

2013-05-03

VLF EM-16 Ground Survey

Bishop Property

Claim: 4252621

(11 units)

Glen TWP

G-00160

Thunder Bay Mining Division



Ted Cox

May 3, 2013

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INTRODUCTION

A VLF Electromagnetic survey was conducted by the author on claim 4242043 in Glen TWP, located in the Thunder Bay Mining Division. Fieldwork and data representation were completed. Truck and snowmobile mobility was utilized daily to access the claim.

PROPERTY

The Bishop Property consists of 2 contiguous claims totalling 16 units. Claim 4242043 holds 5 units @ 80 ha. Claim 4242043 holds 11 units @ 176 ha. (See Mining Lands Tenure Map: G-00160 Glen Township.)

LOCATION AND ACCESS

The 2013 surveyed grid is accessed by driving approximately 100 km south on Hwy 11 to Nipigon, then right on Hwy 17 for another 40 km until turning right on the red, graveled, 'Fish Hatchery Road.' Favoring the Northwesterly routes for 10 km a maze of country roads are used to reach the 'Wolf Lake Road.' Road access through the property is completed by traveling 3 km east on the Wolf Lake Road, and left for 2 km on the Cavern Lake Road. The Cavern Lake Road intersects the surveyed grid lines just south of the base line.

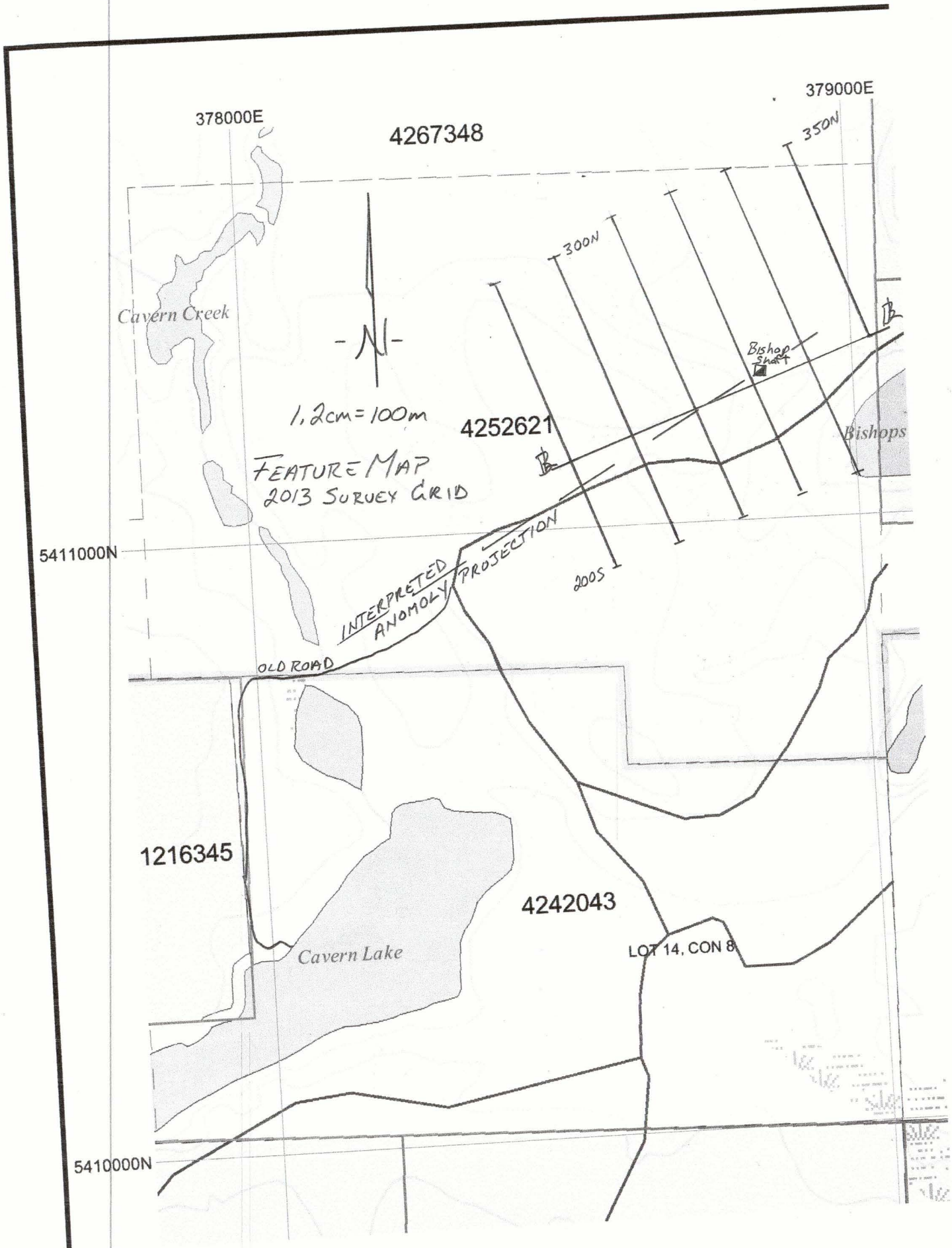
PROJECT SUMMARY

