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Geophysical Survey Report

covering

Borehole and Surface Pulse EM Surveys over the Sheraton Township Project for Golden Knight Resources Inc.

during February-September, 1998

by

RECEIVED APR 1 2 1939 GEOSCIENCE ASSESSMENT OFFICE

CRONE GEOPHYSICS & EXPLORATION LTD.

Survey Area:

Survey Type:

Holes Surveyed:

Lines Surveyed (Surface):

Survey Operator:

Survey Period:

Report by:

Report Date:

Submitted To:

Grid 330, Sheraton Township Timmins, Ontario

Surface PEM Survey 3D Borehole PEM Survey

SK9709, SK9710, SK9716, SK9719, SK9720, SK9824

6100W, 6200W, 6300W, 6400W 6500W, 6600W, 6700W, 3800W 3900W, 4000W, 4100W, 4200W

Wayne Pearson, Ray Miekel Crone Geophysics & Exploration Ltd.

February - September, 1998

Henry Odwar, M.Sc., Geophysicist.

October 1998

Golden Knight Resources Inc.



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1.0 INTRODUCTION

This geophysical survey report outlines the survey parameters for the 3D Borehole and Surface PEM survey carried out for Golden Knight Resources Inc. on the Sheraton Township (Nighthawk) 330 grid near Timmins, Northern Ontario by Crone Geophysics & Exploration Ltd. This report contains survey logistics, specification of the equipment and surveyed parameters. Included also are all the profiles of the three component borehole surveys along with sections and plans for each hole and profiles of the two component surface PEM surveys. There is an interpretation of the survey data in this report.

Pervious work for Golden Knight Resources Inc. was done in February - March, 1998. Since the property is jointly being explored with Cross Lake Minerals Ltd., an integrated interpretation is herein included that takes into account all the work done has been done to date.

2.0 PROPERTY LOCATION AND ACCESS

The survey area is located at Sheraton Township near Timmins, Ontario, Canada. The survey crew accessed the property on a daily basis by road from Timmins. The Gibson Lake Road cuts through the survey area which made moving equipment around much easier.

3.0 SURVEY PARAMETERS

Loop	Size (sq. m)	Location	Ramp Time	Current	Time Base	Channels
Ll	400, 400	4158W, 1631S 4171W, 2031S 3778W,2031S 3765, 1631S	1.5 ms	18 A	16.66 ms	20
L6	900,900	5900W,700S 6800W,700S 6800W,1600S 5900W,1600S	1.5ms	10 A	16.66ms	20
L7	1000,800	4400W, 2200S 4400W, 3000S 5400W,3000S 5400W,2200S	1.5 ms	10 A	16.66ms	20
A	1000,1000	3200W,2800S 3200W,1800S 4200W,1800S 4200W,2800S	1.5ms 0.5ms	8 A	16.66ms	20

3.1 Transmitter Loops

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Hole	Survey Date	Loop	Location	Dip °	Azimuth *	Depth (m)	Length Read (m)	Components
SK9709	06/02/98	LI	4153W/ 1473S	41	331	326	60-325	X, Y, Z
SK9710	13/09/98	A	3907W/1199S	49	330	440	40 - 440	X, Y, Z
SK9716	12/02/98	LI	3907W/1285S	53	153	297	65-294	X, Y, Z
SK9719	07/02/98	L1	4015W/1573S	51.8	328	326	80-700-410	X, Y, Z
SK9720	28/08/98	A	3850W/1487S	50	330	320	70 - 320 ·	X, Y, Z
SK9824	18/03/98	L1	4000W/1725S	50	330	540	150-560	X, Y, Z
SK9824	23/08/98	A	4000W/1725S	50	330	540	60 - 540	X, Y, Z

3.2 Boreholes

3.3 Surface Lines

Line	Survey date	Loop	Segment Read	Coverage (m)	Components
6100W	May 26	L6	000S - 700S	700	X, Z
6100W	May 28	. L6	1600S - 3000S	1400	X, Z
6200W	May 26	L6	000S - 700S	700	X, Z
6200W	June 2	L6	1600S - 3000S	1400	X, Z
6300W	May 26	L6	000S - 700S	700	X, Z
6300W	May 29	L6	1600S - 3000S	1400	X, Z
6400W	May 26	L6	000S - 700S	700	X, Z
6400W	May 31	L6	1200S - 2600S	1400	X, Z
6500W	May 28	L6	1600S - 3000S	1400	X, Z
6600W	May 31	L6	1900S - 2600S	700	X, Z
6600W	June 1	L6	1300S - 1900S	600	X, Z
6700W	May 29	L6	1600S - 3000S	1400	X. Z
6700W	June 1	L6	1400S - 1600S	200	X, Z
3800W	September 9	Α	600S - 2000S	1400	X, Z
3900W	September 10	Α	600S - 2000S	1400	X, Z
4000W	September 10	Α	600S - 2000S	1400	X, Z
4100W	September 6	A	600S - 2000S	1400	X, Z
4200W	September 6	Α	600S - 2000S	1400	X, Z

4.0 PERSONNEL

The personnel involved in data acquisition, processing and interpretation included:

Mario Ruel	Helper	Timmins, Ontario
Ray Miekel	Operator	Timmins, Ontario
Wayne Pearson	Operator	Timmins, Ontario
Henry Odwar	Presentation/Interpretation	Toronto, Ontario

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5. 0 SURVEY METHODS

5.1 Survey Equipment

The Crone Pulse EM system is a time domain electromagnetic method that utilizes an alternating pulsed primary current with a controlled shut-off and measures the rate of decay of the induced secondary field across a series of time windows during the off-time. The system uses a transmit loop of any size or shape. A portable **120VDC**, **4.5hp Motor Generator** powers the **PEM 2.4 kW**. **Transmitter** which provides a precise current waveform through the loop. The receiver apparatus is moved along surface lines or down boreholes.

The transmitter cycle consists of slowly increasing the current over a few milliseconds, a constant current, abrupt linear termination of the current ("Ramp Time"), and finally, zero current for a selected length of time in milliseconds ("Time Base"). The EMF created by the shutting-off of the current induces eddy currents in nearby conductive material thus setting-up a secondary magnetic field. When the primary field is terminated, this magnetic field will decay with time. The amplitude of the secondary field and the decay rate are dependent on the quality and size of the conductor. The receiver, which is synchronized to the off-time of the transmitter, measures this transient magnetic field where it cuts the receiver apparatus. These readings are across fixed time windows or "Channels" and are recorded with the **PEM Digital Receiver**. Synchronization between the receiver and transmitter is maintained by a direct cable, radio link, or **Crystal Clock**.

In surface line profiling methods, a **Receive Coil**, mounted on a tripod is used to measure the induced secondary field. The coil can be orientated to measure the vertical (dBz/dt), in-line horizontal (dBx/dt), and cross-line horizontal (dBy/dt) components.

The 3D borehole equipment uses a winch and cable to lower an Axial Component (Z) Probe and a Cross Component (XY) Probe down the hole to measure the three components of the induced secondary field. The depth is monitored with a manual wire counter mounted on the casing of the hole. The XY probe will rotate within the hole. This rotation can be measured by an Orientation Tool attachment which uses dipmeters to calculate the rotation and dip of the probe at every survey point.

Specifications for the equipment can be found in the Appendix.

5.2 Survey Procedure

3-D PEM Borehole. A single square transmit loop is normally used for the 3-D PEM survey. The width of the loop is at least half the depth of the hole. All holes are dummy probed first and then two passes are made. The first with the "Z" probe detects any in-hole or off-hole anomalies and gives information on size, conductivity and distance to edge of conductor. The second pass with the "XY" probe measures two orthogonal components of the EM field in a plane orientated

at right angles to the borehole. These results give directional information to the center of the conductive body.

The correction for the rotation of the XY probe can be determined in two ways. One is to compare the measurement of the "PP" channel to theoretical values and then calculate the amount of probe rotation. The second uses the Orientation Tool which directly measures the rotation and is accurate in holes up to 0.5 degrees from vertical.

DEEPEM. The DEEPEM method of surveying reads grid lines outside and perpendicular to the long side of a stationary transmit loop. The length of the line surveyed can be 1.5 to 2 times the width of the transmit loop, however since the effective penetration depth is drastically reduced at large distances from the transmit loop we strongly recommend not reading any further than 1 kilometer from the loop edge. The survey reads the vertical (dBz/dt) and the in-line horizontal (dBx/dt) components of the secondary EM field.

5.3 Project Logistics

Work for Golden Knight Resources Inc. started on May 25th, 1998 and completed on September 10, 1998. The work itself was part of the overall project that included surveys in the property owned by Cross Lake Minerals Ltd. Access to the field area was quick and the vehicle used for survey was driven to the holes. This made it easier for the crew to complete the assigned tasks in a timely manner.

5.4 Production Summary Table

Date Notes

Jan 28	Mobilization from Toronto to Timmins
Feb 06	Surveyed hole CLS9707, acquired Z component for SK9709
Feb 07	Completed surveying SK9709; Surveyed SK9719; laid loop L3
Feb 12	Surveyed hole SK9816; Demobilized
Mar 17	Acquired X and Y components for Sk9824
Mar 18	Acquired Z component for SK9824 (and CLS9846); pulled out
	L1 and L4
May 25	Wayne Pearson laid loop L6.
May 26	Surveyed lines 6100W, 6200W, 6300W and 6400W from 0S to
	650s.
May 27	Moved antenna for the next survey after which bad weather set in.
May 28	Surveyed lines 6100W and 6500W from 1600S to 3000S.
May 29	Surveyed lines 6700W and 6300W from 1500S to 3000S.
May 31	Surveyed lines 6400W and 6600W from 1200S to 2600S.
June 01	Lines 6500W and 6700W were survey from 1250S to 1600S; and surveyed lines 6600W and 6300W from 1300S to 1900S.
May 28 May 29 May 31 June 01	Surveyed lines 6700W and 6300W from 1500S to 3000S. Surveyed lines 6400W and 6600W from 1200S to 2600S. Lines 6500W and 6700W were survey from 1250S to 1600S;

June 02	Re-surveyed lines 6500W and 6300W from 1500S to 2100S. Line
	6200W was surveyed from 1600W to 3000W. Part of the survey
	loop was then picked up.
June 03	Picked up all the survey loop.
Aug. 22	Moved equipment to hole SK9824 and dummy probed it.
Aug. 23	Surveyed hole SK9824 then moved equipment to hole SK9720,
	which was dummy probed.
Aug. 28	Surveyed hole SK9720.
Aug. 29	Moved equipment from hole SK9720. The ATV got stuck and its
	axle got broken.
Sept. 02	Surveyed part of line 3800W and crew could not continue because
	of heavy rain.
Sept. 03	Part of line 3900W was surveyed and again work was interrupted
	by heavy rain.
Sept. 04	Surveyed lines 4000W and 4100W.
Sept. 06	Surveyed parts of lines 4000W and 4100W.
Sept. 07	Completed line 3800W and started on a line which is on Cross
	Lake Minerals Ltd. property.
Sept. 10	Completed parts of lines 3900W and 4000W.

6. 0 INTERPRETATION

This section discusses the results from the PEM data acquired for Golden Knight Resources Inc. at its Sheraton property near Timmins during February - September, 1998. The section is separated into two parts; borehole and surface surveys.

Borehole Survey

Each of the holes are discussed briefly below.

- **SK9709** There is a weak 6 channel in-hole anomaly at 100 meters depth in the hole which probably coincides with a pyrite zone which was intersected at this depth. The X and Y components indicate this conductive zone extends down dip and along strike both east and west of the hole.
- **SK9710** An anomaly is observed at between 330m and 340m depth down the hole. Since the loop is reverse coupled to any conductive body in the hole, the observed 12 channel response is an in-hole. The X and Y component indicate that the conductive body is centered below and to the west of the

hole (see appendix A, interpreted conductor E). The response is similar to some of those encountered in the area. The causative body is likely to be a weak conductor, probably an intersected disseminated sulphide zone.

- **SK9716** Since this hole was drilled grid south and surveyed with a transmit loop located well south of the hole, a reversed coupling is observed here. The weak negative anomaly in the Z component profile therefore is actually an in-hole response and is probably due to the pyrite zone which was intersected at this depth. This zone is interpreted to extend down-dip and continues both (grid) east and west of the hole.
- **SK9719** A very weak 5 channel off-hole response occurs at 220 meters indicating a poor conductor is located below and east of the hole at this point.
- **SK9720** The observed response in this hole is a subtle 9 channel anomaly at 160 meter depth down the hole. The attached diagram shows the loop has a poor coupling to any steeply dipping bodies. The loop is also reversed coupled to such a body. The positive rather broad peak in the Z component therefore indicates the anomaly is an off-hole. The X and Y components show that the conductive body is located west of and centered above the hole(see appendix A, interpreted conductor G).

Since the coupling is poor for this hole, it is difficult to comment on the importance of the relative strengths, as the responses may appear much stronger from a well coupled loop. It is recommended that a different loop configuration that would couple well with the conductive body be used.

SK9824 This hole was originally surveyed in March of 1998 and then later resurveyed in August with a different transmit loop configuration. This later survey confirms that the anomalous response is the same one identified in March. The response is a weak 10 channel off-hole response observed at about 360m depth. The anomaly is most likely due to a weakly conductive body. This weak conductor can still be a very attractive target in some environments such as those rich in zinc or gold mineralization. The X and Y components responses indicate the conductor is located below and to the east of the hole(see appendix A, interpreted conductor D).

SURFACE

Four separate surface PEM surveys were carried out on the Sheraton property during the time interval of February - September, 1998. Loop L6 was used to survey lines 6100W to 6700W for Golden Knight Resources Ltd. while loops A and L7 were for the property

shared by Golden Knight Resources Inc. and Cross Lake Minerals Ltd. The surface PEM data for all loops are presented as contours of channel six and in addition to this an anomaly map has been produced.

For the surface work done using loop L6, there is an anomalous zone between 1600S and 2100S on line 6700 W that appears to trends south-east to between 2000S and 2400S on line 6500 W. This trend is highlighted on the colour contour plots of the horizontal component for channel 6 (following the 60 nT/s contour). On line 6500 W a pronounced peak is evident in the horizontal component at ~ 2175 S and a similar response is observed on line 6200 W at ~ 2100 S. These response patterns are highlighting a significant conducting zone which appears as a very promising target in this environment. The response only extends to 9 channels but this is a typical response for this area. The anomalous zone is interpreted as being due to a bedrock and probable deep source(s) with the responses on line 6500 W and 6200 W (see colour contour map) in particular appearing as good targets.

To the north of loop L6, the zone between 100S and 400S is also interesting as it is more anomalous, and should be investigated further if no drilling has been done.

For the surface work done in May-September (loop A), the zone between 1700S and 1900S has a subtle peak in the horizontal (X) component. Since the loop wire was situated in the middle of this zone, the observed subtle peak could be an effect due to the near proximity of the wire. In order to make certain that the effect is not due to the wire, it is necessary to survey this strip by using a loop located further south. Also for the surface work done using loop A, there is a build up in the early channels for the horizontal (X) component on lines 3800W through and including 4200W. This suggests that there is likely to be a conductive body further north and this possibility should be investigated. A 400m by 400m loop with its northern edge situated at about 800S should resolve whether there is an anomaly.

7. 0 SUMMARY

All the holes surveyed for Cross Lake Minerals Ltd. and Golden Knight Resources Inc. are plotted in one large map (see Borehole and Interpretation Location map, appendix A). Holes SK9709, SK9710, SK9716, SK9719, SK9720 and SK9824 belong to Golden Knight Resources Inc. SK9716, SK9719 and SK9824 were surveyed in March. They fall within the surface PEM anomalous zone defined by the 100 nT/s contour (see Surface Pulse EM Survey - In-line Horizontal (X) component map, May-September).

Holes SK9710, SK9716 and SK9720 seem to target the same horizon. Conductors B and G, therefore probably represent a continuous body along strike with conductor E probably representing the anomalous expression of this zone at depth. Likewise conductor C and D are interpreted as being due to one continuous zone. Conductor A is further away and from the borehole surveys alone it would be very difficult to correlate this anomaly with

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the other anomalies. However, the surface PEM results indicate this hole is testing the same zone and therefore all identified borehole anomalies are most likely due to the same anomalous source.

Based on the combination of borehole and surface PEM results for the Sheraton 330 grid, the conclusion is the observed EM response is due to a broad ,weak conductive zone. Several holes indicate the conductors are located/centered below the hole indicating the potential for this zone to have a significant depth extent and if the mineralization is favourable deeper holes may be warranted .

The broad surface PEM anomaly evident on the horizontal component on the Nighthawk 330 grid *appears* to be a continuation of the anomalous zone identified on the Sheraton 330 grid. On the Nighthawk grid the most promising area is defined by the well defined anomalies on line 6500 W at ~2175 S and station 2000S on line 6200 W. If these have anomalies have yet to be tested, they rank as high priority targets for future exploration efforts.

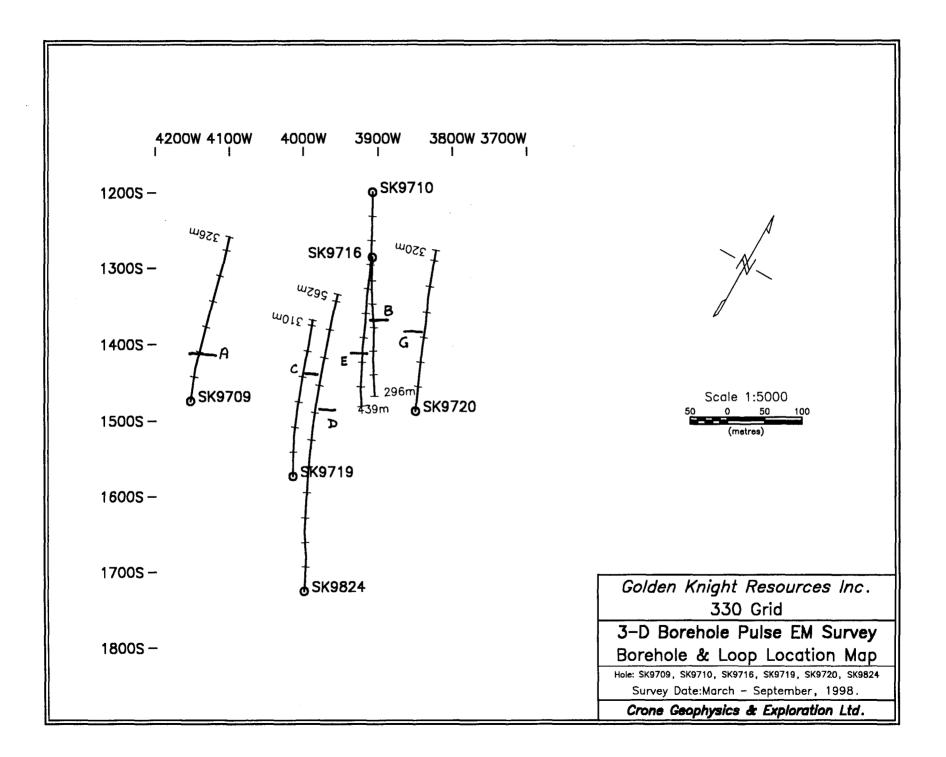
Additional isolated anomalies have been selected and plotted on the enclosed plan maps. In general these anomalies are sharp and exhibit low conductivity. The cause of these are likely to be near surface (and possible disseminated sulphide) sources. Overall though the response of most interest, and the one which should be concentrated on, is the broad positive peak in the X component which is well defined by the colour contour maps.

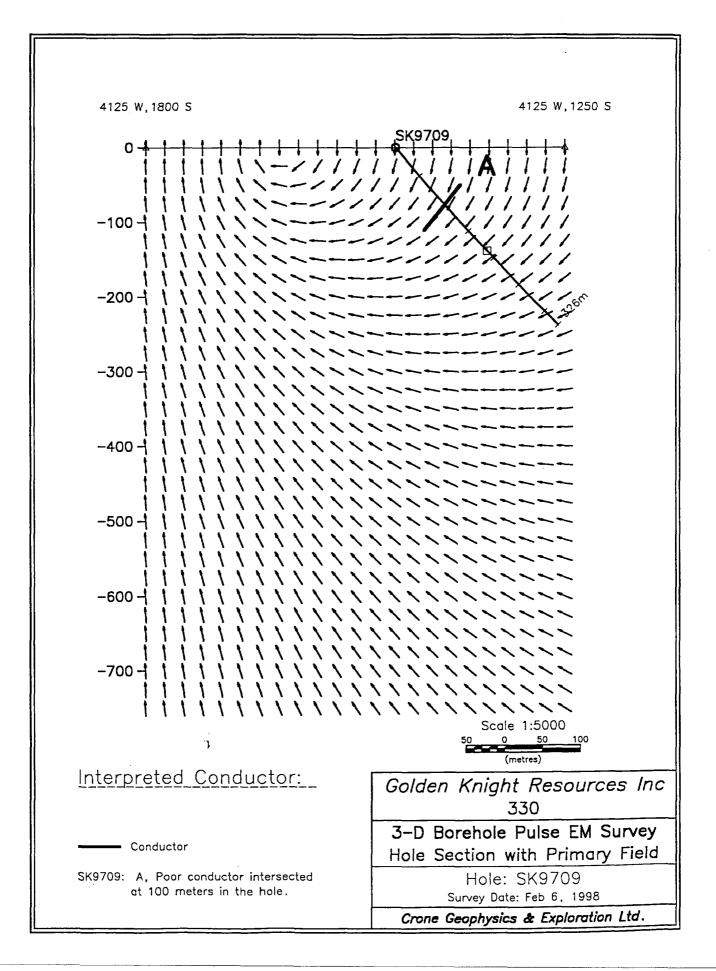
Respectfully Submitted

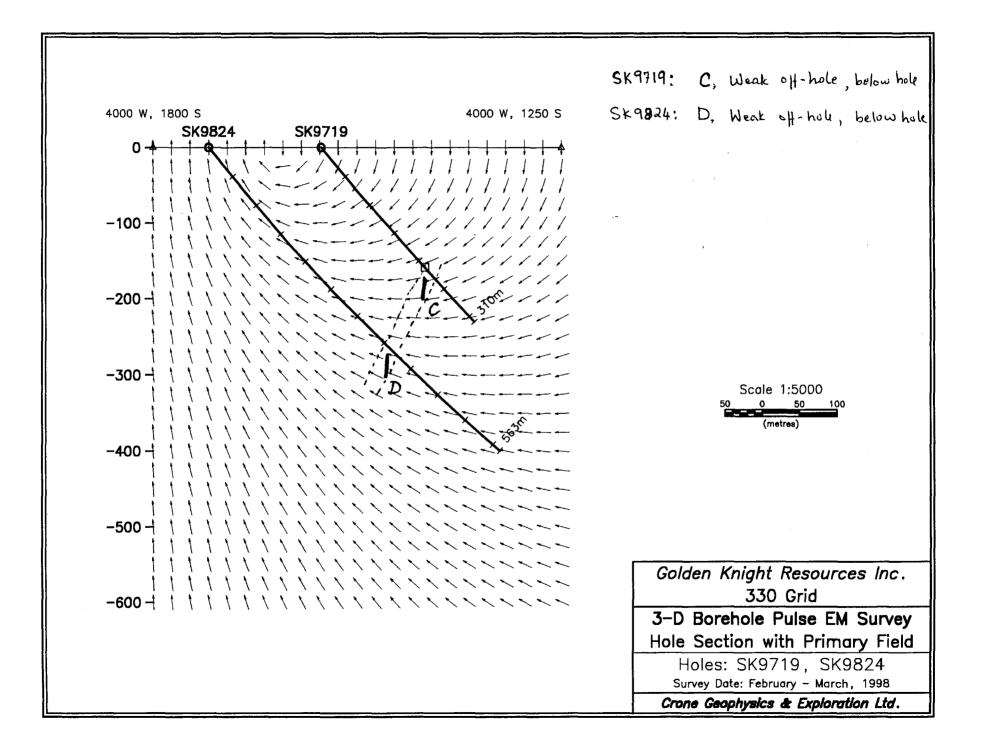
Henry Odwar, M.Sc. Geophysicist Crone Geophysics & Exploration Ltd. October, 1998.

