



Zonge Engineering and Research Organization (Australia) Pty Ltd

**Scottsdale
NanoTEM Survey
Logistics Summary**

January 2008

for

Arcadia Resources Limited

Compiled by:

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Report No: 780

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1. SUMMARY

During January 2008 Zonge Engineering and Research Organization (Zonge) mobilised a two-person geophysical field crew to the Scottsdale prospect near Launceston Tasmania to conduct a NanoTEM survey for Arcadia Resources Ltd. The survey was originally planned to include both resistivity/Induced Polarisation (IP) as well as NanoTEM surveying. The logistics of these surveys were discussed between the Zonge crew and Arcadia representatives on-site and it was determined that resistivity/IP surveying would be impractical in the given conditions. The Zonge crew were subsequently instructed by Arcadia to conduct only the NanoTEM portion of the survey.

The survey commenced on the 14th January 2008 and was completed on the 25th January 2008. In this time NanoTEM data were collected along 6 lines at a 20 metre station spacing producing 226 individual soundings over 3.72 line kilometres.

Data quality and repeatability were monitored throughout the course of the survey. Strict acquisition procedures were adhered to, which ensured that good quality data were collected. Despite this, several sections of data were unusable due to high cultural noise levels.

2. NANOTEM INSTRUMENTATION

A Zonge multipurpose GDP-32II receiver was used to take all of the NanoTEM data for this project. The raw data from each day was downloaded every evening from the receiver to laptop computer and emailed to Zonge's Adelaide office. Preliminary processing and plotting were completed in the field. Final processing and plotting were completed in Zonge Engineering's Adelaide office.

Transmitted fields were generated with a Zonge battery powered NT-20 geophysical transmitter. Signal frequency and synchronisation were controlled directly the GDP-32 receiver.

3. NANOTEM SURVEY PARAMETERS

All data recorded during this survey was taken with a Zonge GDP-32II receiver equipped with a NanoTEM time domain EM acquisition card. Data were recorded at a frequency of 32 Hertz. Decay data is sampled at a rate of 1.6 microseconds and averaged over 31 logarithmically spaced windows. A minimum of three separate stacks of data were recorded for each station. The number of cycles within each stack varied and was determined based on noise levels and data repeatability.

Station spacing was 20m on all six lines. Data were recorded using an in-loop configuration using a 20x20 metre single turn transmitter loop with a 5x5 metre receiver loop placed at the centre of each transmitting loop.

The location of the centre of each transmitter loop was recorded using handheld GPS in the AGD66 Zone 55 datum. In many instances GPS reception was poor and the accuracy of recorded points was reduced. Station locations as recorded using GPS are presented in figures 1 to 3. Station numbers reflect distance along line with '0' reflecting the start of the line, the actual position of each station (AGD66) is recorded within .stn text files within the '*Processed Data*' directory on the accompanying disc.

Table 1 Summary of Scottsdale NanoTEM Data

Line	Frequency (Hz)	Station Spacing (m)	Start	Finish	Soundings
04	32	20	0	480	32
05	32	20	0	780	49
07a	32	20	0	760	48
09	32	20	0	320	17
10a	32	20	0	640	33
10b	32	20	0	740	47
Total soundings					226
Total line kilometres					3.72

4. PRODUCTION ISSUES

Delays were encountered due to persistent rain, and a GDP receiver failure. A replacement receiver unit was sent to the crew from Adelaide the next day. Some difficulty was experienced recording consistently accurate GPS data in some locations.

No other significant delays to production occurred during the survey. More detailed information on daily production may be found on the accompanying disc under "*Production Reports*".

5. PRODUCTION SUMMARY

Table 2 gives a summary of the production of Job 780. More detailed information on daily production may be found on the accompanying disc under "*Production Reports*".