The survey was conducted over a strategically orientated grid to maximize the perpendicularity of the instrument to the predicted axis of the unconformity. The flagged lines totaled 3000m. Line spacing is 100m along a 500m base line, striking 70* east. Readings were taken at 25m intervals along the lines. The field work was conducted on April 25th, 26th, 27th, 28th, and 29th 2013 by Michael Goodman of Beardmore ON, and the author.

This report and associated maps were drafted during May 1st, 2nd and 3rd 2013 by the author. Suggestions are provided for further work based on interpreted data.

INSTRUMENTATION

The VLF survey was conducted using a GEONICS EM 16. Cutler Maine's transmission was used at 24.0 KHz. All readings were taken at 25m intervals, facing north.



INTERPRETATION OF RESULTS

After plotting the data in a plan view, I would suggest that the reoccurring signatures on each line are expressing magnetic clays to the south of the grid. Physical observation of a cedar swamp; and characteristics of the quadrature and dip angle correlate well, and determine an overburden related conductor.

‘There has been a disturbance in the force.’ A pattern of slight alterations in the magnetic field were noticed striking at a 55* AZ across the grid. The feature correlates with the position of the Bishop Shaft, and the strike of the lead/zinc deposits along this unconformity. This disturbance in the smooth, descent of the dip angle may be a follow able signature for prospecting and stripping along strike.


