



2-39855

# Geophysical Survey Report

covering

## Borehole Pulse EM Surveys

over the

### West Timmins Project

for

### Pacific North West Capital Corp

during

June, July & August of 2007

*Report Jan 2008*

by

## CRONE GEOPHYSICS & EXPLORATION LTD.

---

Survey Area:	West Timmins, Ontario
Survey Type:	Borehole Pulse EM Survey
Survey Operator:	Valerie Simmons, Nick Scott, Rob Chapman, Dan Brazeau, Philip Small
Holes Surveyed:	WTM05-09, WTM05-11, WTM07-15, WTM07-16, WTM07-17, WTM07-18, WTM07-20, WTM07-21
Survey Period:	June 2 <sup>nd</sup> to August 13 <sup>th</sup> , 2007
Report Date:	January 2008
Submitted To:	Pacific North West Capital Corp

---

## **TABLE OF CONTENTS**

<b>1</b>	<b>INTRODUCTION</b>
<b>2</b>	<b>PERSONNEL</b>
<b>3</b>	<b>SURVEY METHOD &amp; EQUIPMENT</b>
<b>4</b>	<b>SURVEY PARAMETERS</b>
<b>5</b>	<b>PRODUCTION SUMMARY</b>
<b>6</b>	<b>COMMENTS</b>

## **Appendices**

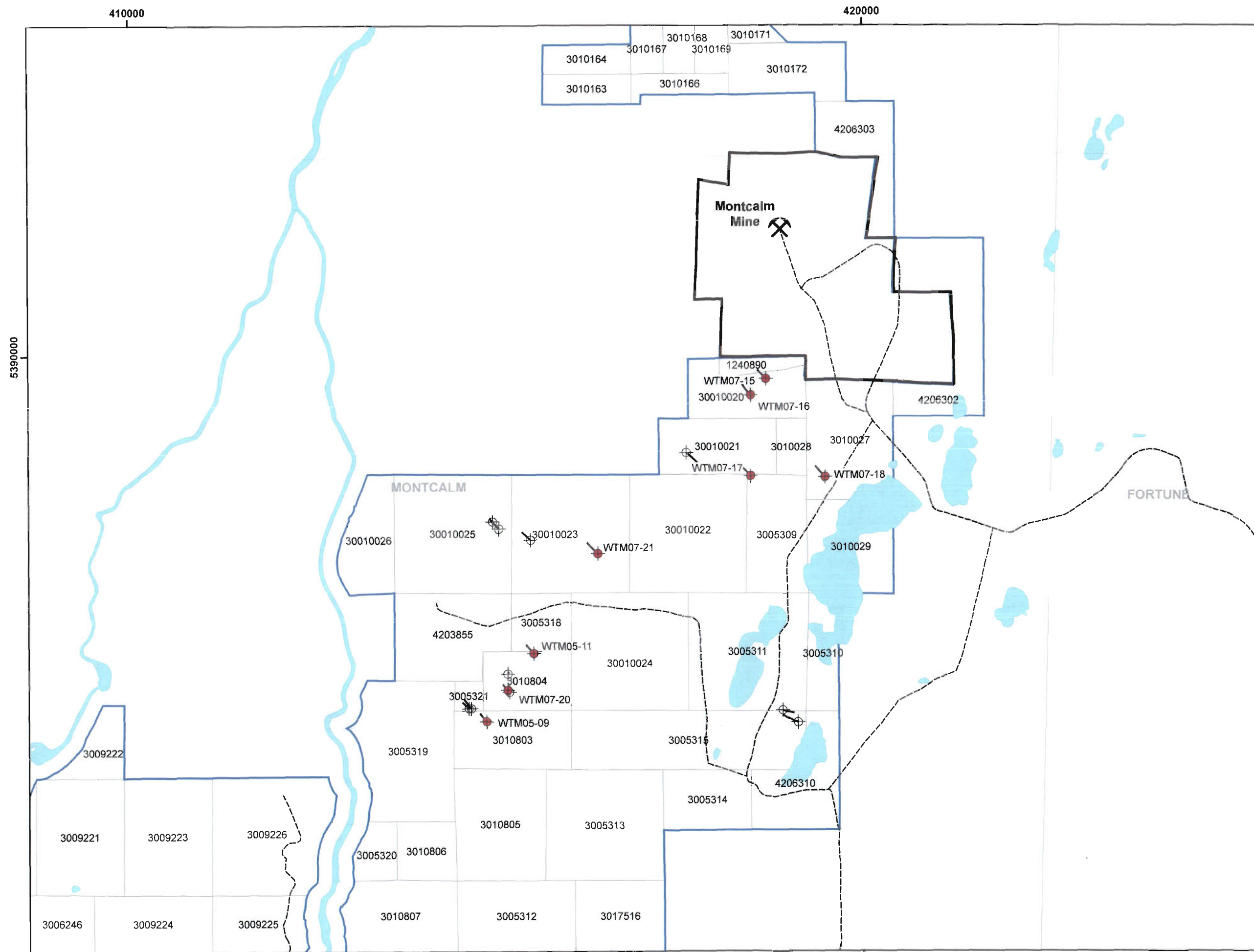
**Appendix A:** Plan and Section Maps

**Appendix B:** Linear (5-axis) Pulse EM Data Profiles

**Appendix C:** Lin-Log Pulse EM Data Profiles

**Appendix D:** Transmitter Loop Coordinates

APPENDIX A  
Plan and Section Maps

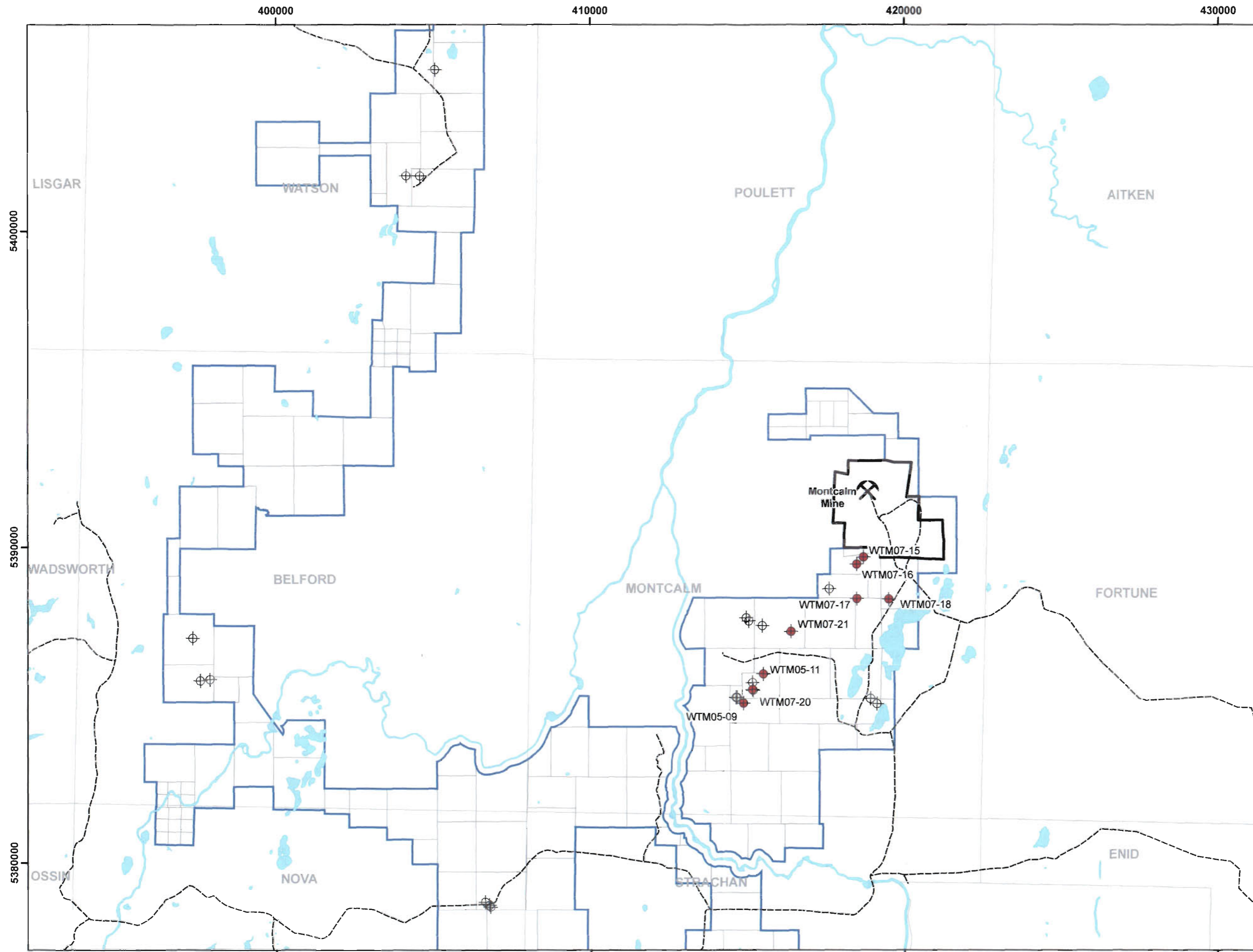


Author: Richard Zemoroz  
 Drawn by: Anik Charron  
 Date: November 27, 2007  
 Projection: UTM Zone 17, NAD83

- ◆ Surveyed Holes
- ⊕ Diamond Drill Holes
- DDH Traces
- ▭ Mining Lease

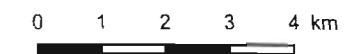
0 500 1,000 1,500 2,000 m

**Figure 2**  
**West Timmins Project**  
**Claim Map**  
**Borehole Pulse EM Surveys**  
**Location of Holes Surveyed**  
 Diamond Drill Holes  
 WTM05-09, WTM05-11,  
 WTM07-15, WTM07-16, WTM07-17,  
 WTM07-18, WTM07-20, WTM07-21



Author: Richard Zemoroz  
 Drawn by: Anik Charron  
 Date: November 27, 2007  
 Projection: UTM Zone 17, NAD83

- ◆ Surveyed Holes
- ⊕ Diamond Drill Holes
- ▭ Mining Lease



**Figure 1**  
**West Timmins Project**  
**Borehole Pulse EM Surveys**  
**Location of Holes Surveyed**  
 Diamond Drill Holes  
 WTM05-09, WTM05-11,  
 WTM07-15, WTM07-16, WTM07-17,  
 WTM07-18, WTM07-20, WTM07-21

## 1. INTRODUCTION

Crone Geophysics & Exploration Limited (Crone) was contracted by Pacific North West Capital Corp to conduct 3D Borehole Pulse Electromagnetic surveys on its West Timmins Project, Ontario. This report summarizes the geophysical work carried out.

A total of 8 holes were surveyed. The surveys were undertaken over 2 different time periods.

The appendices to this report contains plan and section maps, linear profile plots, linear logarithmic plots and information on transmitter loop position.

## 2. PERSONNEL

The following personnel were involved in the collection of the data and production of this report:

Survey Operators:	Valerie Simmons, Nick Scott, Dan Brazeau, Robert Chapman, Philip Small
Data Processing:	Neil Hughes
Report:	Neil Hughes

## 3. SURVEY METHOD & EQUIPMENT

Crone Pulse EM is a time domain electromagnetic method in which a precise pulse of current with a controlled linear shut off is transmitted through a large loop of wire on the ground and the rate of decay of the induced secondary field is measured across a series of time windows during the off-time. The electromagnetic field (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.

On this project, a 3D Borehole Pulse EM system was assembled in which an axial component (Z) probe and a cross component (XY) probe were used to measure the three components of the induced secondary field. The first pass with the 'Z' probe detects any in-hole or off-hole anomalies and gives information on size, conductivity, and distances to the edge of conductors. 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 rotation of the XY probe is corrected through the use of an orientation tool, so that positive X points in the direction of the hole azimuth and positive Y is horizontal and points to the left of an observer looking down the hole.

The equipment used on this project was a Crone Pulse EM Borehole system. This includes a 4.8 kW transmitter with a 220V voltage regulator which is powered by an 11 hp motor generator. The Crone Digital Receiver was used to collect the field data. The synchronization between the Transmitter and the Receiver was maintained by crystal clock or by direct cable link.

Data units are nT/s.

#### 4. SURVEY PARAMETERS

*Table I: Borehole Survey Coverage*

Hole	TX loop	Collar Location	Dip	Azimuth	Survey Interval	Comp
WTM05-09	WTM09	414865.9E, 5385043.2N	37	315	30 - 190	X, Y, Z
WTM05-11	WTM11	415507.5E, 5385964.5N	45	315	30 - 230	X, Y, Z
WTM07-15	WTM15	418684.8E, 5389679.0N	61	315	30 - 350	X, Y, Z
WTM07-15	WTM16	418684.8E, 5389679.0N	61	315	50 - 340	X, Y
WTM07-16	WTM16	418479.9E, 5389464.5N	60	320	30 - 430	X, Y, Z
WTM07-17	WTM17	418469.2E, 5388365.5N	54	315	90 - 360	X, Y, Z
WTM07-18	WTM18	419484.2E, 5388354.2N	55	315	60 - 350	X, Y, Z
WTM07-20	WTM20	415148.0E, 5385473.0N	78	0	50 - 240	X, Y, Z
WTM07-21	WTM21	416431.5E, 5387249.0N	46	311	30 - 300	X, Y, Z

*Table II: Borehole Loop Coverage*

Loop	Size (meters)	Location (Grid Coords.)	Ramp Time	Current (Amp)	Time Base (ms)
WTM09	~300 x 300	See appendix D	1.5 ms	20	16.667
WTM11	~300 x 315	See appendix D	1.5 ms	20	16.667
WTM15	~370 x 400	See appendix D	1.5 ms	12	16.667
WTM16	~500 x 400	See appendix D	1.5 ms	12	16.667
WTM17	~300 x 300	See appendix D	1.5 ms	12	16.667
WTM18	~320 x 320	See appendix D	1.5 ms	15	16.667
WTM20	~300 x 250	See appendix D	1.5 ms	12	16.667
WTM21	~300 x 300	See appendix D	1.5 ms	20	16.667

Coordinates are given in NAD 83 Zone 17 N.

*Table III: Channel Configuration*

Channel	Start	Finish	Channel	Start	Finish
PP	-2.000e-04	-1.000e-04			
1	4.800e-05	6.400e-05	2	6.400e-05	8.400e-05
3	8.400e-05	1.120e-04	4	1.120e-04	1.520e-04
5	1.520e-04	2.040e-04	6	2.040e-04	2.680e-04
7	2.680e-04	3.600e-04	8	3.600e-04	4.800e-04
9	4.800e-04	6.400e-04	10	6.400e-04	8.480e-04
11	8.480e-04	1.128e-03	12	1.128e-03	1.496e-03

13	1.496e-03	1.992e-03	14	1.992e-03	2.644e-03
15	2.644e-03	3.512e-03	16	3.512e-03	4.664e-03
17	4.664e-03	6.192e-03	18	6.192e-03	8.220e-03
19	8.220e-03	1.092e-02	20	1.092e-02	1.440e-02

## 5. PRODUCTION SUMMARY

Table IV: *Production Summary*

Date	Activity	Description
<b>June 2007</b>		
2	SURVEY	Dummy hole WTM07-18; lay tx loop
3	SURVEY	Loop: WTM18, Hole: WTM07-18, Component: Z
4	WEATHER	
5	SURVEY	Loop: WTM18, Hole: WTM07-18, Component: XY
6	SURVEY	Move equipment to WTM07-15; dummy hole
7 - 16	OFF SITE	
17	MOB	
18	STANDBY	
19	STANDBY	
<b>July 2007</b>		
16	MOB	
17	MOB	
18	SURVEY	Access site; dummy holes
19	SURVEY	Site orientation and safety meeting; dummy holes
20	OFFSITE	
21	OFFSITE	
22	OFFSITE	
23	SURVEY	Loop: WTM15, Hole: WTM07-15, Component: XYZ
24	SURVEY	Loop: WTM16, Hole: WTM07-16, Component: Z
25	SURVEY	Loop: WTM16, Hole: WTM07-16, Component: XY
26	SURVEY	Loop: WTM16, Hole: WTM07-15, Component: XY Loop: WTM17, Hole: WTM07-17, Component: Z
27	SURVEY	Loop: WTM17, Hole: WTM07-17, Component: XY
28	SURVEY	Move equipment to WTM07-20
29	SURVEY	Loop: WTM20, Hole: WTM07-20, Component: XYZ
30	SURVEY	Move equipment to WTM07-21; lay tx loop WTM21
31	SURVEY	Loop: WTM21, Hole: WTM07-21, Component: Z
<b>August 2007</b>		
1	SURVEY	Loop: WTM21, Hole: WTM07-21, Component: XY
2	SURVEY	Pick up loop WTM21; locate holes
3	OFFSITE	
4	SURVEY	Move equipment to WTM05-09; pick up remaining loop wire
5	SURVEY	Loop: WTM9, Hole: WTM05-09, Component: XYZ
6	SURVEY	Dummy WTM05-14; blocked. Move equipment to WTM05-11
7	SURVEY	Lay loop for WTM05-11
8	SURVEY	Loop: WTM11, Hole: WTM05-11, Component: XYZ
9	SURVEY	Pick up all loop wire; pack equipment; leave site
10	OFFSITE	
11	OFFSITE	
12	DEMOB	
13	DEMOB	

6. COMMENTS

XY surveys in hole WTM07-15 using loop WTM15 were unable to be completed due to equipment malfunction. The XY components were surveyed for the complete hole using loop WTM16 after completing surveys in hole WTM07-16 rather than putting loop out WTM15 again.

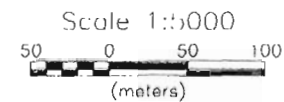
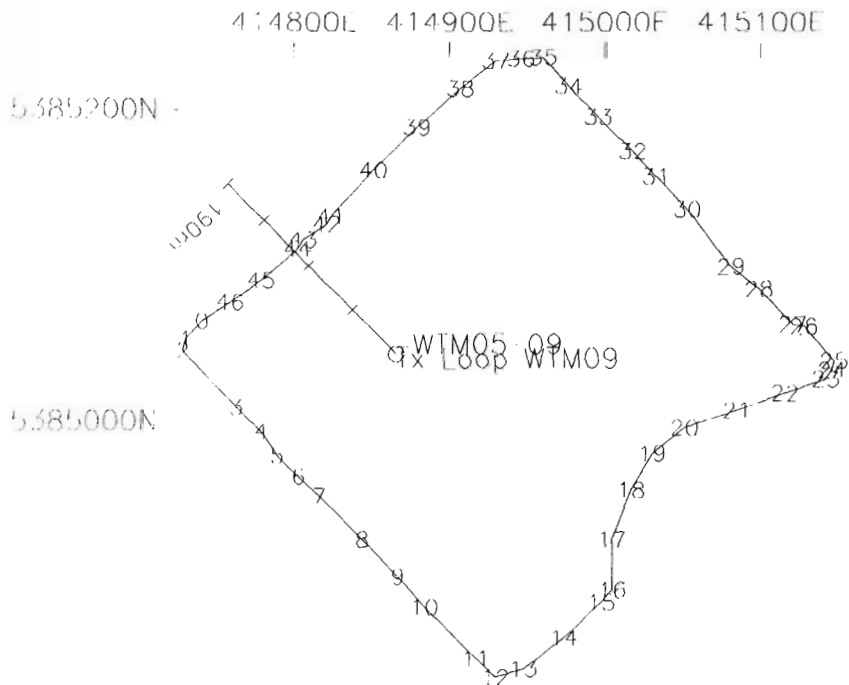
Respectfully submitted,



Neil Hughes  
Crone Geophysics & Exploration Ltd.  
January 2008



**Appendix A:**  
Plan & Section Maps



*Pacific North West Capital  
West Timmins Project*

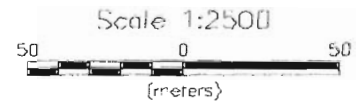
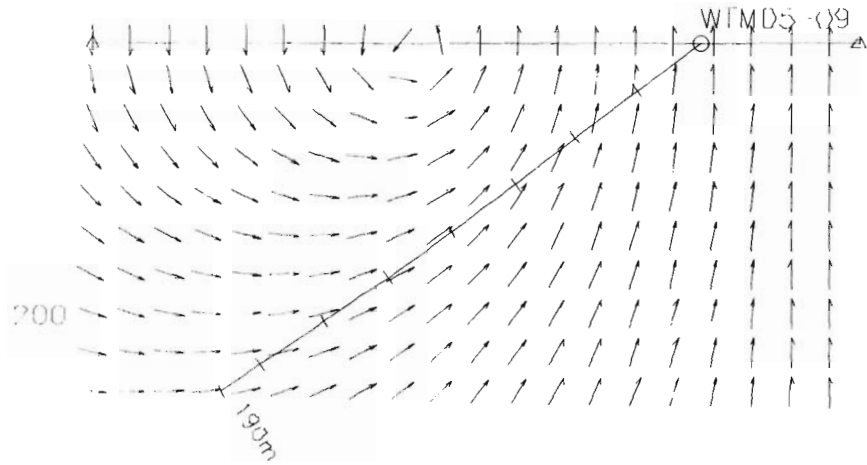
*3-D Borehole Pulse EM Survey  
Borehole & Loop Location Map*

*Hole: WTM05-09  
Survey Date: Aug 5, 2007*

*Crone Geophysics & Exploration Ltd.*

[414730.0, 5385184.0]

[414900.0, 5385005.0]

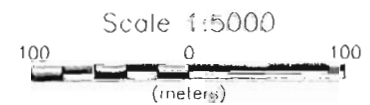
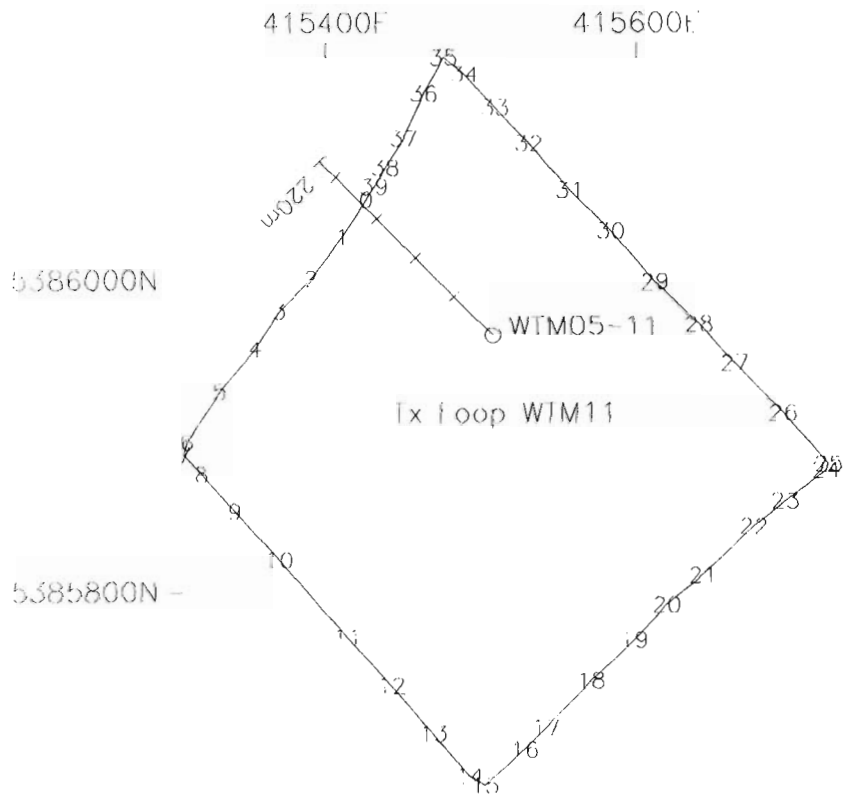


*Pacific North West Capital*  
West Jimmins Project

3-D Borehole Pulse EM Survey  
Hole Section with Primary Field

Hole: WTM05-09, Loop: WTM09  
Survey Date: Aug 5, 2007

*Crone Geophysics & Exploration Ltd.*



*Pacific North West Capital*  
West Timmins Project

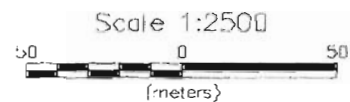
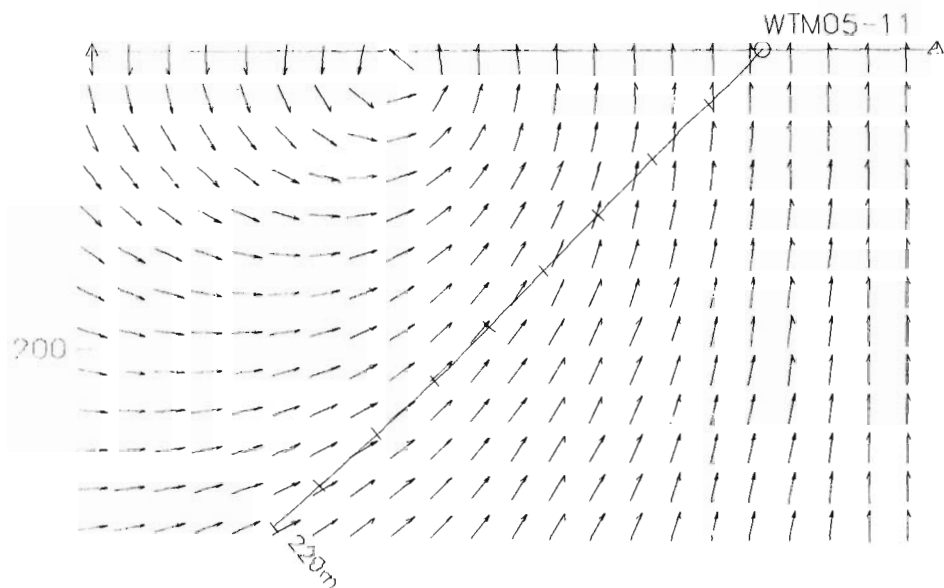
3-D Borehole Pulse EM Survey  
Borehole & Loop Location Map

Hole: WTM05-11  
Survey Date: Aug 8, 2007

Crone Geophysics & Exploration Ltd.

(415359.0, 5386122.0)

(415541.0, 5385920.0)

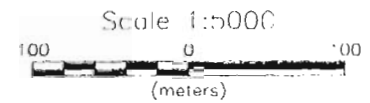
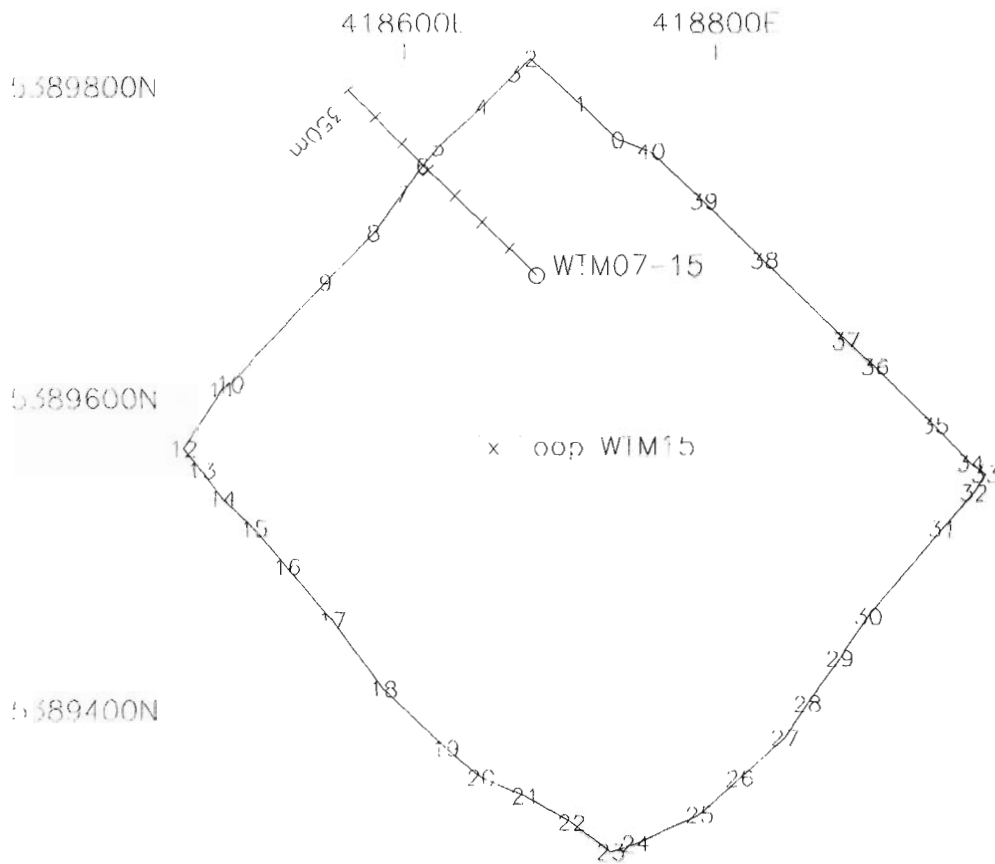


*Pacific North West Capital*  
West Timmins Project

3-D Borehole Pulse EM Survey  
Hole Section with Primary Field

Hole: WTM05-11, Loop: WTM11  
Survey Date: Aug 8, 2007

*Crane Geophysics & Exploration Ltd.*

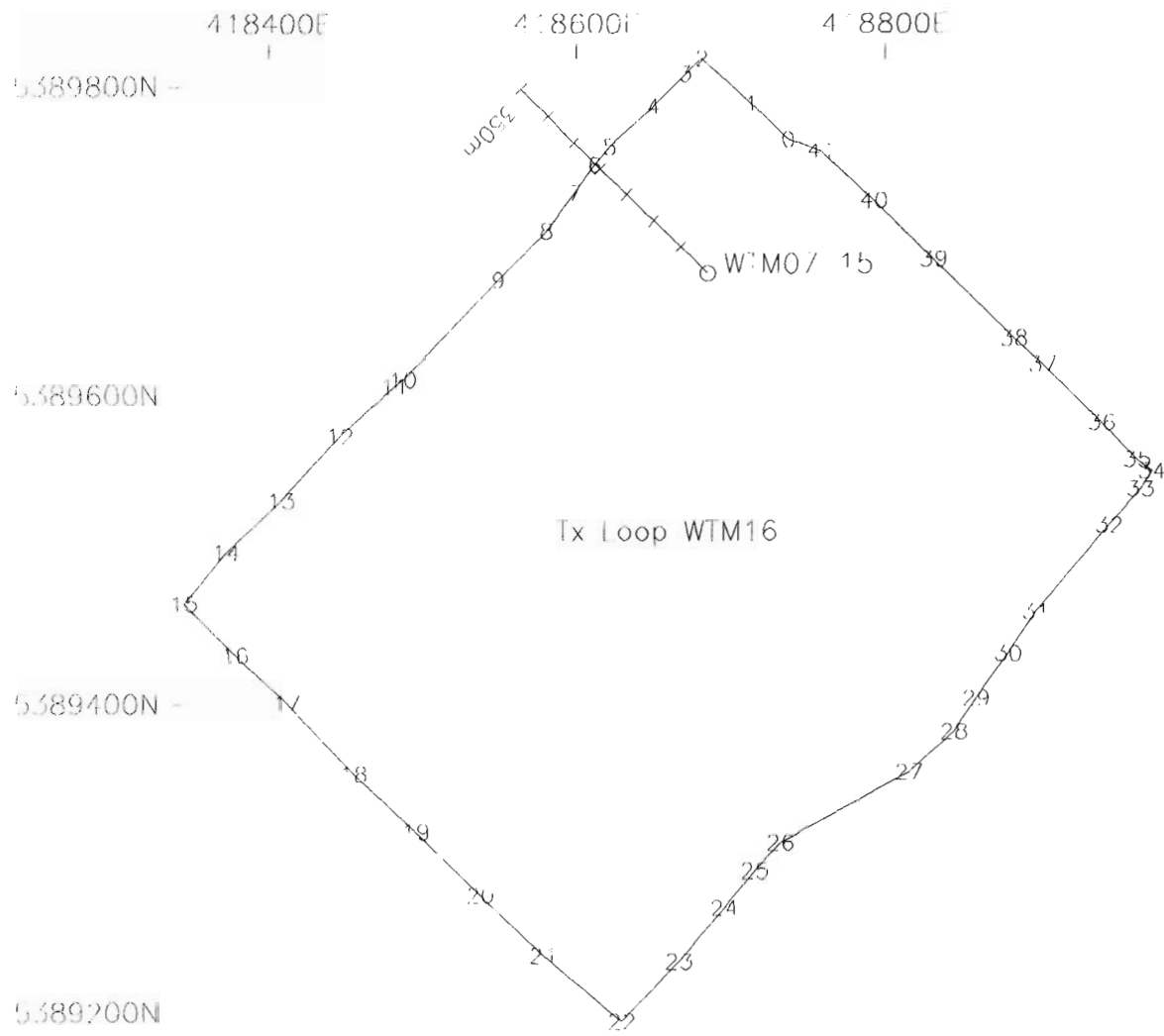


*Pacific North West Capital  
West Timmins Project*

3-D Borehole Pulse EM Survey  
Borehole & Loop Location Map

Hole: WTM07-15  
Survey Date: Jul 23, 2007

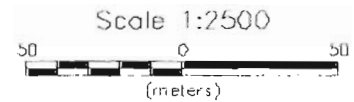
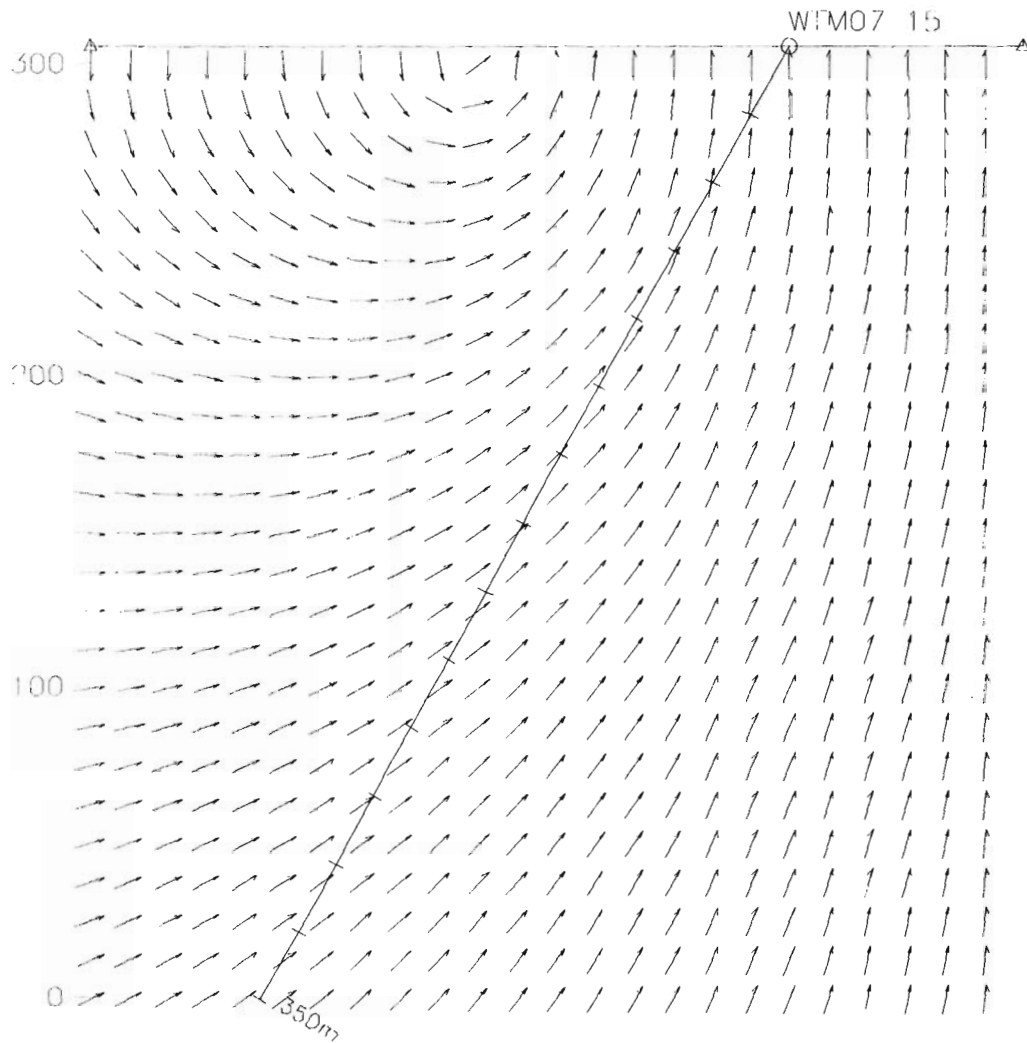
*Crone Geophysics & Exploration Ltd.*



<i>Pacific North West Capital</i>
West Timmins Project
3-D Borehole Pulse EM Survey Borehole & Loop Location Map
Hole: WTM07-15 Survey Date: Jul 26, 2007
<i>Crone Geophysics &amp; Exploration Ltd.</i>

(418526.0, 5389838.0)

(418736.0, 5389624.0)



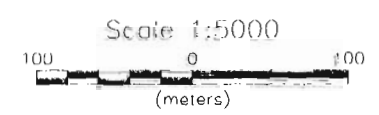
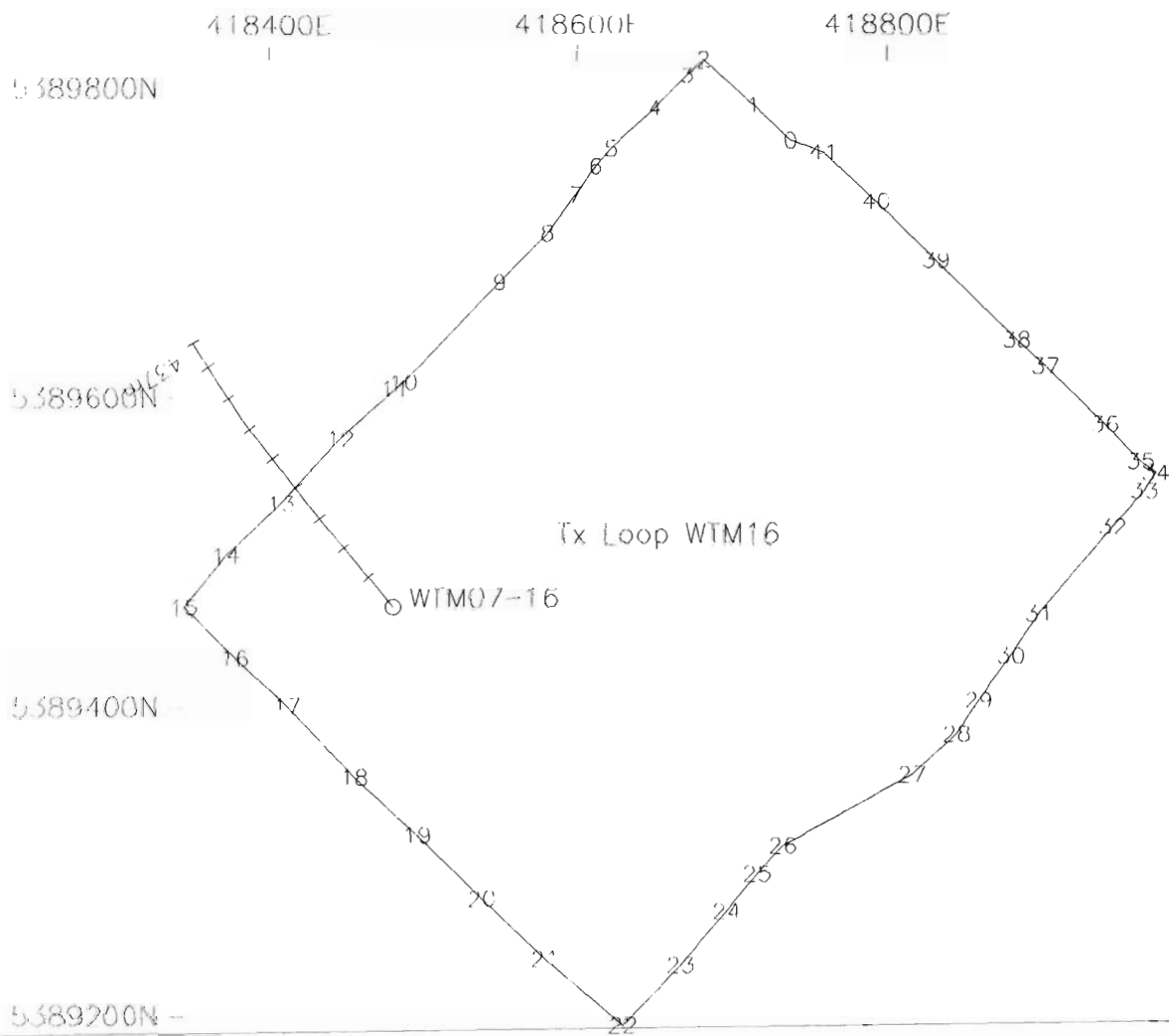
Pacific North West Capital  
West Timmins Project

3-D Borehole Pulse EM Survey  
Hole Section with Primary Field

Hole: WTM07-15, Loop: WTM15  
Survey Date: Jul 23, 2007

Crone Geophysics & Exploration Ltd.





