

# MAR 20040027: COUTT'S CREEK

Received date: Dec 01, 2004

Public release date: Feb 02, 2006

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**756736 ALBERTA LTD**

**2002 – 2004 EXPLORATION OF THE  
COUTTS CREEK AREA PROPERTY  
NORTH-CENTRAL, ALBERTA**

**Metallic and Industrial Minerals Permits  
9398070342, 9398070343, & 9398070344**

**Geographic Co-ordinates  
54°45'00" to 55°18'00" N  
114°07'00" to 114°45'00" W**

**NTS Sheets 83 J/15 O/1 and O/2**

**2004.10.25**

**Prepared by**

**A. Hangartner, Prospector**

**756736 Alberta Ltd.  
4011 – 37 Avenue  
Leduc, Alberta  
T9E 6E1**

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## **1. SUMMARY**

**Alberta Metallic and Industrial Minerals Permit Nos 9398070342 & 9398070343 herein referred to as the Coutts Creek Area Property, located southeast of Lesser Slave Lake, Alberta in the central part of the Swan Hills, was explored for primary diamond deposits by 756736 Alberta Ltd. A number of anomalous areas depicted from several high resolution aeromagnetic (HRAM) surveys acquired from Spectra Exploration Geoscience Corporation and Terraquest Ltd. along with areas recommended by Halferdahl & Associates Ltd. were investigated.**

**Ground magnetic profiles were conducted to more precisely localize the source or possible sources of some of the aeromagnetic anomalies. Several topographic circular/oval-shaped physiographic features were also investigated. Concentrated streambed mineral samples were examined from several streams near possible source areas but not collected and sent for analysis at this time.**

## **2. INTRODUCTION**

**During 1998 through 2002, 756736 Alberta Ltd. conducted exploration for primary diamond deposits within the South Slave Block Property. Exploration activities included the use of high-resolution aeromagnetic data (HRAM) from Spectra Exploration Geoscience Corp. and Terraquest Ltd.; ground magnetometer surveys; streambed mineral sample collection and concentration; and an extensive review of aerial photographs, digital elevation data, topographic maps and other publicly available information, by 756736 Alberta Ltd..**

**The assessment report herein describes the exploration conducted at the Coutts Creek Area consisting of MAIM permits 9398070342, & 9398070343 during July 2002 through to July 2004. This assessment report has been prepared by 756736 Alberta Ltd., who is the owner of the permits.**

### **3. LOCATION AND ACCESS**

#### **Property Location**

The property is located in north-central Alberta, about 150 km northwest of the City of Edmonton. It borders on the southeast corner of the town of Slave Lake and extends from 54° 45'00" to 55°18'00" north latitude and 114°07'00" to 114°45'00" west longitude, within NTS map sheets 83 J/15, O/1, and O/2 (Fig. 3.1 and Fig. 3.2).

#### **Property Access**

The properties are accessible from several graveled oilfield roads leading south from Highway 2, east of the town of Slave Lake and from graveled oilfield roads about 50 km northeast of the town of Ft. Assiniboine. There are also several logging roads that allow access during the winter months. Seismic lines, pipelines and old logging roads provide all-terrain vehicle or snow-machine access to most remote areas of the property (Fig. 4.1 – Fig. 4.2).

Infrastructures near the area include accommodation, food and vehicles at Slave Lake or Ft. Assiniboine.

#### **Property Geology**

The area contains major amounts of oilfield culture. Economic activities in the area are dominated by logging and timber operations and oil and gas exploration. The property is in the north and eastern part of the Swan Hills within the hydrographic basins drained by the Parker Creek, Coutts Creek, Florence Creek, and Saulteaux River .

### **4. EXPLORATION**

#### **Work Description**

Between July 31, 2002 and July 31, 2004, 756736 Alberta Ltd. explored access, de-cultured and carried out preliminary ground follow-ups of anomalies depicted on 1997 Spectra Exploration Geoscience Corp. and Terraquest Ltd. HRAM survey maps. Ground magnetic survey checks were also conducted on several topographic circular/oval-shaped physiographic features using selection criteria suggested by Halferdahl & Associates Ltd.

## Site Selection

The properties contained considerable amounts of cultural interference complicating selection. HRAM data processing and editing may have eliminated geographically significant anomalies not shown on the aeromagnetic maps but that perhaps could be confirmed by ground measurements. Raw data processing using Geosoft Software showed that there were several small anomalies that do not have verified cultural sources.

Selected sites were chosen to conduct magnetic ground surveys mainly to accommodate down-sizing considerations. Profiles were conducted using hip chain, compass, and GPS. The length of the profile and the line spacing chosen depended on the terrain and the data available. Magnetic profile surveys were performed at 50 sites throughout the area. Cut lines and other cleared areas which often contained buried man made culture were avoided where ever possible. (See Table 4.1 titled Exploration, Grid Flagging, and Magnetic Ground Profile Locations, July 2000 – 2002 for the locations of the profiles conducted in their respective areas ).

Data collected for each profile was processed at a later date. (For data collection methods, processing methods and equipment used see Appendix 6 – Method of Ground Magnetic Surveying Employed).

...

<b>Table 4.1 Exploration, Flagging, and Magnetic Ground Profile Locations</b>						
<b>Coutt's Creek Area July 2002 - 2004</b>						
<b>Permit # MAIM 9398070342.</b>						
Profile Ident.	Dist. m	UTM		Work Description	Dates	Shown in Figure
		Easting	Northing			
Tp67r4w5				Exploration and Deculturing	Feb 27 & Mar 1/03	4.3
P5676	523	658450	6076500	Flagging and Magnetic Profile	Mar 02/03	4.5
P5678	776	656450	6078250	Flagging and Magnetic Profile	Mar 03/03	4.6
P5676	1053	656850	6076600	Flagging and Magnetic Profile	Mar 04/03	4.7
<b>Permit # MAIM 9398070343.</b>						
Profile Ident.	Dist. m	UTM		Work Description	Dates	Shown in Figure
		Easting	Northing			
Tp68r4w5				Exploration and Deculturing	Feb 28/03 & Mar 04/03	4.4
P6282	873	662100	6082500	Flagging and Magnetic Profile	Feb 28/03	4.8

## 5. CONCLUSIONS

None of the profile data collected showed anything of significance. This was not surprising considering that the profiles were conducted for the purpose of downsizing the property. Much of the area is riddle with oil field culture and many of the planned profiles were abandoned once sources became evident. The profiles indicating short duration fluctuations likely could be contributed to near surface magnetic rocks in the soil. Readings also varied when crossing creeks but this is probably due to magnetic particle concentration in the streambed.

We plan to investigate all small anomalies depicted on the aeromagnetic maps and all circular physiographic surface features present on the properties.

## 6. PERMIT TABULATION

The areas retained were selected using selection criteria suggested by Halferdahl & Associates Ltd., topographic circular/oval-shaped physiographic features; anomalies depicted on 1997 Spectra Exploration Geoscience Corp. and Terraquest Ltd. HRAM survey maps; ground magnetometer surveys; and an extensive review of aerial photographs, digital elevation data, topographic maps and other publicly available information, by 756736 Alberta Ltd..

