- MEASUREMENTS*                      Axial **Z** and orthogonal **X** and **Y** partial derivatives ( $\partial B/\partial t$ ) of the secondary EM field (inductive coils)
  
- PERSONNEL*                              David Giroux,                      Operator & Crew chief  
    Marc Lebelle,                      Operator  
    Marc-André Gamelin,           Field assistant  
    Bruno Tremblay, Tech.        Logistics  
    Carole Picard, Tech.,        Plotting  
    Mahdi Brakni, M.Eng        Field work supervision, QC, data processing & report  
    Martin Dubois, Geo.,        Final validation of product conformity
  
- SURVEY DDH*                              DDH **EB12-01**: from 20 to 140  
    DDH **EB12-02**: from 20 to 234  
    DDH **EB12-03**: from 20 to 283  
    DDH **EB08-01**: from 20 to 255  
    DDH **EB08-03**: from 20 to 180  
    DDH **EB12-05**: from 20 to 445
  
- TRANSMITTING LOOP SPECIFICATIONS*                      Specifications: see table 1  
    Localization: see map 10.0

**Table 1. DDH and loop specifications**

Loop #	Dimensions	DDH	Acquisition	Current (A)	Ramp (µs)
EB-12-01	800 mE x 800 mN	EB12-01	May 03, 2012	20	570
		EB12-02	May 03, 2012		
		EB12-03	May 02, 2012		
		EB08-01	May 03, 2012		
		EB08-03	May 02, 2012		
EB-12-02	800 mE x 800 mN	EB12-05	May 05, 2012	20	570

□ *TDEM TRANSMITTER (TX)*

TerraScope Instruments **Pro 5U**, s/n 03  
 Power supplies: Voltmaster 13000 long run  
 Maximum output: 12 kW or 25 A or 600 V  
 Transmitted signal: Bipolar wave 50% duty cycle

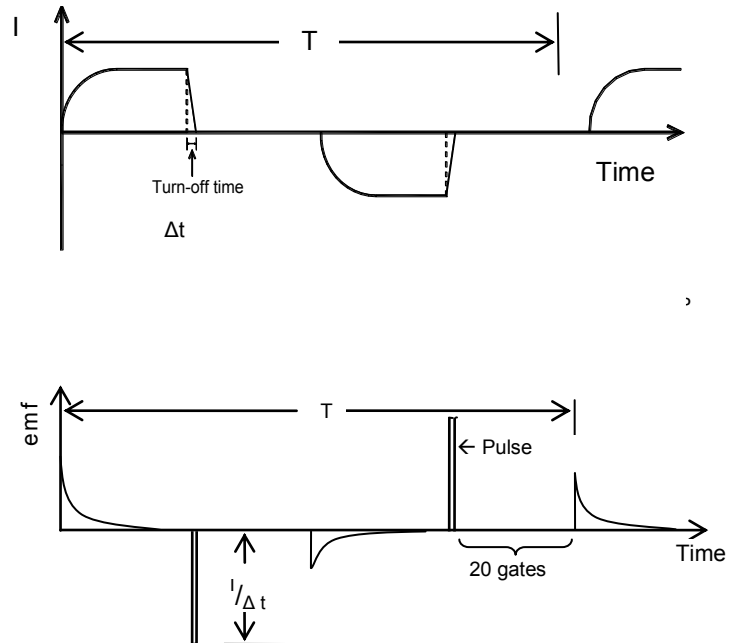


FIGURE 4. ELECTROMOTIVE FORCE WAVEFORM GENERATED IN THE GROUND

□ *TDEM RECEIVER (RX)*

Digital receiver: Geonics, **PROTEM 67D**, s/n 52407  
 Tx synchronization: Reference Mode  
 Integration time: 1 cycle of 30 seconds  
 Start of integration: 80  $\mu$ s from end of trailing edge  
 Number of gates: 20 geometrically spaced  
 Additional delay: 0  $\mu$ s

**Table 2. Geonics' PROTEM time gate locations (30 Hz)**

Window #	Start (µs)	Centre (µs)	Width (µs)
1	80.00	88.13	16.25
2	96.25	106.9	21.25
3	117.5	131.3	27.50
4	145.0	161.9	33.75
5	178.8	200.6	43.75
6	222.5	250.6	56.25
7	278.5	314.4	71.25
8	350.0	395.6	91.25
9	441.3	499.4	116.3
10	557.5	631.3	147.5
11	705.0	799.4	188.8
12	893.8	1014	240.0
13	1134	1287	306.3
14	1440	1636	391.3
15	1831	2081	498.8
16	2330	2648	636.3
17	2966	3373	812.5
18	3779	4297	1036
19	4815	5475	1321
20	5986	6828	1685

□ *BOREHOLE COIL*

Geonics **BH43-3**, s/n 1006 (with 2000 m cable)  
 Sequential measurements of the Z, X and Y components and of the  $\alpha$  and  $\beta$  tiltmeter values.  
 Effective area: 100 m<sup>2</sup>



*POLARITY CONVENTION*

Z (A component): along DDH axis, positive upward  
 X (U component): orthogonal to Z, thus to the borehole axis, positive upward  
 Y(V component): orthogonal to Z and X, positive counter clockwise to X.

*SOFTWARE*

**Geonics PROTEM:** Rx data transfer to PC via RS232  
**Geonics DATEM:** Quality control  
**EMIT Maxwell:** Data processing, plotting and interpretation

*QUALITY CONTROL*  
 (RECORDS AVAILABLE UPON REQUEST)

**Before the survey:**

- ✓ Transmitter & motor generator were checked for maximum output using calibrated loads.
- ✓ GSC geomagnetic forecasts were consulted.

**Daily and prior to data acquisition:**

- ✓ The battery voltage of each receiver was checked.
- ✓ The polarity of the primary field was verified on each receiver.
- ✓ Receiver was calibrated and accurately synchronized to the transmitter prior to and during data acquisition.
- ✓ The crystal drifts of each receiver-transmitter combo have been thoroughly monitored and recorded throughout the entire survey period. The averaged daily drifts were calculated and are well within quality control specifications.

**At the Base of Operations:**

- ✓ Field QCs were inspected & validated.
- ✓ X, Y & Z - Primary field components polarity was checked & corrected if required.

**Survey noise evaluation:**

- ✓ No geomagnetic activity was observed throughout the survey period.
- ✓ No abnormal instrumental noise was detected during the survey.
- ✓ The background geological noise over East Bull Lake Project is evaluated at approximately 0.12 nV/Am<sup>2</sup>.

#### 4. DATA PROCESSING AND DELIVERABLES

*NORMALIZATION OF THE TDEM MEASUREMENTS*

The Geonics field measurements were converted from mV to nV/Am<sup>2</sup> (nT/A-s) units, according to current intensity inside the loop and effective surface area of the Rx antenna.

$$\frac{nV}{Am^2} = \frac{V * 192}{A * 2^n * S / 100}$$

where V = measured voltage at the Rx coil (mV),  
 n = gain of each reading,  
 S = effective surface area (m<sup>2</sup>) of the Rx coil,  
 A = current inside the loop.

*STACKED PROFILES*

The ground vertical (Z) and horizontal (X, Y) components were plotted along with the vertical primary field using Maxwell software.

Refer to Appendix B for the borehole stacked EM profiles. Each interpreted anomaly is identified on the profiles with a diamond symbol “◆”.

*SUPPLIED MAP*

The *Geophysical Interpretation* map (10.0) is inserted in a pouch 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.

**Table 3. Maps produced**

Map #	Description	Scale
18 profiles	Borehole TDEM survey	1:1000 1:2000
10.0	Transmitting Loop Outlines & DDH locations	1:10 000

*DIGITAL DATA*

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

A copy of all survey acquisition data is delivered on DVD-Rom. This includes TEM *ascii* files (.TEM) of each surveyed line.

## 5. INTERPRETATION & RECOMMENDATIONS

### DDH EB12-01

The borehole TDEM survey has detected one anomaly within **DDH EB12-01**. This anomaly could indicate that the source is located at the east of the hole trace which fits with the **EM-PL-01** anomaly interpreted in **11N098** Project. Follow-up is left at client's discretion.

### DDH EB12-02

The borehole TDEM survey has detected two anomalies within **DDH EB12-02**. The signature at 180 m is weak and ill-defined, it is visible only from channels 11 to 13. The signature at 65 m could indicate that the source is located at the east of the hole trace which fits with the **EM-PL-02B** anomaly interpreted in **11N098** Project. Follow-up is left at client's discretion.

### DDH EB12-03

The borehole TDEM survey has detected two anomalies within **DDH EB12-03**. The off-hole signature anomaly could indicate that the source is located at the east of the hole trace which is pointing to **EM-PL-03** anomaly interpreted in **11N098** Project.

### DDH EB12-05

No significant anomalies associated with highly conductive sources were detected in **EB12-05**.

### DDH EB08-01

The borehole TDEM survey has detected one anomaly within **DDH EB08-01**. This signature anomaly is located on one station only. If this response is really geological and not instrumental, then it could be associated to **EM-PL-02A** conductor interpreted in **11N098** Project.

### DDH EB08-03

The borehole TDEM survey has detected two anomalies within **DDH EB08-01**. The two off-hole signatures could indicate that the source is located at the east of the hole trace and might have the same origin as **EM-PL-02B** interpreted from the **11N098** Project.

Tables 4 to 9 (next page) show a description of the borehole TDEM anomalies. A time constant (TAU) value has been computed from the decay curve analysis of numerous anomalous profile segments. As a general rule, a good conductor is characteristic of higher TAU values and implies a response throughout the later decay channels (i.e. up to channel 20). On the other hand a poor quality conductor generally has a lower TAU value and its signature may only be visible over early time channels. Yet another parameter that we have evaluated, more or less corresponding to a quarter of the EM signature wavelength ( $\lambda$ ), is the conductors' distance to the hole. The interpreted anomalies are represented by the symbol "◆" on the profiles (appendix B).

**Table 4. Description of borehole anomalies within DDH EB12-01**

<b>Client: Mustang Minerals Corp.</b>				<b>Project: East Bull Lake (Ref: 12N032B)</b>		
<b>Survey Type: Borehole TDEM</b>				<b>Date of Survey: May 3, 2012</b>		
<b>DDH: EB12-01</b>				<b>Tx Loops: EB12-01</b>		
<b>Collar Location</b>		<b>DDH Azimuth</b>	<b>DDH Dip</b>	<b>DDH Length</b>		
<b>UTM, NAD 27, zone 17N</b>	<b>Grid</b>					
409 755 mE	<b>Line: N/A</b>	180°	-70°	<b>Drilled: 152 m</b>		
5 141 555 mN	<b>Station: N/A</b>			<b>Surveyed: 20 - 140 m</b>		
<b>Survey results :</b>						
<b>Anomaly</b>	<b>Downhole location</b>	<b>Vertical Direction</b>	<b>Lateral Direction</b>	<b>Distance from hole</b>	<b>Conductor's Quality*</b>	<b>Comments</b>
<b>Off-hole</b>	45 m	Down dip	To the East	Close	Moderate TAU = 1.1 ms	Anomaly visible on channels 10 to 15. The signature seems to correspond to a moderate conductor.
<p>* To evaluate each anomaly's conductance, a time constant (TAU) value has been calculated for each of them. This value is computed from the decay curve. It can be used to compare conductors on the survey grid; the highest Tau value would come from massive and very conductive sulphides and the smallest from disseminated or poorly conductive mineralization.</p>						
<b>Conclusion &amp; recommendations:</b>						
<p>This anomaly could indicate that the source is located to the east of the hole trace which fits with the <b>EM-PL-01</b> anomaly interpreted from Project <b>11N098</b>. Follow-up is left to client's discretion.</p>						

**Table 5. Description of borehole anomalies within DDH EB12-02**

<b>Client: Mustang Minerals Corp.</b>				<b>Project: East Bull Lake (Ref: 12N032B)</b>		
<b>Survey Type: Borehole TDEM</b>				<b>Date of Survey: May 3, 2012</b>		
<b>DDH: EB12-02</b>				<b>Tx Loops: EB12-01</b>		
<b>Collar Location</b>		<b>DDH Azimuth</b>	<b>DDH Dip</b>	<b>DDH Length</b>		
<b>UTM, NAD 27, zone 17N</b>	<b>Grid</b>					
409 755 mE	<b>Line: N/A</b>	180°	-65°	<b>Drilled: 251 m</b>		
5 141 330 mN	<b>Station: N/A</b>			<b>Surveyed: 20 - 234 m</b>		
<b>Survey results :</b>						
<b>Anomaly</b>	<b>Downhole location</b>	<b>Vertical Direction</b>	<b>Lateral Direction</b>	<b>Distance from hole</b>	<b>Conductor's Quality*</b>	<b>Comments</b>
<b>Off-hole</b>	65 m	Up dip	To the East	Close	Moderate TAU = .3 ms	Anomaly visible on channels 10 to 15. The signature seems to correspond to a moderate conductor.
<b>Off-hole?</b>	180 m	?	? To the East	? Close	? Moderate TAU = 1.1 ms	Weak and ill-defined signature visible on channels 11 to 13.
<p>* To evaluate each anomaly's conductance, a time constant (TAU) value has been calculated for each of them. This value is computed from the decay curve. It can be used to compare conductors on the survey grid; the highest Tau value would come from massive and very conductive sulphides and the smallest from disseminated or poorly conductive mineralization.</p>						
<b>Conclusion &amp; recommendations:</b>						
<p>The anomaly and the weak signature could indicate that the source is located at the east of the hole trace which fits with the <b>EM-PL-02B</b> anomaly interpreted from Project <b>11N098</b>. Follow-up is left to client's discretion.</p>						

**Table 6. Description of borehole anomalies within DDH EB12-03**

<b>Client: Mustang Minerals Corp.</b>				<b>Project: East Bull Lake (Ref: 12N032B)</b>		
<b>Survey Type: Borehole TDEM</b>				<b>Date of Survey: May 2, 2012</b>		
<b>DDH: EB12-03</b>				<b>Tx Loops: EB12-01</b>		
<b>Collar Location</b>		<b>DDH Azimuth</b>	<b>DDH Dip</b>	<b>DDH Length</b>		
<b>UTM, NAD 27, zone 17N</b>	<b>Grid</b>					
409 550 mE	<b>Line: N/A</b>	180°	-55°	<b>Drilled: 300 m</b>		
5 141 390 mN	<b>Station: N/A</b>			<b>Surveyed: 20 - 283 m</b>		
<b>Survey results :</b>						
<b>Anomaly</b>	<b>Downhole location</b>	<b>Vertical Direction</b>	<b>Lateral Direction</b>	<b>Distance from hole</b>	<b>Conductor's Quality*</b>	<b>Comments</b>
<b>Off-hole</b>	90 m	-	? To the East	?	Moderate TAU = 1.6 ms	Anomaly visible on channels 10 to 20. The signature seems to correspond to a moderate conductor.
<b>In-hole?</b>	130 m	-	-	-	? Moderate TAU = 0.8 ms	Small in-hole signature visible on channels 10 to 20. The time constant indicates that this signature could correspond to a moderate conductor.
<p>* To evaluate each anomaly's conductance, a time constant (TAU) value has been calculated for each of them. This value is computed from the decay curve. It can be used to compare conductors on the survey grid; the highest Tau value would come from massive and very conductive sulphides and the smallest from disseminated or poorly conductive mineralization.</p>						
<b>Conclusion &amp; recommendations:</b>						
<p>The off-hole signature could indicate that the source is located to the east of the hole trace which pointing points to the <b>EM-PL-03</b> anomaly interpreted from Project <b>11N098</b>. Follow-up is left to client's discretion.</p>						

**Table 7. Description of borehole anomalies within DDH EB08-01**

<b>Client: Mustang Minerals Corp.</b>			<b>Project: East Bull Lake (Ref: 12N032B)</b>			
<b>Survey Type: Borehole TDEM</b>			<b>Date of Survey: May 3, 2012</b>			
<b>DDH: EB08-01</b>			<b>Tx Loops: EB12-01</b>			
<b>Collar Location</b>		<b>DDH Azimuth</b>	<b>DDH Dip</b>	<b>DDH Length</b>		
<b>UTM, NAD 27, zone 17N</b>	<b>Grid</b>					
409 350 mE	<b>Line: N/A</b>	180°	-45°	<b>Drilled: 240 m</b>		
5 141 378 mN	<b>Station: N/A</b>			<b>Surveyed: 20 - 225 m</b>		
<b>Survey results :</b>						
<b>Anomaly</b>	<b>Downhole location</b>	<b>Vertical Direction</b>	<b>Lateral Direction</b>	<b>Distance from hole</b>	<b>Conductor's Quality*</b>	<b>Comments</b>
<b>Off-hole</b>	185 m	? Up dip	? To the East	? close	Moderate TAU = 1.2 ms	Small anomaly visible on channels 9 to 13. The signature visible on one station only. If it is not artificial this signature might correspond to a moderate conductor.
<p>* To evaluate each anomaly's conductance, a time constant (TAU) value has been calculated for each of them. This value is computed from the decay curve. It can be used to compare conductors on the survey grid; the highest Tau value would come from massive and very conductive sulphides and the smallest from disseminated or poorly conductive mineralization.</p>						
<b>Conclusion &amp; recommendations:</b>						
<p>If this off-hole signature is real, it could indicate the extension of the conductor <b>EM-PL-02A</b> interpreted from Project <b>11N098</b>. Follow-up is left to client's discretion.</p>						

**Table 8. Description of borehole anomalies within DDH EB08-03**

<b>Client: Mustang Minerals Corp.</b>				<b>Project: East Bull Lake (Ref: 12N032B)</b>		
<b>Survey Type: Borehole TDEM</b>				<b>Date of Survey: May 5, 2012</b>		
<b>DDH: EB08-03</b>				<b>Tx Loops: EB12-01</b>		
<b>Collar Location</b>		<b>DDH Azimuth</b>	<b>DDH Dip</b>	<b>DDH Length</b>		
<b>UTM, NAD 27, zone 17N</b>	<b>Grid</b>					
409 582 mE	<b>Line: N/A</b>	180°	-50°	<b>Drilled: 195 m</b>		
5 141 173 mN	<b>Station: N/A</b>			<b>Surveyed: 20 - 180 m</b>		
<b>Survey results :</b>						
<b>Anomaly</b>	<b>Downhole location</b>	<b>Vertical Direction</b>	<b>Lateral Direction</b>	<b>Distance from hole</b>	<b>Conductor's Quality*</b>	<b>Comments</b>
<b>Off-hole</b>	70 m	Up dip	To the East	Close	Moderate TAU = 1.8 ms	Anomaly visible on channels 8 to 20. The signature seems to correspond to a moderate conductor.
<b>Off-hole</b>	125 m	Up dip	To the East	To the East	Moderate TAU = 1.8 ms	Anomaly visible on channels 10 to 20. The signature visible on one station only. If it is not artificial, this signature might correspond to a moderate conductor.
<p>* To evaluate each anomaly's conductance, a time constant (TAU) value has been calculated for each of them. This value is computed from the decay curve. It can be used to compare conductors on the survey grid; the highest Tau value would come from massive and very conductive sulphides and the smallest from disseminated or poorly conductive mineralization.</p>						
<b>Conclusion &amp; recommendations:</b>						
<p>The two off-hole signatures could indicate that the source is located at the east of the hole trace and might have the same origin as to the <b>EM-PL-02B</b> anomaly interpreted from Project <b>11N098</b>. Follow-up is left to client's discretion.</p>						

**Table 9. Description of borehole anomalies within DDH EB12-05**

<b>Client: Mustang Minerals Corp.</b>		<b>Project:</b> East Bull Lake (Ref: 12N032B)		
<b>Survey Type:</b> Borehole TDEM		<b>Date of Survey:</b> May 5, 2012		
<b>DDH:</b> EB012-05		<b>Tx Loops:</b> EB012-02		
<b>Collar Location</b>		<b>DDH Azimuth</b>	<b>DDH Dip</b>	<b>DDH Length</b>
<b>UTM, NAD 27, zone 17N</b>	<b>Grid</b>			
441 000 mE	<b>Line:</b> N/A	220°	-80°	<b>Drilled:</b> 650 m
5 143 380 mN	<b>Station:</b> N/A			<b>Surveyed:</b> 20 - 445 m
<b>Conclusion:</b>				
No anomalies associated with highly conductive sources were detected in EB12-05.				