*Pacific North West Capital*  
 West Timmins Project

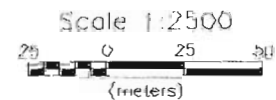
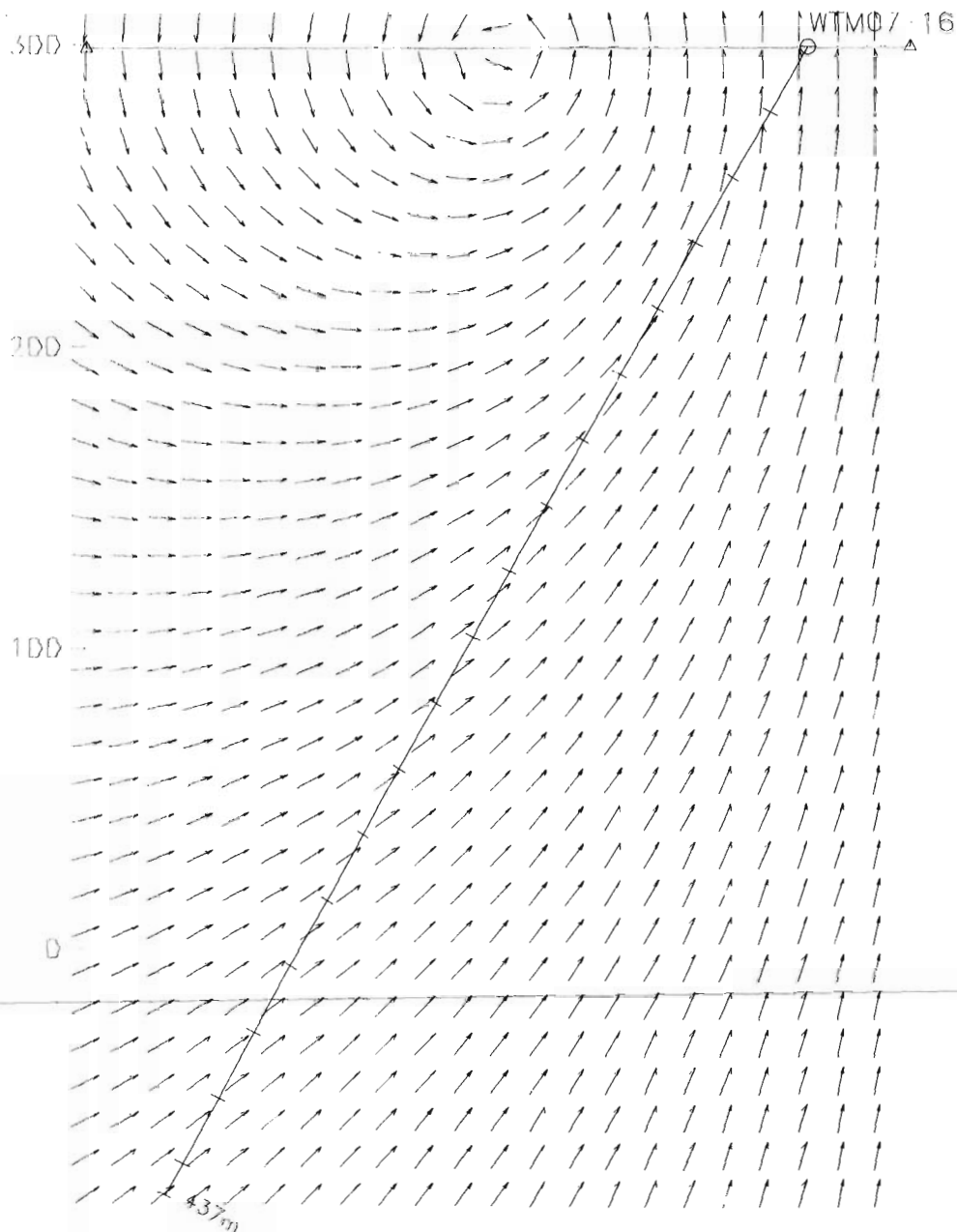
3-D Borehole Pulse EM Survey  
 Borehole & Loop Location Map

Hole: WTM07-16  
 Survey Date: Jul 24, 2007

*Crone Geophysics & Exploration Ltd.*

(418335.0, 5389656.0)

(418501.0, 5389438.0)

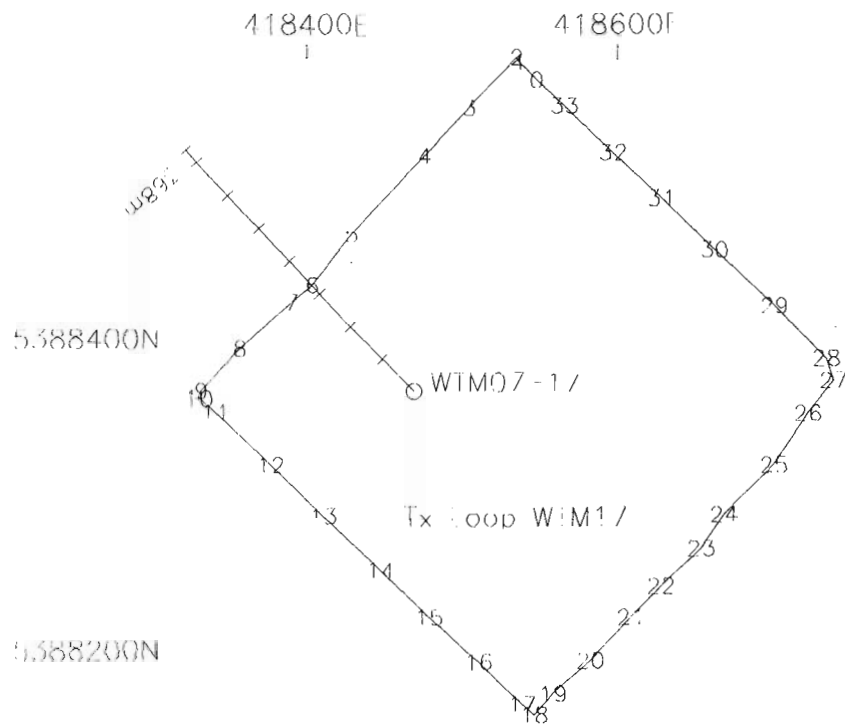


*Pacific North West Capital*  
West Timmins Project

3-D Borehole Pulse EM Survey  
Hole Section with Primary Field

Hole: WTM07-16, Loop: WTM16  
Survey Date Jul 24, 2007

*Crone Geophysics & Exploration Ltd.*



*Pacific North West Capital  
West Timmins Project*

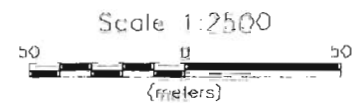
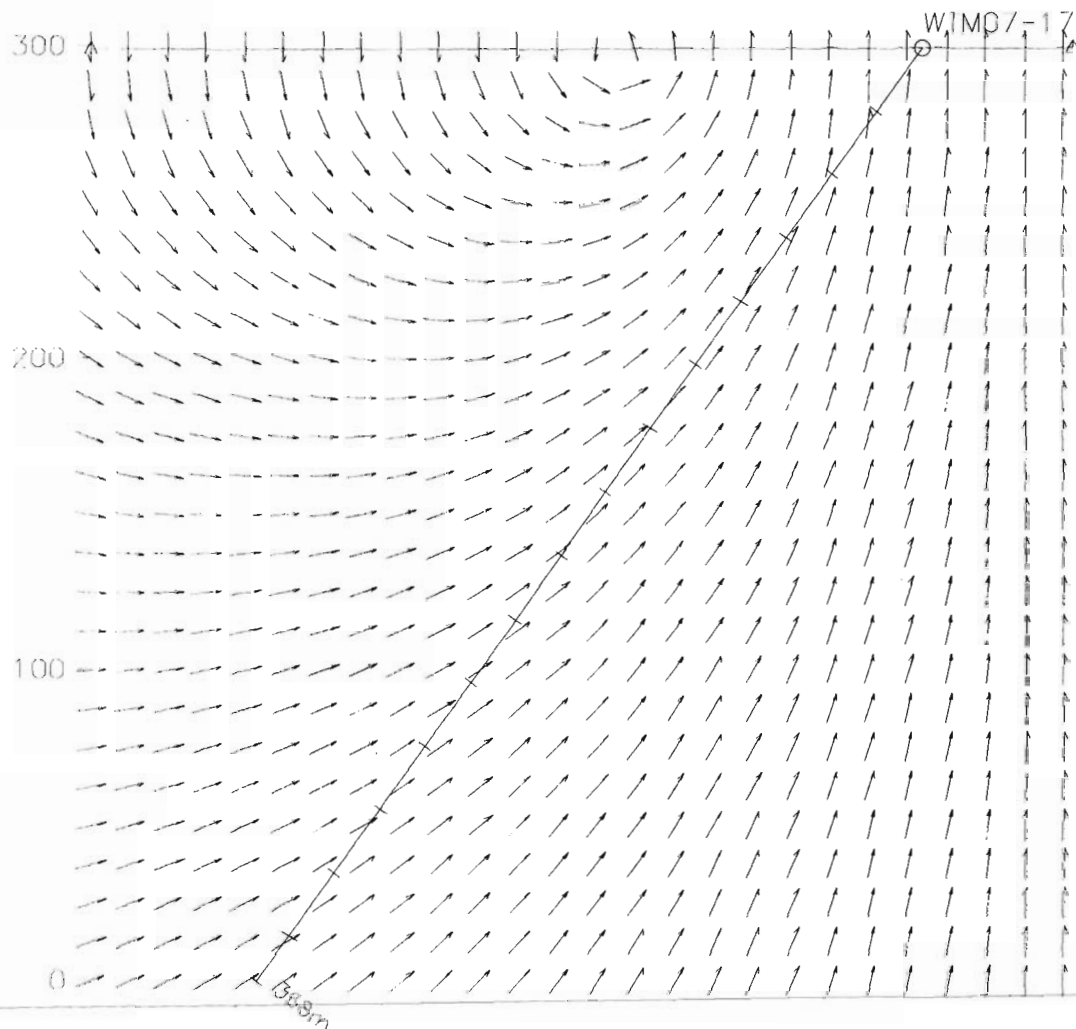
*3-D Borehole Pulse EM Survey  
Borehole & Loop Location Map*

*Hole: WIM07-17  
Survey Date: Jul 26, 2007*

*Crone Geophysics & Exploration Ltd.*

[418286.0, 5388560.0]

(418501.0, 5388329.0)



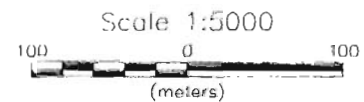
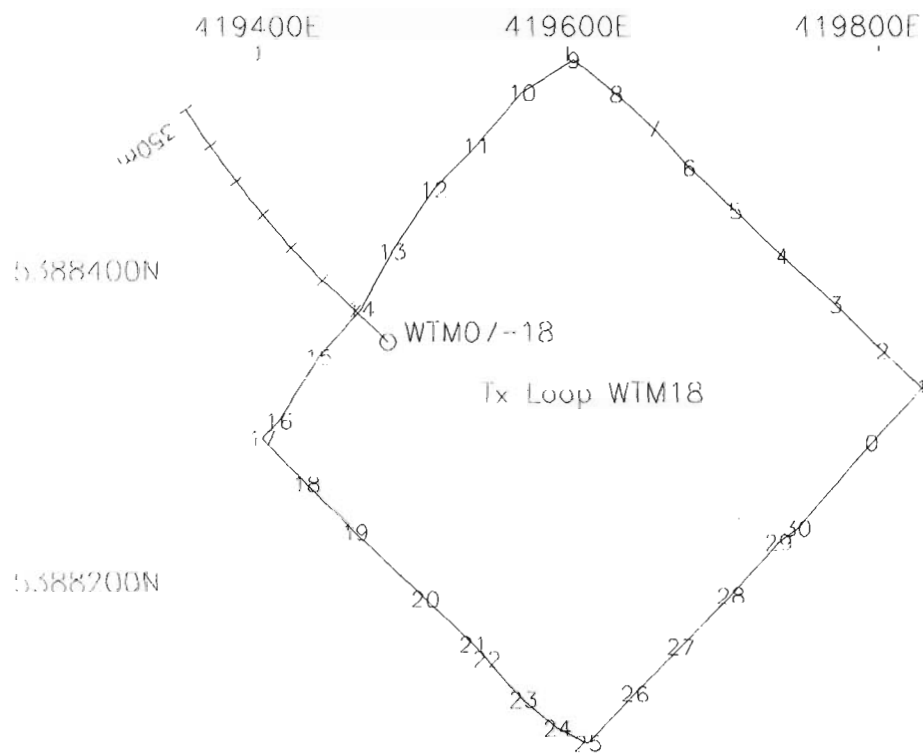
*Pacific North West Capital*

West Timmins Project

3-D Borehole Pulse EM Survey  
Hole Section with Primary Field

Hole: WTM07-17, Loop: WTM17  
Survey Date: Jul 26, 2007

*Crone Geophysics & Exploration Ltd.*



*Pacific North West Capital*  
 West Timmins Project

3-D Borehole Pulse EM Survey  
 Borehole & Loop Location Map

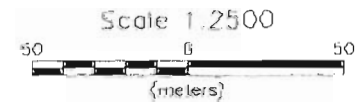
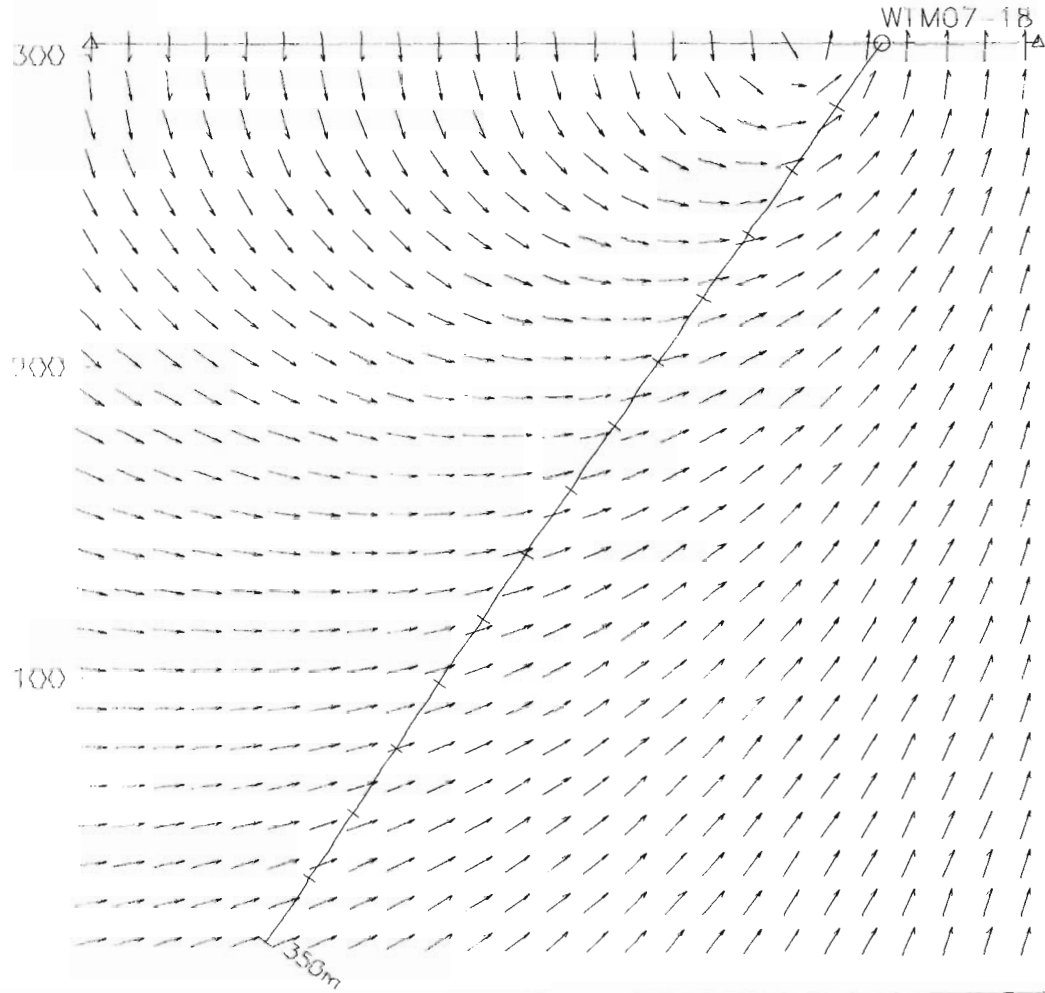
Hole: WTM07-18

Survey Date: Jun 3/5, 2007

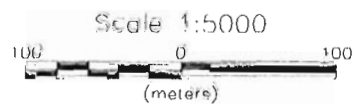
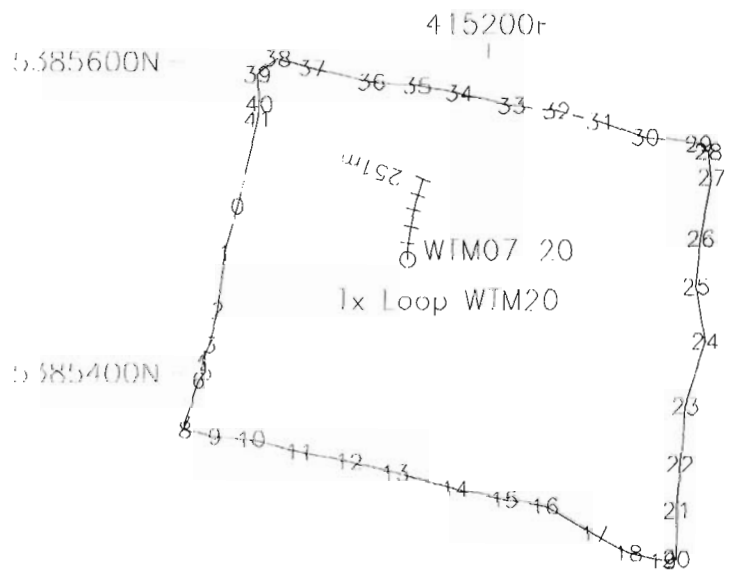
*Crone Geophysics & Exploration Ltd.*

(419512.0, 5388541.0)

(419515.0, 5388314.0)



Pacific North West Capital  
West Timmins Project  
3-D Borehole Pulse EM Survey  
Hole Section with Primary Field  
Hole: WTM07-18, Loop: WTM18  
Survey Date: Jun 3/5, 2007  
Crone Geophysics & Exploration Ltd.



*Pacific North West Capital*  
 West Timmins Project

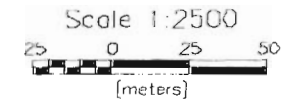
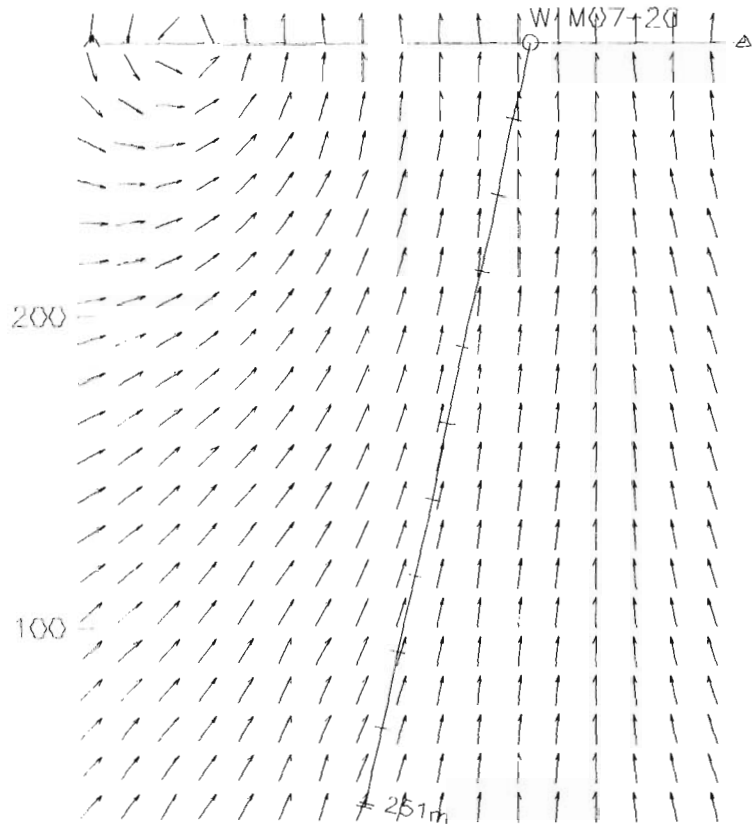
3-D Borehole Pulse EM Survey  
 Borehole & Loop Location Map

Hole: WTM07-20  
 Survey Date: Jul 29, 2007

*Crone Geophysics & Exploration Ltd.*

{415176.0,5385611 0}

{415131.0,5385406 0}



*Pacific North West Capital*

*West Timmins Project*

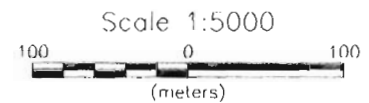
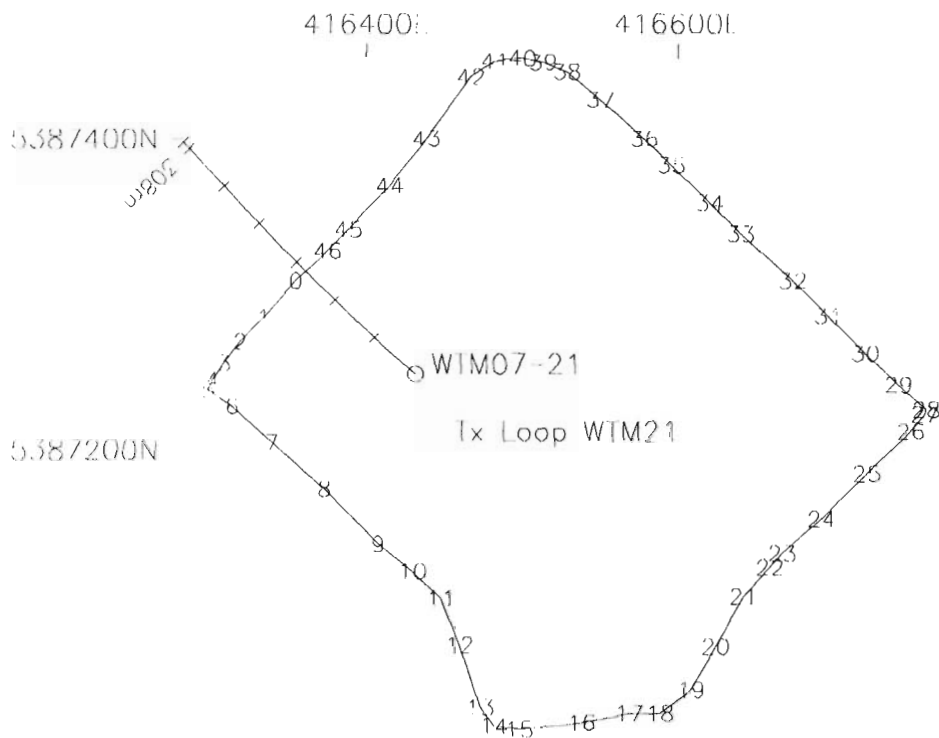
*3-D Borehole Pulse EM Survey  
Hole Section with Primary Field*

*Hole: WTM07-20, Loop: WTM20*

*Survey Date Jul 29, 2007*

*Crane Geophysics & Exploration Ltd.*





*Pacific North West Capital*  
 West Timmins Project

3-D Borehole Pulse EM Survey  
 Borehole & Loop Location Map

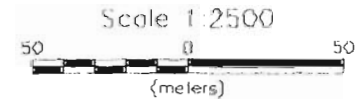
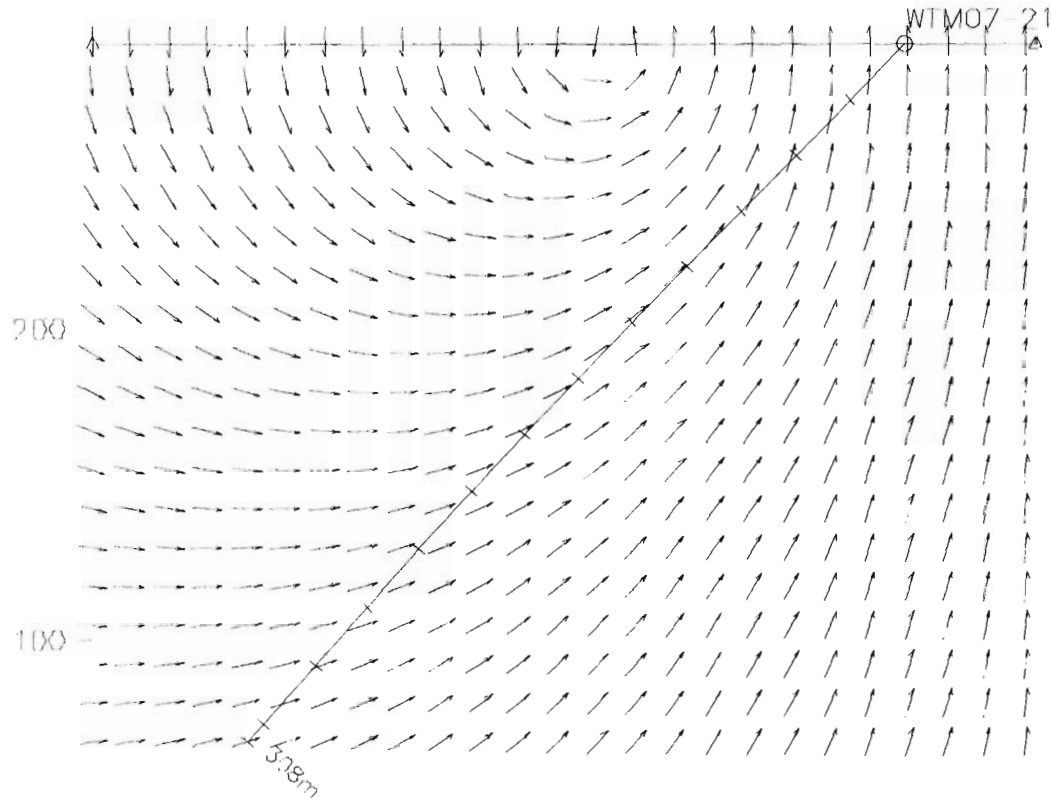
Hole: WIM07-21

Survey Date: Jul 31, 2007

*Crone Geophysics & Exploration Ltd.*

(416250 0,5387437.0)

(416462 0,5387220.0)

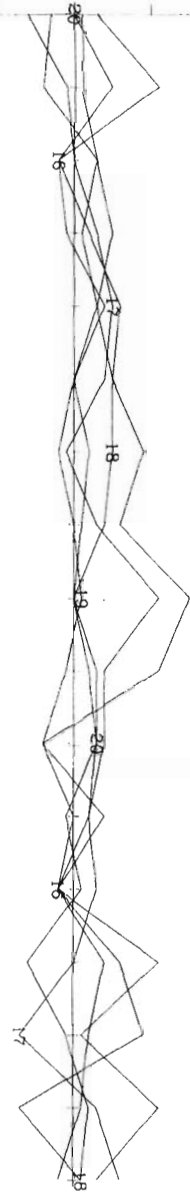


<i>Pacific North West Capital</i> West Timmins Project
3-D Borehole Pulse EM Survey Hole Section with Primary Field
Hole: WTM07-21, Loop: WTM21 Survey Date: Jul 31, 2007
<i>Crane Geophysics &amp; Exploration Ltd.</i>

**Appendix B:**  
Linear (5-axis) Pulse EM Data Profiles

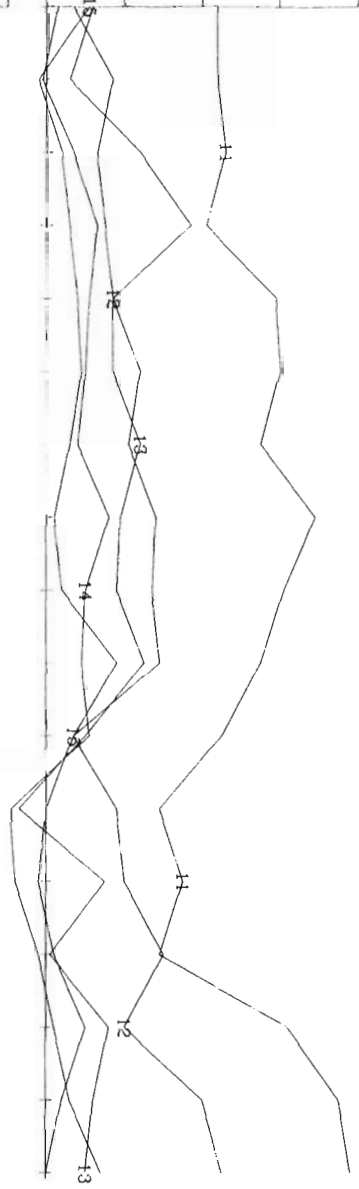
Channels 16 - 20  
(nT/sec)

-2.  
-1.  
0.  
1.



Channels 11 - 15  
(nT/sec)

0.  
2.  
4.  
6.  
8.



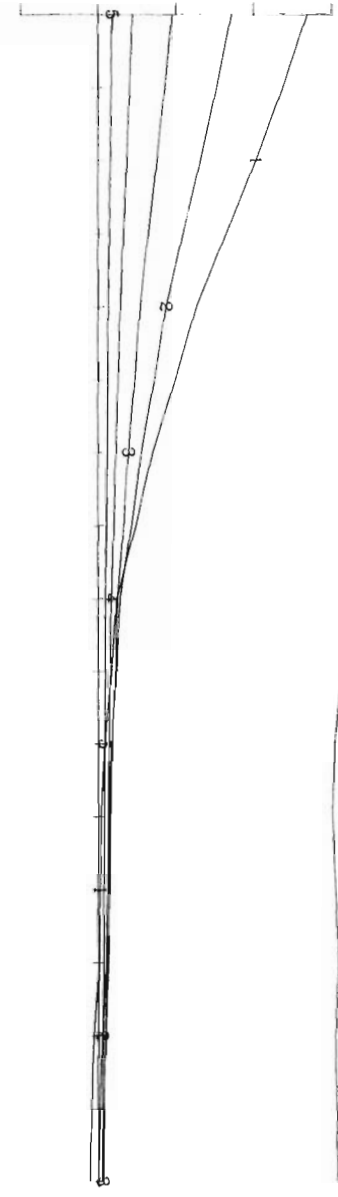
Channels 6 - 10  
(nT/sec)

0.  
100.  
200.  
300.  
400.  
-5000.



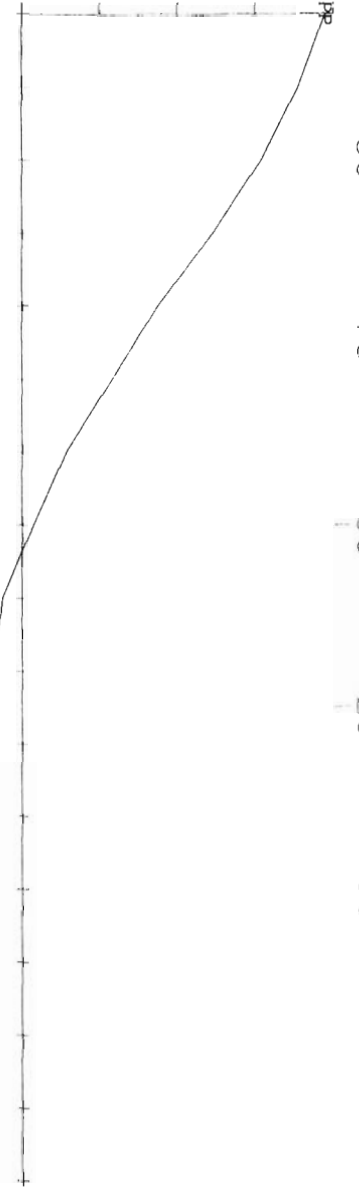
Channels 1 - 5  
(nT/sec)

0.  
5000.  
10000.  
15000.



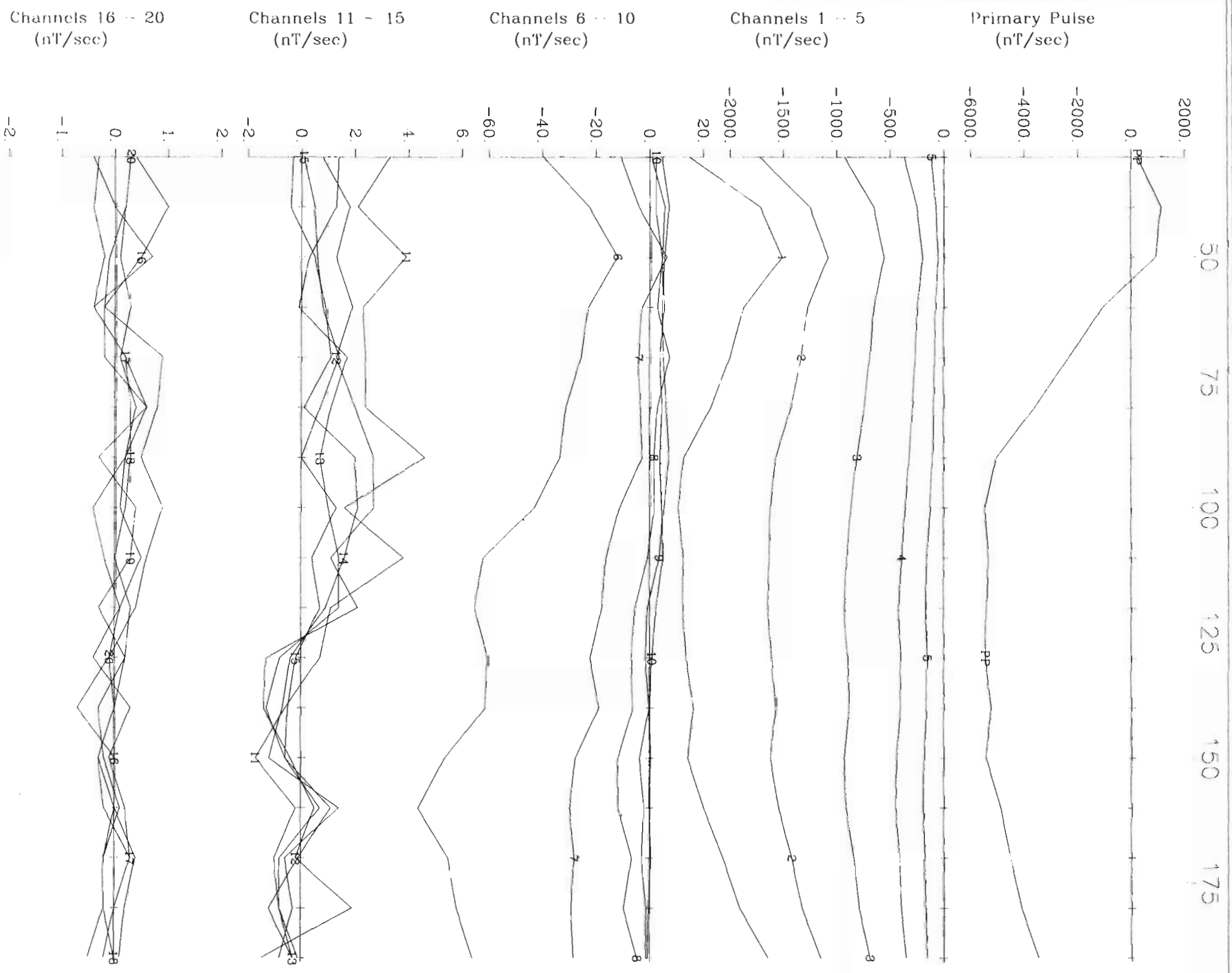
Primary Pulse  
(nT/sec)

0.  
10000.  
20000.  
30000.  
40000.



