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**AUDIO-MAGNETOTELLURIC DATA COLLECTED
IN THE BEATTY, NEVADA AREA**

By

Jackie M. Williams

Denver, Colorado

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AUDIO-MAGNETOTELLURIC DATA COLLECTED IN THE AREA OF BEATTY, NEVADA

Jackie M. Williams,
U.S. Geological Survey
1997

INTRODUCTION

In the summer of 1997, electrical geophysical data was collected north of Beatty, Nevada. Audio-magnetotellurics (AMT) was the geophysical method used to collect 16 stations along two (2) profiles. The purpose of this data collection was to determine the depth to the alluvial basement, based upon the needs of the geologists requesting the data.

DATA

The data was collected using the MT-1 magnetotelluric system (equipment and computer programs) of ElectroMagnetic Instruments, Inc. This system employs simultaneous orthogonal electric field and magnetic field measurements along with a remote station of either an electrical or magnetic field. We used a local remote that was less than 100 meters from the main station setup. This remote station allows for remote-reference noise cancellation which helps prevent bias of the data from noise created by power lines, radio antenna, or other cultural frequencies. Also, a vertical magnetic coil was used to collect tipper data which allows us to better determine the electrical strike direction.

Data was collected over five (5) ranges of frequency bands. The frequency bands used were, 1-170 Hz, 79-580 Hz, 340-3550 Hz, 885-23370 Hz and 1170-5210 Hz (to collect additional data at the weakest frequencies, the dead band). AMT methods correspond with those used in magnetotelluric (MT) methods (Cagniard, 1953; Vozoff, 1991), but occur at higher frequencies than the lower frequencies of MT. AMT signals originate mainly from atmospheric disturbances and MT signals occur from ionospheric phenomena.

Please, note in the models, that there are gaps in the data at the high frequency end, this is the result of weak signals at some frequencies. Data has not been edited to produce smooth Bostick inversions, but has been edited to eliminate noisy data and repeated data at various frequencies.

Why Use AMT ?

Measurement of earth resistivities can be an effective means of mapping geologic structures because of the large variation in the electrical resistivity of rocks, and in many instances, can be used to determine whether the rocks are intrusive, volcanic, sedimentary, or metamorphic. Alteration and fault zones can also be mapped. The resistivity of geologic units is largely dependent upon their fluid content, porosity, fracturing, temperature, and conductive mineral

content (Keller and Frischknecht, 1966).

Unaltered, unfractured crystalline rocks are normally very resistive (typically 1,000 ohm-m or greater), whereas faults will show low resistivity (less than 100 ohm-m) when they are comprised of rocks fractured enough to have hosted fluid transport. Marine sedimentary rocks and clay-rich alluvium are normally very conductive (a few ohm-m to tens of ohm-m). Metamorphic rocks, including gneiss, schist (non-graphitic), and marble are moderately to highly resistive (hundreds to thousands of ohm-m). Tables of electrical resistivity for a variety of rocks, minerals and geological environments may be found in Keller, 1987; Olheoft, 1980; and Palacky, 1987.

References

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Appendix

AMT data are presented with nine (9) different plots per station. Bostick inversion for station 1 will be Fig. 1a. The other plots are the Apparent Resistivity, Impedance Phase, Rotation Angle, Impedance Skew, Electrical Multiple Coherency, Tipper Magnitude, Tipper Strike, and Polar Plots proceeding as Figs. 1b, 1c, 1d, etc., respectively.

Fig._a. Bostick inversions. Preliminary 1-dimensional inversion models computed using the apparent resistivity and impedance phase.

Fig._b. Apparent resistivity. The relationship of the time-varying magnetic fields and the electrical fields across frequencies.

Fig._c. Impedance Phase. Represents the ratio of the electric field intensity to magnetic field intensity across frequencies.

Fig._d. Rotation angle. Angle between measurement direction and direction of electrical strike, using only the horizontal sensors in the computation.

Fig._e. Impedance Skew. A measurement of the degree of the multi-dimensional resistivity structure. It should be near 0 for 1-dimensional resistivity structures but larger for 2 or 3-dimensional structures, and very large for noisy data.

Fig._f. E Multiple Coherency. A measure of how well the electrical field correlates with the magnetic field. High coherency generally means low noise in the data.

Fig._g. Tipper Magnitude. A measure of nearby vertical resistivity structure (s). Values close to 0 represents horizontal layering.

Fig._h. Tipper Strike, Angle between measurement direction and direction of electrical strike. Uses both the horizontal sensors and the vertical coil to give a less ambiguous rotation.

Fig._i. Polar Plots. Angular variations in impedance. The simpler circular plots often denote 1-dimensionality; plots that are peanut-shaped denote 2-dimensionality; plots that are four-leaf clover shaped denote 3-dimensionality and more complex denote noise at that frequency.

Figure 1. AMT station locations.

Resistivity (Bostick Inv.)

Client:
Remote:
Acquired: 17:5 Jun 08, 1997
Survey Co:

Rotation:
Filename: aba01comb.all
Channels: Ex1 Ey1 Hx1 Hy1 Hz1 Ex2
Plotted: 18:57 Jun 08, 1997
< EMI - ElectroMagnetic Instruments

Fig. 1a

APPARENT RESISTIVITY

North of Beatty NV

Client:

Remote: remote e

Acquired: 17:5 Jun 08, 1997

Survey Co:USGS

Rotation:

Filename: aba01comb.all

Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6

Plotted: 18:57 Jun 08, 1997

< EMI - ElectroMagnetic Instruments

Fig. 1b

IMPEDANCE PHASE North of Beatty NV

Client: Remote: remote e
 Rotation: Filename: aba01comb.all
 Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6
 Acquired: 17:5 Jun 08, 1997 Plotted: 18:57 Jun 08, 1997
 Survey Co:USGS < EMI - ElectroMagnetic Instruments

Fig. 1c

Client:	Rotation:
Remote: remote e	Filename: aba01comb.all
Acquired: 17:5 Jun 08, 1997	Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6
Survey Co:USGS	Plotted: 18:57 Jun 08, 1997
	< EMI - ElectroMagnetic Instruments

Fig. 1d

IMPEDANCE SKEW

North of Beatty NV

Client:

Remote: remote e

Acquired: 17:5 Jun 08, 1997

Survey Co:USGS

Rotation:

Filename: aba01comb.all

Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6

Plotted: 18:57 Jun 08, 1997

< EMI - ElectroMagnetic Instruments

Fig. 1e

E MULT Coh.