The interpretation of the geophysical data embodied in this report is essentially a geophysical appraisal of the East Bull Lake Project. As such, it incorporates only as much geoscientific information as the author has on hand at the time. Geoscientists 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 downgraded or upgraded.

Respectfully submitted,  
 Abitibi Geophysics Inc.

Mahdi Brakni, M.Eng.  
 Project manager

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MD/mw

## **APPENDIX A**

**DAILY REPORT OF THE GEOPHYSICAL SURVEY  
PERFORMED ON THE EAST BULL LAKE PROJECT**

# APPENDIX A



## DAILY REPORT OF THE GEOPHYSICAL SURVEY PERFORMED ON THE EAST BULL LAKE PROJECT

Date (yyyy-mm-dd)	12N032B, Mustang Minerals Corp., East Bull Lake Project, Ground TDEM survey	Invoicing				
	Activity	Mob/ demob	Boat	ATV	Down- time	Days
<b>Project geophysicist:</b>	Mahdi Brakni					
<b>Crew chief:</b>	Pierre Alexandre Crépeau (surface) David Giroux ( borehole)					
<b>Assistants:</b>						
<b>BH TDEM</b>						
2012-04-25	Mobilization.	N/C				
2012-04-26	Installation of Bullfrog loop.		1	2		1
2012-04-27	Installation of Bullfrog loop.			2		1
2012-04-28	Dummy probe verification and survey of hole ME00-21 Ext.			2		1
2012-04-29	Dummy probe verification and survey of hole ME00-19 Ext.			2		1
2012-04-30	Dummy probe verification and of hole ME00-17 Ext.			2		1
2012-05-01	Installation of Parisean loop.			2		1
2012-05-02	Survey holes EB12-03 and EB08-03.			2		1
2012-05-03	Survey holes EB12-01, EB12-02 and EB08-01.			2		1
2012-05-04	Install loop hole EB12-05.			2		1
2012-05-05	Survey EB12-05.			2		1
2012-05-06	Demobilization, Pick up loop East Bull Lake and return to Val-d'Or.	N/C		2		0.5
	<b>Total Bullfrog, Parisean and East Bull Lake</b>	-	1	22		10.5
	<b>Total</b>	<b>2 days</b>	<b>5 boats</b>	<b>34 ATV's</b>	<b>0</b>	<b>16.5 days</b>

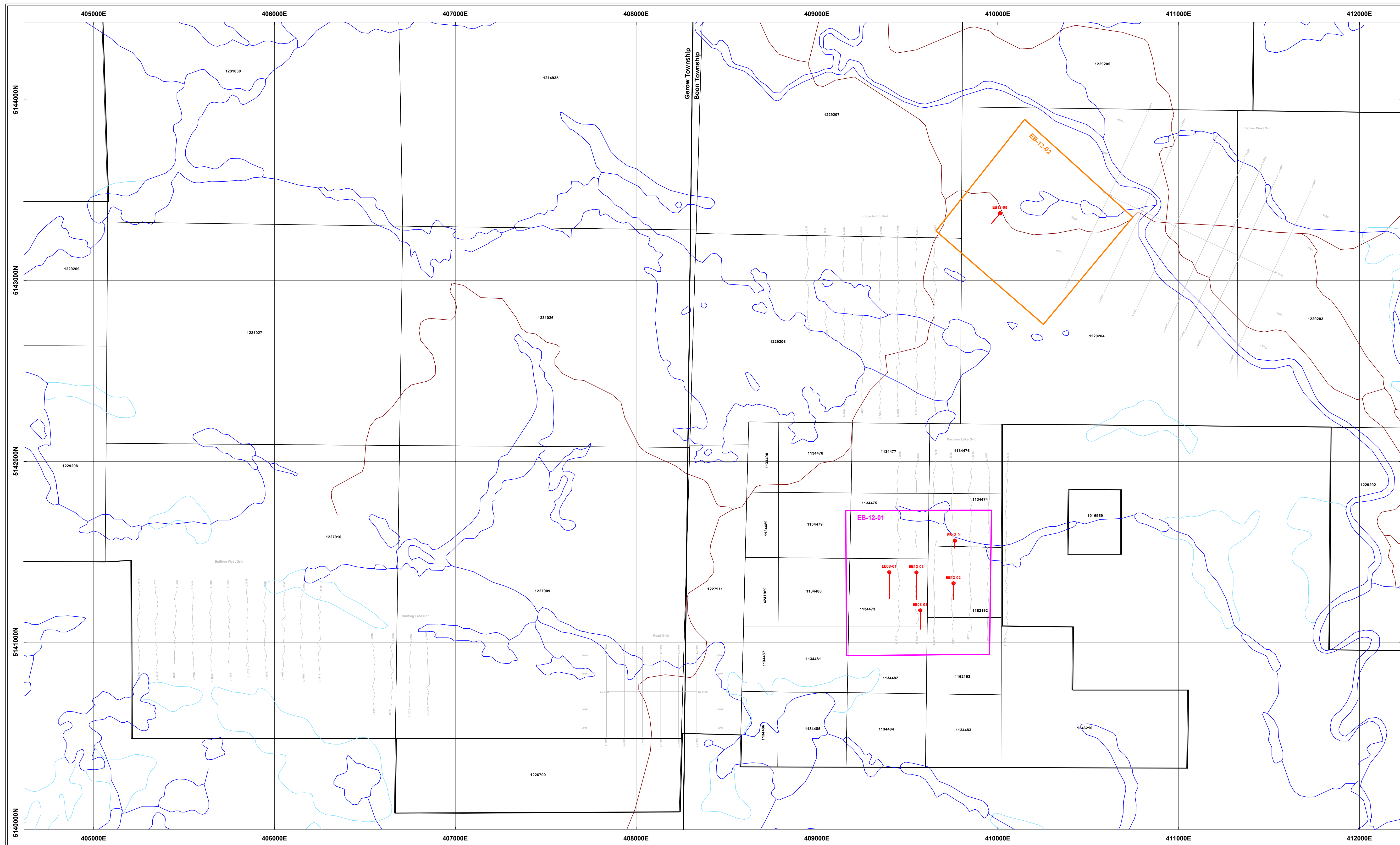
## APPENDIX B

### BOREHOLE TDEM SURVEY PROFILES OF SECONDARY MAGNETIC FIELD PARTIAL DERIVATIVES:

$$\partial B_z / \partial t$$

$$\partial B_x / \partial t$$

$$\partial B_y / \partial t$$



**LEGEND**

Borehole InfiniTEM® Survey

- InfiniTEM® Transmitting Loop Outlines
- Diamond Drill Hole

Scale 1:10 000

NA8207 / UTM zone 17N

**Mustang Minerals Corp.**  
**East Bull Lake Project**  
**Gerow and Boon Townships, Ontario**

**Transmitting Loop Outlines  
 & DDH Locations**

Interpreted by: M. Brakni, M.Eng.	2012/07
Surveyed by: Abitibi Geophysics Inc.	2012/04
Approved by: M. Dubois, P.Geo.	2012/07
Reference map: 41J/08	Scale 1:10 000
Project no: 12N032B	Map no: 10.0



**WINDOW TIMES (ms): Centre  
From the start of the Ramp**

1 : 0.6581	11 : 1.369
2 : 0.6769	12 : 1.584
3 : 0.7013	13 : 1.857
4 : 0.7319	14 : 2.206
5 : 0.7706	15 : 2.651
6 : 0.8206	16 : 3.218
7 : 0.8844	17 : 3.943
8 : 0.9656	18 : 4.867
9 : 1.069	19 : 6.045
10 : 1.201	20 : 7.548

**SURVEY PARAMETERS**

Configuration : InfiniTEM®  
Station Spacings : 5 m & 10 m

**RECEIVER**

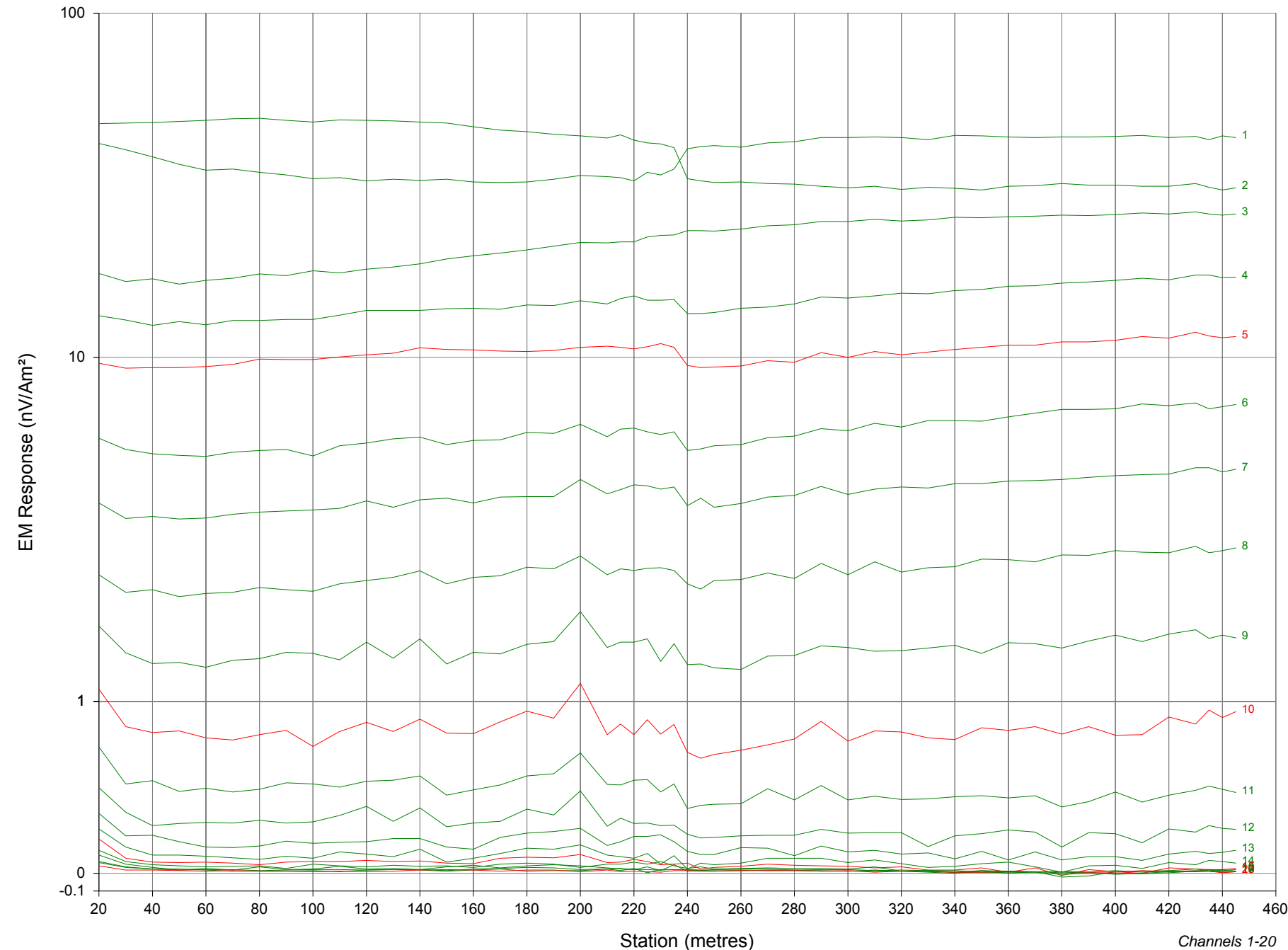
Geonics : PROTEM 67D  
Frequency : 30 Hz  
Component : Z  
Rx Coil : BH43-3  
Rx Area : 100 m²

**TRANSMITTER**

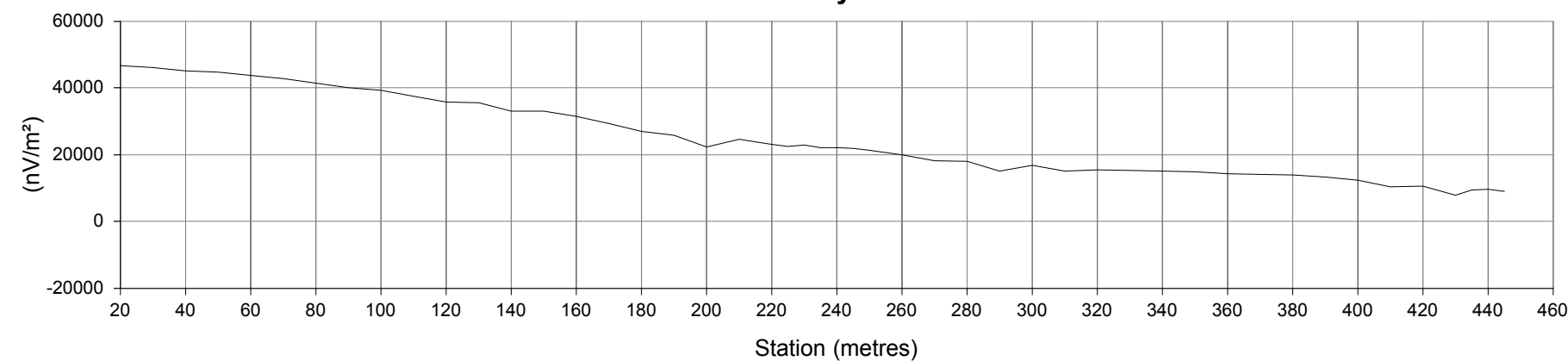
TerraScope : PRO5U  
Loop : EB-12-02  
Tx Turn : 1  
Tx Current : 20 A  
Off Time : 8.333 ms  
Turn Off : ~570 µs



**Z Component**



**Primary Field**



Abitibi Geophysics Inc.