Table 2 Scottsdale NanoTEM Production Summary

Date	Description
14-15/1/08	Travel from Adelaide to Scottsdale via Melbourne and Devonport
16/1/08	Prepare Line 10a and read data, start preparation on Line 10b
17/1/08	Read data on Line 10b and start preparation on Line 9.
18/1/08	Read data on Line 9 and start preparation on Line 4.
19/1/08	Read data on Line 4. Persistent rain all day hampered progress.
20/1/08	Experienced a GDP receiver failure. Ordered a replacement unit from Adelaide.
21/1/08	Travel to Launceston to pick up replacement receiver.
22-23/1/08	Prepare Lines and read data on Lines 5 and 7a.
24-25/1/08	Travel to Adelaide via Devonport and Melbourne.

6. DATA PROCESSING

The quality of each block of NanoTEM data was examined before being averaged to create a single record for each station. Blocks or time windows that were considered of poor quality were skipped before averaging each station's data. All raw data taken during this survey are included on the accompanying disc so that this data may be re-averaged if necessary.

The averaged decay data for each NanoTEM line were then used to produce pseudo-section plots for each line and are presented in Appendix I.

The edited and averaged NanoTEM data were used to produce 1D inversion smooth models using Zonge's STEMINV modelling program. Plots of 1D models are presented in Appendices II.

7. EXPLANATION OF FILES

Digital data is provided on CD along with paper plots of the data. Data from each CSAMT line are placed in the following directory structure on the accompanying CD: `Processed_Data\line#`. File formats are explained below:

*.AVG	files created by Zonge's TEMAVG containing averaged data
*.FLD	Zonge field file format produced from SHRED.EXE from *.RAW files
*.MDE	input files containing processing information
*.PDF	Adobe Acrobat Portable Document File containing plot files and report
*.RAW	raw data downloaded from the GDP-32
*.X01	contain plot files of decay window magnitude
*.M1D	STEMINV model file in columnar format
*.OBS	STEMINV observed and calculated data output file
*.PNG	Plots of inversion models
*.STD	STEMINV inversion control and observed data input file
*.STN	Station coordinates text file
*.TEM	Amira format channel information text file
*.Z	files used for plotting containing averaged TEM data

All plot files are provided in HPGL and PDF formats.