North of Beatty NV

Client:

Remote: remote e

Acquired: 17:5 Jun 08, 1997

Survey Co:USGS

Rotation:

Filename: aba01comb.all

Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6

Plotted: 18:57 Jun 08, 1997

< EMI - ElectroMagnetic Instruments

Fig. 1f

TIPPER MAGNITUDE

North of Beatty NV

Client:

Remote: remote e

Acquired: 17:5 Jun 08, 1997

Survey Co:USGS

Rotation:

Filename: aba01comb.all

Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6

Plotted: 18:58 Jun 08, 1997

< EMI - ElectroMagnetic Instruments

Fig. 1g

TIPPER STRIKE

North of Beatty NV

Client:

Remote: remote e

Acquired: 17:5 Jun 08, 1997

Survey Co:USGS

Rotation:

Filename: aba01comb.all

Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6

Plotted: 18:58 Jun 08, 1997

< EMI - ElectroMagnetic Instruments

Fig. 1h

POLAR PLOTS

North of Beatty NV

Rotation:

Filename: aba01comb.all

Client:

Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6 Ch7

Remote: remote e

Acquired: 17:5 Jun 08, 1997 Plotted: 18:58 Jun 08, 1997

Survey Co:USGS

< EMI - ElectroMagnetic Instruments >

Fig. 1i

Resistivity (Bostick Inv.)

Client: Rotation:
 Remote: Filename: aba02com.all
 Acquired: 09:2 Jul 11, 1997 Channels: Ex1 Ey1 Hx1 Hy1 Hz1 Ex2
 Survey Co: Plotted: 10:10 Jul 11, 1997
 < EMI - ElectroMagnetic Instruments

Fig. 2a

Client:

Remote: remote e

Acquired: 09:2 Jul 11, 1997

Survey Co:usgs

Rotation:

Filename: aba02com.all

Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6

Plotted: 10:10 Jul 11, 1997

< EMI - ElectroMagnetic Instruments

Fig. 2b

Client:
 Remote: remote e
 Acquired: 09:2 Jul 11, 1997
 Survey Co:usgs

Rotation:
 Filename: aba02com.all
 Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6
 Plotted: 10:11 Jul 11, 1997
 < EMI - ElectroMagnetic Instruments

Fig. 2c

Client:

Remote: remote e

Acquired: 09:2 Jul 11, 1997

Survey Co:usgs

Rotation:

Filename: aba02com.all

Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6

Plotted: 10:11 Jul 11, 1997

< EMI - ElectroMagnetic Instruments

Fig. 2d

IMPEDANCE SKEW

beatty nv

Client: Remote: remote e
Acquired: 09:2 Jul 11, 1997
Survey Cousgs
Rotation: Filename: aba02com.all
Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6
Plotted: 10:11 Jul 11, 1997
< EMI - ElectroMagnetic Instruments

Fig. 2e

E MULT Coh.

beatty nv

Client:

Remote: remote e

Acquired: 09:2 Jul 11, 1997

Survey Coasgs

Rotation:

Filename: aba02com.all

Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6

Plotted: 10:11 Jul 11, 1997

< EMI - ElectroMagnetic Instruments

Fig. 2f

Client:
 Remote: remote e
 Acquired: 09:2 Jul 11, 1997
 Survey Co:usgs

Rotation:
 Filename: aba02com.all
 Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6
 Plotted: 10:11 Jul 11, 1997
 < EMI - ElectroMagnetic Instruments

Fig. 2g

TIPPER STRIKE

beatty nv

Client:

Remote: remote e

Acquired: 09:2 Jul 11, 1997

Survey Co:usgs

Rotation:

Filename: aba02com.all

Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6

Plotted: 10:11 Jul 11, 1997

< EMI - ElectroMagnetic Instruments

Fig. 2h

POLAR PLOTS

beatty nv

Client: Rotation:
 Remote: remote e Filename: aba02com.all
 Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6 Ch7
 Acquired: 09:2 Jul 11, 1997 Plotted: 10:11 Jul 11, 1997
 Survey Co:usgs < EMI - ElectroMagnetic Instruments >

Fig. 2i

Resistivity (Bostick Inv.)

Client: Rotation:
 Remote: Filename: aba03com.all
 Acquired: 13:4 Jul 11, 1997 Channels: Ex1 Ey1 Hx1 Hy1 Hz1 Ex2
 Survey Co: Plotted: 14:01 Jul 11, 1997
 < EMI - ElectroMagnetic Instruments

Fig. 3a

APPARENT RESISTIVITY

North of Beatty, Nev

North of Beatty, Nev

Client: n

Remote: remote e

Acquired: 13:4 Jul 11, 1997

Survey Co:USGS

Rotation:

Filename: aba03com.all

Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6

Plotted: 14:01 Jul 11, 1997

< EMI - ElectroMagnetic Instruments

Fig. 3b

IMPEDANCE PHASE

North of Beatty, Nev

North of Beatty, Nev

Client: n

Remote: remote e

Acquired: 13:4 Jul 11, 1997

Survey Co:USGS

Rotation:

Filename: aba03com.all

Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6

Plotted: 14:01 Jul 11, 1997

< EMI - ElectroMagnetic Instruments

Fig. 3c

ROTATION ANGLE

North of Beatty, Nev

North of Beatty, Nev
Client: n
Remote: remote e
Acquired: 13:4 Jul 11, 1997
Survey Co:USGS

Rotation:
Filename: aba03com.all
Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6
Plotted: 14:01 Jul 11, 1997
< EMI - ElectroMagnetic Instruments

Fig. 3d

IMPEDANCE SKEW

North of Beatty, Nev

North of Beatty, Nev

Client: n

Remote: remote e

Acquired: 13:4 Jul 11, 1997

Survey Co:USGS

Rotation:

Filename: aba03com.all

Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6

Plotted: 14:01 Jul 11, 1997

< EMI - ElectroMagnetic Instruments

Fig. 3e

E MULT Coh.