Mustang Minerals Corp.  
East Bull Lake Project  
Borehole InfiniTEM® Survey  
Z Component  
Hole EB12-05  
12N032B

By : M. Brakni

Date : May 2012

Verif. : M. Dubois

Scale 1:2000



**WINDOW TIMES (ms): Centre  
From the start of the Ramp**

1 : 0.6581	11 : 1.369
2 : 0.6769	12 : 1.584
3 : 0.7013	13 : 1.857
4 : 0.7319	14 : 2.206
5 : 0.7706	15 : 2.651
6 : 0.8206	16 : 3.218
7 : 0.8844	17 : 3.943
8 : 0.9656	18 : 4.867
9 : 1.069	19 : 6.045
10 : 1.201	20 : 7.548

**SURVEY PARAMETERS**

Configuration : InfiniTEM®  
Station Spacings : 5 m & 10 m

**RECEIVER**

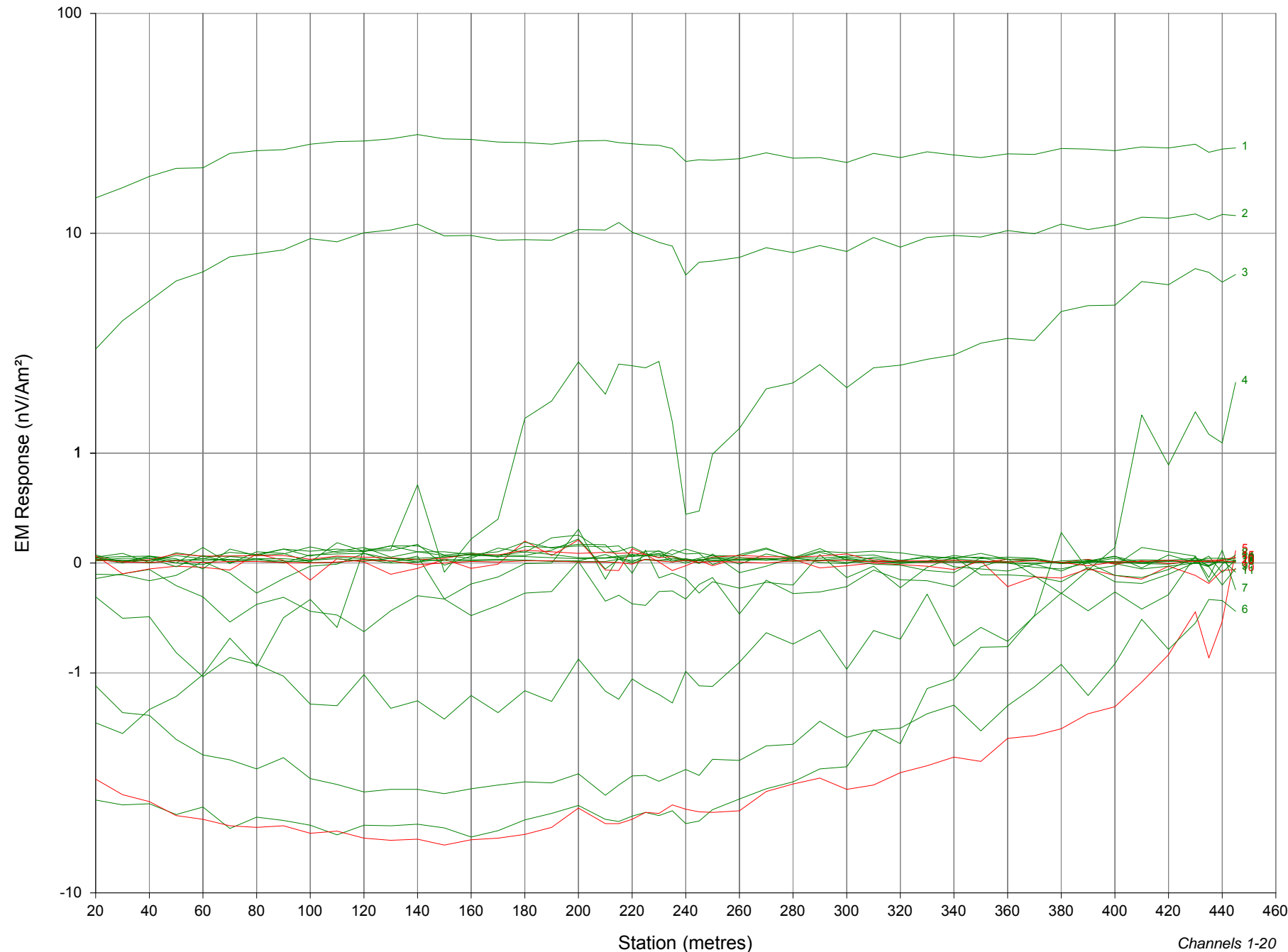
Geonics : PROTEM 67D  
Frequency : 30 Hz  
Component : Y  
Rx Coil : BH43-3  
Rx Area : 100 m²

**TRANSMITTER**

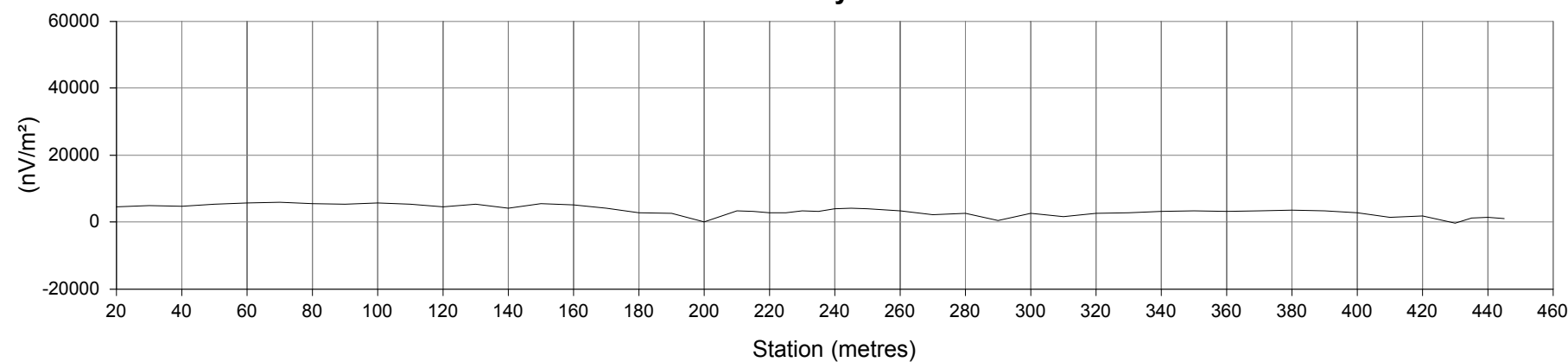
TerraScope : PRO5U  
Loop : EB-12-02  
Tx Turn : 1  
Tx Current : 20 A  
Off Time : 8.333 ms  
Turn Off : ~570 µs



**Y Component**



**Primary Field**



Abitibi Geophysics Inc.

Mustang Minerals Corp.  
East Bull Lake Project  
Borehole InfiniTEM® Survey  
Y Component  
Hole EB12-05  
12N032B

By : M. Brakni

Date : May 2012

Verif. : M. Dubois

Scale 1:2000



**WINDOW TIMES (ms): Centre  
From the start of the Ramp**

1 : 0.6581	11 : 1.369
2 : 0.6769	12 : 1.584
3 : 0.7013	13 : 1.857
4 : 0.7319	14 : 2.206
5 : 0.7706	15 : 2.651
6 : 0.8206	16 : 3.218
7 : 0.8844	17 : 3.943
8 : 0.9656	18 : 4.867
9 : 1.069	19 : 6.045
10 : 1.201	20 : 7.548

**SURVEY PARAMETERS**

Configuration : InfiniTEM®  
Station Spacings : 5 m & 10 m

**RECEIVER**

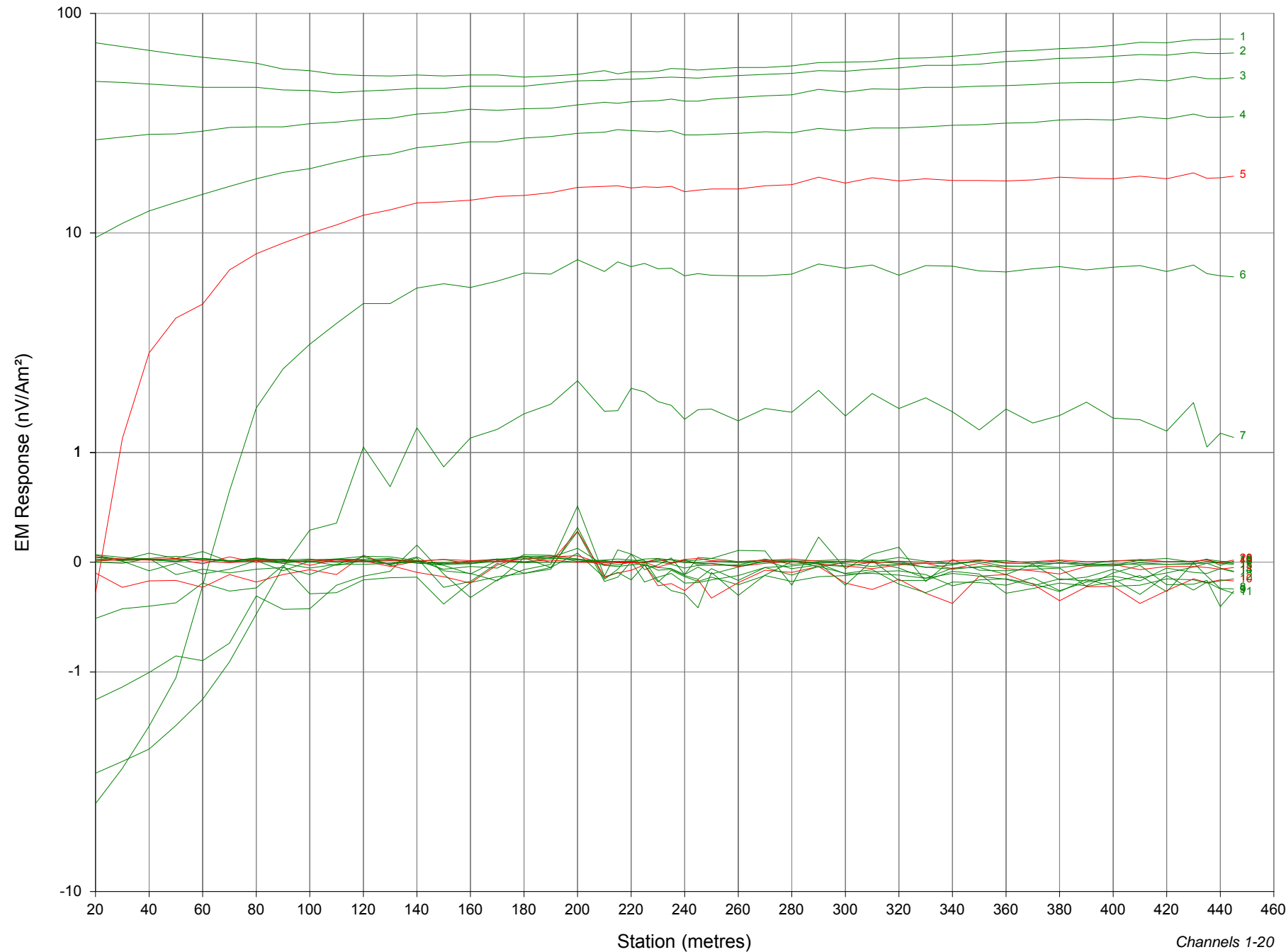
Geonics : PROTEM 67D  
Frequency : 30 Hz  
Component : X  
Rx Coil : BH43-3  
Rx Area : 100 m²

**TRANSMITTER**

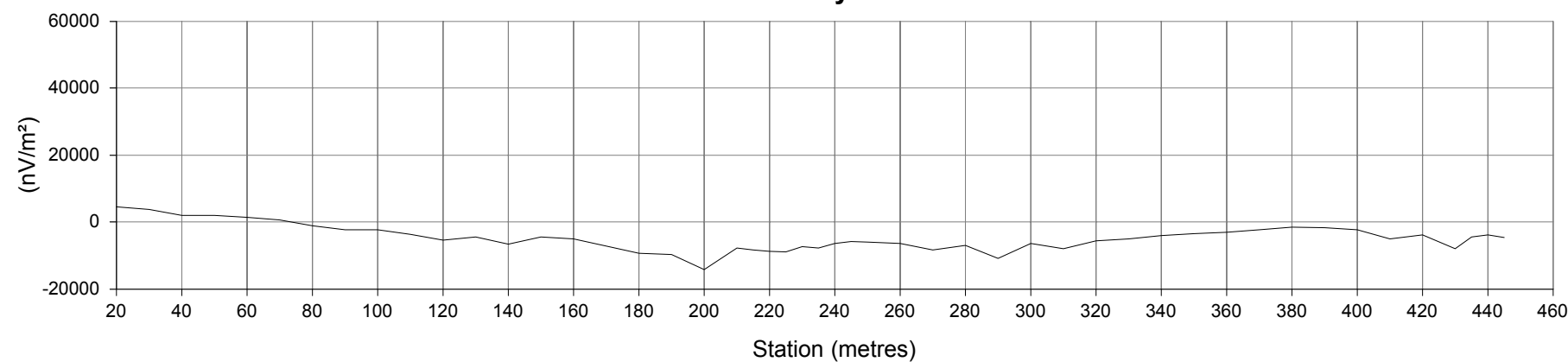
TerraScope : PRO5U  
Loop : EB-12-02  
Tx Turn : 1  
Tx Current : 20 A  
Off Time : 8.333 ms  
Turn Off : ~570 µs



**X Component**



**Primary Field**



Abitibi Geophysics Inc.

Mustang Minerals Corp.  
East Bull Lake Project  
Borehole InfiniTEM® Survey  
X Component  
Hole EB12-05  
12N032B

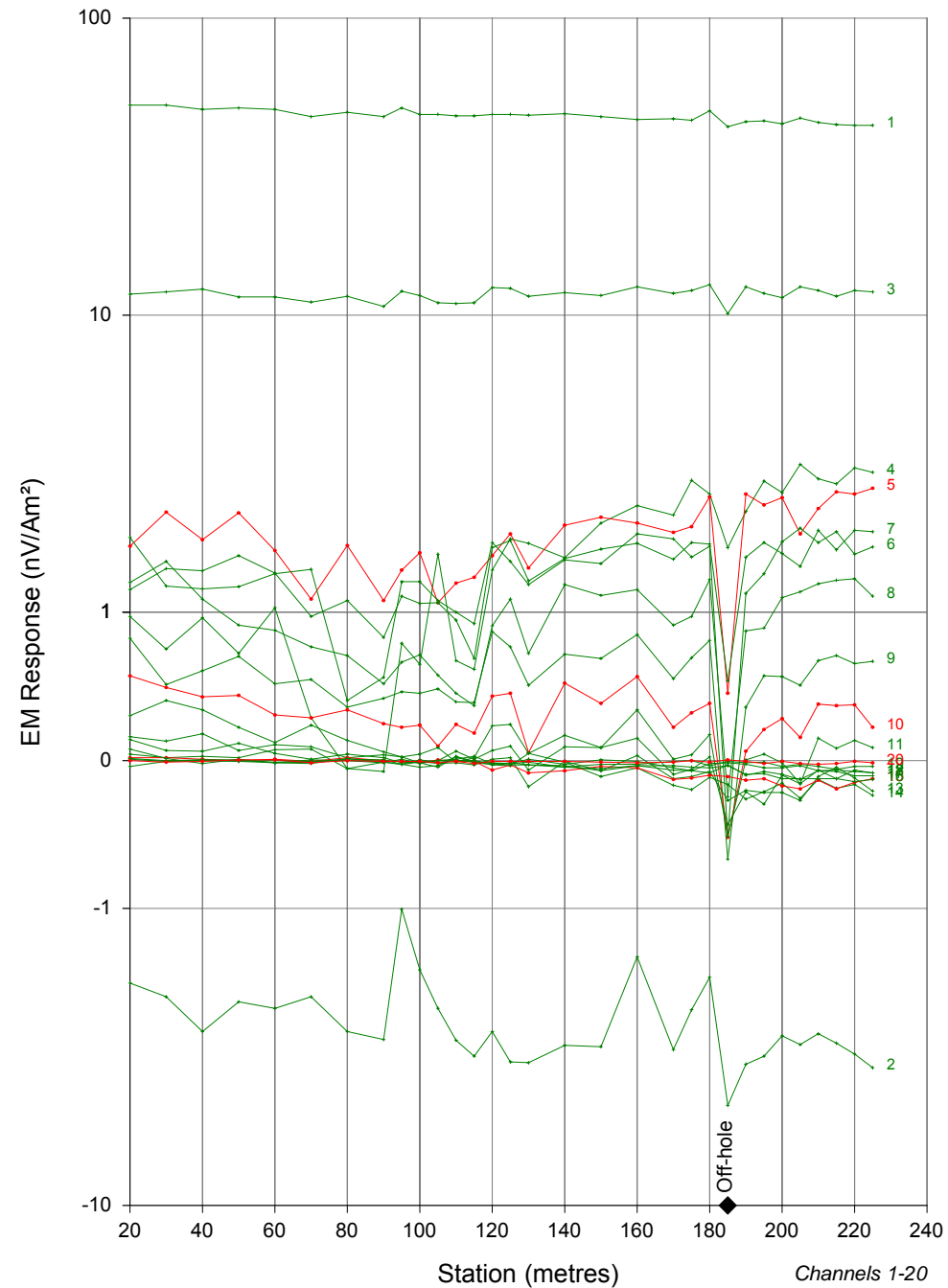
By : M. Brakni

Date : May 2012

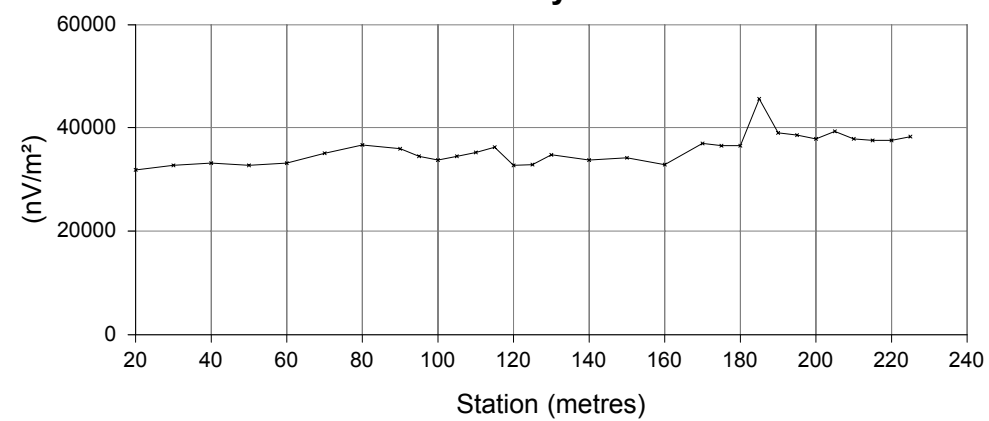
Verif. : M. Dubois

Scale 1:2000

### Z Component



### Primary Field



#### WINDOW TIMES (ms): Centre From the start of the Ramp

1	: 0.6581	11	: 1.369
2	: 0.6769	12	: 1.584
3	: 0.7013	13	: 1.857
4	: 0.7319	14	: 2.206
5	: 0.7706	15	: 2.651
6	: 0.8206	16	: 3.218
7	: 0.8844	17	: 3.943
8	: 0.9656	18	: 4.867
9	: 1.069	19	: 6.045
10	: 1.201	20	: 7.548