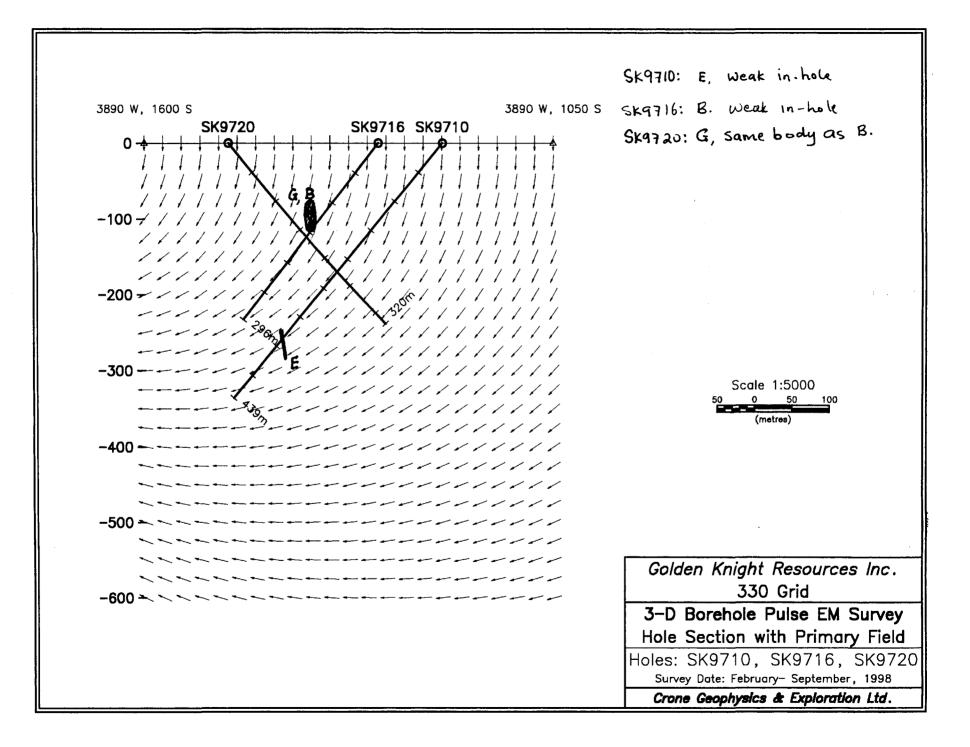
APPENDIX A

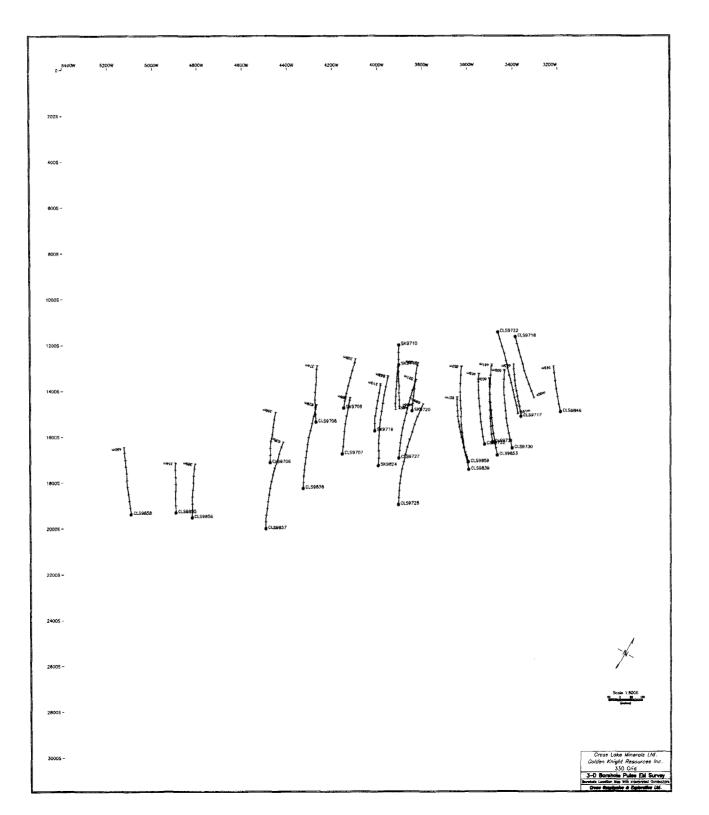
PLAN MAPS AND PRIMARY FIELD SECTIONS

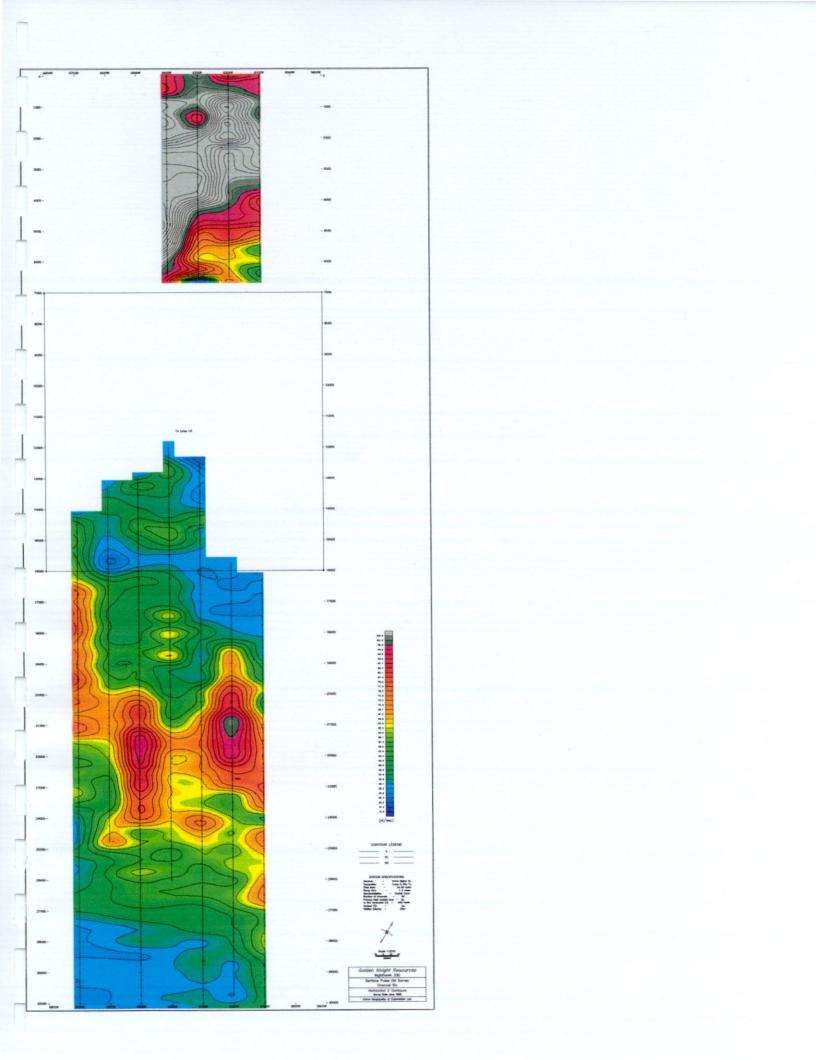


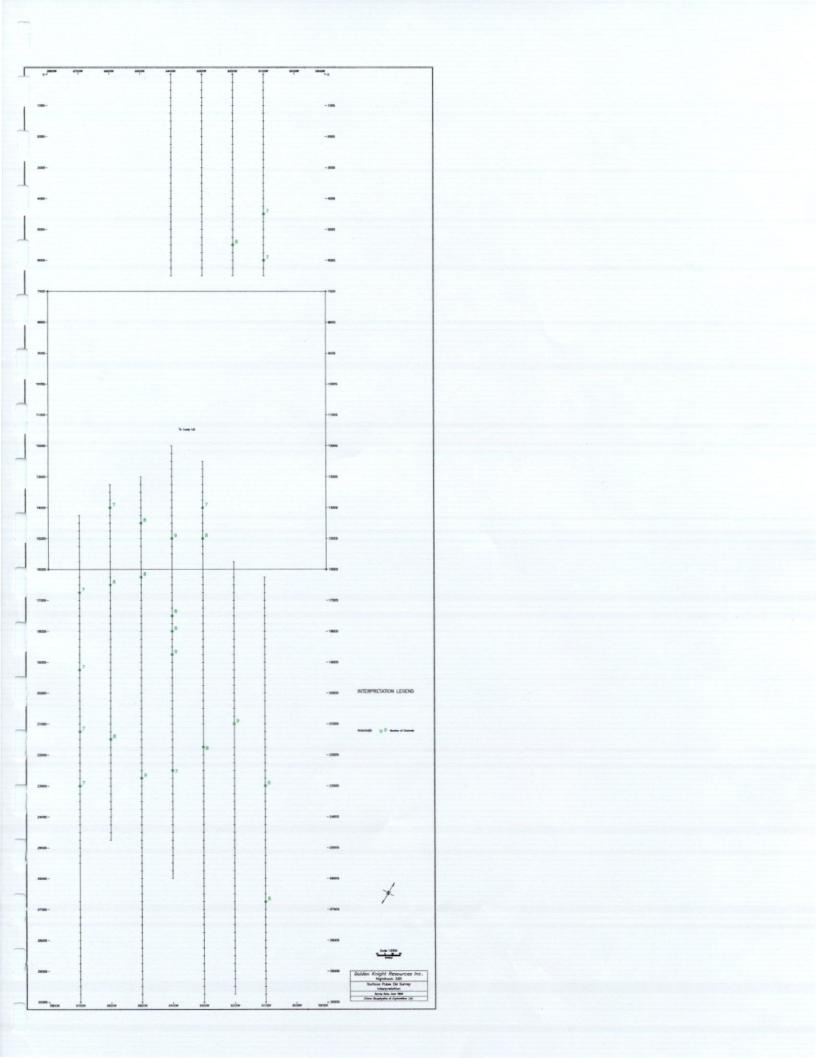


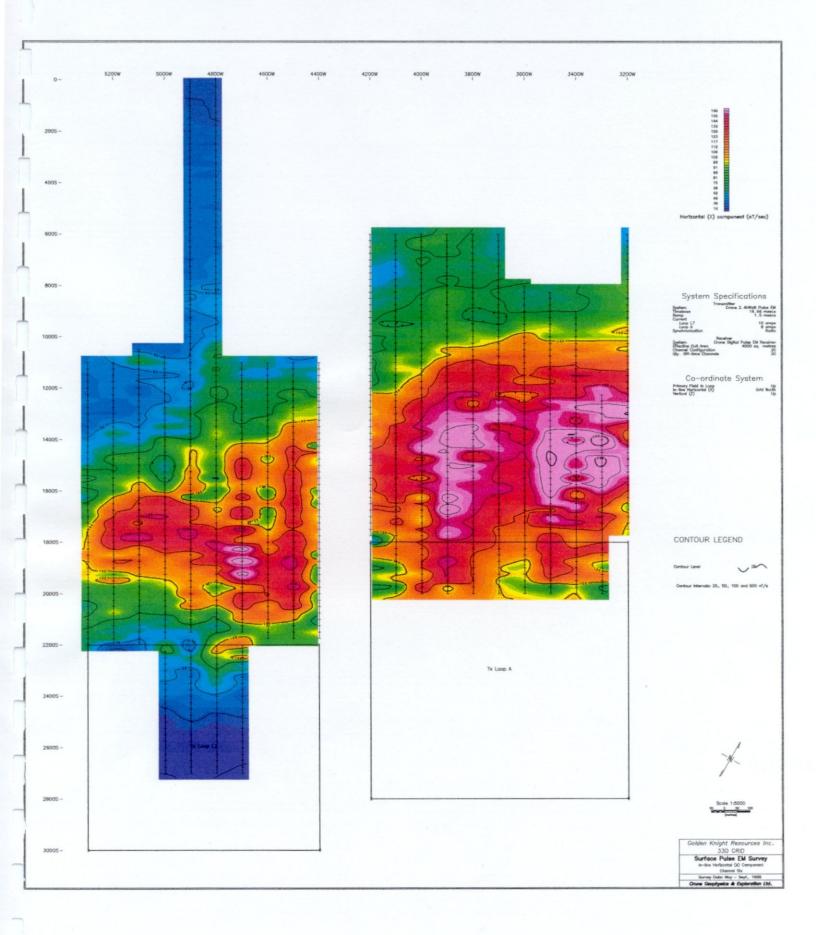


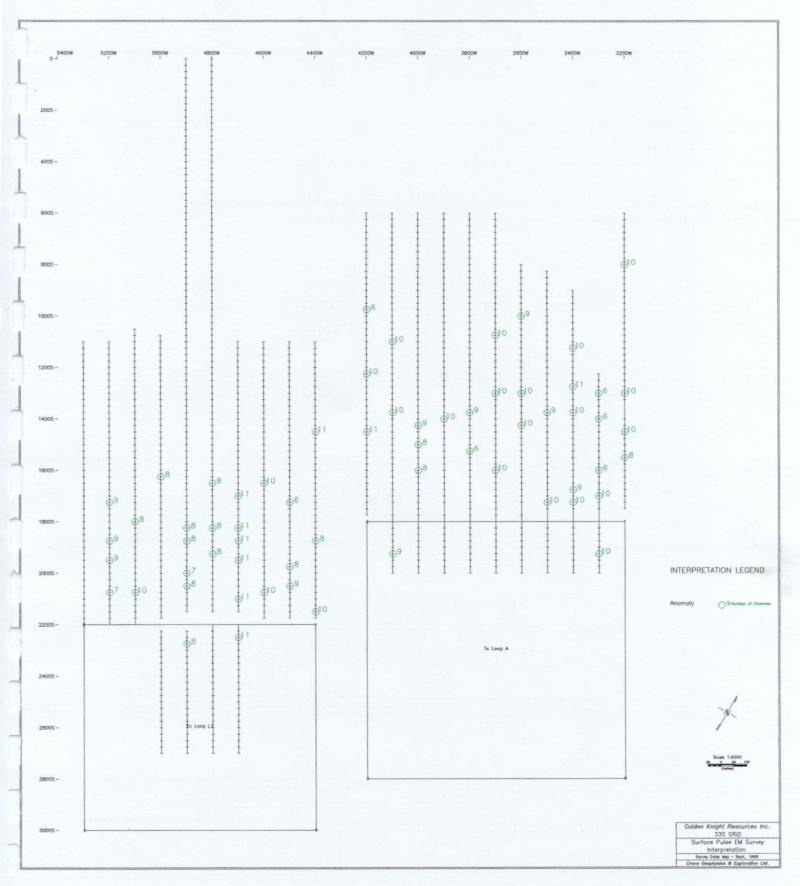












APPENDIX B:

PULSE EM DATA PROFILES

Geophysical Survey Report 12

Client	: Golden Knight Resources	IncHole	: SK9709
Grid	: 330	Tx Loop	: L1
Date	: Feb 6, 1998	File name	: SK09Z.PEM

Z COMPONENT dBz/dt nanoTesla/sec - 20 channels and PP Scale: 1:2500 -105 -104 -103 -102 +102 10 +103 +104 +10⁵ -10 60m 70m 80m 90m 100m 110m 120m 130m 140m 150m 10 160m 170m 180m 190m 200m 1)0 210m 11 220m 230m 240m 250m 110 260m 270m 280m ·290m 300m 110 310m - 320m

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Client	:	Golden	Knight	Resources	IncHole	:	SK9709
Grid	:	330			Tx Loop	:	L1
Date	:	Feb 7,	1998		File name	:	SK09XYT.PEM

Data Corrected for Probe Rotation using Orientation Tool #15 X COMPONENT dBx/dt nanoTesla/sec - 20 channels and PP

Scale: 1:2500

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Date	: Feb 7, 1998 File nam	ie :	SK09XYT.PEM

Data Corrected for Probe Rotation using Orientation Tool #15 Y COMPONENT dBy/dt nanoTesla/sec - 20 channels and PP Scale: 1:2500

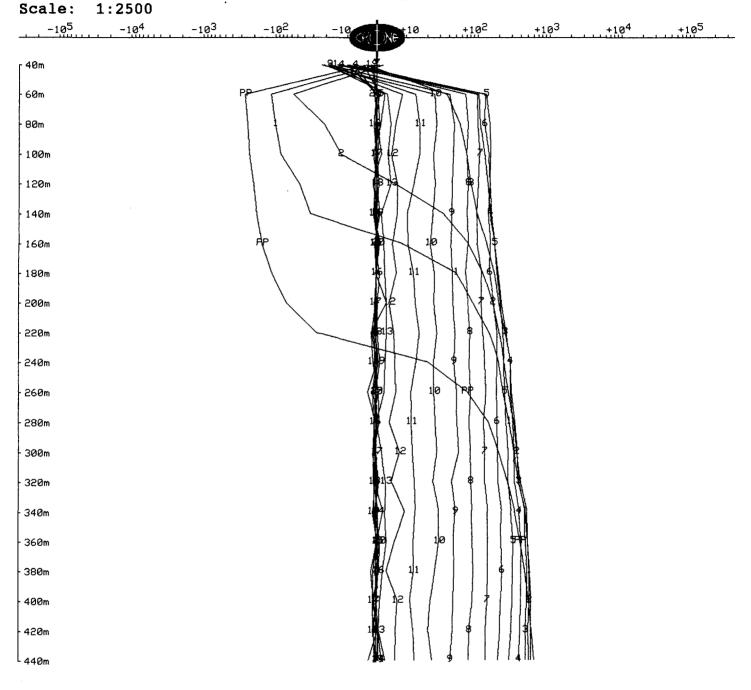
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Client	:	Golden Knight Resoources	InHole	:	SK9710
Grid	:	330 Grid	Tx Loop	:	A
Date	:	September 13, 1998	File name	:	SK9710XT.PEM

Data Corrected for Probe Rotation using Orientation Tool #20 X COMPONENT dBx/dt nanoTesla/sec - 20 channels and PP



Client	:	Golden Knight Resoourc	es	InHole	:	SK9710
Grid	:	330 Grid		Tx Loop	:	A
Date	:	September 13, 1998		File name	:	SK9710XT.PEM

Data Corrected for Probe Rotation using Orientation Tool #20 Y COMPONENT dBy/dt nanoTesla/sec - 20 channels and PP 1:2500

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Client	: Golden Knight Resources	IncHole	: SK9716
Grid	: 330	Tx Loop	: L1
Date	: Feb 12, 1998	File name	: SK16XYT.PEM

Data Corrected for Probe Rotation using Orientation Tool #15 X COMPONENT dBx/dt nanoTesla/sec - 20 channels and PP

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290m	

Client	:	Golden Knight Resources	IncHole	:	SK9716
Grid	:	330	Tx Loop	:	L1
Date	:	Feb 12, 1998	File name	:	SK16XYT.PEM

Data Corrected for Probe Rotation using Orientation Tool #15 Y COMPONENT dBy/dt nanoTesla/sec - 20 channels and PP Scale: 1:2500

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- 270m		PP						
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Grid : 330 Tx Loop : L1 Date : Feb 7, 1998 File name : SK19Z.P	EM
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Scale: 1:2500	~
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-183 -183 -183 -183 +185 +185 +185 +185 90m 100m 100m 100m 100m 100m 100m 100m 120m 100m 100m 100m 100m 100m 100m 100m 130m 142m 100m 100m 100m 100m 100m 100m 130m 122 100m 100m 100m 100m 100m 100m 130m 122 100m 100m 100m 100m 100m 100m 130m 100m 100m 100m 100m 100m 100m 100m 100m 100m 100m 100m 100m 100m 100m 100m 220m 220m 100m 100m 100m 100m 100m 100m 220m 220m 100m 100m 100m 100m 100m 100m 320m 320m 100m 100m 100m 100m 100m 100m 320m 320m 100m	

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Client	:	Golden	Knight	Resources	IncHole	:	SK9719
Grid	:	330			Tx Loop	:	L1
Date	:	Feb 6,	1998		File name	:	SK19XYT.PEM

Data Corrected for Probe Rotation using Orientation Tool #15 X COMPONENT dBx/dt nanoTesla/sec - 20 channels and PP Scale: 1:2500

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Client	: Golden Knight Resources IncHole	: SK9719
Grid	: 330 Tx Loo	op : L1
Date	: Feb 6, 1998 File n	name : SK19XYT.PEM

Data Corrected for Probe Rotation using Orientation Tool #15 Y COMPONENT dBy/dt nanoTesla/sec - 20 channels and PP

Scale: 1:2500

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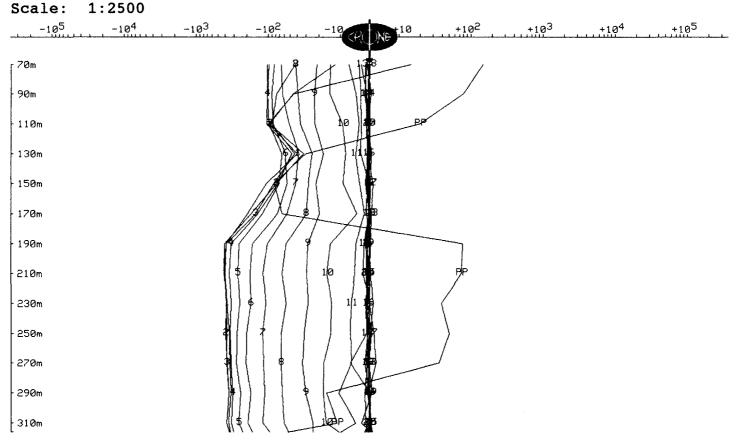
	Client Grid Date	: 330	lden Knigh) Grid g 28, 1998	it Resource	Tx L	oop : A	K9720 720 Z .PEM	
Scale			ENT dBz/dt	nanoTesla	/sec - 20	channels	and PP	
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Client	: Golden Knight Resources	LtdHole	:	SK9720
Grid	: 330 Grid	Tx Loop	:	A
Date	: Aug 28, 1998	File name	:	9720XYT.PEM

Data Corrected for Probe Rotation using using Orientation Tool #20 Y COMPONENT dBy/dt nanoTesla/sec - 20 channels and PP

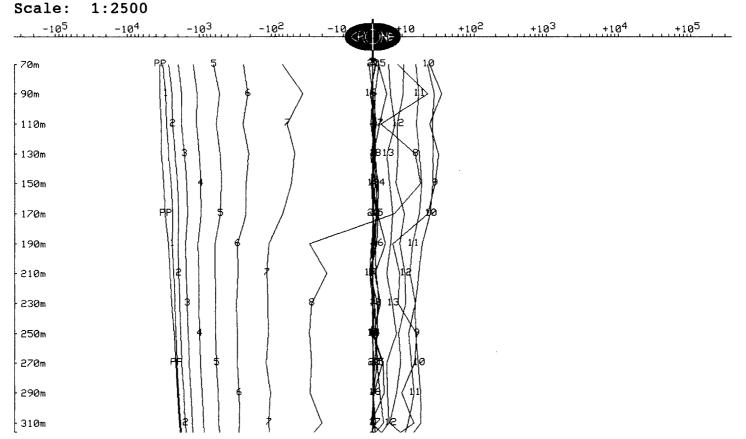


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Client	:	Golden Knight Resources	LtdHole	:	SK9720
Grid	:	330 Grid	Tx Loop	:	A
Date	:	Aug 28, 1998	File name	:	9720XYT.PEM

Data Corrected for Probe Rotation using using Orientation Tool #20 X COMPONENT dBx/dt nanoTesla/sec - 20 channels and PP



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بريبان ومراجعتها ومعروفا المعهد وهدار فال

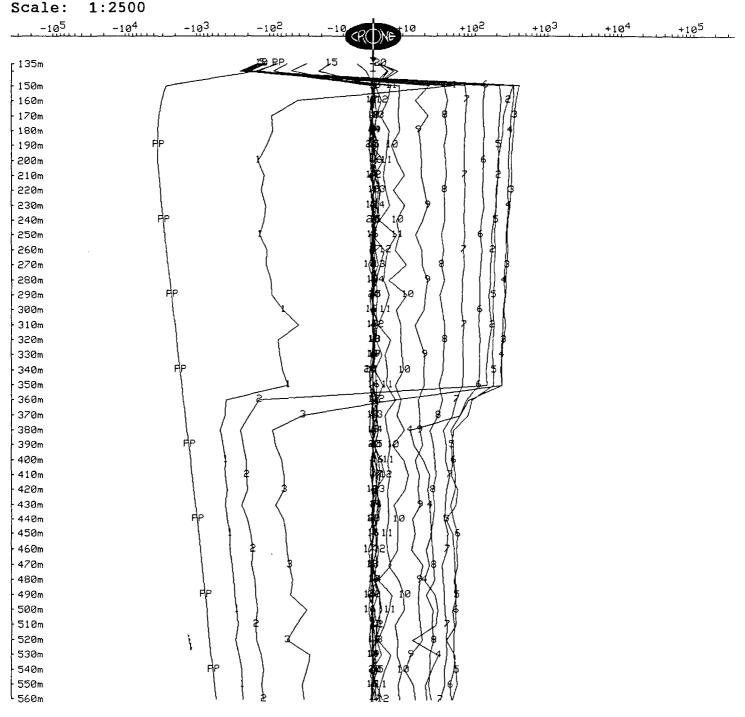
Client	:	Golden Knight Resources	IncHole	:	SK9824
Grid	:	330	Tx Loop	:	L1
Date	:	Mar 18, 1998	File name	:	SK9824Z.PEM

Scale: 1:2500 -10 ² -10 ⁴ -10 ² -10 ² +10 ² +10 ³ +10 ⁴ +10 ⁵ 150m 10 +10 ² +10 ³ +10 ⁴ +10 ⁵ 150m 10 10 10 10 ² +10 ³ +10 ⁴ 100m 100m 10 10 10 10 10 10 200m 200m 200m 200m 200m 200m 10 <		Z COMPONENT	dBz/dt nanoTesla,	/sec - 20	channels and PP
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160m 160m 10 5 1 1 190m 32 10 5 1 1 190m 32 10 5 1 1 190m 32 10 5 1 1 100m 32 10 5 1 1 200m 220m 30 5 1 1 220m 30 32 10 5 1 240m 32 10 5 1 1 290m 32 10 5 1 1 340m 32 1	-105	-104 -103	-10 ² -10 RONE	10 +10 ²	+10 ³ +10 ⁴ +10 ⁵
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Client	:	Golden Knight Resc	urces IncHole	:	SK9824
Grid	:	330	Tx Loop	:	L1
Date	:	Mar 17, 1998	File name	:	SK24XYT.PEM

Data Corrected for Probe Rotation using Orientation Tool #15 X COMPONENT dBx/dt nanoTesla/sec - 20 channels and PP e: 1:2500



Client	: Golden Knight Resources 1	[ncHole :	: SK9824
Grid	: 330	Tx Loop :	: L1
Date	: Mar 17, 1998	File name :	: SK24XYT.PEM

Data Corrected for Probe Rotation using Orientation Tool #15 Y COMPONENT dBy/dt nanoTesla/sec - 20 channels and PP Scale: 1:2500

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- 230m - 240m									
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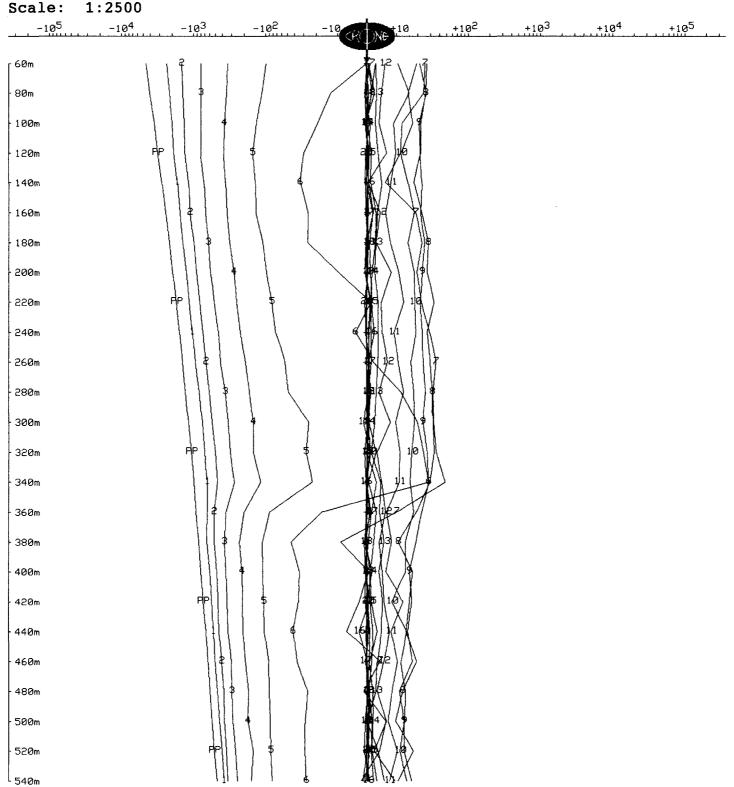
Grid	: Golden Knight Reso : 330 Grid : Aug 23, 1998	urces IncHole : SK9824 Tx Loop : A File name : 9824Z.PEM
	MPONENT dBz/dt nanoT	esla/sec - 20 channels and PP
Scale: 1:2500		
-105 -104	-10^3 -10^2 -10	$(10^{+10})^{+10^2}$ $(10^{+10^3})^{+10^4}$ $(10^{+10^5})^{+10^5}$
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- 220m		$145 \ 122 $
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- 260m		
- 270m		₩7)№2 / / / / / / / / / / / / / / / / /
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- 380m		
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420m		
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470m		
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- 500m		¶₽∮)
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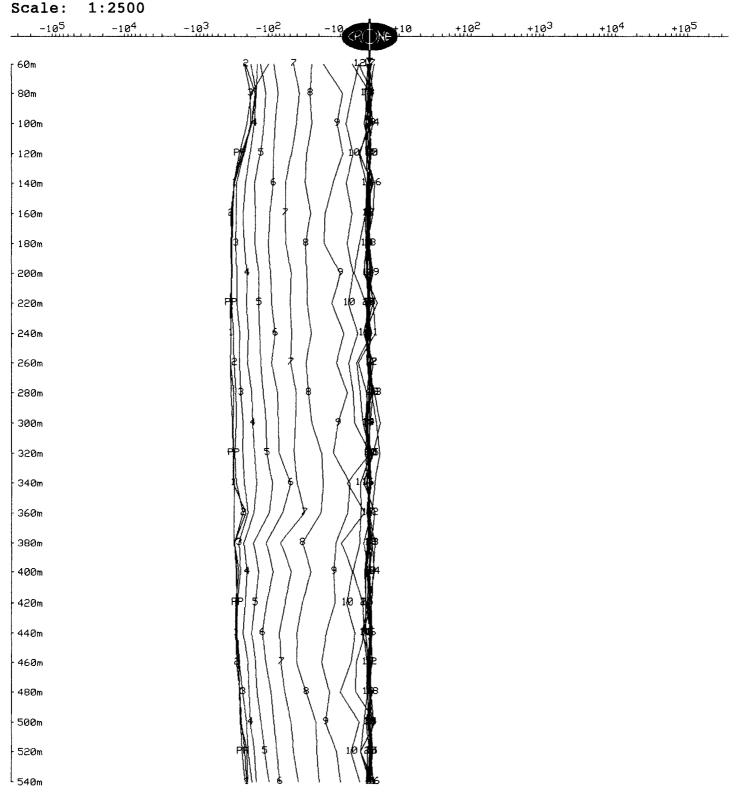
Client	:	Golden Knight Resources	IncHole	:	SK9824
Grid	:	330 Grid	Tx Loop	:	A
Date	:	Aug 23, 1998	File name	:	9824XYT.PEM

Data Corrected for Probe Rotation using Orientation Tool #20 X COMPONENT dBx/dt nanoTesla/sec - 20 channels and PP



Client	:	Golden Knight Resources	IncHole	:	SK9824
Grid	:	330 Grid	Tx Loop	:	A
Date	:	Aug 23, 1998	File name	:	9824XYT.PEM

Data Corrected for Probe Rotation using Orientation Tool #20 Y COMPONENT dBy/dt nanoTesla/sec - 20 channels and PP



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Client	: Golden Knight Resources	Line : L6100W	
Grid	: Nighthawk 330	Tx Loop : L6	
Date	: May 26, 1998	File name : L6100WN.PEM	

X Points South

Data Scaled by Factor of 1.00 VERTICAL COMPONENT dBz/dt nanoTesla/sec - 20 channels and PP