RECOMMENDATIONS FOR FURTHER WORK

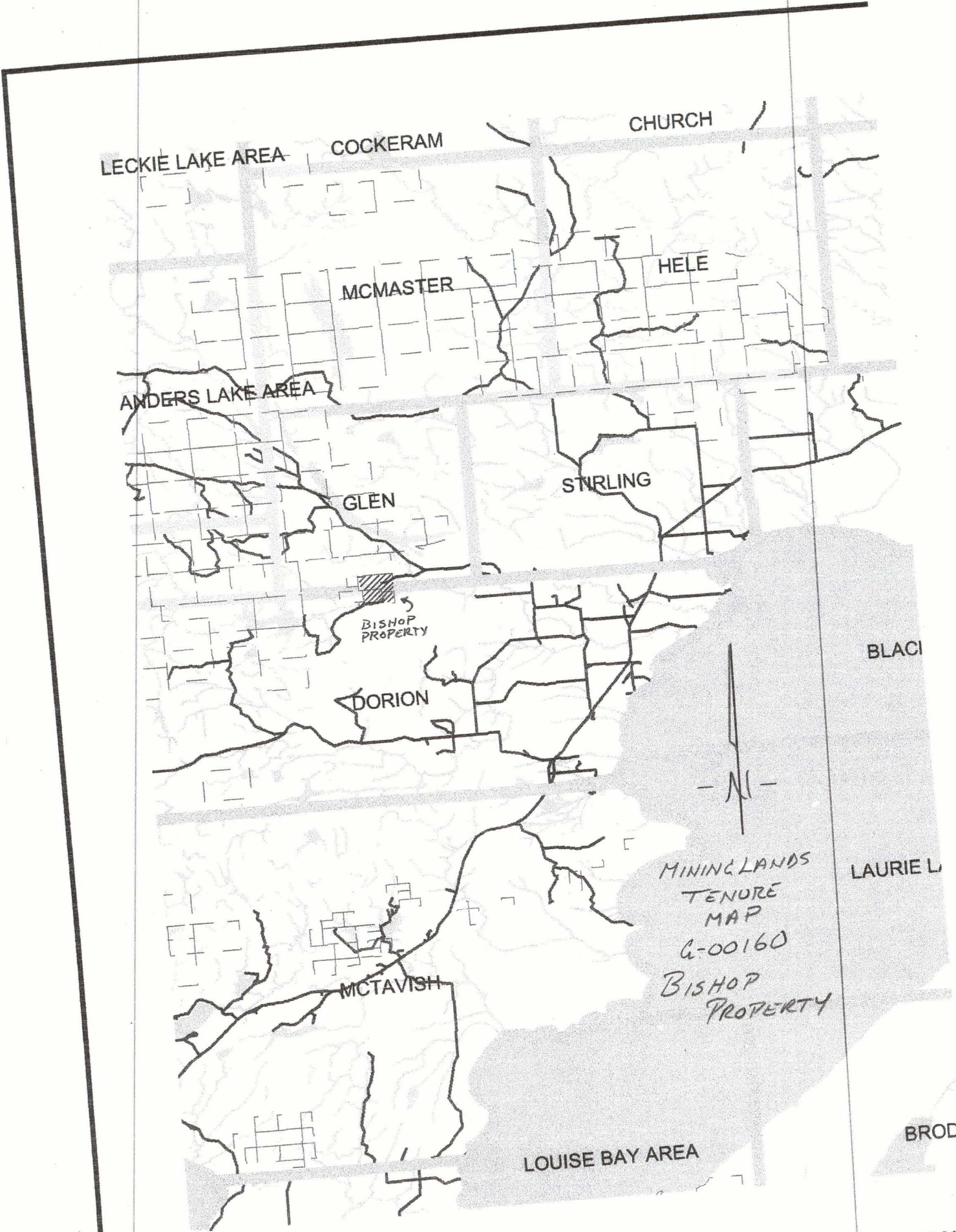
This summer, I plan to prospect and sample the unconformity to the southwest of the Bishop Shaft. More VLF work could be done off the southwest corner of this survey area. Also cross trenching and some continuous excavator stripping to the southwest along the plotted anomaly. A day should be spent renewing the safety fencing around the shaft and I will put up OPEN HOLE and DANGER signs.

AUTHOR QUALIFICATIONS

I, Ted Cox, do hereby qualify as follows:

- 1) That I am an independent geological / geophysical technician, and that I reside at 269 Garnet Drive, Beardmore Ontario.
- 2) That I am a graduate of Cambrian College, Sudbury, Ontario 2000, with a Geological Engineering Degree. This course included Geophysical Field Camp, and Geophysical Interpretation.
- 3) That I have been practicing my profession in mineral exploration since 1994.
- 4) That I have completed the additional maps and am the author responsible for this report's contents.