#### SURVEY PARAMETERS

Configuration : InfiniTEM®  
Station Spacings : 5 m & 10 m

#### RECEIVER

Geonics : PROTEM 67D  
Frequency : 30 Hz  
Component : Z  
Rx Coil : BH43-3  
Rx Area : 100 m<sup>2</sup>

#### TRANSMITTER

TerraScope : PRO5U  
Loop : EB-12-01  
Tx Turn : 1  
Tx Current : 20 A  
Off Time : 8.333 ms  
Turn Off : ~570 µs



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Z Component  
Hole EB08-01  
12N032B

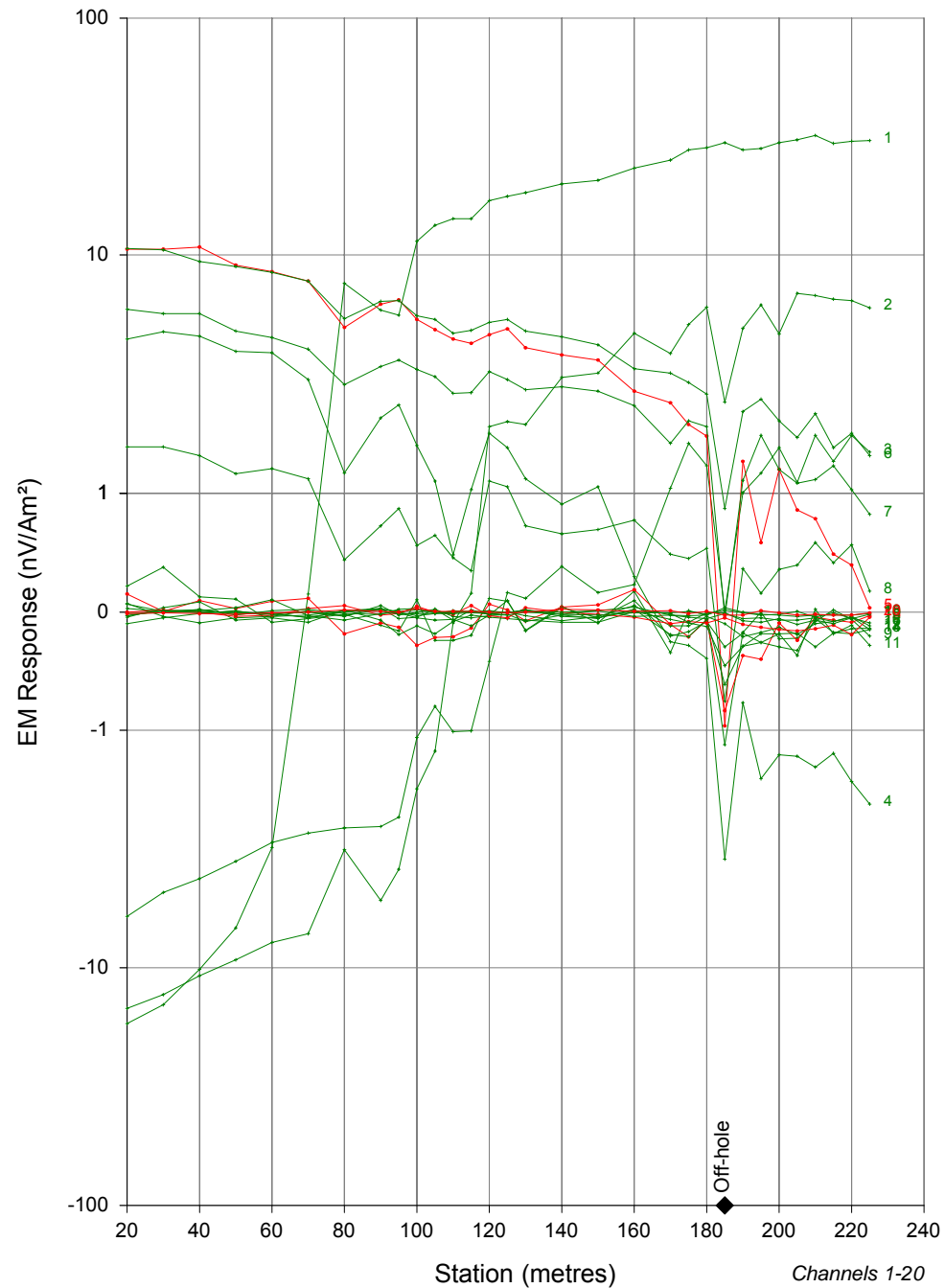
By : M. Brakni

Date : May 2012

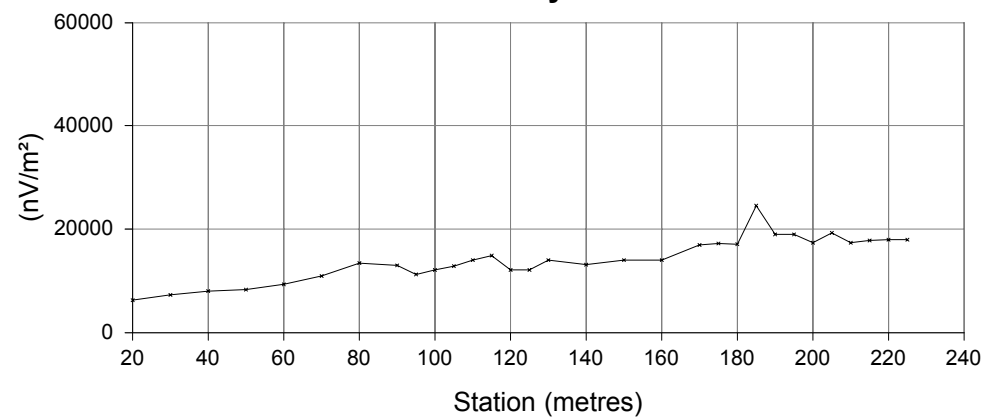
Verif. : M. Dubois

Scale 1:2000

### Y Component



### Primary Field



#### WINDOW TIMES (ms): Centre From the start of the Ramp

1 : 0.6581	11 : 1.369
2 : 0.6769	12 : 1.584
3 : 0.7013	13 : 1.857
4 : 0.7319	14 : 2.206
5 : 0.7706	15 : 2.651
6 : 0.8206	16 : 3.218
7 : 0.8844	17 : 3.943
8 : 0.9656	18 : 4.867
9 : 1.069	19 : 6.045
10 : 1.201	20 : 7.548

#### SURVEY PARAMETERS

Configuration : InfiniTEM®  
Station Spacings : 5 m & 10 m

#### RECEIVER

Geonics : PROTEM 67D  
Frequency : 30 Hz  
Component : Y  
Rx Coil : BH43-3  
Rx Area : 100 m<sup>2</sup>

#### TRANSMITTER

TerraScope : PRO5U  
Loop : EB-12-01  
Tx Turn : 1  
Tx Current : 20 A  
Off Time : 8.333 ms  
Turn Off : ~570 μs



Abitibi Geophysics Inc.

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Y Component  
Hole EB08-01  
12N032B

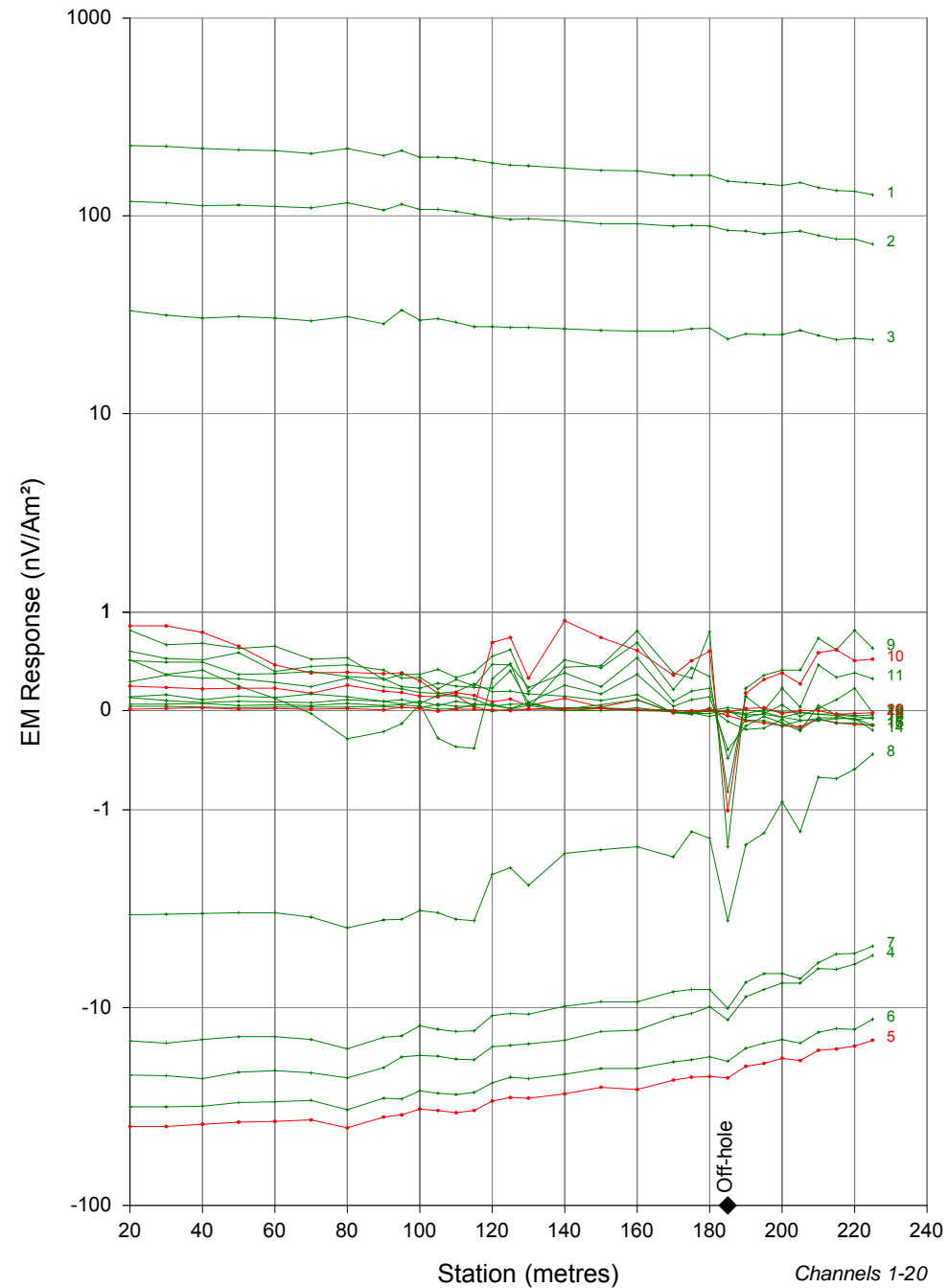
By : M. Brakni

Date : May 2012

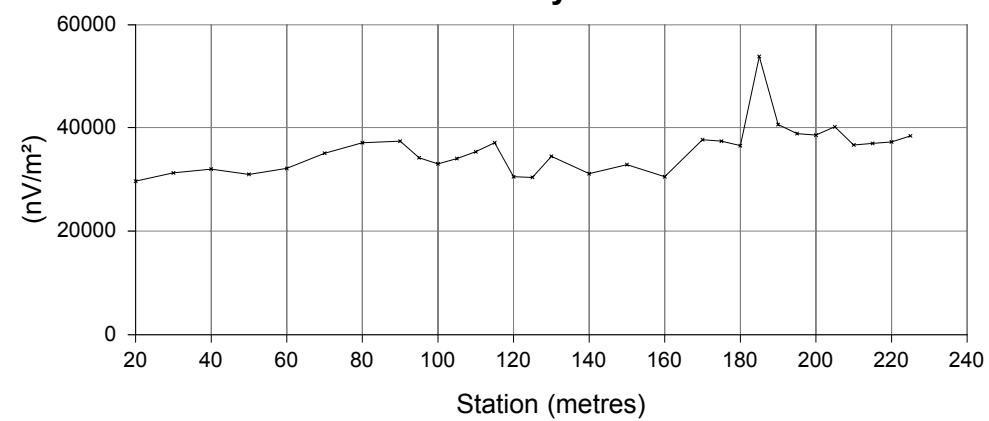
Verif. : M. Dubois

Scale 1:2000

### X Component



### Primary Field



#### WINDOW TIMES (ms): Centre From the start of the Ramp

1	: 0.6581	11	: 1.369
2	: 0.6769	12	: 1.584
3	: 0.7013	13	: 1.857
4	: 0.7319	14	: 2.206
5	: 0.7706	15	: 2.651
6	: 0.8206	16	: 3.218
7	: 0.8844	17	: 3.943
8	: 0.9656	18	: 4.867
9	: 1.069	19	: 6.045
10	: 1.201	20	: 7.548

#### SURVEY PARAMETERS

Configuration : InfiniTEM®  
Station Spacings : 5 m & 10 m

#### RECEIVER

Geonics : PROTEM 67D  
Frequency : 30 Hz  
Component : X  
Rx Coil : BH43-3  
Rx Area : 100 m<sup>2</sup>

#### TRANSMITTER

TerraScope : PRO5U  
Loop : EB-12-01  
Tx Turn : 1  
Tx Current : 20 A  
Off Time : 8.333 ms  
Turn Off : ~570 µs



Abitibi Geophysics Inc.

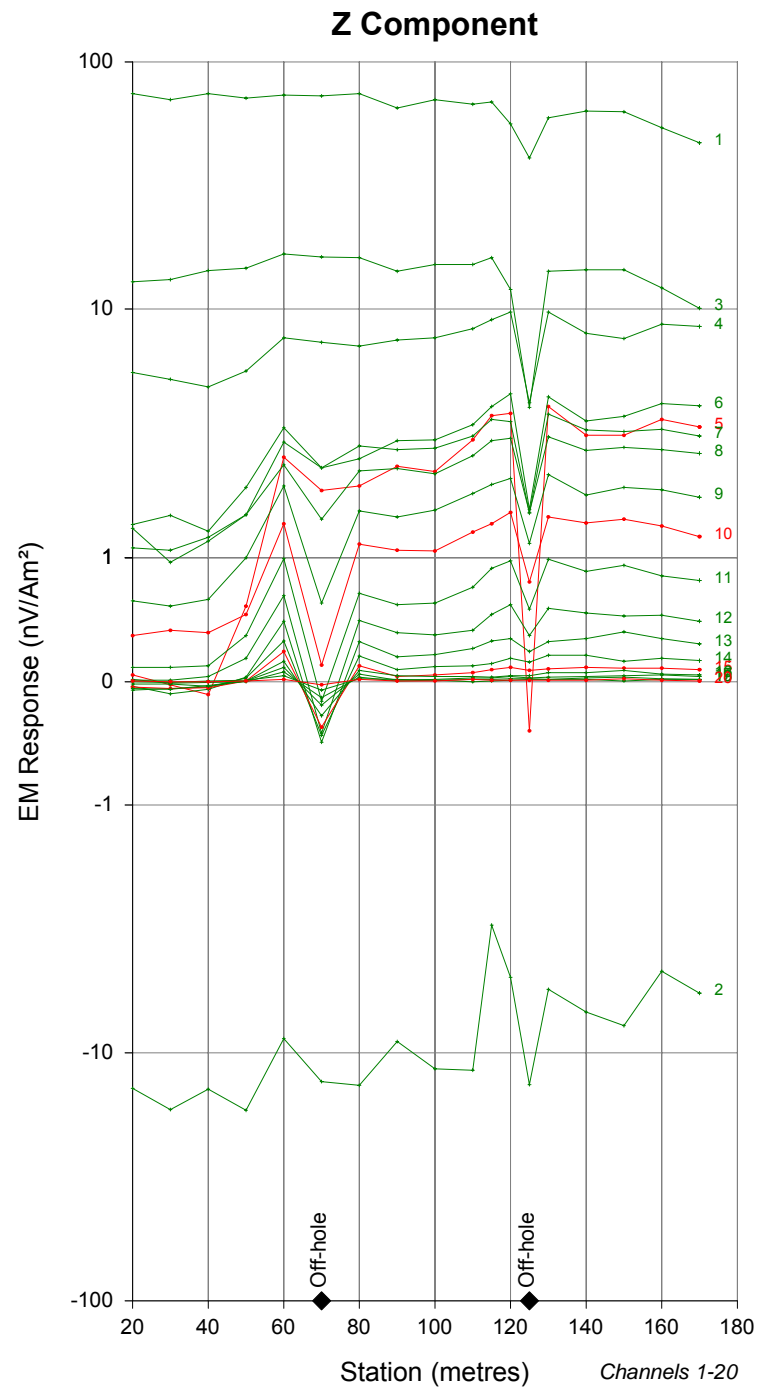
Mustang Minerals Corp.  
East Bull Lake Project  
Borehole InfiniTEM® Survey  
X Component  
Hole EB08-01  
12N032B

By : M. Brakni

Date : May 2012

Verif. : M. Dubois

Scale 1:2000



**WINDOW TIMES (ms): Centre  
From the start of the Ramp**

1 : 0.6481	11 : 1.359
2 : 0.6669	12 : 1.574
3 : 0.6913	13 : 1.847
4 : 0.7219	14 : 2.196
5 : 0.7606	15 : 2.641
6 : 0.8106	16 : 3.208
7 : 0.8744	17 : 3.933
8 : 0.9556	18 : 4.857
9 : 1.059	19 : 6.035
10 : 1.191	20 : 7.538