Scale: 1:5000

-10 ⁵ -10 ⁴	-10^3 -10^2 -10^2 -10^2 $+10^3$ $+10^4$ $+10^5$
0005	
- 255	
- 50S	A tet the < < < AP
759	
- 100S	
1258	
- 150S	
1755	s/ (Jo / the) PP
2005	
- 2255	
250S	
- 2758	
3005	AP AP
- 3255	1 + 1 + 1 + 1 + 1 + 1 + 1 + 1 + 1 + 1 +
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3759	
400S	
4255	
450S	
4758	
- 500S	
- 525S	
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6005	
6255	APT TT & TT T
650S	

Client	: Golden Knight Resources	Line : L6100W
Grid	: Nighthawk 330	Tx Loop : L6
Date	: May 26, 1998	File name : L6100WN.PEM

X Points South

Data Scaled by Factor of 1.00 IN-LINE HORIZONTAL COMPONENT dBx/dt nanoTesla/sec - 20 channels and PP Scale: 1:5000

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Client	: Golden Knight Resources	Line	:	L6100W
Grid	: Nighthawk 330	Tx Loop	:	L6
Date	: May 28, 1998	File name	:	L6100WS.PEM

X Points North Data Scaled by Factor of 1.00 IN-LINE HORIZONTAL COMPONENT dBx/dt nanoTesla/sec - 20 channels and PP

-105	-104	-10 ³	-102	-10 CR(1)NE+10	+102	+103	+104	+105
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Gr	id :	Golden Knight Nighthawk 330 May 28, 1998	Resources	Tx Loop	
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- 1925S - 1950S					
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25005					
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Client	: Golden Knight Resources	Line : L6200W	
Grid	: Nighthawk 330	Tx Loop : L6	
Date	: May 26, 1998	File name : L6200WN.PEM	

X Points South

Data Scaled by Factor of 1.00 VERTICAL COMPONENT dBz/dt nanoTesla/sec - 20 channels and PP

Scale: 1:5000

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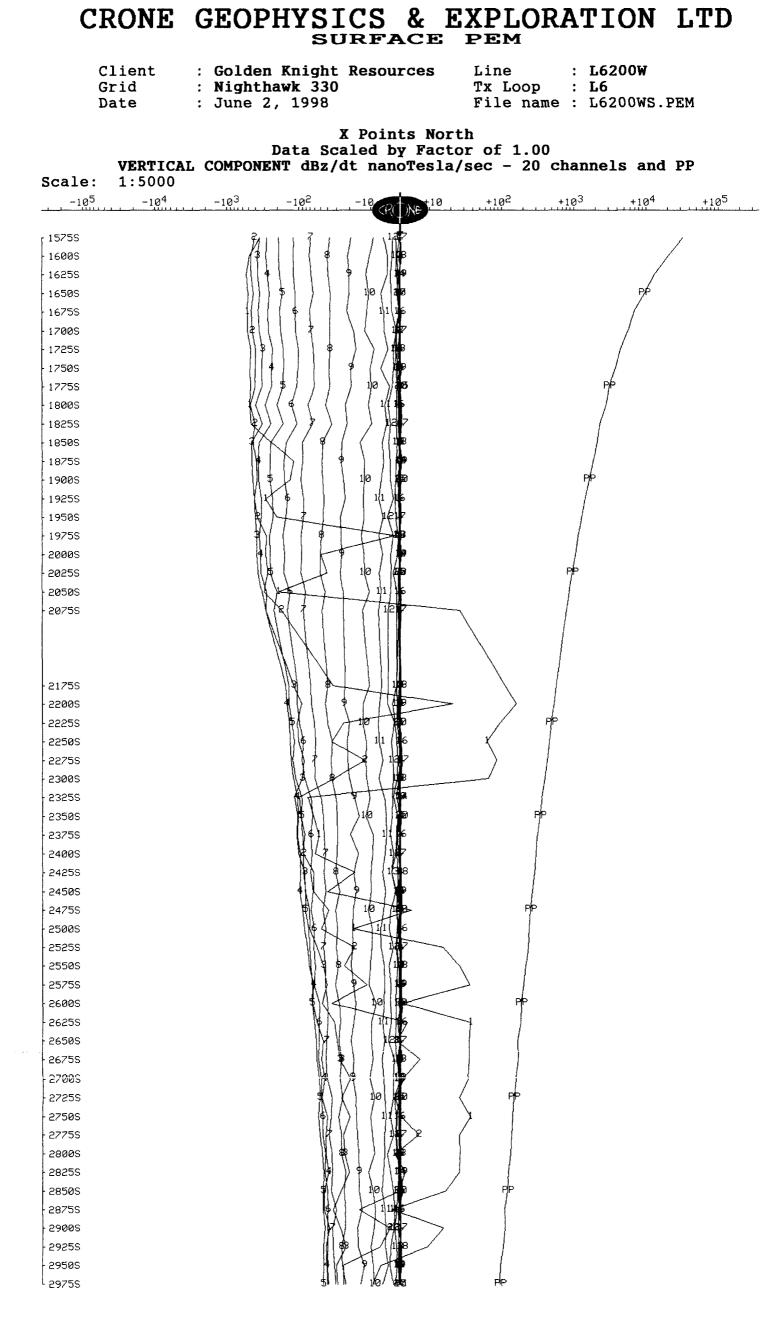
Client	: Golden Knight Resources	Line : L6200W	
Grid	: Nighthawk 330	Tx Loop : L6	
Date	: May 26, 1998	File name : L6200WN.PEM	

X Points South

Data Scaled by Factor of 1.00 IN-LINE HORIZONTAL COMPONENT dBx/dt nanoTesla/sec - 20 channels and PP Scale: 1:5000

scare.	1.2000								
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- 450S									
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- 500S				1 1 1		$\langle \chi \langle \langle \cdot \rangle \rangle$			
- 5258									
- 5505					$(\langle \langle \langle \rangle \rangle)$				
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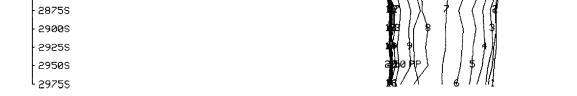




Client	: Golden Knight Resources	Line : L6200W
Grid	: Nighthawk 330	Tx Loop : L6
Date	: June 2, 1998	File name : L6200WS.PEM

X Points North

Data Scaled by Factor of 1.00 IN-LINE HORIZONTAL COMPONENT dBx/dt nanoTesla/sec - 20 channels and PP Scale: 1:5000 +105 -105 -104 -103 -102 +102 +103 +104 -10 10 <20)Ne-L..... 1575s آ 1600S 16255 165ØS 1675S 1700S 1725S 1750S · 1775S 1800S 18255 3 18505 B 18755 19005 19255 1950S 1975S 20005 20255 2050S - 20755 21755 - 2200S 22255 225ØS 22755 23005 23255 23505 23755 2400S 24255 2450S 24755 - 2500S 25255 2550S · 2575S 26005 26255 26505 26755 2700S 27255 275ØS 27755



2800S 2825S 2850S

Client	: Golden Knight Resources	Line : L6300W
Grid	: Nighthawk 330	Tx Loop : L6
Date	: May 26, 1998	File name : L6300WN.PEM

X Points South

Data Scaled by Factor of 1.00 VERTICAL COMPONENT dBz/dt nanoTesla/sec - 20 channels and PP

Scale: 1:5000

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475S	\mathcal{H}
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- 5505	
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6005	
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^L 650S	

Client	: Golden Knight Resources	Line : L6300W
Grid	: Nighthawk 330	Tx Loop : L6
Date	: May 26, 1998	File name : L6300WN.PEM

X Points South

Data Scaled by Factor of 1.00

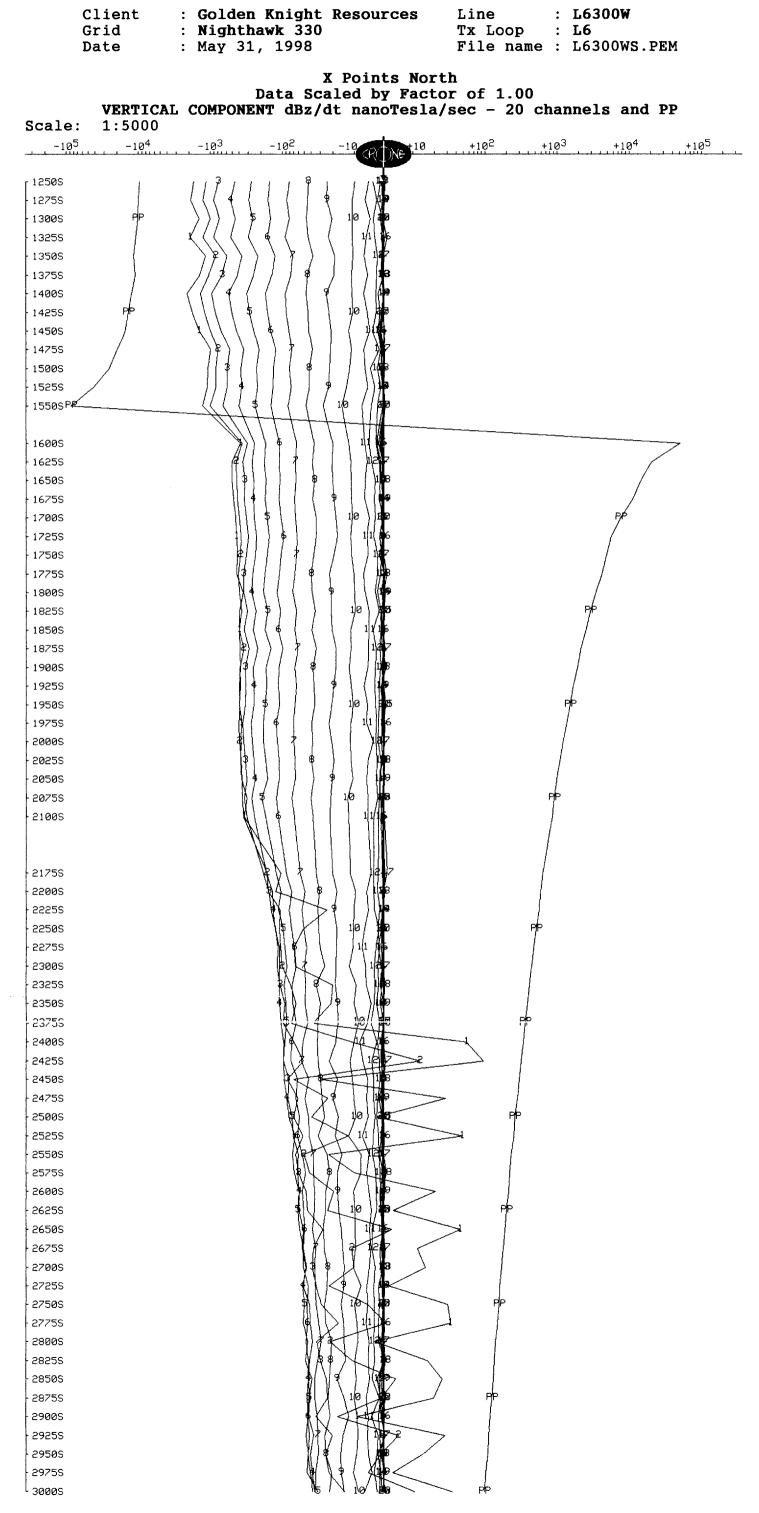
IN-LINE HORIZONTAL COMPONENT dBx/dt nanoTesla/sec - 20 channels and PP Scale: 1:5000

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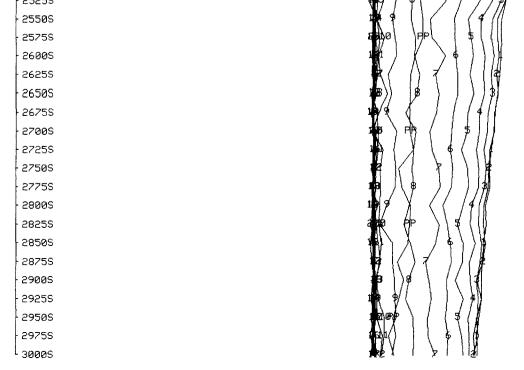
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Client	: Golden Knight Resources	Line : L6300W
Grid	: Nighthawk 330	Tx Loop : L6
Date	: May 31, 1998	File name : L6300WS.PEM

X Points North Data Scaled by Factor of 1.00 IN-LINE HORIZONTAL COMPONENT dBx/dt nanoTesla/sec - 20 channels and PP Scale: 1:5000 N6⁺¹⁰ +10² +10³ +10⁴ +10⁵ -105 -104 -103 -102 -10 (RI 12505 PP 12755 1300S 13258 13505 13755 14005 14255 145ØS 1475S 15005 15258 155ØS 1600S 16255 ΡP 165ØS 1675S 17005 17255 1750S 1775S 18005 18255 185ØS 1875S 1900S 19255 19**50**S 19755 - 2000S 20255 20505 20755 -2100S - 21755 2200S 22255 22505 22755 23005 23255 23505 23755 2400S - 2425S - 2450S 24**7**5S 2500S 25255



Client	: Golden Knight Resources	Line : L(6400W
Grid	: Nighthawk 330	Tx Loop : Lo	5
Date	: May 26, 1998	File name : L(5400WN.PEM

X Points South

Data Scaled by Factor of 1.00 VERTICAL COMPONENT dBz/dt nanoTesla/sec - 20 channels and PP

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Scale: 1:5000

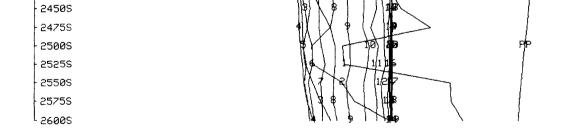
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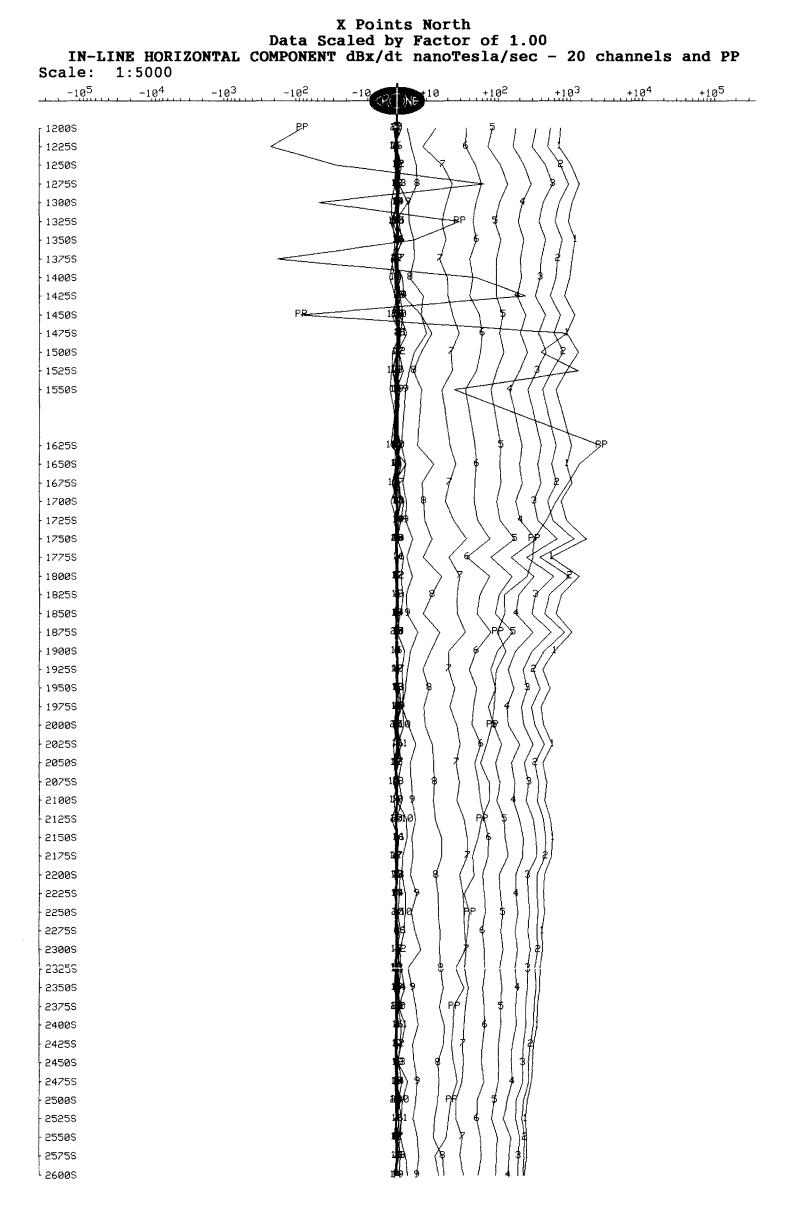
24005

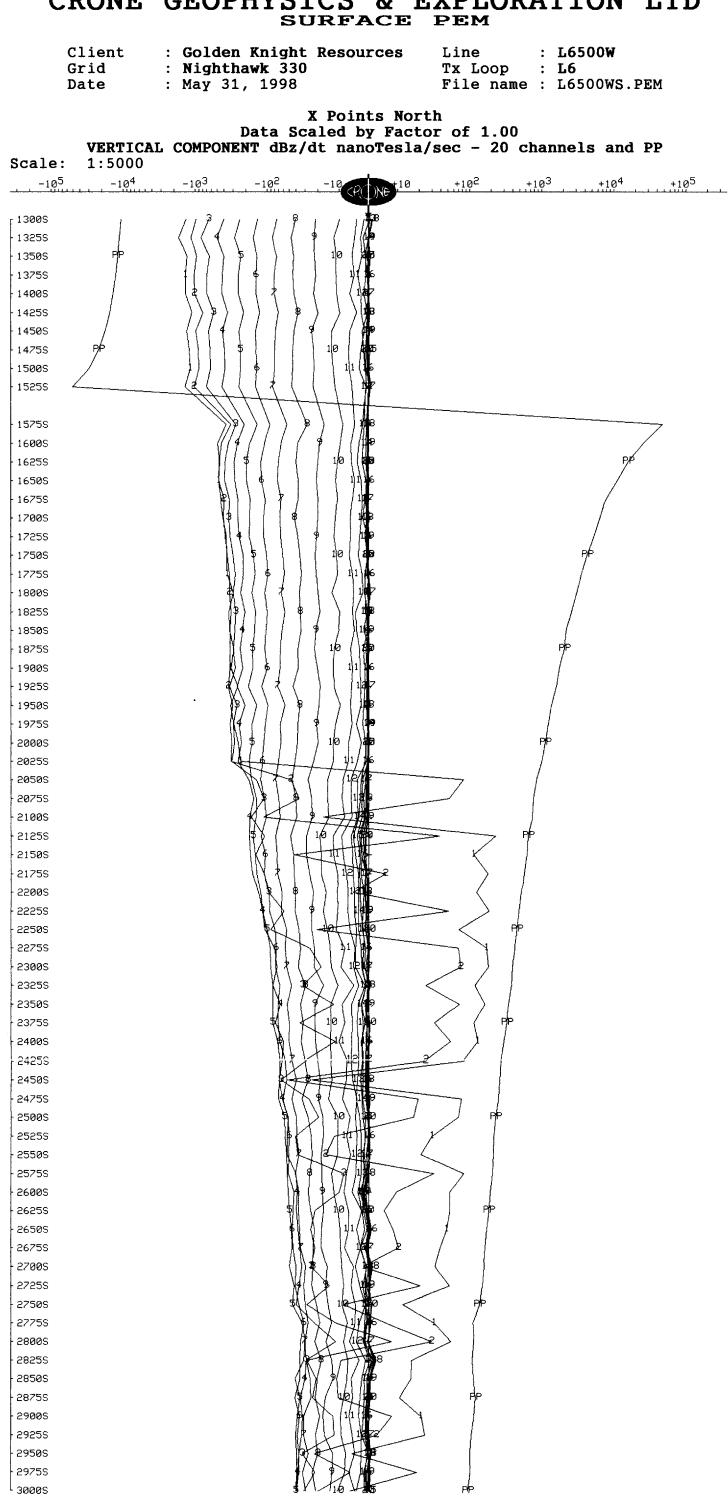
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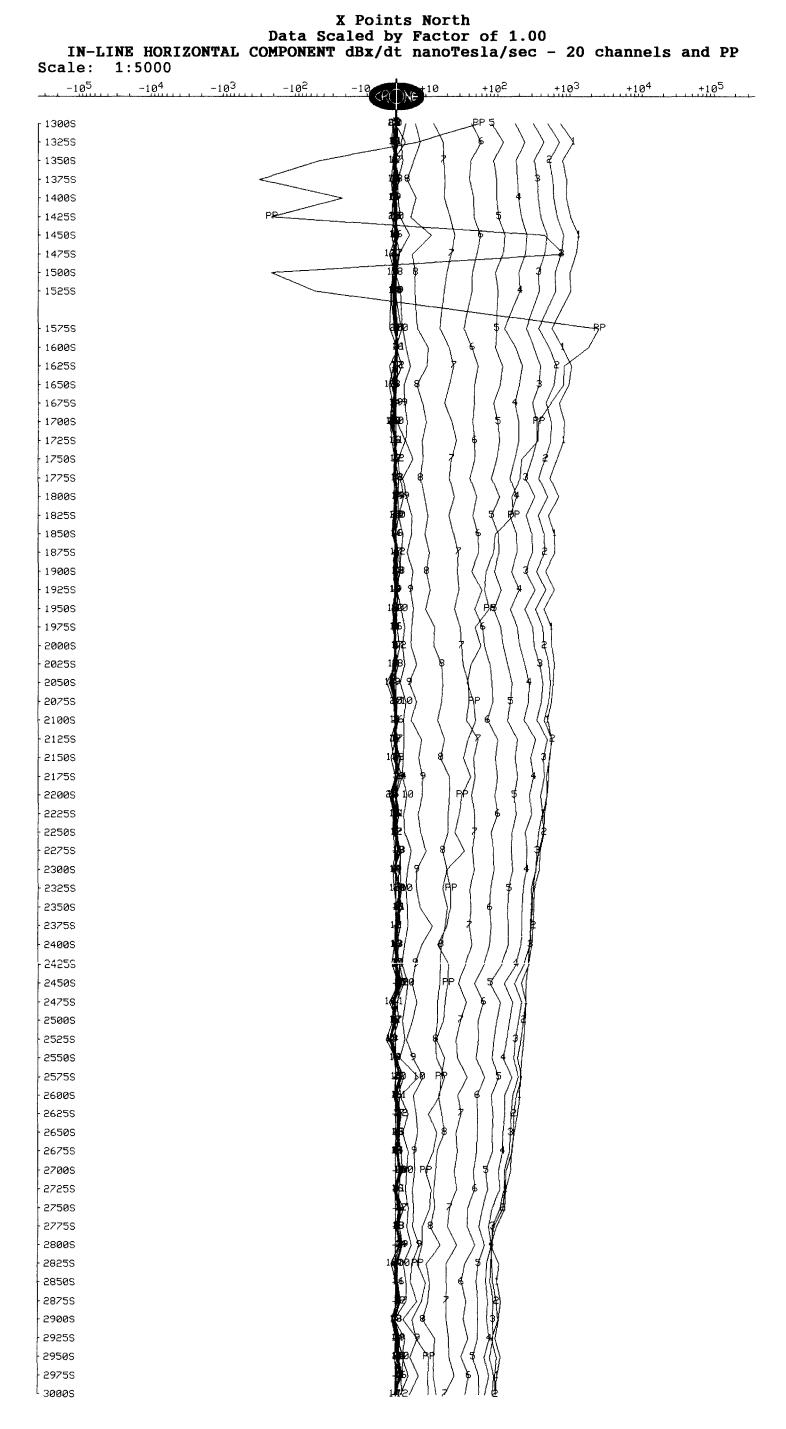
Client	: Golden Knight Resources	Line	:	L6400W
Grid	: Nighthawk 330	Tx Loop	:	L6
Date	: May 31, 1998	File name	:	L6400WS.PEM





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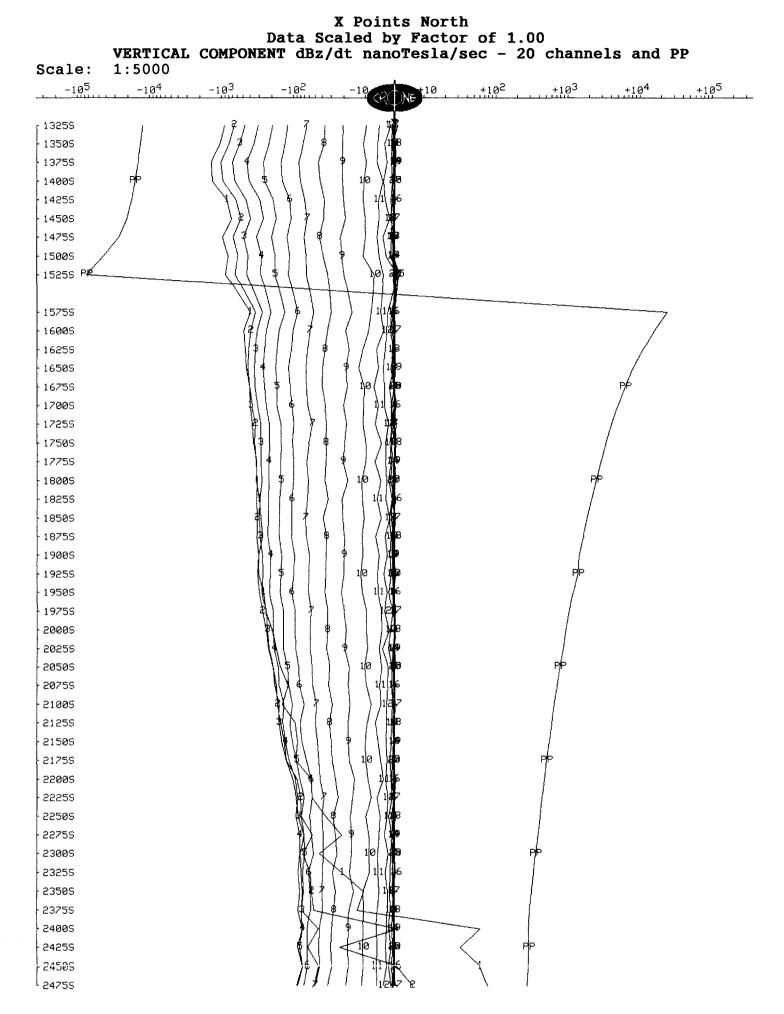
Client	: Golden Knight Resources	Line : L6500W	
Grid	: Nighthawk 330	Tx Loop : L6	
Date	: May 31, 1998	File name : L6500WS.PEM	