May 3, 2013..........Ted Cox



LECKIE LAKE AREA

COCKERAM

CHURCH

MCMASTER

HELE

ANDERS LAKE AREA

GLEN

STIRLING

BISHOP PROPERTY

DORION

BLACI

MINING LANDS
TENURE
MAP
G-00160
BISHOP
PROPERTY

LAURIE L

MCTAVISH

BRODI

LOUISE BAY AREA

02/05/2013



BISHOP PROPERTY 2013

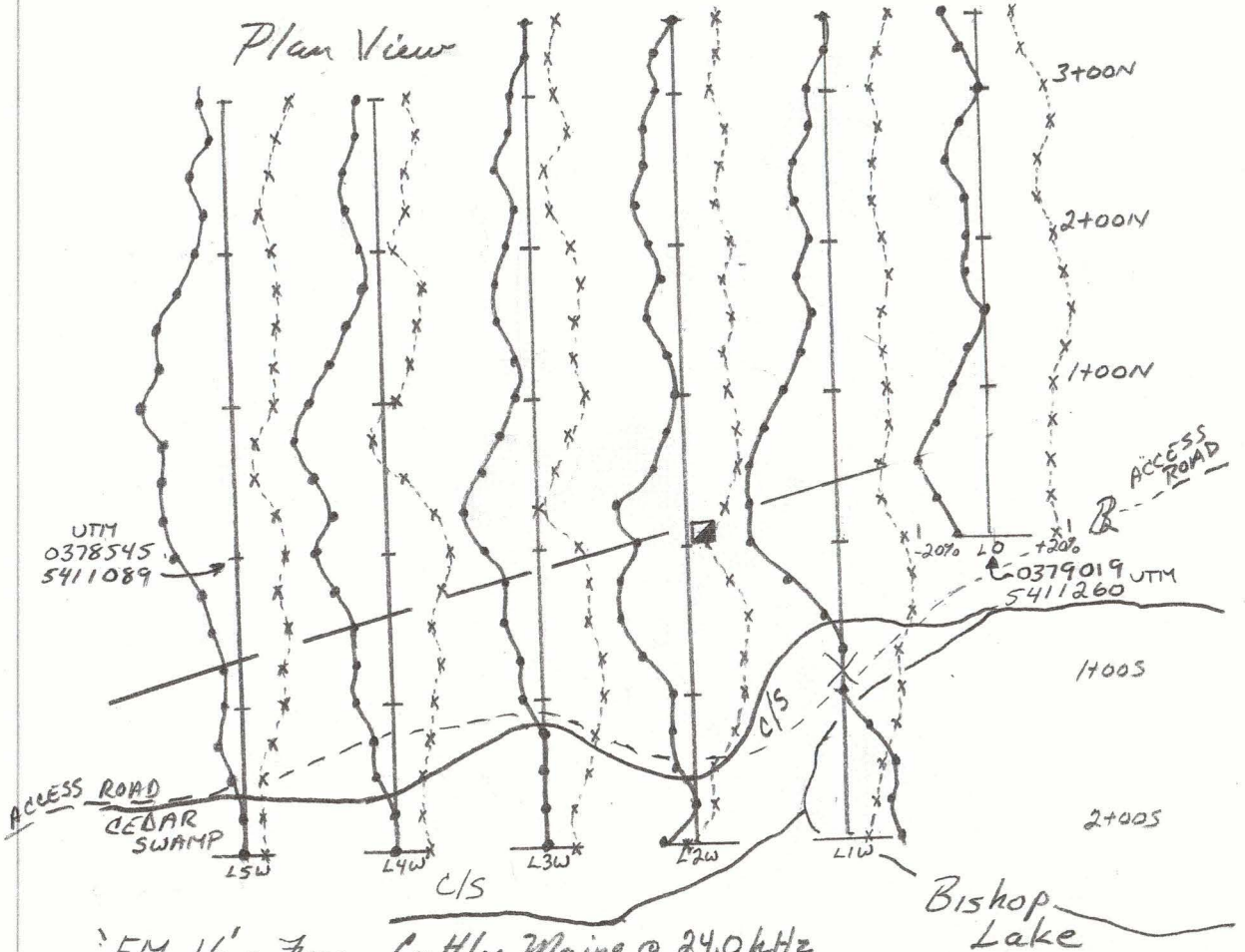
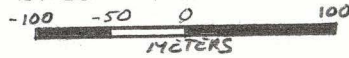
CLAIM # (4252621)

VLF GROUND SURVEY

FIELD WORK BY: M. GOODMAN & T. COX

PLOT BY: T. COX

SCALE 1:5000



EM 16' - Freq. Cutler Maine @ 24.0 kHz

- Dip Angle
 - Quadrature
 - Bishop Shaft
 - Crossover
 - ANOMOLY
- } as a percent +/-