**SURVEY PARAMETERS**

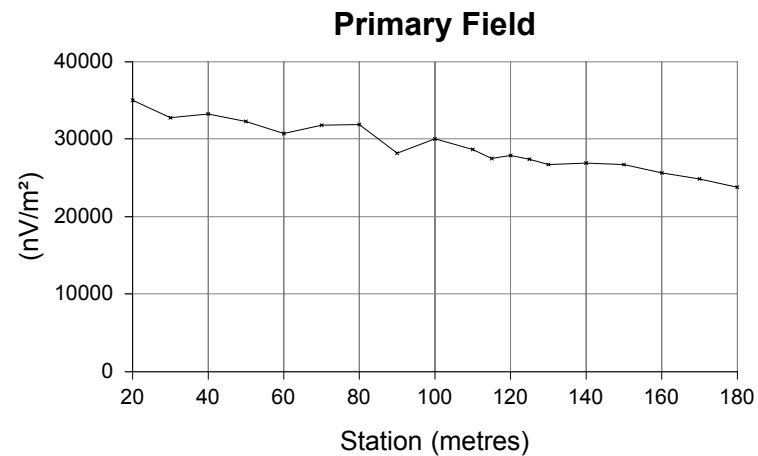
Configuration : InfiniTEM®  
Station Spacings : 5 m & 10 m

**RECEIVER**

Geonics : PROTEM 67D  
Frequency : 30 Hz  
Component : Z  
Rx Coil : BH43-3  
Rx Area : 100 m<sup>2</sup>

**TRANSMITTER**

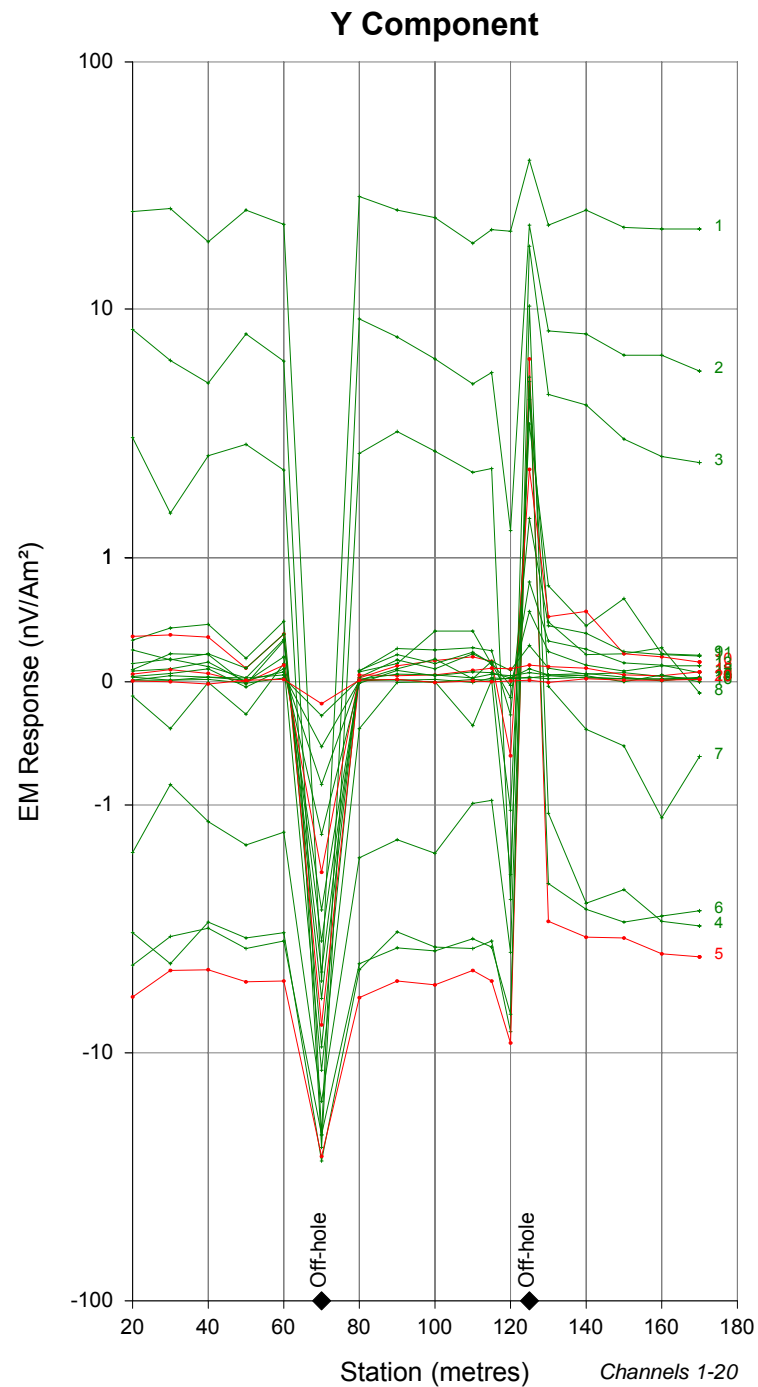
TerraScope : PRO5U  
Loop : EB-12-01  
Tx Turn : 1  
Tx Current : 20 A  
Off Time : 8.333 ms  
Turn Off : ~570 µs



Abitibi Geophysics Inc.

Mustang Minerals Corp.  
East Bull Lake Project  
Borehole InfiniTEM® Survey  
Z Component  
Hole EB08-03  
12N032B

By : M. Brakni	Date : May 2012
Verif. : M. Dubois	Scale 1:2000



**WINDOW TIMES (ms): Centre  
From the start of the Ramp**

1 : 0.6481	11 : 1.359
2 : 0.6669	12 : 1.574
3 : 0.6913	13 : 1.847
4 : 0.7219	14 : 2.196
5 : 0.7606	15 : 2.641
6 : 0.8106	16 : 3.208
7 : 0.8744	17 : 3.933
8 : 0.9556	18 : 4.857
9 : 1.059	19 : 6.035
10 : 1.191	20 : 7.538

**SURVEY PARAMETERS**

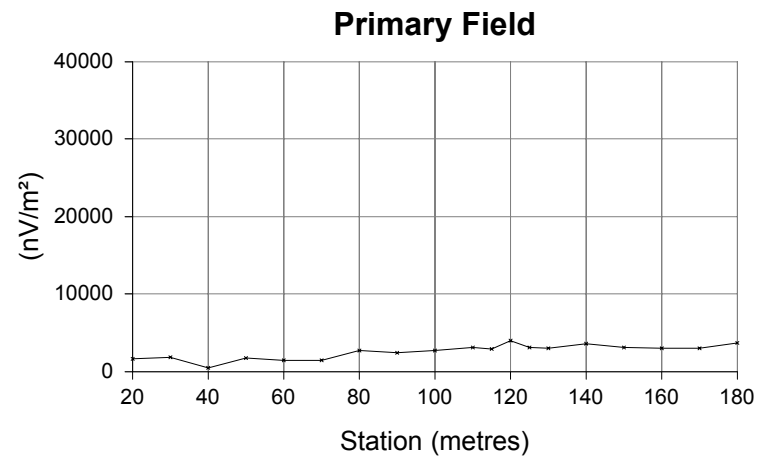
Configuration : InfiniTEM®  
Station Spacings : 5 m & 10 m

**RECEIVER**

Geonics : PROTEM 67D  
Frequency : 30 Hz  
Component : Y  
Rx Coil : BH43-3  
Rx Area : 100 m²

**TRANSMITTER**

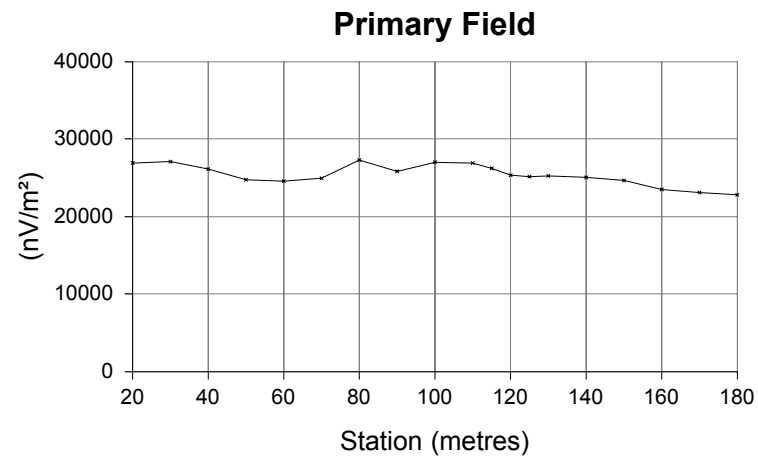
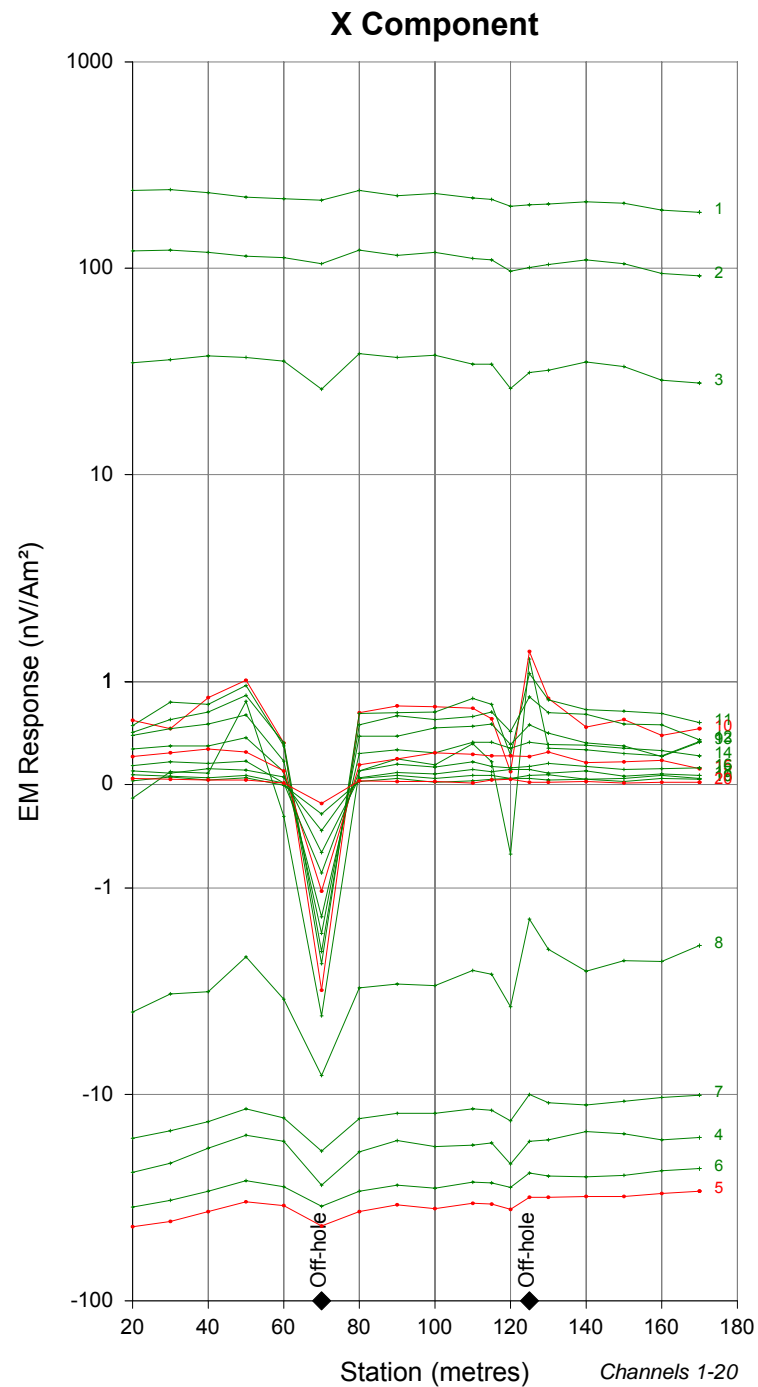
TerraScope : PRO5U  
Loop : EB-12-01  
Tx Turn : 1  
Tx Current : 20 A  
Off Time : 8.333 ms  
Turn Off : ~570 µs



Abitibi Geophysics Inc.

Mustang Minerals Corp.  
East Bull Lake Project  
Borehole InfiniTEM® Survey  
Y Component  
Hole EB08-03  
12N032B

By : M. Brakni	Date : May 2012
Verif. : M. Dubois	Scale 1:2000



**WINDOW TIMES (ms): Centre  
From the start of the Ramp**

1 : 0.6481	11 : 1.359
2 : 0.6669	12 : 1.574
3 : 0.6913	13 : 1.847
4 : 0.7219	14 : 2.196
5 : 0.7606	15 : 2.641
6 : 0.8106	16 : 3.208
7 : 0.8744	17 : 3.933
8 : 0.9556	18 : 4.857
9 : 1.059	19 : 6.035
10 : 1.191	20 : 7.538

**SURVEY PARAMETERS**

Configuration : InfiniTEM®  
Station Spacings : 5 m & 10 m

**RECEIVER**

Geonics : PROTEM 67D  
Frequency : 30 Hz  
Component : X  
Rx Coil : BH43-3  
Rx Area : 100 m²

**TRANSMITTER**

TerraScope : PRO5U  
Loop : EB-12-01  
Tx Turn : 1  
Tx Current : 20 A  
Off Time : 8.333 ms  
Turn Off : ~570 µs

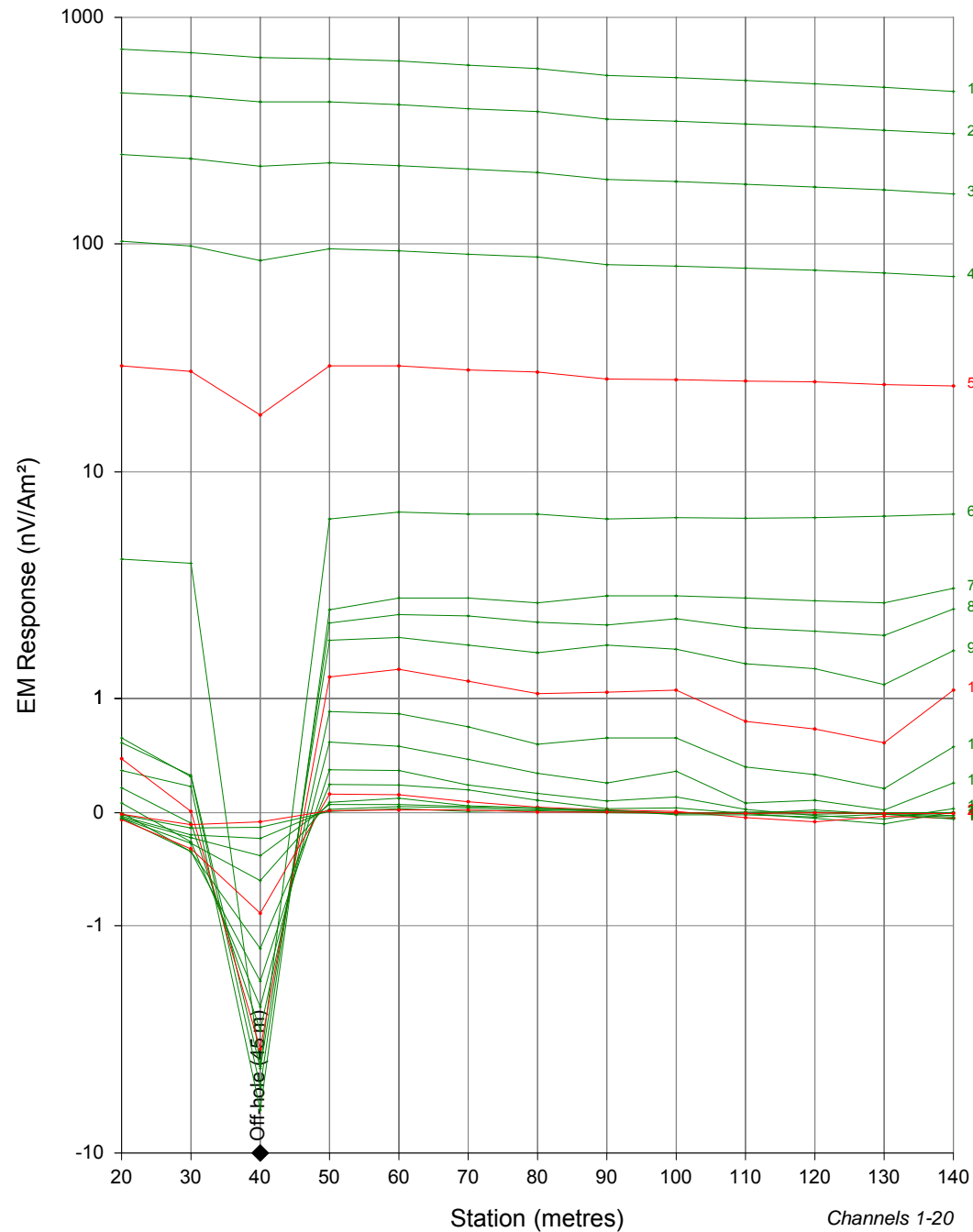


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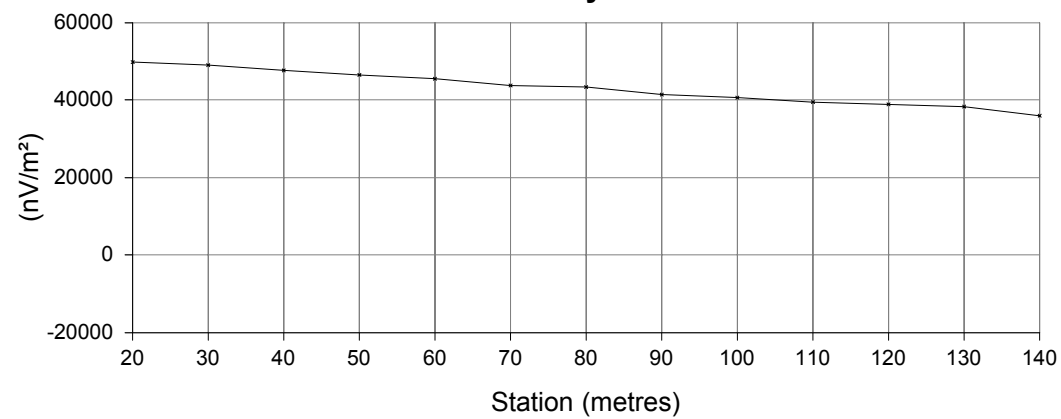
Mustang Minerals Corp.  
East Bull Lake Project  
Borehole InfiniTEM® Survey  
X Component  
Hole EB08-03  
12N032B