North of Beatty, Nev

North of Beatty, Nev

Client: n

Remote: remote e

Acquired: 13:4 Jul 11, 1997

Survey Co:USGS

Rotation:

Filename: aba03com.all

Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6

Plotted: 14:01 Jul 11, 1997

< EMI - ElectroMagnetic Instruments

Fig. 3f

TIPPER MAGNITUDE

North of Beatty, Nev

North of Beatty, Nev

Client: n

Remote: remote e

Acquired: 13:4 Jul 11, 1997

Survey Co:USGS

Rotation:

Filename: aba03com.all

Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6

Plotted: 14:01 Jul 11, 1997

< EMI - ElectroMagnetic Instruments

Fig. 3g

TIPPER STRIKE

North of Beatty, Nev

North of Beatty, Nev

Client: n

Remote: remote e

Acquired: 13:4 Jul 11, 1997

Survey Co:USGS

Rotation:

Filename: aba03com.all

Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6

Plotted: 14:01 Jul 11, 1997

< EMI - ElectroMagnetic Instruments

Fig. 3h

POLAR PLOTS

North of Beatty, Nev

North of Beatty, Nev

Client: n

Remote: remote e

Acquired: 13:4 Jul 11, 1997

Survey Co:USGS

Rotation:

Filename: aba03com.all

Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6 Ch7

Plotted: 14:01 Jul 11, 1997

< EMI - ElectroMagnetic Instruments >

Fig. 3i

Resistivity (Bostick Inv.)

Client: Remote: 14:2 Jul 11, 1997
 Survey Co: Acquired: 14:40 Jul 11, 1997
 Rotation: EMI - ElectroMagnetic Instruments
 Filename: aba04com.all
 Channels: Ex1 Ey1 Hx1 Hy1 Hz1 Ex2 Ey2
 Plotted: 14:40 Jul 11, 1997

Fig. 4a

APPARENT RESISTIVITY

North of Beatty,NV

Client:
Remote: remote e
Acquired: 14:2 Jul 11, 1997
Survey Co:USGS

Rotation:
Filename: aba04com.all
Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6 Ch7
Plotted: 14:40 Jul 11, 1997
< EMI - ElectroMagnetic Instruments >

Fig. 4b

Client: Remote: remote e
 Remote: remote e
 Acquired: 14:2 Jul 11, 1997
 Survey Co:USGS

Rotation: File:aba04com.all
 Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6 Ch7
 Plotted: 14:40 Jul 11, 1997
 < EMI - ElectroMagnetic Instruments >

Fig. 4c

Client: Remote: remote e
 Remote: remote e
 Acquired: 14:2 Jul 11, 1997
 Survey Co:USGS
 Rotation: Rotation: File:aba04com.all
 Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6 Ch7
 Plotted: 14:40 Jul 11, 1997
 < EMI - ElectroMagnetic Instruments >

Fig. 4d

IMPEDANCE SKEW

North of Beatty, NV

Client:
 Remote: remote e
 Acquired: 14:2 Jul 11, 1997
 Survey Co:USGS

Rotation:
 Filename: aba04com.all
 Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6 Ch7
 Plotted: 14:41 Jul 11, 1997
 < EMI - ElectroMagnetic Instruments >

Fig. 4e

Client: Remote: remote e
 Acquired: 14:2 Jul 11, 1997
 Survey Co:USGS

Rotation: Filename: aba04com.all
 Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6 Ch7
 Plotted: 14:41 Jul 11, 1997
 < EMI - ElectroMagnetic Instruments >

Fig. 4f

TIPPER MAGNITUDE

North of Beatty, NV

Client:
 Remote: remote e
 Acquired: 14:2 Jul 11, 1997
 Survey Co:USGS

Rotation:
 Filename: aba04com.all
 Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6 Ch7
 Plotted: 14:41 Jul 11, 1997
 < EMI - ElectroMagnetic Instruments >

Fig. 4g

TIPPER STRIKE

North of Beatty, NV

Client: Remote: remote e
 Remoted: 14:2 Jul 11, 1997
 Survey Co:USGS
 Rotation: Rotation: aba04com.all
 Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6 Ch7
 Plotted: 14:41 Jul 11, 1997
 < EMI - ElectroMagnetic Instruments >

Fig. 4h

POLAR PLOTS

North of Beatty, NV

Client:
Remote: remote e
Acquired: 14:2 Jul 11, 1997
Survey Co:USGS

Rotation:
Filename: aba04com.all
Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6 Ch7
Plotted: 14:41 Jul 11, 1997
< EMI - ElectroMagnetic Instruments >

Fig. 4i

Client:
 Remote:
 Acquired: 15:1 Jul 11, 1997
 Survey Co:

Rotation:
 Filename: aba05com.all
 Channels: Ex1 Ey1 Hx1 Hy1 Hz1 Ex2 Ey2
 Plotted: 15:32 Jul 11, 1997
 < EMI - ElectroMagnetic Instruments >

Fig. 5a

Client:
 Remote: remote e
 Acquired: 15:1 Jul 11, 1997
 Survey Co:USGS

Rotation:
 Filename: aba05com.all
 Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6 Ch7
 Plotted: 15:32 Jul 11, 1997
 < EMI - ElectroMagnetic Instruments >

Fig. 5b

Client:
 Remote: remote e
 Acquired: 15:1 Jul 11, 1997
 Survey Co:USGS

Rotation:
 Filename: aba05com.all
 Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6 Ch7
 Plotted: 15:32 Jul 11, 1997
 < EMI - ElectroMagnetic Instruments >

Fig. 5c

Client:
 Remote: remote e
 Acquired: 15:1 Jul 11, 1997
 Survey Co:USGS

Rotation:
 Filename: aba05com.all
 Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6 Ch7
 Plotted: 15:32 Jul 11, 1997
 < EMI - ElectroMagnetic Instruments >

Fig. 5d

IMPEDANCE SKEW

north of Beatty

Client:
 Remote: remote e
 Acquired: 15:1 Jul 11, 1997
 Survey Co:USGS

Rotation:
 Filename: aba05com.all
 Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6 Ch7
 Plotted: 15:32 Jul 11, 1997
 < EMI - ElectroMagnetic Instruments >

Fig. 5e

Client: Remote: remote e
 Acquired: 15:1 Jul 11, 1997
 Survey Co:USGS

Rotation: Filename: aba05com.all
 Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6 Ch7
 Plotted: 15:32 Jul 11, 1997
 < EMI - ElectroMagnetic Instruments >

Fig. 5f

Client:
 Remote: remote e
 Acquired: 15:1 Jul 11, 1997
 Survey Co:USGS

Rotation:
 Filename: aba05com.all
 Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6 Ch7
 Plotted: 15:32 Jul 11, 1997
 < EMI - ElectroMagnetic Instruments >

Fig. 5g

TIPPER STRIKE

north of Beatty

Client:

Remote: remote e

Acquired: 15:1 Jul 11, 1997

Survey Co:USGS

Rotation:

Filename: aba05com.all

Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6 C

Plotted: 15:32 Jul 11, 1997

< EMI - ElectroMagnetic Instruments

Fig. 5h

POLAR PLOTS

north of Beatty

Client: Rotation:
 Remote: remote e Filename: aba05com.all
 Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6 Ch7
 Acquired: 15:1 Jul 11, 1997 Plotted: 15:32 Jul 11, 1997
 Survey Co:USGS < EMI - ElectroMagnetic Instruments >