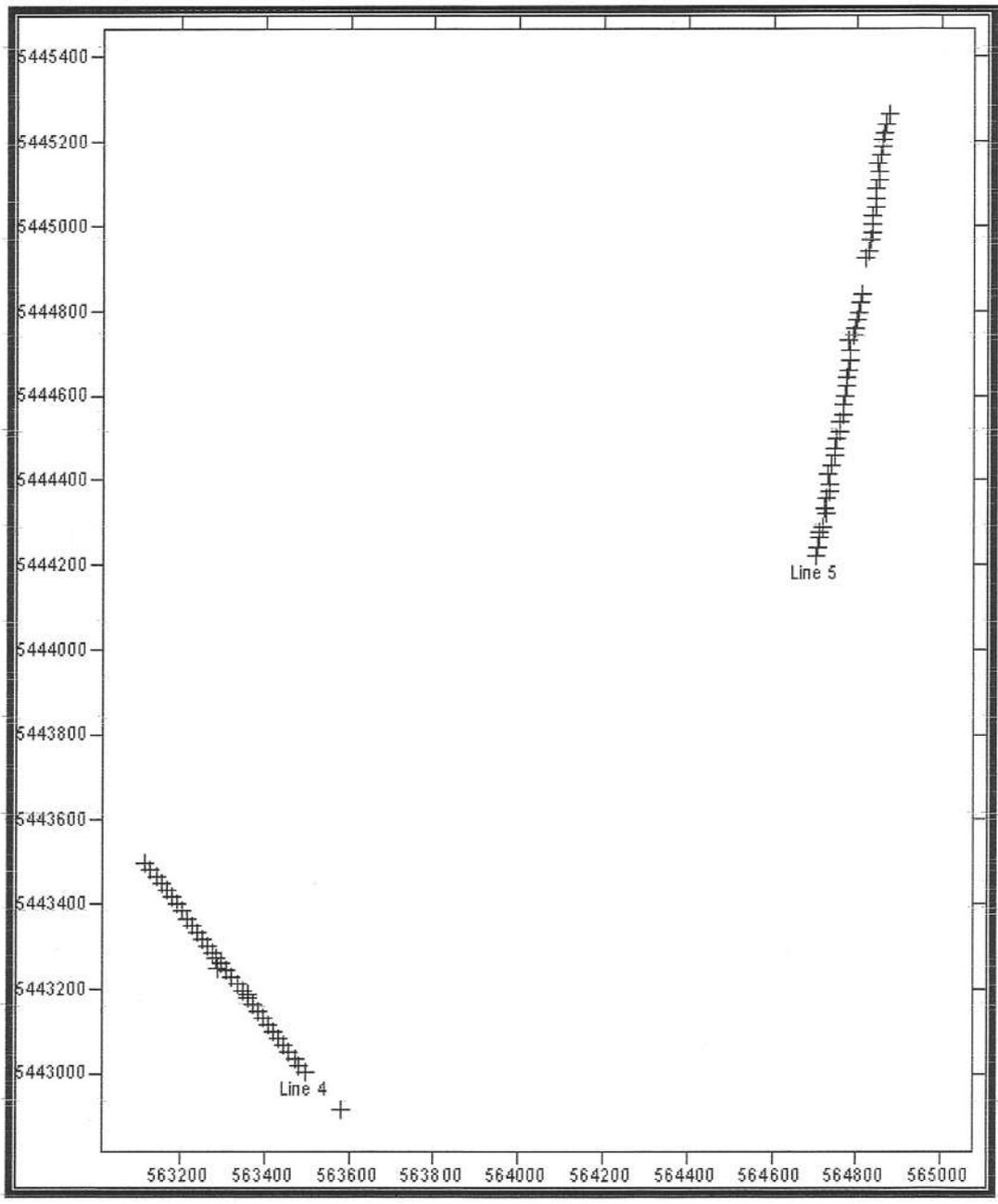


Figure 1 Scottsdale Lines 4 and 5 stations

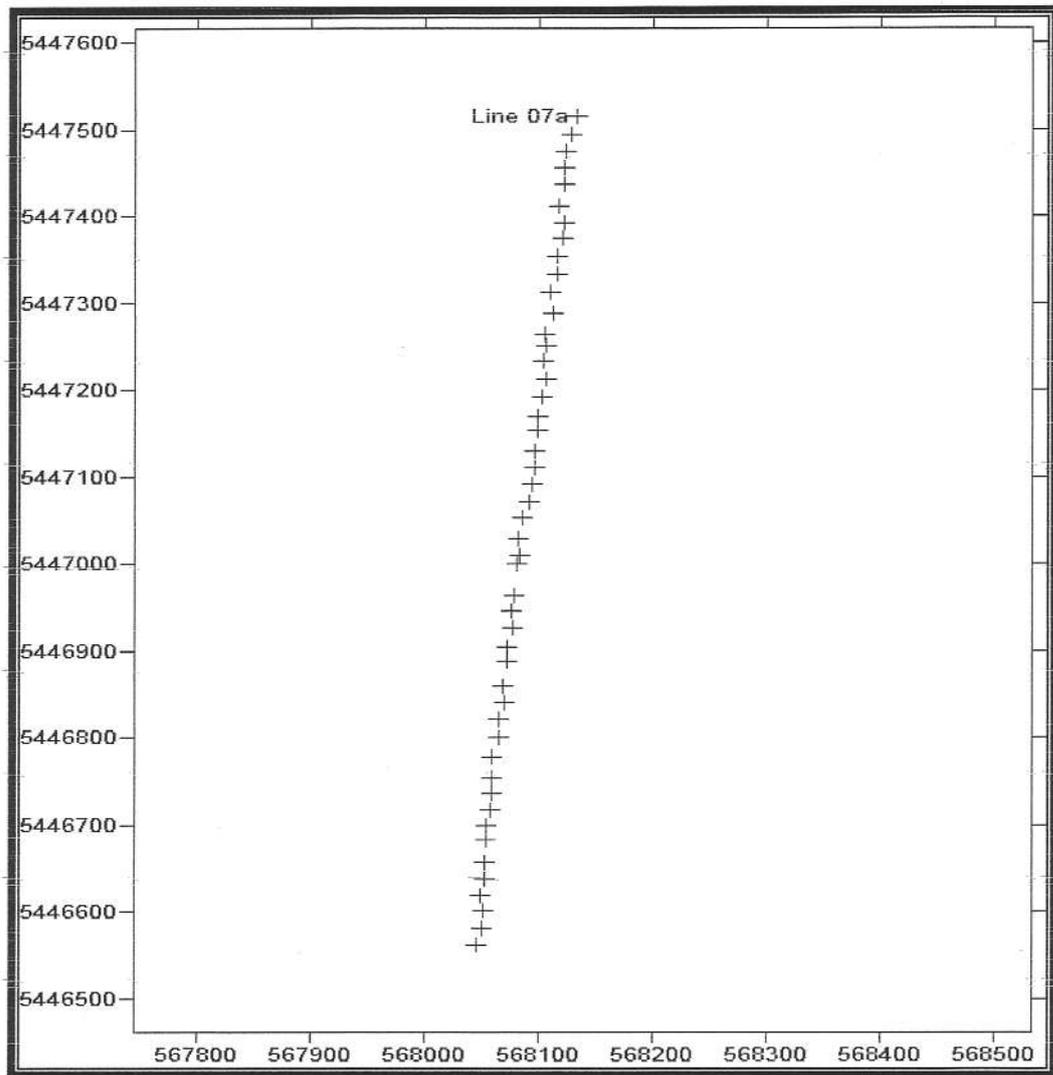


Figure 2 Scottsdale Line 7a stations

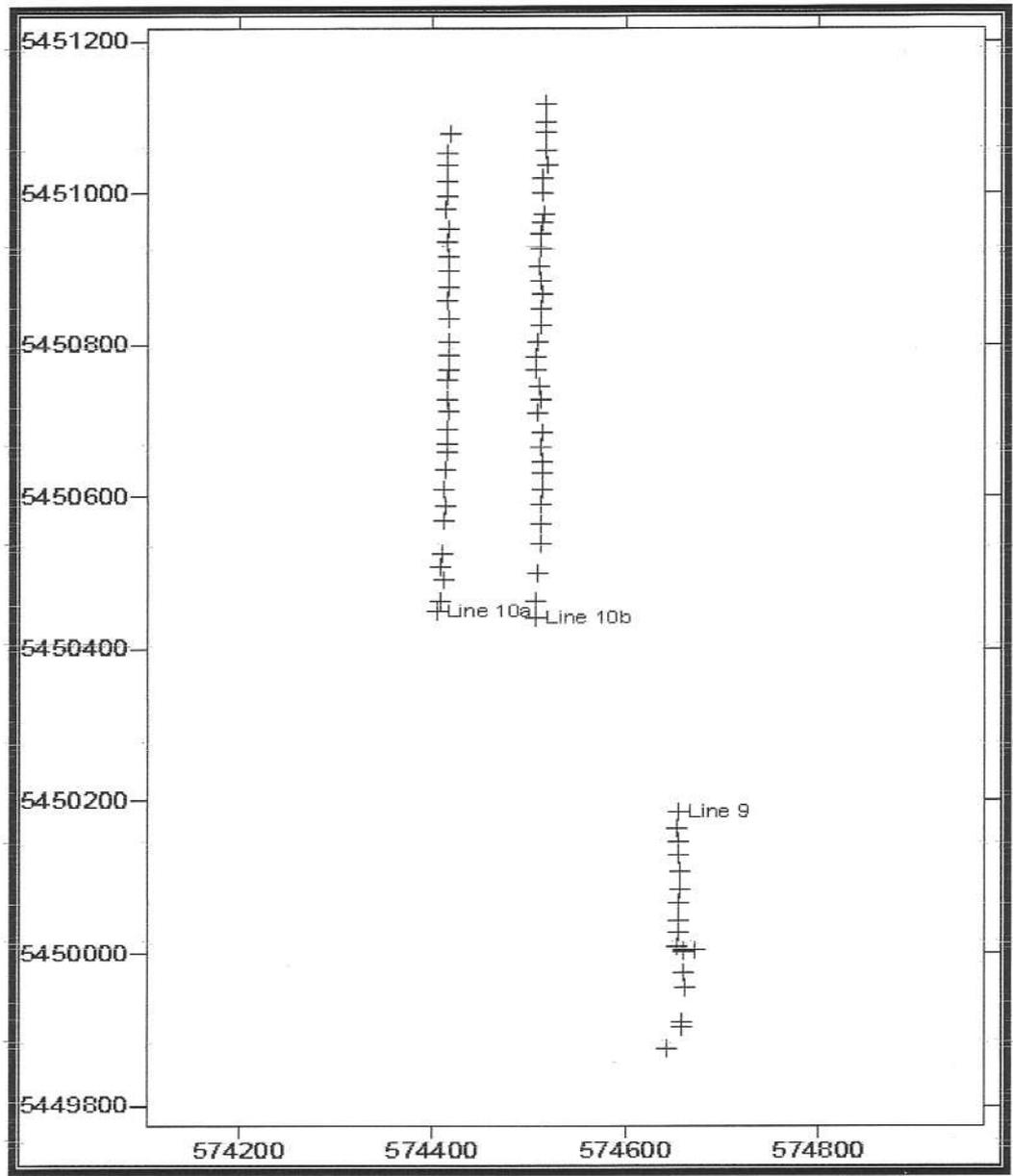


Figure 3 Scottsdale Lines 9, 10a and 10b stations

APPENDIX I

Pseudo-section plots of Scottsdale NanoTEM Data

Line 04
 Scottsdale
 for
 Arcadia Resources

Field Job 780
 ZONE ZPL01.7.35
 File 04.Z, Plotted 21 Jan 09



TEM SURVEY DATA
 dBz/dt uV/cmp

Tx - 1760

SURVEY LINE DATA
 Line Orient - North
 Survey Date - Jan 2008

Window NUMBER and TIME (seconds)