By : M. Brakni	Date : May 2012
Verif. : M. Dubois	Scale 1:2000

### Z Component



### Primary Field



#### WINDOW TIMES (ms): Centre From the start of the Ramp

1	: 0.6581	11	: 1.369
2	: 0.6769	12	: 1.584
3	: 0.7013	13	: 1.857
4	: 0.7319	14	: 2.206
5	: 0.7706	15	: 2.651
6	: 0.8206	16	: 3.218
7	: 0.8844	17	: 3.943
8	: 0.9656	18	: 4.867
9	: 1.069	19	: 6.045
10	: 1.201	20	: 7.548

#### SURVEY PARAMETERS

Configuration : InfiniTEM®  
Station Spacing : 10 m

#### RECEIVER

Geonics : PROTEM 67D  
Frequency : 30 Hz  
Component : Z  
Rx Coil : BH43-3  
Rx Area : 100 m<sup>2</sup>

#### TRANSMITTER

TerraScope : PRO5U  
Loop : EB-12-01  
Tx Turn : 1  
Tx Current : 20 A  
Off Time : 8.333 ms  
Turn Off : ~570 µs



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Mustang Minerals Corp.  
East Bull Lake Project  
Borehole InfiniTEM® Survey  
Z Component  
Hole EB12-01  
12N032B

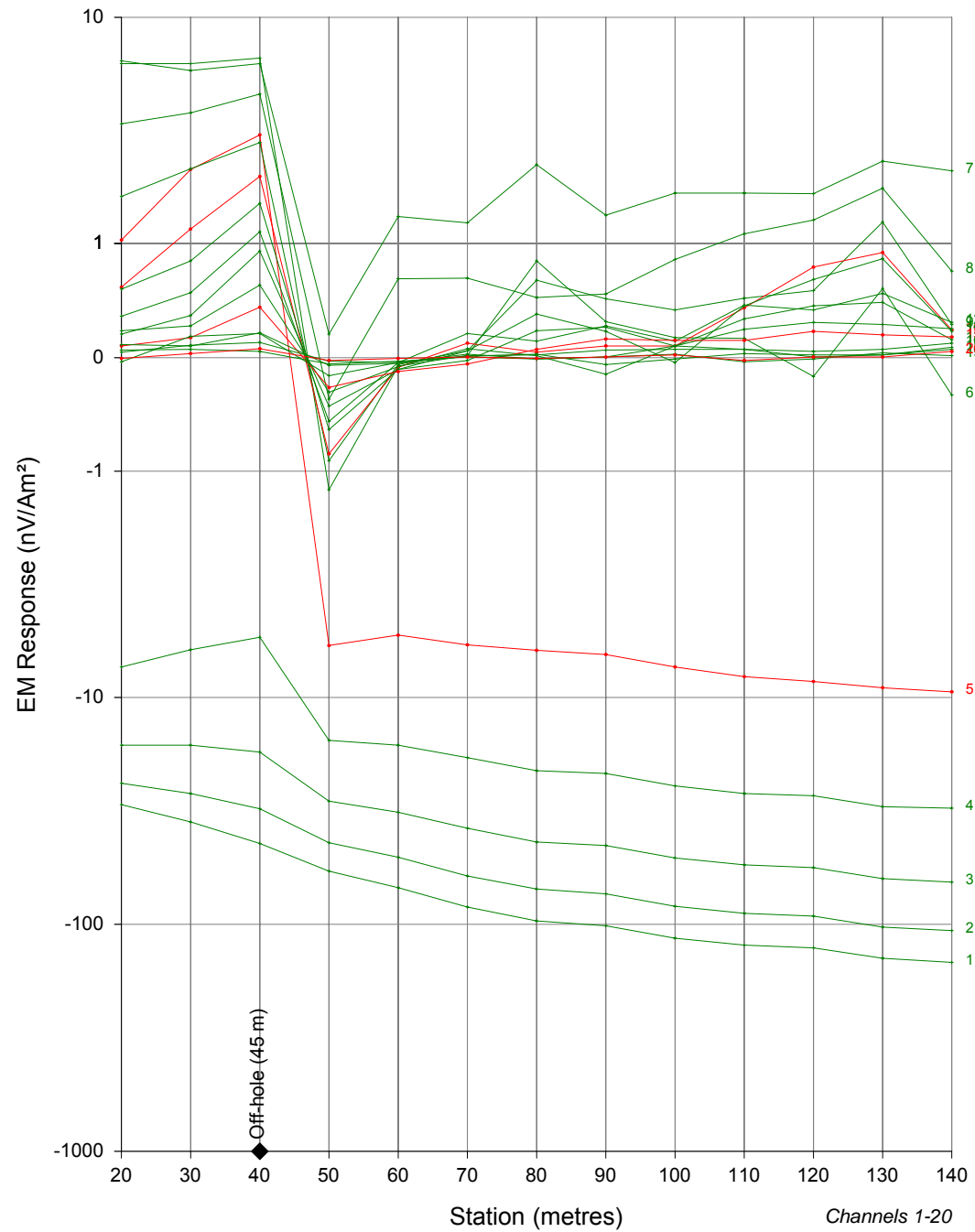
By : M. Brakni

Date : May 2012

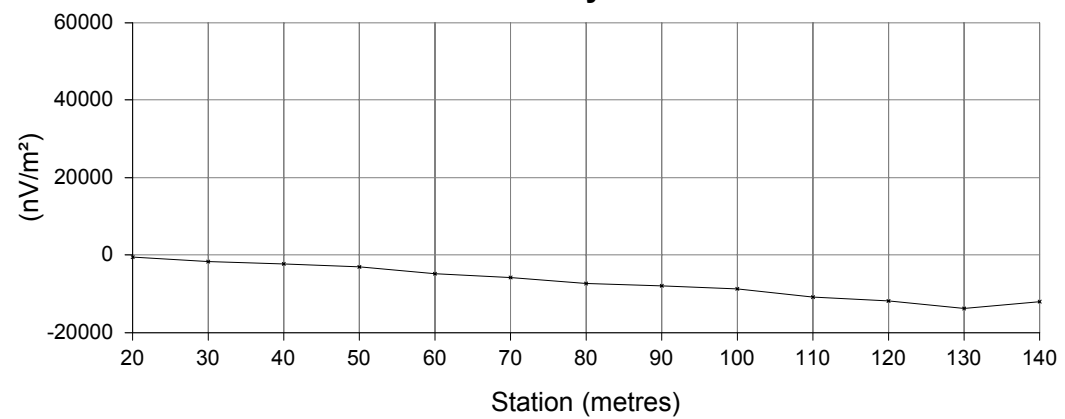
Verif. : M. Dubois

Scale 1:1000

### Y Component



### Primary Field



#### WINDOW TIMES (ms): Centre From the start of the Ramp

1	: 0.6581	11	: 1.369
2	: 0.6769	12	: 1.584
3	: 0.7013	13	: 1.857
4	: 0.7319	14	: 2.206
5	: 0.7706	15	: 2.651
6	: 0.8206	16	: 3.218
7	: 0.8844	17	: 3.943
8	: 0.9656	18	: 4.867
9	: 1.069	19	: 6.045
10	: 1.201	20	: 7.548

#### SURVEY PARAMETERS

Configuration : InfiniTEM®  
Station Spacing : 10 m

#### RECEIVER

Geonics : PROTEM 67D  
Frequency : 30 Hz  
Component : Y  
Rx Coil : BH43-3  
Rx Area : 100 m²

#### TRANSMITTER

TerraScope : PRO5U  
Loop : EB-12-01  
Tx Turn : 1  
Tx Current : 20 A  
Off Time : 8.333 ms  
Turn Off : ~570 µs



Abitibi Geophysics Inc.

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Y Component  
Hole EB12-01  
12N032B

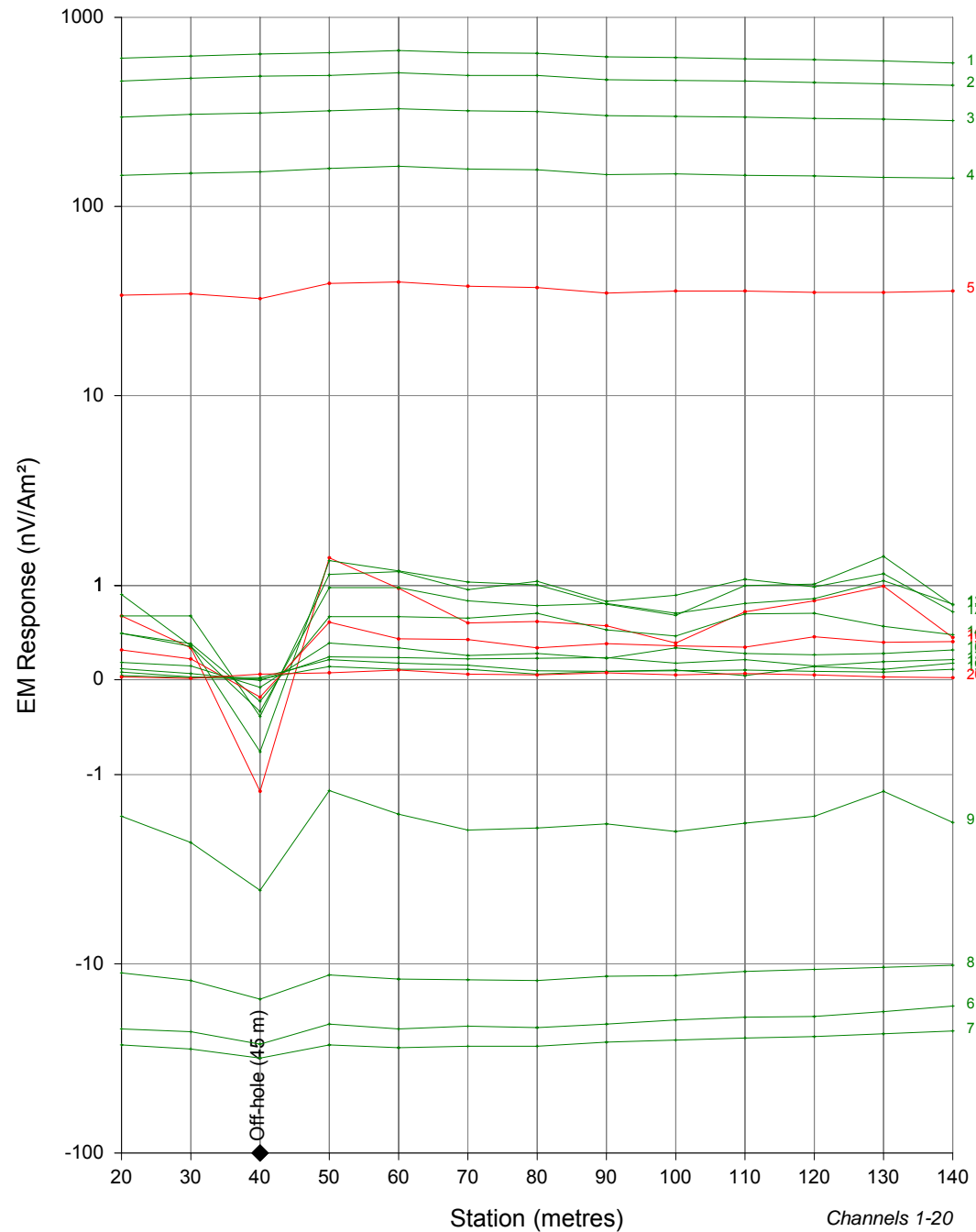
By : M. Brakni

Date : May 2012

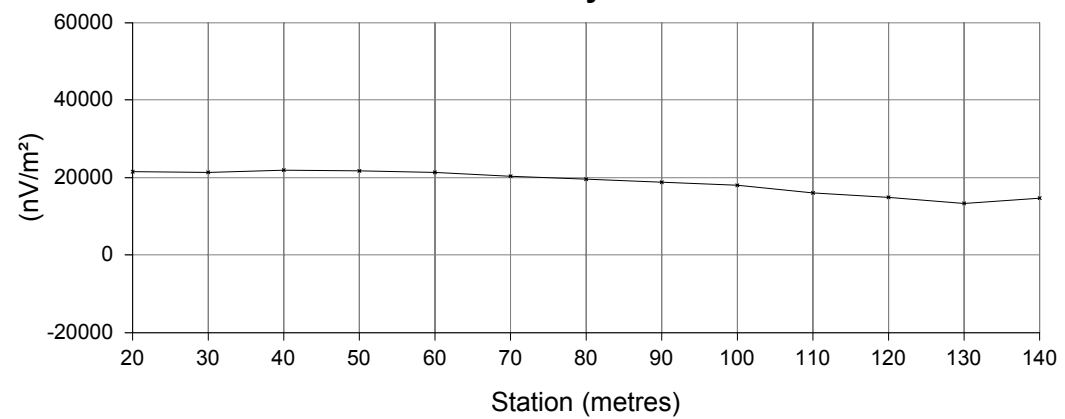
Verif. : M. Dubois

Scale 1:1000

### X Component



### Primary Field



#### WINDOW TIMES (ms): Centre From the start of the Ramp

1 : 0.6581	11 : 1.369
2 : 0.6769	12 : 1.584
3 : 0.7013	13 : 1.857
4 : 0.7319	14 : 2.206
5 : 0.7706	15 : 2.651
6 : 0.8206	16 : 3.218
7 : 0.8844	17 : 3.943
8 : 0.9656	18 : 4.867
9 : 1.069	19 : 6.045
10 : 1.201	20 : 7.548

#### SURVEY PARAMETERS

Configuration : InfiniTEM®  
Station Spacing : 10 m

#### RECEIVER

Geonics : PROTEM 67D  
Frequency : 30 Hz  
Component : X  
Rx Coil : BH43-3  
Rx Area : 100 m²

#### TRANSMITTER

TerraScope : PRO5U  
Loop : EB-12-01  
Tx Turn : 1  
Tx Current : 20 A  
Off Time : 8.333 ms  
Turn Off : ~570 µs



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Borehole InfiniTEM® Survey  
X Component  
Hole EB12-01  
12N032B

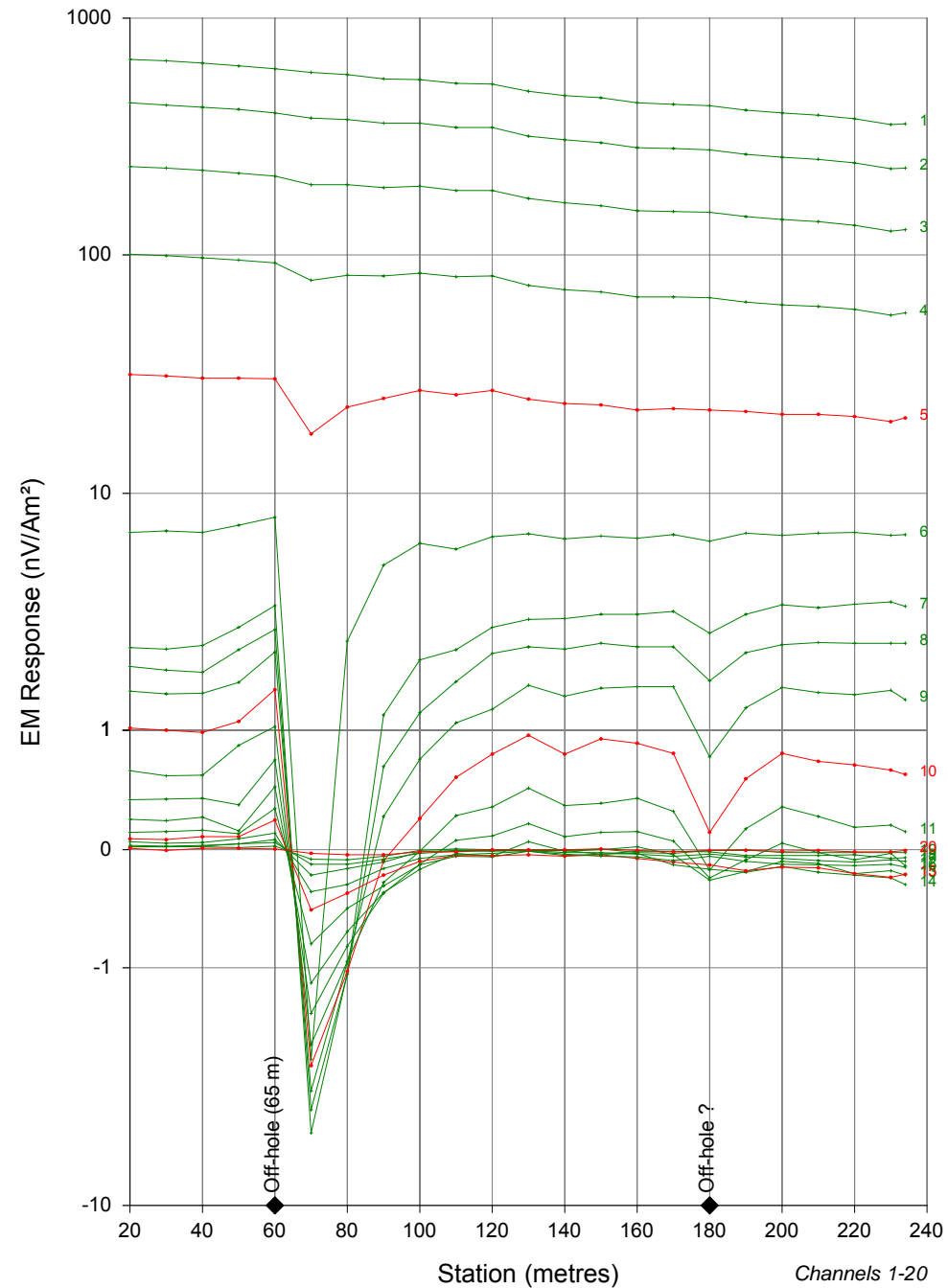
By : M. Brakni

Date : May 2012

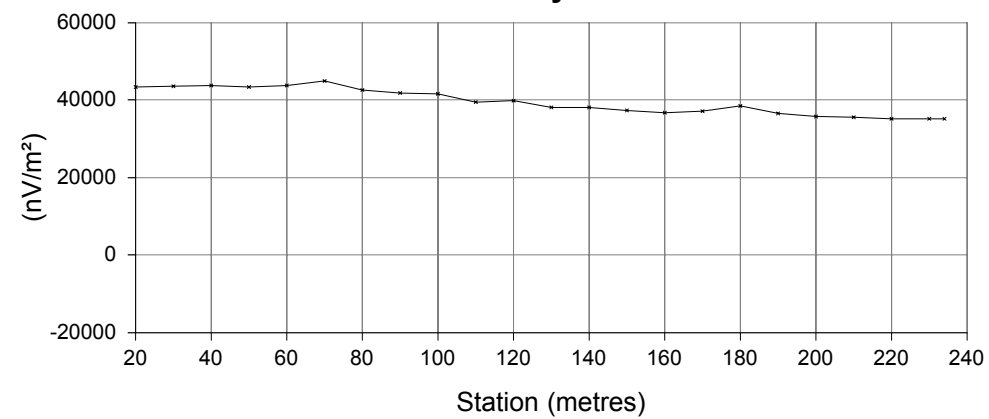
Verif. : M. Dubois

Scale 1:1000

### Z Component



### Primary Field



#### WINDOW TIMES (ms): Centre From the start of the Ramp

1	: 0.6581	11	: 1.369
2	: 0.6769	12	: 1.584
3	: 0.7013	13	: 1.857
4	: 0.7319	14	: 2.206
5	: 0.7706	15	: 2.651
6	: 0.8206	16	: 3.218
7	: 0.8844	17	: 3.943
8	: 0.9656	18	: 4.867
9	: 1.069	19	: 6.045
10	: 1.201	20	: 7.548

#### SURVEY PARAMETERS

Configuration : InfiniTEM®  
Station Spacings : 5 m & 10 m

#### RECEIVER

Geonics : PROTEM 67D  
Frequency : 30 Hz  
Component : Z  
Rx Coil : BH43-3  
Rx Area : 100 m²

#### TRANSMITTER

TerraScope : PRO5U  
Loop : EB-12-01  
Tx Turn : 1  
Tx Current : 20 A  
Off Time : 8.333 ms  
Turn Off : ~570 µs



Abitibi Geophysics Inc.