Fig. 5i

Client:

Remote:

Acquired: 21:3 Jun 10, 1997

Survey Co:

Rotation:

Filename: aba06com.all

Channels: Ex1 Ey1 Hx1 Hy1 Hz1 Ex2

Plotted: 14:11 Jul 10, 1997

< EMI - ElectroMagnetic Instruments

Fig. 6a

APPARENT RESISTIVITY

north of Beatty

Client: Remote: remote e
 Rotation: Filename: aba06com.all
 Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6 Ch7
 Plotted: 21:3 Jun 10, 1997
 Survey Co:USGS
 < EMI - ElectroMagnetic Instruments >

Fig. 6b

IMPEDANCE PHASE

north of Beatty

Client:
Remote: remote e
Acquired: 21:3 Jun 10, 1997
Survey Co:USGS

Rotation:
Filename: aba06com.all
Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6 Ch7
Plotted: 14:11 Jul 10, 1997
< EMI - Electromagnetic Instruments >

Fig. 6c

Client: Remote: remote e
 Acquired: 21:3 Jun 10, 1997
 Survey Co:USGS

Rotation: File: aba06com.all
 Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6 Ch7
 Plotted: 14:12 Jul 10, 1997
 < EMI - ElectroMagnetic Instruments >

Fig. 6d

IMPEDANCE SKEW

north of Beatty

Client:
Remote: remote e
Acquired: 21:3 Jun 10, 1997
Survey Co:USGS

Rotation:
Filename: aba06com.all
Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6 Ch7
Plotted: 14:12 Jul 10, 1997
< EMI - ElectroMagnetic Instruments >

Fig. 6e

Rotation:
 Filename: aba06com.all
 Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6 Ch7
 Plotted: 14:12 Jul 10, 1997
 < EMI - ElectroMagnetic Instruments >

Client:
 Remote: remote e
 Acquired: 21:3 Jun 10, 1997
 Survey Co:USGS

Fig. 6f

Client:
 Remote: remote e
 Acquired: 21:3 Jun 10, 1997
 Survey Co:USGS

Rotation:
 Filename: aba06com.all
 Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6 Ch7
 Plotted: 14:12 Jul 10, 1997
 < EMI - ElectroMagnetic Instruments >

Fig. 6g

57

Client:
 Remote: remote e
 Acquired: 21:3 Jun 10, 1997
 Survey Co:USGS

Rotation:
 Filename: aba06com.all
 Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6 Ch7
 Plotted: 14:12 Jul 10, 1997
 < EMI - ElectroMagnetic Instruments >

Fig. 6h

POLAR PLOTS

north of Beatty

Client: Remote: remote e
 Remote: remote e
 Acquired: 21:3 Jun 10, 1997
 Survey Co:USGS

Rotation:
 Filename: aba06com.all
 Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6 Ch7
 Plotted: 14:12 Jul 10, 1997
 < EMI - ElectroMagnetic Instruments >

Fig. 6i

Client:

Remote:

Acquired: 21:2 Jun 09, 1997

Survey Co:

Rotation:

Filename: aba07comb.all

Channels: Ex1 Ey1 Hx1 Hy1 Hz1 Ex2

Plotted: 20:02 Jun 10, 1997

< EMI - ElectroMagnetic Instruments

Fig. 7a

APPARENT RESISTIVITY

North of Beatty

Client: Remote: remote e
 Acquired: 21:2 Jun 09, 1997
 Survey Co:USGS

Rotation: Filename: aba07comb.all
 Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6 Ch7
 Plotted: 20:02 Jun 10, 1997
 < EMI - ElectroMagnetic Instruments >

Fig. 7b

Client: Remote: remote e
 Rotation: Filename: aba07comb.all
 Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6 Ch7
 Plotted: 20:05 Jun 10, 1997
 Survey Co:USGS < EMI - ElectroMagnetic Instruments >

Fig. 7c

Client: Remote: remote e
 Remote: remote e
 Acquired: 21:2 Jun 09, 1997
 Survey Co:USGS

Rotation:
 Filename: aba07comb.all
 Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6 Ch7
 Plotted: 20:05 Jun 10, 1997
 < EMI - ElectroMagnetic Instruments >

Fig. 7d

IMPEDANCE SKEW

North of Beatty

Client:
 Remote: remote e
 Acquired: 21:2 Jun 09, 1997
 Survey Co:USGS

Rotation:
 Filename: aba07comb.all
 Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6 Ch7
 Plotted: 20:05 Jun 10, 1997
 < EMI - ElectroMagnetic Instruments >

Fig. 7e

Client: Remote: remote e
 Acquired: 21:2 Jun 09, 1997
 Survey Co:USGS

Rotation: Filename: aba07comb.all
 Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6 Ch7
 Plotted: 20:05 Jun 10, 1997
 < EMI - ElectroMagnetic Instruments >

Fig. 7f

TIPPER MAGNITUDE

North of Beatty

Client:
 Remote: remote e
 Acquired: 21:2 Jun 09, 1997
 Survey Co:USGS

Rotation:
 Filename: aba07comb.all
 Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6 Ch7
 Plotted: 20:05 Jun 10, 1997
 < EMI - ElectroMagnetic Instruments >

Fig. 7g

TIPPER STRIKE

North of Beatty

Client: Remote: remote e
 Acquired: 21:2 Jun 09, 1997
 Survey Co:USGS

Rotation: Filename: aba07comb.all
 Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6 Ch7
 Plotted: 20:05 Jun 10, 1997
 < EMI - ElectroMagnetic Instruments >

Fig. 7h

POLAR PLOTS

North of Beatty

Client: Remote: remote e
 Remoted: 21:2 Jun 09, 1997
 Survey Co:USGS

Rotation:
 Filename: aba07comb.all
 Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6 Ch7
 Plotted: 20:05 Jun 10, 1997
 < EMI - ElectroMagnetic Instruments >

Fig. 7i

Resistivity (Bostick Inv.)