Table 6.1 lists the areas of the permits that 756736 Alberta Ltd. wants retained. Figures 6.1 - 6.2 should also depict this same information. If there is a discrepancy between the table and the figures, please use the information depicted on the figures. Cancel all shaded areas of the original permits as depicted in figures 6.1 - 6.2.

Permit #	Legal Land Description	Area (ha)	Figure
9398070342	Tp.67r4w6 (Sec. 1L5-8,L12; 7L10,L15)	112	Fig. 6.1
9398070343	Tp.68r4w6 (Sec. 9L9,L10; 12L7,L10; 18L15; 19L2,L3)	112	Fig. 6.2

### Distances Gridded and Surveyed - Coutt's Creek Areas:

MAIM permit 9398070342 - Total ground magnetic survey line/km = 2.4

MAIM permit 9398070343 - Total ground magnetic survey line/km = 0.9

## **Exploration Expenditures - July 2002 – July 2004**

**MAIM permit 9398070342 exploration expenditures: \$6,559.58**

**MAIM permit 9398070343 exploration expenditures: \$4,027.03**

**Coutt's Creek Exploration expenditures: \$10,586.61**

**For a summary of expenditures in MAIM permit 9398070342 see  
Appendix 1 – Statement of Reasonable Expenditures.**

**Please allocate any excess expenditures to the retained area of active permit  
#9398070342.**

**For a summary of expenditures MAIM permit 9398070343 see  
Appendix 2 – Statement of Reasonable Expenditures.**

**Please allocate any excess expenditures to the retained area of active permit  
#9398070352.**

**MAIM Permit #s 9398070342, & 9398070343 are privately owned by 756736 Alberta  
Ltd., 4011-37 Ave., Leduc, Alberta and exploration expenditures are not financed by  
share holders. This report is being submitted for 756736 Alberta Ltd. by August  
Hangartner, chief prospector and president of 756736 Alberta Ltd.**

## **7. QUALIFICATIONS**

**Qualifications and work experience of the author of this report:**

**Education:**

**Graduate of NAIT, - Electronics Engineering Technology (1970).**

**Work experience:**

**Many years experience as a Technical Systems Analyst working with complex  
computer systems, programming, troubleshooting, interfacing devices, etc.**

**I have no formal training in Geology. Prospecting is just a hobby.**

---

**August Hangartner  
Part time prospector,  
Leduc, Alberta  
Oct 25, 2004.**

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756736 Alberta Ltd.: 2 copies**



## **8. REFERENCES**

**Terraquest Ltd. (1998) High resolution aeromagnetic survey.**

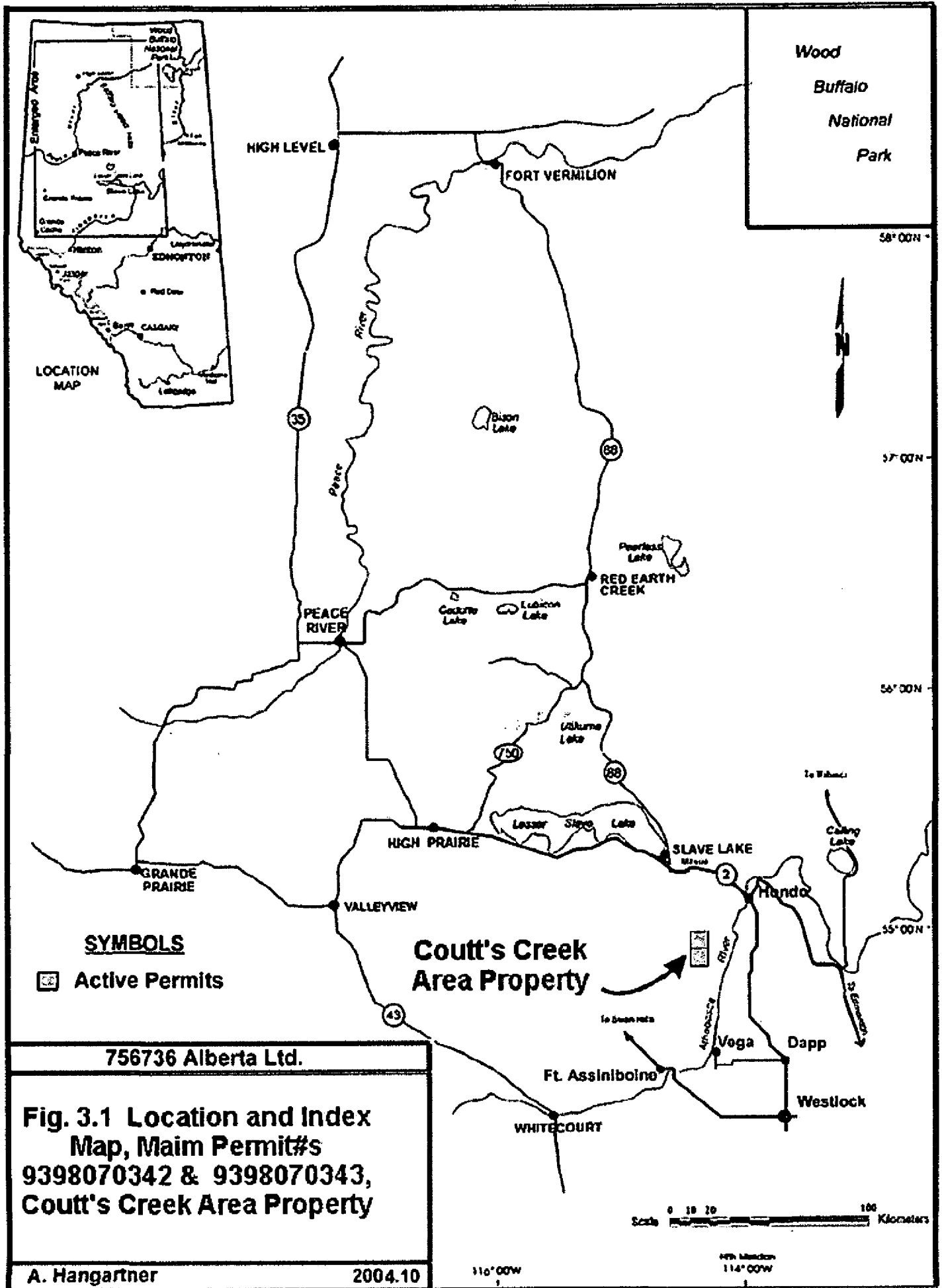
**Lesser Slave Lake project - Blocks B & C; unpublished report dated 1998/04/28 to Halferdahl and Associates Ltd., Edmonton, by Terraquest Ltd., Toronto, 22 pgs., 5 figs., 6 maps.**

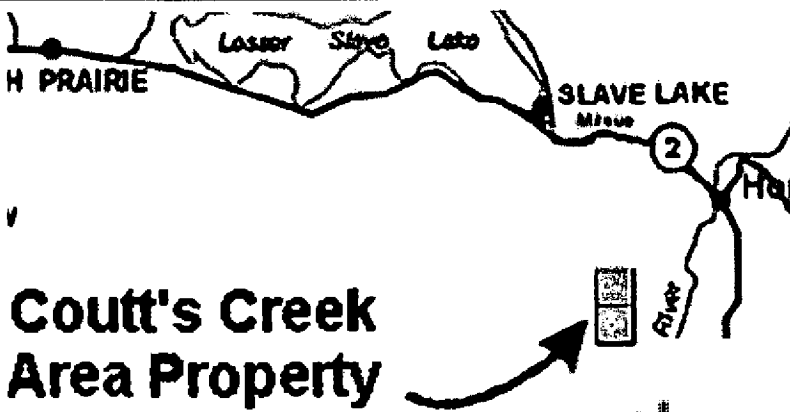
- 1. 5.0 Data Processing - Processing steps and some important concepts that should be highlighted with regard to cultural editing.**
- 2. 6.0 Interpretation -Techniques and comments offered to assist in the interpretation of the horizontal gradient vectors.**
- 3. Contoured Vertical Gradient of RTF and Horizontal Gradient Vectors, Block B, high resolution magnetic survey map.**