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East Bull Lake Project  
Borehole InfiniTEM® Survey  
Z Component  
Hole EB12-02  
12N032B

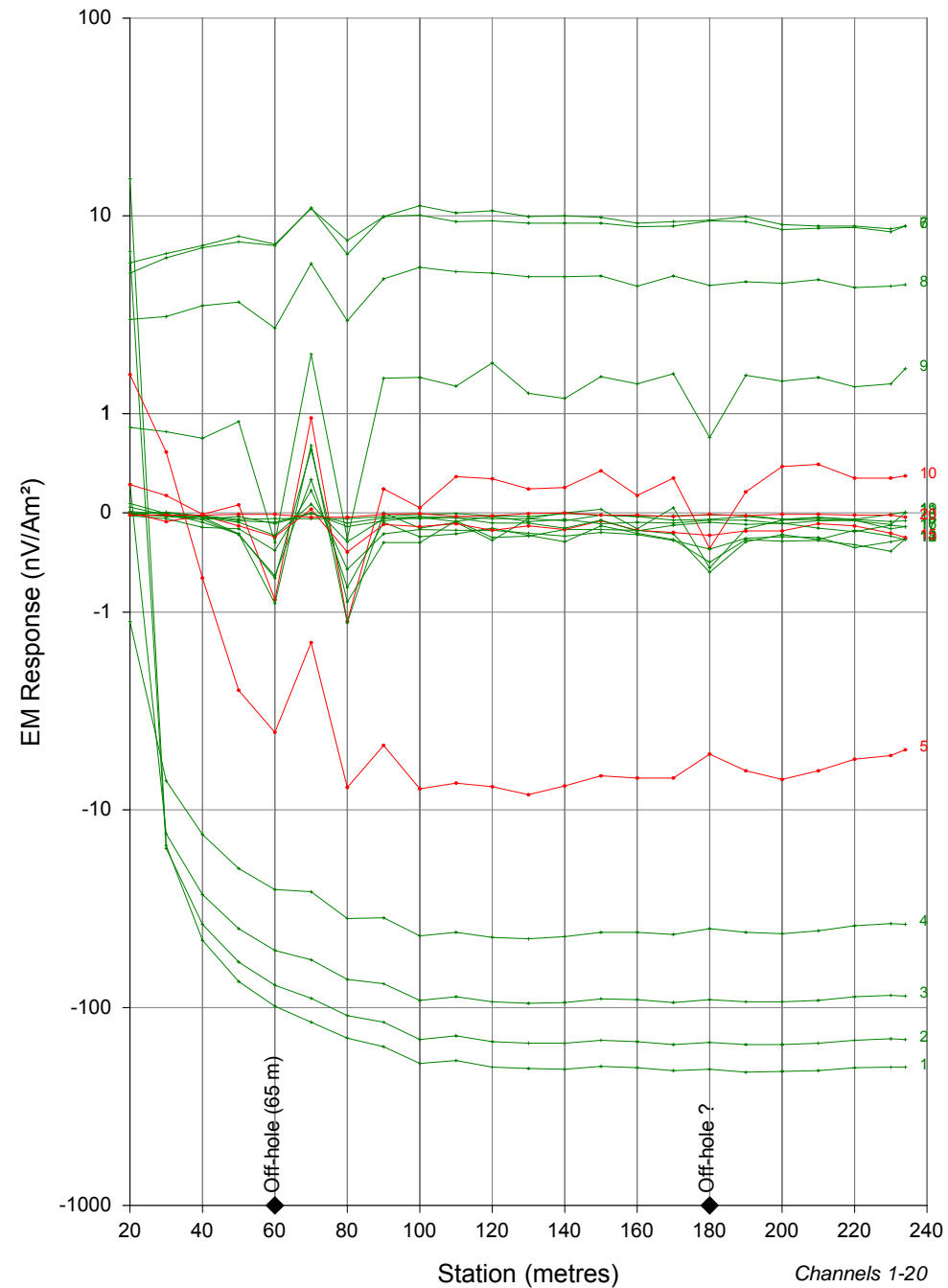
By : M. Brakni

Date : May 2012

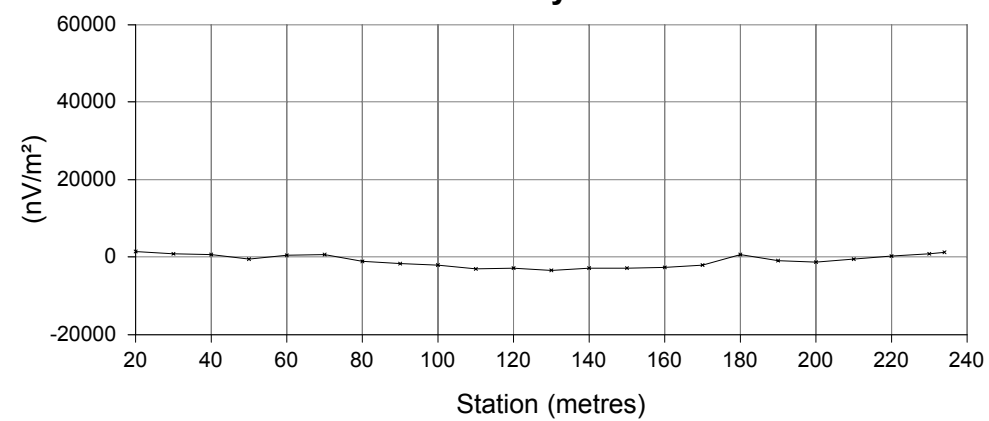
Verif. : M. Dubois

Scale 1:2000

### Y Component



### Primary Field



#### WINDOW TIMES (ms): Centre From the start of the Ramp

1	: 0.6581	11	: 1.369
2	: 0.6769	12	: 1.584
3	: 0.7013	13	: 1.857
4	: 0.7319	14	: 2.206
5	: 0.7706	15	: 2.651
6	: 0.8206	16	: 3.218
7	: 0.8844	17	: 3.943
8	: 0.9656	18	: 4.867
9	: 1.069	19	: 6.045
10	: 1.201	20	: 7.548

#### SURVEY PARAMETERS

Configuration : InfiniTEM®  
Station Spacings : 5 m & 10 m

#### RECEIVER

Geonics : PROTEM 67D  
Frequency : 30 Hz  
Component : Y  
Rx Coil : BH43-3  
Rx Area : 100 m<sup>2</sup>

#### TRANSMITTER

TerraScope : PRO5U  
Loop : EB-12-01  
Tx Turn : 1  
Tx Current : 20 A  
Off Time : 8.333 ms  
Turn Off : ~570 μs



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Mustang Minerals Corp.  
East Bull Lake Project  
Borehole InfiniTEM® Survey  
Y Component  
Hole EB12-02  
12N032B

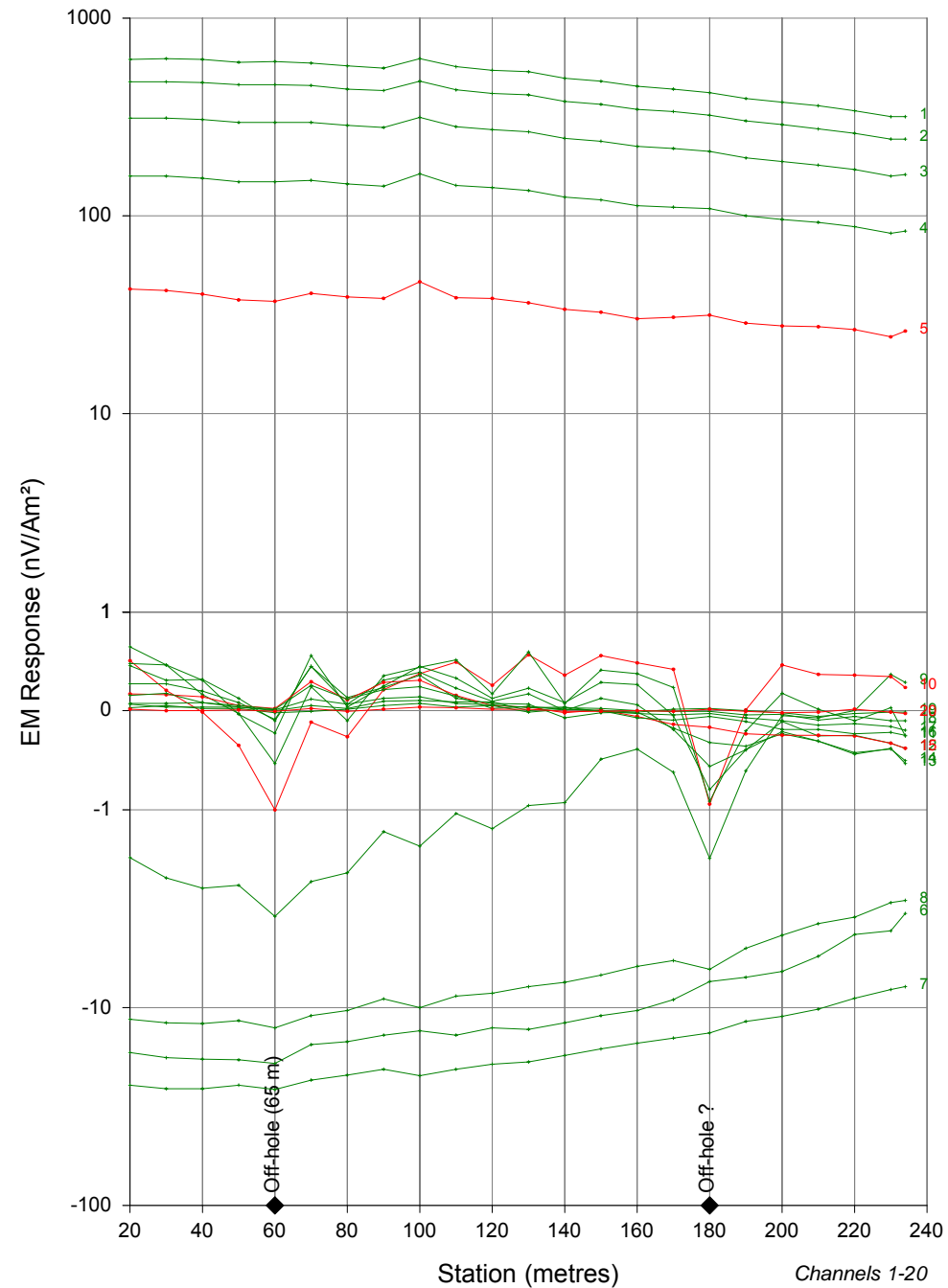
By : M. Brakni

Date : May 2012

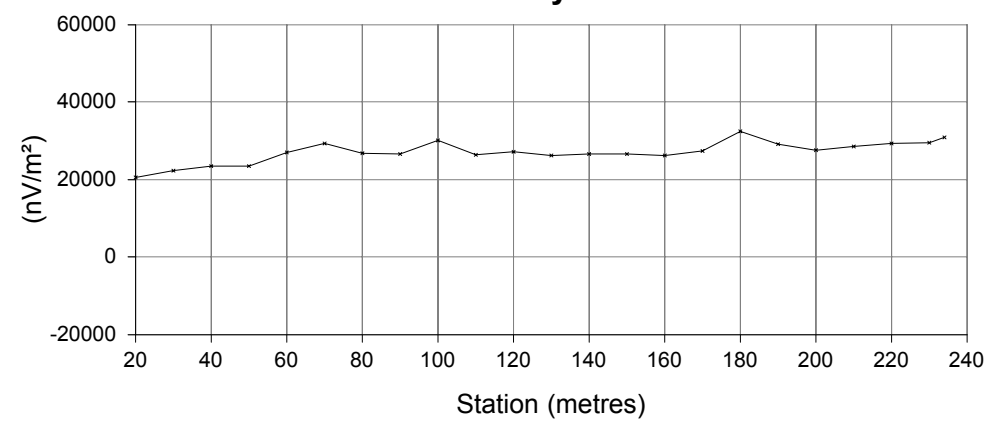
Verif. : M. Dubois

Scale 1:2000

### X Component



### Primary Field



#### WINDOW TIMES (ms): Centre From the start of the Ramp

1	: 0.6581	11	: 1.369
2	: 0.6769	12	: 1.584
3	: 0.7013	13	: 1.857
4	: 0.7319	14	: 2.206
5	: 0.7706	15	: 2.651
6	: 0.8206	16	: 3.218
7	: 0.8844	17	: 3.943
8	: 0.9656	18	: 4.867
9	: 1.069	19	: 6.045
10	: 1.201	20	: 7.548

#### SURVEY PARAMETERS

Configuration : InfiniTEM®  
Station Spacings : 5 m & 10 m

#### RECEIVER

Geonics : PROTEM 67D  
Frequency : 30 Hz  
Component : X  
Rx Coil : BH43-3  
Rx Area : 100 m<sup>2</sup>

#### TRANSMITTER

TerraScope : PRO5U  
Loop : EB-12-01  
Tx Turn : 1  
Tx Current : 20 A  
Off Time : 8.333 ms  
Turn Off : ~570 μs