BISHOP PROPERTY
2013

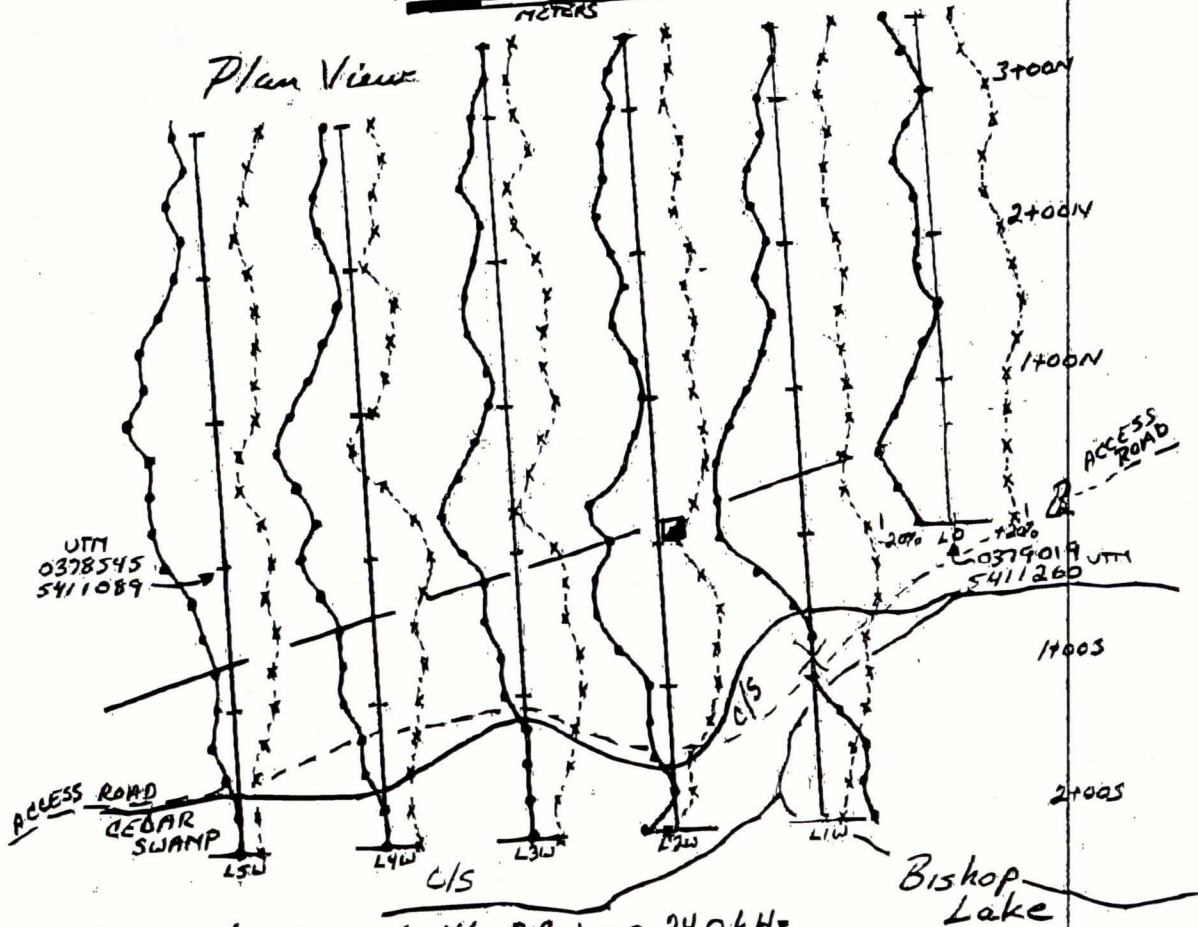
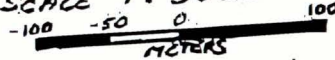
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VLF GROUND SURVEY