**Halferdahl & Associates Ltd. (1998) Assessment report. 1997 and Early 1998**

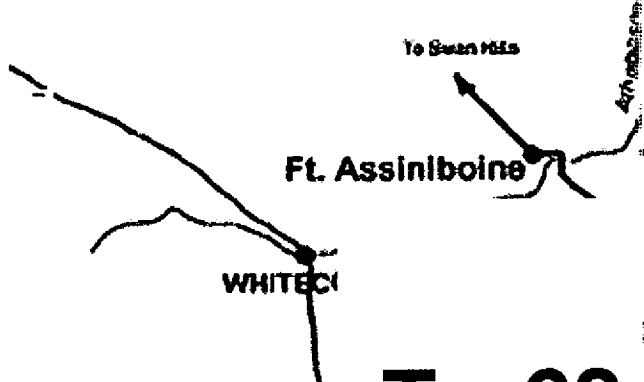
**Exploration of the Lesser Slave Lake Property, North - Central, Alberta dated 1998/05/26, 23 pgs. 11 figs., 6 apps.**

- 1. 10. Conclusions – Anomalies warrant additional exploration.**
- 2. Appendix 2 – Location of Anomalies.**
- 3. Appendix 2 - Selected Physiographic Features.**
- 4. Appendix 2 – Coincident Anomalies and Physiographic Features.**





**Coutt's Creek Area Property**

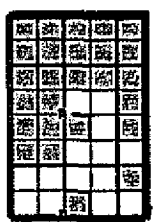


**Tp.68**

**398070343**

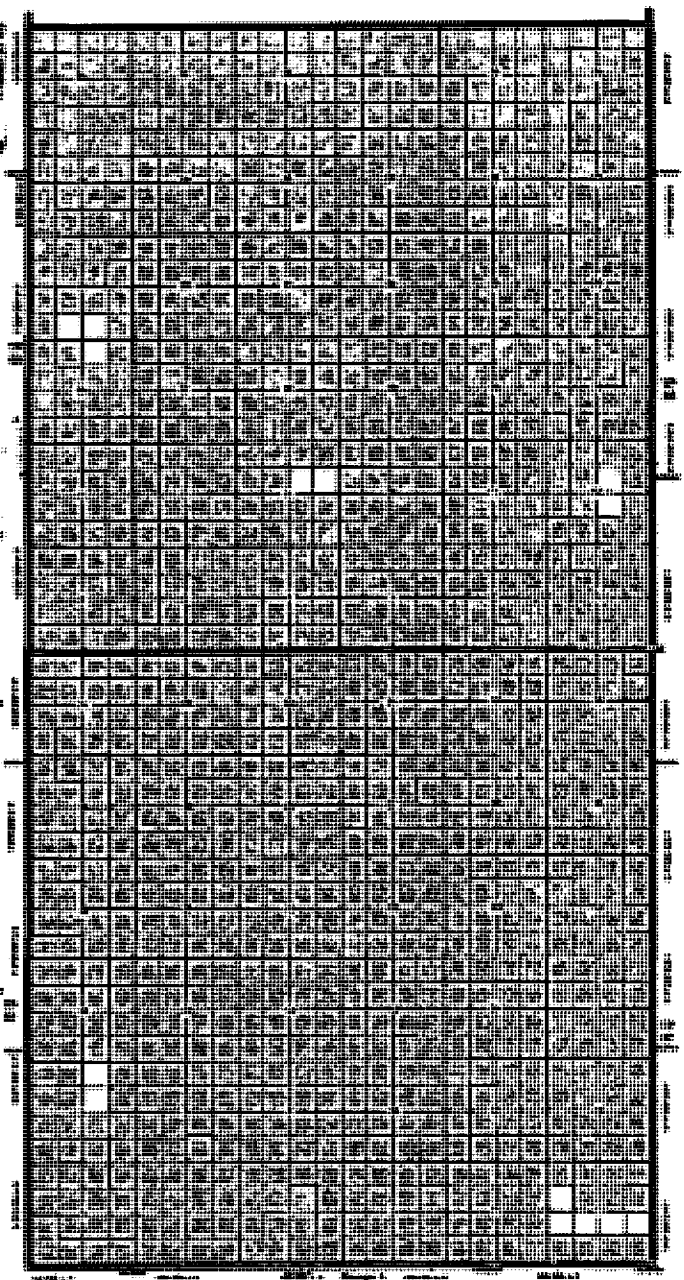
**Symbol**

- Maim Permit Area (within dark border)
- Active Permit LSDs (light color squares)