- 1 1.920u+ 32.28u-
- 2 3.30u+ 41.07u-
- 3 5.460u+
- 4 7.740u+
- 5 9.90u+
- 6 12.18u+
- 7 14.34u+
- 8 16.50u+
- 9 18.66u+
- 10 20.82u+
- 11 22.98u+
- 12 25.14u+
- 13 27.30u+
- 14 29.46u+
- 15 31.62u+
- 16 33.78u+
- 17 35.94u+
- 18 38.10u+
- 19 40.26u+
- 20 42.42u+
- 21 44.58u+
- 22 46.74u+
- 23 48.90u+
- 24 51.06u+
- 25 53.22u+
- 26 55.38u+
- 27 57.54u+
- 28 59.70u+
- 29 61.86u+
- 30 64.02u+
- 31 66.18u+
- 32 68.34u+
- 33 70.50u+
- 34 72.66u+
- 35 74.82u+
- 36 76.98u+
- 37 79.14u+
- 38 81.30u+
- 39 83.46u+
- 40 85.62u+
- 41 87.78u+
- 42 89.94u+
- 43 92.10u+
- 44 94.26u+
- 45 96.42u+
- 46 98.58u+
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- 563 1215.30u+
- 564 1217.46u+
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- 568 1226.10u+
- 569 1228.26u+
- 570 1230.42u+
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- 622 1342.74u+
- 623 1344.90u+
- 624 1347.06u+
- 625 1349.22u+
- 626 1351.38u+
- 627 1353.54u+
- 628 1355.70u+
- 629 1357.86u+
- 630 1360.02u+
- 631 1362.18u+
- 632 1364.34u+
- 633 1366.50u+
- 634 1368.66u+
- 635 1370.82u+
- 636 1372.98u+
- 637 1375.14u+
- 638 1377.30u+
- 639 1379.46u+
- 640 1381.62u+
- 641 1383.78u+
- 642 1385.94u+
- 643 1388.10u+
- 644 1390.26u+
- 645 1392.42u+
- 646 1394.58u+
- 647 1396.74u+
- 648 1398.90u+
- 649 1401.06u+
- 650 1403.22u+
- 651 1405.38u+
- 652 1407.54u+
- 653 1409.70u+
- 654 1411.86u+
- 655 1414.02u+
- 656 1416.18u+
- 657 1418.34u+
- 658 1420.50u+
- 659 1422.66u+
- 660 1424.82u+
- 661 1426.98u+
- 662 1429.14u+
- 663 1431.30u+
- 664 1433.46u+
- 665 1435.62u+
- 666 1437.78u+
- 667 1439.94u+
- 668 1442.10u+
- 669 1444.26u+
- 670 1446.42u+
- 671 1448.58u+
- 672 1450.74u+
- 673 1452.90u+
- 674 1455.06u+
- 675 1457.22u+
- 676 1459.38u+
- 677 1461.54u+
- 678 1463.70u+
- 679 1465.86u+
- 680 1468.02u+
- 681 1470.18u+
- 682 1472.34u+
- 683 1474.50u+
- 684 1476.66u+
- 685 1478.82u+
- 686 1480.98u+
- 687 1483.14u+
- 688 1485.30u+
- 689 1487.46u+
- 690 1489.62u+
- 691 1491.78u+
- 692 1493.94u+
- 693 1496.10u+
- 694 1498.26u+
- 695 1500.42u+
- 696 1502.58u+
- 697 1504.74u+
- 698 1

Line 05
Seo / Isable
Arcadia Resources

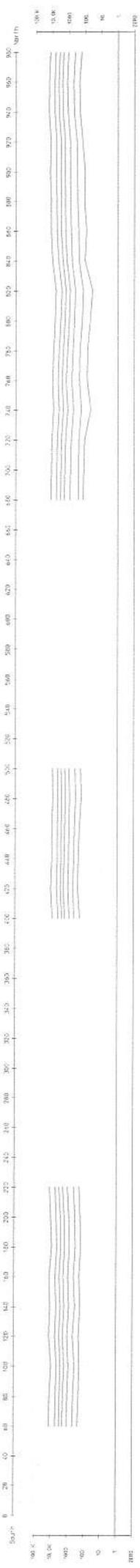
File # 10.00
2004 2007 05
ARCADIA RESOURCES



