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E.L. 1/77

456001



CRA EXPLORATION PTY. LIMITED  
(INC. IN N.S.W.)

LEVEL 4, BELLERIVE QUAY,  
CAMBRIDGE ROAD, BELLERIVE, 7018, TASMANIA, AUSTRALIA

P.O. BOX 138  
BELLERIVE 7018  
TELEGRAMS: CRAEX  
TELEX: AA57144  
TELEPHONE: 44 3533  
AREA CODE: (002)

IN REPLY PLEASE QUOTE

21st February, 1984.

**MICROFILMED**

Memorandum To: T.W.DICKSON

From: M.F.FLIS

Subject: ATLAS TIME DOMAIN ELECTROMAGNETIC  
SURVEY

U.M.	A.O.	C.G.	E.O.	DEPT.
				Registrar
Received Answered				27 FEB 1984
DEPT. OF MINES				E & IL
REF. No. 2003/84				

J.M.R.D.

INTRODUCTION

**OPEN FILE**

A Sirotem E.M. survey was carried out on the Atlas grid (part of E.L. 1/77) in April of 1982 (see memo to G. Broadbent from M. Flis, 25th November 1982). A second E.M. survey, using the U.T.E.M. system, was undertaken between the 10th and the 13th of May 1983.

This second survey was undertaken to rectify two shortcomings of the original survey:-

1. doubt was expressed about whether the Sirotem equipment was working properly - that being one of the first times it was used in a "Turam" mode, and
2. the Sirotem loop was placed on the downdip side of the rocks for ease of operation. Although the rocks are generally steep dipping this may have caused coupling problems.

DISCUSSION

The location of the transmitter loop (1000m x 500m), along with the geology, is shown on Plan TASH 1641. Lines 3700mN, 3800mN, 3900mN, 4200mN, 4300mN, and 4400mN, were surveyed. The E.M. profiles are attached as Plans TASH 1381, 1382 and 1383 and as data tables in Appendix I.

001

Note that only continuously normalised profiles are presented whilst the tabulated data also contains point normalisation for lines 3900mN, 4200mN, 3200mN and 4400mN.

The following is an extract from the contractor's report:-

"The three western lines surveyed do not show the presence of any significant conductors.

One weak cross-over response at 4787E on line 3800N occurs over a weakly sulphidic dolomite unit but it is of limited strike extent (less than 100 metres), probably very thin, shallow (less than 25 metres) and of conductance less than 1 - 2 siemens.

In the eastern part of the area, lines 4200N and 4200N show evidence of a conductive zone at around 4838E (the ATLAS zone). Even though its cross-over shape is not so distinct on channel 9, due to the superposed effect of the migrating host rock response, its response at slightly later time is characterised by a positive amplitude build up and almost coincident roll-over on channels 7 and 6. A closer inspection of the cross-over behaviour shows that it migrates with time in an easterly direction from around 4800E (for channel 8) to around 4850E (for channel 6). This behaviour, together with the strong positive amplitude buildup and short time constant of the response (less than 0.4 msec), suggests that the response may be significantly enhanced by current-gathering.

The time constant of the effect suggests a maximum conductance of 2 to 3 siemens and the cross-over shape suggests a depth in the range 25 to 50 metres. It is possible that the response is due to a fairly continuous, more conductive (weakly mineralised ?) rock unit of at least 25 metres width, although the width estimated may be suspect because the cross-over migration effect may alternatively be due to an easterly dip of less than 70°.

Apart from the Atlas zone, the other weak effects in the data are caused by shallow (less than 25 metres) inhomogeneities of apparently small significance."

(G.Staltari  
Geophysical Exploration  
Consultants P/L).

An inspection of the U.T.E.M. Scale Model volumes essentially confirms the above interpretation, with the exception that the models indicate the anomalous zone could just as easily be interpreted as being caused by a restricted strike length conductor.

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An example of a scale model (Lamontagne Geophysics Ltd. 1983) which mimicks the field data quite well is attached. This model describes a vertical dyke-type body of "infinite" strike length and depth extent, a conductance of 0.9 Siemens a depth to 100m and with conductive overburden of 0.47 Siemens conductance.

The question of whether the anomaly is simply lithology caused cannot be answered, with confidence, on this data. However, it would be unlikely that dolomitic units could attain a resistivity as low as implied by the survey.

#### CONCLUSIONS AND RECOMMENDATIONS

The current E.M. survey served to upgrade the anomalous response mapped by the SIROTEM survey over the "Atlas Gossan". It did not map any major responses.

In light of both E.M. surveys, the geology and geochemistry, it is recommended that the "Atlas Gossan" be drilled. The target is 4825mE on line 4300mN at a depth of 50 metres. A moderately steep easterly dip (70°) is assumed.

MARCUS FLIS

LEGEND

- Creek
- Costean
- Adit
- Inferred geological boundary
- Dip and strike of bedding / foliation.
- All weather Road
- Fault
- Sheared zone - faulted and crumpled

ROCK TYPE

- TERTIARY**
  - Tertiary Basalt
  - Conglomerate
- PRE CAMBRIAN**
  - Porous limonitic caprock ('gossan') presumably developed over weakly sulphidic dolomite.
  - 'Keith Beds' - Schistose metagreywackes, metasilstones and shales. (undifferentiated). The finer grain units have been virtually completely altered to qtz - muscovite - sericite schist; the schistosity / foliation appears to be parallel or sub-parallel to original bedding directions.

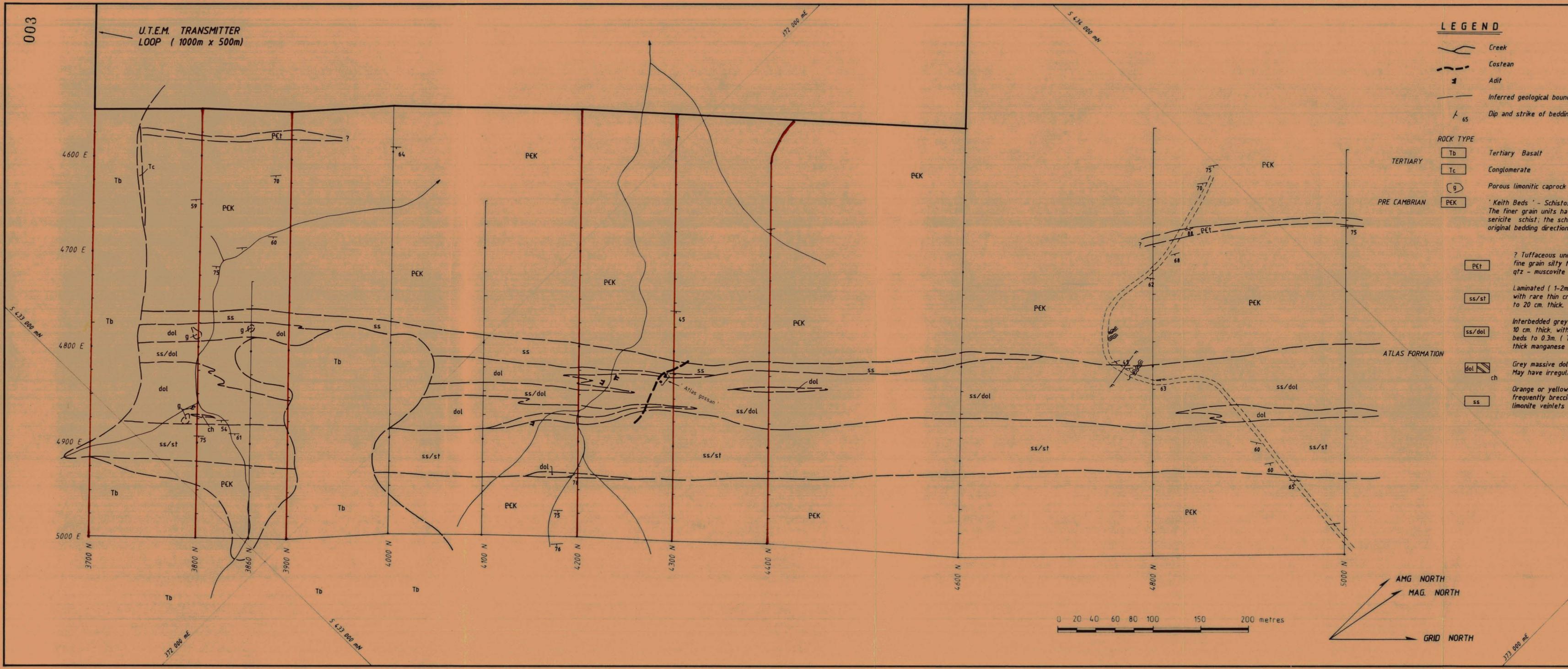
? Tuffaceous unit? orange / brown micaceous well laminated spotted fine grain silty textured rock, with sheared interbedded dark grey fine grain qtz - muscovite layers (shales?) and stained with Mn oxides in weathered outcrop.

Laminated (1-2mm) grey and brown micaceous sandstone / siltstone well bedded with rare thin crumbly sandy textured? tuffaceous or? dolomitic beds to 20 cm. thick.

Interbedded grey/beige micaceous siltstone and/or lesser dolomite beds up to 10 cm. thick, with limonitic / ferruginous interbeds and rare black manganese rich beds to 0.3m. (The 'Atlas gossan', where exposed in the costean has up to 3 m thick manganese rich beds.)

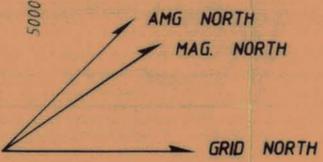
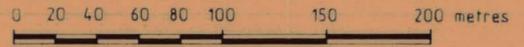
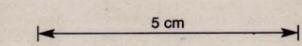
Grey massive dolomite, crystalline and occasionally finely banded 2-10 mm. May have irregular clasts and discontinuous bands of black or grey chert.

Orange or yellowish micaceous silty sandstone, massive and poorly: frequently brecciated and healed by anastomosing qtz - carbonate limonite veinlets 1 - 2 mm thick.