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SCALE 1:5000



EM 16' - Freq. Cutler Maine @ 24.0 kHz

- Dip Angle
 - ANOMALY
 - Bishop Shaft
 - Crossover
- as a percent + or -

NOTES

QUIPA TOPS

+16 c/o

+14

85N -15

0

+16

100 -10

0

+18

200 -5

0

+14

50 -10

0

+10

25 -5

0

+16

300 0

0

+18

75 -5

0

+14

50 -10

0

+12

50 +10

0

+12

50 +5

0

+14

175 +10

0

+18

200 +5

0

+12

25 +10

0

+10

50 +10

0

+12

25 +10

0

+12

25 +10

0

+12

25 +10

0

+12

25 +10

0

FACING NORTH

LINE

0400

STA DIP

8000 -10

QUIPA TOPS

+16 c/o

+14

50N -20

0

+14

75 -15

0

+14

100 -10

0

+14

25 -5

0

+18

50 -10

0

+10

25 -5

0

+16

300 0

0

+18

75 -5

0

+14

50 -10

0

+10

25 -5

0

+16

300 0

0

+18

75 -5

0

+14

50 -10

0

+10

25 -5

0

+16

300 0

0

+18

75 -5

0

+12

50 -10

0

ADDRESSED DEFICIENCIES

Field Notes for

VLF Survey @ Bishop

Property.

(LT# 4952621 (Calentur)

Readings are shown as a %
(climacterless units)

The instrument used
is a

RONKA EM16 Electromagnetic
detector. No 107

MADE IN TORONTO CANADA
PAT. 1967

Atomics Limited
JCF

LINE	STA	BIP	QUAD	TAP	NOTES
L1W	100W	+15	-12	*	C/D
	75	+20	-12	*	
	50	+25	-10		
	25	+25	-10		
	0	+25	-15		
L1W	-255	+15	-18		
	50	+5	-18		
	75	0	-14		
	100	0	-14		
	1355	-5	-12		
	50	-10	-8		
L1W	1755	-10	-6		
	4405	-12	-4		
L2W	2405	-10	-2		
	175	0	+4		
	14505	-5	+4		
	1+25	-5	+10		
	100	-5	+12		
	75	-15	+12		
	50	-20	+14		
	25	-20	+10		
	0	-15	+4		
	75	-20	+8		
	50	-10	+16		
	75	-5	+16		

3m Note

4th Bishop

LINE	DIP	QUAD	TAP	NOTES
L2W	-2	+10		
	-5	+10		
	-10	+12		
	-5	+10		
	-10	+12		
	-12	+8		
	-10	+10		
	-10	+12		
	-5	+8		
	-5	+10		
	0	+10		

hour of take an on plain time

C/D
too long

100	0	-8	
125	+5	-5	
50	+5	-5	
75	+10	-10	
200	+5	-5	
200N	+5	-10	
125	+10	-12	
150	+10	-10	
25	+5	-10	
100	+5	-12	
75	+10	-8	
50	+15	-4	
25	+20	0	
0	+15	-8	
25	+10	-12	
50	+10	-14	
75	+5	-14	
100	+5	-14	
25	0	-12	
50	0	-10	
75	0	-6	
200S	0	-6	

South
X
X

LINE	STA	DIP	BOUND	TOP	NOTES
Pool	200S	0	+8	X	
	75	0	+6		
	50	-5	+6		
	25	-5	+8		
	100	-10	+10		
	75	-10	+12		
	50	-10	+10		
	25	-15	+12		
	RD	-20	+14		
	25N	-15	+12		15m South of Road
	50	-20	+4		
	75	-25	-2		
	100N	-20	+2		
	25	-15	+6		
	50	-10	+8		
	75	-5	+10		
	200W	-10	+2		
	25	-10	+6		
	50	-5	+6		
	275N	-5	+10		
	300W	-5	+6		

South side of Rd
X
X

Fracturing Seals

LINE	STA	DIP	AND	TOP	NOTES
SW	3000	+6			*
	275	+2			
	50	+10			
	25	+6			
	200	+10			
	75	+15			d/o
	50	+20			
	25	+20			
	100	+22			
	75	+20			
	50	+20			
	25	+20			
	0	+18			
	25	+10			
	50	+8			
	75	+5			
	14005	+5			
	25	+6			
	50	+2			
	75	0			
SW	24005	0			

*Right On Road
Red Granite*

d/o

*

* EOL