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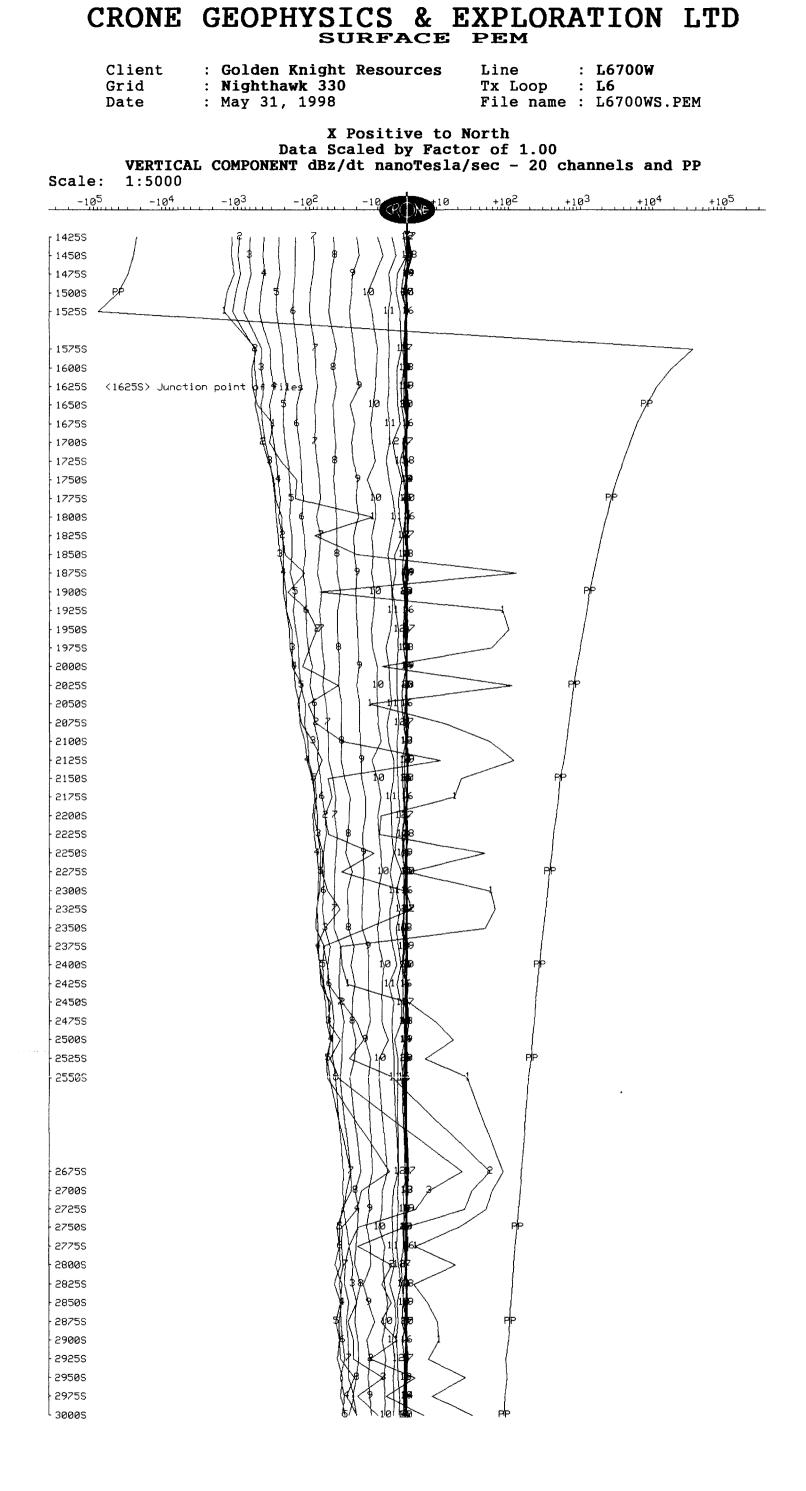
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Client	: Golden Knight Resources	Line	:	L6600W
Grid	: Nighthawk 330	Tx Loop	:	L6
Date	: May 31, 1998	File name	:	L6600WS.PEM



Client	: Golden Knight Resources	Line	:	L6600W
Grid	: Nighthawk 330	Tx Loop	:	L6
Date	: May 31, 1998	File name	:	L6600WS.PEM

Scale: $1:5000$ -10^5 -10^4)	-10 ² -10	dt nanoTesla/sec - 20 channels and PP $+10^{2}$ $+10^{3}$ $+10^{4}$ $+10^{5}$
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Grid : Nig	den Knight Re: hthawk 330 31, 1998	sources	Tx Loop	: L6700W : L6 : L6700WS.PEM	I
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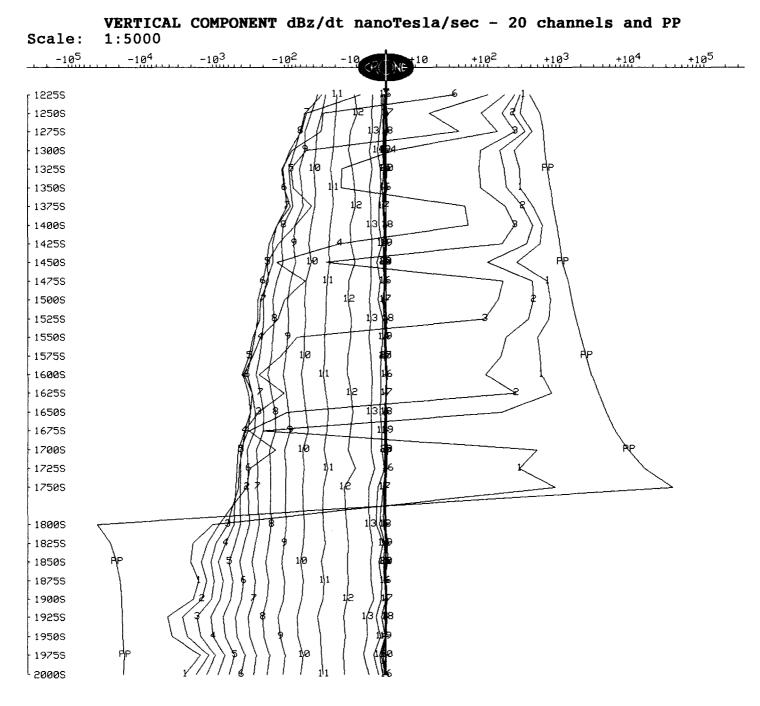


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C]	RONE	GEOPHYSICS & EXPLORATION LTD
(: CROSS LAKE MINERALS LTD. Line : 3200W : 330 Grid Tx Loop : A : September 13, 1998 File name : L32W.PEM
	VERTICA	L COMPONENT dBz/dt nanoTesla/sec - 20 channels and PP
Scale:		
-105	-104	-10^3 -10^2 -10 $+10^2$ $+10^3$ $+10^4$ $+10^5$
r 600S		1.0 × 1 × 1
6255		
- 6505		
6755		
- 700S		
7255		
- 750S		
7755		
- 800S		
8255		
- 850S		
- 8755		
- 900S		
9255		
- 950S - 975S		
10005		
10255		
10505		
10755		
-11005		
11255		$\left(\begin{array}{c} \left $
- 1150S		$\left(\begin{array}{c} 1 \\ 1 \end{array} \right) \left(\begin{array}{c} 1 \end{array} \right) \left(\begin{array}{c} 1 \\ 1 \end{array} \right) \left(\begin{array}{c} 1 \end{array} \right) \left($
- 11755		
1200S		
12255		
- 12505		
- 12755		
13005		
- 13255		
- 1400S		
14255		
- 1450S		
14755		
- 1500S		
15255		
- 1550S		
- 15755		
- 1600S		
16255		
- 1650S - 1675S		
16/55		
17255		
17235 1750S		
1, 000		

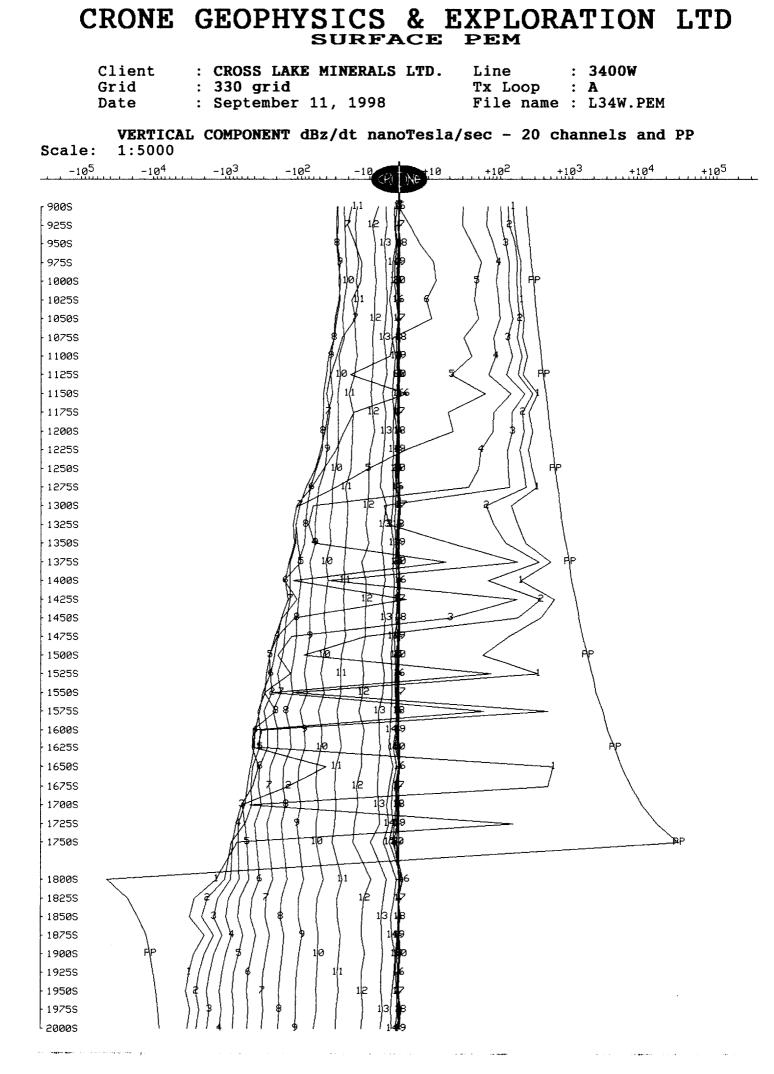
CI	RONE	GEOPI	HYSI	CS &	EXPLO	RATION	LTD
G	rid	: CROSS L : 330 Gri : Septemb	.d		Tx Loop	: 3200W : A le : L32W.PEM	
		ONTAL COM	PONENT	dBx/dt na	noTesla/sec	- 20 channels	and PP
Scale: -10 ⁵	1:5000 	-103	-102	-10 (P) NE+1	0 +10 ²	+10 ³ +10 ⁴	+105
r 600S					1,0, 1,5		
6255							
- 65ØS				1/12			
6755				🖌 (🖌	} \$ 1		
- 700S							
- 7255				and the (10		
- 750S							
7755							
- 800S				1 3			
- 8255				14 X }) • •		
- 85ØS					10		
8755							
- 900S				1/2			
9255				# 3/ <			
- 950S				144 ⟨ }	} +		
- 9755				a aa }	* 10)] [
- 1000S							
10255				112))) ? *		
1050S				13			
- 10755							
11005				a ¶{} } (
11255							
1150S				512			
- 11755							
- 1200S - 1225S							
12505							
12755						2	
13005				113		B	
- 13255							
- 14005				₽₩6	10 Pff (((t) ()		
- 1425S				1	<u>\</u>	X	
- 1450S) 🙀	
- 1475S				1 1 63 \ {	() 🖌 ((((34)	
15005				歌)〉) 🕈 🌾 🕴 🚶	* \ \\	
15255					10 HP 5	11	
- 1550S					\[\$	111	
15758] ¥ / / /	[]]]]	
- 16005				¹ 1 ³ /		111	
16255				1	10 / 40/5/	///	
- 1650S							
16755						141	
- 1700S - 1725S					$\backslash / \downarrow 1 \rangle$		
17255					/	///*	
11 300				. . .	-		

Client	: CROSS LAKE MINERALS LTD.	Line	: 3300W
Grid	: 330 grid	Tx Loop	: A
Date	: September 12, 1998	File name	: L33W.PEM

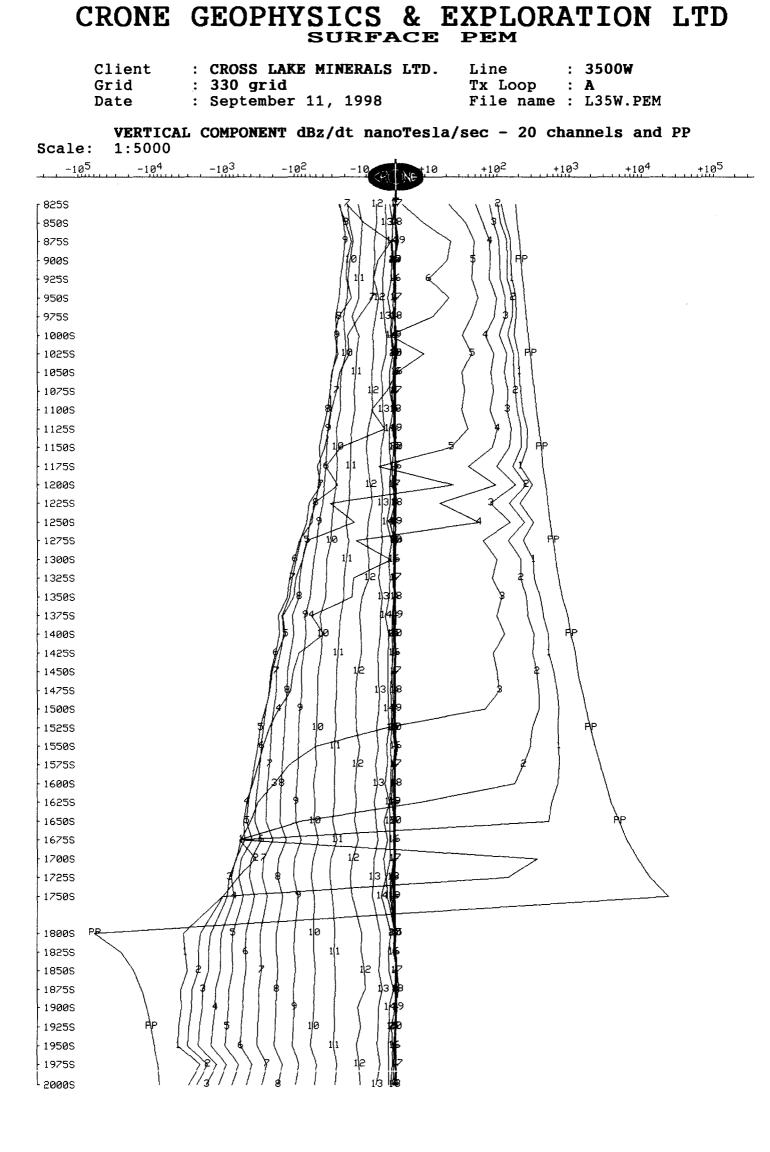


Client	: CROSS LAKE MINERALS LTD.	Line	: 3300W
Grid	: 330 grid	Tx Loop	: A
Date	: September 12, 1998	File name	: L33W.PEM

IN-LINE HORIZONTAL COMPONENT dBx/dt nanoTesla/sec - 20 channels and PP Scale: 1:5000 +1,03 -105 -104 -103 -102 +102 +104 <u>+10</u>5 ~10 10 12 INP r 1225S 1250S 12755 13005 13255 13505 13755 1400S 14255 1450S 10 1475S 1500S 15255 155ØS 15755 16005 110 16255 165ØS 16755 1700S 17255 ila 17505 18005 18255 1850S 10 18755 19005 19255 19505 19755 Pø L 2000S



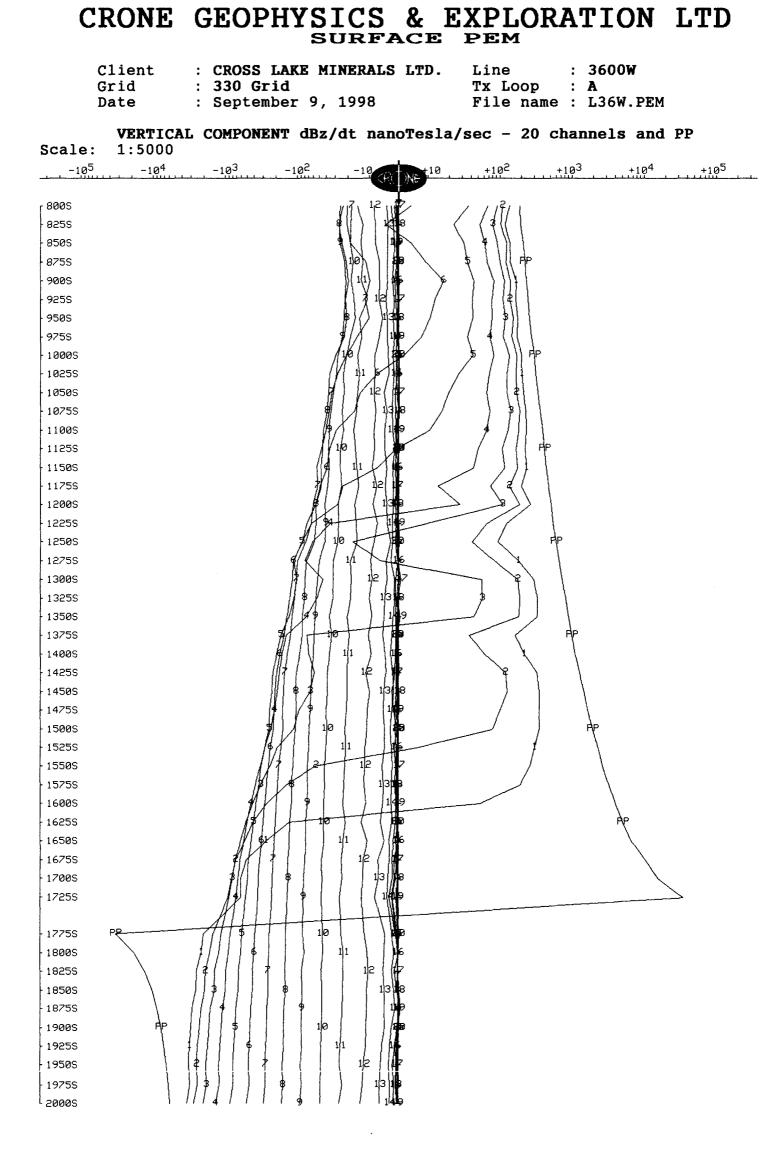
											-	
	Clie: Grid	nt			S LAKE MI grid	NERALS	LTD.	Line		: 340	OW	
	Date				ember 11,	1998		Tx Loc File n		: A : L34	W.PEM	
												_
IN- Scale:	-LINE	HORI 5000	ZON	TAL (COMPONENT	' dBx/dt	nanoTo	esla/se	ec - 2	20 ch	annels	and PP
-10 ⁵		-10 ⁴	_	103	-102	-10	10	+102	+16	3	+104	+105
-10-		-10	·		-10-		NE TO			je L	+10	
r 900S						1	12, 1,	17.6				
9255						-	B3))	8				
9505						1	A(4					
9755						a						
10005						1	//11					
10255						1	Az					
1050s						-			3			
10755						-		∳ ((((
1100S						a	el) pe 10					
11255						-		(((((
1150S						1	ne (\rangle \rangle \rangle	ξ.			
11755						1		8 ((Ne			
12005						-	$\langle \rangle \langle \rangle$	9				
12255						a	16 - 167-	P()()	\${ \			
12505							6 11) / / /	\$ \ \ \			
12755						ŧ	1)2	$\langle \rangle \rangle$	}} ∦			
- 1300S						1	3 3/) \$ []				
13255						1	r r() [({ 4			
13505						a		₽\ \ \	(\$())			
- 13755						4	₽)∮1 X	$\langle \rangle \rangle \rangle$	$\langle \langle $			
- 1400S						4	hpe<	$\chi \langle \tau \rangle$	$\langle \langle $			
14255						1	₩) 8)))))			
- 1450S						1	₱\ / /	\$\	1 1 7 1			
- 1475S						ā			(\$ ({(\			
- 1500S							$\left \right\rangle \right\rangle \left \right\rangle \left \right\rangle$		¢ (((()	(
- 1525S								λ	}	9		
- 1550S						Ĩ			({ 3 {			
- 15755						1		1]]]]	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		
- 1600S						G		FPP ()	7(((ſ		
16255									111			
- 1650S						1				JJ		
16755					\langle	T T				1//		
- 1700S				,	2]		$1 \wedge 1$		$\left \right $		
17258					*	1]	11]		
- 1750S				£				1	P	[[] []		
10000						A A		┕╌┼╌╁╌┼		1		
- 1800S								$ _{1}$	H	772		
- 1825S - 1850S						1				1		
- 18755							5 10	$ \rangle$				
- 18255 - 1900S						G	V), "	IL	711	//		
- 19255								H		J.		
- 19505										Ţ/		
19755							π / J	[[] /	111	//		
20005]				Į		
20003						G	~ 1.0 ++					



CRONE	GEOPHYSICS & EXPLORATION LTD)
0	: CROSS LAKE MINERALS LTD. Line : 3500W : 330 grid	
	ZONTAL COMPONENT dBx/dt nanoTesla/sec - 20 channels and F	P
Scale: 1:5000		
-10 ⁵ -10 ⁴	-10^3 -10^2 -10 -10 -10 -10 -10 -10 -10^3 $+10^4$ $+10^5$	
r 825S	TAPP 10 1 1 TH	
8505		
8755	$\frac{1}{2}$	
- 900S		
9255	1₩4, ⟨> \ 4 \ \ \ 4	
- 9 50 S		
9755		
- 1000S	$\frac{1}{2}$	
10255		
- 1050S		
1075S		
- 1100S	$\frac{1}{2} \left\{ \begin{array}{c} 1 \\ 1 \\ 1 \end{array} \right\} = \left\{ \begin{array}{c} 1 \\ 1 \\ 1 \\ 1 \end{array} \right\}$	
- 1125S		
1150S		
1175S		
12005		
12255		
- 1250S - 1275S		
13005		
13255		
13505		
13755		
14005		
1425\$		
1450S		
14758		
- 1500S		
15258		
- 1550S		
- 1575S		
- 1600S		
- 1625\$		
- 1650S	$\mathfrak{M}^{3} \hspace{0.2cm} \rangle \hspace{0.2cm} \rangle \hspace{0.2cm} \langle \hspace{0.2cm} \hspace{0.2cm} \rangle \hspace{0.2cm} \rangle \hspace{0.2cm} \rangle \hspace{0.2cm} \rangle \hspace{0.2cm} \langle \hspace{0.2cm} \hspace{0.2cm} \rangle \hspace{0.2cm} \rangle \hspace{0.2cm} \rangle \rangle \hspace{0.2cm} \rangle \hspace{0cm} \rangle \hspace{0.2cm} \rangle $	
- 1675S		
1700S		
- 17255		
- 17505		
1800S		
18255		
1850S		
18755		
19005		
19255		
1950S		
19755		
20005		

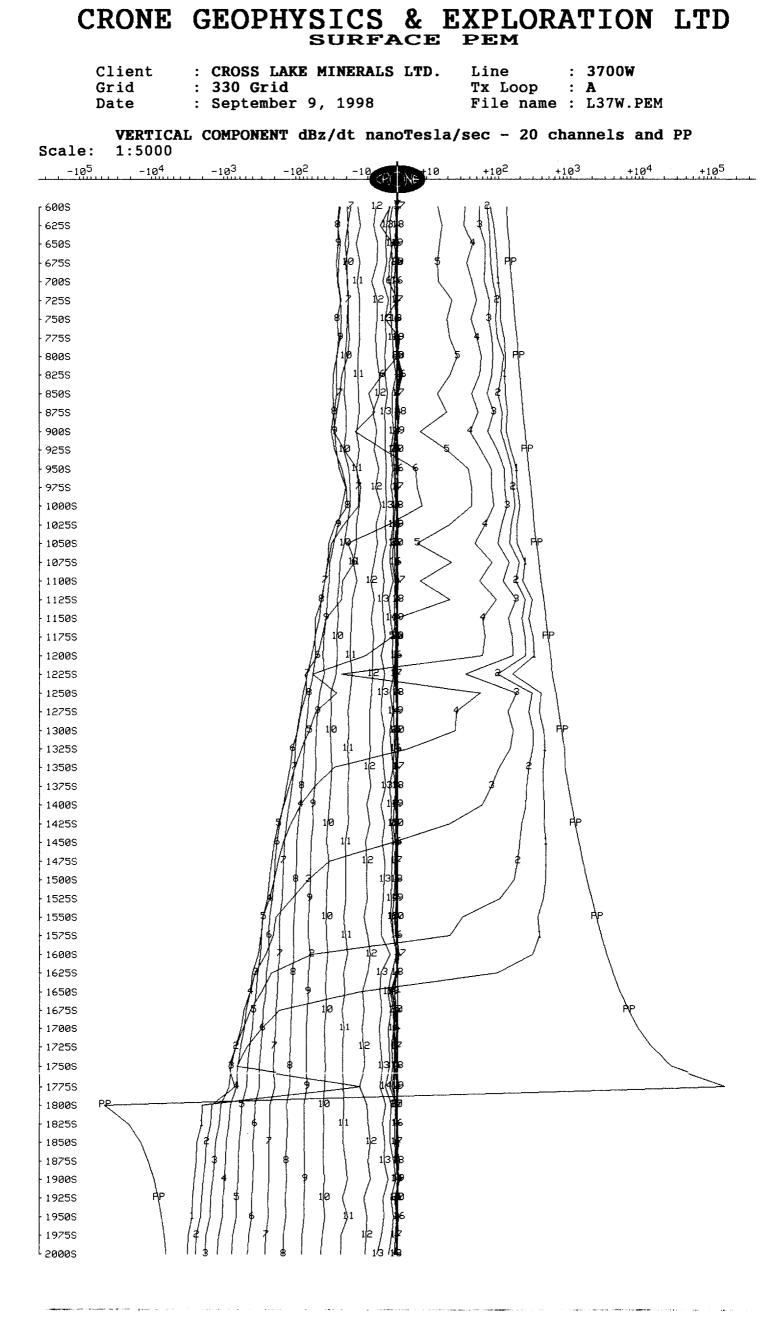
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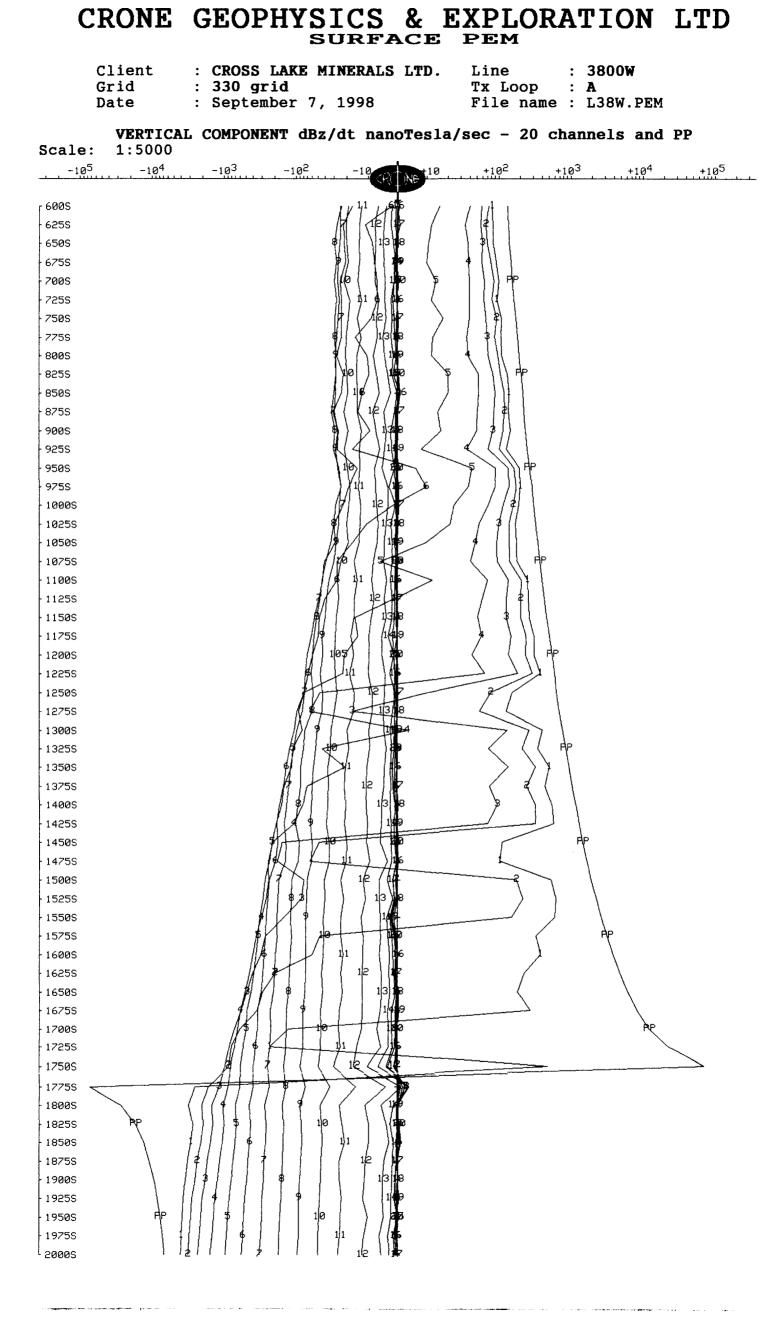