ATLAS FORMATION

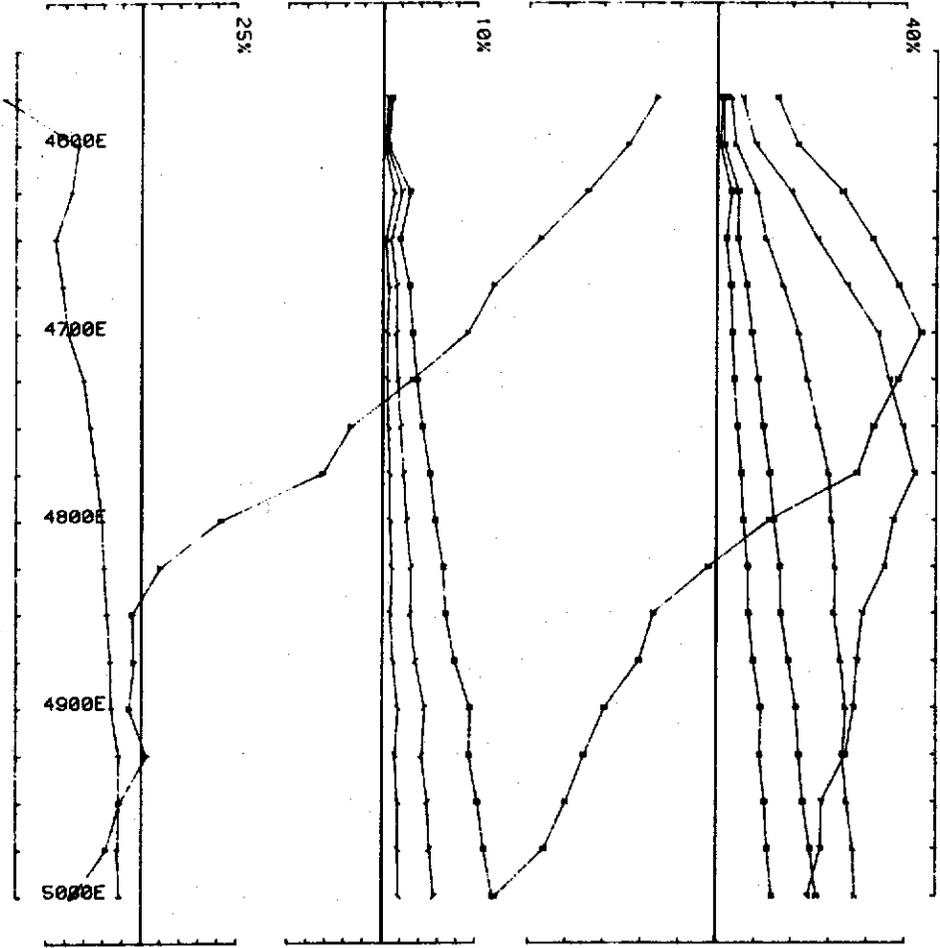
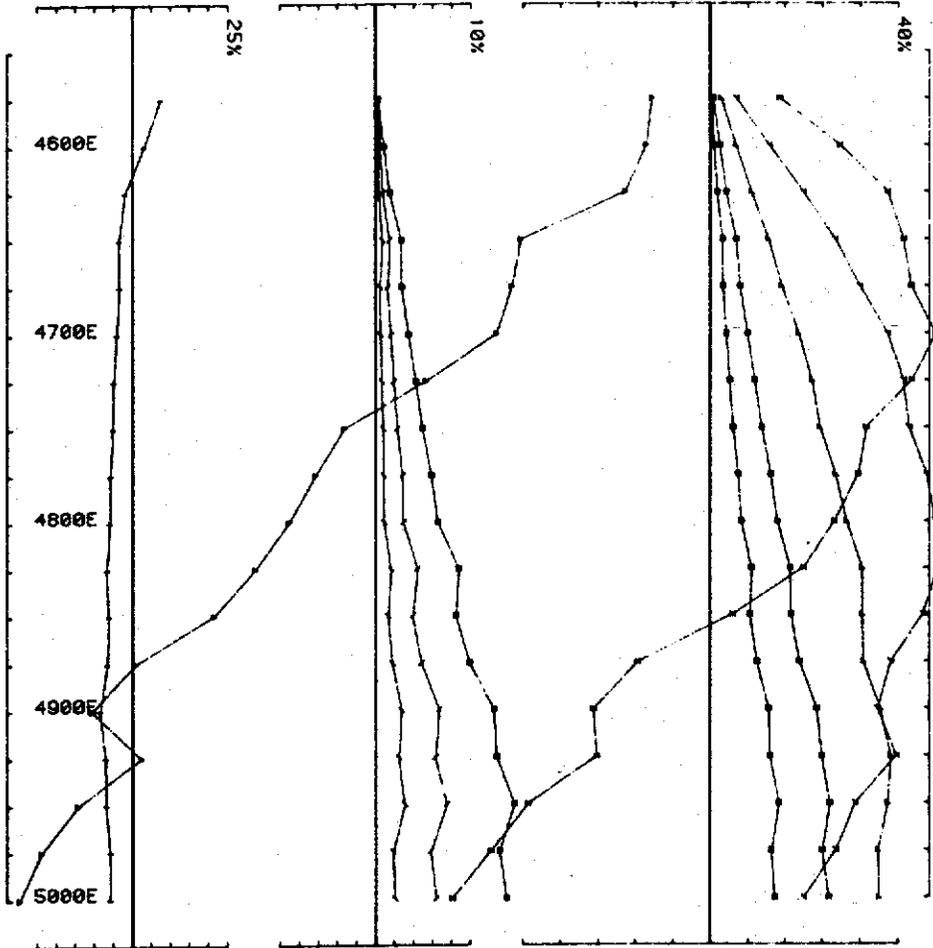
Atlas gossan



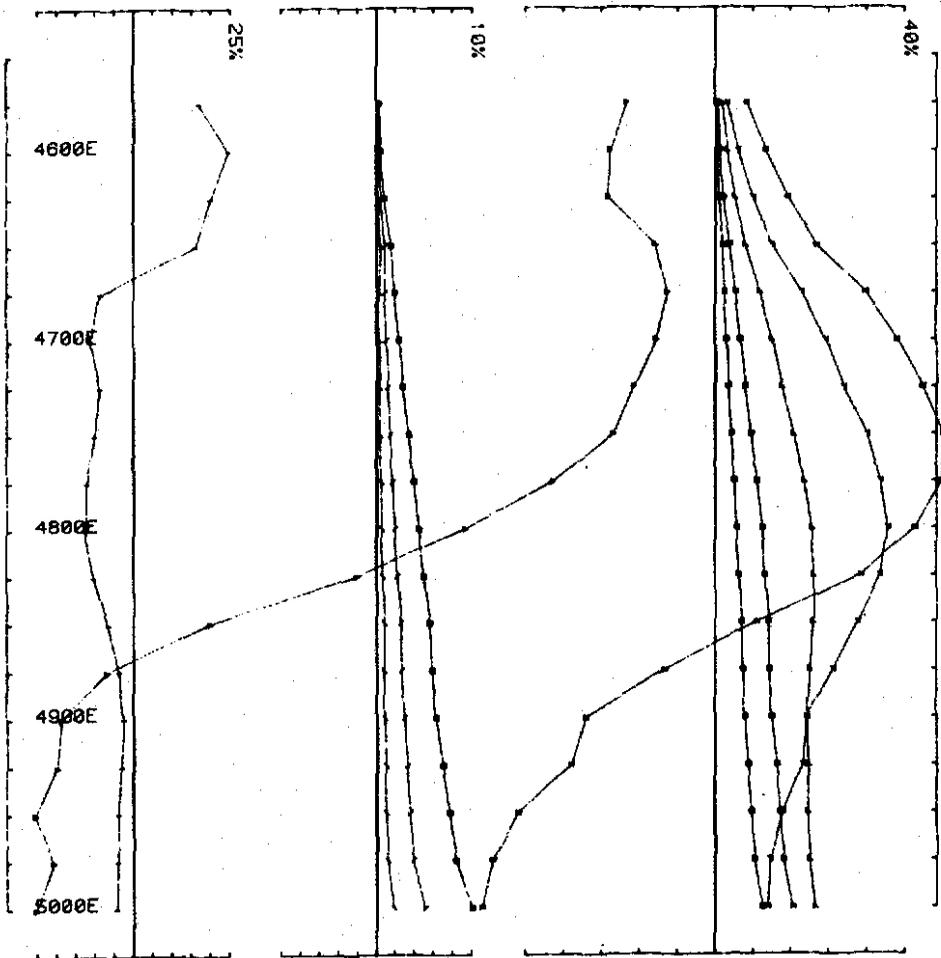
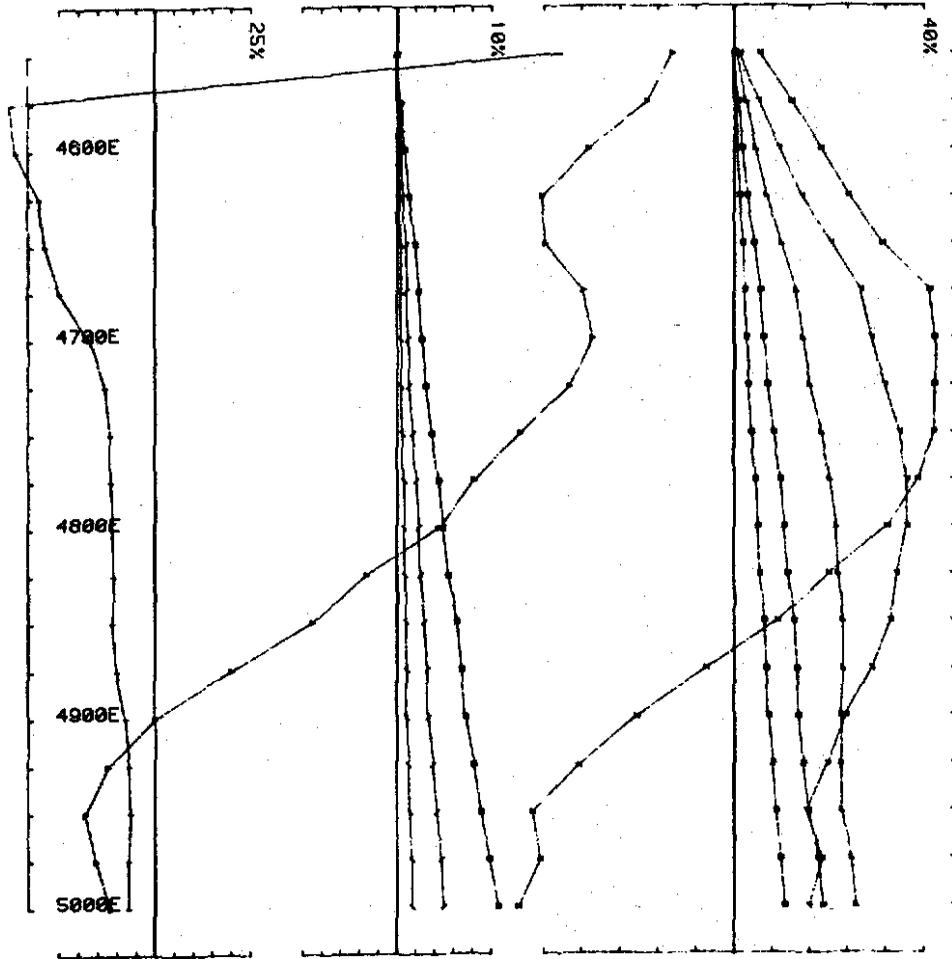
CRA EXPLORATION PTY. LIMITED

**ATLAS PROSPECT**  
Part of E.L. 1/77 ATLAS GRID  
GEOLOGY & U.T.E.M. SURVEY  
LOCATION PLAN

Ref: SK55 - 3	Drawn: R. T.
Scale: 1 : 2 500	Report N°: 11902
Author: G. B. M. F.	Plan N°: TASH 1641
Date: November 1982	



Plan No. TASH 1381

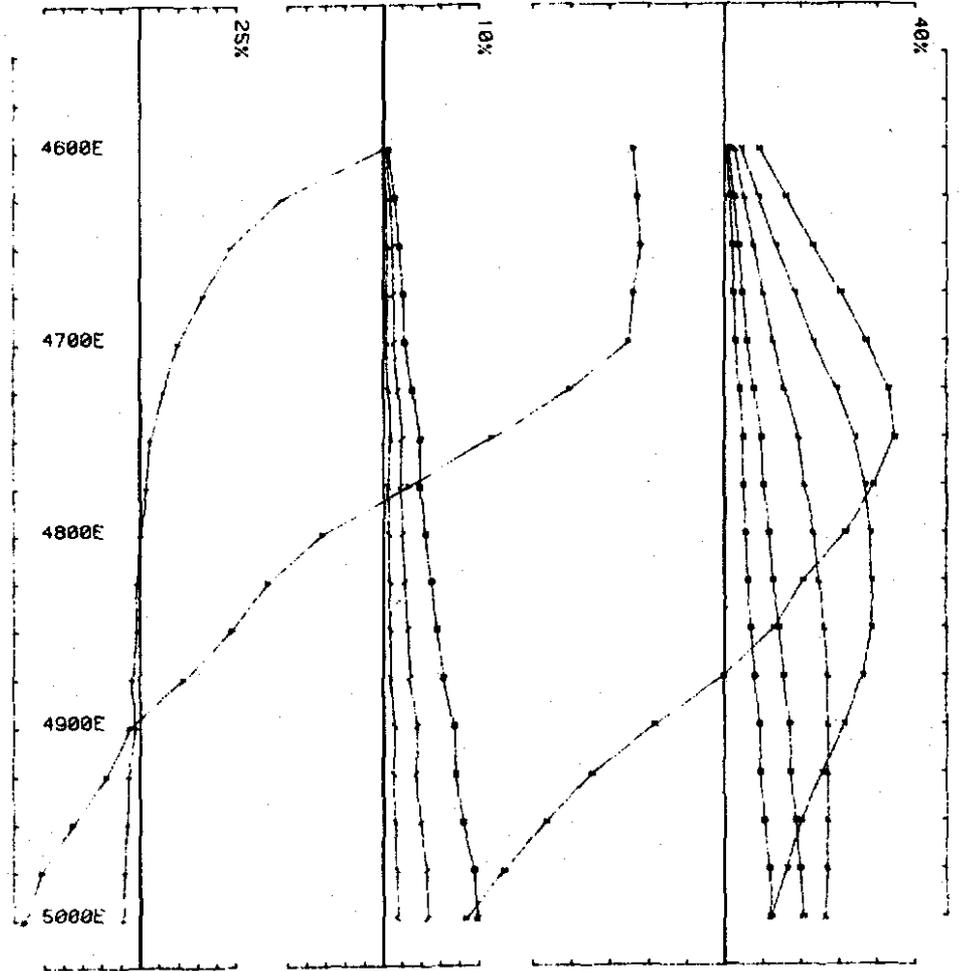
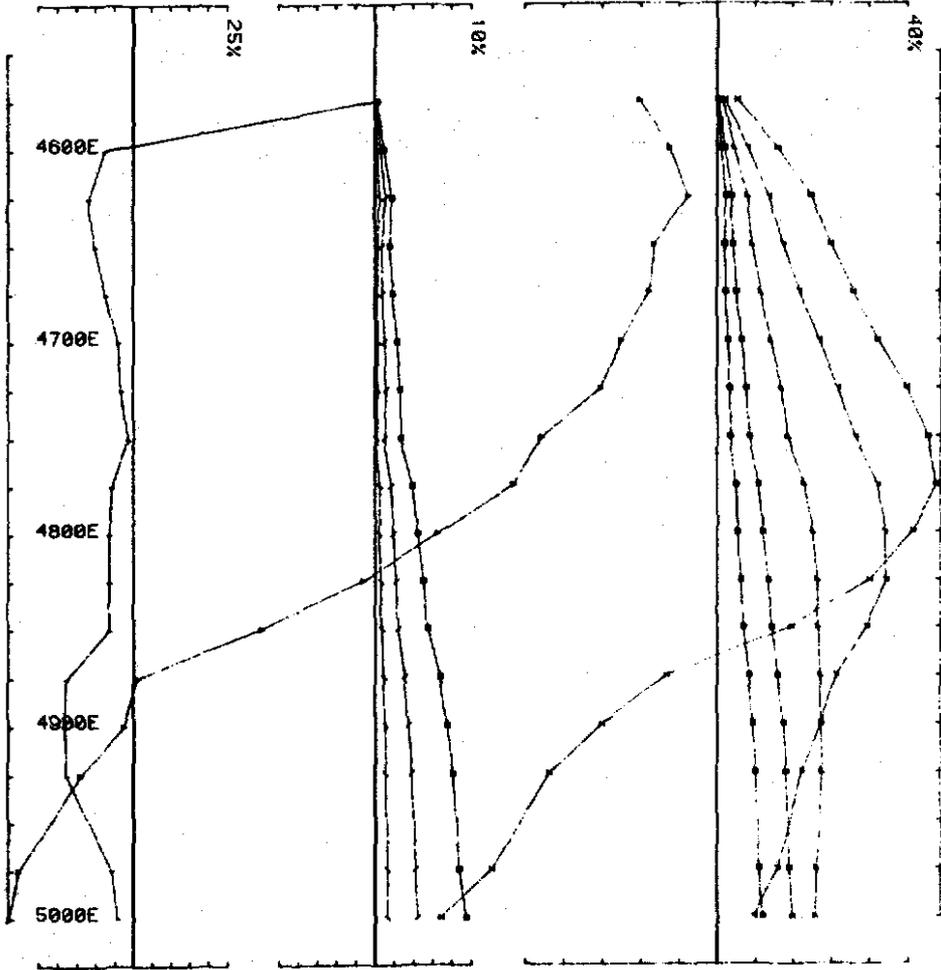