50 75 100 125 150 175

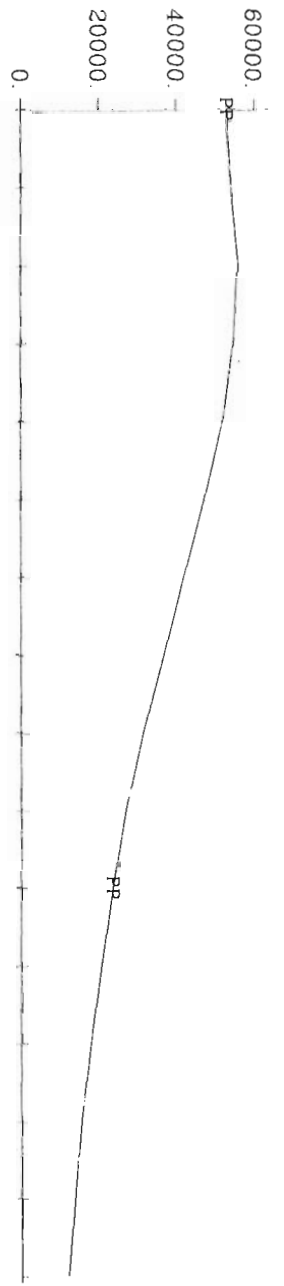
Pacific North West Capital Corp West Timmins Project  
Loop WTV09, Hole WTV05-09 X Component  
Crone Geophysics & Exploration Ltd.



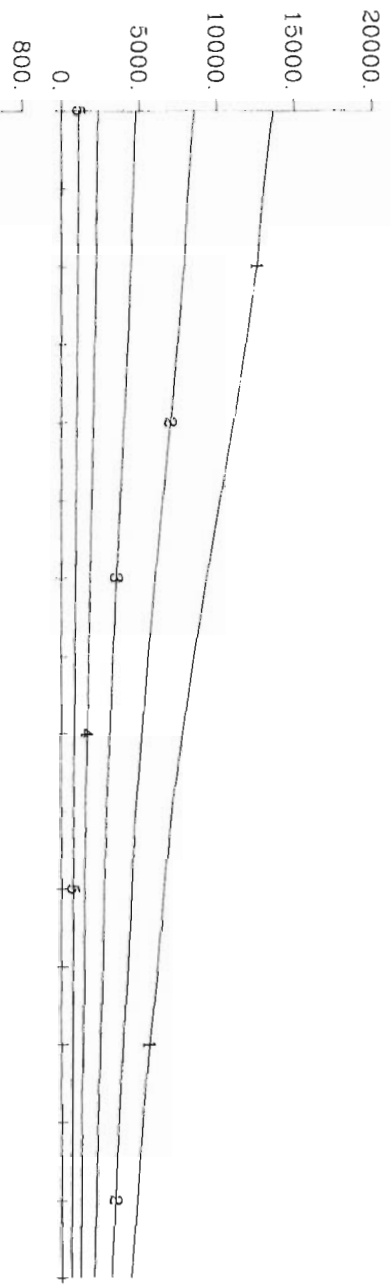
Pacific North West Capital Corp      West Timmins Project  
 Loop WTM09, Hole WTM05-09      Y Component  
 Crane Geophysics & Exploration Ltd.

40 60 80 100 120 140 160 180

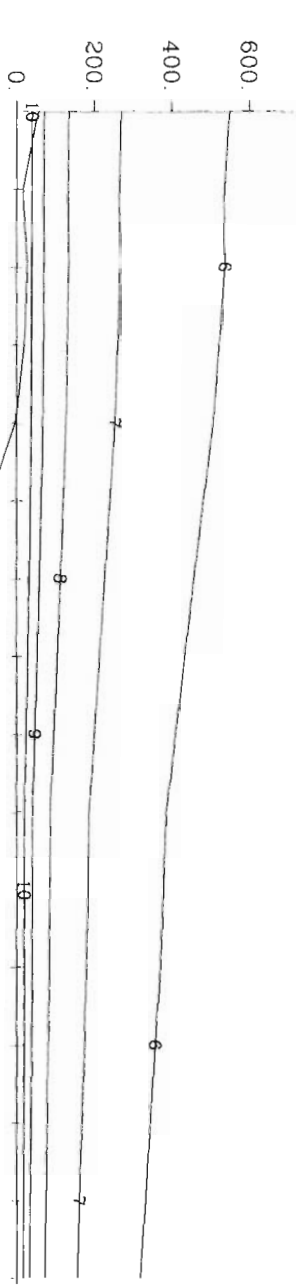
Primary Pulse  
(nT/sec)



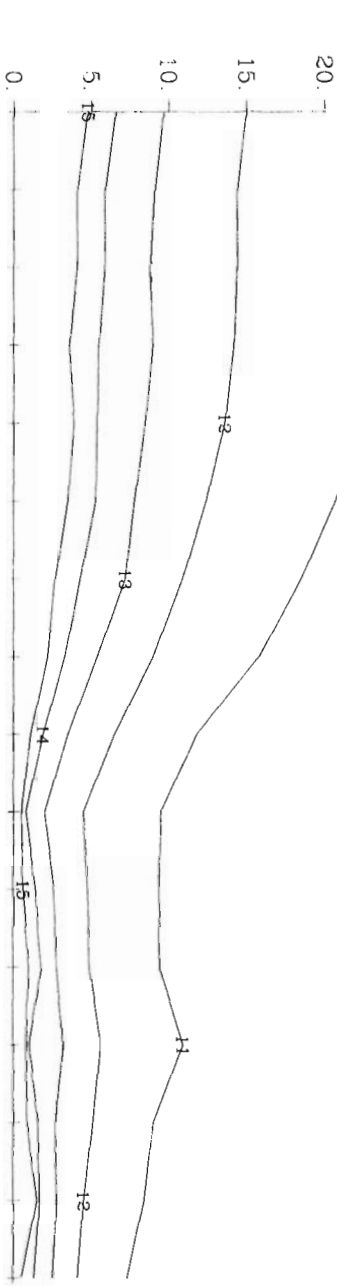
Channels 1 - 5  
(nT/sec)



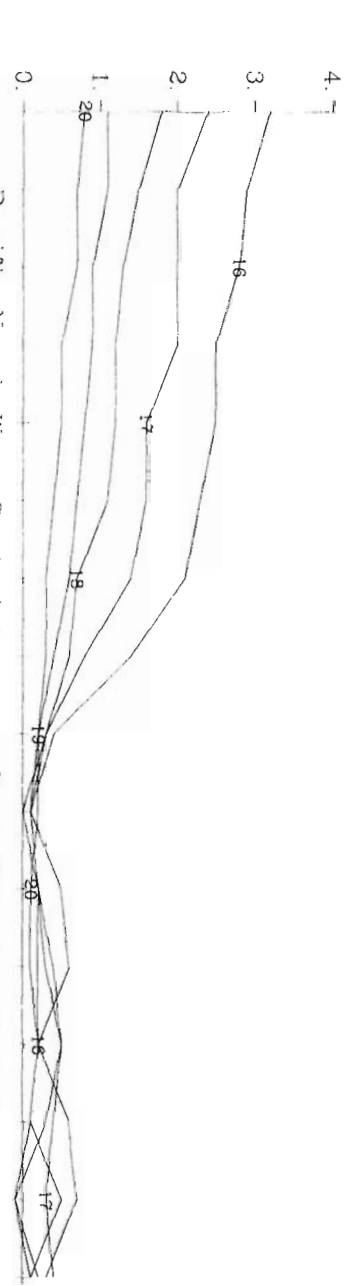
Channels 6 - 10  
(nT/sec)



Channels 11 - 15  
(nT/sec)

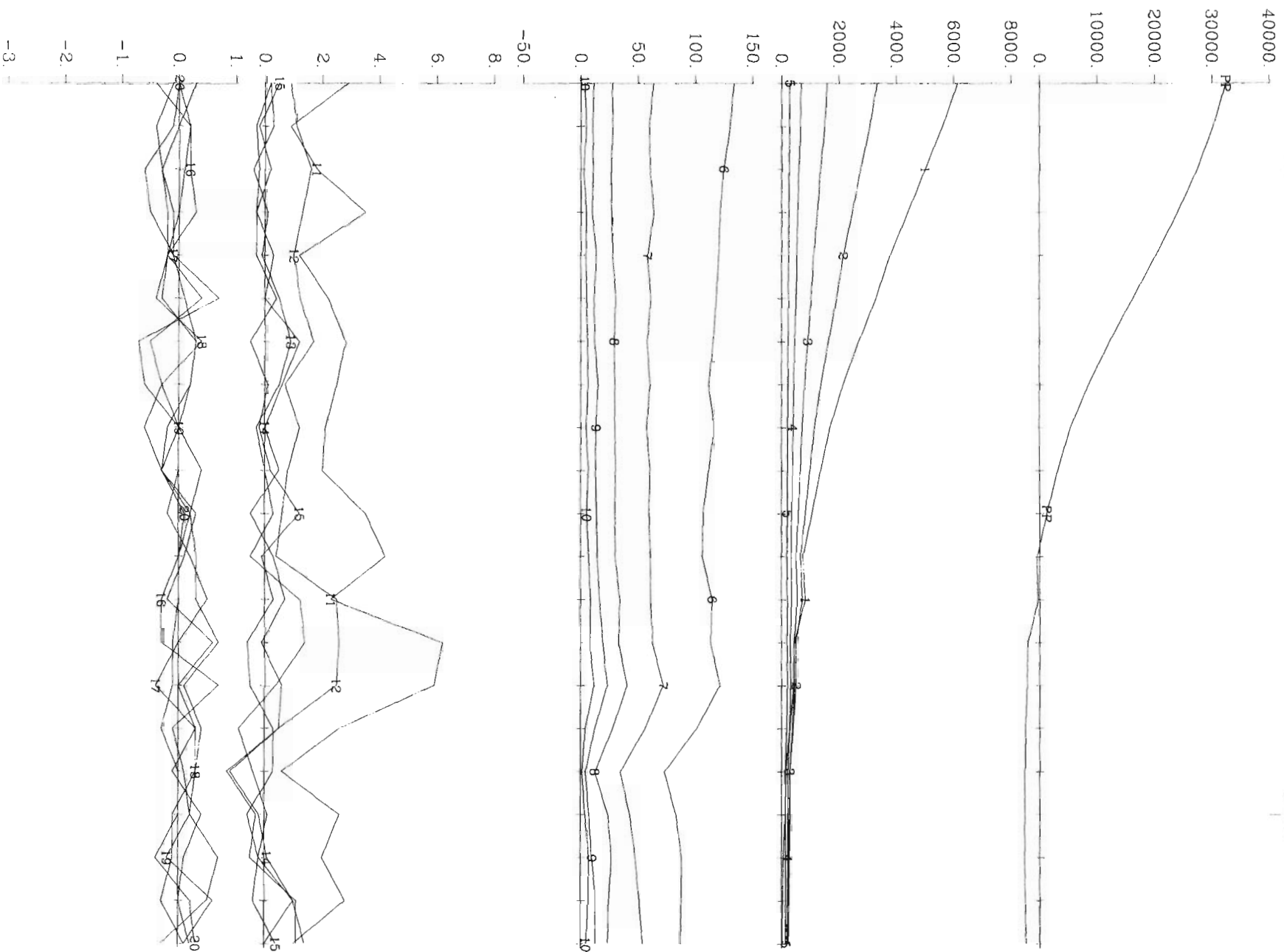


Channels 16 - 20  
(nT/sec)

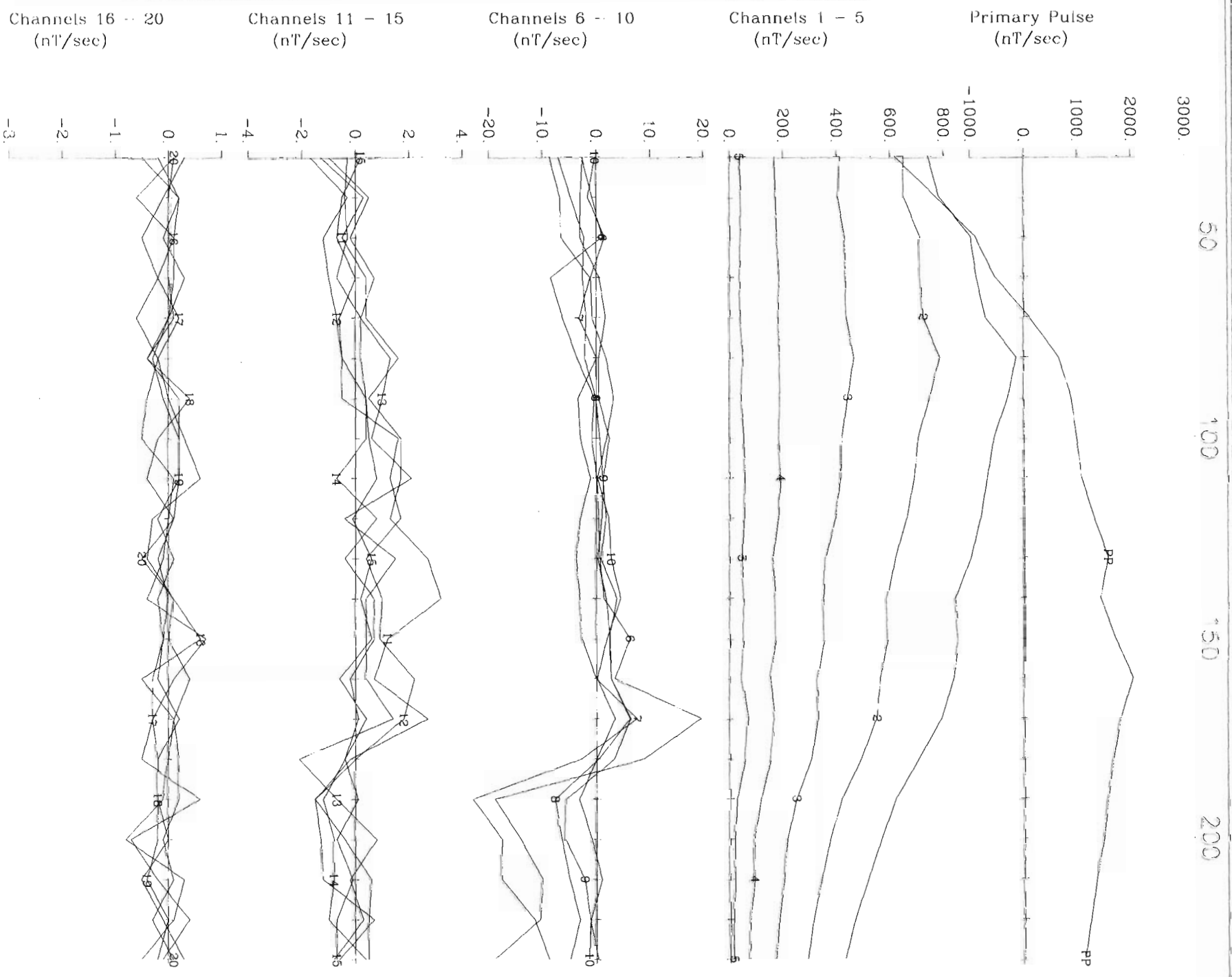


Pacific North West Capital Corp West Timmins Project  
Loop WTM09, Hole WTM05-09 Z Component  
Crone Geophysics & Exploration Ltd.

Channels 16 - 20 (nT/sec)      Channels 11 - 15 (nT/sec)      Channels 6 - 10 (nT/sec)      Channels 1 - 5 (nT/sec)      Primary Pulse (nT/sec)



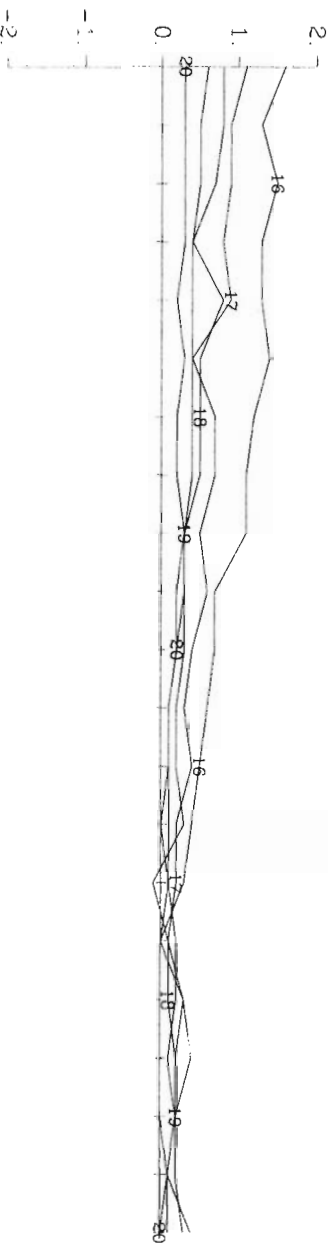
Pacific North West Capital Corp      West Timmins Project  
 Loop WTM11, Hole WTM05-11      X Component  
 Crone Geophysics & Exploration Ltd.



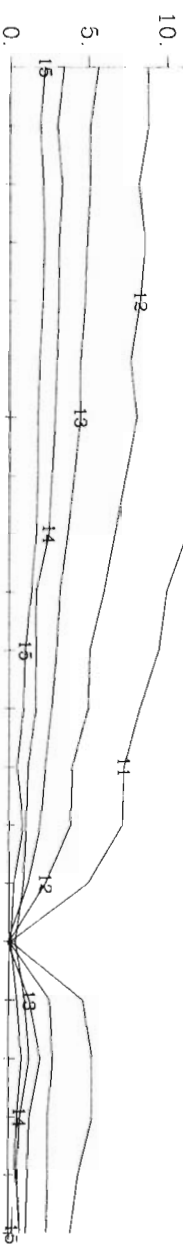
Pacific North West Capital Corp West Timmins Project  
 Loop WTW11, Hole WTW05-11 Y Component  
 Crone Geophysics & Exploration Ltd.



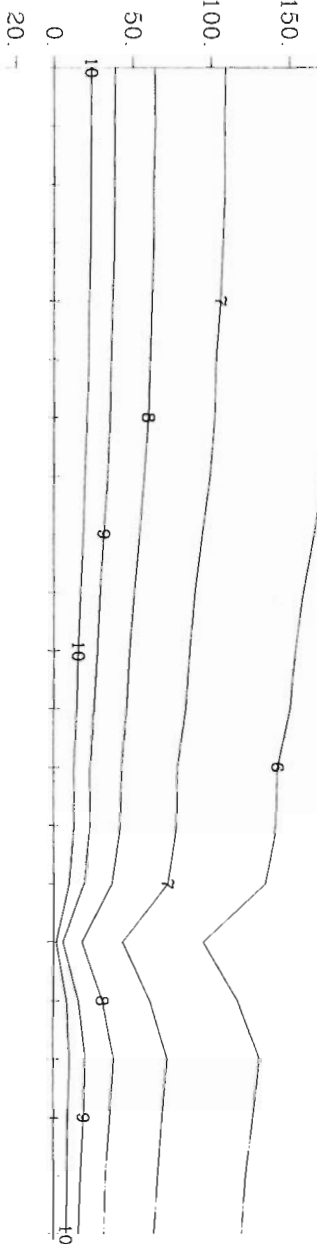
Channels 16 - 20  
(nT/sec)



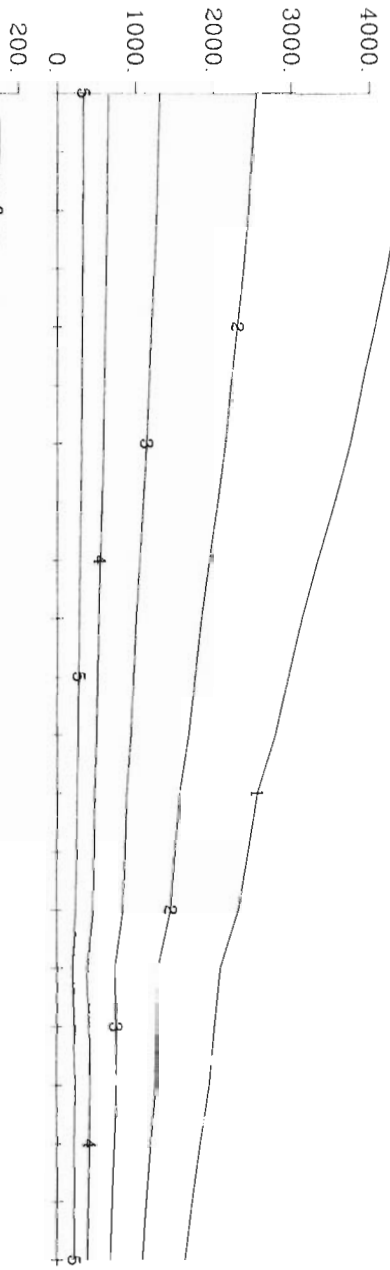
Channels 11 - 15  
(nT/sec)



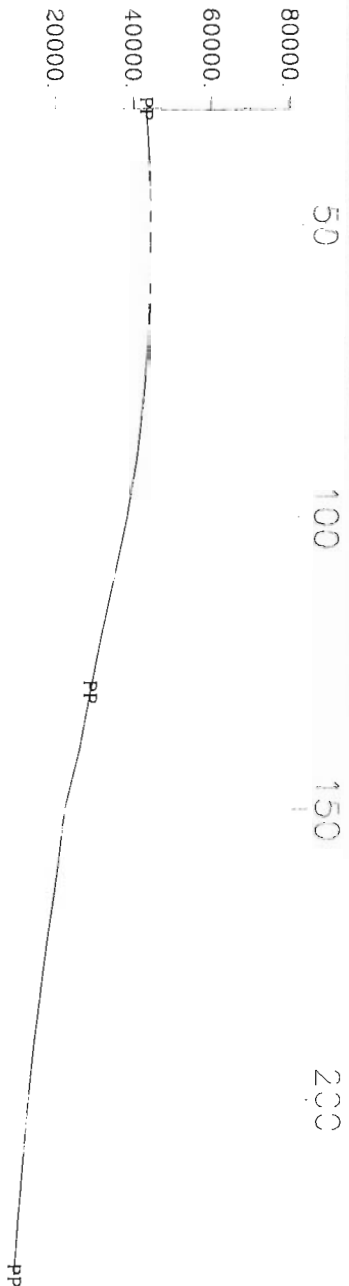
Channels 6 - 10  
(nT/sec)



Channels 1 - 5  
(nT/sec)

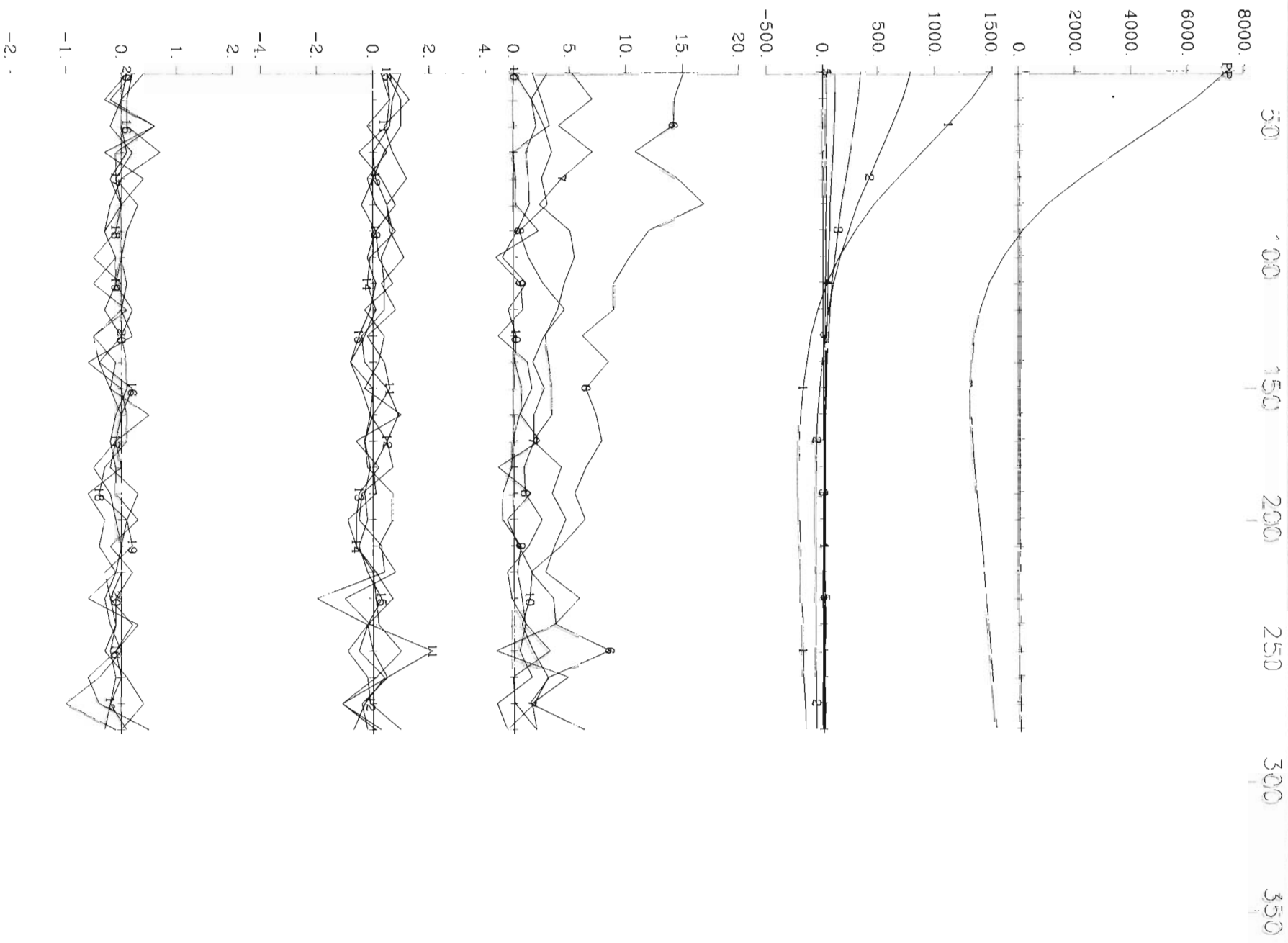


Primary Pulse  
(nT/sec)



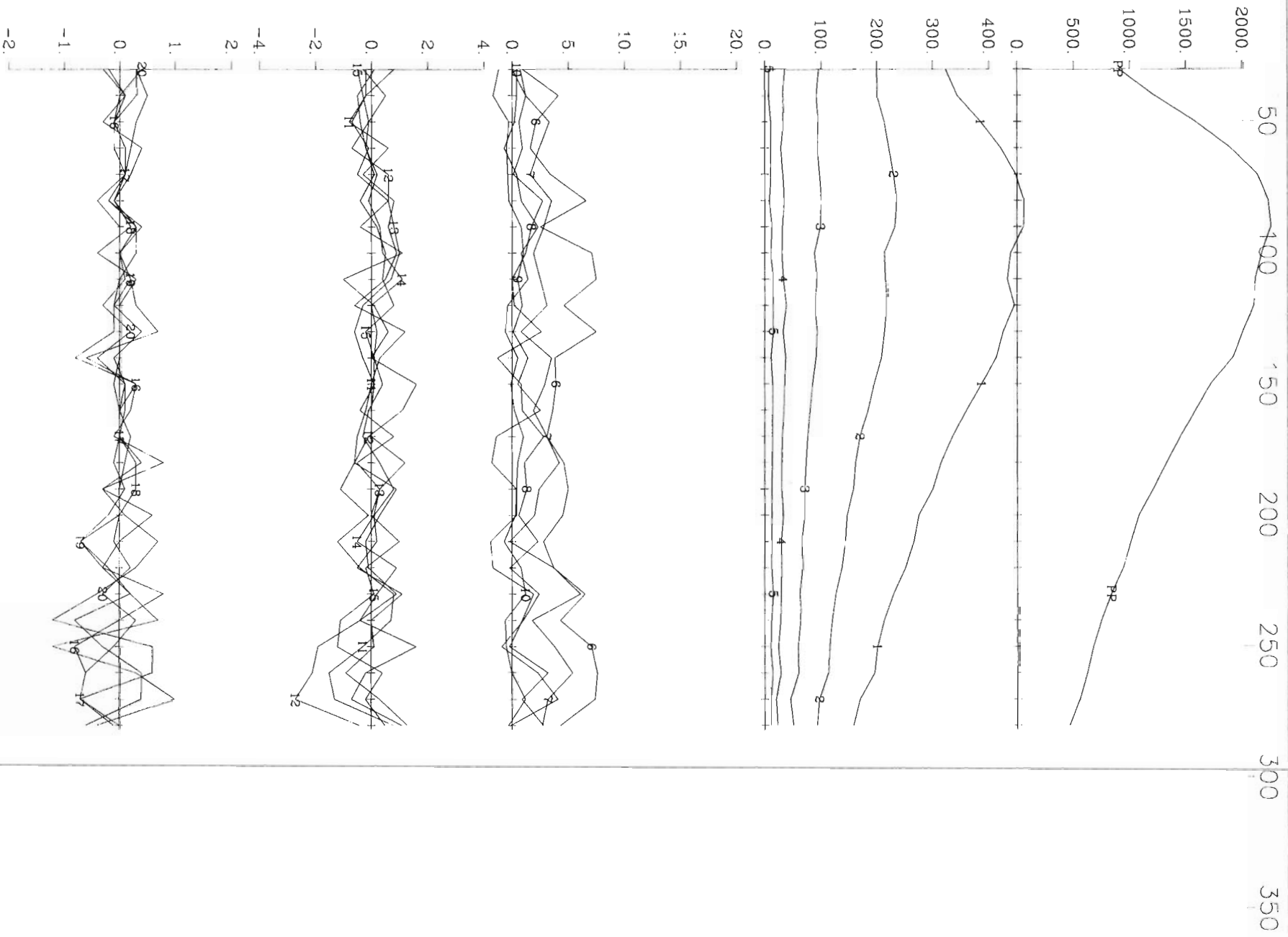
Pacific North West Capital Corp West Timmins Project  
Loop WTM11, Hole WTM05-11 Z Component  
Crone Geophysics & Exploration Ltd.

Channels 16 - 20 (nT/sec)      Channels 11 - 15 (nT/sec)      Channels 6 - 10 (nT/sec)      Channels 1 - 5 (nT/sec)      Primary Pulse (nT/sec)



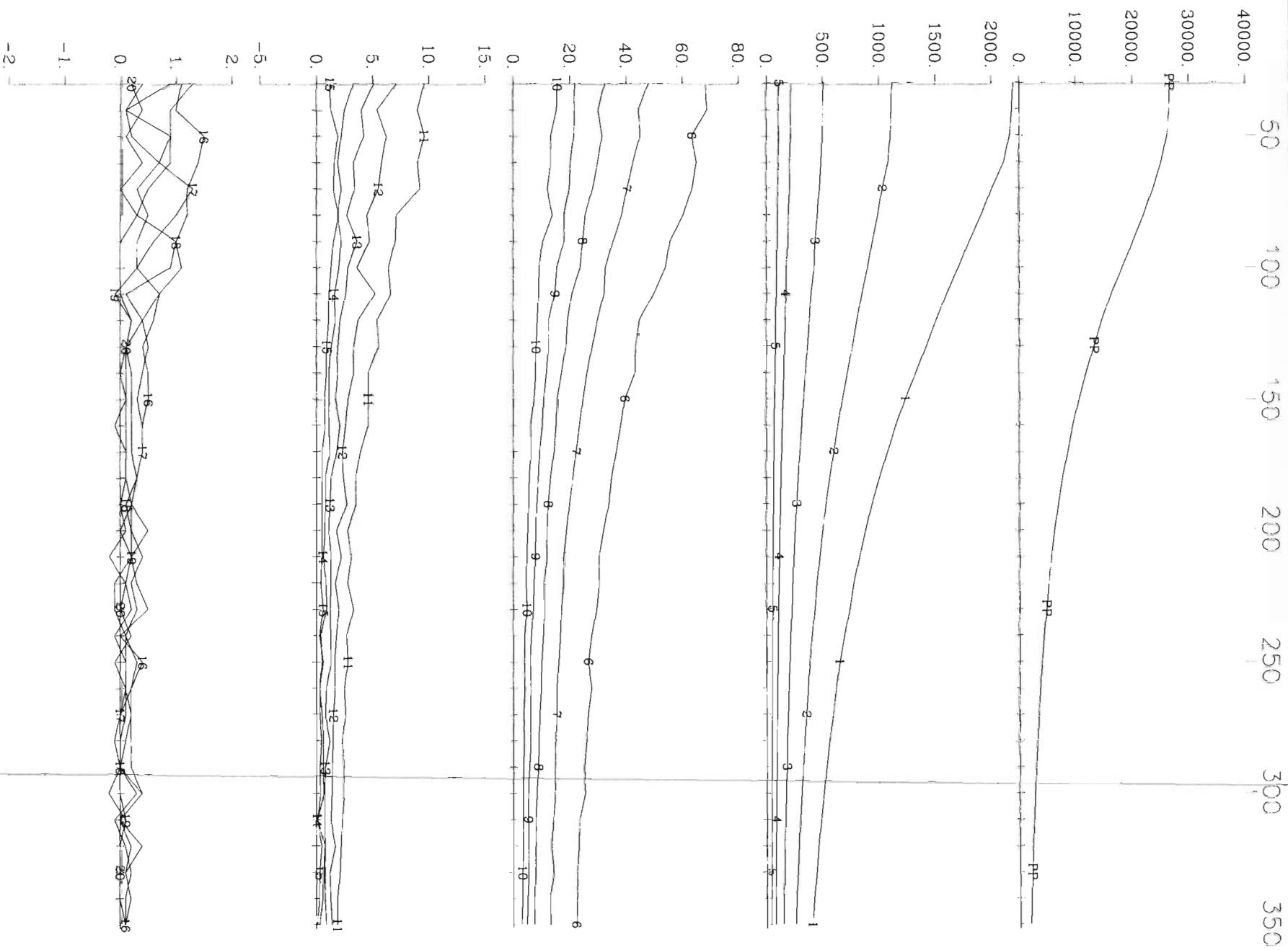
Pacific North West Capital Corp      West Timmins Project  
 Loop 377/15 Hole WTY-07-15      X Component  
 Crane Geophysics & Exploration Ltd.

Channels 16 - 20 (nT/sec)      Channels 11 - 15 (nT/sec)      Channels 6 - 10 (nT/sec)      Channels 1 - 5 (nT/sec)      Primary Pulse (nT/sec)



Pacific North West Capital Corp      West Timmins Project  
 Loop WTM15, Hole WTM-07-15      Y Component  
 Crone Geophysics & Exploration Ltd.

Channels 16 - 20 (nT/sec)      Channels 11 - 15 (nT/sec)      Channels 6 - 10 (nT/sec)      Channels 1 - 5 (nT/sec)      Primary Pulse (nT/sec)



Pacific North West Capital Corp      West Timmins Project  
 Loop WTM15, Hole WTM-07-15      Z Component  
 Crone Geophysics & Exploration Ltd.