CRONE	GEOPHYSICS & SURFACE	EXPLORATION LTD
	: CROSS LAKE MINERALS LTD . : 330 Grid : September 9, 1998	
	ZONTAL COMPONENT dBx/dt nam	noTesla/sec - 20 channels and PP
	-10^3 -10^2 -10^{-10}	a +10 ² +10 ³ +10 ⁴ +10 ⁵
IN-LINE HORI Scale: 1:5000 -10 ⁵ -10 ⁴ 800S 825S 850S 875S 900S 925S 950S 975S 1000S 925S 975S 1000S 1025S 1050S 1075S 1100S 1125S 1200S 1125S 1200S 1225S 1250S 1200S 1225S 1300S 1325S 1400S 1425S 1400S 1425S 1500S 1575S 1600S 1625S 1600S 1625S 1725S 1800S 1825S 1800S		
- 1850S - 1875S		
19005		
- 1925S		
- 1950S		<u>+</u>] +
19755		
L 2000S	/ //augi 1/1	ччч в i i i η

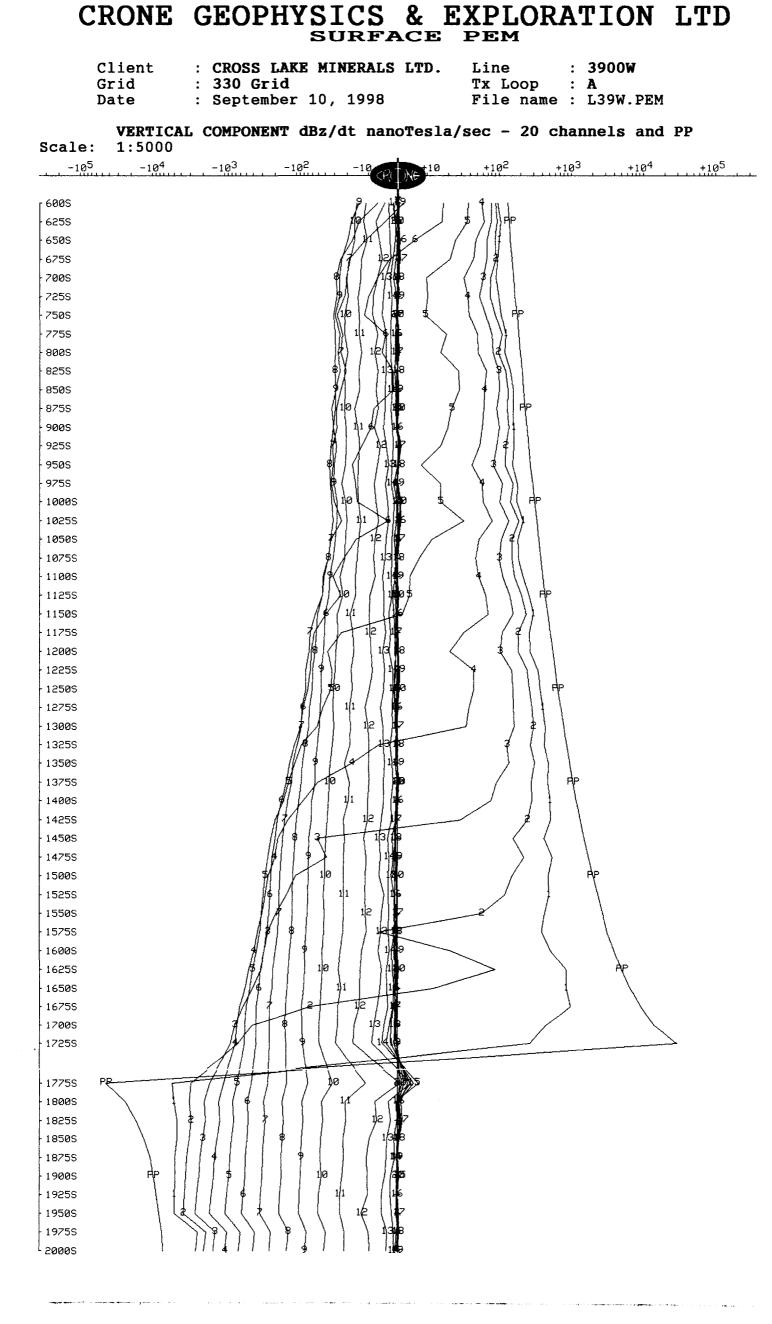
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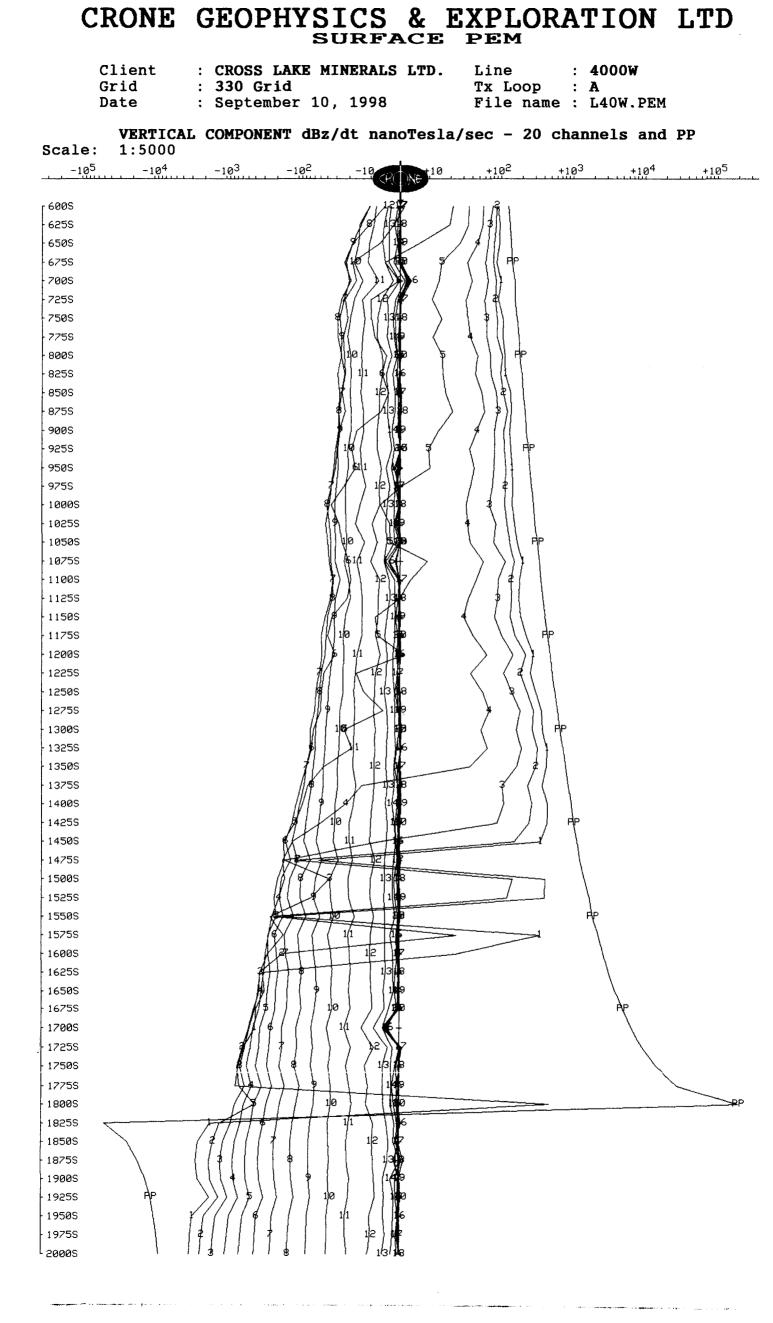
CRONE	GEOPHYSICS & EXPLORATION LTD SURFACE PEM
	: CROSS LAKE MINERALS LTD. Line : 3700W : 330 Grid
IN-LINE HORI Scale: 1:5000	IZONTAL COMPONENT dBx/dt nanoTesla/sec - 20 channels and PP
-10 ⁵ -10 ⁴	-10^3 -10^2 -10 $+10^2$ $+10^3$ $+10^4$ $+10^5$
600S 625S	
- 650S	
- 6755	
- 700S	
- 7255	
- 750S	
- 775S - 800S	
8255	
- 8505	ter to the terms of
8755	
- 900S	
- 925S	
9505	
- 975S - 1000S	
10255	
- 10505	
10755	⊥ ∦A , }
11005	
- 11255	\mathbf{R} $(1 1 1 1 1 1 1 1$
11505	
- 1175S - 1200S	
12255	
12505	
12755	
- 13005	
13255	$\frac{1}{2}$
13505	
1375S 1400S	
14255	
1450S	
1475S	
- 15005	$\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$
- 15255	
15505	
- 1575S - 1600S	
16255	
1650S	
1675\$	
17005	救/) ∮≮/ (↓ \
17255	
17505	
1775S 1800S	
18255	
18505	
- 18755	\mathbf{k}
- 19005	
19255	
- 1950S - 1975S	$AP = \frac{1}{2} \frac{1}{2}$
2000S	
	• •



		st	JRFACE	PEM	ATION	LTD
	Client Grid Date	: CROSS LAKE MI : 330 grid : September 7,			· 7	
IN	I-LINE HORI	ZONTAL COMPONENT	dBx/dt nano1	esla/sec -	20 channels	and PP
Scale	e: 1:5000		-1-			
-10	⁵ -10 ⁴	-10 ³ -10 ²	-10 CR(1)NE+10	+102	+10 ³ +10 ⁴	+10 ⁵
r 600S			4	9 E Jail 4		
6255			PF205/ 10			
6505				} { .		
6755						
700S				\ \$ } }		
- 725S						
- 750S			2 28 0 10			
- 775S						
- 800S			1/12			
8255			133	8		
850S			₩ } { '	₽ \		
8755			ant 1 10)		
- 900S				((•()		
9255				\		
- 950S) *) \ N		
- 975S			11N			
10005			a n BP 10			
10255						
- 10505						
10755						
11005						
1125S 1150S						
11755			\mathbf{n}			
12005						
12255			194/ }			
12505				PR (5 A		
12755			h_1) { { { { { { { { { { { { { { { { { {		
13005						
13255			143 ((
13505))) +		
13755			200 10	P(F) ((5)		
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14255				() (+))))¢	
14505			3		fΛ.	
- 1475S			₩4(< <	* / / / / *		
- 1500S				P\$)) \$`		
- 15258				(118	
15505			1		/ 11	
15755					[*	
16005						
- 1625S - 1650S				PP 5		
16755						
17005						
17255					4]]]	
17505			16	$\left \right = \frac{1}{5}$	1/18/2	
17755					HI	
18005				1 Att	}	
18255			143	(\$	
- 1850S				2///	4	
18755			PP 30 10	' \$		
- 1900S		/			#	
19255		L		\ { }	\$	
1950S				+ +) \$ <i> </i>	
17585						
19755				\$ {] .	• //	



CRONE	GEOPHYSI	CS & E	XPLOR	ATION LTD
Client	: CROSS LAKE MIN	WERALS LTD.	Line	: 3900W
Grid Date	: 330 Grid : September 10,	1998	Tx Loop File name	: A • 1.39W PEM
IN-LINE HORIZ Scale: 1:5000	CONTAL COMPONENT	dBx/dt nano!	[esla/sec -	20 channels and PP
-10 ⁵ -10 ⁴	-10 ³ -10 ²	-10 -10 +10	+10 ² +	10 ³ +10 ⁴ +10 ⁵
r 600S		1813	. 8.3	
6255			↓ T M	
- 650S		2777 10	(())	
6755		$\langle \rangle \rangle^{1}$))))()	
- 7005			(
- 7255		3		
- 750S				
- 775S - 800S				
8255				
- 850S				
· 875S				
9005		10	/ /	
- 925S			{ { <u> </u> €N	
- 950S				
9755				
- 1000S - 1025S		PP 100 10		
10505				
- 10755		the \		
11005		# { \ \		
11255		⊥ <mark>h</mark> t} 〉)	<pre></pre>	
11505		and (Pres	\$	
- 11755			F	
- 1200S - 1225S				
1250S				
12755				
13005				
13255		je)	/	
13505			<	
13755			>9 ∋P(=) 4 ∋P(=) 5	
- 1400S - 1425S				N
1450S			$X \downarrow \downarrow \downarrow \downarrow \downarrow$	
- 14755				3
- 1500S		₩ ()		
15255			AP 5	
1550S				
- 1575S - 1600S		L/e		
16255		1014	\downarrow \downarrow \downarrow \downarrow \downarrow \downarrow	4111
16505		1) ((RP\$	
16755				$\rangle \rangle \rangle \rangle \rangle$
- 1700S		me ((IIIM	
- 17258				F*11
- 17755	RE		/////	1)))
- 1800S - 1825S				
18505		12	+	#
- 1875S			T = 1 1	} }]/
- 1900S	<		\$ {	4] []
- 1925S		25 19F		
- 1950S			//_/////	
1975S 2000S				[]
- 20005		THER / /	י סי	,



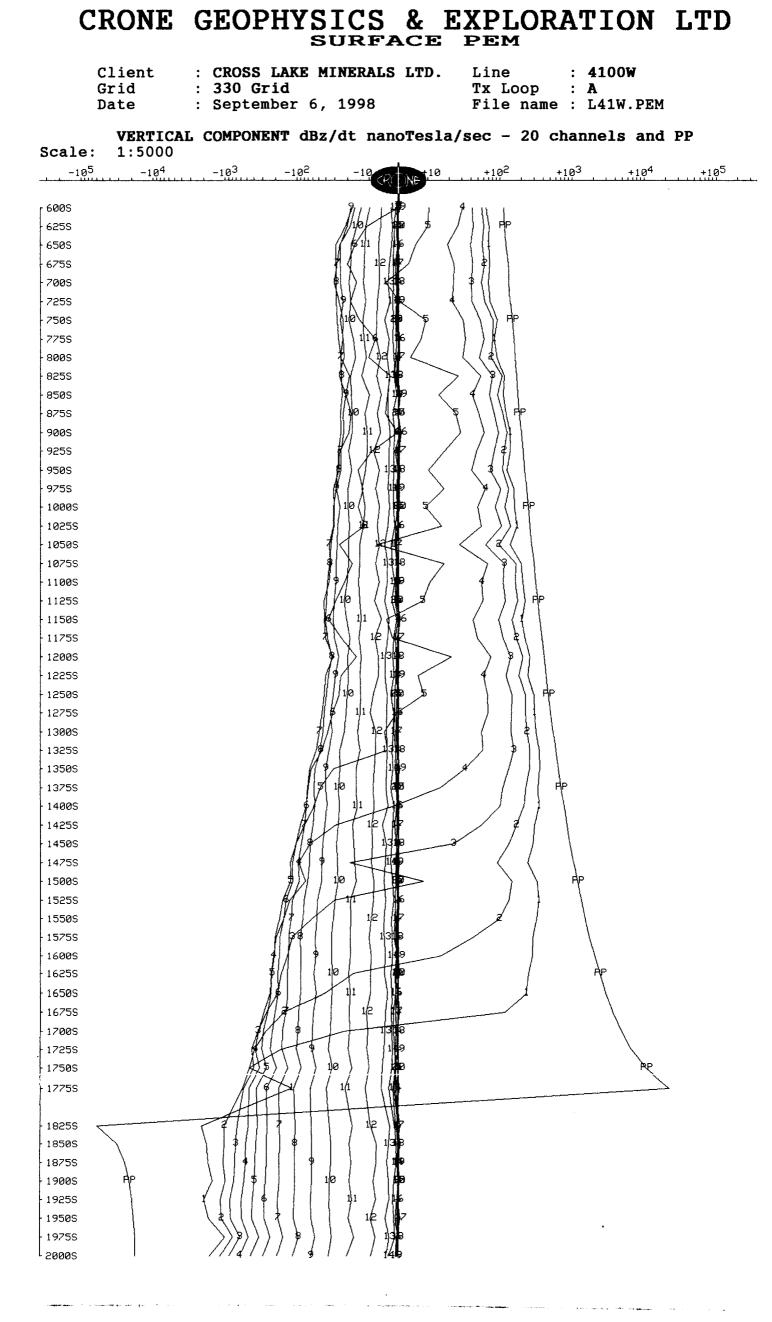
Client Grid Date	: CROSS LAKE MINERALS LTD. : 330 Grid : September 10, 1998	Line : 4000W Tx Loop : A File name : L40W.PEM
IN-LINE HOR Scale: 1:5000	IZONTAL COMPONENT dBx/dt nano]	Tesla/sec - 20 channels and PP
-10 ⁵ -10 ⁴	-10 ³ -10 ² -10 +10	+10 ² +10 ³ +10 ⁴ +10 ⁵

	-10 ⁵	1:5000 -10 ⁴	-10 ³	-102	-10 (PC)NE+10	+102	+10 ³	+104	+10 ⁵
	600S					1111			
	6255								
	650S				() ()) / 推			
	6758					/ st ()st			
	700S								
	7255				10				
	750S					6			
	775S				₩ € \	(7 (
	800S								
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9255 9 9265 9 9265 9 9268 9 9268 9 18256 9 18256 9 18256 9 18256 9 18256 9 18256 9 18256 9 12856 9 12905 9 12905 9 12905 9 12905 9 12905 9 12905 9 12925 9						(¢			
9965 9755 9755 18295 18295 18295 18995 1999					the	7			
9755 975 18905 14 18255 14 1805 <td< td=""><td></td><td></td><td></td><td></td><td></td><td>\$))}</td><td></td><td></td><td></td></td<>						\$)) }			
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1175 1200 12253 10 12565 10 12755 10 12865 10 12755 10 12755 10 12755 11 12755 11 12865 10 12755 11 12865 11 12755 11 12865 11 12755 11 12865 11 12865 11 12855 10 15965 10 15965 10 16255 11 17255 10 12755 10 12755 10 12865 11 12755 11 12865 11 12755 11 12865 11 12755 11 12865 11 12755 11 12865 11 12865 11 12865 11 12865 11 12865 11 12865 11 12865 11 12865 11 1295 10									
12005 12 12255 11 12755 12 13255 12 13255 12 13255 12 13255 12 13255 12 13255 12 13255 12 13255 12 13255 12 13255 12 14255 13 14255 13 14255 13 14255 13 14255 13 14255 13 14255 13 14255 14 14255 14 14255 14 14255 14 14255 14 14255 14 15255 14 15255 14 15255 14 15255 14 16255 14 17255 14 17255 14 1605 14 1605 14 1755 14 1605 14 1755 14 18255 14 18255 14 18255 14							L.		
12255 10 10 10 10 12255 10 10 10 10 12255 10 10 10 10 12255 10 10 10 10 12255 10 10 10 10 12255 10 10 10 10 12255 10 10 10 10 12255 10 10 10 10 12255 10 10 10 10 14255 10 10 10 10 15065 10 10 10 10 15255 10 10 10 10 15255 10 10 10 10 16055 10 10 10 10 16255 10 10 10 10 17255 10 10 10 10 17255 10 10 10 10 16056 10 10 10 10 16056 10 10 10 10 17255 10 10 10 10 16056 10 10 10 10							l I		
12365 11 12 12755 12 13255 12 13255 12 13255 12 13255 12 13255 12 13255 12 13255 12 14065 11 14255 133 14255 133 14255 133 15065 14 15255 14 15265 14 15255 14 15265 14 16065 14 16255 14 16255 14 16256 14 17255 14 17255 14 17255 14 17255 14 17255 14 17255 14 17255 14 17255 14 18255 14 18255 14 18255 14 18255 14 18255 14 18255 14 18255 14 18255 14 18255 14 18255 14 1806							1		
12755 12 12 14 13665 13 14 14 13755 11 14 14005 11 14 14255 13 14 14005 11 14 14255 13 14 14255 13 14 14255 13 14 14255 13 14 14255 13 14 14255 13 14 14255 13 14 14255 14 14 14255 14 14 15255 14 14 15255 14 14 15255 14 14 16255 14 14 16255 14 14 17255 14 14 17255 14 14 17255 14 14 18255 14 14 18255 14 14 18255 14 14 18255 14 14 18255 14 14 18255 14 14 18255 14 18255 14 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>									
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13255 100 100 5 13560 111 100 5 14255 112 112 100 14256 1133 100 100 14255 103 100 100 15065 100 100 100 15255 100 100 100 15255 100 100 100 15255 100 100 100 15255 100 100 100 15255 100 100 100 15255 100 100 100 15255 100 100 100 15255 100 100 100 15255 100 100 100 15255 100 100 100 15255 100 100 100 15255 100 100 100 15255 100 100 100 15255 100 100 100 15255 100 100 100 15255 100 100 100 15255 100 100 100 15255 100 100 100 1									
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14005 10									
14255 143 16 10						$X \downarrow I$			
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14755 10					<i>N</i> \				
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1650S 1675S 1700S 1725S 1750S 1800S 1825S 1850S 1850S 1850S 1950S 1925S 1950S 1975S 1975S					161/41/	/			
1675S 1700S 1725S 1750S 1800S 1825S 1850S 1875S 190S 1925S 1950S 1975S					₩₩) \	$ \langle \rangle \rangle \rangle \rangle \rangle \rangle$	}		
1725S 10 pc 5 1750S 111 5 1775S 12 7 1800S 12 7 1825S 10 10 1850S 11 10 1875S 11 10 1900S 3 8 7 1925S 33 8 7 1950S 107P 5 107P						/ ∦ / {	\$		
1725S 10 PC 5 1750S 11 0 1775S 12 0 1800S 10 10 1825S 10 10 1825S 11 11 1825S 10 10 1825S 11 11 1900S 10 10 1925S 3 8 1950S 107P 5						$\langle X \rangle$) \ \ \\\		
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1775S 1800S 1825S 1850S 1875S 1875S 1900S 1925S 1950S 1975S						1) 1/2	$\rangle \rangle \rangle \rangle \rangle \rangle$		
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1825S 1850S 1875S 1875S 1900S 1925S 1950S 1975S					₩ (11817		
1850S 10 10 10 10 10 1875S 10 11 6 10 1900S 10 11 6 10 1925S 13 8 3 8 1950S 10 10 10 1975S 10 10 10					₩) / 4	5	JAHT		
1875S 1000 1900S 101 1925S 33 1950S 1000 1975S 1000					and 16		\$		
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1950S 1975S						7+1	1))))))))		
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	2000S				\mathbf{k}_{0}		111H		

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CRONE	GEOPHYSICS & EXPLORATION LTD SURFACE PEM
Client Grid Date	: CROSS LAKE MINERALS LTD. Line : 4100W : 330 Grid
IN-LINE HORI Scale: 1:5000	ZONTAL COMPONENT dBx/dt nanoTesla/sec - 20 channels and PP
-10 ⁵ -10 ⁴	-10^3 -10^2 -10^{-10} 10 $+10^2$ $+10^3$ $+10^4$ $+10^5$
600S	
- 625S - 650S	
675S	
7005	
- 7255	
- 750S	
- 7755	
- 8005	
8255	
8505	
- 875S - 900S	
9255	
9505	
9755	
- 10005	₩ β P 100 / / (1
10255	
- 10505	
10755	
- 1100S - 1125S	
1150S	
11755	$\frac{1}{2}$
- 1200S	
12255	(\mathbf{P}) (\mathbf{P})
12505	
12755	
- 1300S - 1325S	
1350S	
- 13755	
14005	
- 1425S	
- 1450S	
- 14755	
- 1500S - 1525S	
- 1550S	
15755	
16005	
16255	
- 16505	
- 1675S	
- 1700S - 1725S	
17 200	$(\mathbf{M} > (\neq >) \land (\neq))$
1775S	
18255	
- 1850S - 1875S	
19005	
19258	
- 1950S	$\begin{array}{c c} pp \\ \hline \\ p \\ \hline \\ p \\ \hline \\ p \\ \hline \\ p \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1$
19755	
L 2000S	/ 1483 / ; <i>B</i> / / / / //

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Client :: CROSS LAKE MINERALS LTD. Line :: 4200W Grid :: 330 Grid : Date :: September 6, 1998 File name : L420, FEM VERTICAL COMPONENT dBz/dt nanoTesla/sec - 20 channels and PP Scale :: 1:500 	CI	RONE	GEOPHYSIC	CS & E		TION LTD
Scale: 1:500 19:18:18:19:19: -19: -19: -19: -19: -19: -	G	rid	: 330 Grid		Tx Loop :	Α
			COMPONENT dBz/dt	nanoTesla/	sec - 20 chai	nnels and PP
			a a			
	-105	-104	-103 -102 -	-10 CR(D)NE+10	+10 ² +10 ³	+10 ⁴ +10 ⁵
	- 6005		8.	1.3 8	3	
5935 700 700 72955 72955 72955 700 700 700 </th <th></th> <th></th> <th>4)</th> <th></th> <th></th> <th></th>			4)			
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2235 1	- 7755		() tle			
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13255 13565 13755 14005 14255 14255 14255 14565 14755 14755 14755 14755 14755 14755 14755 14755 14755 14755 14755 14755 14755 14755 14755 14755 14755 14755 15095 15095 15755 16095 16095 16255 16095 16255 16095 16255 16095 16255 16095 16095 16095 16095 16095 16095 16095 16095 16095 16095 16095 16095 16095 16095 16095 16095 17096 17256 17256				TA /		
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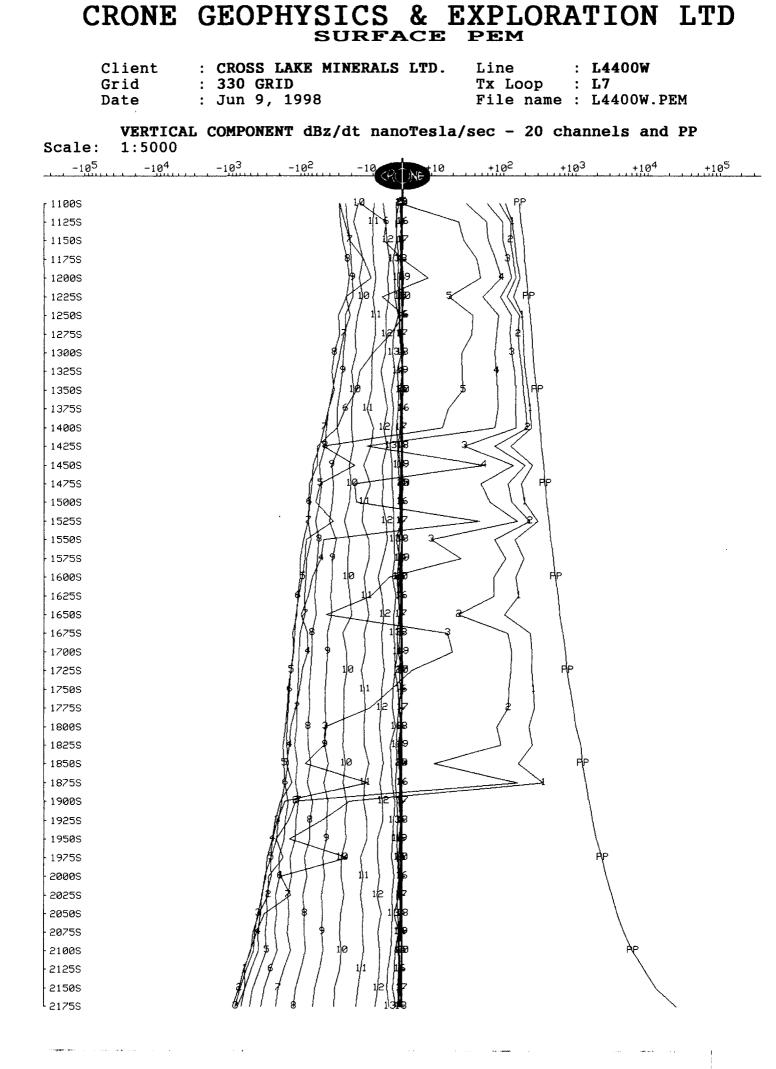
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Client Grid Date	: CROSS LAKE MINERALS LTD. : 330 Grid : September 6, 1998	Line : 4200W Tx Loop : A File name : L42W.PEM
IN-LINE HORI Scale: 1:5000	ZONTAL COMPONENT dBx/dt nam	oTesla/sec - 20 channels and PP
-10 ⁵ -10 ⁴	-10 ³ -10 ² -10 CR N+10	+10 ² +10 ³ +10 ⁴ +10 ⁵
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- 650S	- 	
6755		(/ ŧ /)•
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- 1	1200S	
1	12255	
- 1	12505	
- 1	12755	
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I	13255	
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	13755	
	14005	
	1425\$	
I	14505	
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I	1500S	
I	15255	
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- 1	1575\$	at the providence of the provi
	16005	
1	1625\$	$= \mathbf{M} \{ X = X = Y = Y = Y = Y = Y = Y = Y = Y =$
I	16508	
1	16759	
- 1	1700S 1725S	
- 7	17205	
	1775S	171L · · · · · · · · · · · · · · · · · · ·