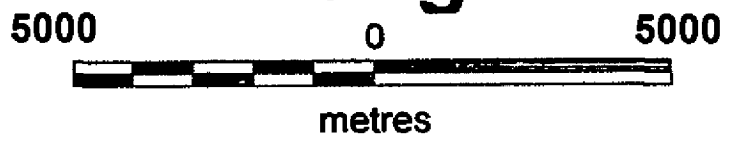


**Tp.67**

**398070342**



**Range 4**



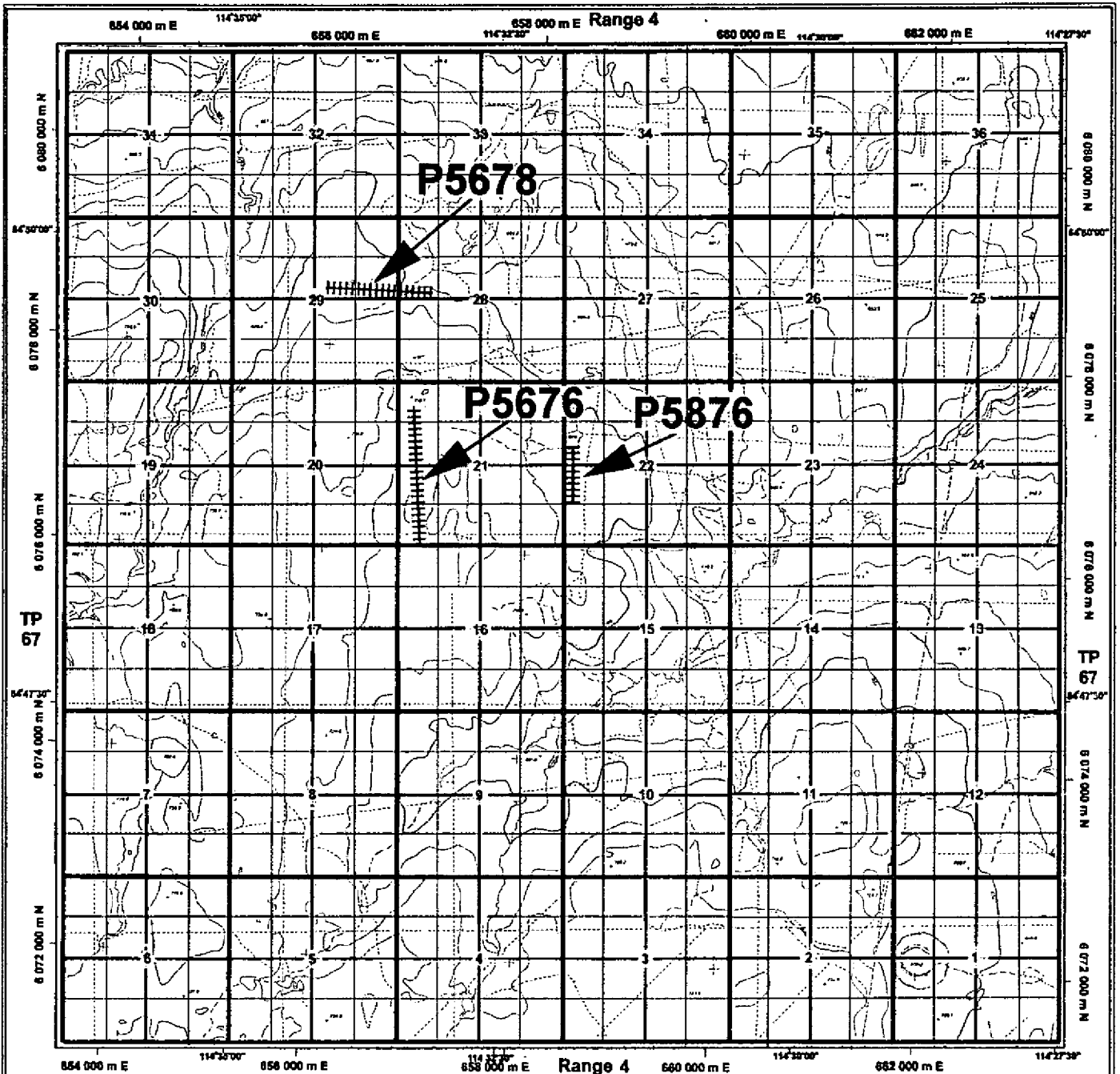
**756736 Alberta Ltd.**

**Fig. 3.2 Property Map**

MAIM Permit #s:  
 9398070342 & 9398070343

Coutt's Creek Area Property

A. Hangartner 2004.10



**Symbols**

 – Location of magnetic profile.