Channels 16 - 20  
(nT/sec)

Channels 11 - 15  
(nT/sec)

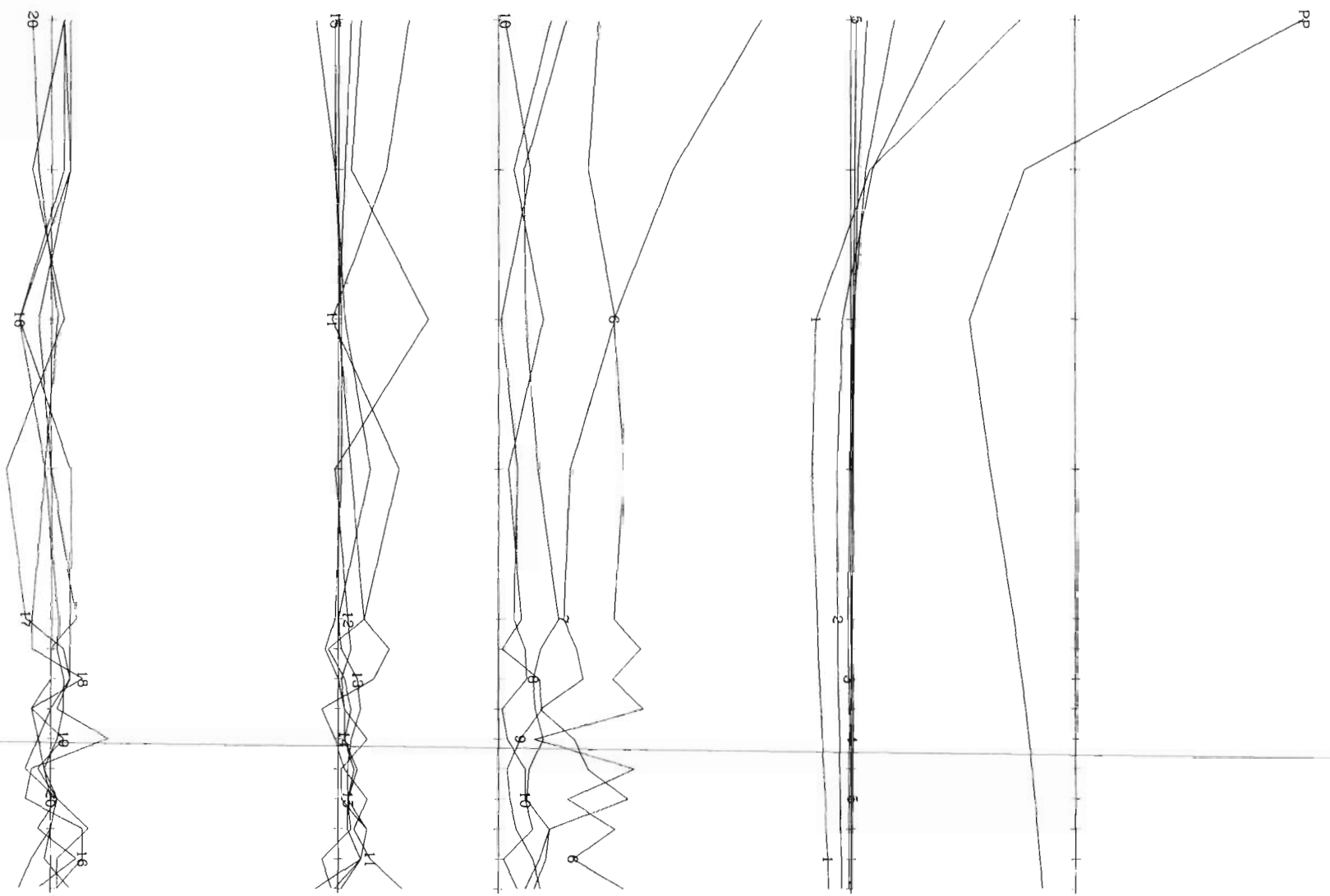
Channels 6 - 10  
(nT/sec)

Channels 1 - 5  
(nT/sec)

Primary Pulse  
(nT/sec)

8000  
6000  
4000  
2000  
0  
-500  
-1000  
-1500  
-2000  
-2500  
-3000  
-3500  
-4000  
-4500  
-5000  
-5500  
-6000  
-6500  
-7000  
-7500  
-8000

50 100 150 200 250 300 350



Pacific North West Capital Corp West Timmins Project  
Loop WTM15-16, Hole WTM-07-15 X Component  
Crone Geophysics & Exploration Ltd.

Channels 16 - 20  
(nT/sec)

-2  
-1  
0  
1



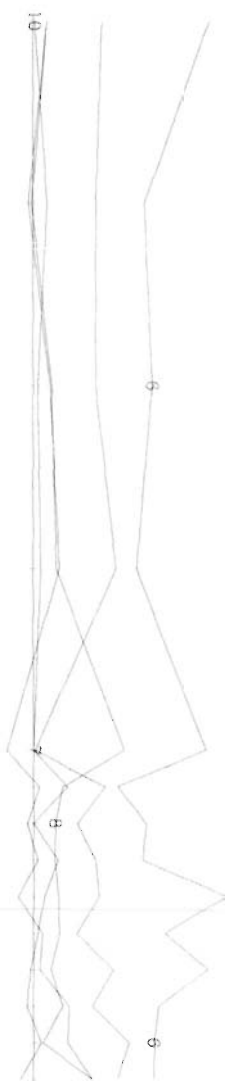
Channels 11 - 15  
(nT/sec)

-4  
-2  
0  
2



Channels 6 - 10  
(nT/sec)

0  
4  
8  
12  
16



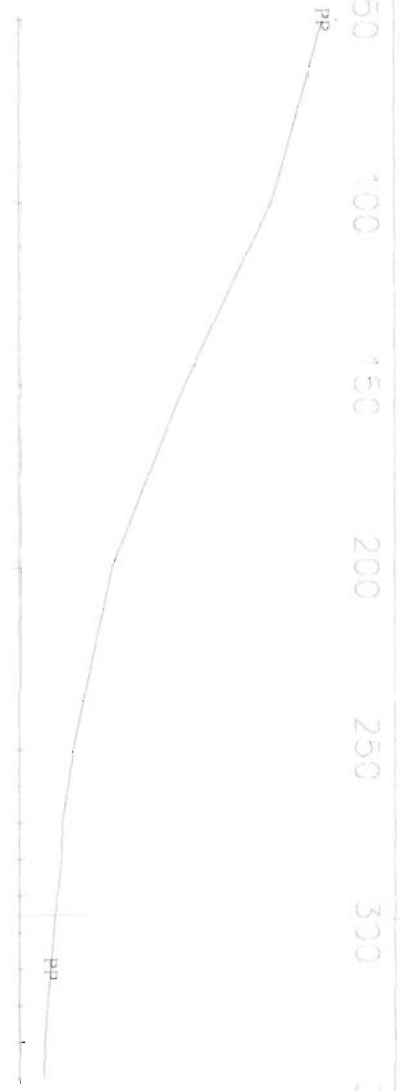
Channels 1 - 5  
(nT/sec)

0  
200  
400  
600  
800



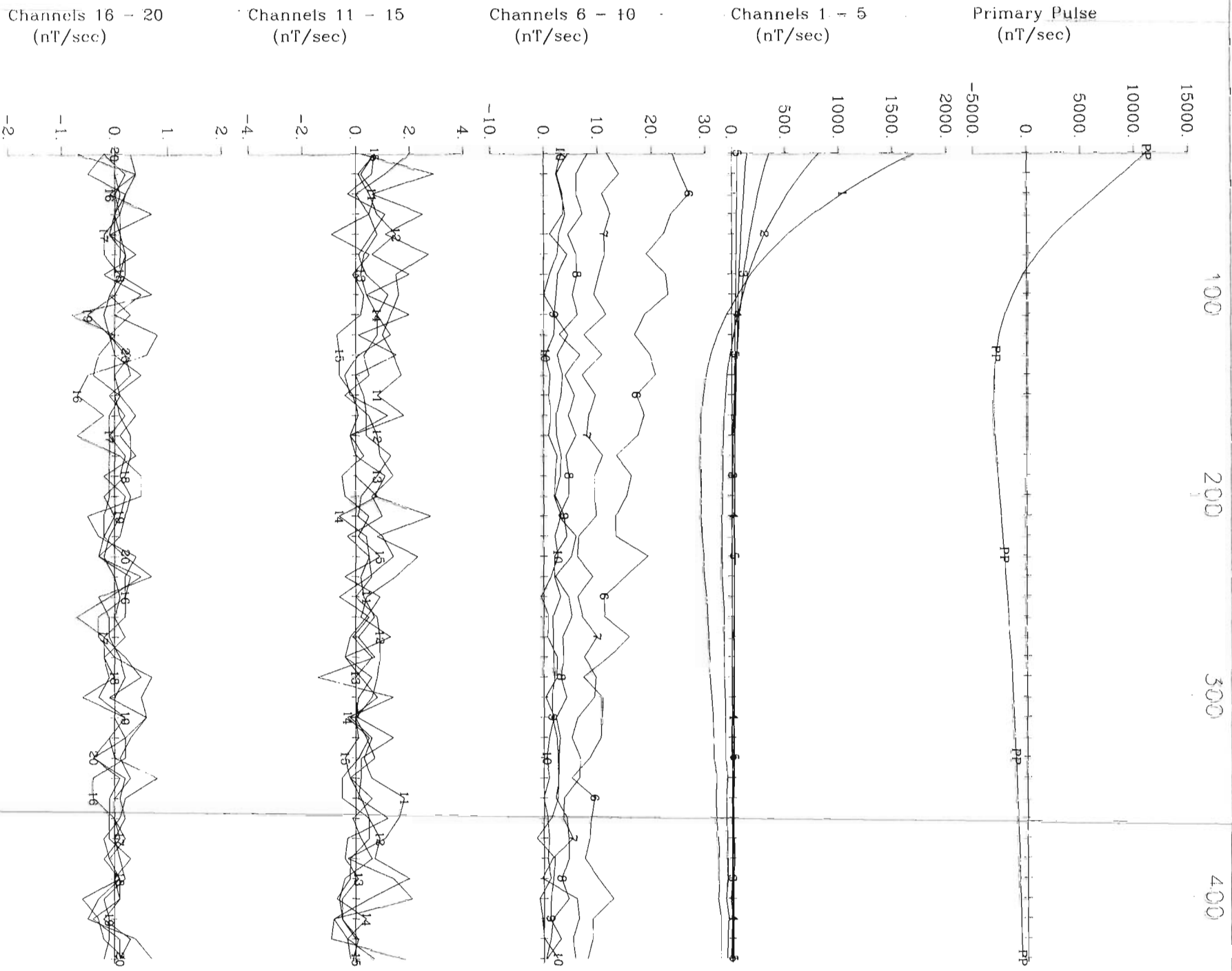
Primary Pulse  
(nT/sec)

0  
1000  
2000  
3000  
4000



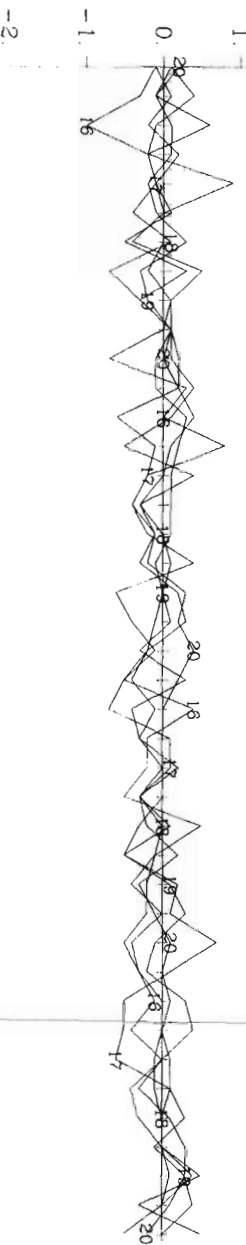
50 100 150 200 250 300 350

Pacific North West Capital Corp. West Timmins Project  
Loop WTM-15-16 Hole WTM-07-15 V Component  
Cione Geophysics & Exploration Inc.

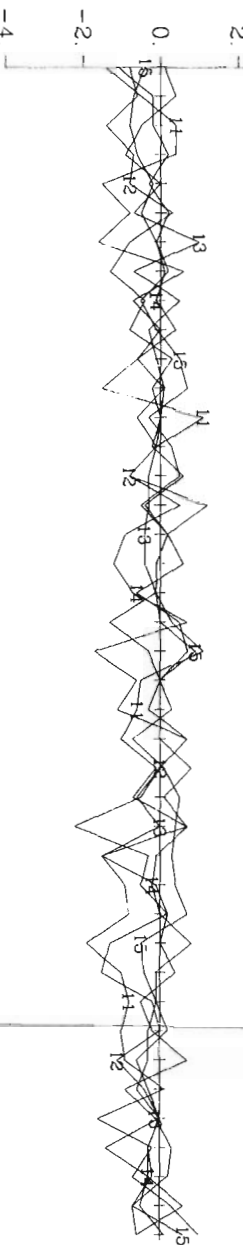


Pacific North West Capital Corp West Timmins Project  
 Loop WTM16 Hole WTM-07-16 X Component  
 Crone Geophysics & Exploration Ltd.

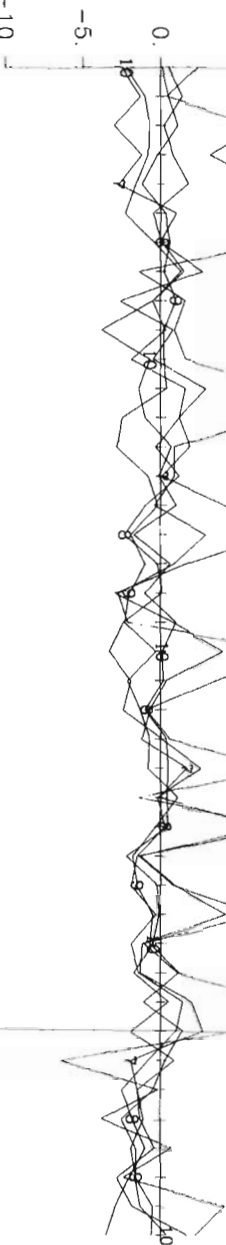
Channels 16 - 20  
(nT/sec)



Channels 11 - 15  
(nT/sec)



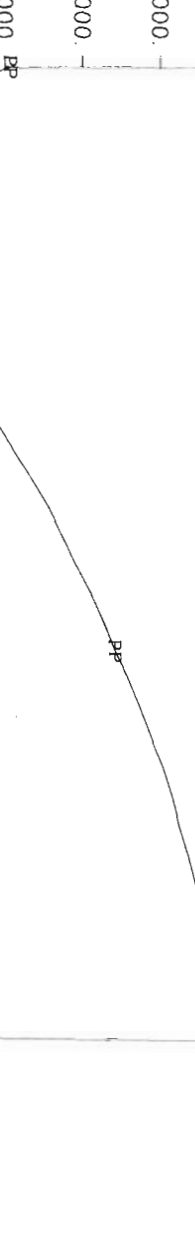
Channels 6 - 10  
(nT/sec)



Channels 1 - 5  
(nT/sec)



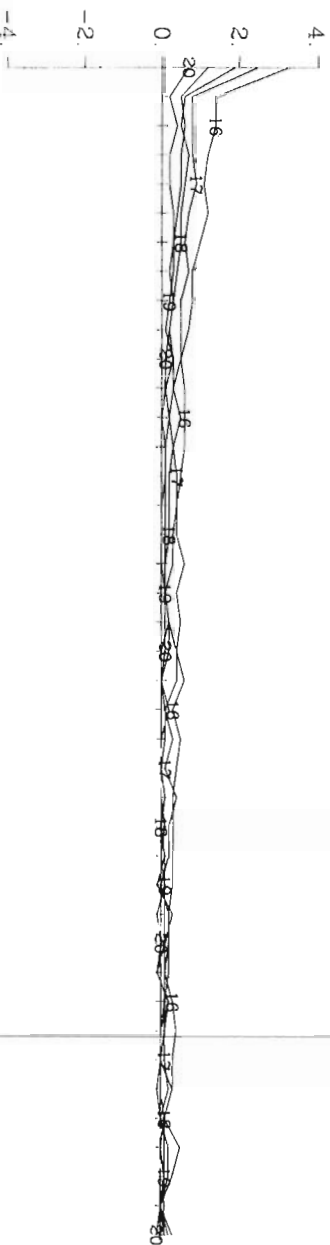
Primary Pulse  
(nT/sec)



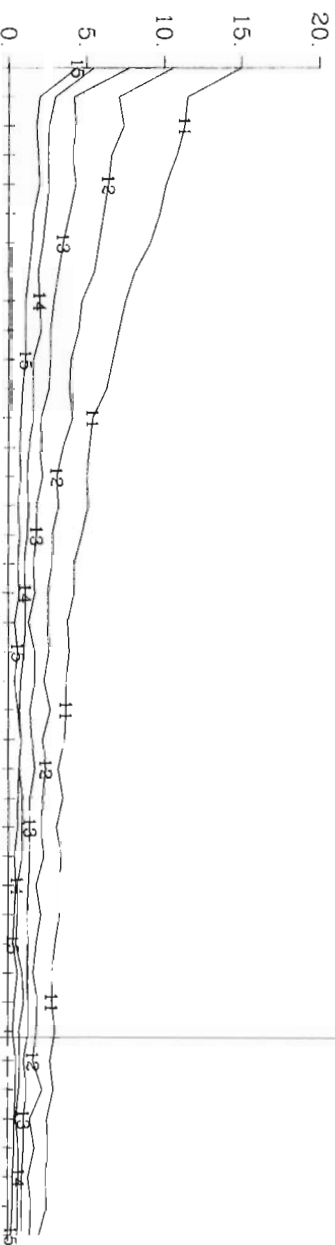
Pacific North West Capital Corp West Timmins Project  
Loop WTM-16, Hole WTM-07-16 V Component  
Cronrøe Geophysics & Exploration Ltd.



Channels 16 - 20  
(nT/sec)



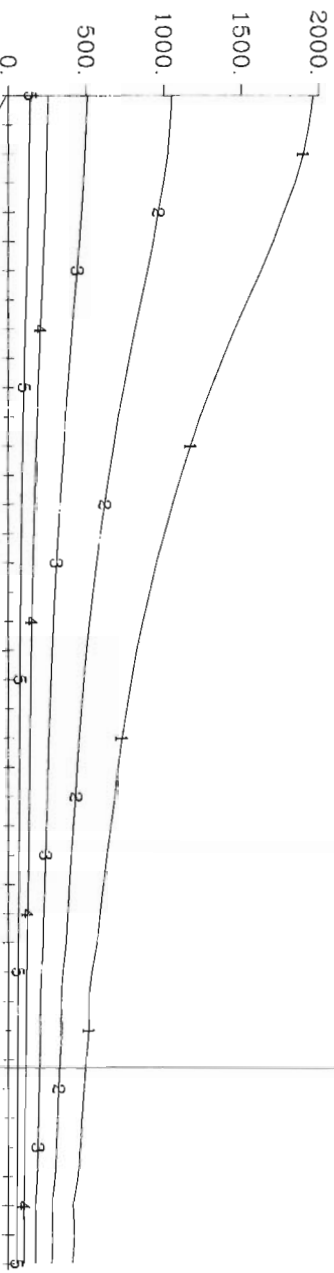
Channels 11 - 15  
(nT/sec)



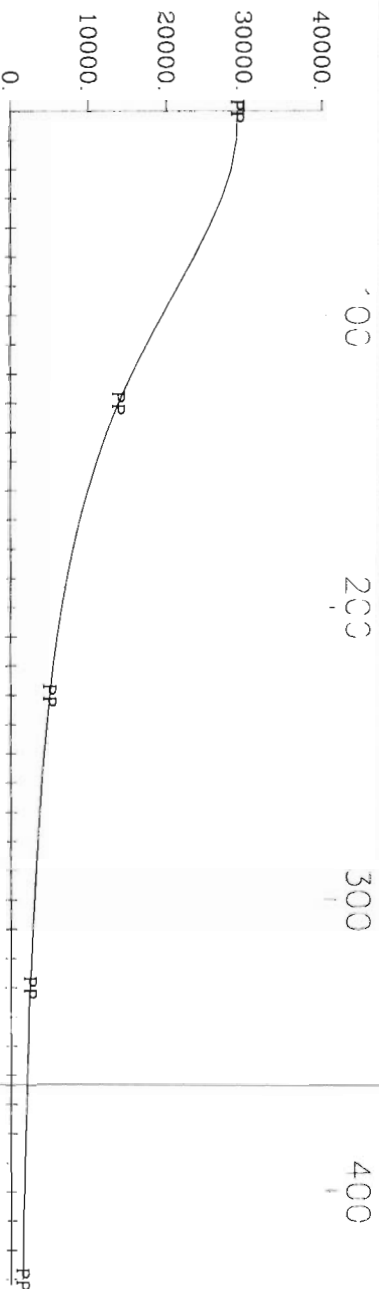
Channels 6 - 10  
(nT/sec)



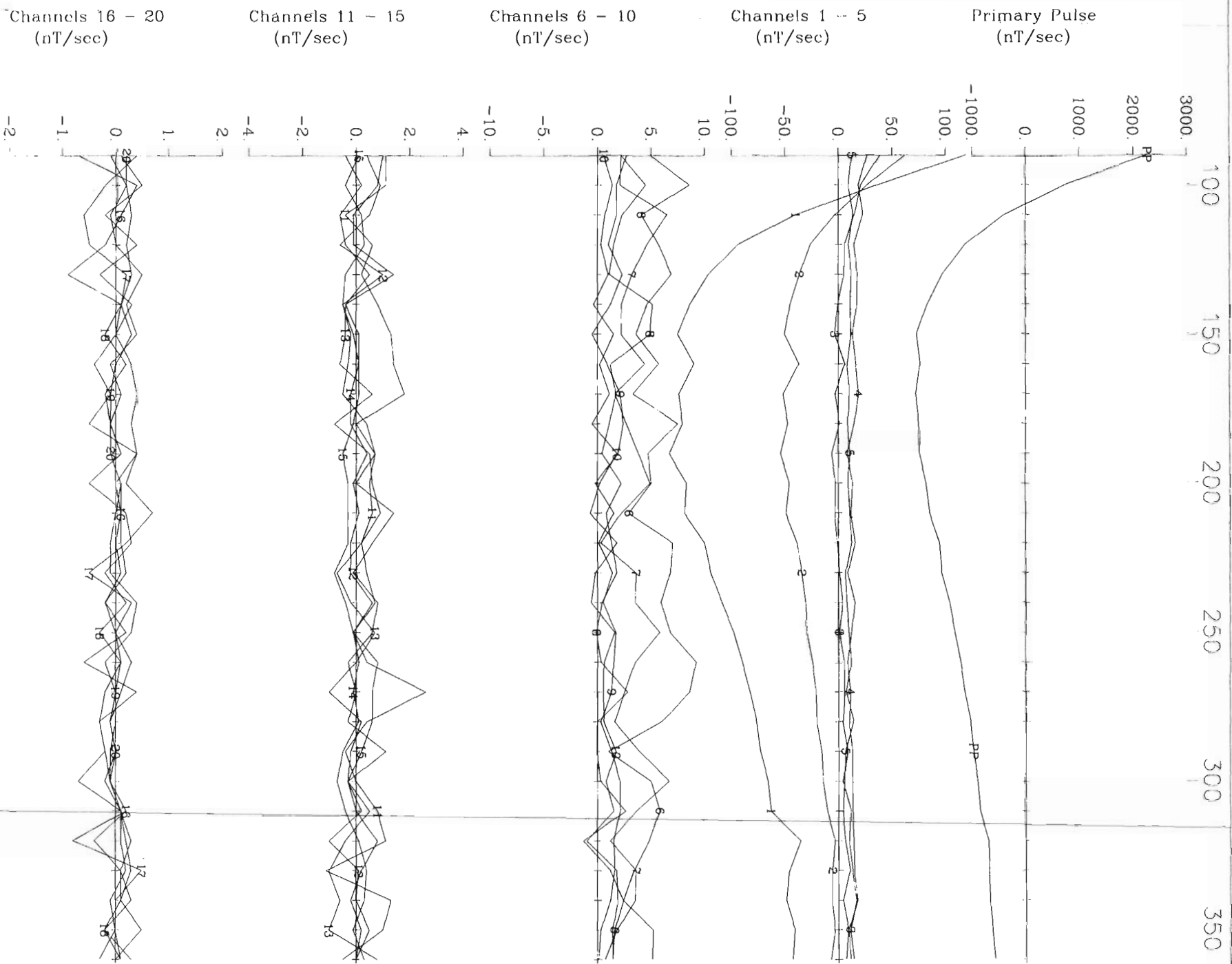
Channels 1 - 5  
(nT/sec)



Primary Pulse  
(nT/sec)



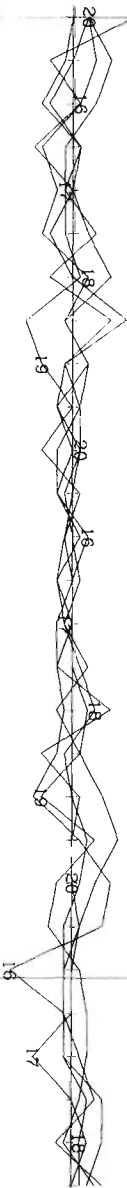
Pacific North West Capital Corp West Timmins Project  
Loop WTM16, Hole WTV-07-16 Z Component  
Crone Geophysics & Exploration Ltd.



Pacific North West Capital Corp West Timmins Project  
 Loop WTM17, 10ie WTM-07-17 X Component  
 Crone Geophysics & Exploration Ltd.

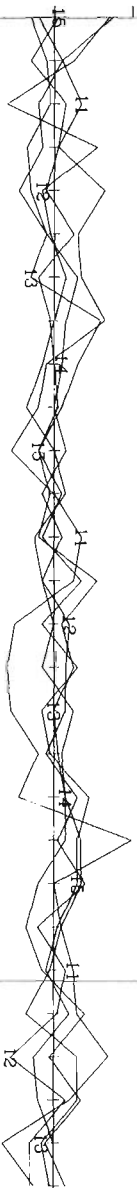
Channels 16 - 20  
(nT/sec)

-2.  
-1.  
0.  
1.  
2.



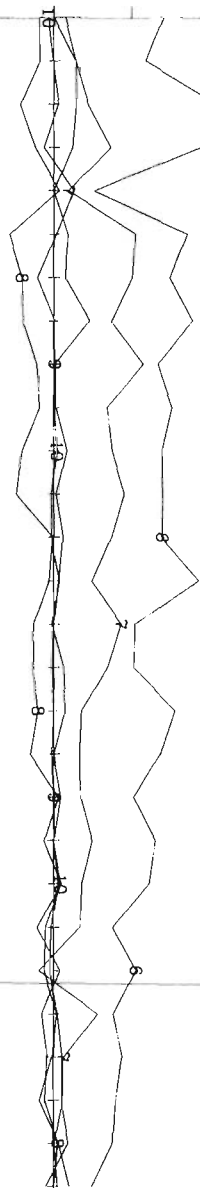
Channels 11 - 15  
(nT/sec)

-4.  
-2.  
0.  
2.



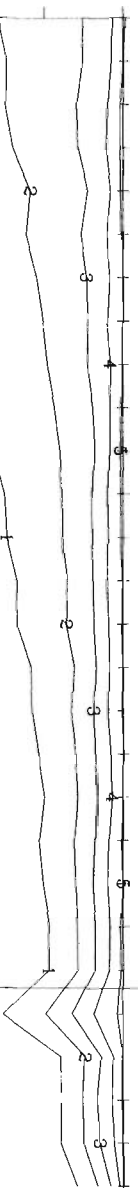
Channels 6 - 10  
(nT/sec)

-10.  
0.  
10.  
20.  
30.



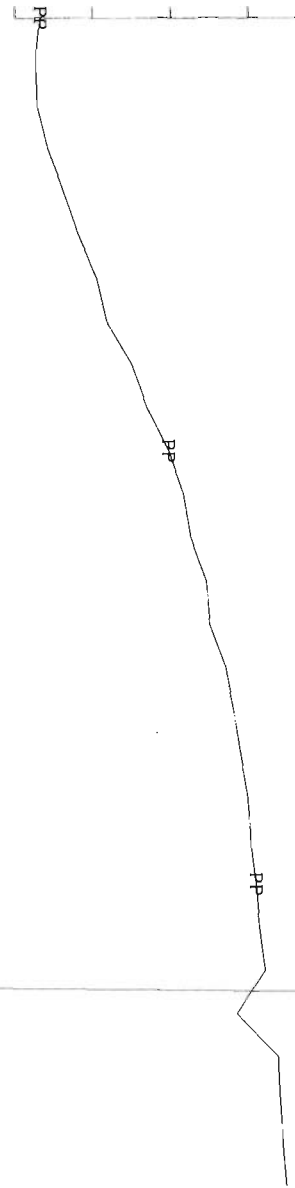
Channels 1 - 5  
(nT/sec)

-800.  
-600.  
-400.  
-200.  
0.



Primary Pulse  
(nT/sec)

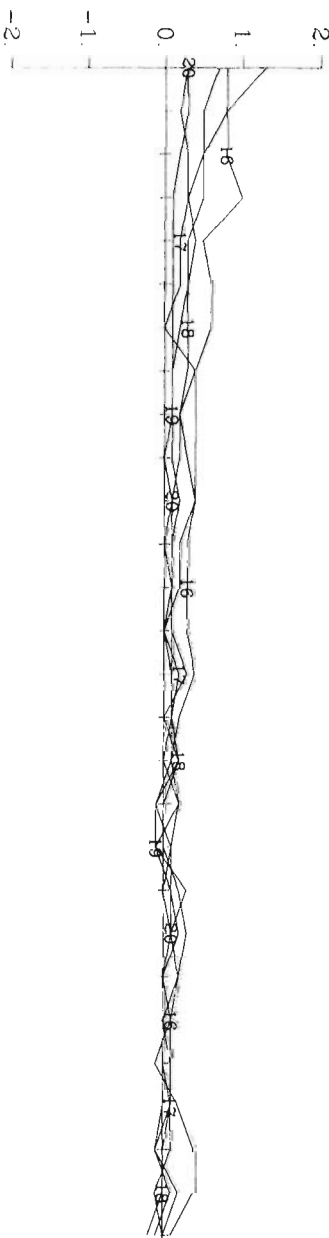
-4000.  
-3000.  
-2000.  
-1000.  
0.



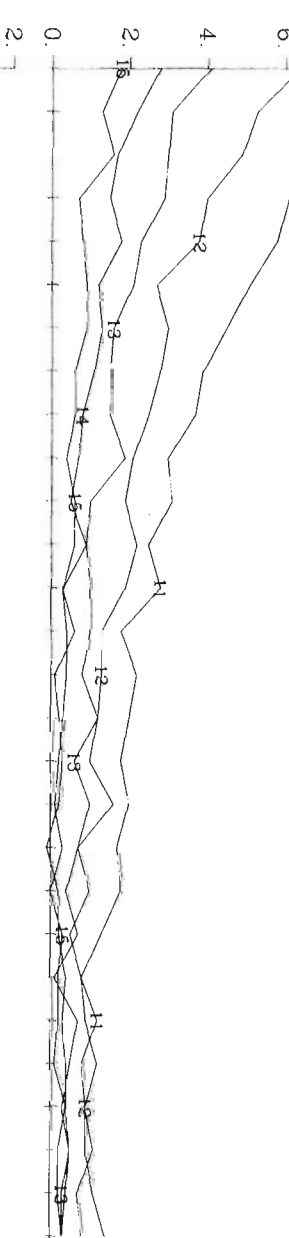
100 150 200 250 300 350

Pacific North West Capital Corp West Timmins Project  
Loop WTW17, Hole WTW-07-17 Y Component  
Crone Geophysics & Exploration Ltd.

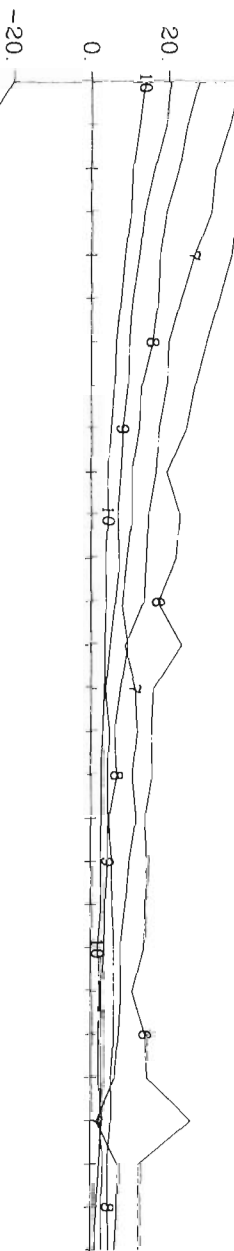
Channels 16 - 20  
(nT/sec)



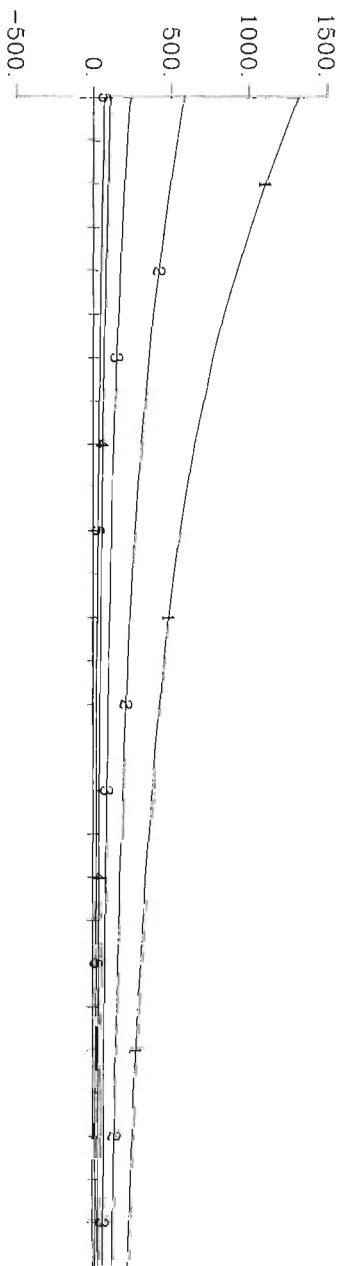
Channels 11 - 15  
(nT/sec)



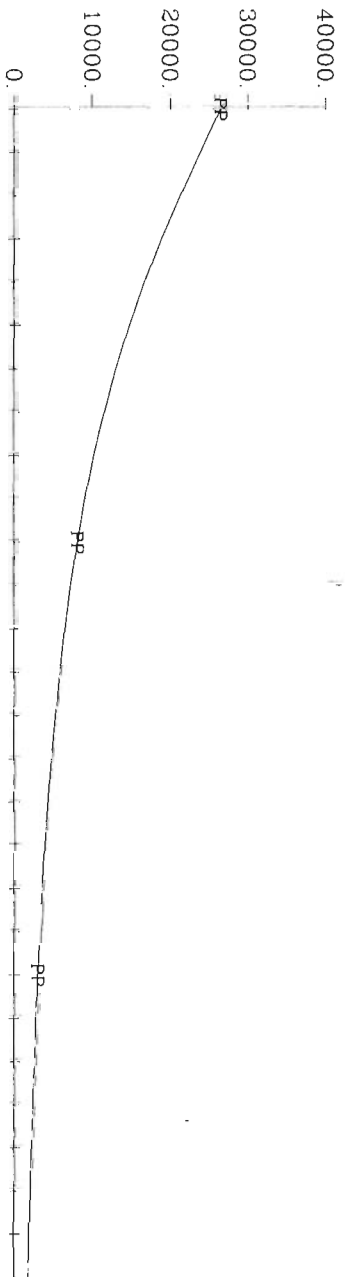
Channels 6 - 10  
(nT/sec)



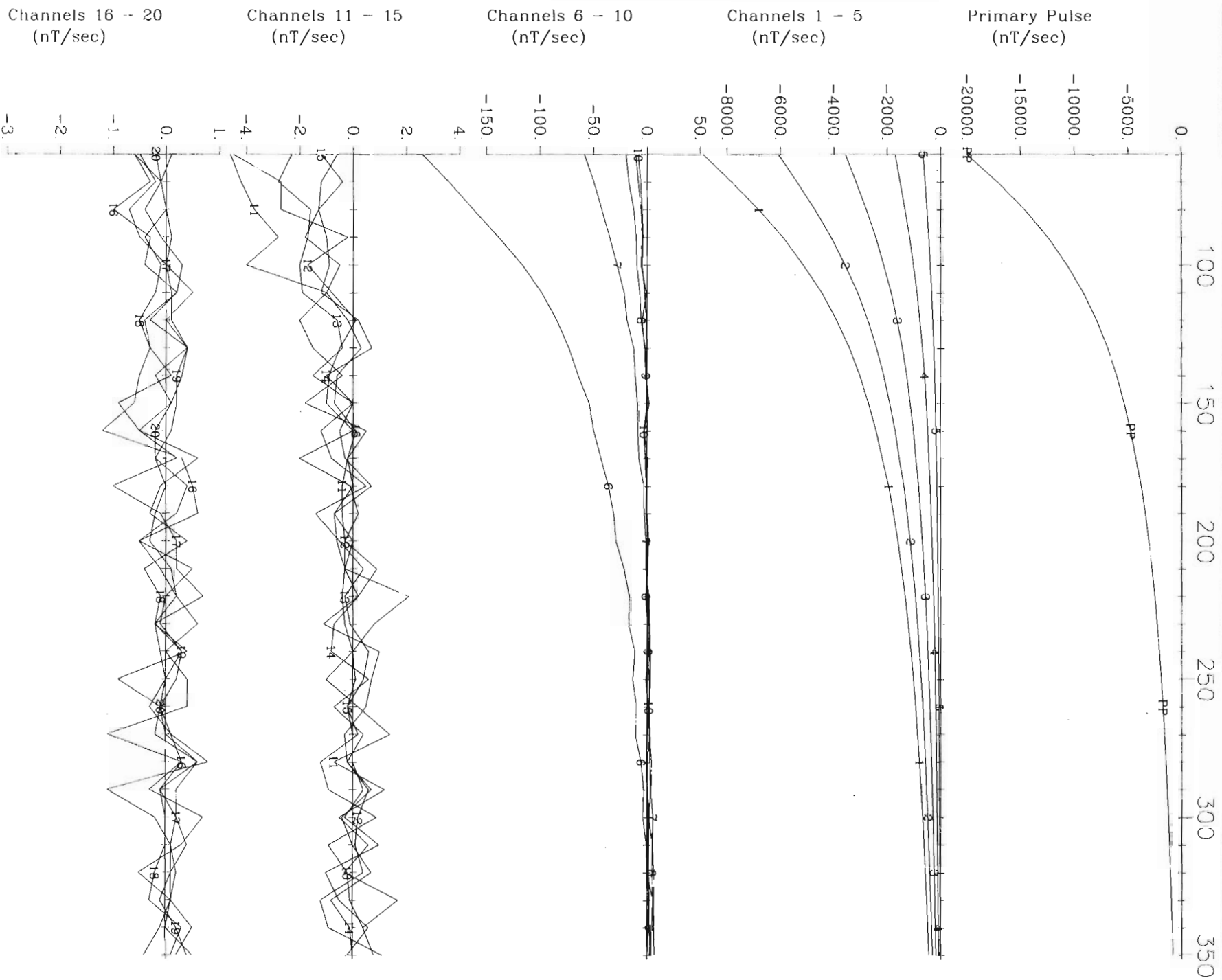
Channels 1 - 5  
(nT/sec)



Primary Pulse  
(nT/sec)



Pacific North West Capital Corp West Timmins Project  
Loop WTM17, Hole WTM-07-17 Z Component  
Crone Geophysics & Exploration Ltd.