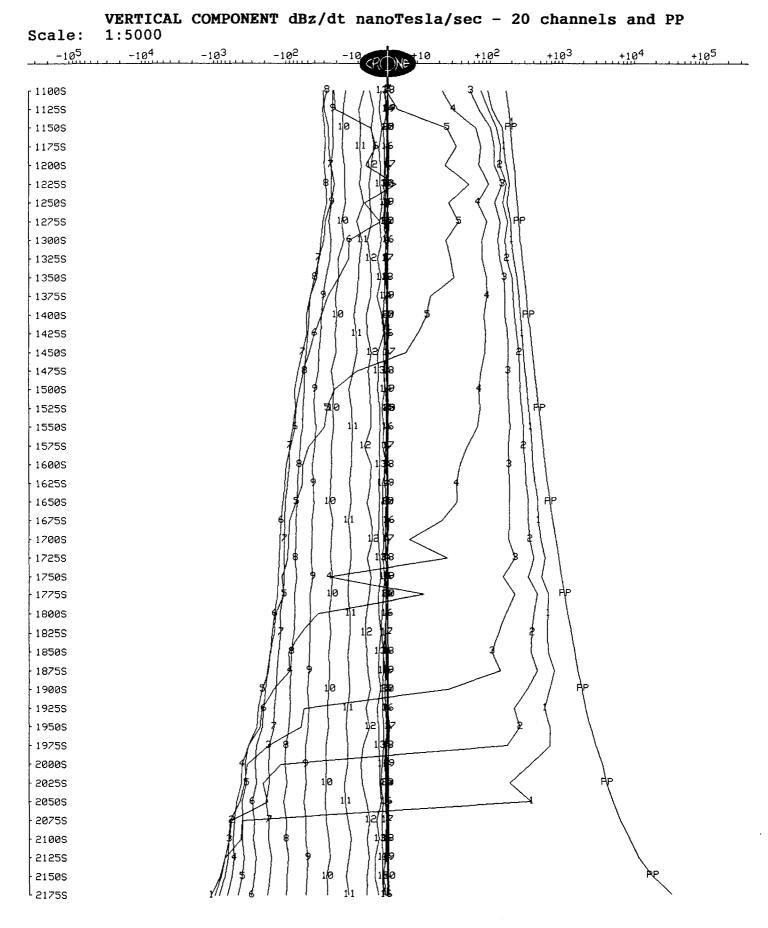
Client	: CROSS LAKE MINERALS LTD.	Line : L4400W
Grid	: 330 GRID	Tx Loop : L7
Date	: Jun 9, 1998	File name : L4400W.PEM

IN-LINE HORIZONTAL COMPONENT dBx/dt nanoTesla/sec - 20 channels and PP Scale: 1:5000

-10^5 -10^4 -10^3 -10^2 -10	$R(\mathbf{p}) = \frac{10}{10} + \frac{10^2}{10} + \frac{10^3}{10} + \frac{10^4}{10} + \frac{10^5}{10}$
r 1100s	\$1,1,1, , , , 6,1,
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- 1425S	$(\mathbf{A}) $
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1475\$	
- 1500S	1600 < (1 < 1)
- 15255	₩ (
- 1550S	
- 15759	
16005	
1625\$	
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1750S 1775S	
18005	
18255	$10 \left(\frac{1}{10} + \frac{1}{10} + \frac{1}{10} + \frac{1}{10} \right)$
18505	
18755	
19005	
19255	
1950S	a 16 $ $ e
19755	
20005	
20255	
20505	
20755	$1 \frac{1}{10} \frac{1}{10} \left(\frac{1}{5} \frac{1}{10} \frac{1}{10} \right)$
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21505	$(\texttt{H}_{\mathcal{F}} \land) \Rightarrow)))))))))))))))))$
L 2175S	

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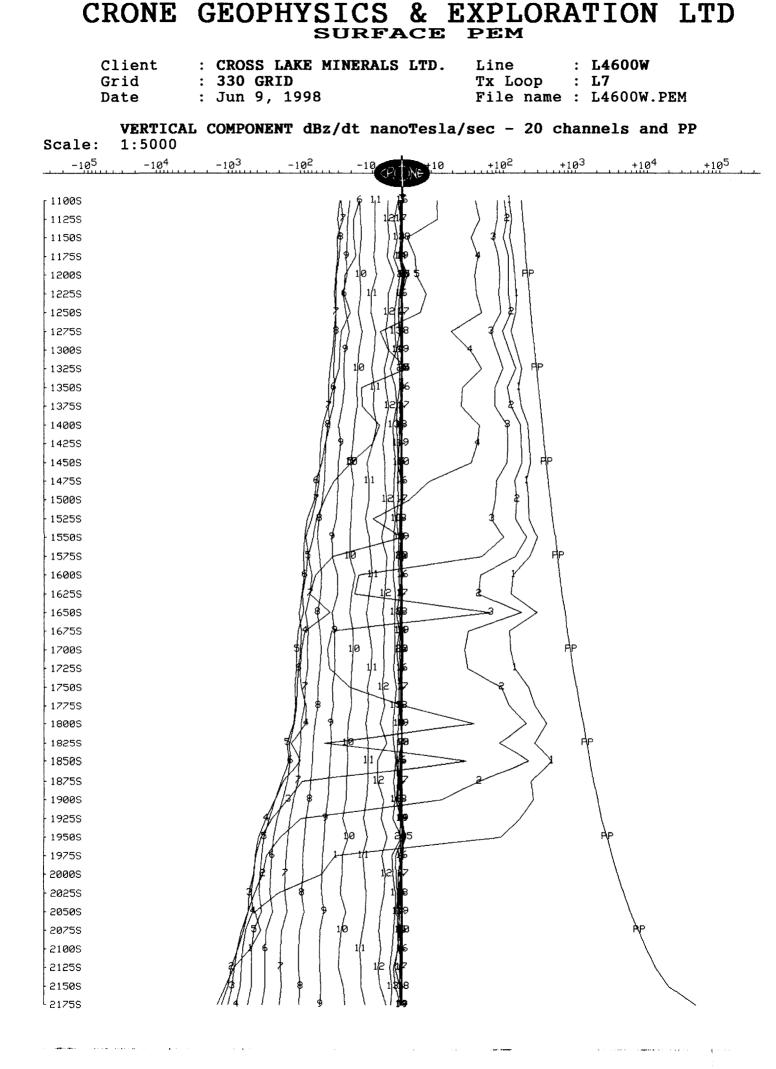
Client	: CROSS LAKE MINERALS LTD.	Line : L4500W
Grid	: 330 GRID	Tx Loop : L7
Date	: Jun 9, 1998	File name : L4500W.PEM



Client	: CROSS LAKE MINERALS LTD.	Line : L4500W
Grid	: 330 GRID	Tx Loop : L7
Date	: Jun 9, 1998	File name : L4500W.PEM

IN-LINE HORIZONTAL COMPONENT dBx/dt nanoTesla/sec - 20 channels and PP Scale: 1:5000

Scale:	1:2000							
-105	-104	-103	-102	-10 CRCDN6+10	+102	+103	+104	+105
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11205								
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1575S				1 1 3)	/) *) (3		
- 1600S				14		14		
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16755						M		
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- 17505						۹ (۱)		
- 1775\$						1 Nb		
- 1800S - 1825S								
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	Client Grid Date	: 330	GRID	NERALS LTD.	Tx Loop	
I N - ale		ZONTAL	COMPONENT	dBx/dt nano	[esla/sec -	20 channels and PH
-10 ⁵		-10 ³	-102	-10 CR(1)NE+10	+102 +	-10 ³ +10 ⁴ +10 ⁵
	⋏⋏∊ ⋏∊⋏⋰⋏⋰⋏ ⋳⋳∊⋰ <mark>⋰⋏⋏⋏⋏⋏</mark> ⋧∊	<u>ktt</u>	<u></u>	RONE		
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350S				\mathbf{M}		
3755					× \ \ \ \	
400S						
425S					PP 5	
450S					11/2 NL	
475S					1611	
500S						
525S						
550S 575S						
5/35 6005					' X J Ï / I L	
625S						
650S					\mathcal{V}	
675S					Ap (s/A	
700S						
7255				2		
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825S				1 1	()	
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8755				u∰e∖)) 🛊 🎽))	3
900s				₩) /	* 4	
925S				a 1/2	/	
95ØS				1 4 1/1 / (′ {	
975S				₽ (()		\$
000S				4₽}	* \	\$ }
025S				14	• / / 八/ ś	▶) }}
050S				2135 10		$\langle \langle \langle \rangle$
Ø75S) } }))))))))))))))))))))]
1 00 S				₽ } { }		<u> </u>
1255					\$	NI
150S				bba }/ ∳	1 1 4	IN

Client	: CROSS LAKE MINERALS LTD.	Line : L4700W
Grid	: 330 GRID	Tx Loop : L7
Date	: Jun 11, 1998	File name : L4700.PEM

VERTICAL COMPONENT dBz/dt nanoTesla/sec - 20 channels and PP Scale: 1:5000 NE +10 +102 +103 -105 -104 -103 -102 +104 +105 -10 12 2200S 22255 225ØS 22755 10 2300S 23255 23505 23755 2400S ıþ 24255 1/1 245ØS 24755 12 2500S 25255 10 P₽ 25505 25755 1/1 2600S 26255 265ØS 26755 10 l 2700s

Client	: CROSS LAKE MINERALS LTD.	Line : L4700W
Grid	: 330 GRID	Tx Loop : L7
Date	: Jun 11, 1998	File name : L4700.PEM

IN-LINE HORIZONTAL COMPONENT dBx/dt nanoTesla/sec - 20 channels and PP Scale: 1:5000 -10^5 -10^4 -10^3 -10^2 -10 $+10^2$ $+10^3$ $+10^4$ $+10^5$

	~104	-10 ³	-102	-10 -D(T)	+10	+104	+103	+104	+10 ⁰
-10 ⁵ 22200S 2225S 2250S 2250S 2275S 2300S 2325S 2325S 2375S 2375S 2400S 2425S 2450S 2450S 2450S	-104	0 ³	102			+10 ²		+104	<u>+10⁵</u>
- 2500S				-	4	+ / / /			
- 25258					<u>_</u>	- All All All All All All All All All Al			
- 25505					7				
- 25755					3				
26005		¥ / /	P						
- 2625\$		(7)	$ \langle \langle \rangle $	7					
26505		// /	$ \rangle$						
26755		((4	XII						
L 27005		1111	sf)≽p- /	1400					

Client	: CROSS LAKE MINERALS LTD.	Line : L4700W
Grid	: 330 GRID	Tx Loop : L7
Date	: Jun 8, 1998	File name : L4700W.PEM

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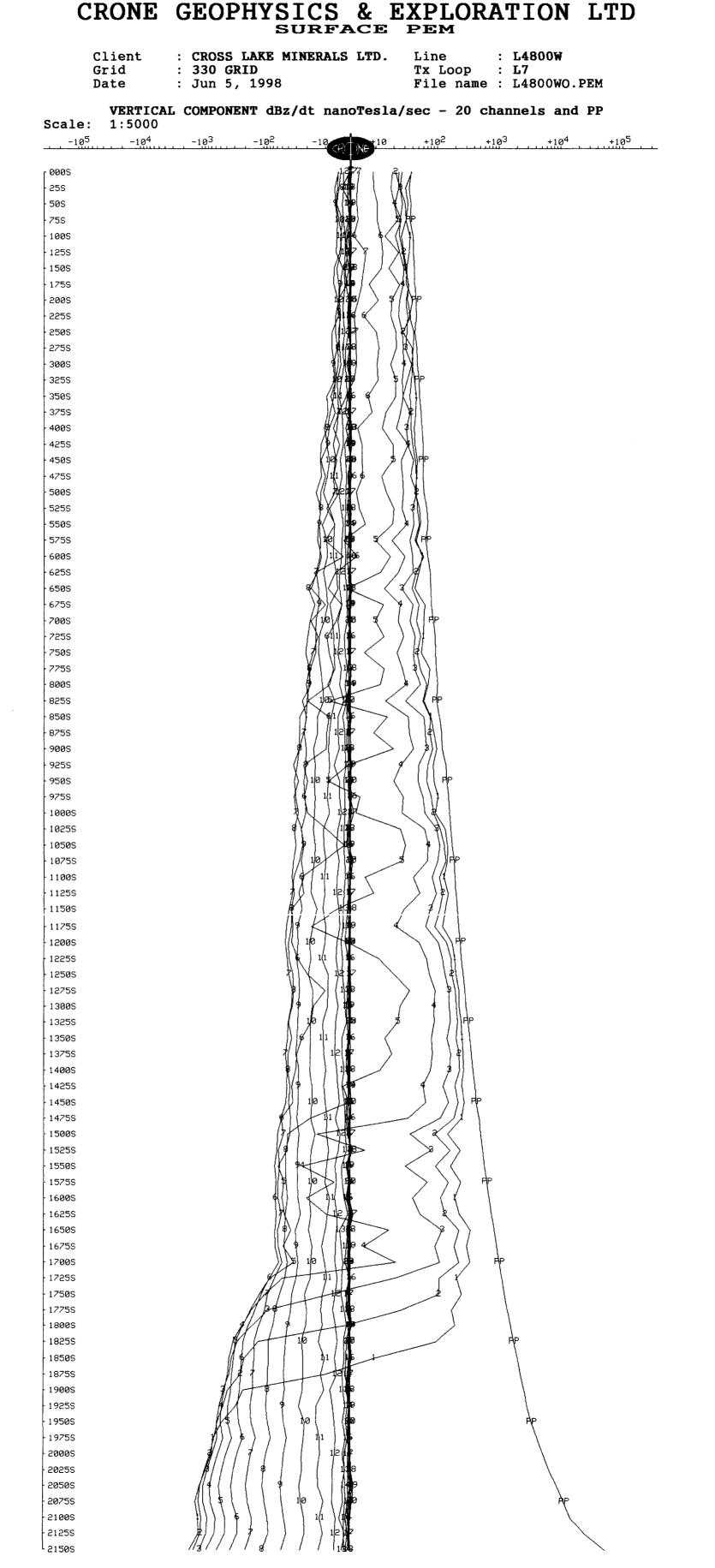
Scale:	VERTICAL 1:5000	COMPONENT	dBz/dt	nanoTesl	a/sec -	20 channo	els and P	Р
-105	-104	-10 ³	102 -		+102	+103	+104	+10 ⁵
-10 ⁵ 1100S 1125S 1150S 1175S 1200S 1225S 1250S 1225S 1275S 1300S 1325S 1350S 1375S 1400S		<u>-10³ </u>			+1.0 ²		<u>+10⁴</u>	+10 ⁵
1425S 1450S 1475S 1500S 1525S 1550S 1575S 1600S 1625S 1625S 1625S 1675S 1700S 1725S 1725S		ę		112 17 112 17 12 17 138 19 19 19 19 19 19 19 19 19 10 10 10 10 10 10 10 10 10 10 10 10 10				
17755 18005 18255 18255 18755 19005 19255 19255 19255 20005 20255 20005 20255 20505 20755 21005 21255 21505				138 199 165 1227 128 (1189 (1189)			AP AP	

Client	: CROSS LAKE MINERALS LTD.	Line : L4700W
Grid	: 330 GRID	Tx Loop : L7
Date	: Jun 8, 1998	File name : L4700W.PEM

IN-LINE HORIZONTAL COMPONENT Scale: 1:5000	dBx/dt nanoTesla/sec - 20 channels and PP
-10 ⁵ , -10 ⁴ , -10 ³ , -10 ²	-10 $(R + 10^{2} + 10^{3} + 10^{4} + 10^{5})$
ر 1100S	
1125S	
1150S	
11755	
1200S	
12258	
1250S	
12755	
- 13005	
- 1325S	
- 135ØS	
- 13755	
- 14005	
- 1425S	
- 1450S	
- 1475S	₽ ¹ 24 \ } 7 \{ \$\
- 1500S	
15255	₩ ₩/ (\$9,) (\\\ \
- 155ØS	
15755	
- 16005	
16258	1 46 3 () (8) (10
- 1650S	₩ X ₹ & { < { 1
- 16755	
- 1700S	(γ^{1}) (γ^{1}) (γ^{1}) (γ^{1})
- 17255	
- 1750S	$\P \land \land$
- 1775\$	
- 1800S	$\frac{1}{2} \frac{1}{2} \frac{1}$
- 18255	
- 1850S	
18755	$\mathbb{H}(\mathcal{A},\mathcal{A},\mathcal{A},\mathcal{A},\mathcal{A},\mathcal{A})$
- 1900S	
- 1925S	(1)
1950S	
19755	
20005	
- 20255	
- 2050S	
- 2075S - 2100S	
21205	
21505	\mathbf{Z} / \mathbf{J} / \mathbf{I} / \mathbf{I} / \mathbf{A} / \mathbf{I} /
21505	

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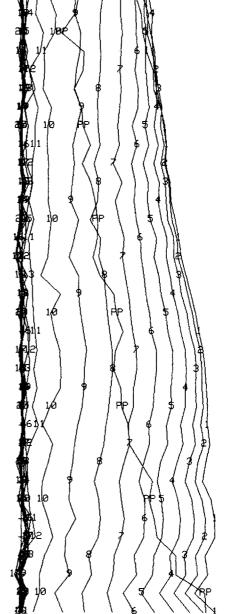
e e compositor e constante que a compositor e que a compositor de la compos



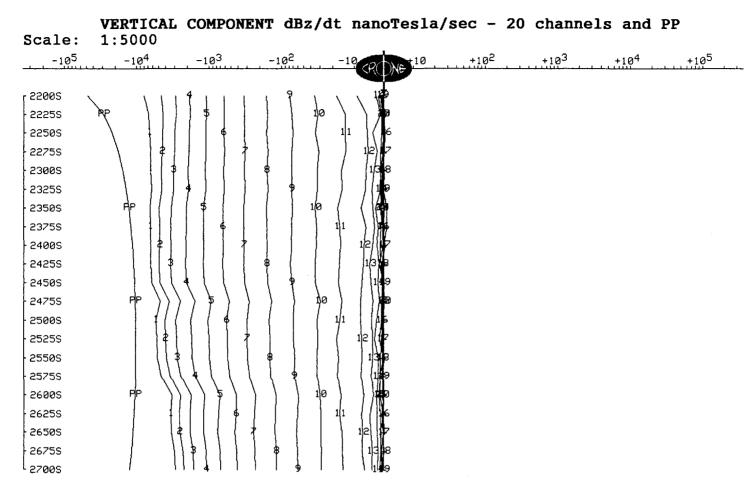
Client	: CROSS LAKE MINERALS LTD.	Line : L4800W
Grid	: 330 GRID	Tx Loop : L7
Date	: Jun 5, 1998	File name : L4800WO.PEM

IN-LINE HORIZONTAL COMPONENT dBx/dt nanoTesla/sec - 20 channels and PP Scale: 1:5000 .

Scale: $1:5000$	-10^2 -10^2 $+10^3$ $+10^4$ $+10^5$
000S 25S	
- 50S	
755	
100S	
- 1255	man her (1)
150S	
1755	
200S 225S	
250S	
2755	$\lambda = \chi $
3005	
3255	
3505	
- 375S - 400S	$Pe \left(\begin{array}{c} 1 \\ 1 \\ 1 \end{array} \right) = \left(\begin{array}{c} 1 \\ 1 \\ 1 \end{array} \right) = \left(\begin{array}{c} 1 \\ 1 \\ 1 \\ 1 \end{array} \right)$
4255	
450S	
4755	⊥∰e { • • {\/]¢
500S	
- 5255	
- 550S - 575S	
6005	
6255	
6505	
675\$	↓ > く く その
- 7005	
- 7258	
- 750S - 775S	
8005	
8255	
- 850S	
- 8755	
9005	
- 925S - 950S	$\frac{1}{100}$
975\$	
10005	
10255	
10505	
10755	
- 1100S - 1125S	
1150S	
11755	
12005	
12255	
12505	
12755	
- 1300S - 1325S	
- 1350S	
13755	$\mathbf{A} = \mathbf{A} + $
- 1400S	₩ YY >> \$ N
- 14255	\mathbf{T}
- 1450S - 1475S	
15005	abs be be bb
15255	
15505	
- 15755	
16005	
1625S 1650S	
16755	
17005	
1725\$	> >
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17755	
- 1800S - 1825S	
18235	\mathbb{F}
18755	
19005	46 4 7 4 7 4 7 4 7 4 7
19255	★ 〉 () 夫) 〉) ﴾
19505	\$\$\$ /] \$ / X / / ₹//
- 1975S - 2000S	
- 2025S	
- 2050S	
- 2075S	
21005	
21255	
L 2150S	



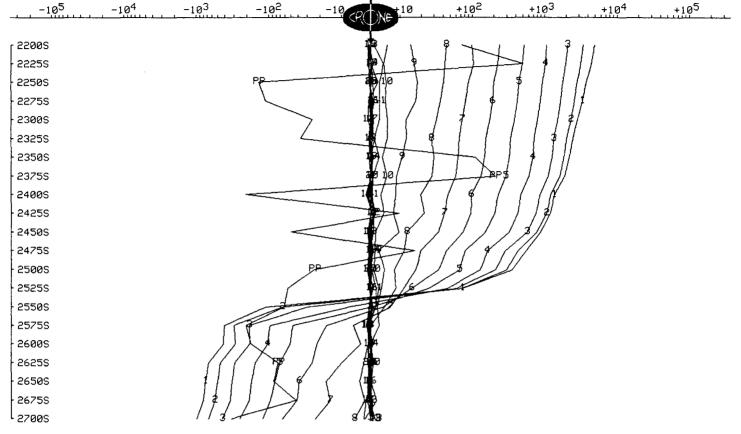
Client	: CROSS LAKE MINERALS LTD.	Line : L4800W
Grid	: 330 GRID	Tx Loop : L7
Date	: Jun 11, 1998	File name : L4800W.PEM



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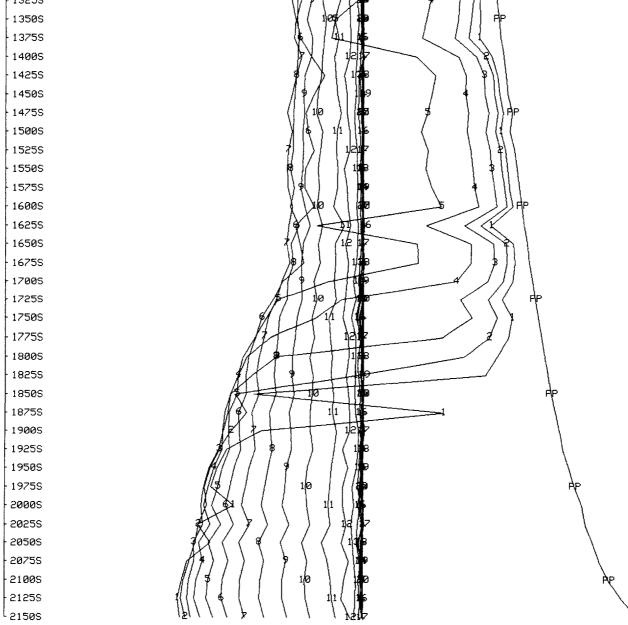
Client	: CROSS LAKE MINERALS LTD.	Line : L4800W
Grid	: 330 GRID	Tx Loop : L7
Date	: Jun 11, 1998	File name : L4800W.PEM

IN-LINE HORIZONTAL COMPONENT dBx/dt nanoTesla/sec - 20 channels and PP Scale: 1:5000

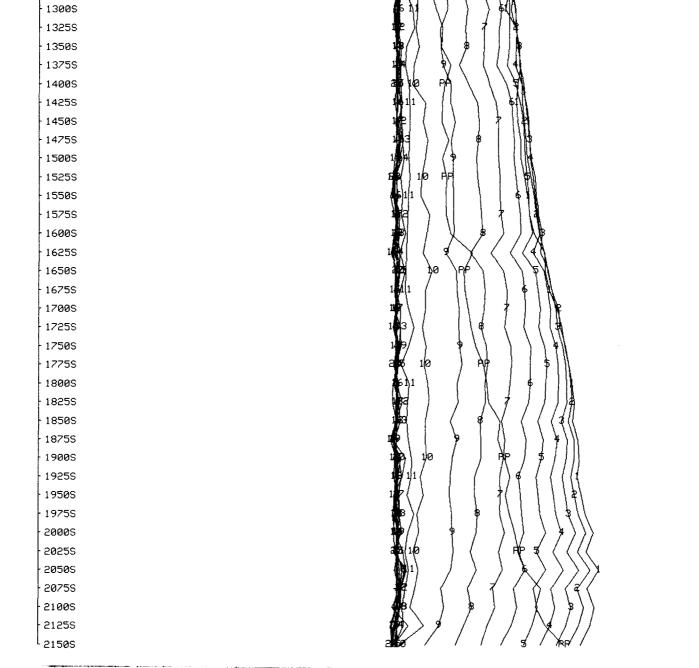


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UERTICAL COMPONENT dbz/dt nanotesla/sec - 20 channels and PP cale : 1:5000			: CROSS LAK : 330 GRID : Jun 5, 199	e minerals ltd. 98	Tx Lo	: L49 00p : L7 name : L49	
		VERTICA			a/sec -	20 channel	s and PP
	-105	-104	-10 ³ -10	-10 P(1)NE+10	+102	+103	+10 ⁴ +10 ⁵
					4		
	0005						
					M		
	1005				50 MP		
	1255				[N/[
	1505						
	1755)/\$[]		
	2005			€\ ≬1 1 6 \	(4))		
	2255				\$ } \$		
	2505				/(()		
	2755				((*))		
	3005			(A) (A))) (((
	3255			× (*** /	(† ₩}		
	3505			(飛騨)			
	3755				′ \ { }}		
	4005				\\ }		
				/// // //			
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5725 10	550S				\ \$1		
	5758			M \ \$	4 111		
225 1 1 2 505 1 1 2 725 10 10 10	6005)/10// 10 5			
3755 3 10 10 10 7255 4 10 10 10 7256 10 10 10 7255 10 10 10 7256 10 10 10 7255 10 10 10 7256 10 10 10 7255 10 10 10 7256 10 10 10 7256 10 10 10 7256 10 10 10 7256 10 10 10 7256 10 10 10 7256 10 10 10 7256 10 10 10 7256 10 10 10 7256 10 10 10 7256 10 10 10 7256 10 10 10 7256 10 10 10 7256 10 10 10 7256 10 10 10 7256 10 10 10 7256 10 10 10 7256 10 10 <td>6255</td> <td></td> <td></td> <td>K1 \$K1 \$ /</td> <td></td> <td></td> <td></td>	6255			K1 \$K1 \$ /			
1005 100 100 100 1255	650\$			(1×1)) \$ ()		
10 10 10 10 756 10 10 10 9005 10 10 10 9255 10 10 10 9255 10 10 10 9255 10 10 10 9255 10 10 10 9255 10 10 10 9255 10 10 10 9255 10 10 10 9255 10 10 10 9255 10 10 10 9255 10 10 10 9255 10 10 10 9255 10 10 10 9255 10 10 10 9255 10 10 10 9255 10 10 10 9255 10 10 10 9255 10 10 10 9255 10 10 10 9255 10 10 10 9265 10 10 10 9265 10 10 10 9265 10 10 10 9265 <td>675S</td> <td></td> <td></td> <td>ŧV>I\\I∳₽></td> <td>(\$)</td> <td></td> <td></td>	675S			ŧV>I\\I∳₽>	(\$)		
985 997 986 998 985 998 985 998 985 998 985 998 985 998 985 998 985 998 985 998 985 998 985 998 985 998 985 998 985 998 986 998 9875 998 988 99	700S			(*) # * (≯X		
1255 2256 2258 2258 2258 2008 2258 10 10 10 10 10 10 10 10 10 10 11 10 10 11 10 10 11 12 13 14 15 105 110	7255			/\1P / \1 P			
9995 9005 9255 9005 9255 9007 9255 9007 9255 9007 9255 9007 90085 9007 90095 9007 9007 9007 9007 <td>750S</td> <td></td> <td></td> <td></td> <td>$\langle 11 \rangle$</td> <td></td> <td></td>	750S				$\langle 11 \rangle$		
9255 90 9255 90 9255 91 9256 91 9257 91 9258 91 9258 91 9258 91 9258 91 9258 91 9259 91 9258 91	775S			JANIX \			
3758 10 10 10 10 3758 10 11 0 10 3758 10 10 10 10 3758 10 10 10 10 3758 10 10 10 10 3758 10 10 10 10 3758 10 10 10 10 3758 10 10 10 10 3758 10 10 10 10 3758 10 10 10 10 3758 10 10 10 10 3758 10 10 10 10 3758 10 10 10 10 3758 10 10 10 10 3758 10 10 10 10 3758 10 10 10 10 3758 10 10 10 10 3758 10 10 10 10 3758 10 10 10 10 3758 10 10 10 10 3758 10 10 10 10				XIHI /			
2755 2005 255 256 2755 1005 1105	8205						
9005 9255 9256 9257 9258 9258 9259 <td>8755</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	8755						
9255 9505 9255 9255 9266 9255 92675 9268 9275 9268 9275 9268 9275 9268 9275 9268 9275	9005			11 hat	41		
10 10 10 10 10 10005 11 11 11 11 1005 11 11 11 11 1005 110 110 110 110 1105 110 110 110 110 1105 110 110 110 110 1105 110 110 110 110 1105 110 110 110 110 1105 110 110 110 110 1105 110 110 110 110 1105 110 110 110 110 1105 110 110 110 110 1105 110 110 110 110 1105 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110	9255			≬ /){/ ¦∰ ∎ /	7 ()		
1000S 11 12 2 102SS 12 2 1050S 110 3 107SS 110 3 117SS 111 115 200S 10 113 22SS 10 114 25SS 11 115	950S			≬ ∮/\\ ₩•<	$\langle \langle \langle \rangle \rangle$		
0255 12 2 0505 1106 3 02755 1005 1005 10 1255 110 1505 111 11755 111 2005 10 2255 10 2505 111 2755 111	9755				> >>> 🗛		
102505 1126 1126 10205 112 112 11255 112 111 11505 111 112 11755 111 113 2005 110 205 2555 110 111 2505 111 1217	1000S						
1005 1005 1005 1005 1005 11255 1005 1005 1005 11505 111 115 11755 110 110 2005 100 100 2255 100 100 2505 111 115 2755 112 112	10258				2		
100S 10 10 10 10 125S 11 15 11 16 150S 10 10 10 175S 200S 10 10 225S 10 10 10 250S 11 15 10 275S 10 10 10	10505				3///		
125S 150S 177S 200S 225S 250S 275S	10755				7 / /]	P	
150S 175S 200S 225S 250S 275S					- 1	r	
1175S 200S 225S 250S 275S					/] [
2005 2255 2505 2755 2005 2755 2005 2755 2005 200				KI HTT	- []		
2255 PP 2505 5 1/1 5 7755 7 1/21/7 2	12005				$\langle \rangle \rangle$	}	
250S 275S 7 1/1 1/16 2	12255			N 10	_///	l HP	
	1250S				<u> </u>		
	12755			t late		{	
	13005						
	13255				4 []]		