TECH SURVEY DATA

Tr. 3330
SWEETLAND RIVER
LINE 05 AND 16/17
Survey Date: 04/20/04

Vertical Meters and Feet
1.170m
3.838ft
1.230m
4.035ft
1.170m
3.838ft



Line 09
 Scottsdale
 for
 Arcadia Resources

Field Job: 780
 ZONGE ZPLOT 7.35
 File: 09.Z, Plotted 18 Jan 08



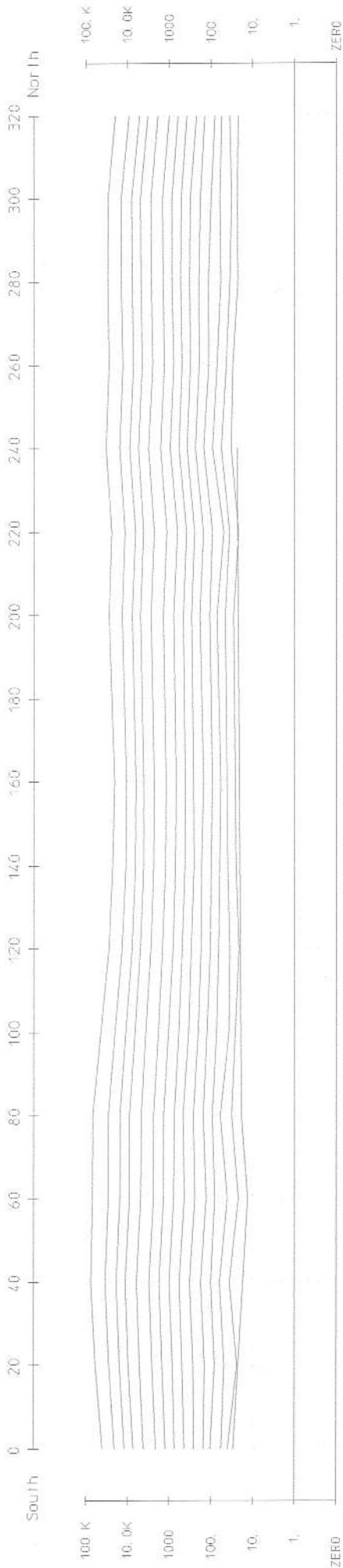
TEM SURVEY DATA
 dBz/dt uV/amp

Tx: -1420

SURVEY LINE DATA
 Line Orient: North
 Survey Date: Jan 2008

Window NUMBER and TIME (seconds)

: 3.530u*	: 41.07u*
: 5.140u*	: 51.48u*
: 6.740u*	: 64.24u*
: 8.350u*	: 80.22u*
: 10.73u*	: 100.90u*
: 13.95u*	
: 17.16u*	
: 21.13u*	
: 25.96u*	
: 32.28u*	



Line 10A
 Scat'sdale
 for
 Arcadio Resources

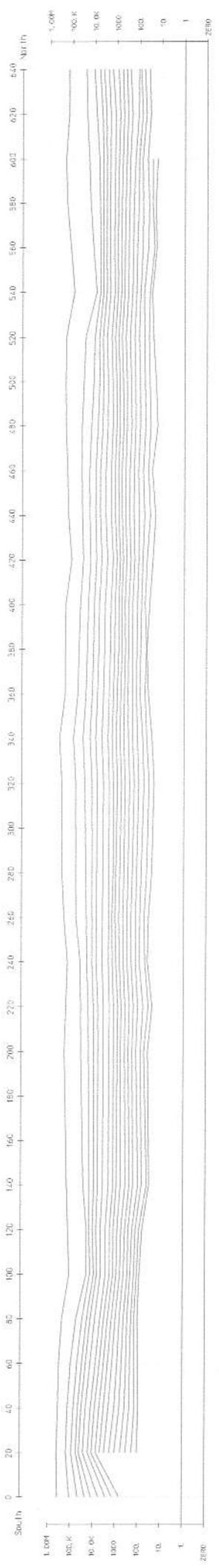


Field No: 780
 Date: 29/07/78
 File: 10A.1 Part 1 of 2

TEM SURVEY DATA
 dbzd11 uv/amp
 Tx -40
 SURVEY LINE DATA
 Line 10A - North
 Survey Date - Jan 2008

Window NUMBER and TIME (seconds)

1	1.623
2	36.268
3	533.4
4	41.076
5	6.766
6	7.312
7	24.226
8	392.4
9	82.226
10	100.964
11	13.954
12	128.064
13	23.134
14	25.964



Line JOB
 Scollisdale
 for
 Arcadia Resources

TEK SURVEY DATA
 dbz/cj uv/cjp
 T1 - 700
 WREY & BE DATA
 City of Arcadia
 Survey 2011 - 21-1000

Notes: 1427000 - BE CONTROL
 1 4 10th
 3 13th
 4 14th
 5 15th
 6 16th
 7 17th
 8 18th
 9 19th
 10 20th
 11 21st
 12 22nd
 13 23rd
 14 24th
 15 25th
 16 26th
 17 27th
 18 28th
 19 29th
 20 30th
 21 31st



Printed: 2/20/12
 2:00 PM
 21-1000-11-1000