Pacific North West Capital Corp      West Timmins Project  
 Loop WTM18, Hole WTM07-18      X Component  
 Crone Geophysics & Exploration Ltd.

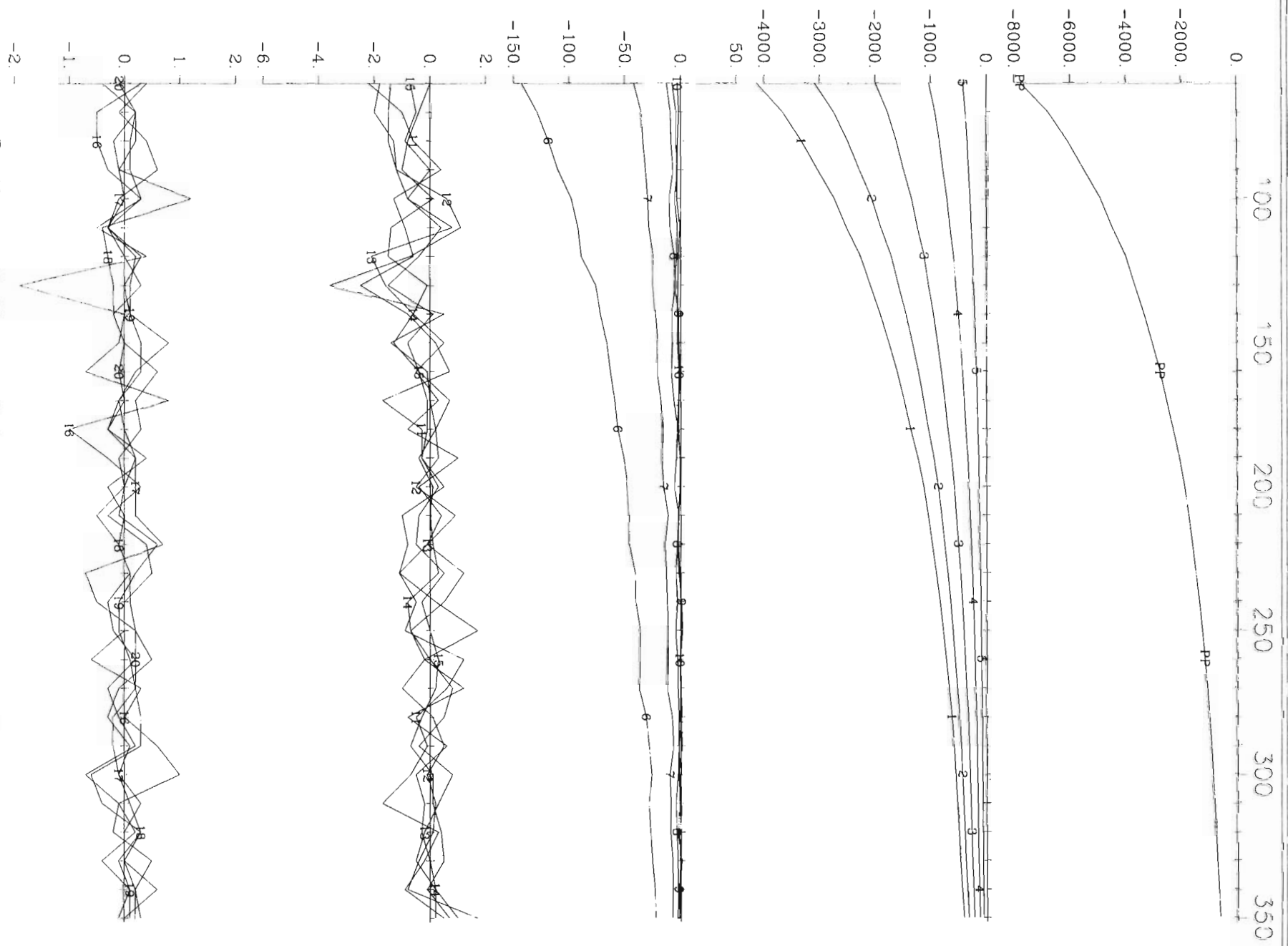
Channels 16 - 20  
(nT/sec)

Channels 11 - 15  
(nT/sec)

Channels 6 - 10  
(nT/sec)

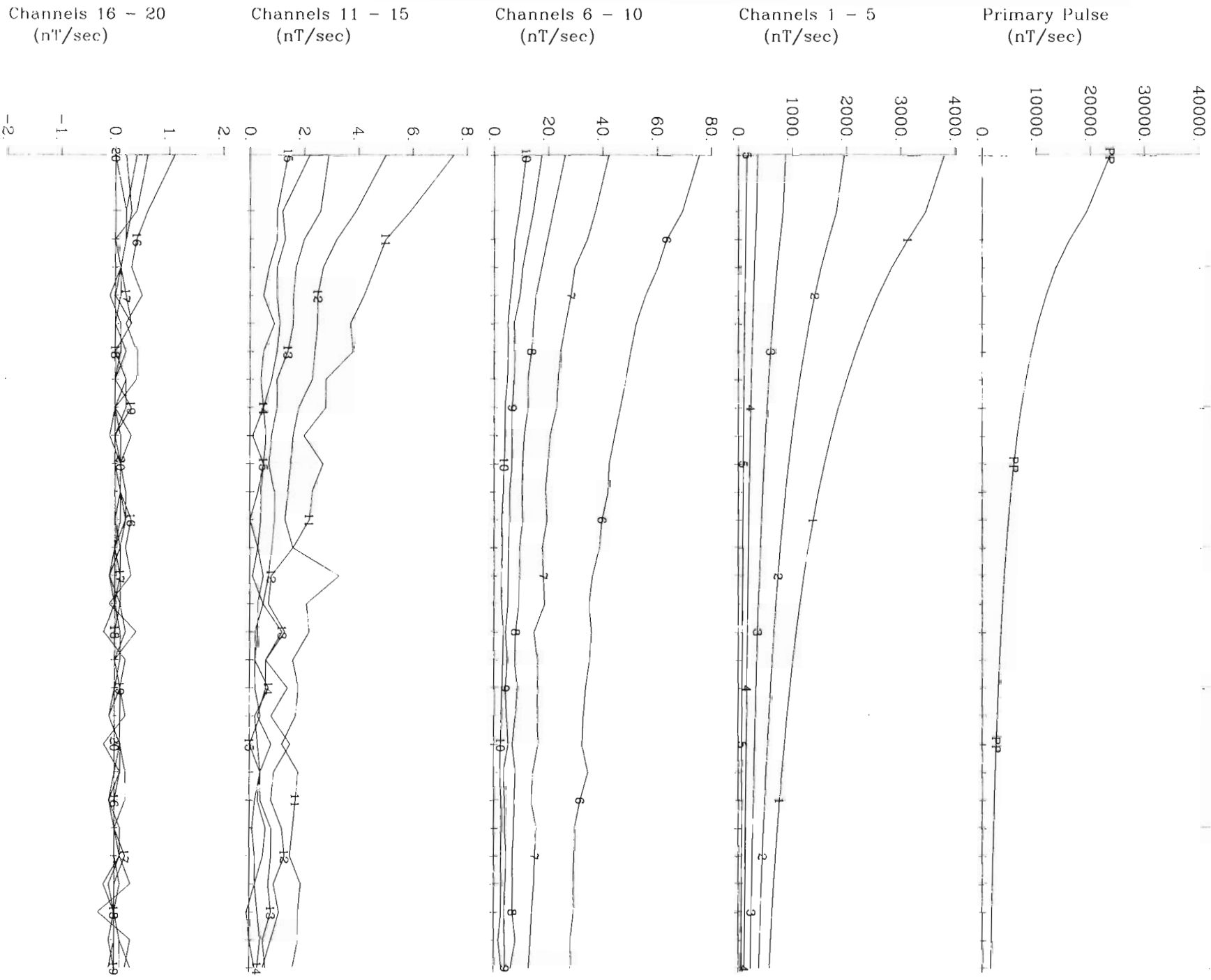
Channels 1 - 5  
(nT/sec)

Primary Pulse  
(nT/sec)



Pacific North West Capital Corp      West Timmins Project  
Loop WTM18, Hole WTM07-18      Y Component  
Crone Geophysics & Exploration Ltd.

100 150 200 250 300 350



Pacific North West Capital Corp      West Timmins Project  
Loop WTM18, Hole WTM07-18      Z Component  
Crone Geophysics & Exploration Ltd.

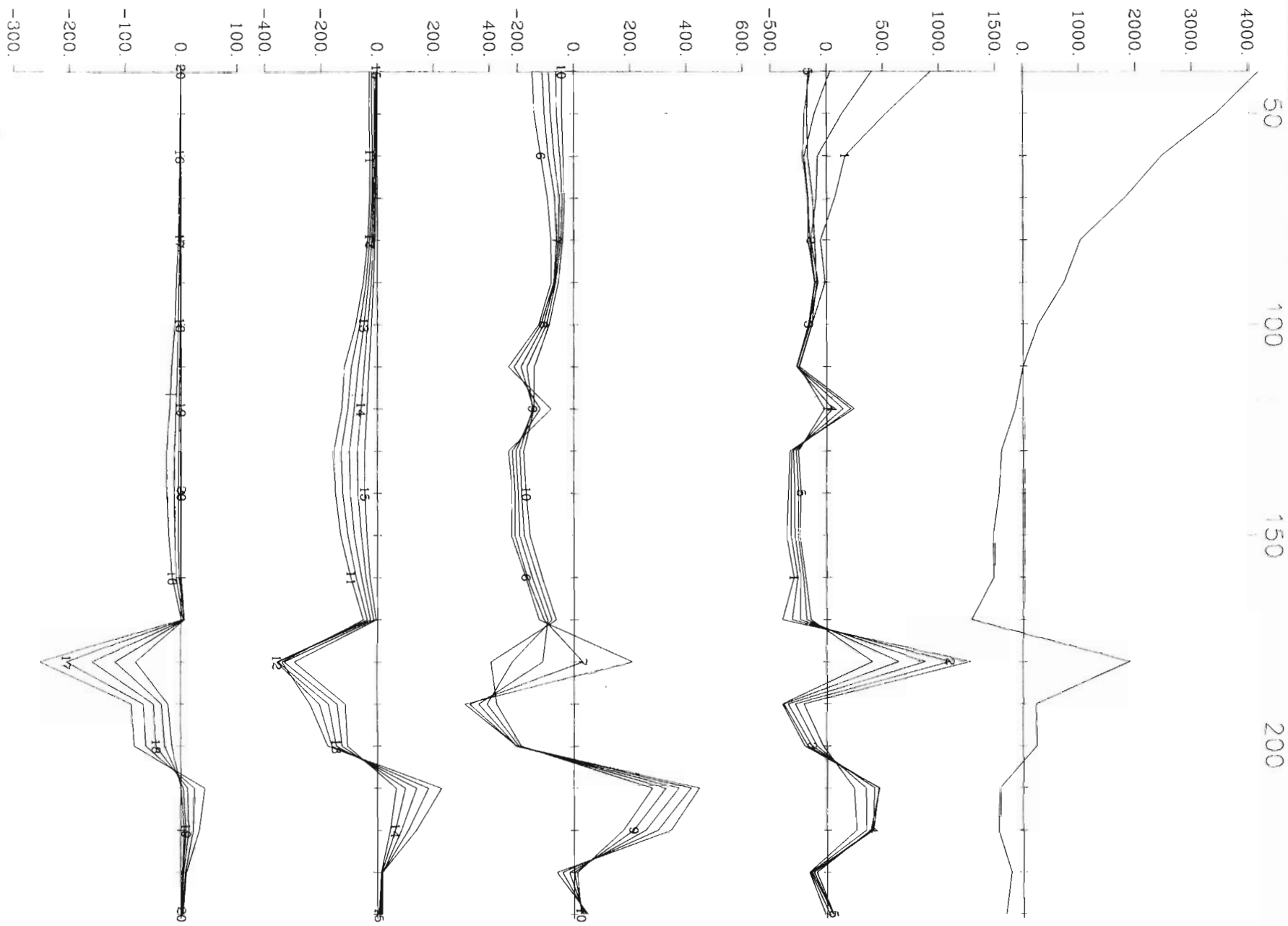
Channels 16 - 20  
(nT/sec)

Channels 11 - 15  
(nT/sec)

Channels 6 - 10  
(nT/sec)

Channels 1 - 5  
(nT/sec)

Primary Pulse  
(nT/sec)



Pacific North West Capital Corp West Timmins Project  
 Loop WTM20, Hole WTV07-20 X Component  
 Crone Geophysics & Exploration Ltd.



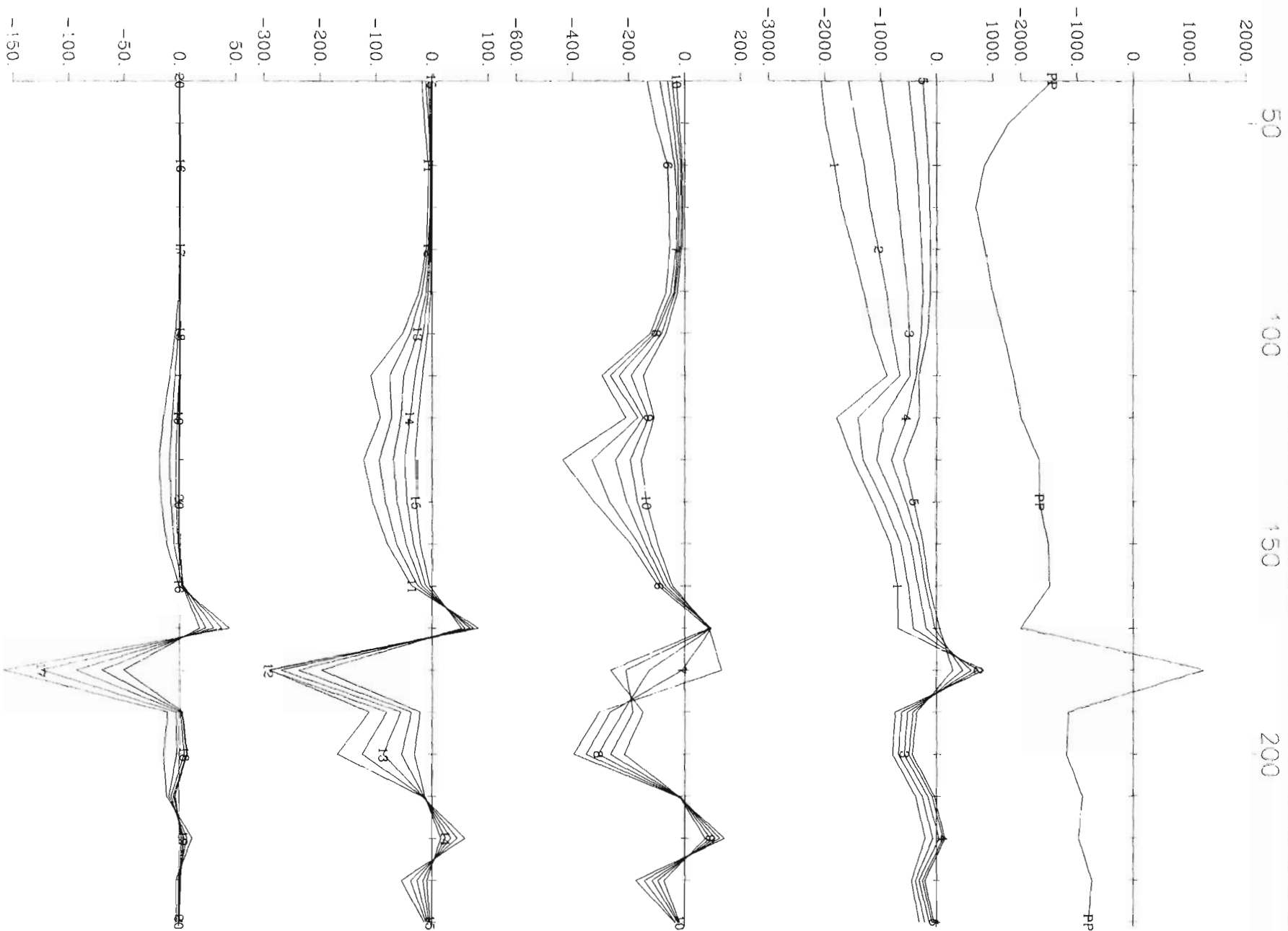
Channels 16 - 20  
(nT/sec)

Channels 11 - 15  
(nT/sec)

Channels 6 - 10  
(nT/sec)

Channels 1 - 5  
(nT/sec)

Primary Pulse  
(nT/sec)



Pacific North West Capital Corp      West Timmins Project  
Loop WTV20, Hole WTM07-20      V Component  
Crone Geophysics & Exploration Ltd.

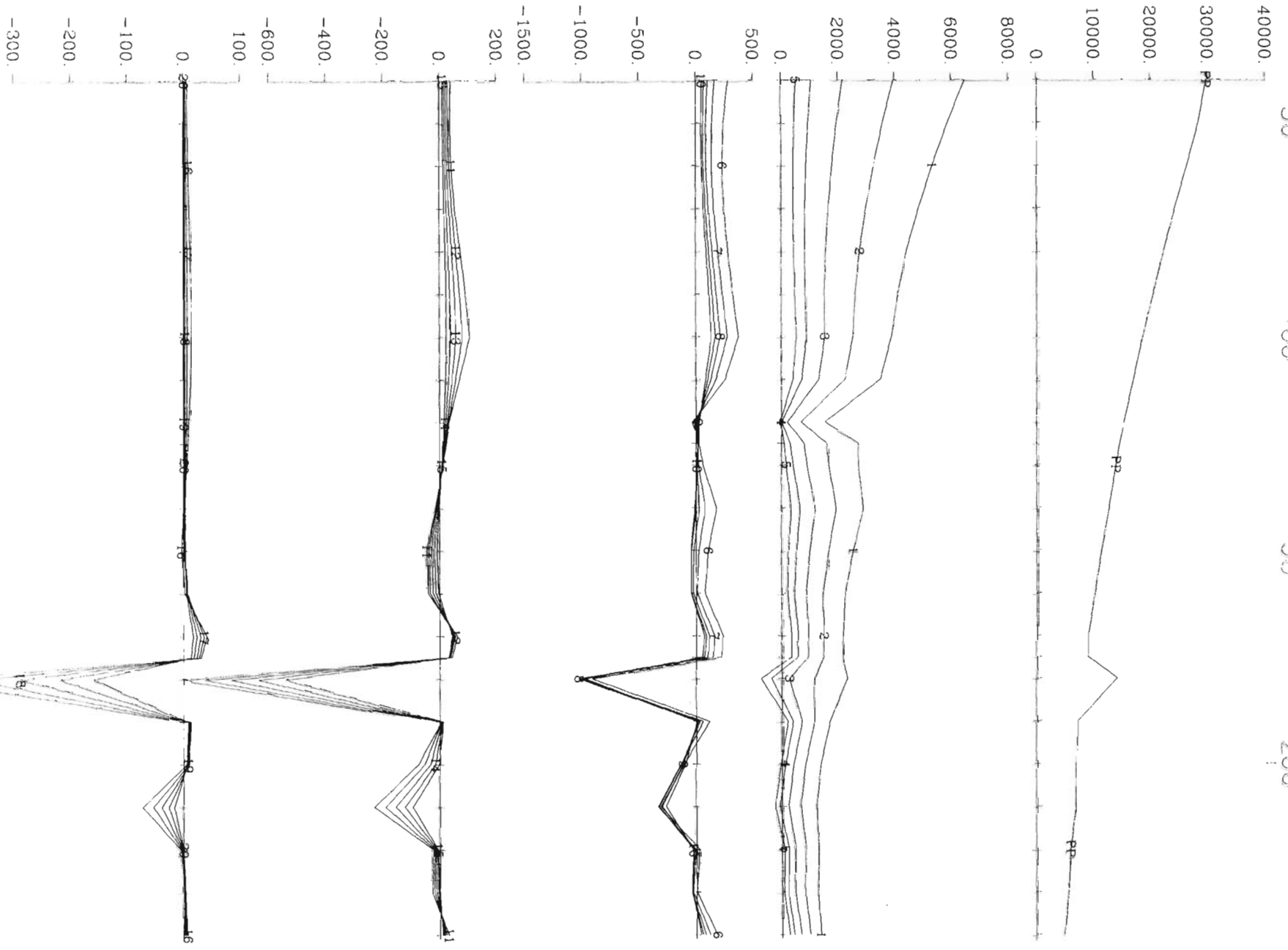
Channels 16 -- 20  
(nT/sec)

Channels 11 - 15  
(nT/sec)

Channels 6 - 10  
(nT/sec)

Channels 1 - 5  
(nT/sec)

Primary Pulse  
(nT/sec)



Pacific North West Capital Corp. West Timmins Project  
 Loop WTM20, Hole WTM07-20 Z Component  
 Crone Geophysics & Exploration Ltd.

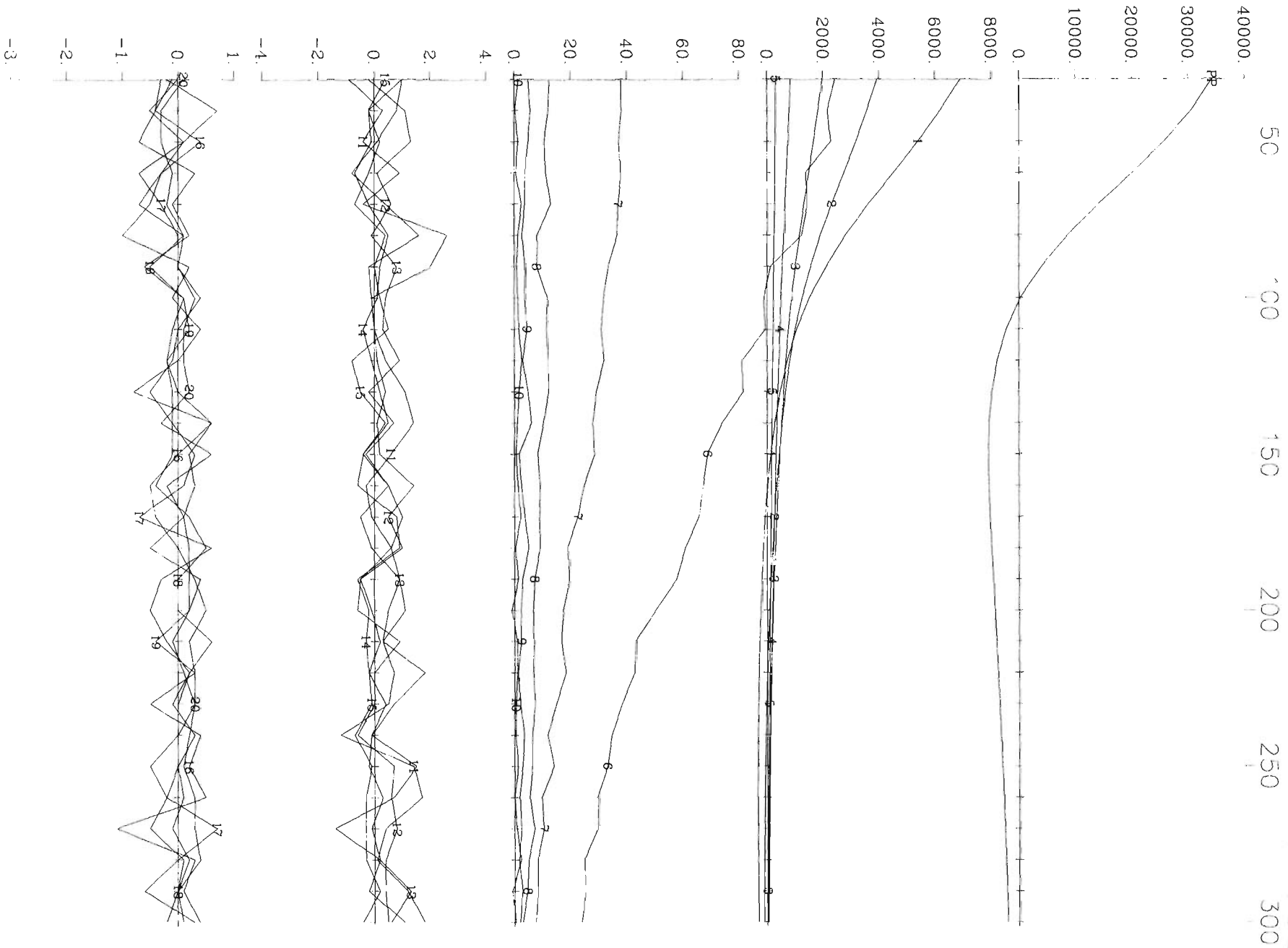
Channels 16 - 20  
(nT/sec)

Channels 11 - 15  
(nT/sec)

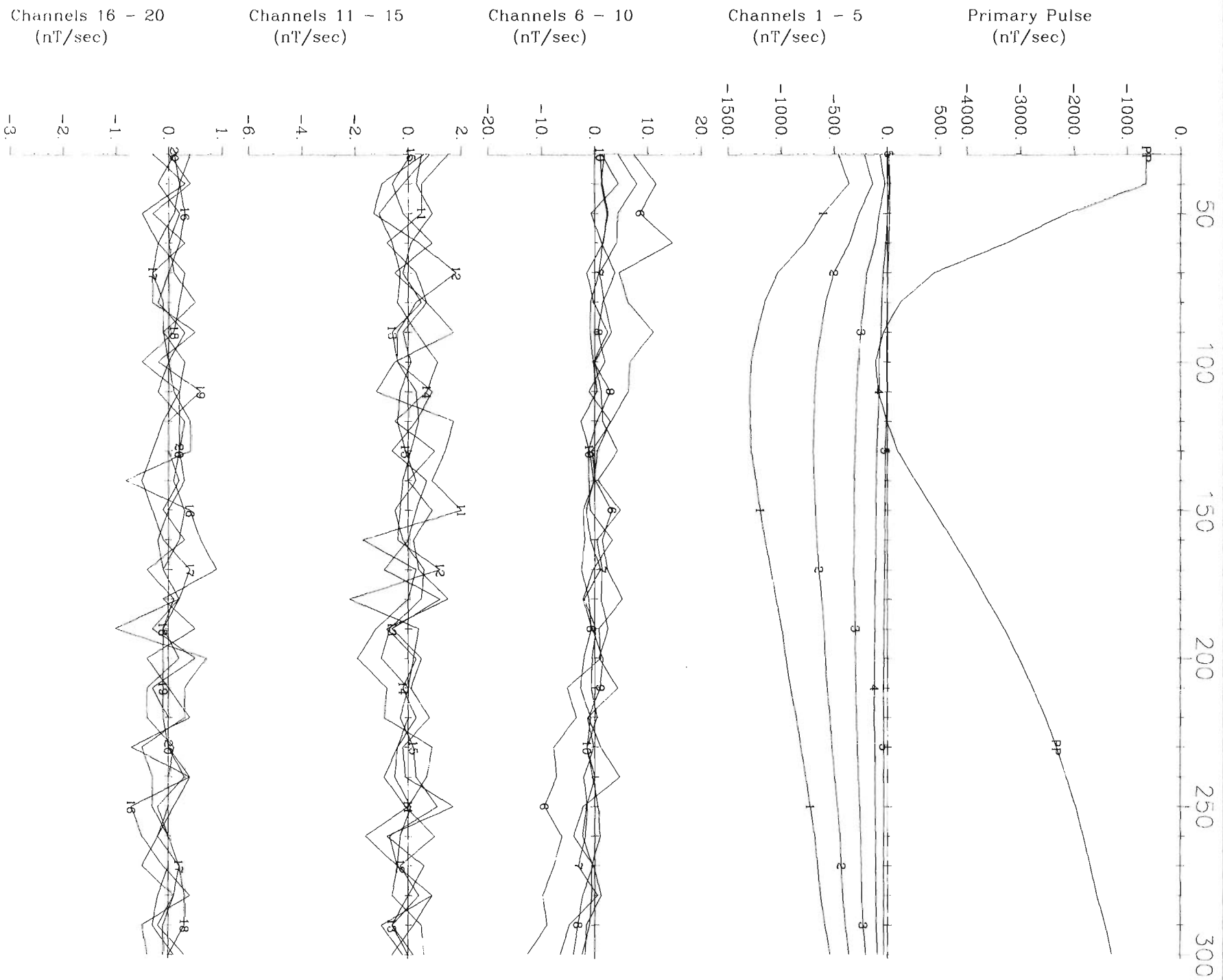
Channels 6 - 10  
(nT/sec)

Channels 1 - 5  
(nT/sec)

Primary Pulse  
(nT/sec)



Pacific North West Capital Corp. West Timmins Project  
Loop WTM21, Hole WTM07-21 X Component  
Crone Geophysics & Exploration Ltd.



Pacific North West Capital Corp West Timmins Project  
 Loop WTM21, Hole WTM07-21 Y Component  
 Crone Geophysics & Exploration Ltd.

50 100 150 200 250 300

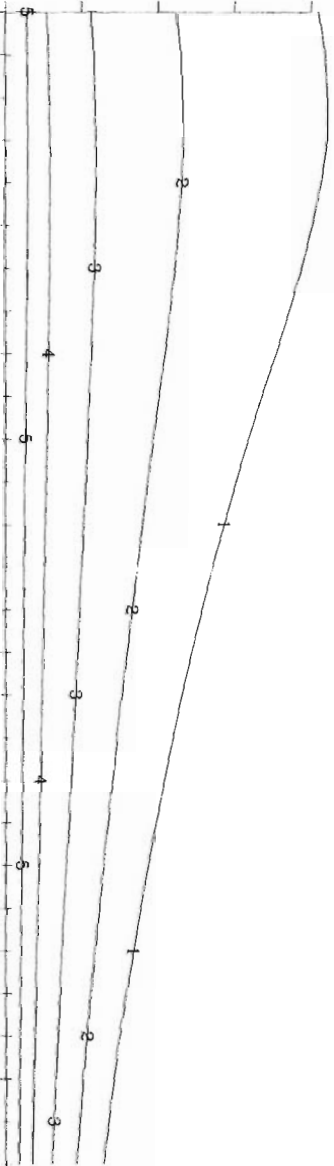
Primary Pulse  
(nT/sec)

40000.  
30000.  
20000.  
10000.  
0.



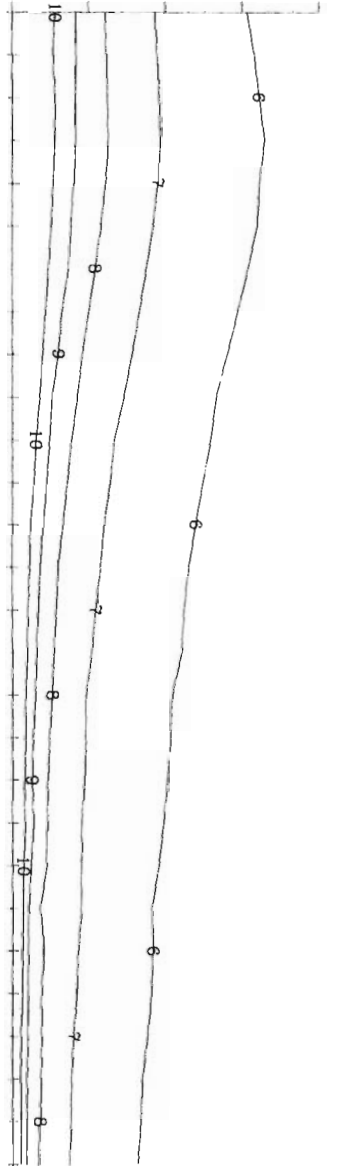
Channels 1 - 5  
(nT/sec)

4000.  
3000.  
2000.  
1000.  
0.



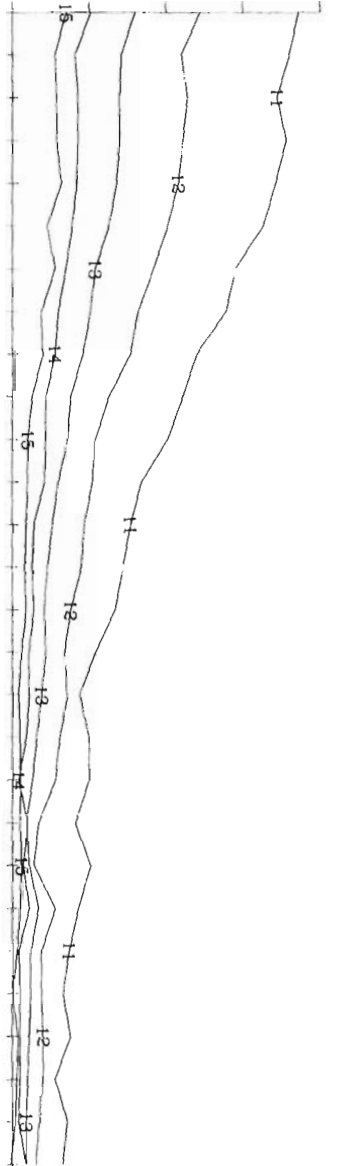
Channels 6 - 10  
(nT/sec)

200.  
150.  
100.  
50.  
0.



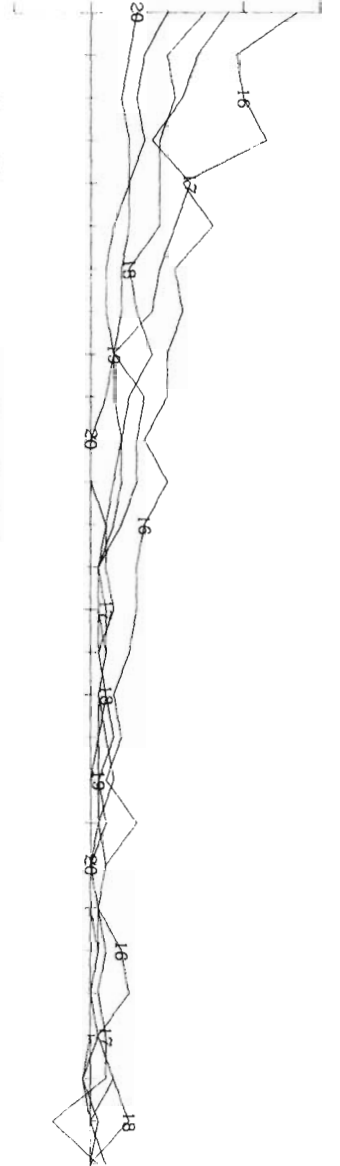
Channels 11 - 15  
(nT/sec)

20.  
15.  
10.  
5.  
0.



Channels 16 - 20  
(nT/sec)

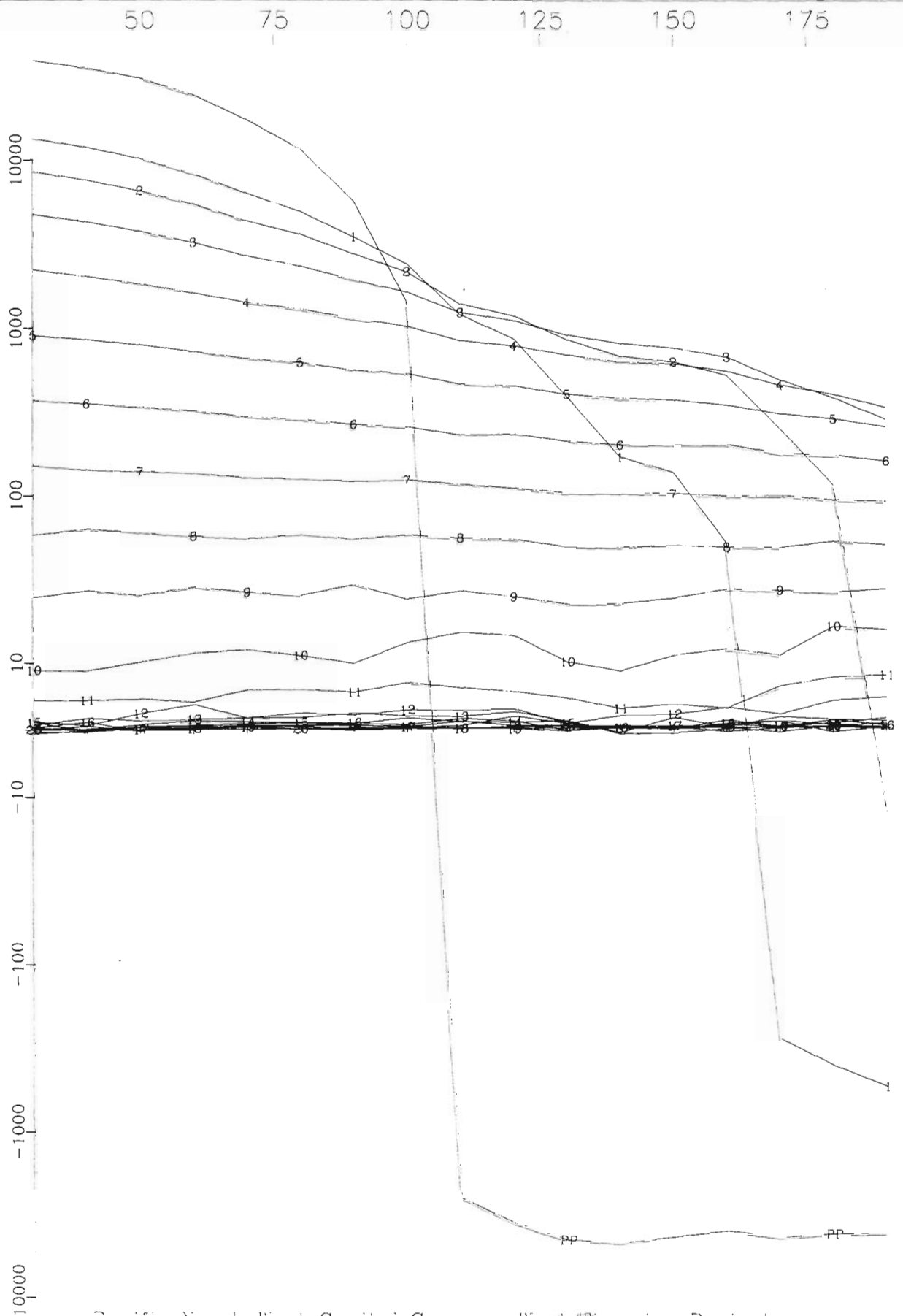
3.  
2.  
1.  
0.  
-1.