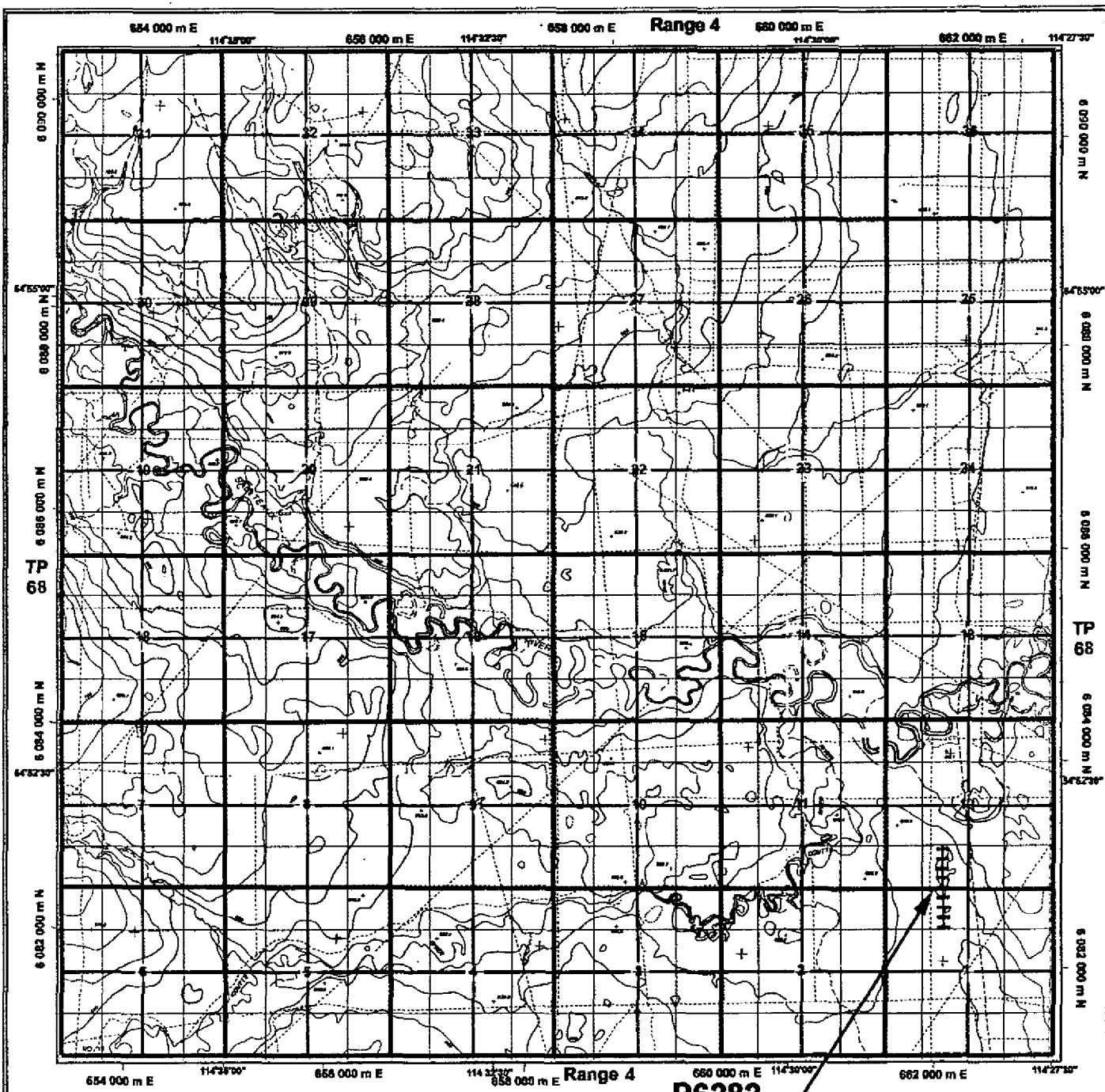
**756736 Alberta Ltd.**

**Fig 4.1 Locations of  
Exploration Work Map**

**MAIM Permit #9398070342**

**A. Hangartner**

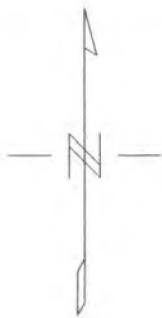
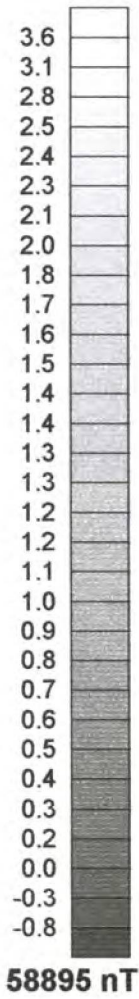
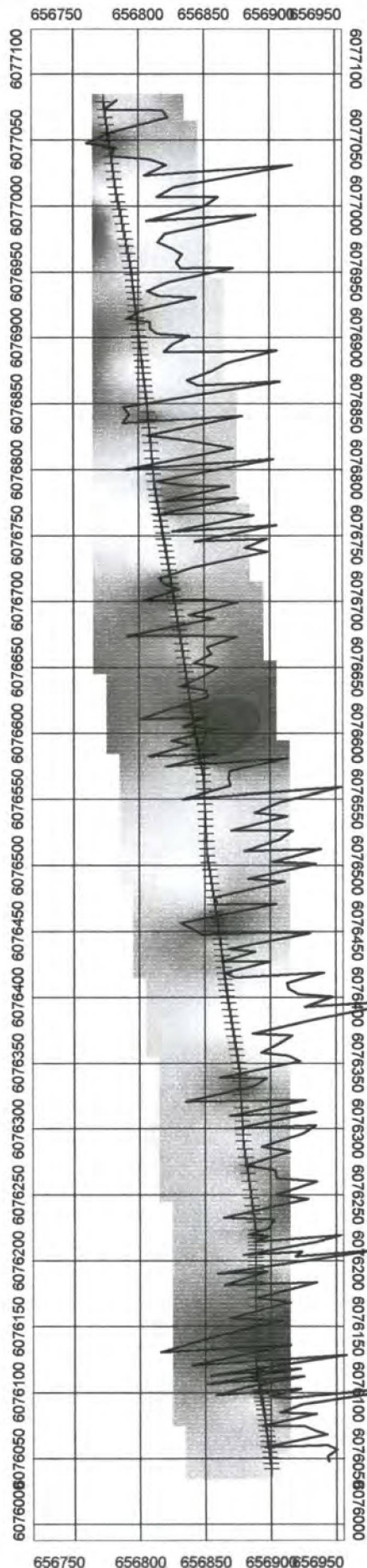
**2004.10**



**Symbols**

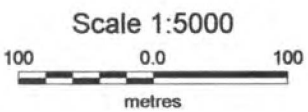
##### Location of magnetic profile.

<b>756736 Alberta Ltd.</b>	
<b>Fig 4.2 Locations of Exploration Work Map</b>	
<b>MAIM Permit #9398070343</b>	
<b>A. Hangartner</b>	<b>2004.10</b>



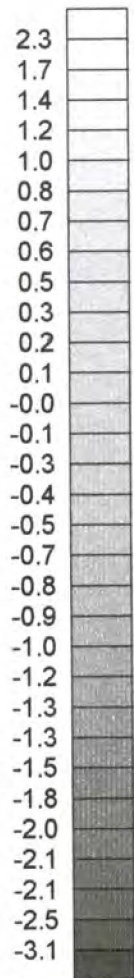
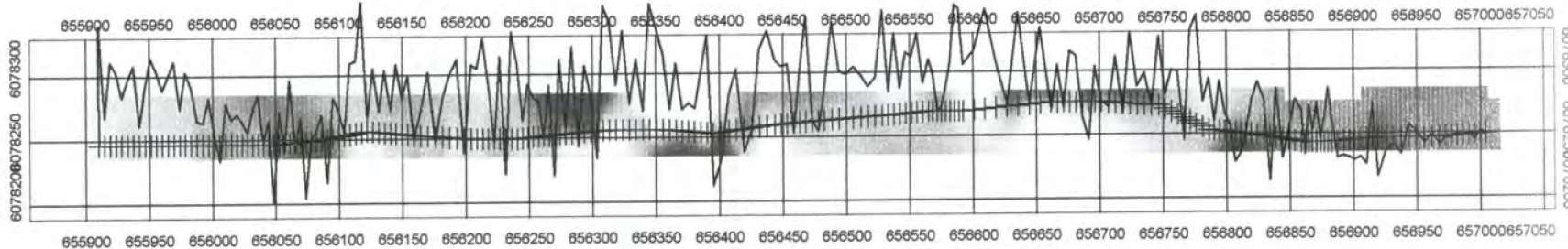
**Legend**

**+** Location of Magnetic Reading.

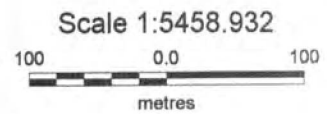
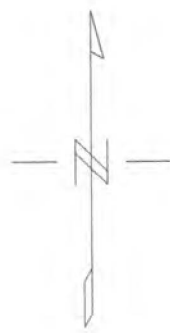