Plan No. TASH 1382

Area ATLAS PROSPECT CRA EXPLORATION PTY LTD Job 3101 freq(hz) 26.230  
 Loopno 0003 Line 3900N component Hz secondary Ch 1

Area ATLAS PROSPECT CRA EXPLORATION PTY LTD Job 3101 freq(hz) 26.230  
 Loopno 0003 Line 4200N component Hz secondary Ch 1

456006



Area ATLAS PROSPECT CRA EXPLORATION PTY LTD Job 3101 freq(hz) 26.230  
 Loopno 0003 Line 4300N component Hz secondary Ch 1

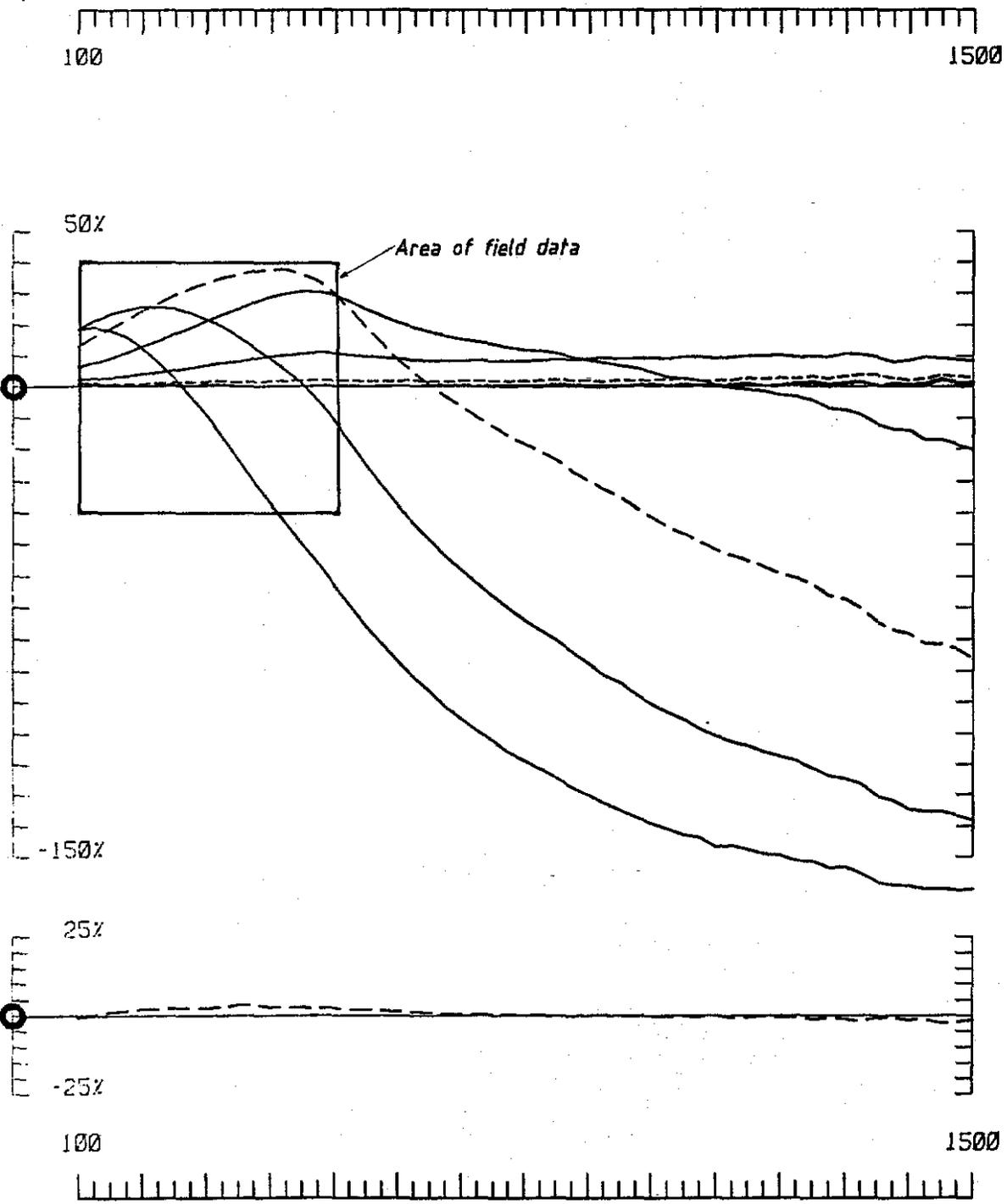
Area ATLAS PROSPECT CRA EXPLORATION PTY LTD Job 3101 freq(hz) 26.230  
 Loopno 0003 Line 4400N component Hz secondary Ch 1

Plan No. TASH 1383

456007

5 cm

SCALE MODEL FOR LINE 4300 MN



**MODEL: OVBDN/CONDUCTOR**

COMPONENT: Hz/Hp  
CONTINUOUSLY NORMALIZED

**UTEM SYSTEM**

BASE FREQUENCY 30 HERTZ

CHANNEL NO.	MEAN DELAY TIME (msec)	
1	12.8	-----
2	6.4	-----
3	3.2	-----
4	1.6	-----
5	0.8	-----
6	0.4	-----
7	0.2	-----
8	0.1	-----
9	0.05	-----

LOOP: L=1000m X 1000m  
LOOP EDGE AT:   
LINE: (100,0.0)m TO (1500,0.0)m

**OVERBURDEN**

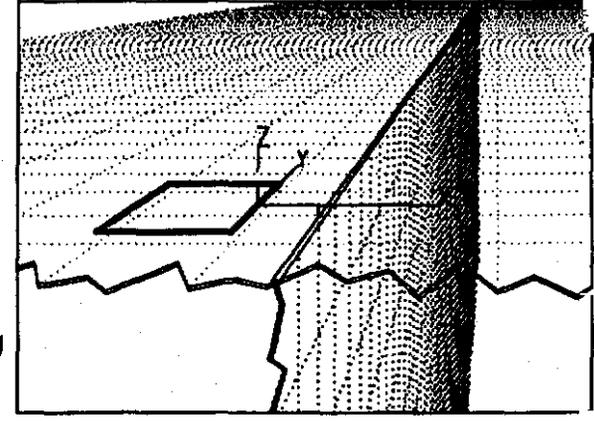
DIMENSIONS: PLANE (8L X 5L)  
CONDUCTANCE: 0.47 Siemens  
DEPTH: 100m

**CONDUCTOR**

DIMENSIONS: HALF PLANE  
STRIKE/PLUNGE: 90/0  
DIP: 90  
REF. POINT: (500,0.-100)m  
CONDUCTANCE: 0.90 Siemens

CONDUCTANCE RATIO: 0.52

NO CONTACT



456008

008

APPENDIX I

FIELD DATA

009

For : CRA EXPLORATION PTY LTD  
Date : May 11, 1983  
Job : 3101  
Loop : 0003  
Line : 3700N  
Component : Hz  
Frequency : 26.230

456010

Channel delay times and widths are (usec) :  
Ch1 1.443840E4 Ch2 7.219200E3 Ch3 3.609600E3 Ch4 1.804800E3  
Ch5 9.024001E2 Ch6 4.512000E2 Ch7 2.256000E2 Ch8 1.128000E2  
Ch9 5.640000E1 Ch10 2.820000E1

Loop corner grid coordinates (corner , x , y , arbitrary elev)  
Corner 1 4551E 3700N 0  
Corner 2 4551E 4600N 0  
Corner 3 4050E 4600N 0  
Corner 4 4050E 3700N 0

The data presented is secondary field data, continuously normalized with respect to Channel 1.

Station : 4575E  
1) 7.420301 2) 1.640316E-1 3) 2.300282E-1 4) 2.633539E-1  
5) 6.478255E-1 6) 2.317905 7) 5.349077 8) 1.476630E1  
9) -1.258172E1 10) -1.674623E2  
Primary field strength (in Amp/m) : 3.141427E-3

Station : 4600E  
1) 3.048396 2) 2.428992E-1 3) 4.813331E-1 4) 8.529064E-1  
5) 2.028278 6) 5.340405 7) 1.245958E1 8) 2.764430E1  
9) -1.386415E1 10) -1.733439E2  
Primary field strength (in Amp/m) : 1.456871E-3

Station : 4625E  
1) -1.844925 2) 3.396105E-1 3) 7.655901E-1 4) 1.497253  
5) 3.494085 6) 8.722141 7) 1.984363E1 8) 3.790209E1  
9) -1.825032E1 10) -1.772751E2  
Primary field strength (in Amp/m) : 9.147706E-4

Station : 4650E  
1) -3.377092 2) 6.952967E-1 3) 1.490960 4) 2.683997  
5) 5.467535 6) 1.241289E1 7) 2.657733E1 8) 4.110091E1  
9) -4.061528E1 10) -1.840516E2  
Primary field strength (in Amp/m) : 6.492610E-4

Station : 4675E  
1) -3.277963 2) 4.822624E-1 3) 1.283346 4) 2.749903  
5) 6.349702 6) 1.520053E1 7) 3.185341E1 8) 4.275880E1  
9) -4.250228E1 10) -1.829213E2  
Primary field strength (in Amp/m) : 4.928022E-4

Station : 4700E  
1) -4.124415 2) 5.510761E-1 3) 1.605632 4) 3.474480  
5) 7.947403 6) 1.889815E1 7) 3.780568E1 8) 4.807254E1  
9) -4.566968E1 10) -1.819574E2  
Primary field strength (in Amp/m) : 3.903290E-4

Station : 4725E  
1) -4.782605 2) 6.556816E-1 3) 1.912158 4) 4.191237  
5) 9.487665 6) 2.171337E1 7) 4.119059E1 8) 4.298301E1  
9) -6.060158E1 10) -1.882120E2  
Primary field strength (in Amp/m) : 3.184448E-4