Pacific North West Capital Corp West Timmins Project  
Loop WTM21, Hole WTM07--21 Z Component  
Crone Geophysics & Exploration Ltd.

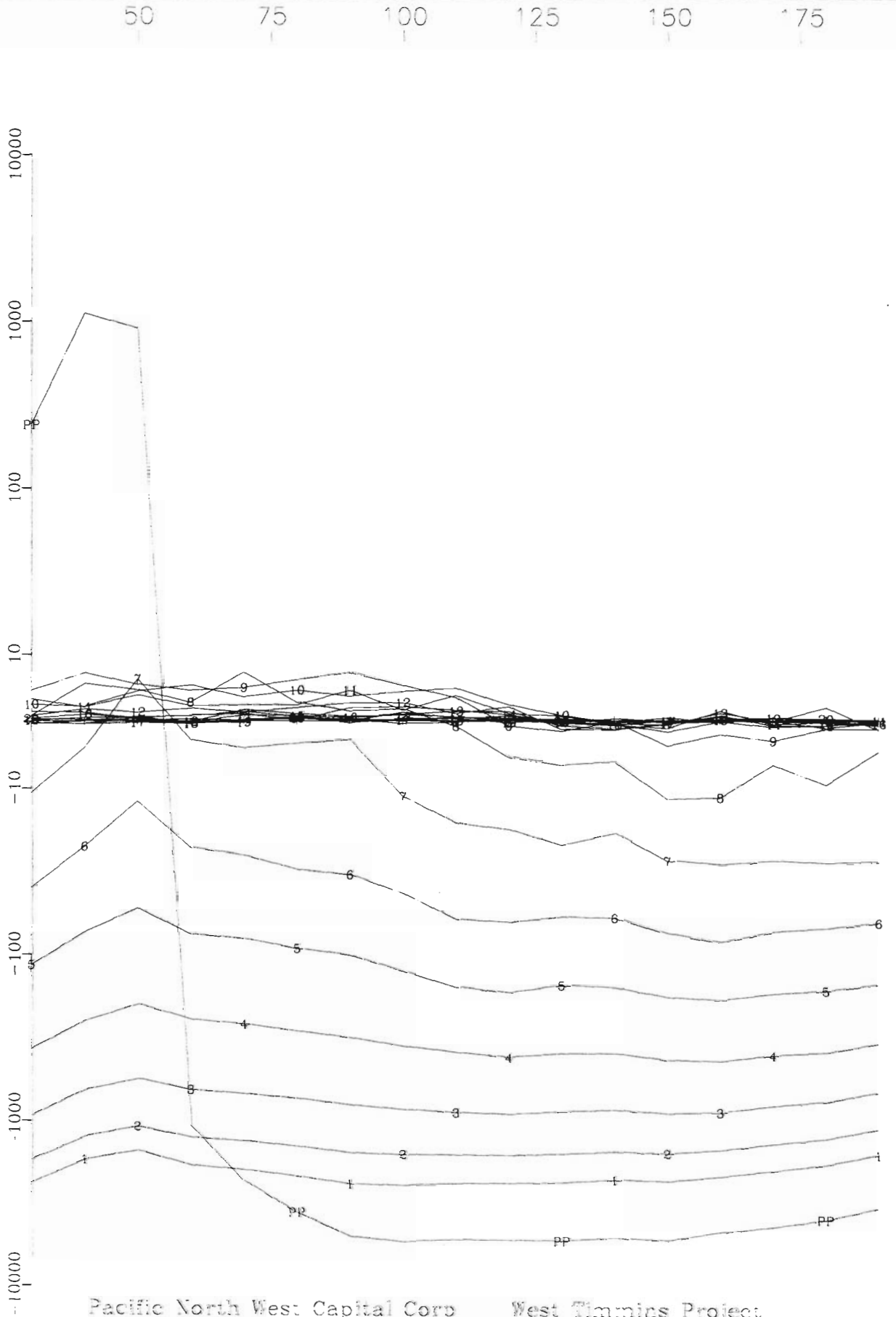
**Appendix C:**  
Lin-Log Pulse EM Data Profiles

Primary Pulse and 20 Off-time Channels  
(nT/sec)



Pacific North West Capital Corp West Timmins Project  
Loop WTM09, Hole WTM05-09 X Component  
Crone Geophysics & Exploration Ltd.

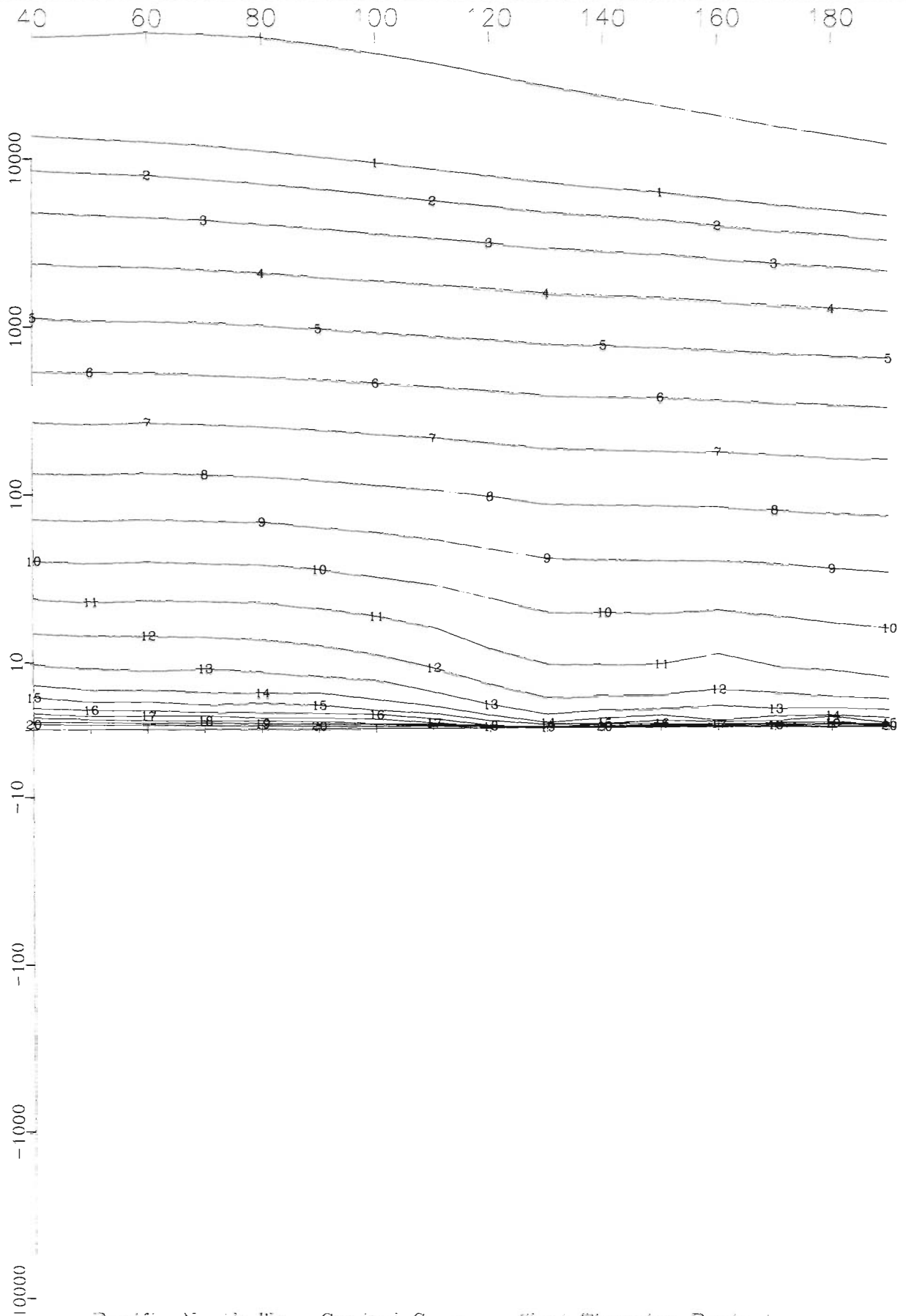
Primary Pulse and 20 Off-time Channels  
(n<sup>2</sup>/sec)



Pacific North West Capital Corp      West Timmins Project  
Loco WTM09, Hole WTM05-09      Y Component  
Crone Geophysics & Exploration Ltd.

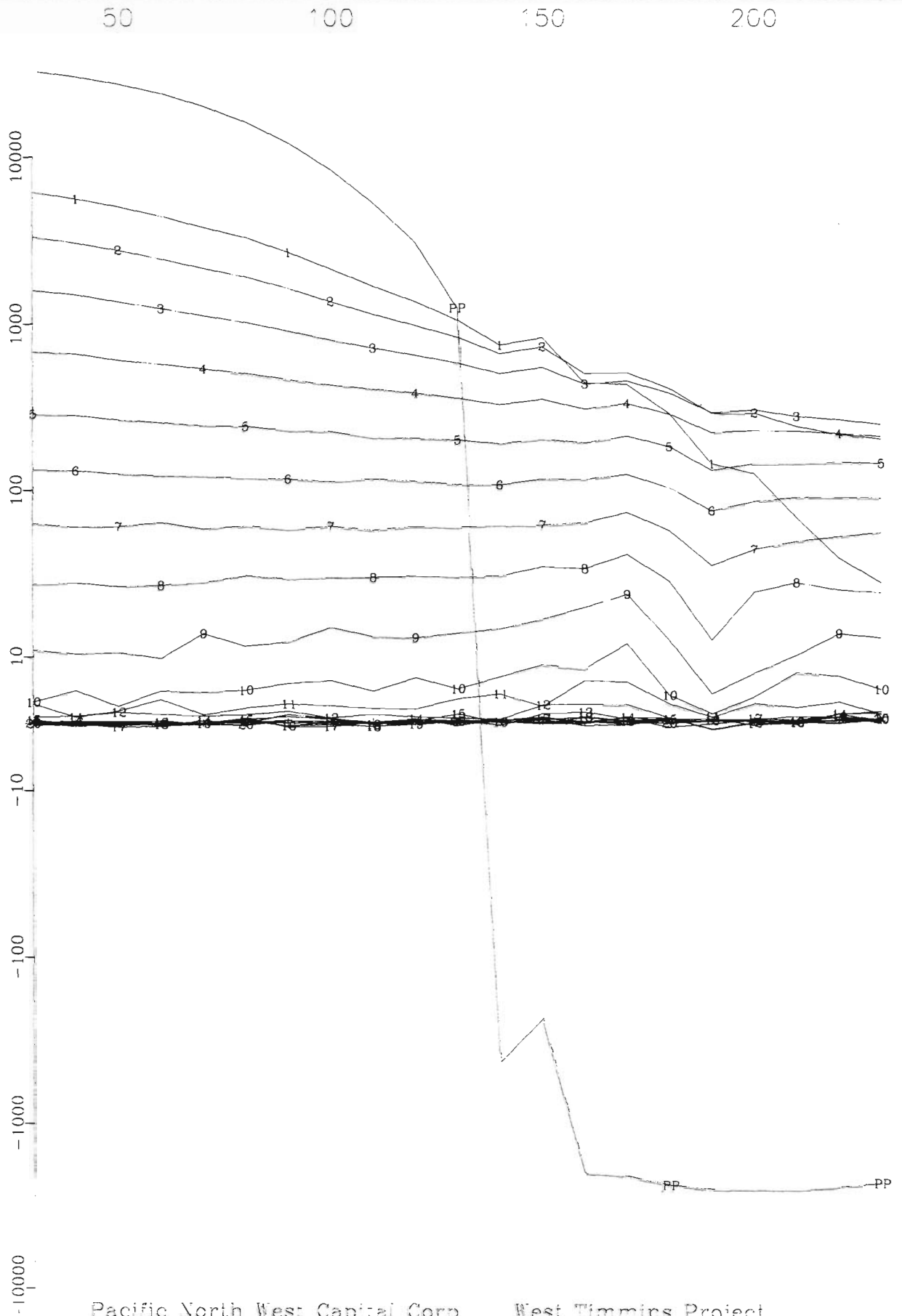


Primary Pulse and 20 Off-Lime Channels  
(nT/sec)



Pacific North West Capital Corp      West Timmins Project  
Loop WTM09 Hole WTM05-09      Z Component  
Crone Geophysics & Exploration Ltd.

Primary Pulse and 20 Off-Time Channels  
(nT/sec)



Pacific North West Capital Corp    West Timmins Project  
Loop WTM11. Hole WTM05-11    X Component  
Crone Geophysics & Exploration Ltd.

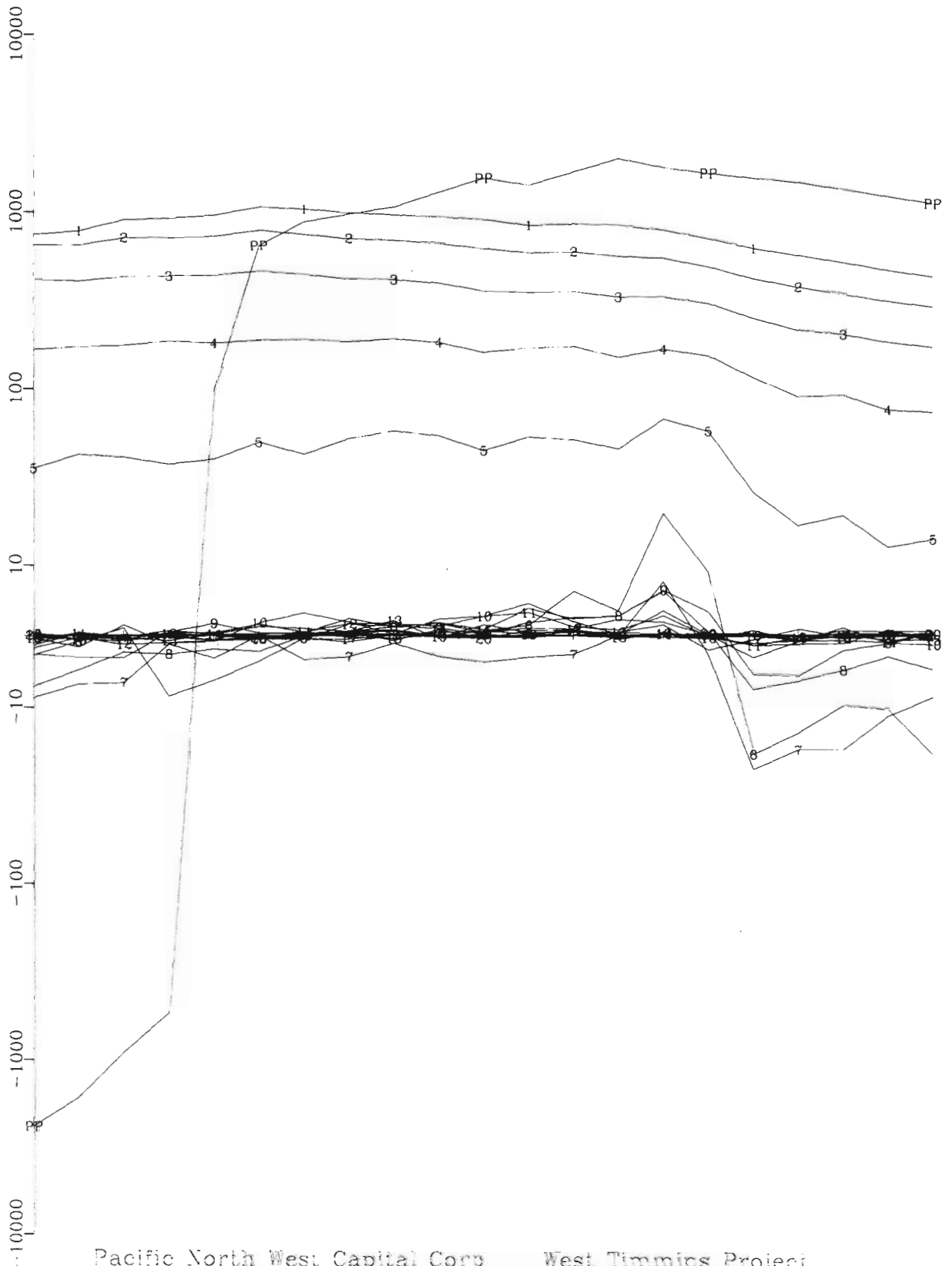
50

100

150

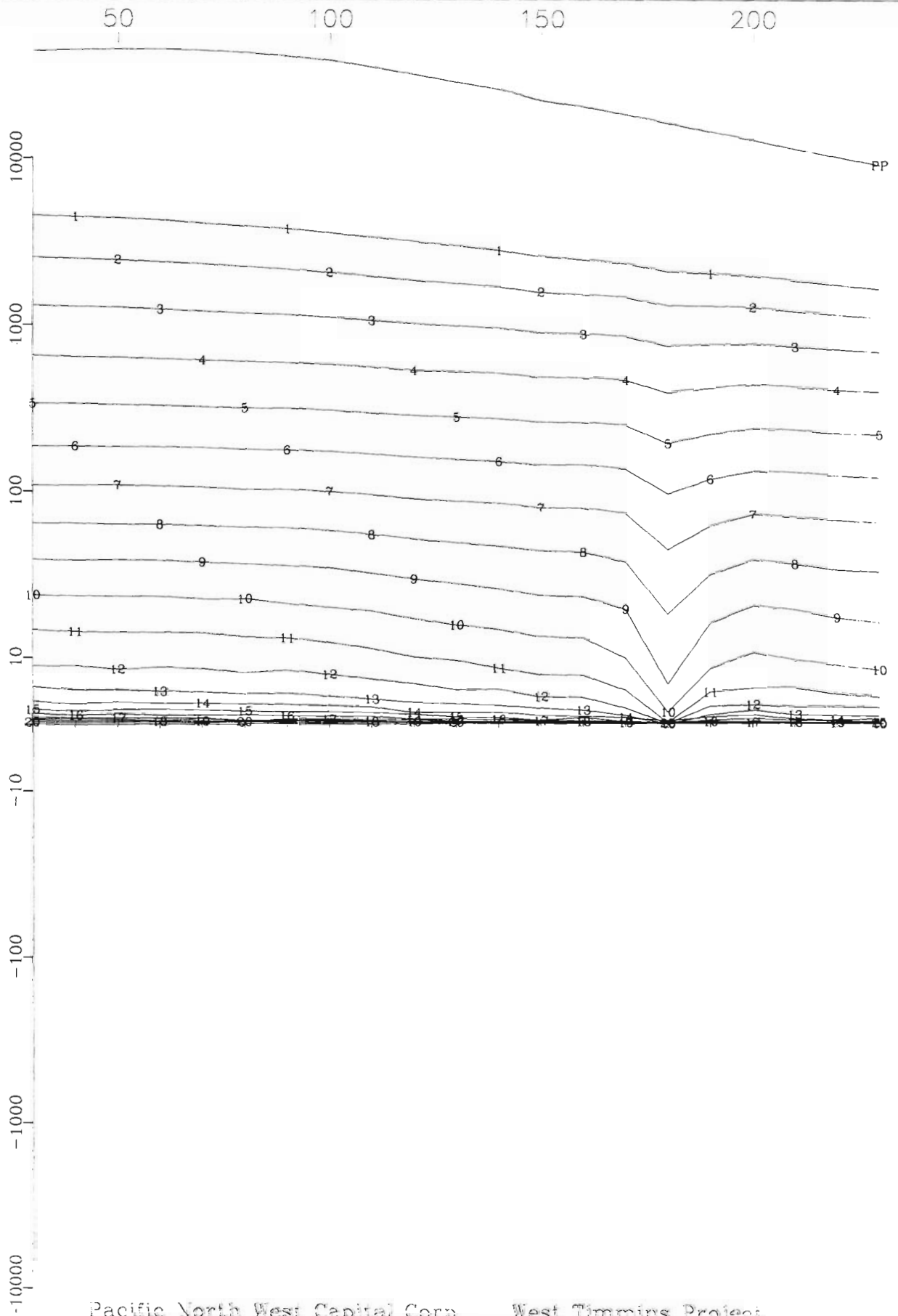
200

Primary Pulse and 20 Off-time Channels  
(nT/sec)



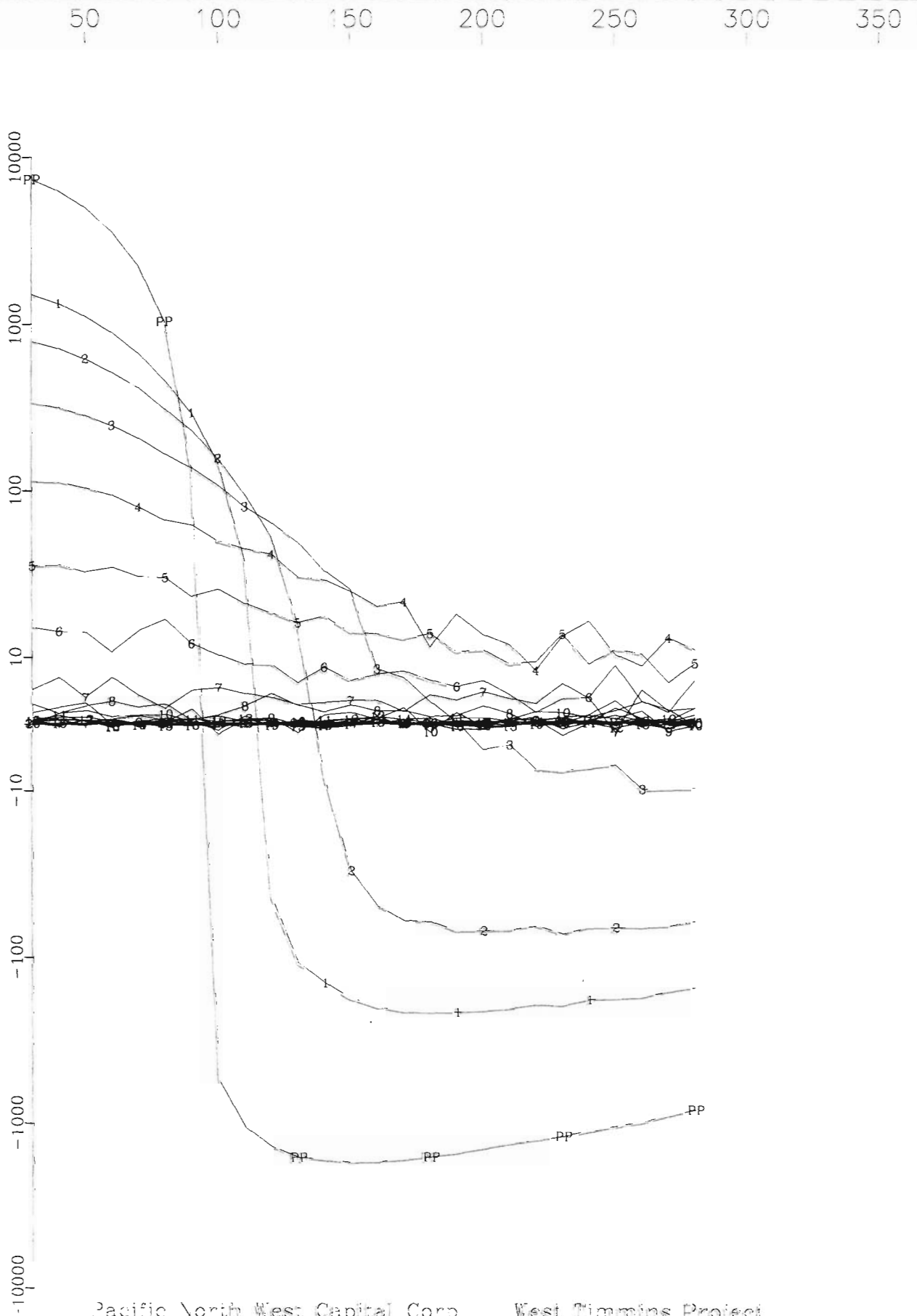
Pacific North West Capital Corp      West Timmins Project  
Loop WTM11, Hole WTM05-11      Y Component  
Crone Geophysics & Exploration Ltd.

Primary Pulse and 20 Off-time Channels  
(nT/sec)



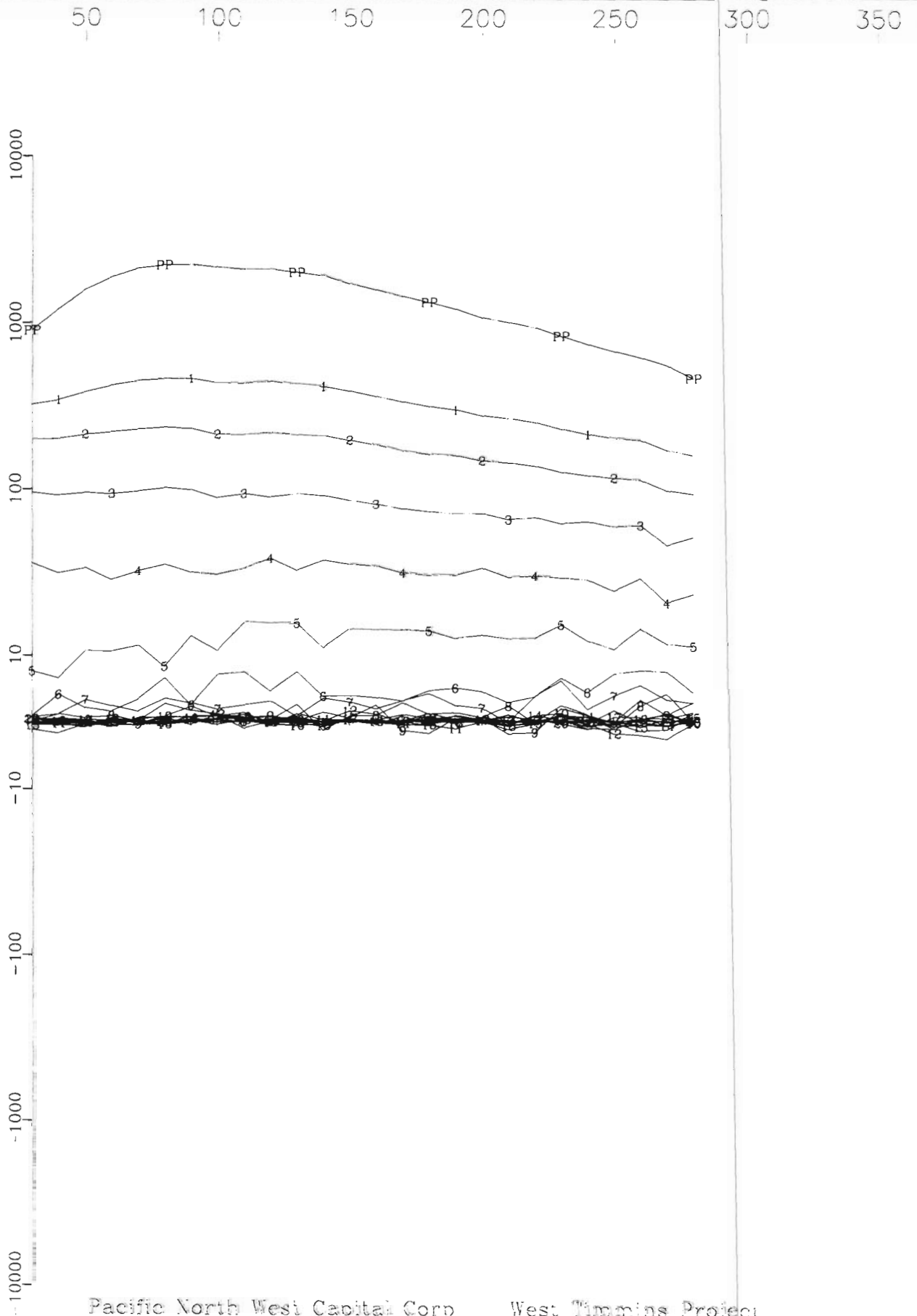
Pacific North West Capital Corp      West Timmins Project  
Loop WTM11, Hole WTM05-11      Z Component  
Crone Geophysics & Exploration Ltd.

Primary Pulse and 20 Off-time Channels  
(nT/sec)



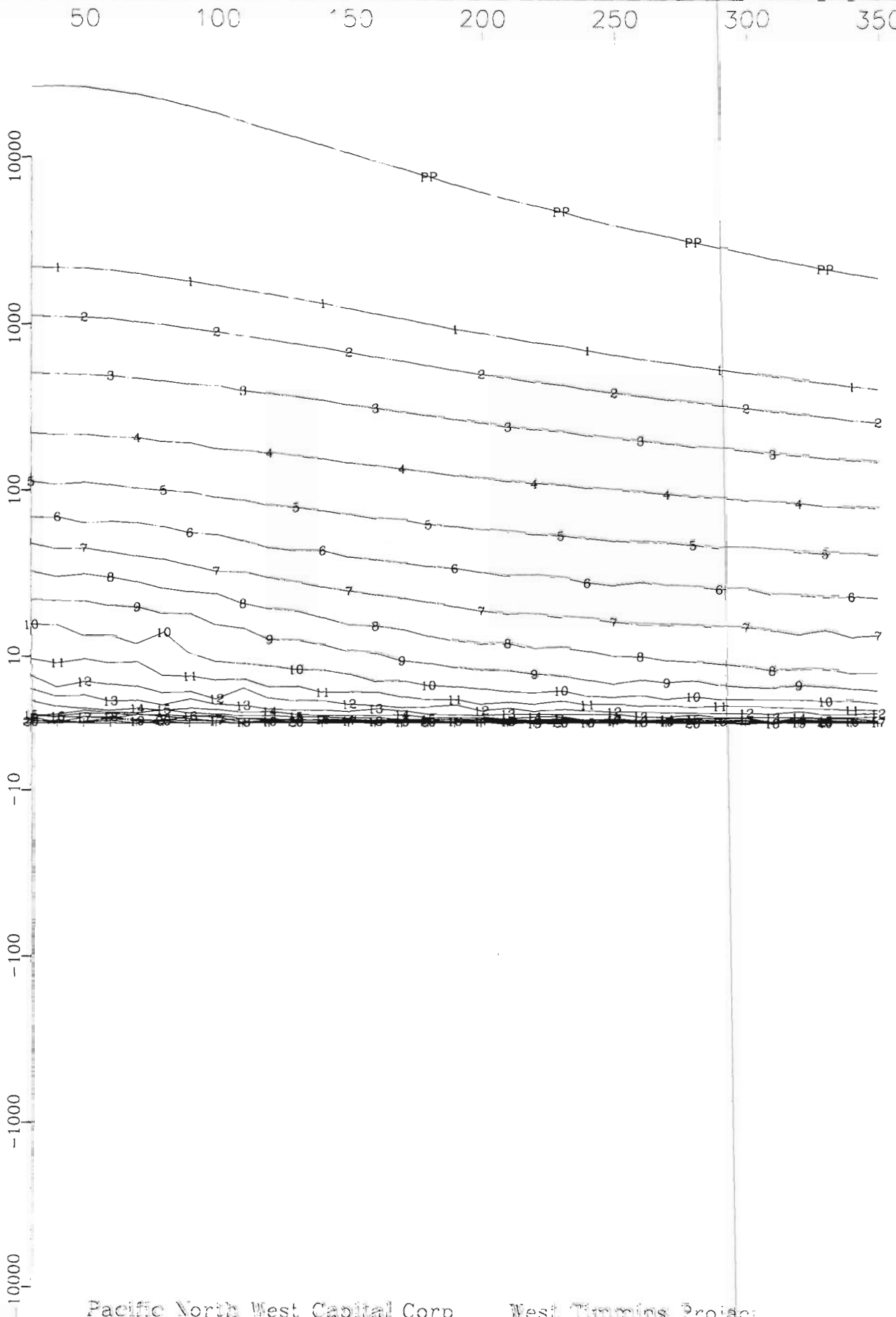
Pacific North West Capital Corp West Timmins Project  
Loop WTM15, Hole WTM-07-15 X Component  
Crone Geophysics & Exploration Ltd.

Primary Pulse and 20 Off-time Channels  
(nT/sec)



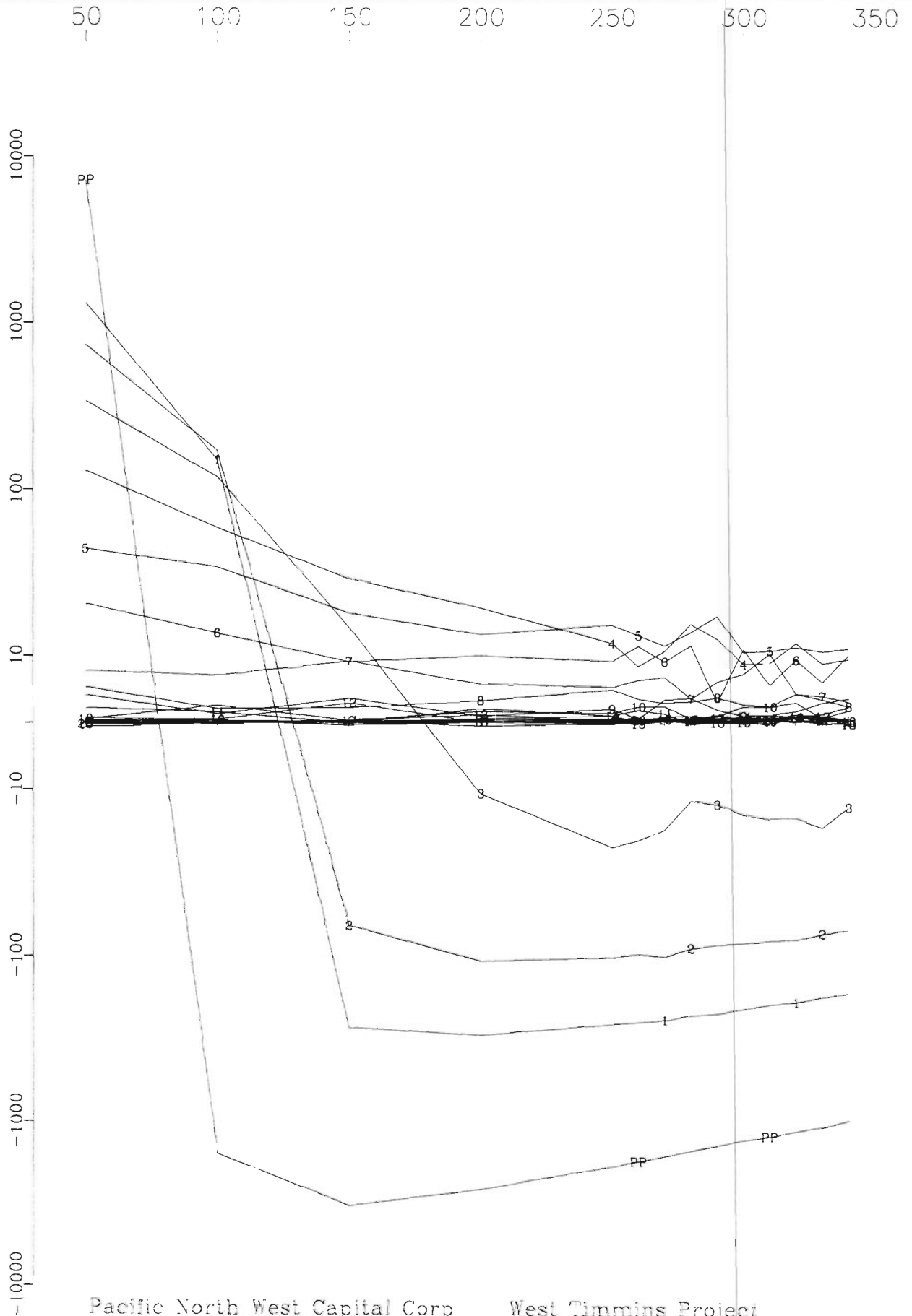
Pacific North West Capital Corp      West Timmins Project  
Loop WTM15, Hole WTM-07-15      Y Component  
Crone Geophysics & Exploration Ltd.

Primary Pulse and 20 Off-time Channels  
(nT/sec)



Pacific North West Capital Corp      West Timmins Project  
Loop WTM15, Hole WTM-07-15      Z Component  
Crone Geophysics & Exploration Ltd.