756736 Alberta Ltd.	
Fig. 4.3 Profile P5676 Ground Magnetic Survey MAIM Permit #9398070342	
A. Hangartner	2004.10



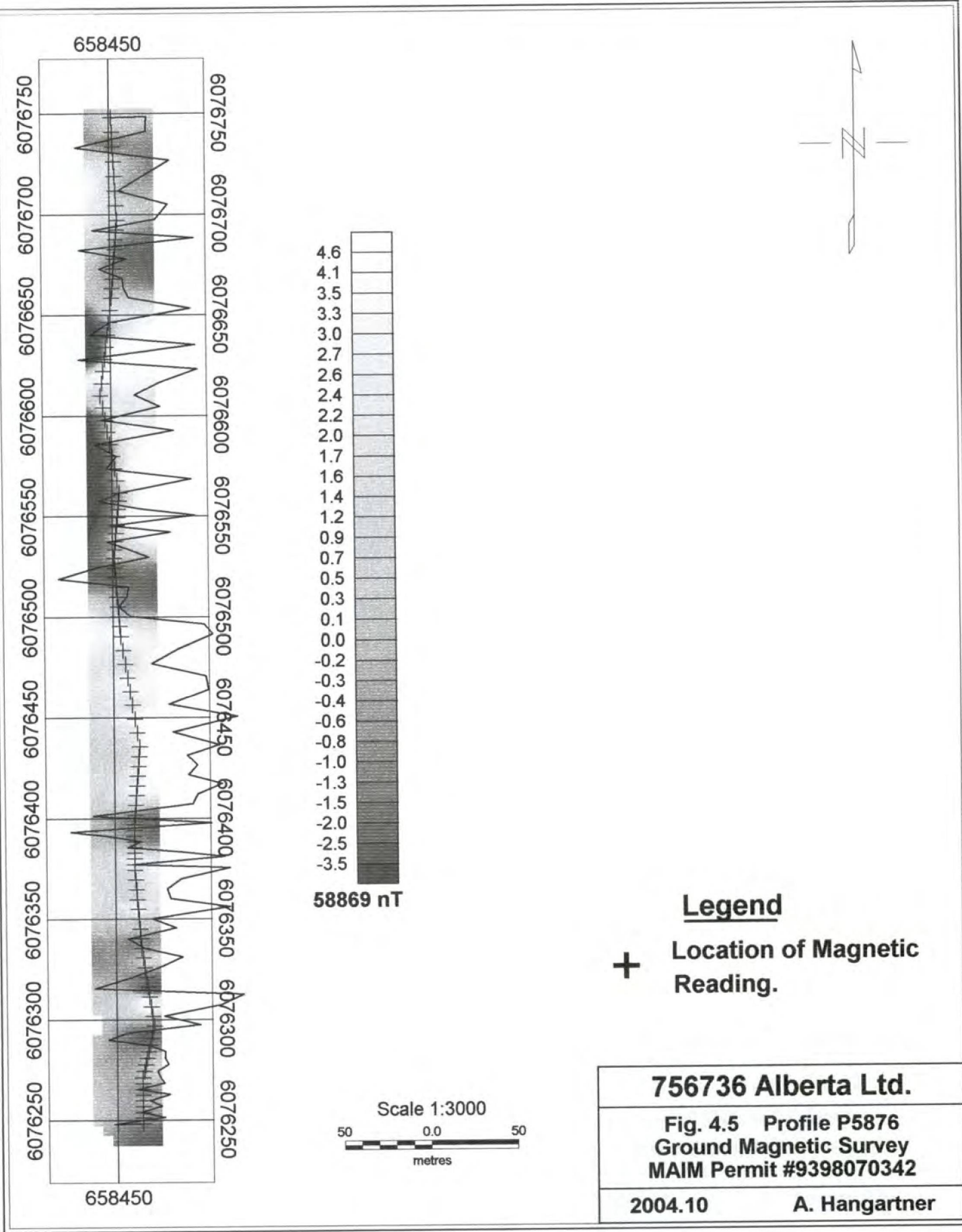


58895 nT

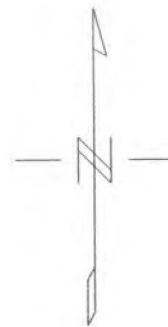
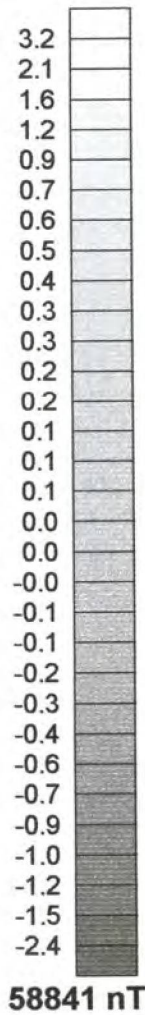
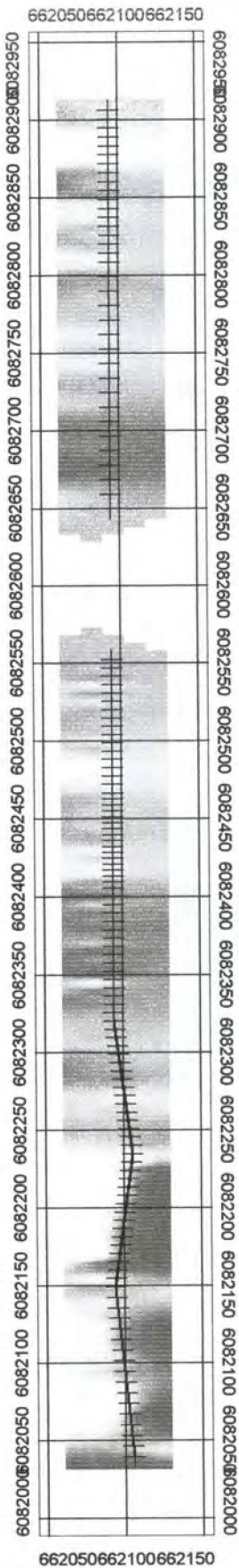


**Legend**  
 + Location of Magnetic Reading.

<b>756736 Alberta Ltd.</b>	
<b>Fig. 4.4 Profile P5678 Ground Magnetic Survey MAIM Permit #9398070342</b>	
<b>2004.10</b>	<b>A. Hangartner</b>







**Legend**  
 + Location of Magnetic Reading.

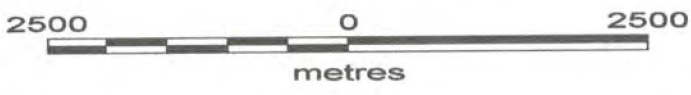
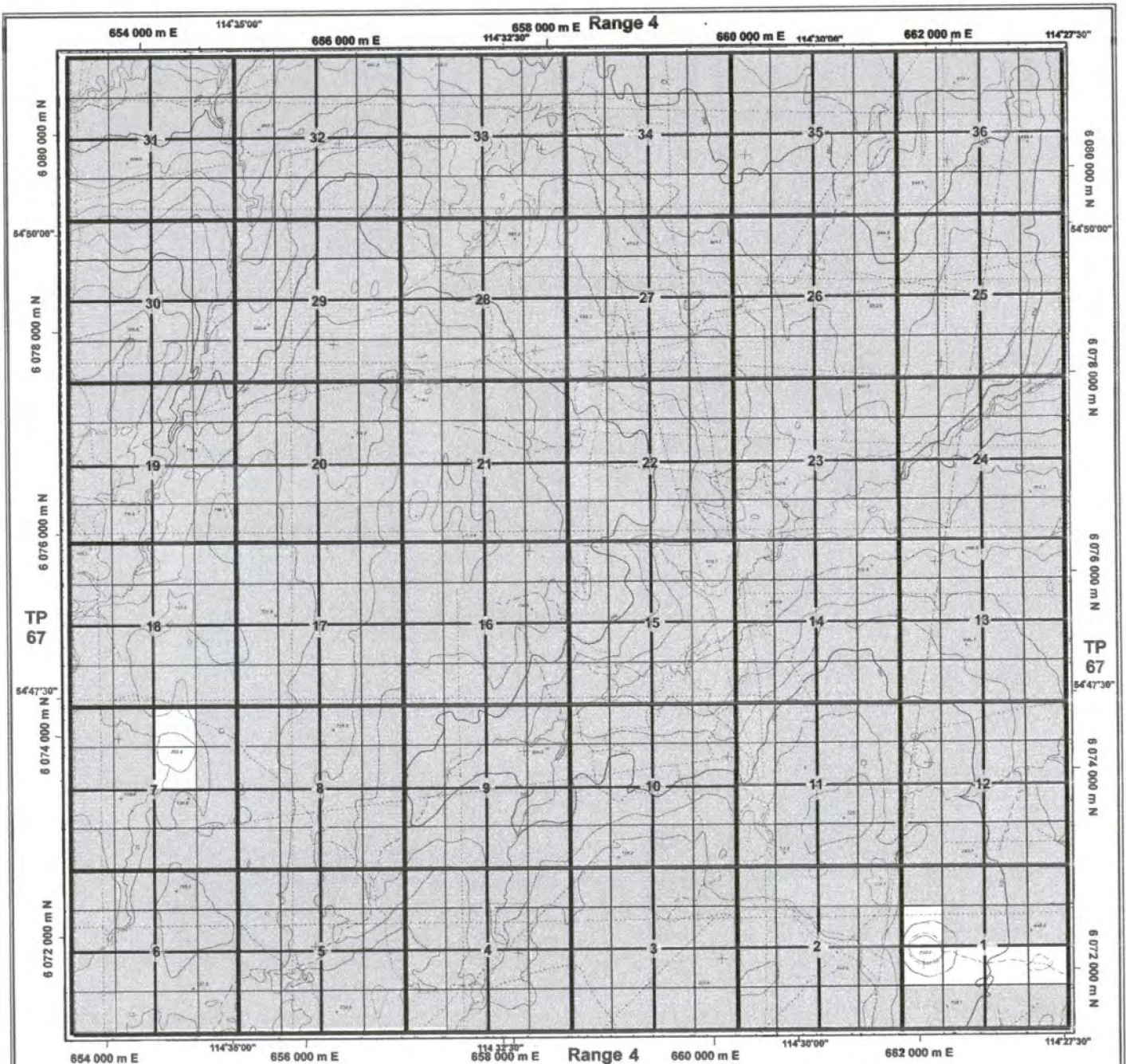
Scale 1:5000  
 100 0.0  
 metres

**756736 Alberta Ltd.**



**Fig. 4.6 Profile P6282  
 Ground Magnetic Survey  
 MAIM Permit #9398070343**

**2004.10**

**A. Hangartner**



**Symbols**

-  - Cancelled active permit LSDs.
-  - Retained active permit LSDs.