Station : 4750E  
1) -5.038154 2) 7.926397E-1 3) 2.301645 4) 4.925428  
5) 1.094825E1 6) 2.348655E1 7) 4.235075E1 8) 3.335177E1  
9) -7.765466E1 10) -1.841108E2  
Primary field strength (in Amp/m) : 2.655259E-4

010

1)-5.659729 2) 8.861190E-1 3) 2.821704 4) 5.853179  
5) 1.290863E1 6) 2.683989E1 7) 4.620215E1 8) 3.154870E1  
9)-8.376868E1 10)-1.862036E2  
Primary field strength (in Amp/m) : 2.251489E-4

Station : 4800E  
1)-5.801094 2) 9.015973E-1 3) 2.967226 4) 6.569812  
5) 1.427585E1 6) 2.920808E1 7) 4.794959E1 8) 2.655348E1  
9)-8.924501E1 10)-1.856348E2  
Primary field strength (in Amp/m) : 1.934785E-4

Station : 4825E  
1)-6.548464 2) 1.650342 3) 4.414728 4) 8.731016  
5) 1.702045E1 6) 3.250890E1 7) 4.841286E1 8) 1.994934E1  
9)-9.622227E1 10)-1.870146E2  
Primary field strength (in Amp/m) : 1.680860E-4

Station : 4850E  
1)-6.138229 2) 1.308947 3) 3.927088 4) 8.457364  
5) 1.727373E1 6) 3.250230E1 7) 4.535065E1 8) 4.774461  
9)-1.047509E2 10)-1.888377E2  
Primary field strength (in Amp/m) : 1.473597E-4

Station : 4875E  
1)-6.540495 2) 1.801134 3) 4.820202 4) 9.922581  
5) 1.905038E1 6) 3.272518E1 7) 3.853658E1 8)-1.544272E1  
9)-1.212154E2 10)-1.929573E2  
Primary field strength (in Amp/m) : 1.301890E-4

Station : 4900E  
1)-8.359796 2) 2.761971 3) 6.686008 4) 1.251262E1  
5) 2.271121E1 6) 3.627152E1 7) 3.565662E1 8)-2.496512E1  
9)-1.304401E2 10)-1.866786E2  
Primary field strength (in Amp/m) : 1.157848E-4

Station : 4925E  
1)-6.866592 2) 2.417244 3) 6.319295 4) 1.281719E1  
5) 2.392568E1 6) 3.850174E1 7) 3.970509E1 8)-2.424782E1  
9)-1.199731E2 10)-1.952113E2  
Primary field strength (in Amp/m) : 1.035714E-4

Station : 4950E  
1)-6.757707 2) 3.111095 3) 7.508077 4) 1.470632E1  
5) 2.555247E1 6) 3.793205E1 7) 3.099045E1 8)-3.894737E1  
9)-1.332623E2 10)-1.961858E2  
Primary field strength (in Amp/m) : 9.311933E-5

Station : 4975E  
1)-5.739284 2) 1.880498 3) 5.852972 4) 1.308720E1  
5) 2.394453E1 6) 3.583049E1 7) 2.684871E1 8)-4.668559E1  
9)-1.410440E2 10)-1.916722E2  
Primary field strength (in Amp/m) : 8.410182E-5

Station : 5000E  
1)-5.831450 2) 2.072858 3) 6.422900 4) 1.384714E1  
5) 2.538189E1 6) 3.609969E1 7) 1.997636E1 8)-5.496158E1  
9)-1.456829E2 10)-1.931776E2  
Primary field strength (in Amp/m) : 7.626640E-5

011

Area : ATLAS PROSPECT  
For : CRA EXPLORATION PTY LTD  
Date : May 11, 1983  
Job : 3101  
Loop : 0003  
Line : 3800N  
Component : Hz  
Frequency : 26.230

456012

Channel delay times and widths are (usec) :

Ch1 1.443840E4 Ch2 7.219200E3 Ch3 3.609600E3 Ch4 1.804800E3  
Ch5 9.024001E2 Ch6 4.512000E2 Ch7 2.256000E2 Ch8 1.128000E2  
Ch9 5.640000E1 Ch10 2.820000E1

Loop corner grid coordinates (corner , x , y , arbitrary elev)

Corner 1 4551E 3700N 0  
Corner 2 4551E 4600N 0  
Corner 3 4050E 4600N 0  
Corner 4 4050E 3700N 0

The data presented is secondary field data, continuously normalized with respect to Channel 1.

Station : 4575E

1) -3.609683E1 2) 5.416665E-1 3) 7.919188E-1 4) 9.547090E-1  
5) 1.396769 6) 2.906557 7) 5.319818 8) 1.282381E1  
9) -1.254838E1 10) -1.621472E2

Primary field strength (in Amp/m) : 5.735723E-3

Station : 4600E

1) -1.662853E1 2) 2.244089E-1 3) 3.884135E-1 4) 6.191138E-1  
5) 1.449132 6) 3.842562 7) 8.072773 8) 1.715438E1  
9) -1.866199E1 10) -1.686464E2

Primary field strength (in Amp/m) : 2.451188E-3

Station : 4625E

1) -1.846234E1 2) 1.235052 3) 2.065023 4) 2.928438  
5) 4.507217 6) 8.443269 7) 1.568473E1 8) 2.661830E1  
9) -2.728081E1 10) -1.756947E2

Primary field strength (in Amp/m) : 1.439597E-3

Station : 4650E

1) -2.262998E1 2) 3.578512E-1 3) 8.949555E-1 4) 1.892757  
5) 4.373664 6) 1.040789E1 7) 2.137276E1 8) 3.300204E1  
9) -3.741072E1 10) -1.808048E2

Primary field strength (in Amp/m) : 9.685002E-4

Station : 4675E

1) -2.065953E1 2) 6.435745E-1 3) 1.509242 4) 2.895646  
5) 6.285097 6) 1.399188E1 7) 2.759212E1 8) 3.858853E1  
9) -4.719369E1 10) -1.841115E2

Primary field strength (in Amp/m) : 7.042513E-4

Station : 4700E

1) -1.912279E1 2) 5.069075E-1 3) 1.493491 4) 3.228888  
5) 7.437373 6) 1.732371E1 7) 3.420208E1 8) 4.337252E1  
9) -5.283141E1 10) -1.826347E2

Primary field strength (in Amp/m) : 5.387627E-4

Station : 4725E

1) -1.507466E1 2) 5.768485E-1 3) 1.677366 4) 3.691557  
5) 8.728696 6) 1.929136E1 7) 3.656088E1 8) 3.847103E1  
9) -6.461081E1 10) -1.833410E2

Primary field strength (in Amp/m) : 4.271574E-4

Station : 4750E

1) -1.348900E1 2) 6.736880E-1 3) 1.979339 4) 4.339066  
5) 9.894422 6) 2.156430E1 7) 3.950352E1 8) 3.331332E1  
9) -7.767512E1 10) -1.880533E2

Primary field strength (in Amp/m) : 3.477610E-4

012

Station : 4775E  
1) -1.183333E1 2) 8.096318E-1 3) 2.355145 4) 5.132954  
5) 1.126766E1 6) 2.387993E1 7) 4.207932E1 8) 2.988355E1  
9) -8.364578E1 10) -1.868544E2  
Primary field strength (in Amp/m) : 2.889542E-4

Station : 4800E  
1) -1.021489E1 2) 8.827796E-1 3) 2.637286 4) 5.693831  
5) 1.216102E1 6) 2.444246E1 7) 3.753728E1 8) 1.117298E1  
9) -1.050476E2 10) -1.898322E2  
Primary field strength (in Amp/m) : 2.440057E-4

Station : 4825E  
1) -9.603919 2) 1.022910 3) 3.103044 4) 6.563053  
5) 1.346941E1 6) 2.519170E1 7) 3.566617E1 8) -1.770684  
9) -1.178915E2 10) -1.909241E2  
Primary field strength (in Amp/m) : 2.087742E-4

Station : 4850E  
1) -8.905930 2) 8.839467E-1 3) 2.984477 4) 6.832426  
5) 1.367798E1 6) 2.499957E1 7) 3.098537E1 8) -1.326245E1  
9) -1.237820E2 10) -1.949906E2  
Primary field strength (in Amp/m) : 1.805860E-4

Station : 4875E  
1) -7.944030 2) 1.166867 3) 3.597575 4) 7.789100  
5) 1.535015E1 6) 2.636551E1 7) 2.990206E1 8) -1.631693E1  
9) -1.234637E2 10) -1.879274E2  
Primary field strength (in Amp/m) : 1.576447E-4

Station : 4900E  
1) -7.705087 2) 1.673129 3) 4.588493 4) 9.406138  
5) 1.695152E1 6) 2.738492E1 7) 2.913453E1 8) -2.366111E1  
9) -1.245094E2 10) -1.872216E2  
Primary field strength (in Amp/m) : 1.387034E-4

Station : 4925E  
1) -5.888671 2) 1.369355 3) 4.265583 4) 9.279086  
5) 1.760444E1 6) 2.681269E1 7) 2.741601E1 8) -2.814645E1  
9) -1.207941E2 10) -1.920082E2  
Primary field strength (in Amp/m) : 1.228717E-4

Station : 4950E  
1) -5.793792 2) 1.676944 3) 4.863229 4) 1.021534E1  
5) 1.845503E1 6) 2.771058E1 7) 2.236221E1 8) -3.196962E1  
9) -1.264490E2 10) -1.946522E2  
Primary field strength (in Amp/m) : 1.094981E-4

Station : 4975E  
1) -6.172806 2) 1.663676 3) 5.142257 4) 1.090942E1  
5) 1.999603E1 6) 2.918845E1 7) 2.213474E1 8) -3.665183E1  
9) -1.293812E2 10) -1.895306E2  
Primary field strength (in Amp/m) : 9.809617E-5

Station : 5000E  
1) -5.738157 2) 1.826790 3) 5.579027 4) 1.181141E1  
5) 2.136650E1 6) 2.961109E1 7) 1.938001E1 8) -4.698739E1  
9) -1.364522E2 10) -1.884278E2  
Primary field strength (in Amp/m) : 8.829624E-5

456013

013

Area : ATLAS PROSPECT  
For : CRA EXPLORATION PTY LTD  
Date : May 11, 1983  
Job : 3101  
Loop : 0003  
Line : 3900N  
Component : Hz  
Frequency : 26.230

456014

Channel delay times and widths are (usec) :  
Ch1 1.443840E4 Ch2 7.219200E3 Ch3 3.609600E3 Ch4 1.804800E3  
Ch5 9.024001E2 Ch6 4.512000E2 Ch7 2.256000E2 Ch8 1.128000E2  
Ch9 5.640000E1 Ch10 2.820000E1

Loop corner grid coordinates (corner , x , y , arbitrary elev)  
Corner 1 4551E 3700N 0  
Corner 2 4551E 4600N 0  
Corner 3 4050E 4600N 0  
Corner 4 4050E 3700N 0

The data presented is secondary field data, continuously normalized with respect to Channel 1.