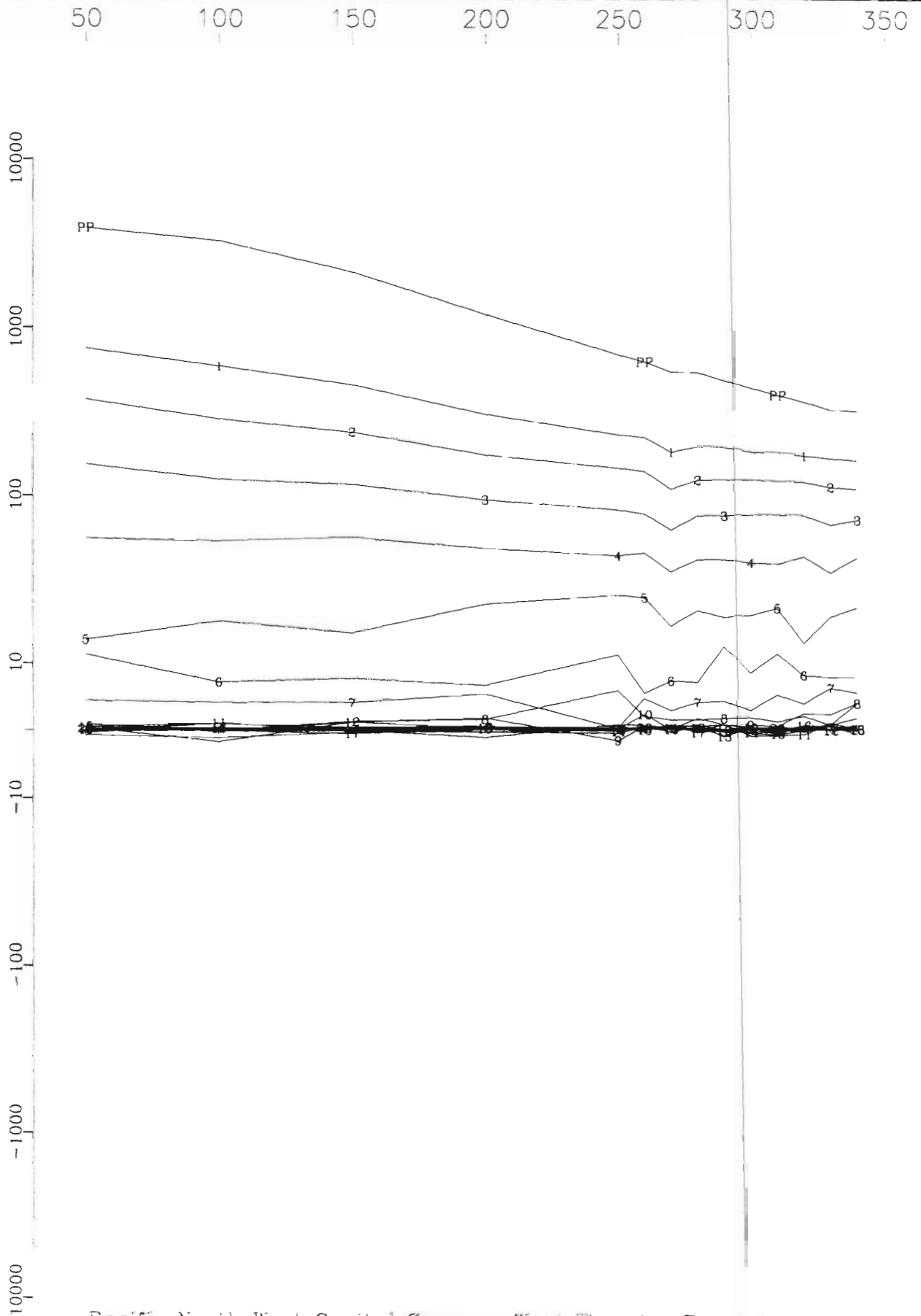
Primary Pulse and 20 Off-time Channels  
(nT/sec)



Pacific North West Capital Corp    West Timmins Project  
Loop WTM16. Hole WTM-07-15    X Component  
Crone Geophysics & Exploration Ltd.

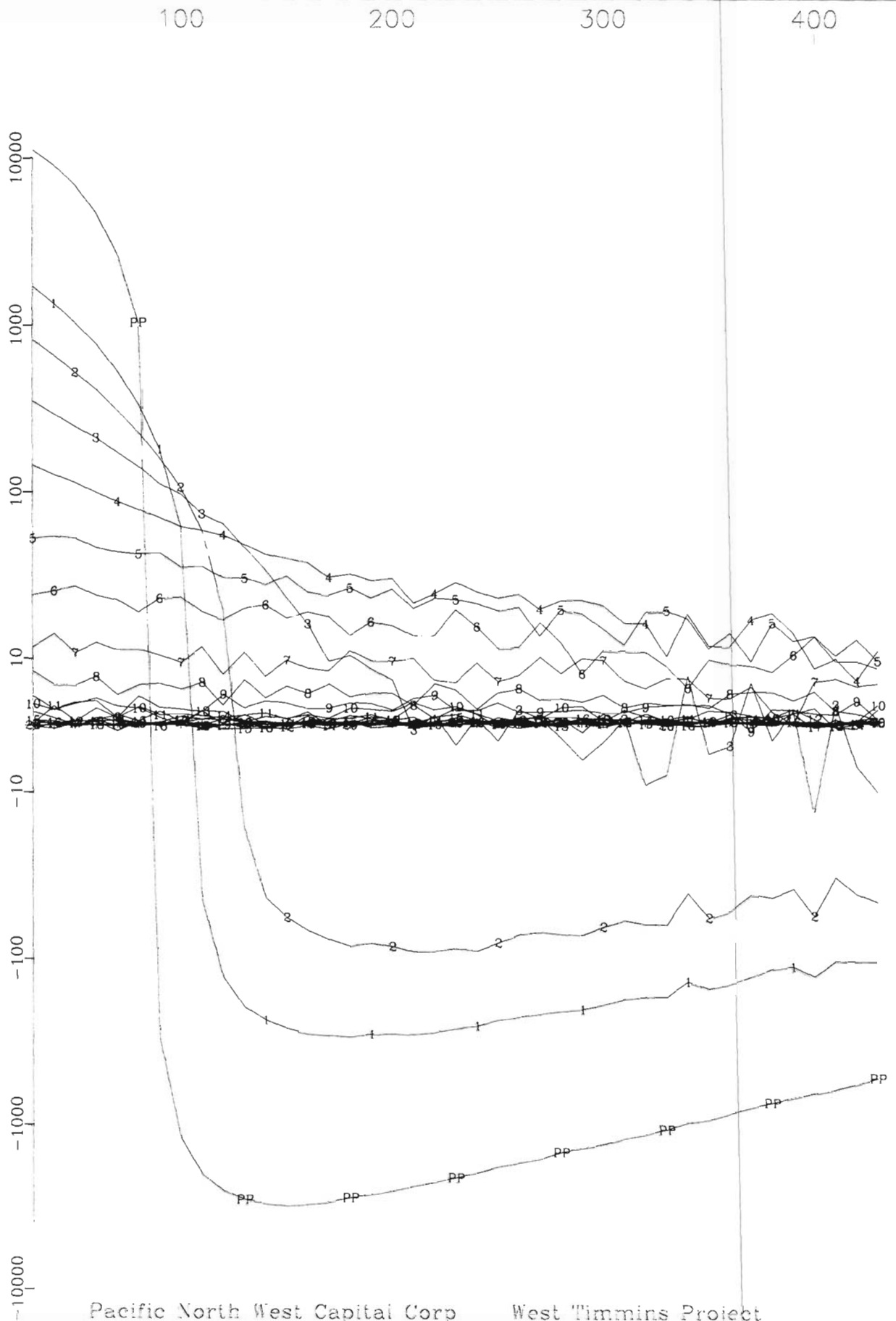


Primary Pulse and 20 Off-time Channels  
(nT/sec)



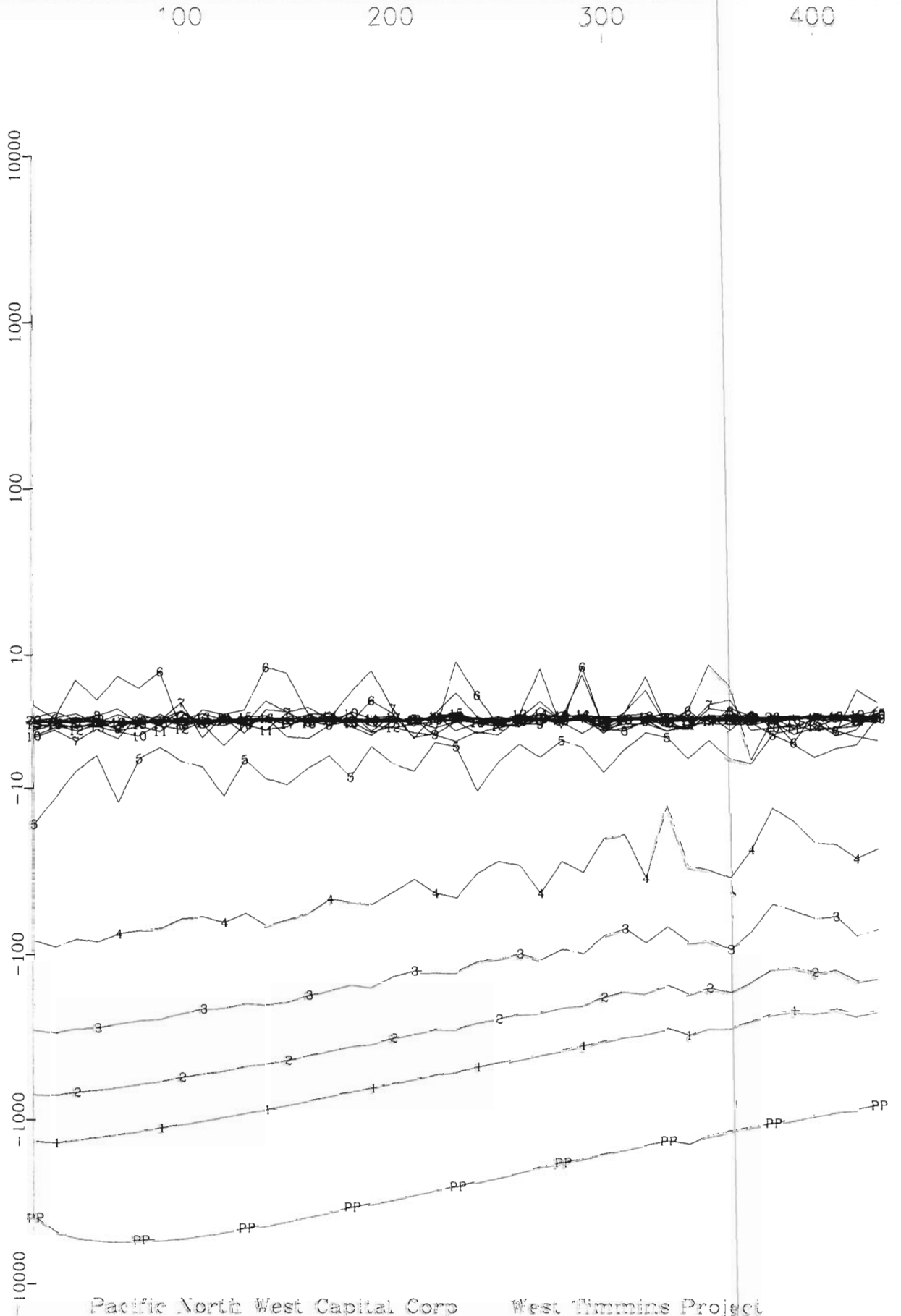
Pacific North West Capital Corp      West Timmins Project  
Loop WTM16, Hole WTM-07-15      Y Component  
Crone Geophysics & Exploration Ltd.

Primary Pulse and 20 Off-time Channels  
(nT/sec)



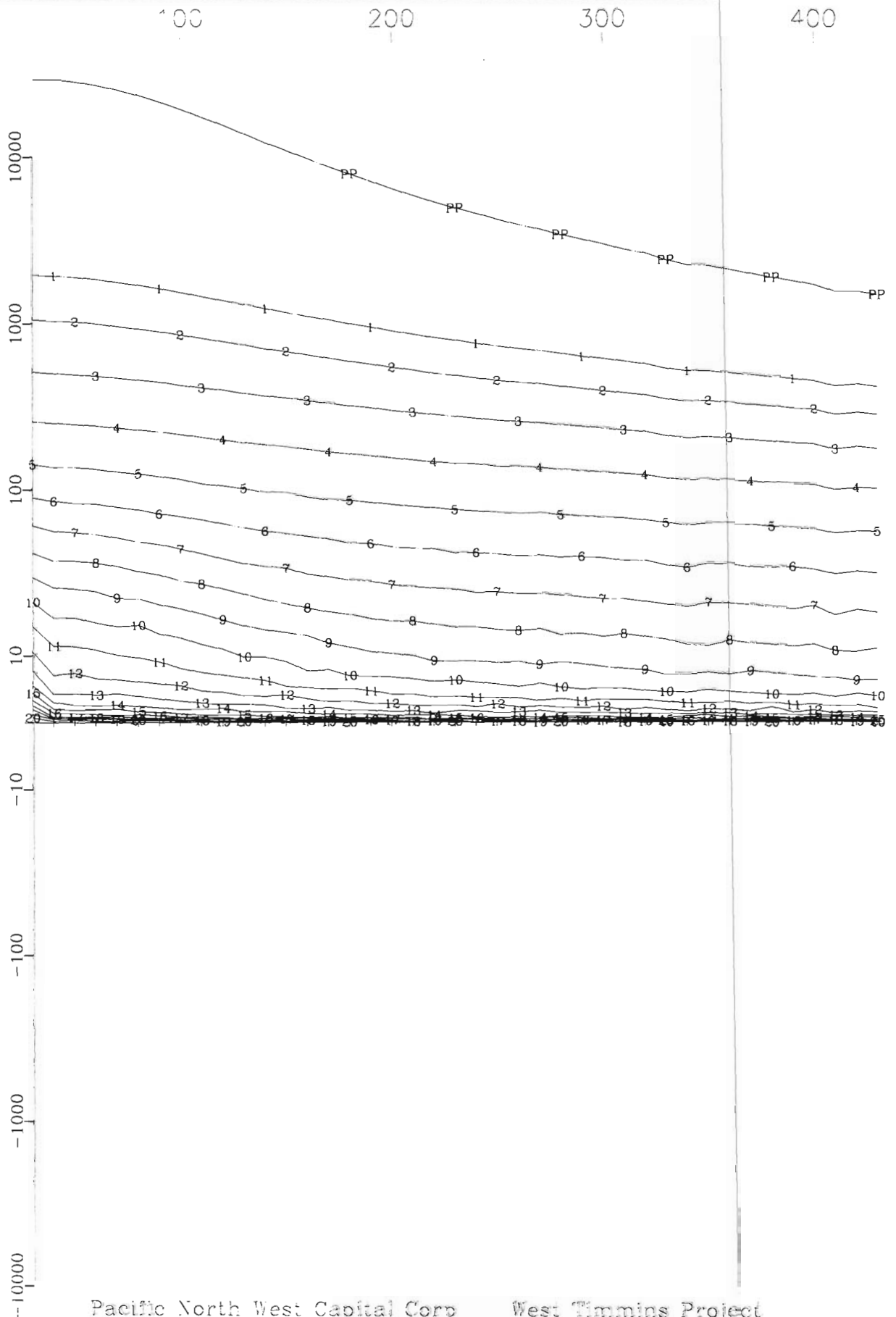
Pacific North West Capital Corp West Timmins Project  
Loop WTM16, Hole WTM-07-16 X Component  
Crone Geophysics & Exploration Ltd.

Primary Pulse and 20 Off-time Channels  
(nT/sec)



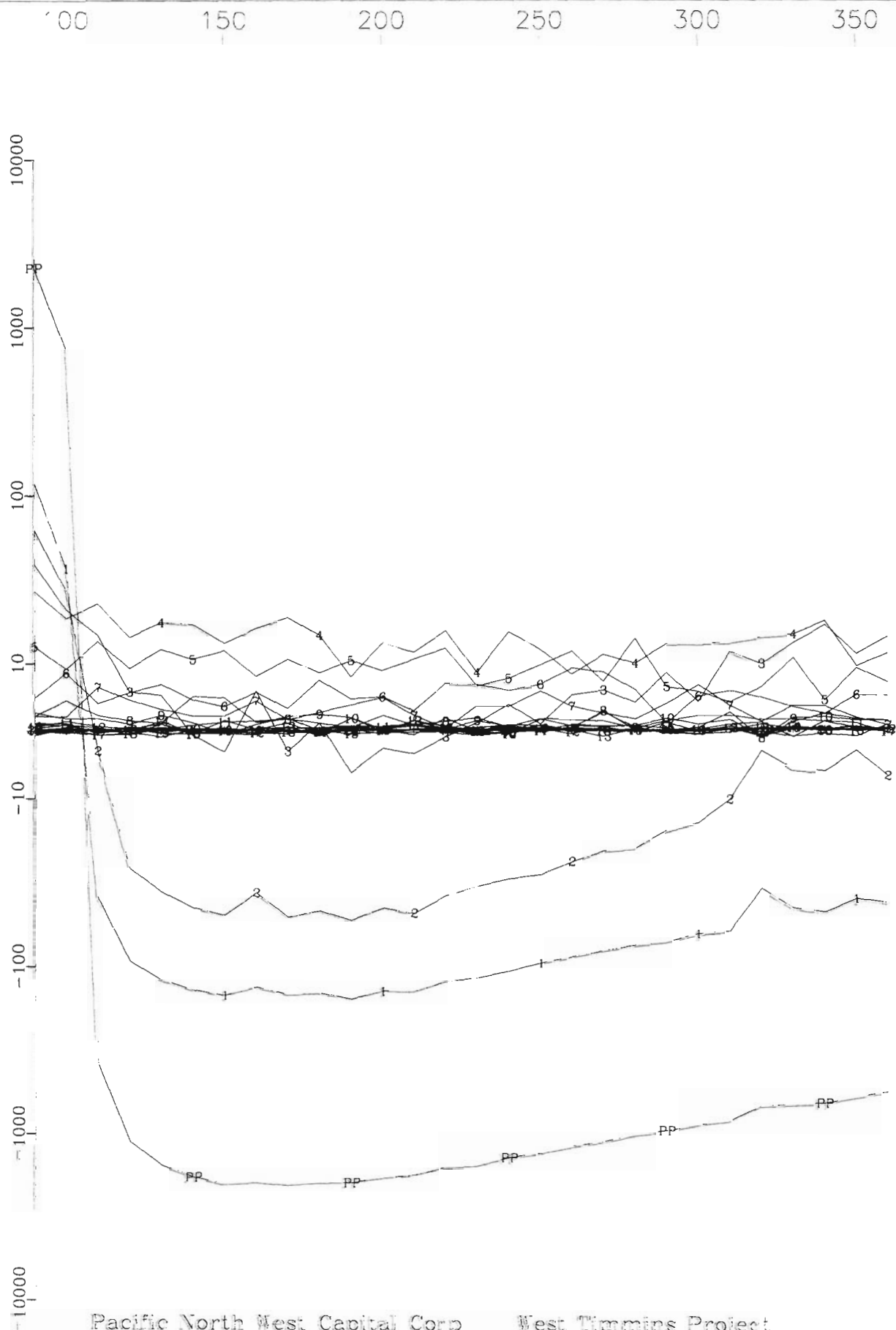
Pacific North West Capital Corp West Timmins Project  
Loop WTM16, Hole WTM-07-16 Y Component  
Crone Geophysics & Exploration Ltd.

Primary Pulse and 20 Off-time Channels  
(nT/sec)



Pacific North West Capital Corp    West Timmins Project  
Loop WTM16 Hole WTM-07-16    Z Component  
Crone Geophysics & Exploration Ltd.

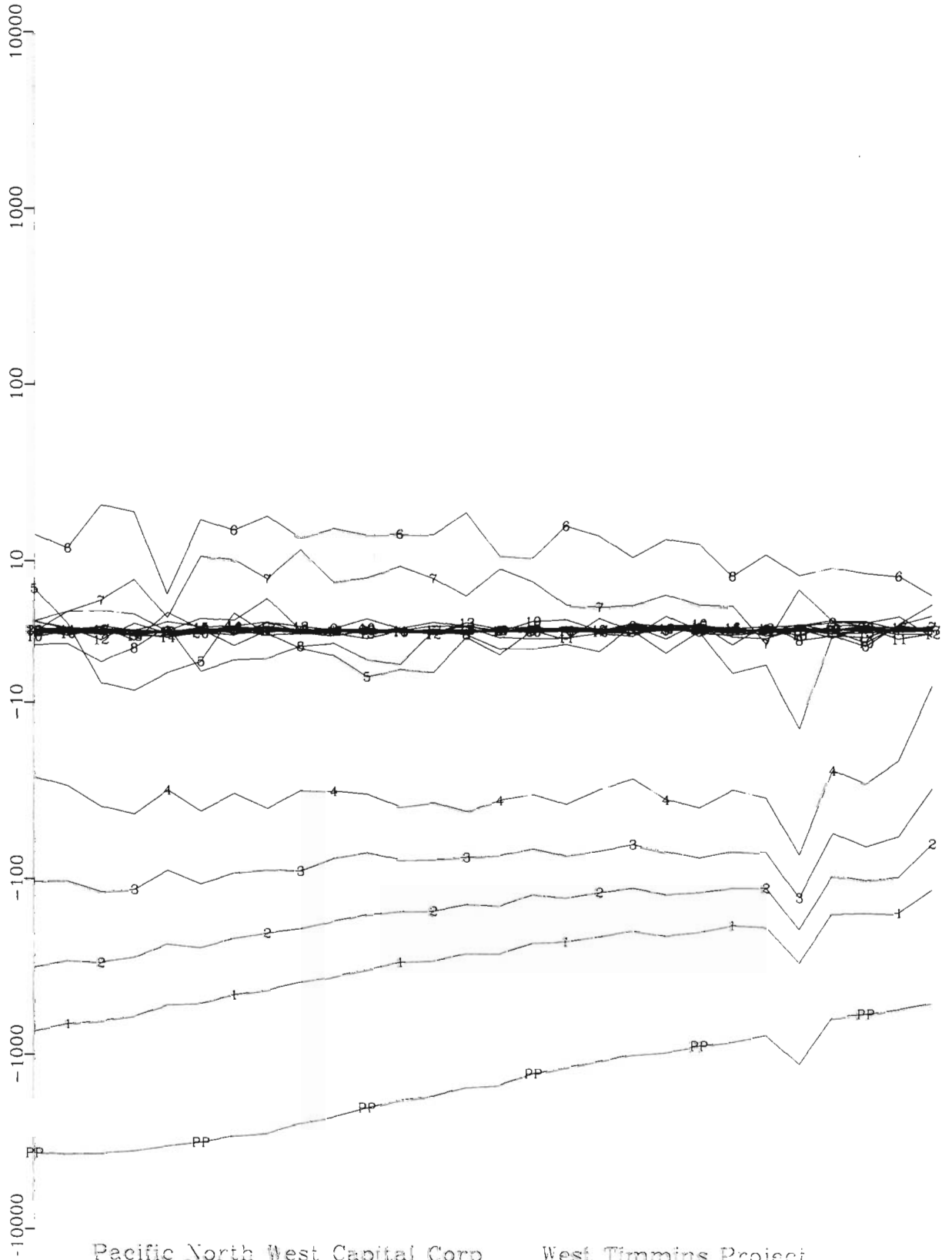
Primary Pulse and 20 Off-time Channels  
(nT/sec)



Pacific North West Capital Corp      West Timmins Project  
Loop WTM17, Hole WTM-07-17      X Component  
Crone Geophysics & Exploration Ltd.

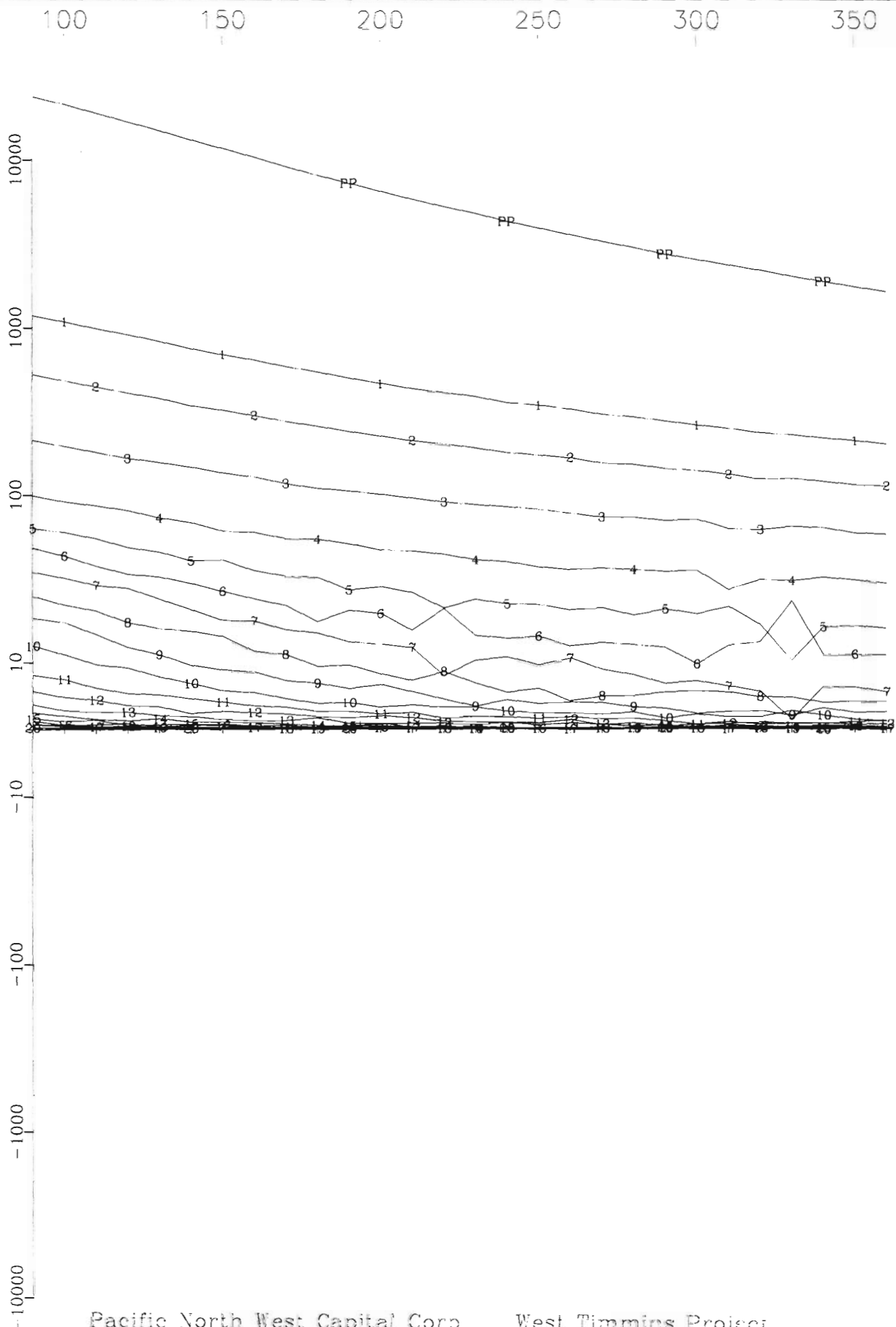
100 150 200 250 300 350

Primary Pulse and 20 Off-time Channels  
(nT/sec)



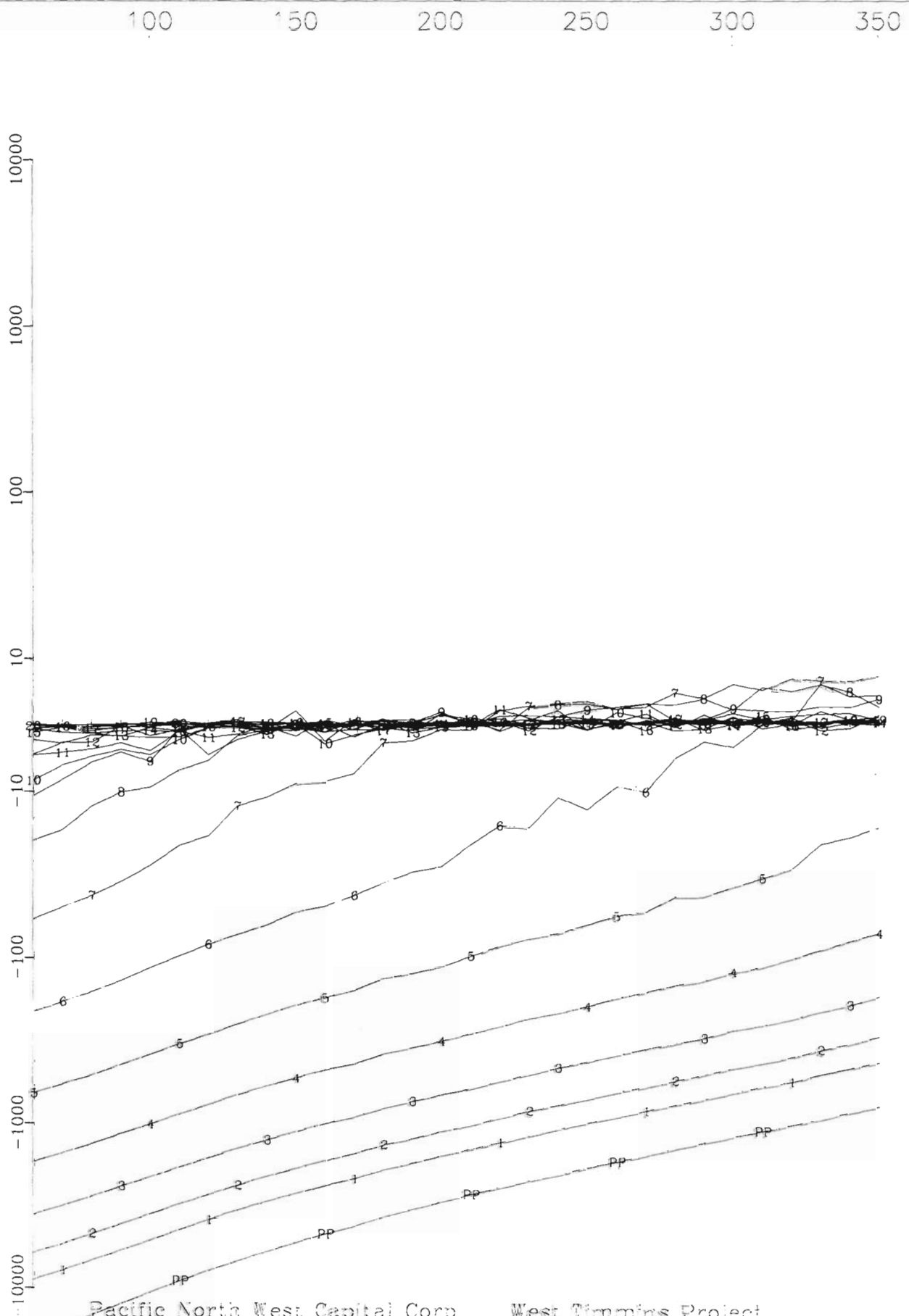
Pacific North West Capital Corp      West Timmins Project  
Loop WTM17. Hole WTM-07-17      Y Component  
Crone Geophysics & Exploration Ltd.

Primary Pulse and 20 Off-time Channels  
(nT/sec)



Pacific North West Capital Corp      West Timmins Project  
Loop WTM17, Hole WTM-07-17      Z Component  
Crone Geophysics & Exploration Ltd.

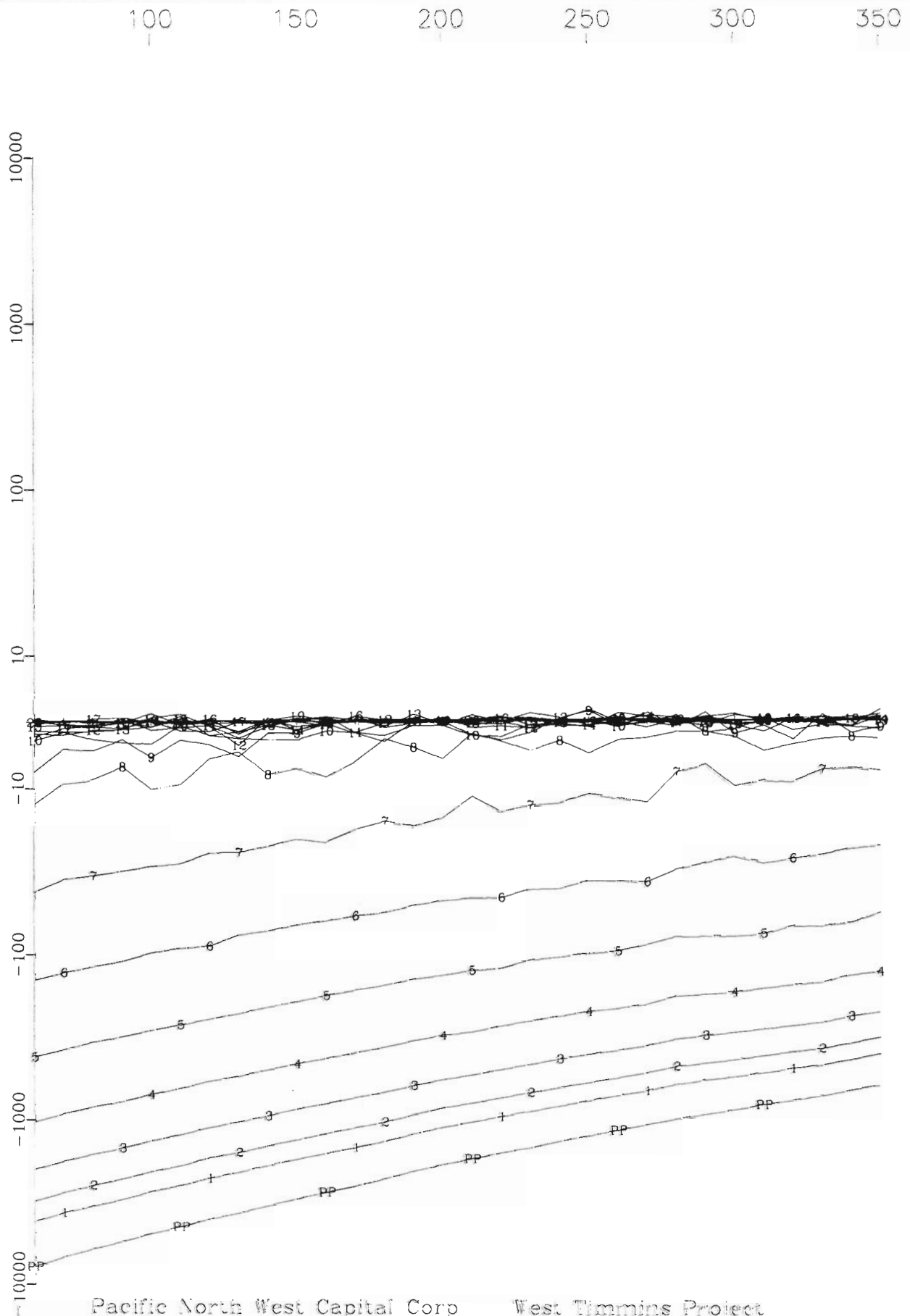
Primary Pulse and 20 Off-time Channels  
(nT/sec)



Pacific North West Capital Corp      West Timmins Project  
Loop WTM18, Hole WTM07-18      X Component  
Crone Geophysics & Exploration Ltd.