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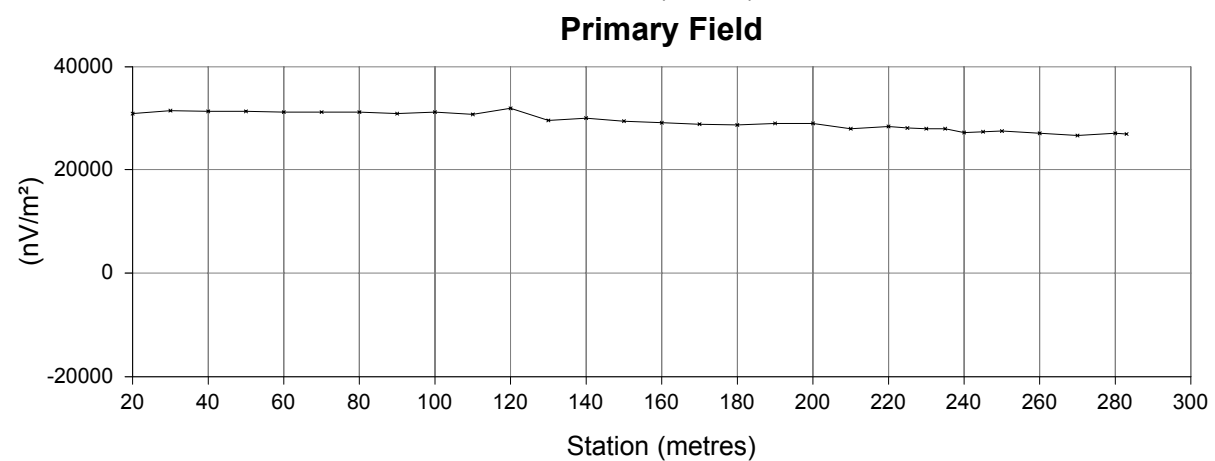
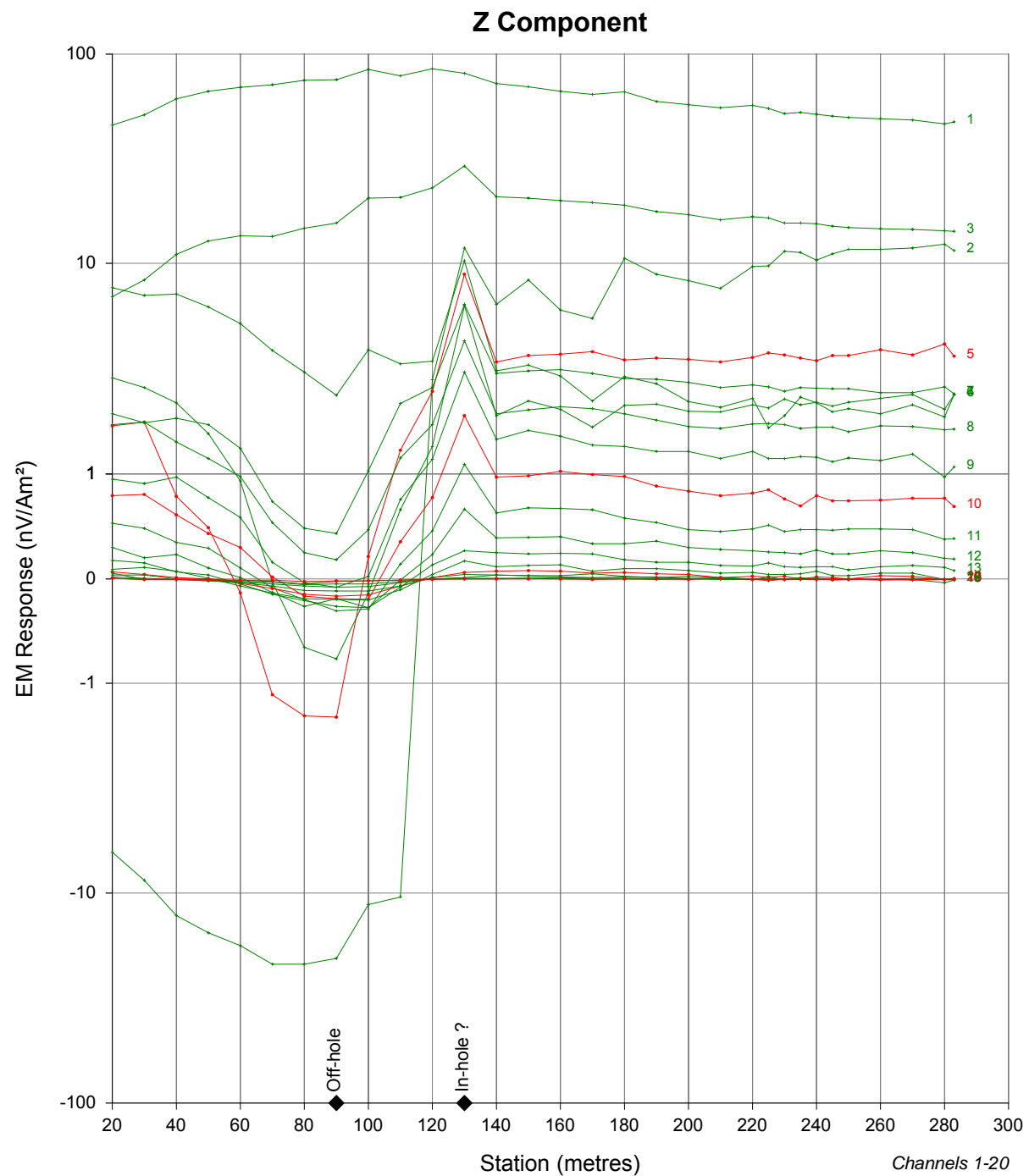
Mustang Minerals Corp.  
East Bull Lake Project  
Borehole InfiniTEM® Survey  
X Component  
Hole EB12-02  
12N032B

By : M. Brakni

Date : May 2012

Verif. : M. Dubois

Scale 1:2000



**WINDOW TIMES (ms): Centre  
From the start of the Ramp**

1 : 0.6481	11 : 1.359
2 : 0.6669	12 : 1.574
3 : 0.6913	13 : 1.847
4 : 0.7219	14 : 2.196
5 : 0.7606	15 : 2.641
6 : 0.8106	16 : 3.208
7 : 0.8744	17 : 3.933
8 : 0.9556	18 : 4.857
9 : 1.059	19 : 6.035
10 : 1.191	20 : 7.538

**SURVEY PARAMETERS**

Configuration : InfiniTEM®  
Station Spacings : 5 m & 10 m

**RECEIVER**

Geonics : PROTEM 67D  
Frequency : 30 Hz  
Component : Z  
Rx Coil : BH43-3  
Rx Area : 100 m²

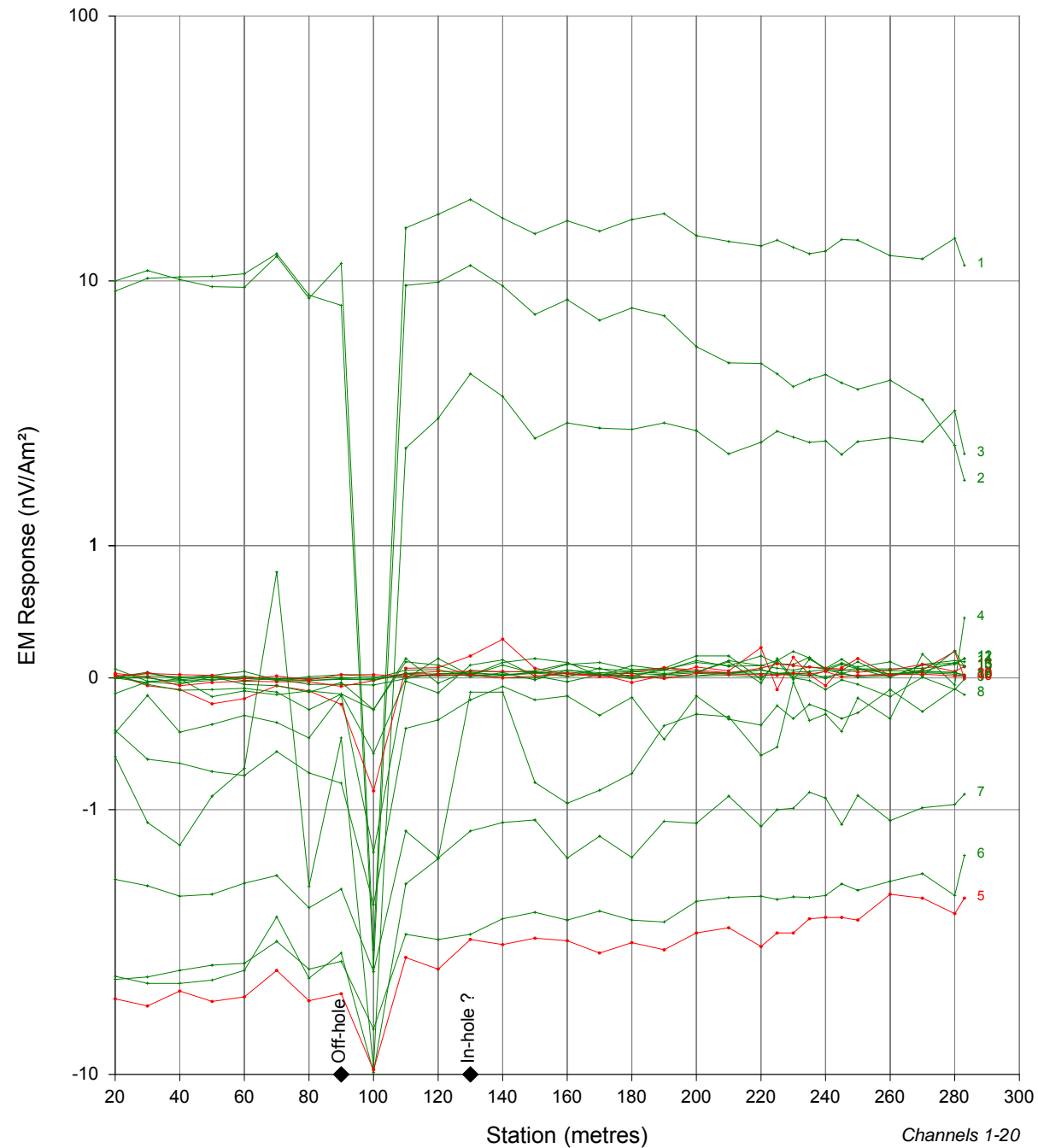
**TRANSMITTER**

TerraScope : PRO5U  
Loop : EB-12-01  
Tx Turn : 1  
Tx Current : 20 A  
Off Time : 8.333 ms  
Turn Off : ~570 µs

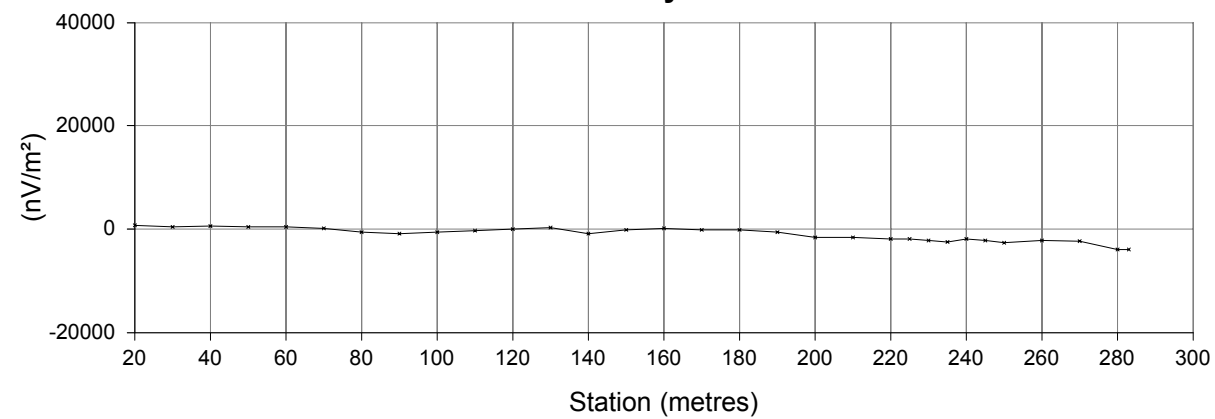


Abitibi Geophysics Inc.	
Mustang Minerals Corp. East Bull Lake Project Borehole InfiniTEM® Survey Z Component Hole EB12-03 12N032B	
By : M. Brakni	Date : May 2012
Verif. : M. Dubois	Scale 1:2000

### Y Component



### Primary Field



#### WINDOW TIMES (ms): Centre From the start of the Ramp

1 : 0.6481	11 : 1.359
2 : 0.6669	12 : 1.574
3 : 0.6913	13 : 1.847
4 : 0.7219	14 : 2.196
5 : 0.7606	15 : 2.641
6 : 0.8106	16 : 3.208
7 : 0.8744	17 : 3.933
8 : 0.9556	18 : 4.857
9 : 1.059	19 : 6.035
10 : 1.191	20 : 7.538

#### SURVEY PARAMETERS

Configuration : InfiniTEM®  
Station Spacings : 5 m & 10 m

#### RECEIVER

Geonics : PROTEM 67D  
Frequency : 30 Hz  
Component : Y  
Rx Coil : BH43-3  
Rx Area : 100 m<sup>2</sup>

#### TRANSMITTER

TerraScope : PRO5U  
Loop : EB-12-01  
Tx Turn : 1  
Tx Current : 20 A  
Off Time : 8.333 ms  
Turn Off : ~570 µs

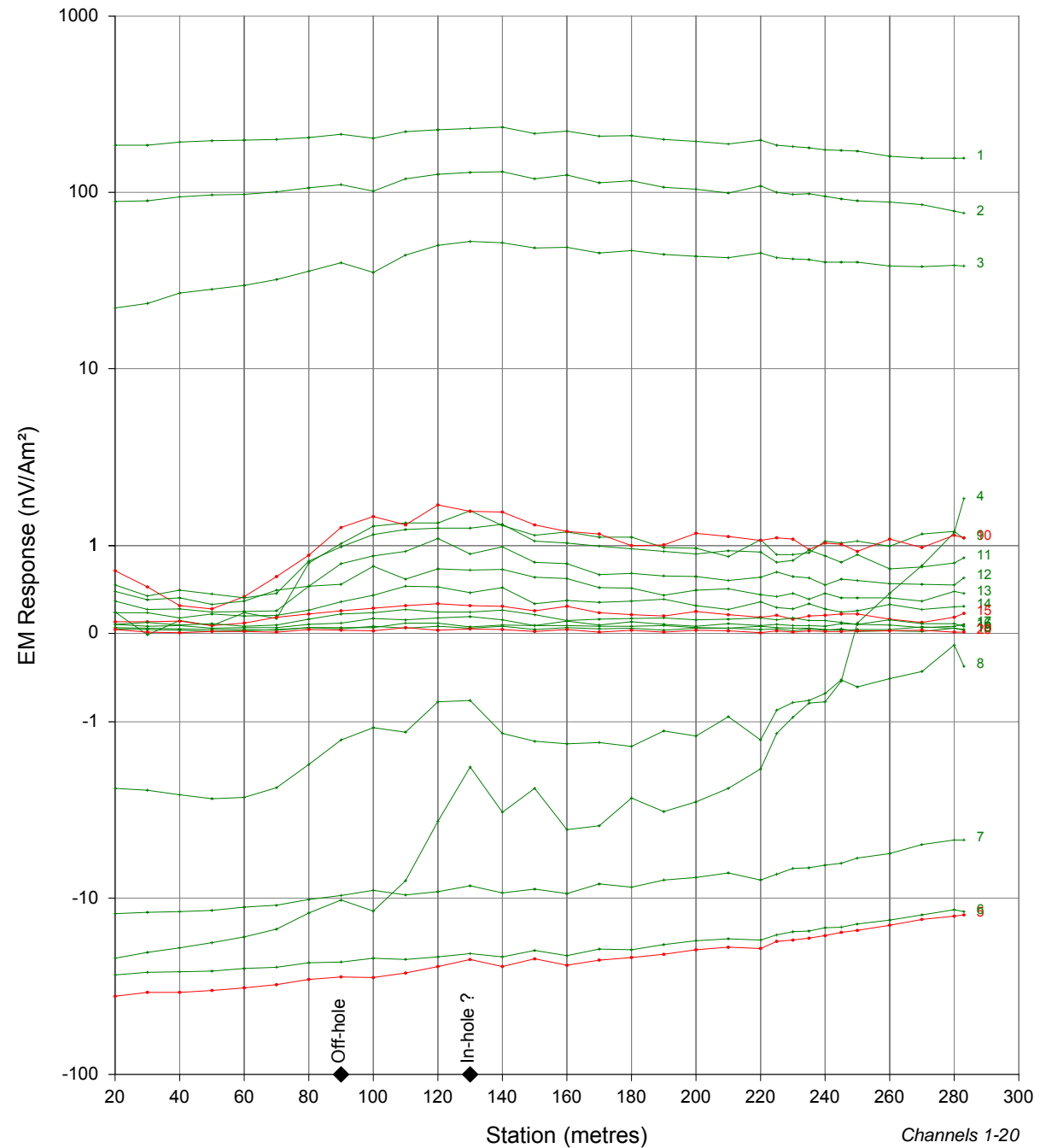


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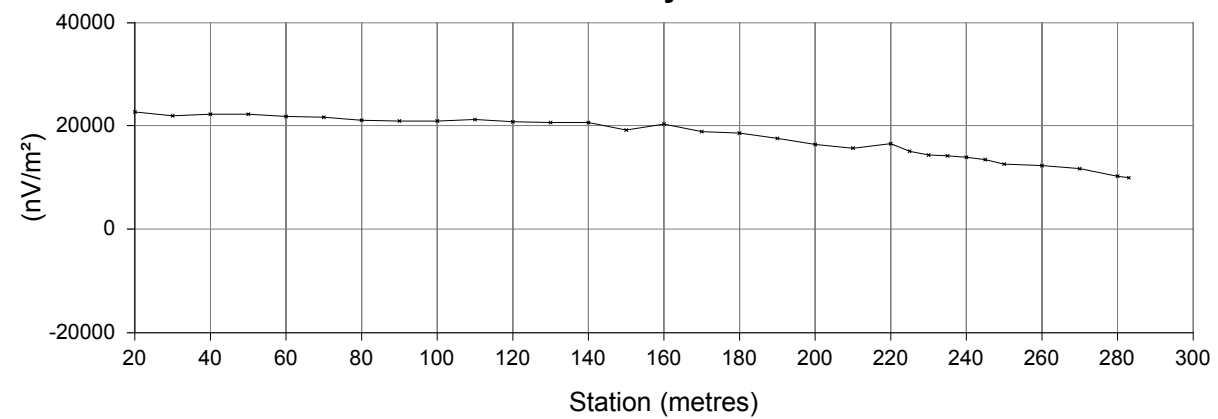
Mustang Minerals Corp.  
East Bull Lake Project  
Borehole InfiniTEM® Survey  
Y Component  
Hole EB12-03  
12N032B

By : M. Brakni	Date : May 2012
Verif. : M. Dubois	Scale 1:2000

### X Component



### Primary Field



#### WINDOW TIMES (ms): Centre From the start of the Ramp

1 : 0.6481	11 : 1.359
2 : 0.6669	12 : 1.574
3 : 0.6913	13 : 1.847
4 : 0.7219	14 : 2.196
5 : 0.7606	15 : 2.641
6 : 0.8106	16 : 3.208
7 : 0.8744	17 : 3.933
8 : 0.9556	18 : 4.857
9 : 1.059	19 : 6.035
10 : 1.191	20 : 7.538

#### SURVEY PARAMETERS

Configuration : InfiniTEM®  
Station Spacings : 5 m & 10 m

#### RECEIVER

Geonics : PROTEM 67D  
Frequency : 30 Hz  
Component : X  
Rx Coil : BH43-3  
Rx Area : 100 m²

#### TRANSMITTER

TerraScope : PRO5U  
Loop : EB-12-01  
Tx Turn : 1  
Tx Current : 20 A  
Off Time : 8.333 ms  
Turn Off : ~570 µs



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X Component  
Hole EB12-03  
12N032B

By : M. Brakni

Date : May 2012

Verif. : M. Dubois

Scale 1:2000