**756736 Alberta Ltd.**

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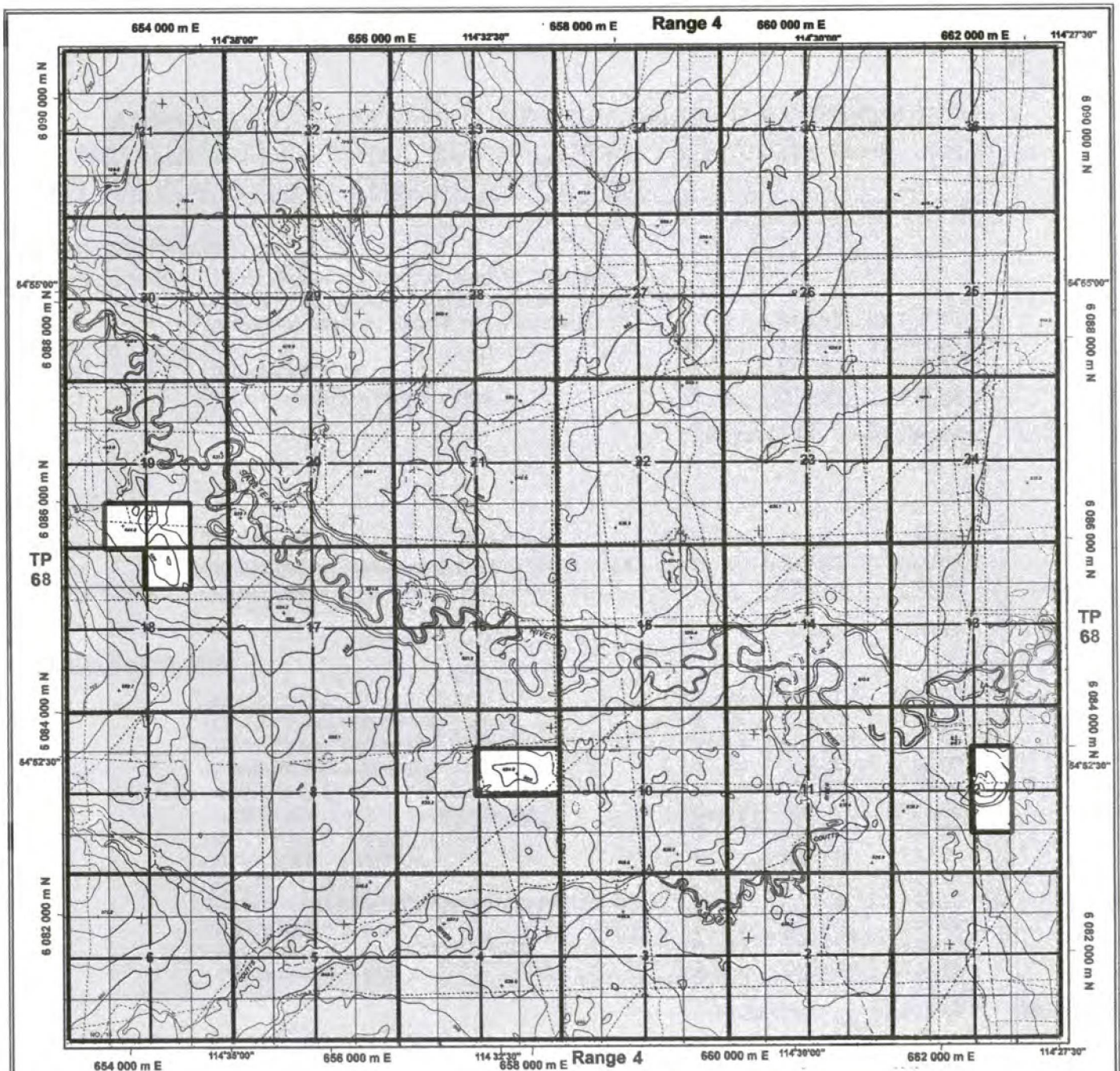
**Fig 6.1 Active Area Boundaries Map**

**MAIM Permit #9398070342**

---

**A. Hangartner** **2004.10**





**Symbols**



- Cancelled active permit LSDs.



- Retained active permit LSDs.

**756736 Alberta Ltd.**

**Fig 6.2 Active Area  
Boundaries Map**

**MAIM Permit #9398070343**

**A. Hangartner**

**2004.10**

## APPENDIX 1: STATEMENT OF REASONABLE EXPENDITURES

METALLIC AND INDUSTRIAL MINERALS PERMIT 9398070342, Coult's Creek Area.

### EXPLORATION SERVICES - 756736 ALBERTA LTD.

Description	Per	Rates Charge	Cost (\$)	Total Cost (\$)
<b><u>Salary and Wages</u></b>				
A. Hangartner - consultations, data processing, drafting, exploration, ground magnetometer surveys, gridding, mineral sampling, reporting				
Helper(s) -travel				
(2 per.) - total travel time for services				
<b>Total Cost:</b>			<b>\$3,230.00</b>	<b>\$3,230.00</b>
<b><u>Field Costs</u></b>				
-meals & lodging - total meal expenses for services	8 dy	\$30.00	\$240.00	
(2 per.) - total accomodations expenses for service	8 nt	\$40.00	\$320.00	
Field Supplies - cords, batteries, ribbon, hip chain, etc.		\$30.58	\$30.58	
<b>Total Cost:</b>			<b>\$590.58</b>	<b>\$590.58</b>
<b><u>Rental Equipment</u></b>				
- truck rental, 1/2 or 3/4 ton	5 dy	\$80.00	\$400.00	
- GSM-19 Magnetometer rental	3 dy	\$64.00	\$192.00	
- GSM-19 Magnetometer Base Station renta	3 dy	\$64.00	\$192.00	
- pentium computer system rental	5 dy	\$35.00	\$175.00	
- data logging device rental	3 dy	\$30.00	\$90.00	
- global positioning system rental	5 dy	\$30.00	\$150.00	
- gridding equipment rental	3 dy	\$30.00	\$90.00	
- lap top CPU pentium	5 dy	\$30.00	\$150.00	
- quad 6x6 rental	5 dy	\$110.00	\$550.00	
- base global positioning system rental	3 dy	\$20.00	\$60.00	
- utility trailer rental	5 dy	\$30.00	\$150.00	
- X-country ski equipment rental	6 dy	\$20.00	\$120.00	
- office space rental	24 mo	\$15.00	\$360.00	
<b>Total Cost:</b>			<b>\$2,679.00</b>	<b>\$2,679.00</b>
<b><u>Office Charges, Administrative, General</u></b>				
- phone, internet, Fax, etc.			\$25.00	
- office supplies, paper, ink carts, lamintation			\$25.75	
- Maps	1 map	\$9.25	\$9.25	
<b>Total Cost:</b>			<b>\$60.00</b>	<b>\$60.00</b>
<b>Grand Total</b>				<b>\$6,559.58</b>

Above is a summary of reasonable expenditures ascribed from quoted commercial equipment rental rates less 10 or 20%. Many, many more man hours than the summary above indicates were spent on this project, and one could reasonably ascribe some \$60.00 per man hour to work of this nature in professional fees, however, this would be an unreasonable amount to justify considering the qualifications of the exploration teams, therefore, [redacted] per man hour and the shortened claimed duration should be appropriate.