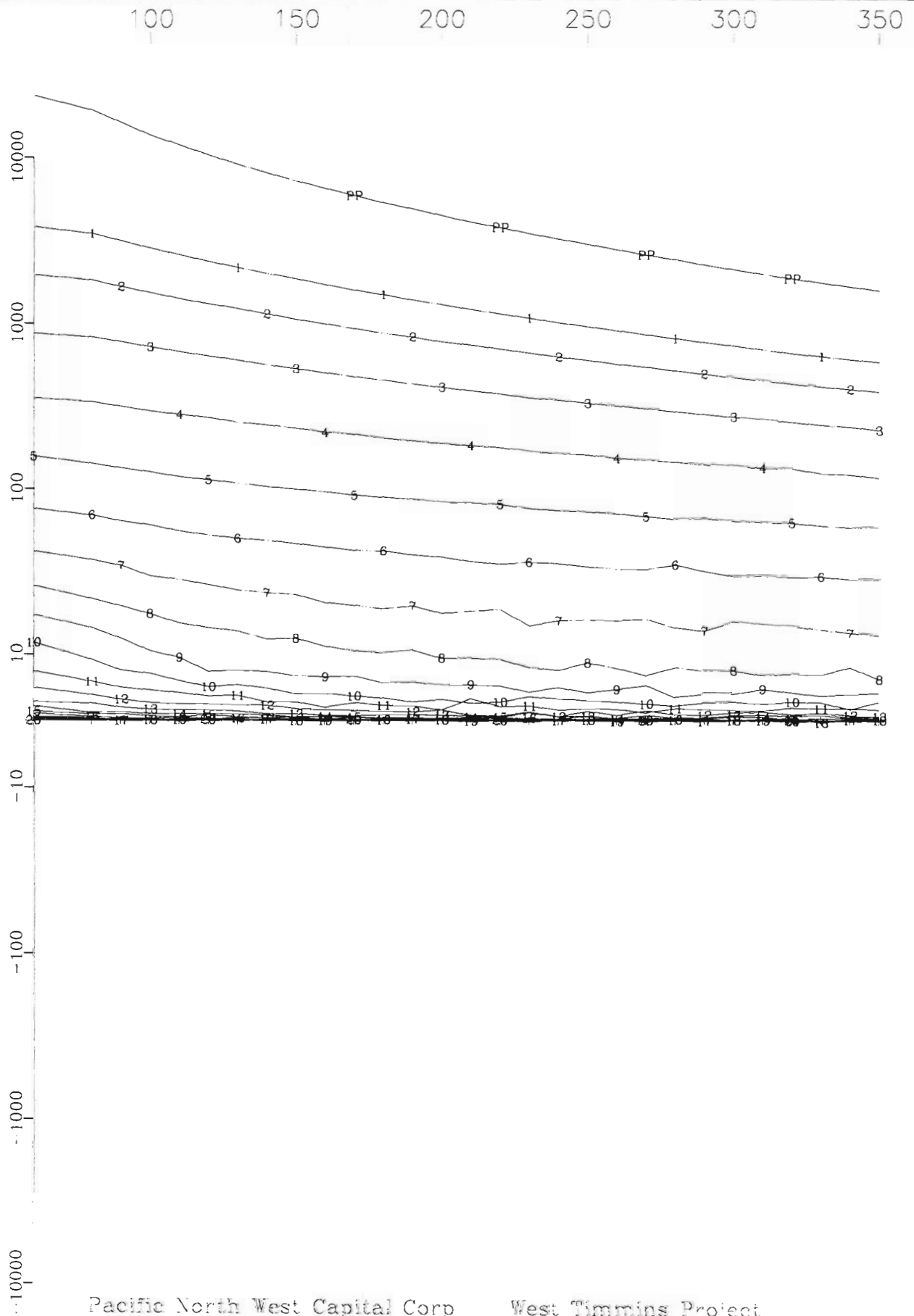


Primary Pulse and 20 Off-time Channels  
(nT/sec)



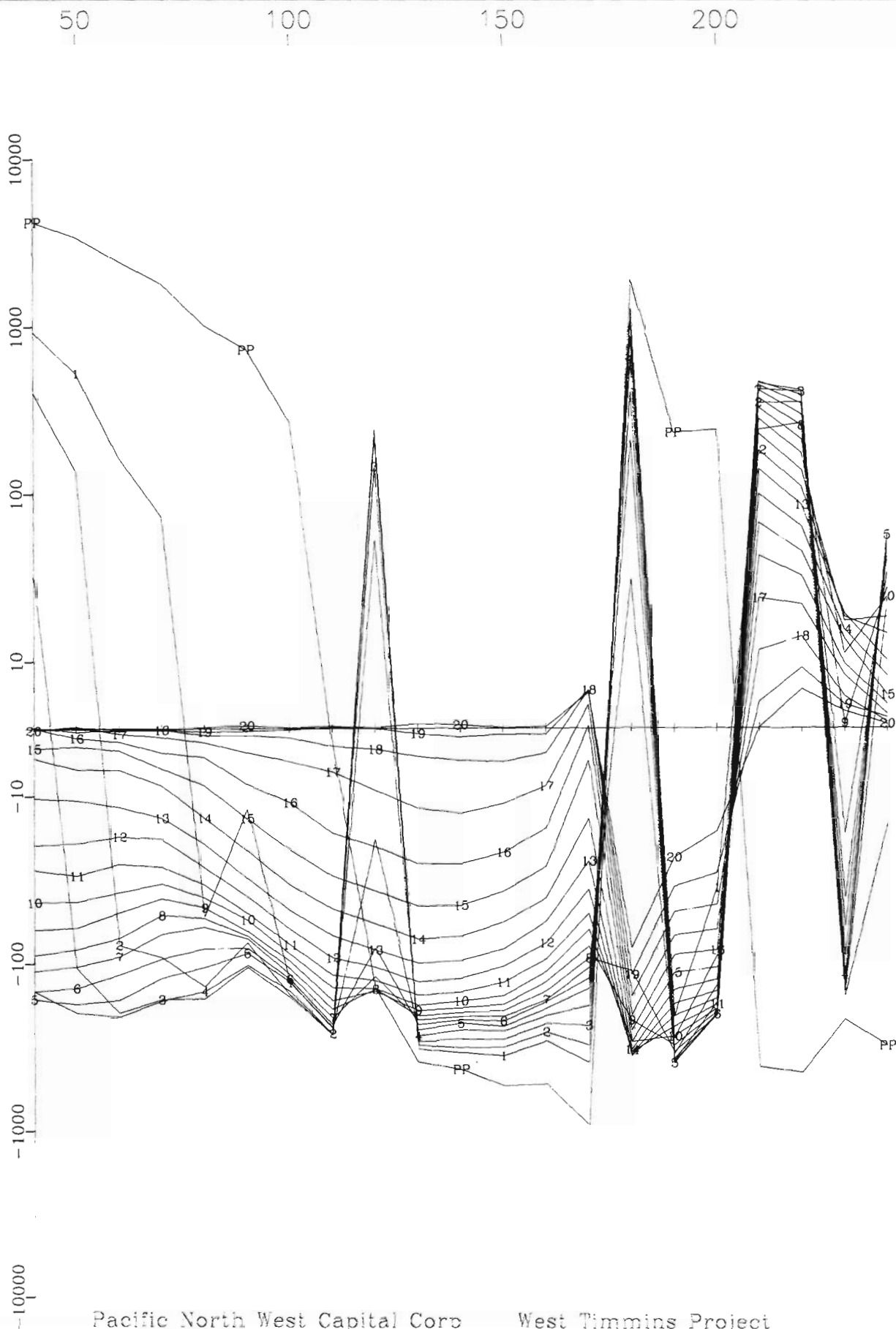
Pacific North West Capital Corp      West Timmins Project  
Loop WTM18, Hole WTM07-18      Y Component  
Crone Geophysics & Exploration Ltd.

Primary Pulse and 20 Off-time Channels  
(nT/sec)



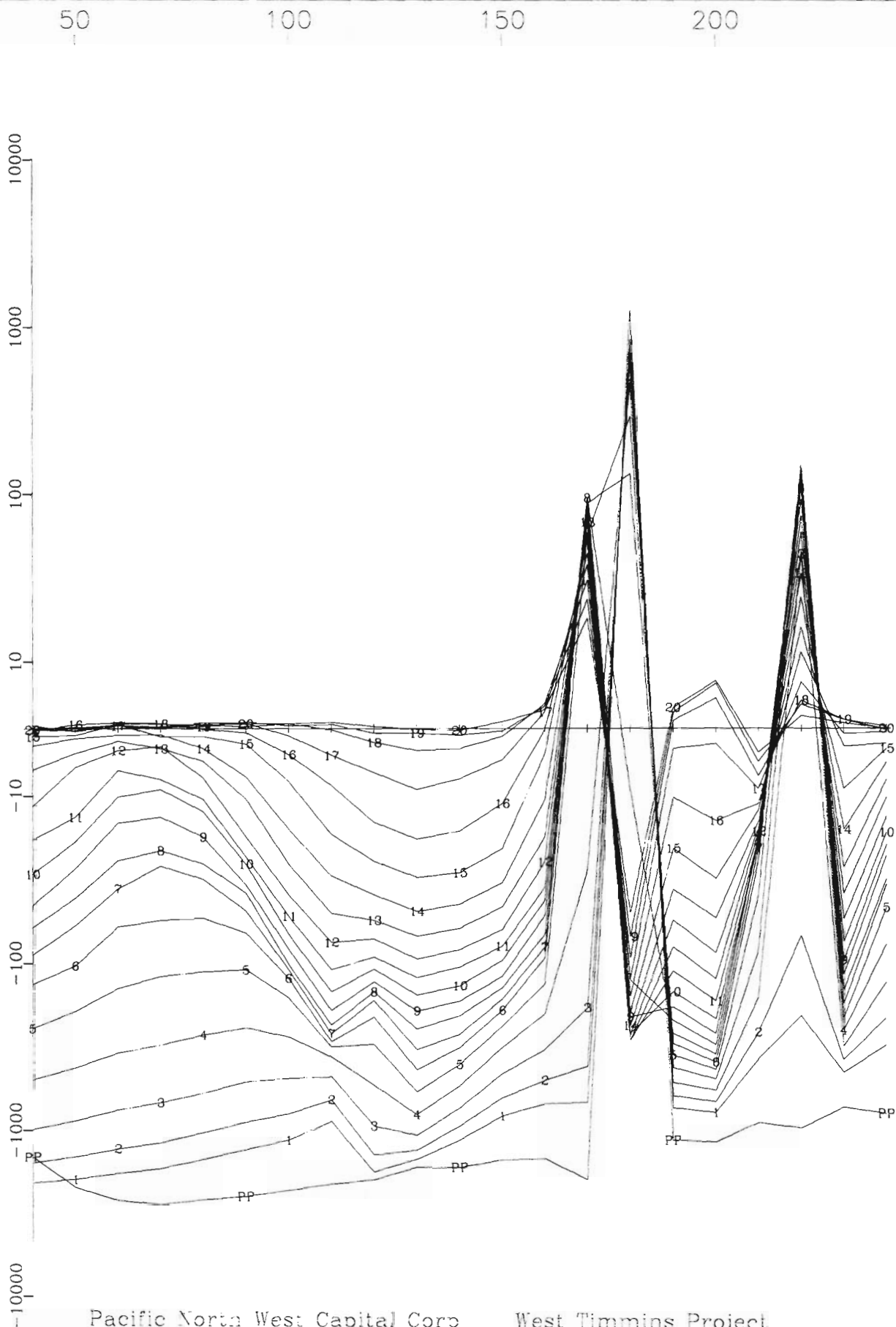
Pacific North West Capital Corp      West Timmins Project  
Loop WTM18, Hole WTM07-18      Z Component  
Crone Geophysics & Exploration Ltd.

Primary Pulse and 20 Off-time Channels  
(nT/sec)



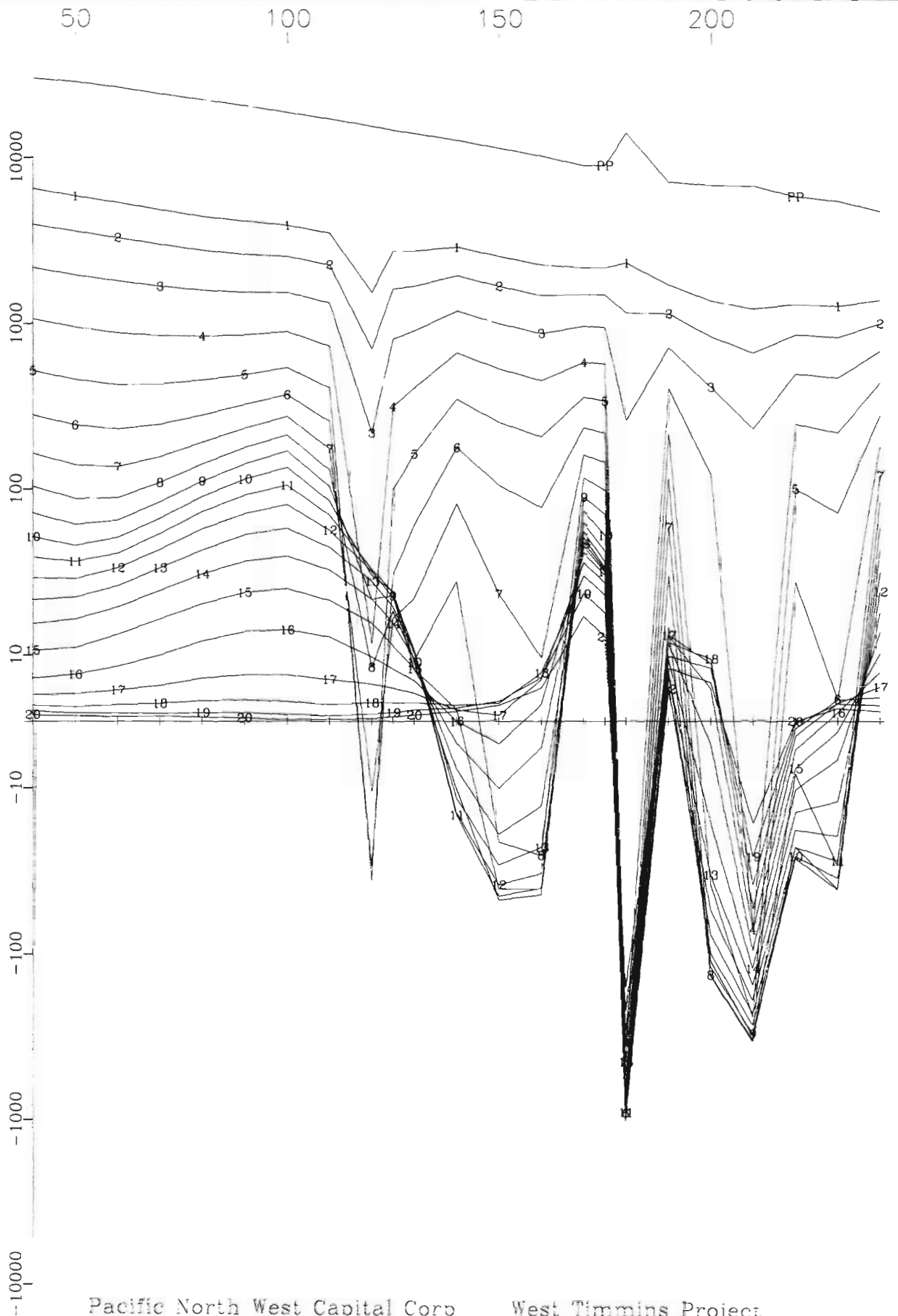
Pacific North West Capital Corp West Timmins Project  
Loop WTM20, Hole WTM07-20 X Component  
Crone Geophysics & Exploration Ltd.

Primary Pulse and 20 Off-time Channels  
(nT/sec)



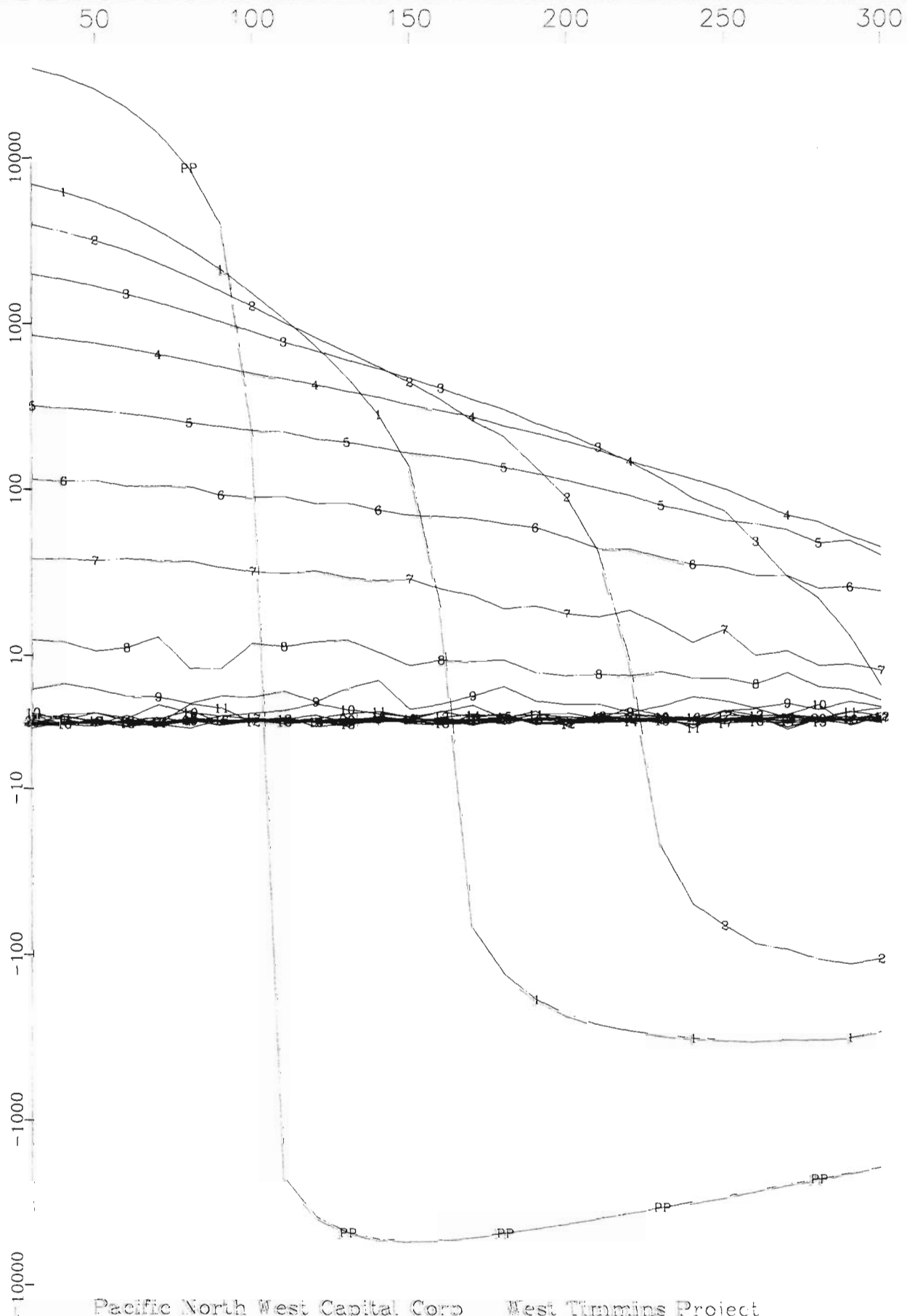
Pacific North West Capital Corp      West Timmins Project  
Loop WTM20, Hole WTM07-20      Y Component  
Crone Geophysics & Exploration Ltd.

Primary Pulse and 20 Off-time Channels  
(nT/sec)



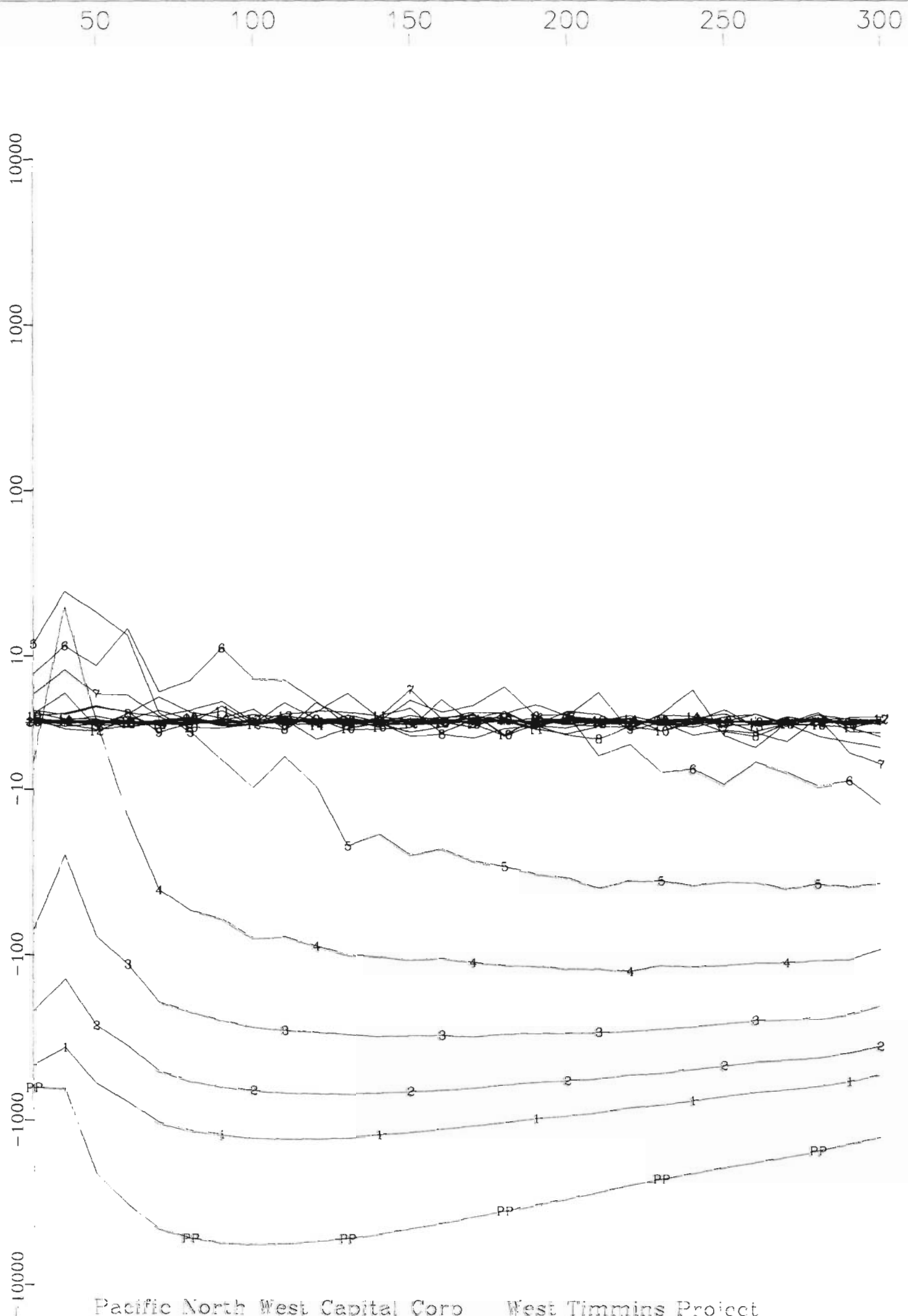
Pacific North West Capital Corp      West Timmins Project  
Loop WTM20, Hole WTM07-20      Z Component  
Crone Geophysics & Exploration Ltd.

Primary Pulse and 20 Off-time Channels  
(nT/sec)



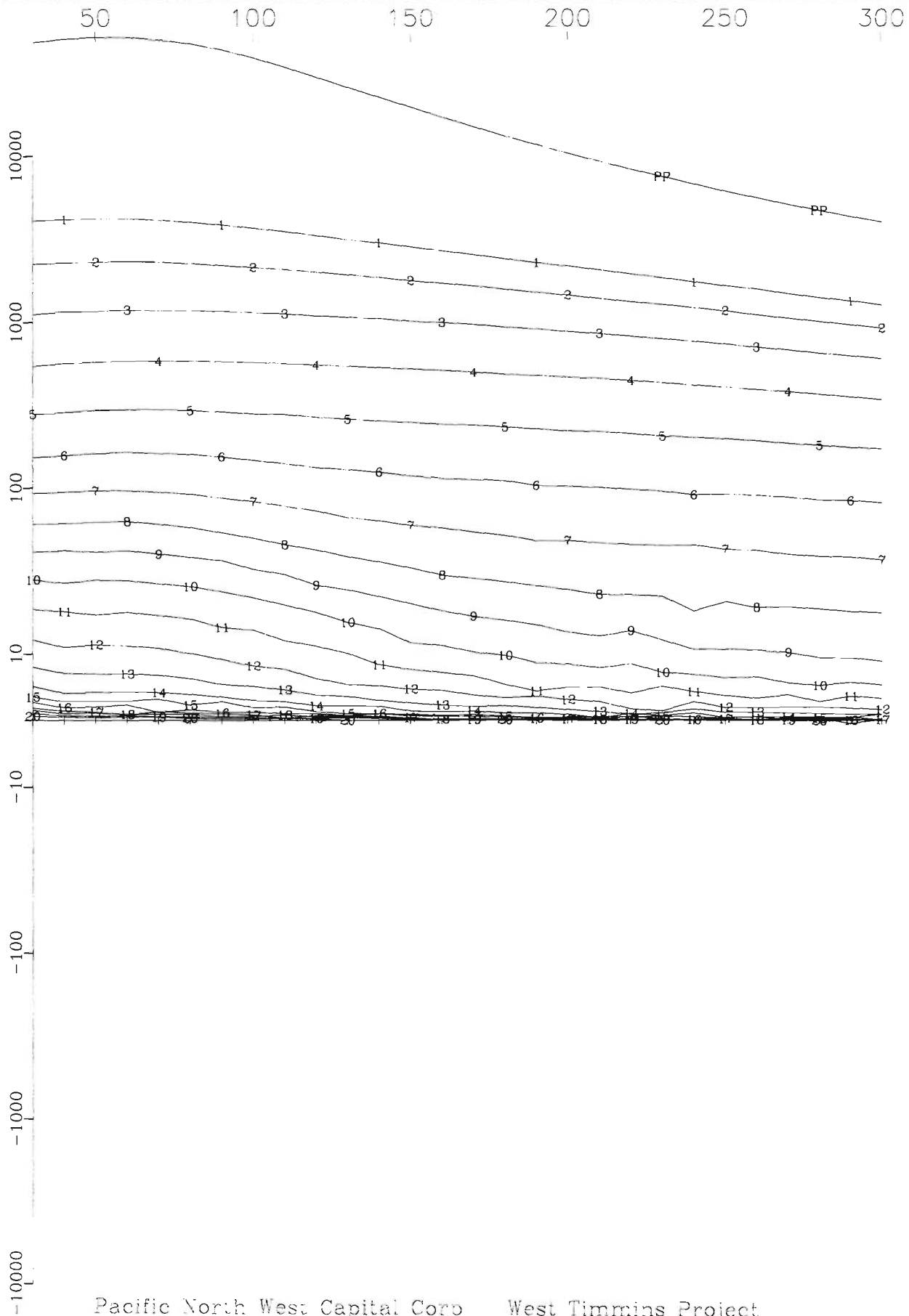
Pacific North West Capital Corp West Timmins Project  
Loop WTM21, Hole WTM07-21 X Component  
Crone Geophysics & Exploration Ltd.

Primary Pulse and 20 Off-time Channels  
(n"/sec)



Pacific North West Capital Corp West Timmins Project  
Loop WTM21, Hole WTM07-21 Y Component  
Crone Geophysics & Exploration Ltd.

Primary Pulse and 20 Off-time Channels  
(n"/sec)



Pacific North West Capital Corp West Timmins Project  
Loop WTM21 Hole WTM07-21 Z Component  
Crone Geophysics & Exploration Ltd.



**Appendix D:**  
Transmitter Loop Coordinates

**All Coordinates in NAD83 ZONE17N**

Transmitter Loop: WTM09

EAST	NORTH	RL
414740.4	5385064.0	286.3
414729.8	5385052.5	286.7
414728.0	5385045.0	285.9
414762.6	5385008.5	285.1
414779.0	5384993.0	282.5
414789.2	5384977.5	284.8
414803.0	5384964.0	289.1
414816.6	5384952.0	287.2
414844.1	5384923.5	287.4
414867.0	5384900.0	287.7
414883.9	5384880.5	287.0
414917.0	5384847.5	285.7
414929.8	5384835.5	286.6
414947.8	5384841.0	286.5
414973.8	5384861.0	286.9
414997.7	5384883.5	288.0
415004.6	5384891.5	287.2
415004.6	5384924.0	287.3
415016.9	5384955.5	288.1
415030.4	5384979.0	288.3
415051.3	5384995.5	287.8
415084.6	5385007.0	288.7
415115.5	5385018.0	287.9
415141.5	5385027.0	288.8
415145.3	5385032.5	288.4
415146.8	5385038.5	288.5
415127.5	5385060.5	288.8
415120.5	5385062.0	289.1
415098.9	5385084.5	288.8
415080.9	5385099.0	289.1
415052.9	5385135.5	288.5
415032.9	5385156.5	287.0
415017.8	5385172.5	286.0
414995.7	5385194.5	288.0
414976.8	5385214.5	288.1
414960.6	5385233.0	287.5
414946.4	5385232.0	287.4
414930.0	5385230.5	288.2
414907.0	5385213.0	288.6
414879.1	5385188.0	288.4
414851.2	5385160.5	288.2
414823.9	5385131.0	288.2
414821.0	5385126.0	281.7
414806.1	5385116.0	291.2
414802.4	5385110.0	285.0
414778.8	5385090.0	294.9
414758.6	5385076.0	287.0

Transmitter Loop: WTM11

EAST	NORTH	RL
415425.9	5386051.5	290.1
415410.5	5386027.5	290.4
415390.3	5386001.0	291.3
415369.6	5385980.0	292.0
415353.9	5385956.0	291.6
415331.3	5385928.5	291.4
415309.8	5385896.0	290.2
415308.0	5385887.5	292.5
415319.2	5385875.5	293.5
415340.4	5385851.5	289.9
415369.2	5385820.5	291.0
415413.3	5385771.0	289.4
415441.6	5385740.0	288.8
415468.5	5385709.0	289.9
415491.8	5385682.0	291.3
415501.7	5385675.5	290.4
415527.2	5385698.5	291.4
415540.8	5385712.5	291.8
415569.8	5385743.0	290.5
415597.6	5385769.0	290.8
415618.5	5385791.5	290.9
415641.7	5385810.5	291.1
415674.4	5385841.5	290.6
415694.6	5385858.0	292.2
415720.9	5385878.0	291.3
415722.6	5385882.0	291.3
415693.5	5385914.5	290.8
415662.3	5385946.5	293.0
415639.5	5385971.5	290.9
415611.4	5385999.0	291.4
415582.9	5386031.5	290.8
415556.8	5386057.5	289.8
415530.6	5386087.5	290.8
415508.7	5386110.5	291.5
415489.5	5386132.0	292.2
415476.0	5386142.5	292.5
415463.2	5386119.5	293.9
415450.1	5386091.0	291.0
415438.3	5386072.0	291.7
415431.0	5386060.0	293.1

## Transmitter Loop: WTM15

EAST	NORTH	RL
418737.1	5389765.5	300.0
418713.2	5389788.5	303.5
418681.3	5389818.0	302.9
418670.5	5389808.0	304.2
418649.8	5389786.5	301.1
418621.2	5389760.5	301.7
418611.4	5389749.0	301.5
418598.1	5389730.5	300.1
418580.0	5389706.0	301.2
418549.1	5389674.5	300.9
418486.8	5389610.0	299.4
418481.5	5389606.0	298.8
418456.9	5389568.0	299.1
418468.5	5389554.0	299.2
418482.0	5389536.0	299.5
418502.2	5389516.5	299.6
418523.9	5389492.0	299.2
418552.9	5389458.0	302.9
418585.8	5389413.5	301.5
418625.6	5389375.5	303.5
418648.2	5389356.5	303.1
418676.7	5389344.5	303.6
418706.6	5389327.5	304.4
418731.4	5389309.0	305.2
418747.4	5389314.0	305.1
418788.6	5389332.5	306.0
418814.2	5389356.0	305.9
418843.2	5389382.0	307.4
418857.7	5389403.5	309.6
418878.5	5389432.5	308.0
418896.7	5389459.5	308.8
418944.5	5389515.5	308.9
418964.9	5389539.0	308.3
418972.2	5389550.5	309.8
418962.8	5389558.0	308.9
418939.8	5389582.0	309.1
418901.4	5389619.5	308.4
418882.9	5389636.5	307.9
418830.8	5389688.0	306.7
418792.4	5389726.0	308.3
418758.4	5389758.0	306.7

## Transmitter Loop: WTM16

EAST	NORTH	RL
418737.1	5389765.5	300.0
418713.2	5389788.5	303.5
418681.3	5389818.0	302.9
418670.5	5389808.0	304.2
418649.8	5389786.5	301.1
418621.2	5389760.5	301.7
418611.4	5389749.0	301.5
418598.1	5389730.5	300.1
418580.0	5389706.0	301.2
418549.1	5389674.5	300.9
418486.8	5389610.0	299.4
418481.5	5389606.0	298.8
418445.9	5389573.5	298.0
418407.2	5389531.5	297.8
418371.0	5389498.0	297.4
418343.9	5389465.0	295.9
418376.8	5389431.5	298.3
418410.7	5389400.5	295.5
418454.2	5389354.5	300.0
418495.0	5389317.0	297.4
418536.6	5389276.0	299.4
418577.2	5389237.0	301.1
418627.8	5389194.0	300.5
418665.0	5389233.0	303.8
418694.6	5389267.5	303.8
418714.3	5389292.0	305.3
418730.9	5389310.0	303.6
418814.2	5389356.0	305.9
418843.2	5389382.0	307.4
418857.7	5389403.5	309.6
418878.5	5389432.5	308.0
418896.7	5389459.5	308.8
418944.5	5389515.5	308.9
418964.9	5389539.0	308.3
418972.2	5389550.5	309.8
418962.8	5389558.0	308.9
418939.8	5389582.0	309.1
418901.4	5389619.5	308.4
418882.9	5389636.5	307.9
418830.8	5389688.0	306.7
418792.4	5389726.0	308.3
418758.4	5389758.0	306.7

## Transmitter Loop: WTM17

EAST	NORTH	RL
418548.2	5388565.5	301.3
418537.2	5388576.5	300.9
418535.5	5388579.5	299.5
418504.8	5388547.5	298.5
418476.1	5388516.5	299.4
418428.7	5388466.5	299.4
418403.4	5388434.0	298.6
418389.9	5388423.0	299.3
418356.6	5388393.5	300.4
418331.8	5388366.5	301.8
418330.2	5388361.5	304.4
418340.5	5388352.5	300.8
418376.3	5388318.5	300.3
418410.2	5388285.5	302.4
418447.2	5388251.0	300.9
418478.3	5388220.5	301.1
418510.2	5388192.0	301.7
418538.1	5388164.5	302.7
418546.0	5388158.0	303.0
418558.0	5388171.5	302.5
418581.9	5388193.0	302.8
418608.0	5388220.5	306.1
418627.2	5388241.0	300.6
418653.0	5388265.0	301.2
418667.6	5388286.5	301.2
418699.8	5388318.5	301.6
418721.8	5388351.5	301.5
418738.3	5388372.5	302.1
418733.7	5388387.0	302.0
418700.3	5388420.5	302.7
418661.8	5388456.5	300.6
418628.0	5388489.5	299.0
418597.0	5388519.0	299.5
418565.9	5388549.0	300.0

**Transmitter Loop: WTM18**

<b>EAST</b>	<b>NORTH</b>	<b>RL</b>
419795.2	5388289.0	303.2
419827.7	5388324.0	303.3
419802.3	5388347.5	303.2
419772.0	5388377.5	303.6
419737.7	5388408.5	306.3
419707.8	5388437.5	303.9
419678.2	5388465.5	305.4
419655.5	5388490.5	304.6
419631.4	5388512.5	305.5
419604.0	5388534.5	306.4
419570.5	5388513.5	303.3
419541.2	5388479.5	309.1
419513.5	5388451.5	304.5
419486.8	5388412.0	307.3
419467.0	5388375.0	304.9
419439.6	5388344.0	302.5
419413.9	5388303.0	306.4
419403.1	5388291.5	304.4
419431.7	5388262.5	305.6
419462.9	5388231.5	306.0
419508.2	5388188.5	305.1
419539.2	5388159.5	302.5
419548.0	5388150.0	303.0
419571.1	5388124.0	305.3
419593.3	5388105.5	304.4
419612.9	5388096.0	309.9
419643.2	5388127.5	307.5
419672.7	5388158.0	306.8
419704.6	5388190.5	304.3
419735.3	5388225.0	304.7
419747.3	5388234.0	305.3

## Transmitter Loop: WTM20

EAST	NORTH	RL
415038.2	5385507.0	287.6
415029.8	5385476.5	288.3
415025.3	5385440.0	286.9
415020.2	5385418.0	284.9
415016.2	5385409.0	287.1
415017.7	5385400.5	284.5
415013.2	5385395.0	289.2
415004.2	5385366.5	289.1
415004.7	5385363.0	291.3
415023.7	5385359.0	292.8
415046.7	5385357.0	288.8
415077.9	5385349.0	287.0
415110.3	5385343.0	290.7
415140.0	5385335.5	289.3
415178.7	5385325.5	288.1
415210.8	5385319.0	286.6
415236.9	5385314.5	286.4
415268.4	5385296.5	286.9
415290.3	5385284.5	289.2
415312.3	5385279.5	288.1
415320.9	5385281.0	288.5
415321.2	5385312.0	288.1
415323.5	5385342.0	288.3
415326.5	5385379.0	289.5
415339.5	5385421.0	289.7
415333.5	5385456.0	288.6
415336.4	5385486.5	288.9
415343.2	5385526.0	288.2
415341.2	5385542.5	288.5
415335.2	5385547.5	288.1
415300.8	5385552.0	286.9
415271.8	5385561.5	288.5
415243.9	5385568.5	288.8
415214.8	5385572.0	287.6
415181.3	5385580.0	287.6
415153.7	5385584.5	290.2
415124.4	5385587.0	287.6
415085.9	5385596.0	288.8
415063.5	5385602.0	289.1
415050.5	5385591.5	287.2
415052.0	5385572.5	288.2
415051.0	5385563.0	288.7
415043.0	5385531.0	287.7



## Transmitter Loop: WTM21

EAST	NORTH	RL
416354.5	5387308.5	292.4
416333.6	5387285.0	291.0
416318.2	5387269.5	291.2
416308.0	5387255.5	290.4
416300.5	5387244.5	291.5
416297.7	5387238.5	291.9
416313.1	5387228.0	291.6
416339.1	5387205.0	291.1
416373.2	5387175.0	291.3
416407.9	5387139.5	291.9
416429.9	5387122.0	291.3
416447.8	5387104.5	291.3
416460.1	5387075.0	289.7
416473.3	5387034.5	291.1
416482.3	5387023.0	291.7
416498.4	5387020.5	292.1
416538.7	5387025.0	292.1
416569.1	5387031.0	294.0
416589.2	5387031.0	291.3
416609.1	5387046.0	293.2
416625.0	5387074.0	292.6
416642.7	5387106.0	292.3
416659.8	5387124.5	293.6
416667.5	5387133.5	293.3
416692.6	5387155.5	292.6
416721.7	5387185.0	292.6
416750.0	5387212.0	293.0
416759.0	5387223.0	292.8
416759.9	5387226.0	293.4
416742.2	5387242.0	292.6
416720.9	5387262.0	291.0
416697.1	5387286.0	293.9
416674.3	5387308.5	291.7
416640.8	5387338.5	293.4
416621.0	5387358.5	291.8
416596.3	5387383.0	295.9
416578.8	5387400.0	292.2
416550.5	5387425.0	291.5
416528.9	5387443.0	293.2
416513.6	5387449.0	291.2
416500.2	5387451.5	291.3
416482.6	5387450.0	291.8
416467.0	5387439.5	292.1
416438.7	5387400.0	291.3
416415.0	5387369.5	291.4
416388.4	5387341.5	291.1
416375.1	5387328.0	291.2