Station : 4550E  
1) 1.066794E2 2) 1.543567E-1 3) 1.558403E-1 4) 6.264398E-2  
5) 1.106197E-1 6) 7.655705E-1 7) 1.315847 8) 5.450405  
9) -1.291404E1 10) -1.529856E2  
Primary field strength (in Amp/m) : 1.597802E-1

Station : 4575E  
1) -4.746621E1 2) 1.932217E-1 3) 2.966515E-1 4) 3.890644E-1  
5) 8.781208E-1 6) 2.546851 7) 5.120297 8) 1.233315E1  
9) -1.805973E1 10) -1.633500E2  
Primary field strength (in Amp/m) : 6.041942E-3

Station : 4600E  
1) -3.617485E1 2) 2.559655E-1 3) 4.923384E-1 4) 8.457070E-1  
5) 1.859231 6) 4.608827 7) 9.564970 8) 1.851148E1  
9) -3.050054E1 10) -1.733354E2  
Primary field strength (in Amp/m) : 2.692683E-3

Station : 4625E  
1) -3.015630E1 2) 2.962580E-1 3) 6.727782E-1 4) 1.296435  
5) 2.910744 6) 6.902960 7) 1.429040E1 8) 2.425498E1  
9) -4.033225E1 10) -1.770601E2  
Primary field strength (in Amp/m) : 1.627614E-3

Station : 4650E  
1) -2.870777E1 2) 3.929486E-1 3) 9.694795E-1 4) 1.941985  
5) 4.269846 6) 9.923332 7) 2.048338E1 8) 3.143316E1  
9) -3.968317E1 10) -1.772519E2  
Primary field strength (in Amp/m) : 1.114619E-3

Station : 4675E  
1) -2.480588E1 2) 3.966000E-1 3) 1.064708 4) 2.349042  
5) 5.623337 6) 1.306052E1 7) 2.674942E1 8) 4.123033E1  
9) -3.155207E1 10) -1.746332E2  
Primary field strength (in Amp/m) : 8.183835E-4

Station : 4700E  
1) -1.690720E1 2) 4.398071E-1 3) 1.199592 4) 2.702893  
5) 6.298426 6) 1.451066E1 7) 2.920265E1 8) 4.244183E1  
9) -2.969674E1 10) -1.727360E2  
Primary field strength (in Amp/m) : 6.286745E-4

Station : 4725E  
1) -1.309504E1 2) 4.365705E-1 3) 1.300363 4) 3.096480  
5) 7.125216 6) 1.609097E1 7) 3.192505E1 8) 4.239360E1  
9) -3.453056E1 10) -1.754758E2  
Primary field strength (in Amp/m) : 4.986965E-4

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1) -1.26177E1 2) 0.001239E-1 3) 1.673077 4) 3.691519  
5) 8.412776 6) 1.856280E1 7) 3.502337E1 8) 4.215745E1  
9) -4.500932E1 10) -1.771206E2  
Primary field strength (in Amp/m) : 4.052654E-4

Station : 4775E  
1) -1.171690E1 2) 7.160476E-1 3) 2.050738 4) 4.419785  
5) 9.744019 6) 2.025031E1 7) 3.646735E1 8) 3.876835E1  
9) -5.491255E1 10) -1.801544E2  
Primary field strength (in Amp/m) : 3.356356E-4

Station : 4800E  
1) -1.123717E1 2) 8.158110E-1 3) 2.339200 4) 4.952823  
5) 1.059002E1 6) 2.167063E1 7) 3.645272E1 8) 3.241105E1  
9) -6.214598E1 10) -1.780448E2  
Primary field strength (in Amp/m) : 2.822537E-4

Station : 4825E  
1) -1.074173E1 2) 8.837032E-1 3) 2.563637 4) 5.464462  
5) 1.137676E1 6) 2.214152E1 7) 3.439192E1 8) 2.020399E1  
9) -7.756536E1 10) -1.836999E2  
Primary field strength (in Amp/m) : 2.403818E-4

Station : 4850E  
1) -1.134055E1 2) 9.750119E-1 3) 2.880550 4) 6.359564  
5) 1.282869E1 6) 2.308637E1 7) 3.307898E1 8) 9.204880  
9) -8.895342E1 10) -1.872872E2  
Primary field strength (in Amp/m) : 2.069118E-4

Station : 4875E  
1) -1.019631E1 2) 9.941222E-1 3) 3.217005 4) 6.849481  
5) 1.333788E1 6) 2.303894E1 7) 2.915148E1 8) -5.755966  
9) -1.059507E2 10) -1.874715E2  
Primary field strength (in Amp/m) : 1.797291E-4

Station : 4900E  
1) -7.892138 2) 9.697580E-1 3) 3.284550 4) 7.265846  
5) 1.376695E1 6) 2.263774E1 7) 2.360573E1 8) -2.038127E1  
9) -1.220671E2 10) -1.914685E2  
Primary field strength (in Amp/m) : 1.573514E-4

Station : 4925E  
1) -6.846148 2) 1.255165 3) 3.863168 4) 8.192526  
5) 1.472021E1 6) 2.274930E1 7) 1.968233E1 8) -3.254670E1  
9) -1.317957E2 10) -1.882950E2  
Primary field strength (in Amp/m) : 1.387126E-4

Station : 4950E  
1) -6.479871 2) 1.393614 3) 4.264945 4) 8.949276  
5) 1.584587E1 6) 2.282340E1 7) 1.537826E1 8) -4.237318E1  
9) -1.364859E2 10) -1.934366E2  
Primary field strength (in Amp/m) : 1.230286E-4

Station : 4975E  
1) -7.109970 2) 1.561764 3) 4.710106 4) 9.812215  
5) 1.791771E1 6) 2.488811E1 7) 1.873771E1 8) -4.078670E1  
9) -1.342995E2 10) -1.785234E2  
Primary field strength (in Amp/m) : 1.097118E-4

Station : 5000E  
1) -7.065124 2) 1.617251 3) 4.944181 4) 1.069730E1  
5) 1.879298E1 6) 2.579669E1 7) 1.573179E1 8) -4.540651E1  
9) -1.313591E2 10) -1.942796E2  
Primary field strength (in Amp/m) : 9.831474E-5

Area : ATLAS PROSPECT  
For : CRA EXPLORATION PTY LTD  
Date : May 11, 1983  
Job : 3101  
Loop : 0003  
Line : 3900N  
Component : Hz  
Frequency : 26.230

456016

Channel delay times and widths are (usec) :

Ch1 1.443840E4 Ch2 7.219200E3 Ch3 3.609600E3 Ch4 1.804800E3  
Ch5 9.024001E2 Ch6 4.512000E2 Ch7 2.256000E2 Ch8 1.128000E2  
Ch9 5.640000E1 Ch10 2.820000E1

Loop corner grid coordinates (corner , x , y , arbitrary elev)

Corner 1 4551E 3700N 0  
Corner 2 4551E 4600N 0  
Corner 3 4050E 4600N 0  
Corner 4 4050E 3700N 0

The data presented are secondary field data, point normalized to station 4875E with respect to Channel 1.

Station : 4550E

1) 9.483860E4 2) 1.372240E2 3) 1.385429E2 4) 5.569085E1  
5) 9.834157E1 6) 6.805966E2 7) 1.169796E3 8) 4.845442E3  
9) -1.148065E4 10) -1.360051E5

Primary field strength (in Amp/m) : 1.597802E-1

Station : 4575E

1) -1.595668E3 2) 6.495523 3) 9.972517 4) 1.307915E1  
5) 2.951973E1 6) 8.561733E1 7) 1.721287E2 8) 4.146028E2  
9) -6.071127E2 10) -5.491328E3

Primary field strength (in Amp/m) : 6.041942E-3

Station : 4600E

1) -5.419679E2 2) 3.834849 3) 7.376163 4) 1.267030E1  
5) 2.785481E1 6) 6.904897E1 7) 1.433014E2 8) 2.773371E2  
9) -4.569560E2 10) -2.596893E3

Primary field strength (in Amp/m) : 2.692683E-3

Station : 4625E

1) -2.730933E2 2) 2.682891 3) 6.092632 4) 1.174042E1  
5) 2.635949E1 6) 6.251272E1 7) 1.294129E2 8) 2.196514E2  
9) -3.652460E2 10) -1.603444E3

Primary field strength (in Amp/m) : 1.627614E-3

Station : 4650E

1) -1.780358E2 2) 2.436934 3) 6.012382 4) 1.204354E1  
5) 2.648014E1 6) 6.154113E1 7) 1.270310E2 8) 1.949378E2  
9) -2.461015E2 10) -1.099256E3

Primary field strength (in Amp/m) : 1.114619E-3

Station : 4675E

1) -1.129518E2 2) 1.805890 3) 4.848070 4) 1.069620E1  
5) 2.560546E1 6) 5.947013E1 7) 1.218016E2 8) 1.877393E2  
9) -1.436701E2 10) -7.951796E2

Primary field strength (in Amp/m) : 8.183835E-4

Station : 4700E

1) -5.913972E1 2) 1.538401 3) 4.196053 4) 9.454450  
5) 2.203127E1 6) 5.075686E1 7) 1.021480E2 8) 1.484573E2  
9) -1.038762E2 10) -6.042135E2

Primary field strength (in Amp/m) : 6.286745E-4

Station : 4725E

1) -3.633498E1 2) 1.211358 3) 3.608134 4) 8.591841  
5) 1.977042E1 6) 4.464780E1 7) 8.858283E1 8) 1.176301E2  
9) -9.581235E1 10) -4.868948E2

Primary field strength (in Amp/m) : 4.986965E-4

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- 1)-2.664736E1 2) 1.251731 3) 3.772568 4) 8.323886
- 5) 1.896970E1 6) 4.185666E1 7) 7.897306E1 8) 9.505948E1
- 9)-1.014901E2 10)-3.993836E2

Primary field strength (in Amp/m) : 4.052654E-4

Station : 4775E

- 1)-2.188076E1 2) 1.337185 3) 3.829657 4) 8.253740
- 5) 1.819649E1 6) 3.781650E1 7) 6.810105E1 8) 7.239807E1
- 9)-1.025466E2 10)-3.364298E2

Primary field strength (in Amp/m) : 3.356356E-4

Station : 4800E

- 1)-1.764729E1 2) 1.281182 3) 3.673572 4) 7.778109
- 5) 1.663099E1 6) 3.403242E1 7) 5.724679E1 8) 5.089960E1
- 9)-9.759651E1 10)-2.796086E2

Primary field strength (in Amp/m) : 2.822537E-4

Station : 4825E

- 1)-1.436672E1 2) 1.181924 3) 3.428781 4) 7.308539
- 5) 1.521605E1 6) 2.961356E1 7) 4.599807E1 8) 2.702218E1
- 9)-1.037411E2 10)-2.456926E2

Primary field strength (in Amp/m) : 2.403818E-4

Station : 4850E

- 1)-1.305572E1 2) 1.122475 3) 3.316212 4) 7.321402
- 5) 1.476893E1 6) 2.657801E1 7) 3.808193E1 8) 1.059705E1
- 9)-1.024070E2 10)-2.156130E2

Primary field strength (in Amp/m) : 2.069118E-4

Station : 4875E

- 1)-1.019631E1 2) 9.941222E-1 3) 3.217005 4) 6.849481
- 5) 1.333788E1 6) 2.303894E1 7) 2.915148E1 8)-5.755966
- 9)-1.059507E2 10)-1.874715E2

Primary field strength (in Amp/m) : 1.797291E-4

Station : 4900E

- 1)-6.909504 2) 8.490153E-1 3) 2.875598 4) 6.361190
- 5) 1.205285E1 6) 1.981916E1 7) 2.066663E1 8)-1.784364E1
- 9)-1.068688E2 10)-1.676291E2

Primary field strength (in Amp/m) : 1.573514E-4

Station : 4925E

- 1)-5.283768 2) 9.687201E-1 3) 2.981543 4) 6.322885
- 5) 1.136087E1 6) 1.755762E1 7) 1.519057E1 8)-2.511912E1
- 9)-1.017182E2 10)-1.453236E2

Primary field strength (in Amp/m) : 1.387126E-4

Station : 4950E

- 1)-4.435617 2) 9.539597E-1 3) 2.919450 4) 6.125980
- 5) 1.084685E1 6) 1.562313E1 7) 1.052676E1 8)-2.900539E1
- 9)-9.342769E1 10)-1.324117E2

Primary field strength (in Amp/m) : 1.230286E-4

Station : 4975E

- 1)-4.340130 2) 9.533458E-1 3) 2.875184 4) 5.989657
- 5) 1.093748E1 6) 1.519242E1 7) 1.143804E1 8)-2.489737E1
- 9)-8.198030E1 10)-1.089758E2

Primary field strength (in Amp/m) : 1.097118E-4

Station : 5000E

- 1)-3.864737 2) 8.846628E-1 3) 2.704547 4) 5.851597
- 5) 1.028006E1 6) 1.411121E1 7) 8.605545 8)-2.483810E1
- 9)-7.185553E1 10)-1.062741E2

Primary field strength (in Amp/m) : 9.831474E-5

017

Area : ATLAS PROSPECT  
 For : CRA EXPLORATION PTY LTD  
 Date : May 12, 1983  
 Job : 3101  
 Loop : 0003  
 Line : 4200N  
 Component : Hz  
 Frequency : 26.230

Channel delay times and widths are (usec) :

Ch1	1.443840E4	Ch2	7.219200E3	Ch3	3.609600E3	Ch4	1.804800E3
Ch5	9.024001E2	Ch6	4.512000E2	Ch7	2.256000E2	Ch8	1.128000E2
Ch9	5.640000E1	Ch10	2.820000E1				

Loop corner grid coordinates (corner , x , y , arbitrary elev)

Corner 1	4551E	3700N	0
Corner 2	4551E	4600N	0
Corner 3	4050E	4600N	0
Corner 4	4050E	3700N	0

The data presented is secondary field data, continuously normalized with respect to Channel 1.