## APPENDIX 2: STATEMENT OF REASONABLE EXPENDITURES

METALLIC AND INDUSTRIAL MINERALS PERMIT 9398070343, Coult's Creek Area.

### EXPLORATION SERVICES - 756736 ALBERTA LTD.

Description	Per	Rates Charge	Cost (\$)	Total Cost (\$)
<b><u>Salary and Wages</u></b>				
A. Hangartner - consultations, data processing, drafting, exploration, ground magnetometer surveys, gridding, mineral sampling, reporting				
Helper(s) - travel				
(2 per.) - total travel time for services				
<b>Total Cost:</b>			<b>\$2,220.00</b>	<b>\$2,220.00</b>
<b><u>Field Costs</u></b>				
-meals & lodging - total meal expenses for services	4 dy	\$30.00	\$120.00	
(2 per.) - total accomodations expenses for service	4 nt	\$40.00	\$160.00	
Field Supplies - cords, batteries, ribbon, hip chain, etc.		\$81.50	\$81.50	
<b>Total Cost:</b>			<b>\$361.50</b>	<b>\$361.50</b>
<b><u>Rental Equipment</u></b>				
- truck rental, 1/2 or 3/4 ton	3 dy	\$80.00	\$240.00	
- GSM-19 Magnetometer rental	1 dy	\$64.00	\$64.00	
- GSM-19 Magnetometer Base Station renta	1 dy	\$64.00	\$64.00	
- pentium computer system rental	2 dy	\$35.00	\$70.00	
- data logging device rental	1 dy	\$30.00	\$30.00	
- global positioning system rental	2 dy	\$30.00	\$60.00	
- gridding equipment rental	1 dy	\$30.00	\$30.00	
- lap top CPU pentium	3 dy	\$30.00	\$90.00	
- quad 6x6 rental	2 dy	\$110.00	\$220.00	
- base global positioning system rental	2 dy	\$20.00	\$40.00	
- utility trailer rental	3 dy	\$30.00	\$90.00	
- X-country ski equipment rental	2 dy	\$20.00	\$40.00	
- office space rental	24 mo	\$15.00	\$360.00	
<b>Total Cost:</b>			<b>\$1,398.00</b>	<b>\$1,398.00</b>
<b><u>Office Charges, Administrative, General</u></b>				
- phone, internet, Fax, etc.			\$20.00	
- office supplies, paper, ink carts., lamintation			\$18.28	
- Maps	1 map	\$9.25	\$9.25	
<b>Total Cost:</b>			<b>\$47.53</b>	<b>\$47.53</b>
<b>Grand Total</b>				<b>\$4,027.03</b>

Above is a summary of reasonable expenditures ascribed from quoted commercial equipment rental rates less 10 or 20%. Many, many more man hours than the summary above indicates were spent on this project, and one could reasonably ascribe some \$80.00 per man hour to work of this nature in professional fees, however, this would be an unreasonable amount to justify considering the qualifications of the exploration teams, therefore, [redacted] per man hour and the shortened claimed duration should be appropriate.

## **Appendix 3: Method of Ground Magnetic Surveying Employed.**

### **Collection Method**

The magnetic surveys were performed using an Overhauser Model GMS-19 Memory Magnetometer carried by the operator devoid of any magnetic materials and other ferrous metals. The operator walked each survey line, recording continuous time and magnetic intensity readings at 3 second intervals. At fixed stations along each survey line, the exact time of arrival and the location of the station were logged for post processing. After the survey lines were finished, a tie-line traversing the grid intersecting the lines at known locations was completed for additional reference.

The base magnetometer, an Overhauser Model GSM- 19 located at a fixed position operating in base mode, recorded continuous time and magnetometer readings at 3 second intervals for post processing diurnal correction. Both units are proton magnetometers with omnidirectional sensors.

### **Processing Method**

The collected data, base (time and reading), mobile (time, reading and location) and the GPS readings- were downloaded in the field to a Pentium II/266 based laptop processor. The data was then uploaded, via the Internet, for post processing and plotting.

Using a program, written in Microsoft Access on a Pentium II/300 PC processor, variations of the base station were subtracted from the field (or mobile) instrument data to give a data set which varies only with position. The GPS information was used to map the grid and the grid description was used to scale the location of each station. The logged time, location and grid location information were used to correlate measurements with location. The data collected at each station is therefore attributable to local variations in magnetic materials in the underlying rocks. Another Microsoft Access program module was used to process the data collected at 3 second intervals by spacing the readings evenly between the station locations at which they occurred. The addition of the latter process gives a more accurate presentation of what data might be present between stations.

The data was then contoured using Geosoft Oasis Software. The maps produced represent a set of contours joining points of equal magnetic field intensity measurements (i.e. an isomagnetic contour map), which in turn are determined from a grid of equally spaced points between nodes that have been interpolated from the original data.

CANADA  
PROVINCE OF ALBERTA  
TO WIT:

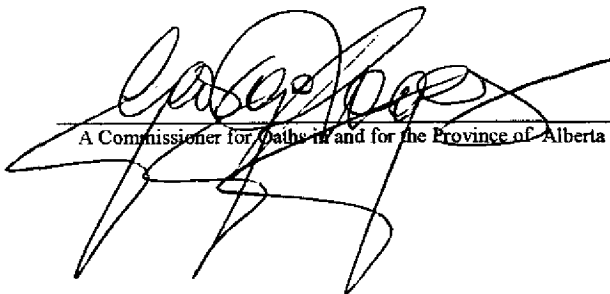
IN THE MATER OF **Metallic & Industrial Minerals**  
Permit Nos. 9398070342 & 9398070343.

I, August Hangartner of 4011-37 AVE., Leduc  
Alberta, T9E 6E1, do solemnly declare: That costs as outlined in the 2002 - 2004  
Exploration of the Coult's Creek Area Property assessment of metallic and industrial  
permits report were expended as indicated in the Summary of Reasonable Expenditures.

And I make this solemn declaration conscientiously believing it to be true, and knowing  
that it is of the same force as if made under oath and by virtue of The Canada Evidence  
Act.

Declared before me at the CITY  
of Leduc in the Province  
of Alberta, this 04 day of MAR, A. D. 2005



  
A Commissioner for Oaths in and for the Province of Alberta

GEORGE ROGERS  
MEMBER OF THE LEGISLATIVE ASSEMBLY  
COMMISSIONER FOR OATHS  
PROVINCE OF ALBERTA

Printed or Stamped name of Commissioner for Oaths  
and date on which appointment expires

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**A. Hangartner**

**President  
756736 Alberta Ltd.**