**MAGNETOTELLURIC DATA ACROSS THE
BATTLE MOUNTAIN-EUREKA AND
CARLIN TRENDS, NORTH OF CORTEZ, NEVADA**

by

Jackie M. Williams, Brian D. Rodriguez,
and
Douglas P. Klein¹

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**U.S. DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY**

¹ Denver, Colorado

TABLE OF CONTENTS

INTRODUCTION	3
MAGNETOTELLURIC METHOD	3
MAGNETOTELLURIC SURVEY	5
MAGNETOTELLURIC DATA	6
REFERENCES CITED	9
APPENDIX - MAGNETOTELLURIC DATA PLOTS	12

INTRODUCTION

Genesis of gold deposits along the Battle Mountain-Eureka and Carlin trends in northern Nevada is not fully understood and subject to conflicting models (e.g. Arehart and others, 1993; Ilchik and Barton, 1997; Radtke, 1985; Shawe, 1991; Sillitoe and Bonham, 1990; Tosdal, 1998). A general consensus among these models is that regional structures somehow controlled the spatial distribution of the deposits. To investigate crustal structures that may be related to the genesis of gold deposits along these trends, a regional southwest-northeast profile of magnetotelluric (MT) soundings was acquired in 1994, 1996, 1997, and 2000 (line MT3-MT3', [Figure 1](#)). Resistivity modeling of the MT data can be used to infer the deep resistivity structure of the crust to help investigate possible tectonic controls on the emplacement of mineral deposits along these linear trends.

MAGNETOTELLURIC METHOD

The magnetotelluric (MT) method is a passive surface geophysical technique, which uses the earth's natural electromagnetic fields to investigate the electrical resistivity structure of the subsurface. The resistivity of geologic units is largely dependent upon their fluid content, porosity, fracturing, temperature, and conductive mineral content (Keller, 1989). Saline fluids within the pore spaces and fracture openings can reduce resistivities in a resistive rock matrix. Also, resistivity can be lowered by the presence of conductive clay minerals, carbon, and metallic mineralization. It is common for altered volcanic rocks to contain authigenic minerals that have resistivities ten times lower than those of the surrounding rocks (Nelson and Anderson, 1992). Increased temperatures cause higher ionic mobility and mineral activation energy, reducing rock resistivities significantly. Unaltered, unfractured igneous 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 and consequent mineralogical alteration (Eberhart-Phillips et al., 1995). Carbonate rocks are moderately to highly resistive (hundreds to thousands of ohm-m) dependent upon their fluid content, porosity, fracturing, and impurities. Marine shales, mudstones, and clay-rich alluvium are normally very conductive (a few ohm-m to tens of ohm-m). Unaltered, metamorphic rocks (non-graphitic) 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) and Palacky (1987).

The MT method allows us to probe the crust from depths of tens of meters to depths of tens of kilometers (Vozoff, 1991). Natural variations of the Earth's magnetic and electric field are measured and recorded at each MT station. Frequencies of 10,000 Hz to 1 Hz from worldwide lightning activity and 1 Hz to 0.0001 Hz from geomagnetic micro-pulsations are the main frequency bands used by the MT method. The natural electric and magnetic fields propagate vertically in the earth because the very large resistivity contrast between the air and the earth causes a vertical refraction of both fields transmitted into the earth (Vozoff, 1972).

The natural electric and magnetic fields are recorded in two orthogonal, horizontal directions. The vertical magnetic field ("tipper") is also recorded. The resulting time-series signals are used to derive earth tensor apparent resistivities and phases by first converting them to complex cross-spectra using FFT (fast-Fourier-transform) techniques. Least-squares, cross-spectral analysis (Bendat and Piersol, 1971) is used to solve for a tensor-transfer function that relates the observed electric fields to the magnetic fields under the assumption that the Earth consists of a two-input, two-output, linear system with the magnetic fields as input and the electric fields as output (Rodriguez and others, 1996). Prior to conversion to apparent resistivity and phase, the tensor is normally rotated into principal directions that usually correspond to the direction of maximum and minimum apparent resistivity. For a two-dimensional (2-D) Earth, the MT fields can be de-coupled into transverse electric (TE) and transverse magnetic (TM) modes; 2-D modeling is generally done to fit both modes. When the geology satisfies the 2-D assumption, the MT data for the TE mode is assumed to represent the situation when the electric field is along the geologic strike, and the data for the TM mode is assumed to represent the situation when the electric field is across strike. The MT method is well suited for studying complicated geological environments because the electric and magnetic relations are sensitive to vertical and horizontal variations in resistivity. The method is capable of establishing whether the electromagnetic fields are responding to subsurface terranes of effectively 1-, 2-, or 3-dimensions. An excellent introduction to the MT method and references for a more advanced understanding are contained in Dobrin and Savit (1988) and Vozoff (1991).

MAGNETOTELLURIC SURVEY

Eighteen MT soundings were located along or near profile MT3-MT3' (Figure 1) with spacing that varied from 1.5 to 14.0 kilometers. The profile orientation is roughly perpendicular to the Battle Mountain-Eureka and Carlin trends. Stations 1-5, 15, and 16 were collected with our U.S. Geological Survey truck-mounted MT system (Stanley, 1978). Stations 30, 31, 35, and 99-106 were collected with our portable EMI MT-1 system (EMI, 1996). Horizontal electric fields were sensed using an L-shaped, three-electrode array with dipole lengths of 30 m except for stations 1-5, 15, and 16 where a dipole length of 37.5 m was used with our truck-mounted MT system. The orthogonal, horizontal magnetic fields in the direction of the electric-field measurement array were sensed using permalloy-cored induction coils (Stanley and Tinkler, 1983). Frequencies sampled ranged from 300 to 0.004 Hz using single station recordings of both orthogonal horizontal components of the electric and magnetic fields, along with the vertical magnetic field at stations 30, 31, 35, and 99-106. Sampling this frequency range in previous areas of widely varying geology has allowed us to probe the crust from depths of hundreds of meters to depths of tens of kilometers.