Station : 4575E

1) 1.686550E1 2) 1.191119E-1 3) 2.216172E-1 4) 2.513110E-1  
 5) 4.576173E-1 6) 1.395528 7) 2.395743 8) 6.631299  
 9) -1.871154E1 10) -1.515975E2

Primary field strength (in Amp/m) : 6.171344E-3

Station : 4600E

1) 2.477291E1 2) 1.459389E-1 3) 3.272279E-1 4) 5.002623E-1  
 5) 1.038435 6) 2.647690 7) 4.865712 8) 1.065343E1  
 9) -2.203903E1 10) -1.576927E2

Primary field strength (in Amp/m) : 2.806896E-3

Station : 4625E

1) 2.010310E1 2) 2.059955E-1 3) 4.902442E-1 4) 8.725875E-1  
 5) 1.839508 6) 4.244436 7) 8.041100 8) 1.555197E1  
 9) -2.252394E1 10) -1.603849E2

Primary field strength (in Amp/m) : 1.727445E-3

Station : 4650E

1) 1.612550E1 2) 4.320362E-1 3) 9.339091E-1 4) 1.588277  
 5) 3.042742 6) 6.369490 7) 1.202596E1 8) 2.151087E1  
 9) -1.264296E1 10) -1.536427E2

Primary field strength (in Amp/m) : 1.201210E-3

Station : 4675E

1) -8.768154 2) 3.132921E-1 3) 9.239416E-1 4) 1.939552  
 5) 4.295733 6) 9.491745 7) 1.828567E1 8) 3.171650E1  
 9) -1.015300E1 10) -1.554579E2

Primary field strength (in Amp/m) : 8.930608E-4

Station : 4700E

1) -1.107132E1 2) 3.535983E-1 3) 1.115286 4) 2.475758  
 5) 5.388834 6) 1.205634E1 7) 2.343083E1 8) 3.852607E1  
 9) -1.228639E1 10) -1.616701E2

Primary field strength (in Amp/m) : 6.928231E-4

Station : 4725E

1) -8.602977 2) 3.877819E-1 3) 1.255221 4) 2.851334  
 5) 6.406175 6) 1.426806E1 7) 2.726049E1 8) 4.385743E1  
 9) -1.707431E1 10) -1.651526E2

Primary field strength (in Amp/m) : 5.536676E-4

018

1)-1.006140E1 2) 4.802311E-1 3) 1.531805 4) 3.432569  
5) 7.643033 6) 1.677300E1 7) 3.219341E1 8) 4.821523E1  
9)-2.143897E1 10)-1.695539E2  
Primary field strength (in Amp/m) : 4.523160E-4

Station : 4775E  
1)-1.221015E1 2) 5.123673E-1 3) 1.703369 4) 3.952116  
5) 8.836725 6) 1.889633E1 7) 3.498315E1 8) 4.789536E1  
9)-3.424727E1 10)-1.747173E2  
Primary field strength (in Amp/m) : 3.758982E-4

Station : 4800E  
1)-1.258346E1 2) 5.538569E-1 3) 1.959503 4) 4.479294  
5) 9.924710 6) 2.051735E1 7) 3.647612E1 8) 4.220260E1  
9)-5.251828E1 10)-1.781741E2  
Primary field strength (in Amp/m) : 3.167260E-4

Station : 4825E  
1)-1.011064E1 2) 7.212816E-1 3) 2.285946 4) 5.038807  
5) 1.058895E1 6) 2.105849E1 7) 3.491296E1 8) 3.101184E1  
9)-7.513883E1 10)-1.810176E2  
Primary field strength (in Amp/m) : 2.699292E-4

Station : 4850E  
1)-6.521315 2) 8.442899E-1 3) 2.665924 4) 5.619711  
5) 1.135276E1 6) 2.082861E1 7) 3.013438E1 8) 8.902049  
9)-1.059336E2 10)-1.916789E2  
Primary field strength (in Amp/m) : 2.322768E-4

Station : 4875E  
1)-3.713191 2) 7.999692E-1 3) 2.678503 4) 5.896951  
5) 1.144351E1 6) 2.008146E1 7) 2.485158E1 8)-1.071724E1  
9)-1.274144E2 10)-1.937321E2  
Primary field strength (in Amp/m) : 2.015441E-4

Station : 4900E  
1)-2.479535 2) 9.206282E-1 3) 2.973159 4) 6.322505  
5) 1.199065E1 6) 1.947646E1 7) 1.937515E1 8)-2.724339E1  
9)-1.369593E2 10)-1.921558E2  
Primary field strength (in Amp/m) : 1.761523E-4

Station : 4925E  
1)-3.186536 2) 1.036755 3) 3.318175 4) 7.012693  
5) 1.314047E1 6) 1.982228E1 7) 1.849695E1 8)-3.042445E1  
9)-1.378870E2 10)-1.874327E2  
Primary field strength (in Amp/m) : 1.549523E-4

Station : 4950E  
1)-3.808522 2) 1.136021 3) 3.670689 4) 7.774200  
5) 1.391914E1 6) 1.986239E1 7) 1.447334E1 8)-4.141169E1  
9)-1.423430E2 10)-1.914299E2  
Primary field strength (in Amp/m) : 1.370891E-4

Station : 4975E  
1)-4.113358 2) 1.262278 3) 3.957852 4) 8.372972  
5) 1.456549E1 6) 2.006928E1 7) 1.160126E1 8)-4.670518E1  
9)-1.385218E2 10)-1.927013E2  
Primary field strength (in Amp/m) : 1.219153E-4

Station : 5000E  
1)-4.292768 2) 1.862981 3) 5.114209 4) 1.006724E1  
5) 1.641241E1 6) 2.126440E1 7) 1.112211E1 8)-4.895755E1  
9)-1.422472E2 10)-1.948049E2  
Primary field strength (in Amp/m) : 1.089326E-4

019

Area : ATLAS PROSPECT  
For : CRA EXPLORATION PTY LTD  
Date : May 12, 1983  
Job : 3101  
Loop : 0003  
Line : 4200N  
Component : Hz  
Frequency : 26.230

456020

Channel delay times and widths are (usec) :

Ch1 1.443840E4 Ch2 7.219200E3 Ch3 3.609600E3 Ch4 1.804800E3  
Ch5 9.024001E2 Ch6 4.512000E2 Ch7 2.256000E2 Ch8 1.128000E2  
Ch9 5.640000E1 Ch10 2.820000E1

Loop corner grid coordinates (corner , x , y , arbitrary elev)

Corner 1 4551E 3700N 0  
Corner 2 4551E 4600N 0  
Corner 3 4050E 4600N 0  
Corner 4 4050E 3700N 0

The data presented are secondary field data, point normalized to station 4850E with respect to Channel 1.

Station : 4575E

1) 4.480982E2 2) 3.164674 3) 5.888131 4) 6.677063  
5) 1.215840E1 6) 3.707767E1 7) 6.365231E1 8) 1.761864E2  
9) -4.971456E2 10) -4.027783E3

Primary field strength (in Amp/m) : 6.171344E-3

Station : 4600E

1) 2.993625E2 2) 1.763565 3) 3.954311 4) 6.045305  
5) 1.254873E1 6) 3.199540E1 7) 5.879859E1 8) 1.287390E2  
9) -2.663256E2 10) -1.905601E3

Primary field strength (in Amp/m) : 2.806896E-3

Station : 4625E

1) 1.495070E2 2) 1.531991 3) 3.645952 4) 6.489442  
5) 1.368044E1 6) 3.156592E1 7) 5.980174E1 8) 1.156602E2  
9) -1.675108E2 10) -1.192784E3

Primary field strength (in Amp/m) : 1.727445E-3

Station : 4650E

1) 8.339238E1 2) 2.234258 3) 4.829673 4) 8.213708  
5) 1.573542E1 6) 3.293956E1 7) 6.219174E1 8) 1.112426E2  
9) -6.538254E1 10) -7.945570E2

Primary field strength (in Amp/m) : 1.201210E-3

Station : 4675E

1) -3.371190E1 2) 1.204549 3) 3.552382 4) 7.457214  
5) 1.651629E1 6) 3.649398E1 7) 7.030496E1 8) 1.219440E2  
9) -3.903639E1 10) -5.977064E2

Primary field strength (in Amp/m) : 8.930608E-4

Station : 4700E

1) -3.302297E1 2) 1.054694 3) 3.326618 4) 7.384560  
5) 1.607354E1 6) 3.596103E1 7) 6.988824E1 8) 1.149135E2  
9) -3.664719E1 10) -4.822211E2

Primary field strength (in Amp/m) : 6.928231E-4

Station : 4725E

1) -2.050652E1 2) 9.243382E-1 3) 2.992012 4) 6.796595  
5) 1.527011E1 6) 3.401012E1 7) 6.497959E1 8) 1.045410E2  
9) -4.069926E1 10) -3.936666E2

Primary field strength (in Amp/m) : 5.536676E-4

Station : 4750E

1) -1.959271E1 2) 9.351611E-1 3) 2.982906 4) 6.684292  
5) 1.488339E1 6) 3.266232E1 7) 6.269069E1 8) 9.389021E1  
9) -4.174841E1 10) -3.301748E2

Primary field strength (in Amp/m) : 4.523160E-4

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Station : 4773E

- 1) -1.975994E1    2) 8.291743E-1    3) 2.756597    4) 6.395789
- 5) 1.430065E1    6) 3.058031E1    7) 5.661393E1    8) 7.751002E1
- 9) -5.542304E1    10) -2.827485E2

Primary field strength (in Amp/m) : 3.758982E-4

Station : 4800E

- 1) -1.715844E1    2) 7.552235E-1    3) 2.671923    4) 6.107837
- 5) 1.353305E1    6) 2.797688E1    7) 4.973779E1    8) 5.754626E1
- 9) -7.161242E1    10) -2.429532E2

Primary field strength (in Amp/m) : 3.167260E-4

Station : 4825E

- 1) -1.174959E1    2) 8.382024E-1    3) 2.656501    4) 5.855605
- 5) 1.230543E1    6) 2.447210E1    7) 4.057240E1    8) 3.603890E1
- 9) -8.731894E1    10) -2.103609E2

Primary field strength (in Amp/m) : 2.699292E-4

Station : 4850E

- 1) -6.521315    2) 8.442899E-1    3) 2.665924    4) 5.619711
- 5) 1.135276E1    6) 2.082861E1    7) 3.013438E1    8) 8.902049
- 9) -1.059336E2    10) -1.916789E2

Primary field strength (in Amp/m) : 2.322768E-4

Station : 4875E

- 1) -3.221895    2) 6.941247E-1    3) 2.324109    4) 5.116722
- 5) 9.929409    6) 1.742446E1    7) 2.156346E1    8) -9.299233
- 9) -1.105561E2    10) -1.680993E2

Primary field strength (in Amp/m) : 2.015441E-4

Station : 4900E

- 1) -1.880411    2) 6.981790E-1    3) 2.254761    4) 4.794813
- 5) 9.093380    6) 1.477041E1    7) 1.469358E1    8) -2.066063E1
- 9) -1.038661E2    10) -1.457256E2

Primary field strength (in Amp/m) : 1.761523E-4

Station : 4925E

- 1) -2.125745    2) 6.916213E-1    3) 2.213561    4) 4.678182
- 5) 8.766033    6) 1.322348E1    7) 1.233935E1    8) -2.029621E1
- 9) -9.198466E1    10) -1.250367E2

Primary field strength (in Amp/m) : 1.549523E-4

Station : 4950E

- 1) -2.247779    2) 6.704766E-1    3) 2.166430    4) 4.588311
- 5) 8.215038    6) 1.172272E1    7) 8.542124    8) -2.444106E1
- 9) -8.401046E1    10) -1.129814E2

Primary field strength (in Amp/m) : 1.370891E-4

Station : 4975E

- 1) -2.158982    2) 6.625327E-1    3) 2.077361    4) 4.394728
- 5) 7.645003    6) 1.053378E1    7) 6.089162    8) -2.451419E1
- 9) -7.270605E1    10) -1.011433E2

Primary field strength (in Amp/m) : 1.219153E-4

Station : 5000E

- 1) -2.013212    2) 8.736962E-1    3) 2.398449    4) 4.721308
- 5) 7.697054    6) 9.972528    7) 5.216022    8) -2.295999E1
- 9) -6.671075E1    10) -9.135912E1

Primary field strength (in Amp/m) : 1.089326E-4

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Area : ATLAS PROSPECT  
 For : CRA EXPLORATION PTY LTD  
 Date : May 12, 1983  
 Job : 3101  
 Loop : 0003  
 Line : 4300N  
 Component : Hz  
 Frequency : 26.230

Channel delay times and widths are (usec) :  
 Ch1 1.443840E4 Ch2 7.219200E3 Ch3 3.609600E3 Ch4 1.804800E3  
 Ch5 9.024001E2 Ch6 4.512000E2 Ch7 2.256000E2 Ch8 1.128000E2  
 Ch9 5.640000E1 Ch10 2.820000E1

Loop corner grid coordinates (corner , x , y , arbitrary elev)  
 Corner 1 4551E 3700N 0  
 Corner 2 4551E 4600N 0  
 Corner 3 4050E 4600N 0  
 Corner 4 4050E 3700N 0

The data presented is secondary field data, continuously normalized with respect to Channel 1.