Client:
Remote:
Acquired: 16:0 Jul 11, 1997
Survey Co:

Rotation:
Filename: aba08com.all
Channels: Ex1 Ey1 Hx1 Hy1 Hz1 Ex2 Ey2
Plotted: 16:19 Jul 11, 1997
< EMI - ElectroMagnetic Instruments >

Fig. 8a

APPARENT RESISTIVITY

north of Beatty

Client: Remote: remote e
 Acquired: 16:0 Jul 11, 1997
 Survey Co:USGS

Rotation: Filename: aba08com.all
 Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6 Ch7
 Plotted: 16:19 Jul 11, 1997
 < EMI - ElectroMagnetic Instruments >

Fig. 8b

07

Client:
Remote: remote e
Acquired: 16:0 Jul 11, 1997
Survey Co:USGS

Rotation:
Filename: aba08com.all
Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6 Ch7
Plotted: 16:19 Jul 11, 1997
< EMI - ElectroMagnetic Instruments >

Fig. 8c

Client: Remote: remote e
 Remote: remote e
 Acquired: 16:0 Jul 11, 1997
 Survey Co:USGS

Rotation:
 Filename: aba08com.all
 Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6 Ch7
 Plotted: 16:19 Jul 11, 1997
 < EMI - ElectroMagnetic Instruments >

Fig. 8d

IMPEDANCE SKEW

north of Beatty

Client:
 Remote: remote e
 Acquired: 16:0 Jul 11, 1997
 Survey Co:USGS

Rotation:
 Filename: aba08com.all
 Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6 Ch7
 Plotted: 16:19 Jul 11, 1997
 < EMI - ElectroMagnetic Instruments >

Fig. 8c

Client: Remote: remote e
 Acquired: 16:0 Jul 11, 1997
 Survey Co:USGS

Rotation: Filename: aba08com.all
 Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6 Ch7
 Plotted: 16:19 Jul 11, 1997
 < EMI - ElectroMagnetic Instruments >

Fig. 8f

TIPPER MAGNITUDE

north of Beatty

Rotation:
 Filename: aba08com.all
 Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6 Ch7
 Plotted: 16:20 Jul 11, 1997
 < EMI - ElectroMagnetic Instruments >

Client:
 Remote: remote e
 Acquired: 16:0 Jul 11, 1997
 Survey Co:USGS

Fig. 8g

75

Client:
 Remote: remote e
 Acquired: 16:0 Jul 11, 1997
 Survey Co:USGS

Rotation:
 Filename: aba08com.all
 Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6 Ch7
 Plotted: 16:20 Jul 11, 1997
 < EMI - ElectroMagnetic Instruments >

Fig. 8h

POLAR PLOTS

north of Beatty

Client: Remote: remote e
 Remote: remote e
 Acquired: 16:0 Jul 11, 1997
 Survey Co:USGS
 Rotation: File name: aba08com.all
 Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6 Ch7
 Plotted: 16:20 Jul 11, 1997
 < EMI - ElectroMagnetic Instruments >

Fig. 8i

Resistivity (Bostick Inv.)

Client: Rotation:
 Remote: Filename: aba09comb.all
 Acquired: 20:3 Jun 10, 1997 Channels: Ex1 Ey1 Hx1 Hy1 Hz1 Ex2 Ey2
 Survey Co: Plotted: 20:49 Jun 10, 1997
 < EMI - ElectroMagnetic Instruments >

Fig. 9a

APPARENT RESISTIVITY

north of Beatty

Client: Remote: remote e
 Remote: remote e
 Acquired: 20:3 Jun 10, 1997
 Survey Co:USGS
 Rotation: Filename: aba09comb.all
 Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6 Ch7
 Plotted: 20:49 Jun 10, 1997
 < EMI - ElectroMagnetic Instruments >

Fig. 9b

Client: Remote: remote e
 Acquired: 20:3 Jun 10, 1997
 Survey Co:USGS

Rotation:
 Filename: aba09comb.all
 Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6 Ch7
 Plotted: 20:49 Jun 10, 1997
 < EMI - ElectroMagnetic Instruments >

Fig. 9c

08

Client:

Remote: remote e

Acquired: 20:3 Jun 10, 1997

Survey Co:USGS

Rotation:

Filename: aba09comb.all

Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6

Plotted: 20:49 Jun 10, 1997

< EMI - ElectroMagnetic Instruments

Fig. 9d

IMPEDANCE SKEW north of Beatty

Client: Remote: remote e
 Acquired: 20:3 Jun 10, 1997
 Survey Co:USGS
 Rotation: Rotation:
 Filename: aba09comb.all
 Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6
 Plotted: 20:49 Jun 10, 1997
 < EMI - ElectroMagnetic Instruments

Fig. 9e

Client: Rotation:
 Remote: remote e Filename: aba09comb.all
 Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6
 Acquired: 20:3 Jun 10, 1997 Plotted: 20:49 Jun 10, 1997
 Survey Co:USGS < EMI - ElectroMagnetic Instruments

Fig. 9f

TIPPER MAGNITUDE

north of Beatty

Client:

Remote: remote e

Acquired: 20:3 Jun 10, 1997

Survey Co:USGS

Rotation:

Filename: aba09comb.all

Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6

Plotted: 20:49 Jun 10, 1997

< EMI - ElectroMagnetic Instruments

Fig. 9g

TIPPER STRIKE

north of Beatty

Client:

Remote: remote e

Acquired: 20:3 Jun 10, 1997

Survey Co:USGS

Rotation:

Filename: aba09comb.all

Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6

Plotted: 20:50 Jun 10, 1997

< EMI - ElectroMagnetic Instruments

Fig. 9h

POLAR PLOTS

north of Beatty

Rotation:

Client: Remote: remote e
 Filename: aba09comb.all
 Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6 Ch7
 Acquired: 20:3 Jun 10, 1997 Plotted: 20:50 Jun 10, 1997
 Survey Co:USGS < EMI - ElectroMagnetic Instruments >

Fig. 9i

Resistivity (Bostick Inv.)

Client: Rotation:
Remote: Filename: bba10com.all
Acquired: 14:1 Sep 05, 1997 Channels: Ex1 Ey1 Hx1 Hy1 Hz1 Ex2
Survey Co: Plotted: 10:44 Sep 17, 1997
< EMI - ElectroMagnetic Instruments

Fig. 10a

APPARENT RESISTIVITY

north of Beatty

Client:

Remote: remote e

Acquired: 14:1 Sep 05, 1997

Survey Co:USGS

Rotation:

Filename: bba10com.all

Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6

Plotted: 10:44 Sep 17, 1997

< EMI - ElectroMagnetic Instruments

Fig. 10b

IMPEDANCE PHASE

north of Beatty

Client:
 Remote: remote e
 Acquired: 14:1 Sep 05, 1997
 Survey Co:USGS

Rotation:
 Filename: bba10com.all
 Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6
 Plotted: 10:45 Sep 17, 1997
 < EMI - ElectroMagnetic Instruments

Fig. 10c

Client:

Remote: remote e

Acquired: 14:1 Sep 05, 1997

Survey Co:USGS

Rotation:

Filename: bba10com.all

Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6

Plotted: 10:45 Sep 17, 1997

< EMI - ElectroMagnetic Instruments

Fig. 10d

06

IMPEDANCE SKEW

north of Beatty

Client: Remote: remote e
 Acquired: 14:1 Sep 05, 1997
 Survey Co:USGS

Rotation:
 Filename: bba10com.all
 Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6
 Plotted: 10:45 Sep 17, 1997
 < EMI - ElectroMagnetic Instruments

Fig. 10e

E MULT Coh.

north of Beatty

Client:

Remote: remote e

Acquired: 14:1 Sep 05, 1997

Survey Co:USGS

Rotation:

Filename: bba10com.all

Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6

Plotted: 10:45 Sep 17, 1997

< EMI - ElectroMagnetic Instruments

Fig. 10f

TIPPER MAGNITUDE

north of Beatty

Client:

Remote: remote e

Acquired: 14:1 Sep 05, 1997

Survey Co:USGS

Rotation:

Filename: bba10com.all

Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6

Plotted: 10:45 Sep 17, 1997

< EMI - ElectroMagnetic Instruments

Fig. 10g

TIPPER STRIKE

north of Beatty

Client:

Remote: remote e

Acquired: 14:1 Sep 05, 1997

Survey Co:USGS

Rotation:

Filename: bba10com.all

Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6

Plotted: 10:46 Sep 17, 1997

< EMI - ElectroMagnetic Instruments

Fig. 10h

POLAR PLOTS

north of Beatty

Client: Remote: remote e
 Remote: remote e
 Acquired: 14:1 Sep 05, 1997
 Survey Co:USGS

Rotation:
 Filename: bba10com.all
 Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6 Ch7
 Plotted: 10:46 Sep 17, 1997
 < EMI - ElectroMagnetic Instruments >

Fig. 10i

Resistivity (Bostick Inv.)

Client:

Remote:

Acquired: 13:3 Sep 17, 1997

Survey Co:

Rotation:

Filename: bba11com.all

Channels: Ex1 Ey1 Hx1 Hy1 Hz1 Ex2

Plotted: 13:57 Sep 17, 1997

< EMI - ElectroMagnetic Instruments

Fig. 11a

APPARENT RESISTIVITY

north of Beatty

Client:

Remote: remote e

Acquired: 13:3 Sep 17, 1997

Survey Co:USGS

Rotation:

Filename: bba11com.all

Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6

Plotted: 13:57 Sep 17, 1997

< EMI - ElectroMagnetic Instruments

Fig. 11b

L6

Client:

Remote: remote e

Acquired: 13:3 Sep 17, 1997

Survey Co:USGS

Rotation:

Filename: bba11com.all

Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6

Plotted: 13:57 Sep 17, 1997

< EMI - ElectroMagnetic Instruments

Fig. 11c

Client: Rotation:
 Remote: remote e Filename: bba11com.all
 Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6
 Acquired: 13:3 Sep 17, 1997 Plotted: 13:57 Sep 17, 1997
 Survey Co:USGS < EMI - ElectroMagnetic Instruments

Fig. 11d

IMPEDANCE SKEW

north of Beatty

Client:

Remote: remote e

Acquired: 13:3 Sep 17, 1997

Survey Co:USGS

Rotation:

Filename: bba11com.all

Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6

Plotted: 13:57 Sep 17, 1997

< EMI - ElectroMagnetic Instruments

Fig. 11e

north of Beatty

E MULT Coh.

Client: Remote: remote e
Acquired: 13:3 Sep 17, 1997
Survey Co:USGS

Rotation: Filename: bba11com.all
Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6
Plotted: 13:57 Sep 17, 1997
< EMI - ElectroMagnetic Instruments

Fig. 11f

TIPPER MAGNITUDE

north of Beatty

Client:

Remote: remote e

Acquired: 13:3 Sep 17, 1997

Survey Co:USGS

Rotation:

Filename: bba11com.all

Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6

Plotted: 13:58 Sep 17, 1997

< EMI - ElectroMagnetic Instruments

Fig. 11g

TIPPER STRIKE

north of Beatty

Client: Remote: remote e
 Acquired: 13:3 Sep 17, 1997
 Survey Co:USGS

Rotation: Filename: bballcom.all
 Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6
 Plotted: 13:58 Sep 17, 1997
 < EMI - ElectroMagnetic Instruments

Fig. 11h

POLAR PLOTS

north of Beatty

Rotation:

Client: Remote: remote e
 Filename: bballcom.all
 Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6 Ch7
 Acquired: 13:3 Sep 17, 1997 Plotted: 13:58 Sep 17, 1997
 Survey Co:USGS < EMI - ElectroMagnetic Instruments >

Fig. 11i

Resistivity (Bostick Inv.)

Client: Remote: 20:4 Jun 12, 1997
 Survey Co: Acquired: 12:46 Jul 11, 1997
 Rotation: File name: bba12com.all
 Channels: Ex1 Ey1 Hx1 Hy1 Hz1 Ex2 Ey2
 Plotted: 12:46 Jul 11, 1997
 < EMI - ElectroMagnetic Instruments >

Fig.12a

Client: Remote: remote e
 Rotation: Filename: bbal2com.all
 Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6 Ch7
 Plotted: 20:4 Jun 12, 1997
 Survey Co:USGS
 < EMI - ElectroMagnetic Instruments >

Fig. 12b

Client: Remote: remote e
 Remote: remote e
 Acquired: 20:4 Jun 12, 1997
 Survey Co:USGS

Rotation: bbal2com.all
 Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6 Ch7
 Plotted: 12:46 Jul 11, 1997
 < EMI - ElectroMagnetic Instruments >

Fig. 12c

Client: Remote: remote e
 Acquired: 20:4 Jun 12, 1997
 Survey Co:USGS

Rotation: Filename: bbal2com.all
 Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6 Ch7
 Plotted: 12:47 Jul 11, 1997
 < EMI - ElectroMagnetic Instruments >

Fig. 12d

IMPEDANCE SKEW

north of Beatty

Client:
 Remote: remote e
 Acquired: 20:4 Jun 12, 1997
 Survey Co:USGS

Rotation:
 Filename: bba12com.all
 Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6 Ch7
 Plotted: 12:47 Jul 11, 1997
 < EMI - ElectroMagnetic Instruments >

Fig. 12e

E MULT Coh.

north of Beatty

Client:
Remote: remote e
Acquired: 20:4 Jun 12, 1997
Survey Co:USGS

Rotation:
Filename: bba12com.all
Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6 Ch7
Plotted: 12:47 Jul 11, 1997
< EMI - ElectroMagnetic Instruments >