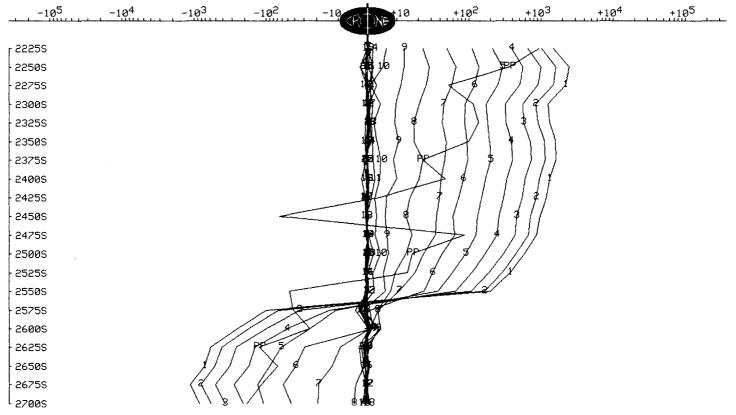


			SU	JRFAC	E E	PEM		
	Client Grid Date	: CROSS : 330 G : Jun 5	RID	NERALS LTI	1	Tx Loop	:	
IN- Scale:	-LINE HORIZ : 1:5000	ONTAL C	OMPONENT	dBx/dt na	anoTe	sla/sec -	20	channels and PP
-105		-103	-102		10	+10 ² +	10 ³	+10 ⁴ +10 ⁵
000S					XX			
255					XX			
50S					XXX			
75S					N K			
1005								
1258								
150S								
1755								
200S				/ . [~\/	XXX			
2255					XXX			
250S				PRE 1				
275S 300S								
3005					IK			
						2		
350S 375S				ALY Y	\ [1]//	Ň		
4005					16 1/1	/		
					7° IXVI	\mathbf{h}		
425S 450S						1		
4305					\			
4755 500S					/ \ / \	Ŵ.		
5255				a P/ 10	a [\]	L		
550S					° / ∖	Y		
575S					$\langle 1 \rangle$			
600S								
6255								
650S					, []]	N.		
6755					$\langle \rangle$			
700S				I		A		
7255				/ 74	$\langle f \rangle$	X		
750S								
7758				and Ante	a /	1		
800S				IV.	$\left \right\rangle \right $			
8255						H.N.		
8505								
8758				1 1 4	∖,]	\ (\		
900S				A PRIE	a//	/ 🖓		
9255						\$ 1		
950S				₩2 <	$\langle \rangle$	r l la		
9755					\rangle)) 5		
1000S				K /\/	14 1	((
10255				and he	P{	\$1)		
1050S					$ \rangle $	6		
10755				¥∖ ↓		∤ }		
11005				1	Xk			
11255					$\langle \rangle$	1 14		
11505					part 1	\$ }		
1175S				4 /1)	l	[∉ [#		
12005				₩ (// /	₹ (((₽		
12255				⊥ ∰ \ \{	()	$ \setminus X $		
1250S					}\	(\\		
12755				a b (101	nte \	() 5		
13005				ь 1 1	$\langle \rangle$) \$A		



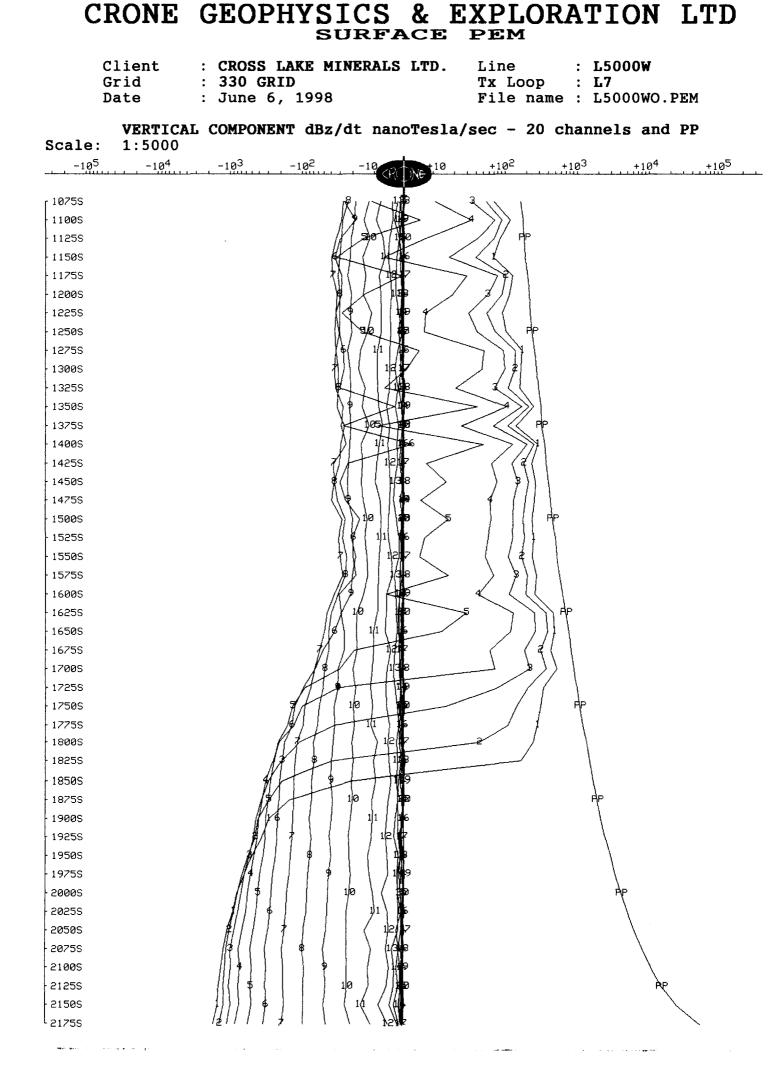
Client	: CROSS LAKE MINERALS LTD.	Line : L4900W
Grid	: 330 GRID	Tx Loop : L7
Date	: Jun 11, 1998	File name : L4900W.PEM

IN-LINE HORIZONTAL COMPONENT dBx/dt nanoTesla/sec - 20 channels and PP Scale: 1:5000



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	Client Grid Date	: CROSS LAKE : 330 GRID : Jun 11, 199	MINERALS LTD. 8	Tx Loop :	L4900W L7 L4900W.PEM
Scale		CAL COMPONENT dB	z/dt nanoTesla	/sec - 20 cha	nnels and PP
-10			-10 24 No +10	+10 ² +10	³ +10 ⁴ +10 ⁵
2225S 2250S 2275S 2300S 2325S 2375S 2375S 2400S 2425S 2425S 2425S 2425S 2425S 2500S 2525S 2550S 2550S 2575S 2600S 2625S 260S 2625S 2650S 2650S	PP PP		$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		



Client	: CROSS LAKE MINERALS LTD.	Line : L5000W
Grid	: 330 GRID	Tx Loop : L7
Date	: June 6, 1998	File name : L5000WO.PEM

IN-LINE HORIZONTAL COMPONENT dBx/dt nanoTesla/sec - 20 channels and PP Scale: 1:5000 -105 -104 -10 +103 +104 +105 -102 -103 +102 10 Ne 10755 11005 11255 1150S 11755 1200S 12255 12505 1275S 1300S 13255 135ØS 1375S 1400S 14255 145**0**S 14755 1500S 1525S 155ØS 1575S 1600S 16255 1650S 1675S 1700S 17255 1750S 1775S 1800S 18255 1850S 1875S 19005 19255 1950S 1975S 2000S 20255 20505 20755 2100S 21255 21505 ^l 2175S

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يروا بدايرها ما الدمار المحمد

C	RONE	GEOPHYSICS SURFA			ATION	LTD
I	Grid	: CROSS LAKE MINERALS : 330 GRID : June 6, 1998		Tx Loop		м
0 1 -	VERTICAL	COMPONENT dBz/dt nand	oTesla/s	ec - 20 cl	hannels and I	PP
Scale: -10 ⁵	1:5000 -10 ⁴	-103 -102 -10	+10	+10 ² +	10 ³ +10 ⁴	+105
<u></u>	<u></u>			<u>, , , , , , , , , , , , , , , , , , , </u>	()),	&
10505		VXX/1		PP (
- 1075S - 1100S						
11255						
11255			°			
- 11755		K Ass / T	8			
12005			6			
12255						
- 12505			8			
12755				$\{ \{ \{ \} \} \}$		
13005			5			
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13505			z \			
13755			B) //2/		
14005		(∳ <>)/ ₩	₽ <u> </u>	$\langle \langle \langle \langle \rangle \rangle$		
14255			a >5	> $>$ $>$ $>$ $>$ $>$ $>$ $>$ $>$ $>$		
1450S				$\langle \langle \langle \langle \langle \rangle \rangle \rangle$		
14755		x 4 (1 2	7	141		
1500S		AT ()	8	\ \\\$		
15255		<u></u> }}/ \<₩) 4 1111		
15505		{{ he } }	9 <	\$ { AP		
- 15755		\\\	e e			
- 1600S) <i>)</i> ?(/ 1) 4 (4	2) # \		
- 16255		\$\\ \ \ \	8	/ / \$!!\		
- 1650S			Ð	/ / ////	1	
16755			B 5/	////	1p	
- 17005			ò			
17255		M TTA	7	$\{$		
- 1750S			8			
17758			8	- 11) AP	
- 18005			·····		H-	
- 18255			» 			
18505						
- 1875S - 1900S			9			
19255			, 9) AP	
19505		1 + 1 + 1 + 1 + 1 = 1 + 1 / 1	6			
19755			- 7			
20005			B			
20255		//////////////////////////////////////	₽		\	
20505			0		ÀP	
20755			5		\backslash	
21005			7		\backslash	
21255		//\$	8		\backslash	
21505			9		\backslash	
21755			B		99	<.
- 22005		$\frac{1}{1} + \frac{1}{6} + \frac{1}$	6			\mathbf{i}

Client	: CROSS LAKE MINERALS LTD.	Line : L5100W
Grid	: 330 GRID	Tx Loop : L7
Date	: June 6, 1998	File name : L5100W.PEM

IN-LINE HORIZONTAL COMPONENT dBx/dt nanoTesla/sec - 20 channels and PP Scale: 1:5000

Scale:	1:5000							
-105	-104	-10 ³	-102	-10 RONE 10	+102	+103	+104	+105
10500					0 0			
1050S				$\mathbf{I}/\langle \cdot \rangle$	ĭ∖/Xĭ			
11005				and pp to				
11255								
11505								
11755								
12005								
12255				and AP				
1250S					6			
12755				14((7 114			
13005								
13255								
13505				3	(
13755					\rangle \rangle \rangle			
14005					<			
14255								
1450S				104 (4				
14755				194 (\$ 10 PP				
15005				1 4 ∮1	€₩			
15255				1412	(7 ())			
- 1550S						ß		
15755				#₩/ \ \ 9				
16005				and 10 AP	()(\$			
16255				5 1 1				
- 165ØS				P2)				
16755								
- 1700S					1 \	<u>}</u> /¶		
17255						₹ { (]		
- 17505								
- 1775S								
- 1800S - 1825S					′///			
18255				110 (54 210 100)				
18755						1 / / II		
19005					I X I			
19255				1 3	s 11 /			
1950S				1		4		
- 1975S				a n 10				
20005				161 1	↓			
20255								
- 2050S				₁, /	* / / \	{ \$		
20755				ın alık de	} }			
21005				00	() (\$	KP{		
21255) (4]	{ } }		
2150S				±	/ / / /	/\/≱/		
21755				∰≊}) ∳		1 1/1		
l 22005				K s l	1114	111		

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CRONE GEOPHYSICS & EXPLORATION LTD SURFACE PEM

Client	: CROSS LAKE MINERALS LTD.	Line : L5200W
Grid	: 330 GRID	Tx Loop : L7
Date	: Jun 8, 1998	File name : L5200W.PEM

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CRONE GEOPHYSICS & EXPLORATION LTD SURFACE PEM

Client	: CROSS LAKE MINERALS LTD.	Line : L5300W
Grid	: 330 GRID	Tx Loop : L7
Date	: Jun 8, 1998	File name : L5300W.PEM

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APPENDIX C:

CRONE INSTRUMENT SPECIFICATIONS

CRONE PULSE EM SYSTEM

SYSTEM DESCRIPTION

The Crone Pulse EM system is a time domain electromagnetic method (TDEM) that utilizes an alternating pulsed primary current with a controlled shut-off and measures the rate of decay of the induced secondary field across a series of time windows during the off-time. The system uses a transmit loop of any size or shape. A portable power source feeds a transmitter which provides a precise current waveform through the loop. The receiver apparatus is moved along surface lines or down boreholes.

The transmitter cycle consists of slowly increasing the current over a few milliseconds, a constant current, abrupt linear termination of the current, and finally zero current for a selected length of time in milliseconds. The EMF created by the shutting-off of the current induces eddy currents in nearby conductive material thus setting-up a secondary magnetic field. When the primary field is terminated, this magnetic field will decay with time. The amplitude of the secondary field and the decay rate are dependent on the quality and size of the conductor. The receiver, which is synchronized to the off-time of the transmitter, measures this transient magnetic field where it cuts the surface coil or borehole probe. These readings are across fixed time windows or "channels".

SYSTEM TERMINOLOGY

Ramp Time

"Ramp time" refers to the controlled shut-off of the transmitter current. Three ramp times are selectable by the operator; 0.5ms, 1.0ms, and 1.5ms. By controlling the shut-off rather than having it depend on the loop size and current ensures that the same waveform is maintained for different loops so data can be properly compared.

The 1.5ms ramp is the normally used setting for good conductors. It keeps the early channel responses on scale and decreases the chance of overload. The faster ramp times of 1.0ms and 0.5ms will enhance the early time responses. This can be useful for weak conductors when data from the higher end of the frequency spectrum is desired.

Time Base

Time base is the length of time the transmitter current is off (it includes the ramp time). This also equals the on time of the current. Eight time bases are selectable by the operator. They include the original time bases used in the analog system as well as time bases to eliminate the effects of powerline interference. The eight time bases are as follows: compatible to analog Rx: 10.89ms, 21.79ms; 60hz powerline noise reduction: 8.33ms, 16.66ms, & 33.33ms; 50hz powerline noise reduction: 10.00ms, 20.00ms, & 40.00ms

Since readings are taken during the off cycles, the time base will have an effect on the receiver channels. Normally, a standard time base is selected for the type of system and survey being used, but this can be changed to suit a particular situation. A longer time base is preferred for conductors of greater time constants, and in surveys such as resistive soundings where more channels are desired.

Zero Time Set

The term "zero time set" or "ZTS" refers to the starting point for the receiver channel measurements. It is manually set on the receiver by the operator thus allowing adjustments for the ramp times and fine tuning for any fluctuations in the transmitter signal.

Receiver Channels

The rate of decay of the secondary field is measured across fixed time windows which occupy most of the offtime of the transmitter. These time windows are referred to as "channels". These channels are numbered in sequence with "1" being the earliest. The analog and datalogger receivers measured eight fixed channels. The digital receiver, being under software control, offers more flexibility in the channel positioning, channel width, and number of channels.

PP Channel

The PEM system monitors the primary field by taking a measurement during the current ramp and storing this information in a "PP channel". This means that data can be presented in either normalized or unnormalized formats, and additional information is available during interpretation. The PP channel data can provide useful diagnostic information and helps avoid critical errors in field polarity.

Synchronization

Since the PEM system measures the secondary field in the absence of the primary field, the receiver must be in "sync" with the transmitter to read during the off-time. There are three synchronization methods available: cable connection, radio telemetry, and crystal clock. This flexibility enhances the operational capabilities of the system.

SURVEY METHODS

The wide frequency spectrum of data produced by a Pulse EM survey can be used to provide structural geological information as well as the direct detection of conductive or conductive associated ore

deposits. The various types of survey methods, from surface and borehole, have greatly improved the chances of success in deep exploration programs. There are eight basic profiling methods as well as a resistivity sounding mode.

Moving Coil

A small, multi-turn transmitter loop (13.7m diameter) is moved for each reading while the receiver remains a fixed distance away. This method is ideal for quick reconnaissance in areas of high background conductivity.

Moving Loop

Same as Moving Coil method, but with a larger transmit loop (100 to 300 meters square). This method provides deeper penetration in areas of high background conductivity, and works best for near-vertical conductors. This method can be used in conjunction with the Moving In-loop survey for increased sensitivity to horizontal conductors.

Moving In-Loop

A transmit loop of size 100 to 300 meters square is moved for each reading while the receiver remains at the centre of the loop. This method provides deep penetration in areas of very high background conductivity, and works best for near-horizontal conductors. It can be used in conjunction with the Moving Loop survey.

Large In-Loop

A very large, stationary transmit loop (800m square or more) is used, and survey lines are run inside the loop. This mode provides very deep penetration (700m or more) and couples best with shallow dip conductors (<45 deg.) under the loop.

Deepem

A large, stationary transmit loop is used, and survey lines are run outside the loop. This mode provides very deep penetration, and couples best with steeply dipping conductors (>45 deg.) outside the loop.

Borehole (Z Component only)

Isolated Borehole: A drill hole is surveyed by lowering a probe down a hole and surveying it with a number of transmit loops laid out on surface. The data from multiple loops gives directional information on the conductors.

Multiple Boreholes: One large transmit loop is used to survey a number of closely spaced holes. The change in anomaly from hole to hole provides directional information. These methods have detected conductors to depths of 2500m from surface and up to 200m from the hole.

3-D Borehole

Drill holes are surveyed with both the Z and the XY borehole probes. The X and Y components provide accurate direction information using just one transmit loop. Since the probe rotates as it moves down the hole a correction is required for the X-Y data. This is accomplished in one of two ways. The standard approach is to use the measurement of the primary field from the "PP" channel, apply a "cleaning" algorithm to remove most of the secondary field contamination, and compare this to theoretical values. The amount of probe rotation is then calculated, and the correction can be made. The second method involves the use of an optional orientation device for the X-Y probe which is produced in co-operation with IFG Corp. This attachment uses dipmeters to calculate the probe rotation.

Underground Borehole

Underground drill holes can be surveyed in any of the above mentioned borehole methods with one or more transmit loops on the surface. Near-horizontal holes can be surveyed using a push-rod system.

Resistivity Soundings

By reading a large number of channels in the centre of a transmit loop it is possible to perform a decay curve analysis giving a best-fit layer earth model using programs such as ARRTI or TEMIX.

EQUIPMENT

Transmit Loops

The PEM system can operate with practically any size of transmit loop, from a multi-turn circular loop 13.7m in diameter, to a 1 or 2 turn loop of any shape up to 1 or 2 kilometres square using standard insulated copper wire of 10 or 12 gauge. The multi-turn loop is made in two sections with screw connectors. The 10 or 12 gauge loop wire comes on spools in either 300m or 400m lengths. The spools can be mounted on packframe winders for laying out or retrieving.

Power Supply

The PEM system normally operates with an input voltage from 24v to 120v. Modifications have recently been made to increase the power to 240 volts. The maximum current is still 20 amps. For low power surveys a 20amp/hr 24v battery can be used. The power supply requires a motor generator and a voltage regulator to control and filter the input voltage to the transmitter.

Specifications: PEM Motor Generator

- 4.5 hp Wisconsin, (2 kw) 11 hp Honda (4 kw); 4 cycle engine
- belt drive to D.C. alternator

- cable output to regulator
- maximum output: 120v, 20amp (2 kw); 240v, 20amp (4 kw)
- fuse type overload protection
- steel frame
- external gas tank
- unit weight: 33kg (2 kw); 52kg (4 kw)
- optional packframe
- wooden shipping box
- shipping weight: 47kg (2 kw); 80kg (4 kw)

Specifications: PEM Variable Voltage Regulator

- selectable voltage between 24v and 120v or 48v and 240v
- 20amp maximum current
- fuse and internal circuit breaker protection
- cable connections to motor generator and transmitter
- anodized aluminium case
- unit weight 10kg; shipping weight 18kg
- padded wooden shipping box

Transmitter

The transmitter controls the bi-polar on-off waveform and linear current shut-off ramp. The latest 2000w PEM Transmitter has the following specifications:

Specifications: PEM Transmitter

- time bases: 10.89ms, 21.79ms, 8.88ms, 16.66ms, 33.33ms, 10ms, 20ms, 30ms
- ramp times: 0.5ms, 1.0ms, 1.5ms
- operating voltage: 24v to 120v (2 kw); 48v to 240v (4 kw)
- output current: 5amp to 20amp
- monitors for input voltage, output current, shut-off ramp, tx loop continuity, instrument temperature, and overload output current
- · automatic shut-off for open loop, high instrument temperature, and overload
- fuse and circuit breaker overload protection
- three sync modes:
- 1) built-in radio and antenna
- 2) cable sync output for direct wire link to receiver or remote radio
- 3) connectors for the crystal clock
- anodized aluminium case
- optional packframe
- unit weight 12.5kg; shipping weight 22kg
- padded wooden shipping box

Receiver

The receivers measure the rate of decay of the secondary field across several time channels. Three types of receivers are available with the PEM system: Analog Rx, Datalogger Rx, and Digital Rx. The Analog Rx and Datalogger Rx read eight fixed time channels while the Digital Rx, under software control, offers a variety of channel configurations. The Digital Rx has been used in the field for contract surveys since 1987.

Specifications: Digital PEM Receiver

operating temperature -40°C to 50°C

- optional packframe
- unit weight 15kg; shipping weight 25.5kg
- padded wooden shipping box

Hardware:

- 24v rechargeable gel cell battery supply
- two CMOS microprocessors (NSC800)
- alphanumeric keyboard
- 2 x 16 character cold weather display
- 16 x 40 character (256 x 128 pixels graphic) display
- 64k byte solid state memory storage
- cable, radio or crystal clock synchronization
- RS-232 serial I/O

Sampling process features:

- 16 bit A/D conversion
- digital recording of data in nano-tesla/sec
- rejection of atmospheric noise samples based on digital threshold detection
- · automatic gain control to optimize receiver signal to noise ratio

Menu driven operating software system offering the following functions:

• controls channel positions, channel widths, and number of channels using a basic slice of 4.5msec

- time bases: 10.89ms, 21.79ms, 8.88ms, 16.66ms, 33.33ms, 10ms, 20ms, and 30ms
- ramp time selectable in 4.5msec steps
- sample stacking from 512 to 65536
- scrolling routines for viewing data
- graphic display of decay curve and profile with various plotting options
- routines for memory management
- control of data transmission
- · provides information on instrument and operating status

Sync Equipment

There are three modes of synchronization available; radio, cable, and crystal clock. The radio sync signal can be transmitted through a booster antenna from either the PEM Transmitter internal radio or through a Remote Radio.

Specifications: Sync Cable

- 2 conductor, 24awg, Teflon coated
- · approx. 900m per aluminum spool with connectors

Specifications: Remote Radio

- operating frequency 27.12mhz
- 12v rechargeable gel cell battery supply
- fuse protection
- sync wire link to transmitter
- coaxial link to booster antenna
- anodized aluminium case
- unit weight 2.7kg

Specifications: Booster Antenna

- 8m, 4 section aluminium mast
- guide rope support
- ¼ wave CB fiberglass antenna
- range up to 2km
- coaxial connection to transmitter or remote radio

Specification: Crystal Clocks

- · heat stabilized crystals
- 24v rechargeable gel cell battery supply
- anodized aluminium case
- rx unit can be separate or housed in the receiver
- outlet for external supplementary battery supply

Surface PEM Receive Coil

The Surface PEM Receive Coil picks up the EM field to be measured by the receiver. The coil is mounted on a tripod that can be positioned to take readings of any component of the field.

Specifications: Surface PEM Receive Coil

- ferrite core antenna
- built-in preamplifier
- VLF filter
- 10khz bandwidth
- 23:1 amplifier gain
- two 9v transistor battery supply
- tripod adjustable to all planes
- unit weight 4.5kg; shipping weight 13.5kg
- padded wooden shipping box

Borehole PEM Z Component Probe

The Z component probe measures the axial component of the EM field. The Z component data is not affected by probe rotation so no correction are required.

Specifications: Borehole PEM Z Component Probe

- ferrite core
- built-in preamplifier
- dimensions: length 1.6m; dia 3.02cm (3.15cm for high pressure tested probes)
- internal rechargeable ni-cad battery supply
- replaceable heat shrink tubing for abrasion protection
- pressure tested for depths 1300m, 2000m, and 2800m
- packaged in padded cover and aluminium tube
- shipped in padded wooden box; total weight 17kg

Borehole PEM XY Component Probe

The XY probe measures two orthogonal components of the EM field perpendicular to the axis of Correction for probe rotation can be achieved by two methods. The standard approach is to use the measurement of the primary field from the "PP" channel, apply a "cleaning" algorithm to remove most secondary field contamination, and compare this to theoretical values. The amount of probe rotation

the hole.

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is then

calculated, and the correction can be made. The second method involves the use of an optional orientation device for the X-Y probe that uses dipmeters to calculate the probe rotation.

Specifications: Borehole PEM XY Component Probe

- ferrite core
- built-in preamplifier
- dimensions: length 2.01m; dia 3.02cm
- internal rechargeable ni-cad battery supply
- selection of X or Y coils by means of a switch box on surface or automatic switching with

Digital receiver

- replaceable heat shrink tubing for abrasion protection
- pressure tested for depths to 2800m
- packaged in padded cover and aluminium tube
- shipped in padded wooden box; total shipping weight 20kg

Orientation Tool

The orientation device is an optional attachment for the XY probe which measures the rotation of the probe using two dipmeters.