Station : 4575E

- 1) 6.448589E1 2) 8.900516E-2 3) 2.383883E-1 4) 2.904825E-1
- 5) 4.529254E-1 6) 1.217554 7) 1.767203 8) 4.234960
- 9) -1.627810E1 10) -1.313874E2

Primary field strength (in Amp/m) : 6.137781E-3

Station : 4600E

- 1) -7.599348 2) 2.637293E-1 3) 6.046474E-1 4) 9.650402E-1
- 5) 1.754190 6) 3.699913 7) 6.402752 8) 1.274477E1
- 9) -9.943327 10) -1.375039E2

Primary field strength (in Amp/m) : 2.776558E-3

Station : 4625E

- 1) -1.195958E1 2) 5.320860E-1 3) 1.112727 4) 1.802517
- 5) 3.154786 6) 6.178739 7) 1.082527E1 8) 1.973432E1
- 9) -6.135343 10) -1.400092E2

Primary field strength (in Amp/m) : 1.700245E-3

Station : 4650E

- 1) -1.030657E1 2) 2.389743E-1 3) 7.338288E-1 4) 1.524010
- 5) 3.316866 6) 7.306828 7) 1.379384E1 8) 2.388343E1
- 9) -1.331829E1 10) -1.530326E2

Primary field strength (in Amp/m) : 1.176997E-3

Station : 4675E

- 1) -7.209778 2) 2.771844E-1 3) 8.805202E-1 4) 1.921135
- 5) 4.193886 6) 9.243304 7) 1.741926E1 8) 2.878177E1
- 9) -1.424010E1 10) -1.563091E2

Primary field strength (in Amp/m) : 8.716426E-4

Station : 4700E

- 1) -4.144758 2) 3.141991E-1 3) 1.031524 4) 2.278216
- 5) 5.092010 6) 1.122105E1 7) 2.134704E1 8) 3.369754E1
- 9) -2.025415E1 10) -1.639159E2

Primary field strength (in Amp/m) : 6.739772E-4

Station : 4725E

- 1) -3.230756 2) 3.705840E-1 3) 1.213475 4) 2.712535
- 5) 6.205652 6) 1.357420E1 7) 2.541381E1 8) 3.988309E1
- 9) -2.440321E1 10) -1.718824E2

Primary field strength (in Amp/m) : 5.371561E-4

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Station : 4700E

- 1) -1.528382 2) 1.023316E-1 3) 9.660430E-1 4) 2.660647
- 5) 6.741419 6) 1.471072E1 7) 2.896853E1 8) 4.411381E1
- 9) -3.678333E1 10) -1.761221E2

Primary field strength (in Amp/m) : 4.378982E-4

Station : 4775E

- 1) -5.740279 2) 5.389854E-1 3) 1.741218 4) 3.931547
- 5) 8.768834 6) 1.839755E1 7) 3.383914E1 8) 4.593245E1
- 9) -4.232907E1 10) -1.791419E2

Primary field strength (in Amp/m) : 3.633397E-4

Station : 4800E

- 1) -6.316071 2) 4.408065E-1 3) 1.932603 4) 4.463417
- 5) 9.662883 6) 2.012263E1 7) 3.533527E1 8) 4.113606E1
- 9) -5.808436E1 10) -1.822496E2

Primary field strength (in Amp/m) : 3.058056E-4

Station : 4825E

- 1) -6.380218 2) 6.838952E-1 3) 2.230933 4) 5.009348
- 5) 1.072714E1 6) 2.114170E1 7) 3.561033E1 8) 3.212688E1
- 9) -7.359395E1 10) -1.848968E2

Primary field strength (in Amp/m) : 2.604426E-4

Station : 4850E

- 1) -6.483769 2) 7.327741E-1 3) 2.445164 4) 5.502918
- 5) 1.147830E1 6) 2.123414E1 7) 3.142852E1 8) 1.559095E1
- 9) -9.478846E1 10) -1.903293E2

Primary field strength (in Amp/m) : 2.240389E-4

Station : 4875E

- 1) -1.762475E1 2) 9.234622E-1 3) 3.076307 4) 6.744555
- 5) 1.273777E1 6) 2.165560E1 7) 2.497856E1 8) -1.068045E1
- 9) -1.211155E2 10) -1.873220E2

Primary field strength (in Amp/m) : 1.943896E-4

Station : 4900E

- 1) -1.817145E1 2) 1.063827 3) 3.468093 4) 7.459527
- 5) 1.396838E1 6) 2.189189E1 7) 2.178968E1 8) -2.420392E1
- 9) -1.239045E2 10) -1.931435E2

Primary field strength (in Amp/m) : 1.699355E-4

Station : 4925E

- 1) -1.753429E1 2) 1.172965 3) 3.849076 4) 8.137474
- 5) 1.452860E1 6) 2.207971E1 7) 1.773910E1 8) -3.488199E1
- 9) -1.329449E2 10) -1.842426E2

Primary field strength (in Amp/m) : 1.495452E-4

Station : 4975E

- 1) -5.658174 2) 1.371607 3) 4.248767 4) 8.813458
- 5) 1.521433E1 6) 2.091741E1 7) 1.265693E1 8) -4.683858E1
- 9) -1.460826E2 10) -1.930307E2

Primary field strength (in Amp/m) : 1.178093E-4

Station : 5000E

- 1) -4.222113 2) 1.383452 3) 4.478083 4) 9.496883
- 5) 1.589345E1 6) 2.054171E1 7) 7.495584 8) -5.751035E1
- 9) -1.482741E2 10) -1.980578E2

Primary field strength (in Amp/m) : 1.053462E-4

Area : ATLAS PROSPECT  
 For : CRA EXPLORATION PTY LTD  
 Date : May 12, 1983  
 Job : 3101  
 Loop : 0003  
 Line : 4300N  
 Component : Hz  
 Frequency : 26.230

Channel delay times and widths are (usec) :

Ch1	1.443840E4	Ch2	7.219200E3	Ch3	3.609600E3	Ch4	1.804800E3
Ch5	9.024001E2	Ch6	4.512000E2	Ch7	2.256000E2	Ch8	1.128000E2
Ch9	5.640000E1	Ch10	2.820000E1				

Loop corner grid coordinates (corner , x , y , arbitrary elev)

Corner 1	4551E	3700N	0
Corner 2	4551E	4600N	0
Corner 3	4050E	4600N	0
Corner 4	4050E	3700N	0

The data presented are secondary field data, point normalized to station 4850E with respect to Channel 1.

Station : 4575E

1)	1.766659E3	2)	2.438390	3)	6.530897	4)	7.958073
5)	1.240837E1	6)	3.335616E1	7)	4.841437E1	8)	1.160212E2
9)	-4.459557E2	10)	-3.599496E3				

Primary field strength (in Amp/m) : 6.137781E-3

Station : 4600E

1)	-9.418020E1	2)	3.268449	3)	7.493514	4)	1.195993E1
5)	2.174001E1	6)	4.585374E1	7)	7.935055E1	8)	1.579484E2
9)	-1.232296E2	10)	-1.704113E3				

Primary field strength (in Amp/m) : 2.776558E-3

Station : 4625E

1)	-9.076197E1	2)	4.038033	3)	8.444558	4)	1.367941E1
5)	2.394186E1	6)	4.689083E1	7)	8.215366E1	8)	1.497650E2
9)	-4.656149E1	10)	-1.062539E3				

Primary field strength (in Amp/m) : 1.700245E-3

Station : 4650E

1)	-5.414594E1	2)	1.255461	3)	3.855197	4)	8.006446
5)	1.742528E1	6)	3.838670E1	7)	7.246644E1	8)	1.254725E2
9)	-6.996817E1	10)	-8.039626E2				

Primary field strength (in Amp/m) : 1.176997E-3

Station : 4675E

1)	-2.805026E1	2)	1.078410	3)	3.425739	4)	7.474343
5)	1.631667E1	6)	3.596186E1	7)	6.777113E1	8)	1.119780E2
9)	-5.540235E1	10)	-6.081338E2				

Primary field strength (in Amp/m) : 8.716426E-4

Station : 4700E

1)	-1.246869E1	2)	9.452066E-1	3)	3.103137	4)	6.853566
5)	1.531832E1	6)	3.375633E1	7)	6.421838E1	8)	1.013725E2
9)	-6.093066E1	10)	-4.931090E2				

Primary field strength (in Amp/m) : 6.739772E-4

Station : 4725E

1)	-7.746068	2)	8.885129E-1	3)	2.909431	4)	6.503578
5)	1.487868E1	6)	3.254554E1	7)	6.093219E1	8)	9.562376E1
9)	-5.850918E1	10)	-4.121056E2				

Primary field strength (in Amp/m) : 5.371561E-4

Station : 4750E

1) -2.987320 2) 2.000136E-1 3) 1.888192 4) 5.200402  
5) 1.317653E1 6) 2.875303E1 7) 5.662082E1 8) 8.622322E1  
9) -7.189533E1 10) -3.442419E2

Primary field strength (in Amp/m) : 4.378982E-4

Station : 4775E

1) -9.309415 2) 8.741107E-1 3) 2.823856 4) 6.376067  
5) 1.422103E1 6) 2.983660E1 7) 5.487932E1 8) 7.449188E1  
9) -6.864802E1 10) -2.905271E2

Primary field strength (in Amp/m) : 3.633397E-4

Station : 4800E

1) -8.621228 2) 6.016860E-1 3) 2.637939 4) 6.092414  
5) 1.318951E1 6) 2.746671E1 7) 4.823146E1 8) 5.614934E1  
9) -7.928321E1 10) -2.487647E2

Primary field strength (in Amp/m) : 3.058056E-4

Station : 4825E

1) -7.416929 2) 7.950201E-1 3) 2.593433 4) 5.823308  
5) 1.247017E1 6) 2.457698E1 7) 4.139659E1 8) 3.734713E1  
9) -8.555212E1 10) -2.149404E2

Primary field strength (in Amp/m) : 2.604426E-4

Station : 4850E

1) -6.483769 2) 7.327740E-1 3) 2.445164 4) 5.502918  
5) 1.147830E1 6) 2.123414E1 7) 3.142852E1 8) 1.559095E1  
9) -9.478846E1 10) -1.903293E2

Primary field strength (in Amp/m) : 2.240389E-4

Station : 4875E

1) -1.529229E1 2) 8.012514E-1 3) 2.669188 4) 5.851981  
5) 1.105205E1 6) 1.878970E1 7) 2.167289E1 8) -9.266998  
9) -1.050870E2 10) -1.625318E2

Primary field strength (in Amp/m) : 1.943896E-4

Station : 4900E

1) -1.378321E1 2) 8.069221E-1 3) 2.630580 4) 5.658118  
5) 1.059514E1 6) 1.660520E1 7) 1.652767E1 8) -1.835889E1  
9) -9.398272E1 10) -1.465011E2

Primary field strength (in Amp/m) : 1.699355E-4

Station : 4925E

1) -1.170408E1 2) 7.829501E-1 3) 2.569245 4) 5.431735  
5) 9.697790 6) 1.473813E1 7) 1.184079E1 8) -2.328361E1  
9) -8.874030E1 10) -1.229813E2

Primary field strength (in Amp/m) : 1.495452E-4

Station : 4975E

1) -2.975311 2) 7.212498E-1 3) 2.234184 4) 4.634495  
5) 8.000349 6) 1.099928E1 7) 6.655558 8) -2.462974E1  
9) -7.681649E1 10) -1.015039E2

Primary field strength (in Amp/m) : 1.178093E-4

Station : 5000E

1) -1.985296 2) 6.505183E-1 3) 2.105657 4) 4.465566  
5) 7.473321 6) 9.658996 7) 3.524527 8) -2.704216E1  
9) -6.972053E1 10) -9.312955E1

Primary field strength (in Amp/m) : 1.053462E-4

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Area : ATLAS PROSPECT  
 For : CRA EXPLORATION PTY LTD  
 Date : May 12, 1983  
 Job : 3101  
 Loop : 0003  
 Line : 4400N  
 Component : Hz  
 Frequency : 26.230

Channel delay times and widths are (usec) :  
 Ch1 1.443840E4 Ch2 7.219200E3 Ch3 3.609600E3 Ch4 1.804800E3  
 Ch5 9.024001E2 Ch6 4.512000E2 Ch7 2.256000E2 Ch8 1.128000E2  
 Ch9 5.640000E1 Ch10 2.820000E1

Loop corner grid coordinates (corner , x , y , arbitrary elev)  
 Corner 1 4551E 3700N 0  
 Corner 2 4551E 4600N 0  
 Corner 3 4050E 4600N 0  
 Corner 4 4050E 3700N 0

The data presented is secondary field data, continuously normalized with respect to Channel 1.