Fig. 12f

110

Client:
 Remote: remote e
 Acquired: 20:4 Jun 12, 1997
 Survey Co:USGS

Rotation:
 Filename: bba12com.all
 Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6 Ch7
 Plotted: 12:47 Jul 11, 1997
 < EMI - ElectroMagnetic Instruments >

Fig. 12g

TIPPER STRIKE

north of Beatty

Client:
 Remote: remote e
 Acquired: 20:4 Jun 12, 1997
 Survey Co:USGS

Rotation:
 Filename: bba12com.all
 Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6 Ch7
 Plotted: 12:47 Jul 11, 1997
 < EMI - ElectroMagnetic Instruments >

Fig. 12h

POLAR PLOTS

north of Beatty

Client:
 Remote: remote e
 Acquired: 20:4 Jun 12, 1997
 Survey Co:USGS

Rotation:
 Filename: bba12com.all
 Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6 Ch7
 Plotted: 12:47 Jul 11, 1997
 < EMI - ElectroMagnetic Instruments >

Fig. 12i

Client:

Remote:

Acquired: 20:0 Jun 12, 1997

Survey Co:

Rotation:

Filename: bba13comb.all

Channels: Ex1 Ey1 Hx1 Hy1 Hz1 Ex2

Plotted: 20:28 Jun 12, 1997

< EMI - ElectroMagnetic Instruments

Fig. 13a

Client:	Rotation:
Remote: remote e	Filename: bba13comb.all
Acquired: 20:0 Jun 12, 1997	Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6
Survey Co:USGS	Plotted: 20:28 Jun 12, 1997
	< EMI - ElectroMagnetic Instruments

Fig. 13b

IMPEDANCE PHASE

north of Beatty

Client:

Remote: remote e

Acquired: 20:0 Jun 12, 1997

Survey Co:USGS

Rotation:

Filename: bba13comb.all

Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6

Plotted: 20:28 Jun 12, 1997

< EMI - ElectroMagnetic Instruments

Fig. 13c

ROTATION ANGLE

north of Beatty

Client: Remote: remote e
 Remote: remote e
 Acquired: 20:0 Jun 12, 1997
 Survey Co:USGS
 Rotation: Filename: bba13comb.all
 Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6
 Plotted: 20:28 Jun 12, 1997
 < EMI - ElectroMagnetic Instruments

Fig. 13d

IMPEDANCE SKEW

north of Beatty

Client:

Remote: remote e

Acquired: 20:0 Jun 12, 1997

Survey Co:USGS

Rotation:

Filename: bba13comb.all

Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6

Plotted: 20:28 Jun 12, 1997

< EMI - ElectroMagnetic Instruments

Fig. 13e

Client: Rotation:
Remote: remote e Filename: bba13comb.all
Acquired: 20:0 Jun 12, 1997 Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6
Survey Co:USGS Plotted: 20:28 Jun 12, 1997
 < EMI - ElectroMagnetic Instruments

Fig. 13f

TIPPER MAGNITUDE

north of Beatty

Client:

Remote: remote e

Acquired: 20:0 Jun 12, 1997

Survey Co:USGS

Rotation:

Filename: bba13comb.all

Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6

Plotted: 20:29 Jun 12, 1997

< EMI - ElectroMagnetic Instruments

Fig. 13g

TIPPER STRIKE

north of Beatty

Client:

Remote: remote e

Acquired: 20:0 Jun 12, 1997

Survey Co:USGS

Rotation:

Filename: bba13comb.all

Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6

Plotted: 20:29 Jun 12, 1997

< EMI - ElectroMagnetic Instruments

Fig. 13h

POLAR PLOTS

north of Beatty

Client:

Remote: remote e

Acquired: 20:0 Jun 12, 1997

Survey Co:USGS

Rotation:

Filename: bba13comb.all

Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6 Ch7

Plotted: 20:29 Jun 12, 1997

< EMI - ElectroMagnetic Instruments >

Fig. 13i

Resistivity (Bostick Inv.)

Client: Rotation:
 Remote: Filename: bba14com.all
 Acquired: 21:0 Jun 13, 1997 Channels: Ex1 Ey1 Hx1 Hy1 Hz1 Ex2 Ey2
 Survey Co: Plotted: 11:31 Jul 11, 1997
 < EMI - ElectroMagnetic Instruments >

Fig. 14a

APPARENT RESISTIVITY

north of Beatty

Client:
 Remote: remote e
 Acquired: 21:0 Jun 13, 1997
 Survey Co: US Geological Survey

Rotation:
 Filename: bba14com.all
 Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6 Ch7
 Plotted: 11:31 Jul 11, 1997
 < EMI - ElectroMagnetic Instruments >

Fig. 14b

Client: Remote: remote e
 Acquired: 21:0 Jun 13, 1997
 Survey Co:US Geological Survey

Rotation: bbal4com.all
 Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6 Ch7
 Plotted: 11:32 Jul 11, 1997
 < EMI - ElectroMagnetic Instruments >

Fig. 14c

Client: Remote: remote e
 Acquired: 21:0 Jun 13, 1997
 Survey Co: US Geological Survey
 Rotation: Filename: bba14com.all
 Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6 Ch7
 Plotted: 11:32 Jul 11, 1997
 < EMI - ElectroMagnetic Instruments >

Fig. 14d

Client: Remote: remote e
 Acquired: 21:0 Jun 13, 1997
 Survey Co:US Geological Survey

Rotation: bba14com.all
 Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6 Ch7
 Plotted: 11:32 Jul 11, 1997
 < EMI - ElectroMagnetic Instruments >

Fig. 14e

Client: Remote: remote e
 Acquired: 21:0 Jun 13, 1997
 Survey Co: US Geological Survey

Rotation: Filename: bba14com.all
 Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6 Ch7
 Plotted: 11:32 Jul 11, 1997
 < EMI - ElectroMagnetic Instruments >

Fig. 14f

TIPPER MAGNITUDE

north of Beatty

Client:
 Remote: remote e
 Acquired: 21:0 Jun 13, 1997
 Survey Co:US Geological Survey

Rotation:
 Filename: bba14com.all
 Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6 Ch7
 Plotted: 11:32 Jul 11, 1997
 < EMI - ElectroMagnetic Instruments >

Fig. 14g

Client: Rotation:
 Remote: remote e Filename: bba14com.all
 Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6 Ch7
 Acquired: 21:0 Jun 13, 1997 Plotted: 11:32 Jul 11, 1997
 Survey Co: US Geological Survey < EMI - ElectroMagnetic Instruments >

Fig. 14h

POLAR PLOTS

north of Beatty

Client: Remote: remote e
 Acquired: 21:0 Jun 13, 1997
 Survey Co:US Geological Survey
 Rotation: File name: bba14com.all
 Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6 Ch7
 Plotted: 11:32 Jul 11, 1997
 < EMI - ElectroMagnetic Instruments >

Fig. 14i

Resistivity (Bostick Inv.)