Specifications: Orientation Tool

- 2 axis tilt sensors
- sensitivity +/- 0.1 deg.
- operating range -89.5 to -10 deg.
- dimensions: length 0.94m; dia 28.5cm
- · packaged in padded cover and aluminium tube
- shipped in padded wooden box; total shipping weight 11kg

Borehole Equipment

To lower the probe down a drill hole requires a cable and spool, winch assembly frame and cable counter. Borehole surveys also require equipment to "dummy probe" the hole before doing the survey.

Specifications: Borehole Cable

- two conductor shielded cable
- kevlar strengthened
- · length are available upto 2600m on three sizes of spool
- shipped in wooden box

Specifications: Slip Ring

- attaches to side of borehole cable spool providing a connection to the receiver while allowing the spool to turn.
- VLF filter
- pure silver contacts

Specifications: Borehole Frame

• welded aluminium frame

- removable axle
- chain driven, 3 speed gear box
- hand or optional power winding
- hand brake and lock
- two sizes: standard for up to 1300m cable; larger for longer cables

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• shipped in wooden box

Specifications: Borehole Counter

- attaches to the drill hole casing
- calibrated in meters
- shipped in wooden box; total weight 13kg

Specifications: Dummy Probe and Cable

- solid steel or steel pipe
- same dimensions as borehole probe
- shear pin connection to dummy cable
- steel dummy cable on aluminium spool
- cable mounts on borehole frame
- various lengths to 2600m on 3 spool sizes.



7NW2011

Ministry of Northern Development and Mines

Declaration of Assessment Work Performed on Mining Land

Mining Act, Subsection 65(2) and 66(3), R.S.O. 1990

Transaction Number (office use)				
19960.00166				
Assessment Files Research Imaging				



subsections 65(2) and 66(3) of the Mining Act. Under section 8 of the Mining Act, is assessment work and correspond with the mining land holder. Questions about this tern Development and Mines, 6th Floor, 933 Ramsey Lake Road, Sudbury, Ontario,

SHERATON 900

fore recording a claim, use form 0240.

- Please type or print in ink.

1. Recorded holder(s) (Attach a list if necessary)

Name	Golden Knight Resources Inc.	Client Number	302803
Address	#1180 - 999 West Hastings Street	Telephone Number	(604) 689-3846
	Vancouver, B.C. V6C 2W2	Fax Number	(604) 689-3847
Name		Client Number	
Address		Telephone Number	
		Fax Number	

2. Type of work performed: Check (\checkmark) and report on only ONE of the following groups for this declaration.

Geotechnical: pro assays and work u			Physical: drilling, stripping, trenching and associated assays	Rehabilitation
Work Type				Office Use
Down HOLE AN	ud Surfa	CE PULSE F	M. Commodity	
			Total \$ Value Work Claimed	
Dates Work From: Performed	06 02 Day Month	98 To: 1 3 Year Day	୦୨ ୨୫ NTS Reference Month Year	ж О
Global Positioning System Da	ta (if available)	Township/Area SHEA	Mining Divisi	on Pacunine
		M or G-Plan Number	Resident Geol District	ogist Tramin

Please remember to: - obtain a work permit from the Ministry of Natural Resources as required;

- provide proper notice to surface rights holders before starting work;

- complete and attach a Statement of Costs, form 0212;

- provide a map showing contiguous mining lands that are linked for assigning work;

- include two copies of your technical report.

3. Person or companies who prepared the technical report (Attach a list if necessary)

Name HEARY ODWAR CRONE GEOPHYSICS AND Explore	Telephone Number 905 270 0096			
Address 3607 WOLFEddle ROAD, MI LSC IVB	Fax Number 905 270 3472			
Name		Telephone Number		
Address	RECEIVED	Fax Number		
Name APR 12 1993		Telephone Number		
Address	Fax Number			
4. Certification by Recorded Holder or A				

I, <u>Linda J. Sue</u>, do hereby certify that I have personal knowledge of the facts set forth in this (Print Name)

Declaration of Assessment Work having caused the work to be performed or witnessed the same during or after its completion and, to the best of my knowledge, the annexed report is true.

Signature of Recorded Holder or Agent	y, Golden Knight Resources Inc.	Date Mar. 30/99
Agent's Address #1180 - 999 West Hastings Street Vancouver, B.C., V6C 2W2	Telephone Number (604) 689-3846	Fax Number (604) 689-3847
Deemed gul	3 11/29	

5. Work to be recorded and distributed. Work can only be assigned to claims that are contiguous (adjoining) to the mining land where work was performed, at the time work was performed. A map showing the contiguous link must accompany this form.

	W1960. 00166						
work w mining column	Claim Number. Or if as done on other eligible land, show in this the location number d on the claim map.	Number of Claim Units. For other mining land, list hectares.	Value of work performed on this claim or other mining land.	Value of work applied to this claim.	Value of work assigned to other mining claims.	Bank. Value of work to be distributed at a future date.	
eg	TB 7827	16 ha	\$26,825	N/A	\$24,000	\$2,825	
eg	1234567	12	0	\$24,000	0	0	
eg	1234568	2	\$8,892	\$4,000	0	\$4,892	
1	P1223895	2	17431			17431	
2	P1223894	2	4405			4405	
3	P1223893	2	512			512	
4	P1218055	8	7805			7805	
5	P1218054	в	2853			2853	
6	P1218056	8	5515			5515	
7	P 1218052	9	783			783	
8							
9							
10							
11							
12							
13						· · · · ·	
14							
15							
		Column Totals	39304			39304	

I, <u>Linda J. Sue</u>, do hereby certify that the above work credits are eligible under subsection 7 (1) of the (Print Full Name)

Assessment Work Regulation 6/96 for assignment to contiguous claims or for application to the claim where the work was done.

Signature of Record Holder or Agent Authorized in Writing Date Mar. 30 M Assistant Secretary, Golden Knight Resources Inc.

6. Instructions for cutting back credits that are not approved.

Some of the credits claimed in this declaration may be cut back. Please check (\checkmark) in the boxes below to show how you wish to prioritize the deletion of credits:

1. Credits are to be cut back from the Bank first, followed by option 2 or 3 or 4 as indicated.

- \Box 2. Credits are to be cut back starting with the claims listed last, working backwards; or
- 3. Credits are to be cut back equally over all claims listed in this declaration; or
- 4. Credits are to be cut back as prioritized on the attached appendix or as follows (describe):

ADD 12 1000

GEOSCIENCE ASSESSMENT Note: If you have not indicated how your oredits are fire deleted, credits will be cut back from the Bank first, followed by option number 2 if necessary.

Received Stamp			 Deemed Approved Date	Date Notification Sent
	•		Date Approved	Total Value of Credit Approved
	2	1333	Approved for Recording by Mining	g Recorder (Signature)



Ministry of Northern Development and Mines Statement of Costs for Assessment Credit

Transaction Number (office use)
W9960.00166

Personal information collected on this form is obtained under the authority of subsection 6(1) of the Assessment Work Regulation 6/96. Under section 8 of the Mining Act, the information is a public record. This information will be used to review the assessment work and correspond with the mining land holder. Questions about this collection should be directed to the Chief Mining Recorder, Ministry of Northern Development and Mines, 6th Floor, 933 Ramsey Lake Road, Sudbury, Ontario, P3E 6B5.

Work Type	Units of Work Depending on the type of work, list the number of hours/days worked, metres of drilling, kilometres of grid line, number of samples, etc.	Cost Per Unit of Work	Total Cost	
GEOPHYSICS	22 days	1786.49/day	39303	
GEOPHYSICS SURFACE + Borchule)				
Associated Costs (e.g. supplies	s, mobilization and demobilization).			
Trans	portation Costs			
Food an	d Lodging Costs			
	Total Val	ue of Assessment Work	39303	

Calculations of Filing Discounts:

- 1. Work filed within two years of performance is claimed at 100% of the above Total Value of Assessment Work.
- 2. If work is filed after two years and up to five years after performance, it can only be claimed at 50% of the Total Value of Assessment Work. If this situation applies to your claims, use the calculation below:

TOTAL VALUE OF ASSESSMENT WORK	x 0.50 =	Total \$ value of work claimed.
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Note:

- Work older than 5 years is not eligible for credit.

- A recorded holder may be required to verify expenditures claimed in this statement of costs within 45 days of a request for verification and/or correction/clarification. If verification and/or correction/clarification is not made, the Minister may reject all or part of the assessment work submitted.

Certification verifying costs:

I, <u>Linda J. Sue</u>, do hereby certify, that the amounts shown are as accurate as may reasonably be (please print full name) determined and the costs were incurred while conducting assessment work on the lands indicated on the accompanying Declaration of Work form as <u>Assistant Secretary, Golden Knight Resources Inc.</u> I am authorized to make this (recorded holder, agent, or state company position with signing authority)

certification.

RECEIVED		
APR 1 2 (00)	Signature	Date Mar. 30/99
EOSCIENCE ASSESSMENT OFFICE	mon	<u> </u>

Ministry of Northern Development and Mines Ministère du Développement du Nord et des Mines

May 19, 1999

Linda J. Sue GOLDEN KNIGHT RESOURCES INC. 1180-999 WEST HASTINGS STREET VANCOUVER, B.C. V6C-2W2



Geoscience Assessment Office 933 Ramsey Lake Road 6th Floor Sudbury, Ontario P3E 6B5

Telephone: (888) 415-9846 Fax: (877) 670-1555

Visit our website at: www.gov.on.ca/MNDM/MINES/LANDS/mlsmnpge.htm

Dear Sir or Madam:

Submission Number: 2.19364

Status W9960.00166 Deemed Approval

Subject: Transaction Number(s):

We have reviewed your Assessment Work submission with the above noted Transaction Number(s). The attached summary page(s) indicate the results of the review. WE RECOMMEND YOU READ THIS SUMMARY FOR THE DETAILS PERTAINING TO YOUR ASSESSMENT WORK.

If the status for a transaction is a 45 Day Notice, the summary will outline the reasons for the notice, and any steps you can take to remedy deficiencies. The 90-day deemed approval provision, subsection 6(7) of the Assessment Work Regulation, will no longer be in effect for assessment work which has received a 45 Day Notice. Allowable changes to your credit distribution can be made by contacting the Geoscience Assessment Office within this 45 Day period, otherwise assessment credit will be cut back and distributed as outlined in Section #6 of the Declaration of Assessment work form.

Please note any revisions must be submitted in DUPLICATE to the Geoscience Assessment Office, by the response date on the summary.

If you have any questions regarding this correspondence, please contact Lucille Jerome by e-mail at lucille.jerome@ndm.gov.on.ca or by telephone at (705) 670-5858.

Yours sincerely,

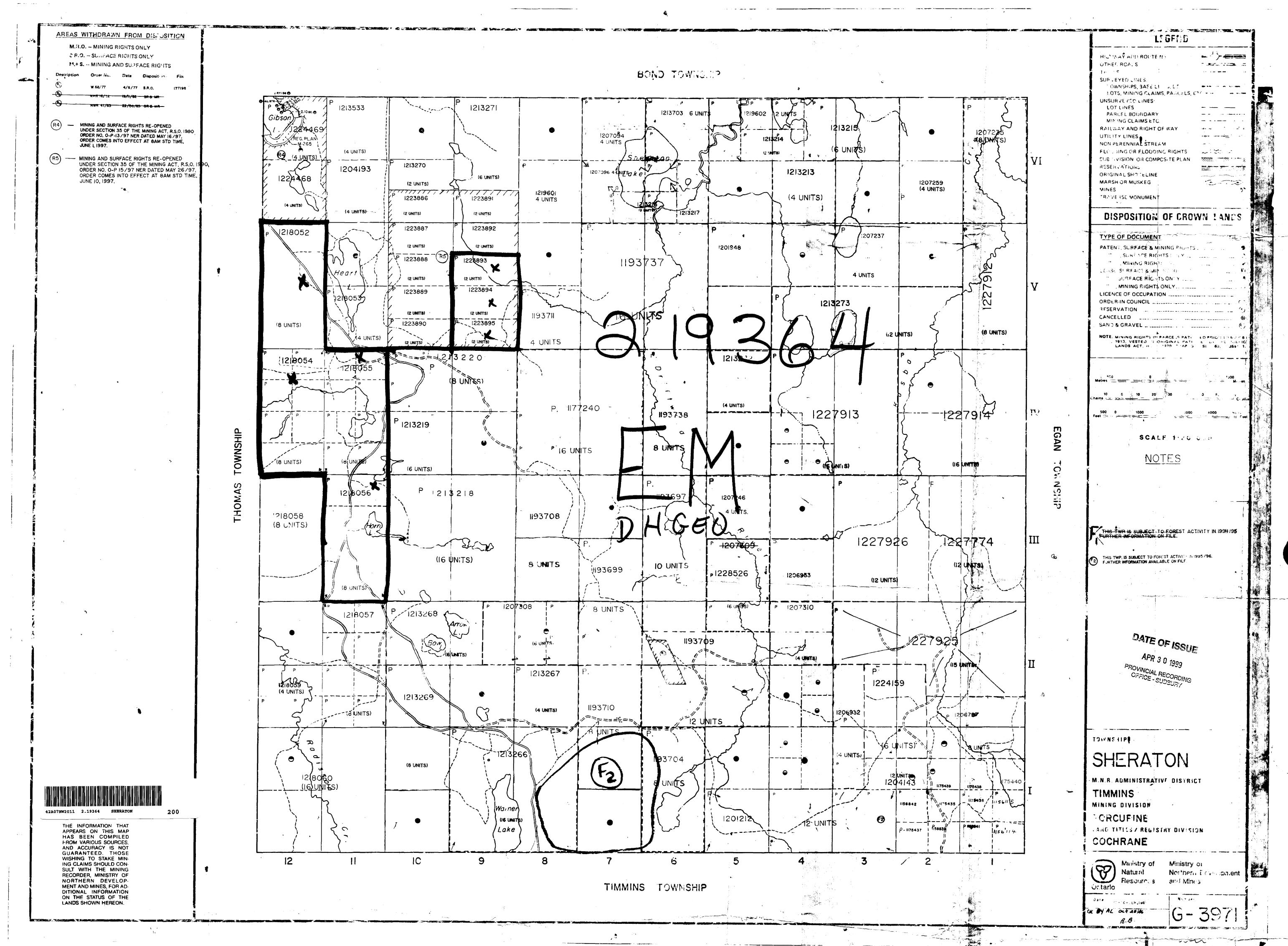
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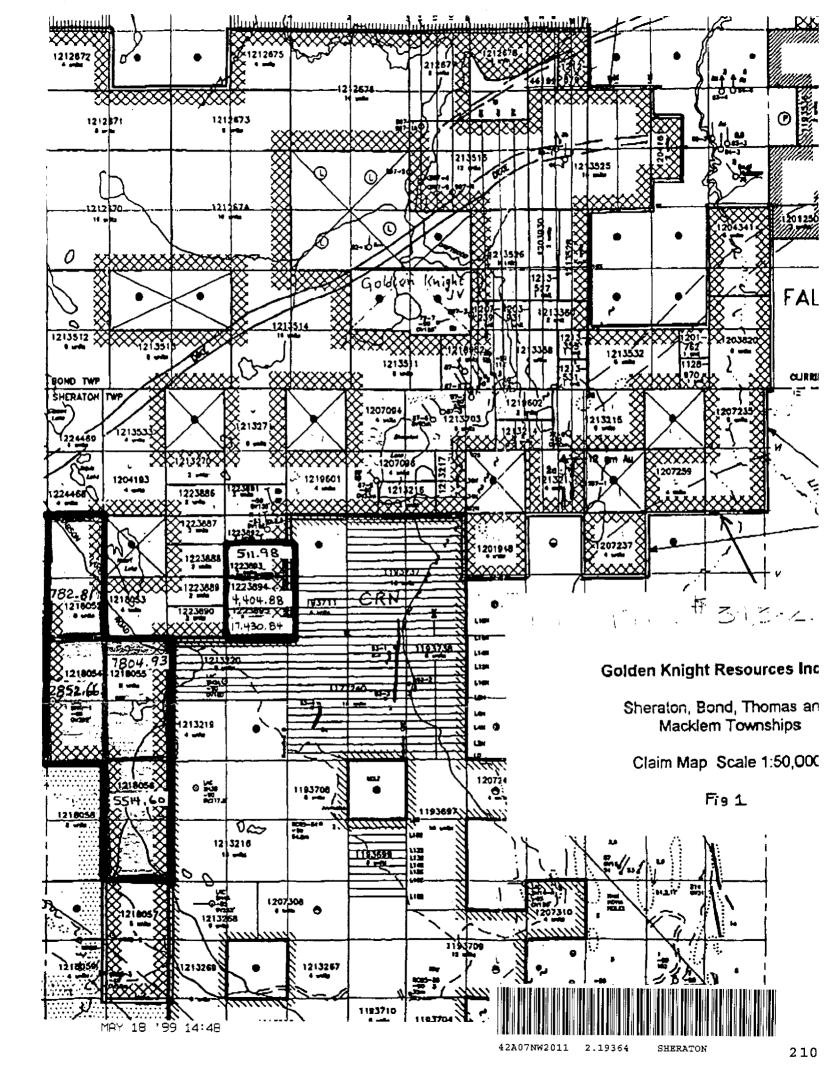
ORIGINAL SIGNED BY Blair Kite Supervisor, Geoscience Assessment Office Mining Lands Section

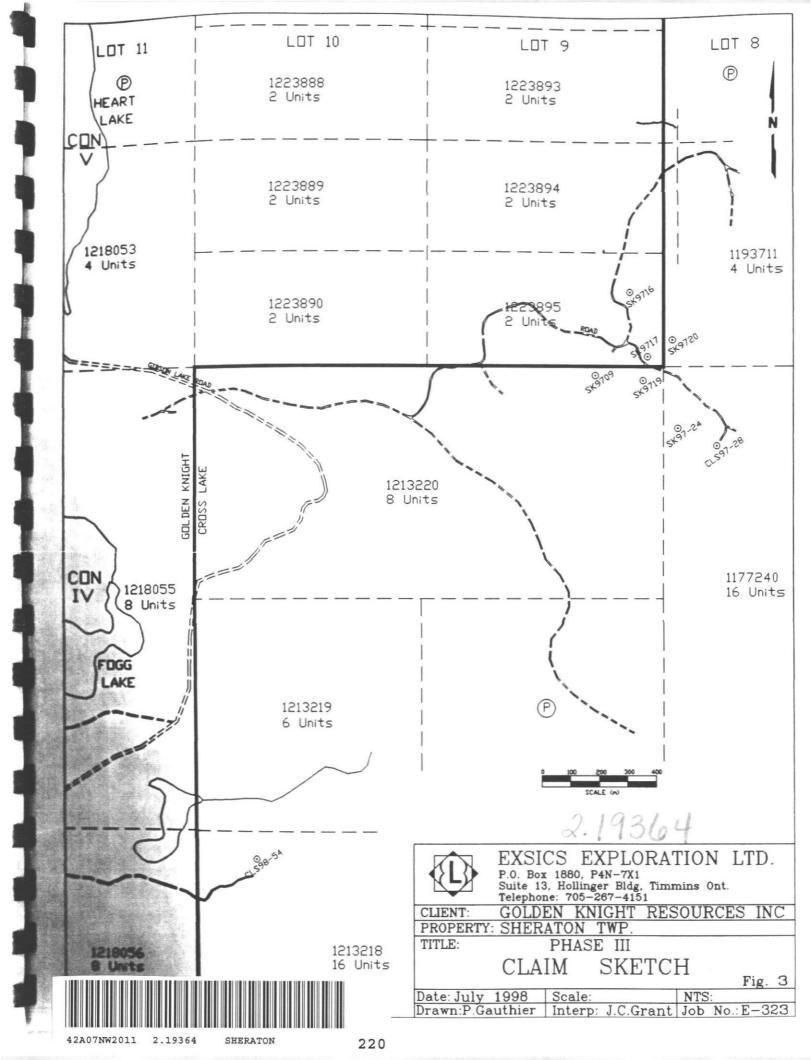
Correspondence ID: 13750 Copy for: Assessment Library

Work Report Assessment Results

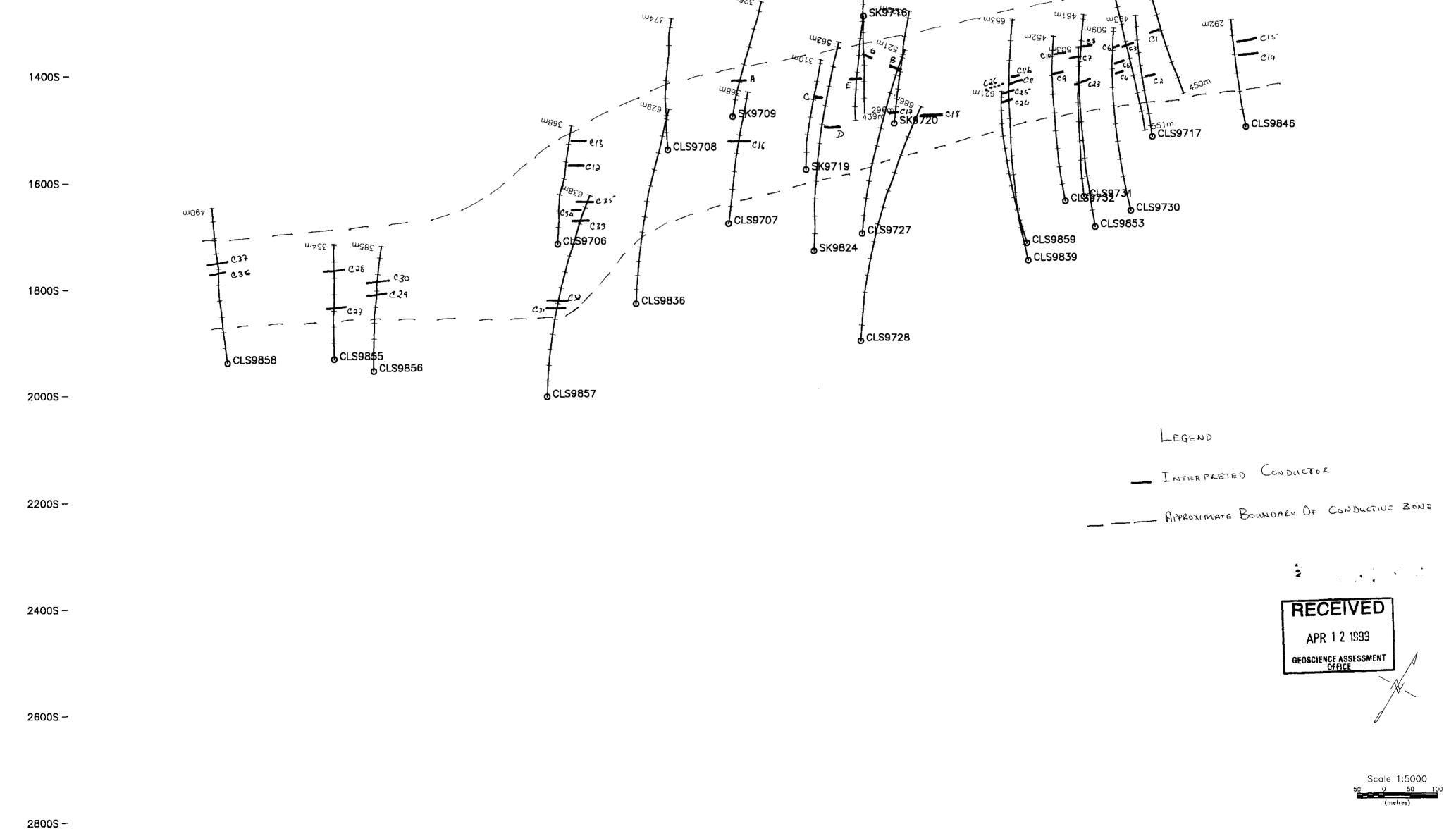
Date Correspond	ence Sent: May 19,	, 1999	Assessor:Lucille Jero	ome			
Transaction Number	First Claim Number	Township(s) / Area(s)	Status	Approval Date			
W9960.00166	P1223895	SHERATON	Deemed Approval	April 28, 1999			
Section: 18 Other DHGEO 14 Geophysical El							
Correspondence	to:		Recorded Holder(s) and/or Agent(s):			
Resident Geologis	st		Linda J. Sue				
South Porcupine,	ON		GOLDEN KNIGHT F VANCOUVER, B.C.	RESOURCES INC.			
Assessment Files	Library						
Sudbury, ON							





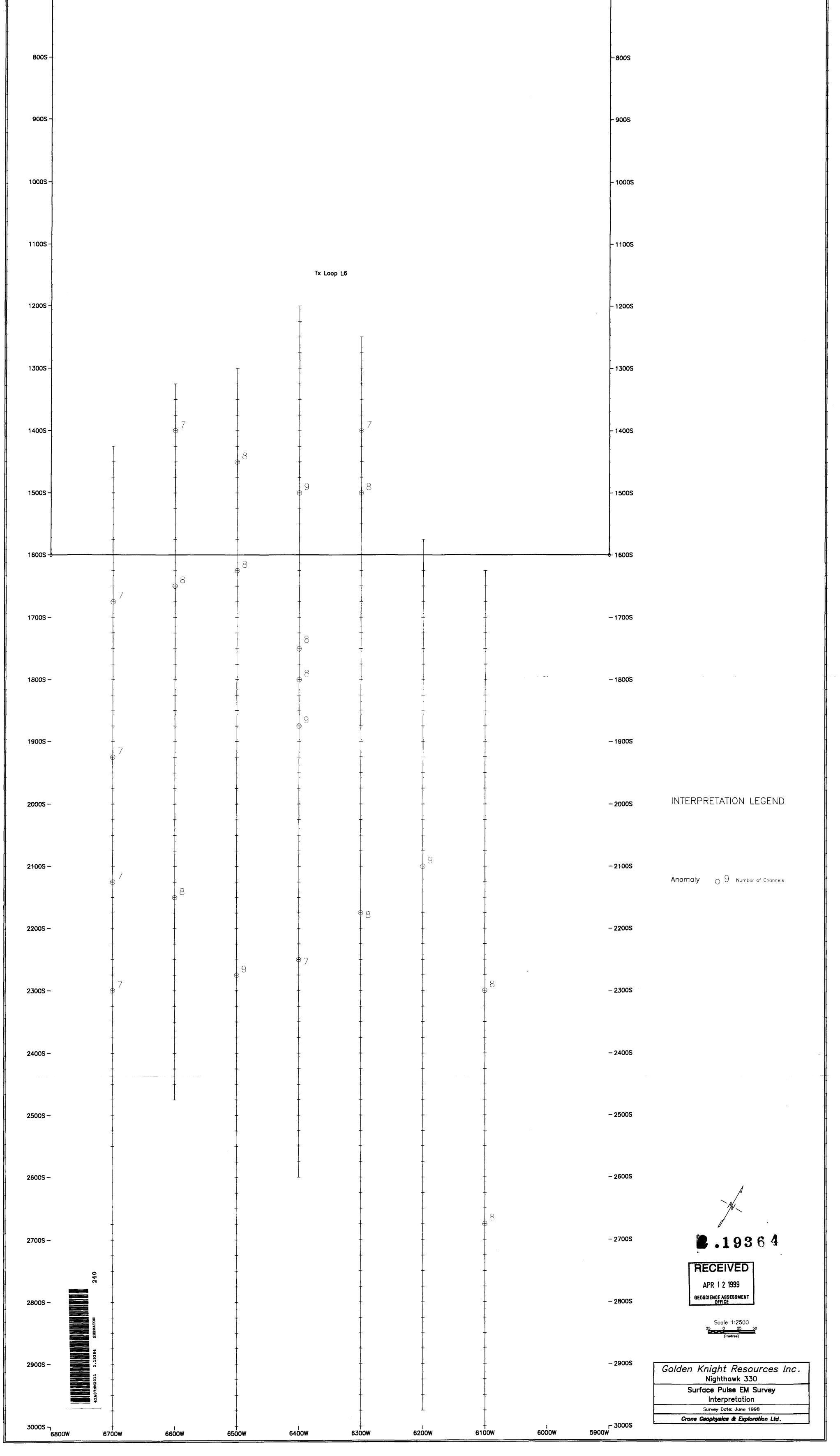


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