Station : 4600E

- 1) 6.337750E1 2) 1.159933E-1 3) 3.694538E-1 4) 5.771356E-1
- 5) 1.003145 6) 2.265675 7) 3.606855 8) 7.460501
- 9) -1.889421E1 10) -1.416475E2

Primary field strength (in Amp/m) : 2.692683E-3

Station : 4625E

- 1) 3.724342E1 2) 3.106800E-1 3) 7.372221E-1 4) 1.205500
- 5) 2.075583 6) 4.089148 7) 7.000688 8) 1.298677E1
- 9) -1.832417E1 10) -1.495449E2

Primary field strength (in Amp/m) : 1.627614E-3

Station : 4650E

- 1) 2.360110E1 2) 4.016140E-1 3) 9.796004E-1 4) 1.681212
- 5) 3.090994 6) 6.157471 7) 1.076835E1 8) 1.861131E1
- 9) -1.747072E1 10) -1.510885E2

Primary field strength (in Amp/m) : 1.114619E-3

Station : 4675E

- 1) 1.643710E1 2) 4.217681E-1 3) 1.095956 4) 2.066353
- 5) 3.977516 6) 8.106004 7) 1.468827E1 8) 2.437694E1
- 9) -1.908232E1 10) -1.583216E2

Primary field strength (in Amp/m) : 8.183835E-4

Station : 4700E

- 1) 9.630394 2) 3.106846E-1 3) 1.047794 4) 2.246733
- 5) 4.692586 6) 1.013907E1 7) 1.860579E1 8) 2.974988E1
- 9) -2.013792E1 10) -1.609532E2

Primary field strength (in Amp/m) : 6.286745E-4

Station : 4725E

- 1) 6.207502 2) 5.758569E-1 3) 1.577290 4) 3.107686
- 5) 6.284961 6) 1.273215E1 7) 2.351566E1 8) 3.459416E1
- 9) -3.219075E1 10) -1.718569E2

Primary field strength (in Amp/m) : 4.986965E-4

Station : 4750E

- 1) 2.663004 2) 7.475850E-1 3) 1.975198 4) 3.861857
- 5) 7.711150 6) 1.554591E1 7) 2.732775E1 8) 3.578183E1
- 9) -4.859320E1 10) -1.801230E2

Primary field strength (in Amp/m) : 4.052654E-4

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Station : 4775E

- 1) 1.674604 2) 5.333633E-1 3) 1.803793 4) 3.879725
- 5) 8.326757 6) 1.692773E1 7) 2.969079E1 8) 3.145909E1
- 9) -6.564467E1 10) -1.867442E2

Primary field strength (in Amp/m) : 3.356356E-4

Station : 4800E

- 1) 2.907038E-1 2) 6.213840E-1 3) 2.061109 4) 4.493430
- 5) 9.470969 6) 1.877332E1 7) 3.075258E1 8) 2.554353E1
- 9) -8.367066E1 10) -1.879166E2

Primary field strength (in Amp/m) : 2.822537E-4

Station : 4825E

- 1) -7.528305E-1 2) 6.921904E-1 3) 2.299442 4) 4.991102
- 5) 1.029766E1 6) 1.992765E1 7) 3.099971E1 8) 1.657179E1
- 9) -9.513668E1 10) -1.904278E2

Primary field strength (in Amp/m) : 2.403818E-4

Station : 4850E

- 1) -8.521855E-1 2) 7.103720E-1 3) 2.579372 4) 5.634396
- 5) 1.150009E1 6) 2.107155E1 7) 3.090990E1 8) 1.043017E1
- 9) -1.027664E2 10) -1.938169E2

Primary field strength (in Amp/m) : 2.069118E-4

Station : 4875E

- 1) -1.955116 2) 8.228911E-1 3) 2.852892 4) 6.369039
- 5) 1.250990E1 6) 2.170457E1 7) 2.906180E1 8) -1.906111E-1
- 9) -1.127919E2 10) -1.883908E2

Primary field strength (in Amp/m) : 1.797291E-4

Station : 4900E

- 1) -1.327270 2) 1.175104 3) 3.573093 4) 7.428665
- 5) 1.369747E1 6) 2.183296E1 7) 2.509373E1 8) -1.466378E1
- 9) -1.240546E2 10) -1.897919E2

Primary field strength (in Amp/m) : 1.573514E-4

Station : 4925E

- 1) -3.044856 2) 1.133971 3) 3.530141 4) 7.684749
- 5) 1.398920E1 6) 2.199301E1 7) 2.066044E1 8) -2.754166E1
- 9) -1.287011E2 10) -1.903176E2

Primary field strength (in Amp/m) : 1.387126E-4

Station : 4950E

- 1) -3.469706 2) 1.217677 3) 3.936488 4) 8.335623
- 5) 1.493832E1 6) 2.170760E1 7) 1.600918E1 8) -3.722414E1
- 9) -1.360596E2 10) -1.892247E2

Primary field strength (in Amp/m) : 1.230286E-4

Station : 4975E

- 1) -3.990233 2) 1.461674 3) 4.643934 4) 9.563338
- 5) 1.601517E1 6) 2.185407E1 7) 1.312547E1 8) -4.579215E1
- 9) -1.424824E2 10) -1.842623E2

Primary field strength (in Amp/m) : 1.097118E-4

Station : 5000E

- 1) -4.450929 2) 1.482377 3) 4.612159 4) 9.794370
- 5) 1.649668E1 6) 2.115063E1 7) 9.806510 8) -5.381986E1
- 9) -1.461422E2 10) -1.872228E2

Primary field strength (in Amp/m) : 9.831473E-5

456027

Area : ATLAS PROSPECT  
 For : CRA EXPLORATION PTY LTD  
 Date : May 12, 1983  
 Job : 3101  
 Loop : 0003  
 Line : 4400N  
 Component : Hz  
 Frequency : 26.230

Channel delay times and widths are (usec) :

Ch1	1.443840E4	Ch2	7.219200E3	Ch3	3.609600E3	Ch4	1.804800E3
Ch5	9.024001E2	Ch6	4.512000E2	Ch7	2.256000E2	Ch8	1.128000E2
Ch9	5.640000E1	Ch10	2.820000E1				

Loop corner grid coordinates (corner , x , y , arbitrary elev)

Corner 1	4551E	3700N	0
Corner 2	4551E	4600N	0
Corner 3	4050E	4600N	0
Corner 4	4050E	3700N	0

The data presented are secondary field data, point normalized to station 4875E with respect to Channel 1.

Station : 4600E

1)	9.495152E2	2)	1.737800	3)	5.535118	4)	8.646587
5)	1.502901E1	6)	3.394411E1	7)	5.403753E1	8)	1.117725E2
9)	-2.830711E2	10)	-2.122148E3				

Primary field strength (in Amp/m) : 2.692683E-3

Station : 4625E

1)	3.372737E2	2)	2.813496	3)	6.676231	4)	1.091693E1
5)	1.879633E1	6)	3.703104E1	7)	6.339773E1	8)	1.176072E2
9)	-1.659424E2	10)	-1.354268E3				

Primary field strength (in Amp/m) : 1.627614E-3

Station : 4650E

1)	1.463660E2	2)	2.490674	3)	6.075150	4)	1.042631E1
5)	1.916930E1	6)	3.818655E1	7)	6.678166E1	8)	1.154210E2
9)	-1.083475E2	10)	-9.369997E2				

Primary field strength (in Amp/m) : 1.114619E-3

Station : 4675E

1)	7.484516E1	2)	1.920491	3)	4.990358	4)	9.408988
5)	1.811133E1	6)	3.691010E1	7)	6.688199E1	8)	1.109986E2
9)	-8.688998E1	10)	-7.209058E2				

Primary field strength (in Amp/m) : 8.183835E-4

Station : 4700E

1)	3.368616E1	2)	1.086744	3)	3.665079	4)	7.858849
5)	1.641420E1	6)	3.546546E1	7)	6.508121E1	8)	1.040621E2
9)	-7.044044E1	10)	-5.629982E2				

Primary field strength (in Amp/m) : 6.286745E-4

Station : 4725E

1)	1.722403E1	2)	1.597837	3)	4.376526	4)	8.622934
5)	1.743896E1	6)	3.532804E1	7)	6.524919E1	8)	9.598883E1
9)	-8.932009E1	10)	-4.768535E2				

Primary field strength (in Amp/m) : 4.986965E-4

Station : 4750E

1)	6.004723	2)	1.685705	3)	4.453811	4)	8.707977
5)	1.738762E1	6)	3.505396E1	7)	6.162046E1	8)	8.068329E1
9)	-1.095712E2	10)	-4.061535E2				

Primary field strength (in Amp/m) : 4.052654E-4

- 1) 3.127245 2) 9.960308E-1 3) 3.368498 4) 7.245203
- 5) 1.554982E1 6) 3.161173E1 7) 5.544614E1 8) 5.874836E1
- 9) -1.225883E2 10) -3.487360E2

Primary field strength (in Amp/m) : 3.356356E-4

Station : 4800E

- 1) 4.565327E-1 2) 9.758461E-1 3) 3.236847 4) 7.056660
- 5) 1.487358E1 6) 2.948236E1 7) 4.829507E1 8) 4.011458E1
- 9) -1.313997E2 10) -2.951117E2

Primary field strength (in Amp/m) : 2.822537E-4

Station : 4825E

- 1) -1.006886 2) 9.257821E-1 3) 3.075428 4) 6.675436
- 5) 1.377278E1 6) 2.665259E1 7) 4.146110E1 8) 2.216423E1
- 9) -1.272422E2 10) -2.546909E2

Primary field strength (in Amp/m) : 2.403818E-4

Station : 4850E

- 1) -9.810723E-1 2) 8.178105E-1 3) 2.969483 4) 6.486557
- 5) 1.323939E1 6) 2.425847E1 7) 3.558479E1 8) 1.200765E1
- 9) -1.183090E2 10) -2.231303E2

Primary field strength (in Amp/m) : 2.069118E-4

Station : 4875E

- 1) -1.955116 2) 8.228911E-1 3) 2.852892 4) 6.369039
- 5) 1.250990E1 6) 2.170457E1 7) 2.906180E1 8) -1.906111E-1
- 9) -1.127919E2 10) -1.883908E2

Primary field strength (in Amp/m) : 1.797291E-4

Station : 4900E

- 1) -1.162014 2) 1.028794 3) 3.128214 4) 6.503737
- 5) 1.199203E1 6) 1.911458E1 7) 2.196936E1 8) -1.283802E1
- 9) -1.086089E2 10) -1.661612E2

Primary field strength (in Amp/m) : 1.573514E-4

Station : 4925E

- 1) -2.349980 2) 8.751843E-1 3) 2.724518 4) 5.930990
- 5) 1.079668E1 6) 1.697392E1 7) 1.594546E1 8) -2.125630E1
- 9) -9.932988E1 10) -1.468846E2

Primary field strength (in Amp/m) : 1.387126E-4

Station : 4950E

- 1) -2.375091 2) 8.335274E-1 3) 2.694614 4) 5.705920
- 5) 1.022562E1 6) 1.485934E1 7) 1.095864E1 8) -2.548076E1
- 9) -9.313586E1 10) -1.295285E2

Primary field strength (in Amp/m) : 1.230286E-4

Station : 4975E

- 1) -2.435753 2) 8.922476E-1 3) 2.834790 4) 5.837735
- 5) 9.776119 6) 1.334035E1 7) 8.012164 8) -2.795284E1
- 9) -8.697537E1 10) -1.124790E2

Primary field strength (in Amp/m) : 1.097118E-4

Station : 5000E

- 1) -2.434730 2) 8.108841E-1 3) 2.522926 4) 5.357678
- 5) 9.023951 6) 1.156974E1 7) 5.364319 8) -2.944033E1
- 9) -7.994217E1 10) -1.024139E2

Primary field strength (in Amp/m) : 9.831473E-5