Client: Remote: Acquired: 20:2 Jun 13, 1997 Survey Co:
 Rotation: Filename: bba15comb.all Channels: Ex1 Ey1 Hx1 Hy1 Hz1 Ex2 Ey
 Plotted: 20:52 Jun 13, 1997 < EMI - ElectroMagnetic Instruments

Fig. 15a

APPARENT RESISTIVITY

North of Beatty

Client: Remote: Remote E
 Remote: Remote E
 Acquired: 20:2 Jun 13, 1997
 Survey Co:USGS
 Rotation: bba15comb.all
 Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6 Ch7
 Plotted: 20:52 Jun 13, 1997
 < EMI - ElectroMagnetic Instruments >

Fig. 15b

IMPEDANCE PHASE

North of Beatty

Client:
 Remote: Remote E
 Acquired: 20:2 Jun 13, 1997
 Survey Co:USGS

Rotation:
 Filename: bba15comb.all
 Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6 Ch7
 Plotted: 20:52 Jun 13, 1997
 < EMI - ElectroMagnetic Instruments >

Fig. 15c

Client:
 Remote: Remote E
 Acquired: 20:2 Jun 13, 1997
 Survey Co:USGS

Rotation:
 Filename: bba15comb.all
 Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6 Ch7
 Plotted: 20:52 Jun 13, 1997
 < EMI - ElectroMagnetic Instruments >

Fig. 15d

Client: Remote: Remote E
 Remote: Remote E
 Acquired: 20:2 Jun 13, 1997
 Survey Co:USGS

Rotation: bbal5comb.all
 Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6 Ch7
 Plotted: 20:52 Jun 13, 1997
 < EMI - ElectroMagnetic Instruments >

Fig. 15e

Client: Remote: Remote E
 Remote: Remote E
 Acquired: 20:2 Jun 13, 1997
 Survey Co:USGS

Rotation: Filename: bba15comb.all
 Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6 Ch7
 Plotted: 20:52 Jun 13, 1997
 < EMI - ElectroMagnetic Instruments >

Fig. 15f

TIPPER MAGNITUDE

North of Beatty

Client: Remote: Remote E
 Acquired: 20:2 Jun 13, 1997
 Survey Co:USGS

Rotation:
 Filename: bba15comb.all
 Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6 Ch7
 Plotted: 20:53 Jun 13, 1997
 < EMI - ElectroMagnetic Instruments >

Fig. 15g

TIPPER STRIKE

North of Beatty

Client: Remote: Remote E
 Acquired: 20:2 Jun 13, 1997
 Survey Co:USGS

Rotation: bba15comb.all
 Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6 C
 Plotted: 20:53 Jun 13, 1997
 < EMI - ElectroMagnetic Instruments

Fig. 15h

POLAR PLOTS

North of Beatty

Client:
 Remote: Remote E
 Acquired: 20:2 Jun 13, 1997
 Survey Co:USGS

Rotation:
 Filename: bba15comb.all
 Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6 Ch7
 Plotted: 20:53 Jun 13, 1997
 < EMI - ElectroMagnetic Instruments >

Fig. 15i

Resistivity (Bostick Inv.)

Client: Rotation: bba16com.all
 Remote: Channels: Ex1 Ey1 Hx1 Hy1 Hz1 Ex2 Ey2
 Acquired: 17:4 Jun 14, 1997
 Survey Co: Plotted: 11:14 Jul 11, 1997
 < EMI - ElectroMagnetic Instruments >

Fig. 16a

APPARENT RESISTIVITY

North of Beatty

Client: Remote: Remote E
 Acquired: 17:4 Jun 14, 1997
 Survey Co:USGS

Rotation:
 Filename: bba16com.all
 Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6 Ch7
 Plotted: 11:14 Jul 11, 1997
 < EMI - ElectroMagnetic Instruments >

Fig. 16b

IMPEDANCE PHASE

North of Beatty

Client: Remote: Remote E
 Acquired: 17:4 Jun 14, 1997
 Survey Co:USGS

Rotation: Filename: bba16com.all
 Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6 Ch7
 Plotted: 11:15 Jul 11, 1997
 < EMI - ElectroMagnetic Instruments >

Fig. 16c

Client: Remote: Remote E
 Remoted: 17:4 Jun 14, 1997
 Survey Co:USGS

Rotation: bba16com.all
 Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6 Ch7
 Plotted: 11:15 Jul 11, 1997
 < EMI - ElectroMagnetic Instruments >

Fig. 16d

IMPEDANCE SKEW

North of Beatty

Client:
Remote: Remote E
Acquired: 17:4 Jun 14, 1997
Survey Co:USGS

Rotation:
Filename: bba16com.all
Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6 Ch7
Plotted: 11:15 Jul 11, 1997
< EMI - ElectroMagnetic Instruments >

Fig .16e

E MULT Coh.

North of Beatty

Client:
Remote: Remote E
Acquired: 17:4 Jun 14, 1997
Survey Co:USGS

Rotation:
Filename: bba16com.all
Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6 Ch7
Plotted: 11:15 Jul 11, 1997
< EMI - ElectroMagnetic Instruments >

Fig. 16f

TIPPER MAGNITUDE

North of Beatty

Client:
Remote: Remote E
Acquired: 17:4 Jun 14, 1997
Survey Co:USGS

Rotation:
Filename: bba16com.all
Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6 Ch7
Plotted: 11:15 Jul 11, 1997
< EMI - ElectroMagnetic Instruments >

Fig. 16g

TIPPER STRIKE

North of Beatty

Client: Remote E
 Remote: Remote E
 Acquired: 17:4 Jun 14, 1997
 Survey Co:USGS

Rotation:
 Filename: bba16com.all
 Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6 C
 Plotted: 11:15 Jul 11, 1997
 < EMI - ElectroMagnetic Instruments

Fig. 16h

POLAR PLOTS North of Beatty

Client: Remote E
 Remote: Remote E
 Acquired: 17:4 Jun 14, 1997
 Survey Co:USGS
 Rotation: bba16com.all
 Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6 Ch7
 Plotted: 11:15 Jul 11, 1997
 EMI - ElectroMagnetic Instruments >

Fig. 16i