The recorded time-series data were transformed to the frequency domain and Fourier analyzed to determine a two-dimensional apparent resistivity and phase tensor at each site. The data were rotated to maximum and minimum apparent resistivity directions so that propagation modes for the signals were decoupled into TE and TM modes. Local reference sensors to help reduce bias in the impedance determinations due to instrument or environmental noise (Gamble and others, 1979a; Clarke and others, 1983) were used at stations 30, 31, and 35. Although true remote reference techniques were not used in our survey, we did sort cross-power files to select optimal signal-to-noise data sets (Appendix).

The effects of near-surface resistivity anomalies cause "static shifts" (Sternberg and others, 1988) in the data. Static shifts of this data set ranged from 0.0 to 1.3 of a log decade. Only stations 4, 16, 30, 31 and 105 had static shifts larger than one-third of a log decade, 1.3, 0.7, 0.5, 0.4, and 0.8, respectively. The remainder of the stations had an average of 0.1 of a decade static shift. The larger static shifts should be accounted for in any subsequent modeling of the data.

MAGNETOTELLURIC DATA

The following table shows eighteen magnetotelluric (MT) station locations (from southwest to northeast). Coordinates are referenced to the 1866 Clarke spheroid and North American 1927 Western United States datum. Longitude and latitude format below is decimal degrees. Elevation is in meters.

<u>Station</u>	<u>Longitude</u>	<u>Latitude</u>	<u>Elev(m)</u>
16	-117.03204	40.03355	1740
106	-116.99012	40.02843	1571
15	-116.92586	40.06778	1595
1	-116.84890	40.15161	1590
2	-116.75097	40.20433	1500
105	-116.77233	40.21090	1560
5	-116.66432	40.23551	1475
3	-116.58452	40.27633	1445
4	-116.57803	40.29375	1445
99	-116.59627	40.32478	1475
100	-116.44335	40.35050	1475
101	-116.32823	40.39182	1550
102	-116.25280	40.48377	1640
103	-116.10717	40.48735	1600
104	-115.98703	40.53218	1950
30	-116.81659	40.26598	1740
31	-116.80054	40.31094	1870
35	-116.64283	40.39057	1580

The figures in the Appendix represent the raw field MT data for each station after the time series data was converted to the frequency domain and least-squares, cross-spectral analysis (Bendat and Piersol, 1971) was used to solve for a tensor-transfer function. This tensor transfer function was used to rotate the tensor into principal directions that correspond to the direction (rotation angle) of maximum and minimum apparent resistivity. Apparent resistivity and impedance phase were then calculated.

For each station, nine separate graph plots are given:

- Apparent Resistivity for two modes,
- Impedance Phase for two modes,
- Rotation Angle for the impedance tensor,
- Impedance Skew for the impedance tensor,
- Multiple Coherency for two modes of the electric field,
- Impedance Polar Plots (at 12 selected frequencies),
- Tipper Magnitude for the vertical magnetic field,
- Tipper Strike for the vertical magnetic field, and
- HzHx (x symbol) and HzHy (o symbol) Coherency.

Each of these graphs plots the above quantity versus frequency. The Apparent Resistivity, Impedance Phase, and Multiple Coherency plots use x and o symbols to distinguish the two tensor modes. When inverting or modeling the data, these modes will be identified as TE and TM. The x and o symbols on the HzHx and HzHy Coherency plot represent HzHx and HzHy coherency, respectively. Error bars are probable errors within one standard deviation of the sample variance (Gamble and others, 1979b).

Apparent resistivity is a measure of the magnitude of the electric field strength over the magnetic field strength for a given frequency. The impedance phase is proportional to the slope of the apparent resistivity curve on a log-log scale, but from a baseline at -45 degrees (Vozoff, 1991). A measure of the dimensionality for MT data is provided by the impedance skew of the impedance tensor (Vozoff, 1972). If the effective measured resistivity response to the geology beneath a MT station is truly 1-D or 2-D, then the skew will be zero. Both instrument and environmental sources of noise contribute to non-zero skew values, but are typically small (about 0.1) for relatively low noise level recordings. Higher skews (above 0.2) are an indication of either 3-D resistivity responses to the geology or higher levels of noise. Man-made electrical noise, such as power lines, power generators, moving vehicles and trains can have a negative effect on MT data quality. All these local disturbances produce an incoherent noise mainly affecting higher frequencies, usually above 1 Hz. Other man-made electrical noise, such as direct current electric trains and active cathodic protection of pipelines produce coherent electromagnetic signals mainly affecting frequencies below 1 Hz.

In the survey area, noise from a number of small power lines and small moving vehicles was negligible at distances of 0.4 km and greater. Power line levels were measured at each site and were typically less than 20% of the maximum recordable signals. Noise from larger power lines, power generators, pipelines, railroads, and steam-driven trains, mostly near mining operations, was negligible at least 5 km from them. Recordings were not made when noise from moving vehicles affected the magnetic signals. Local lightning, wind, and rainstorms can also degrade data quality, but these were avoided by not recording during active thunderstorm periods. Wind noise was minimized by burying the magnetic induction coils.

Predicted values of the electric field can be computed from the measured values of the magnetic field (Vozoff, 1991). The coherence of the predicted electric field with the measured electric field is a measure of the signal-to-noise ratio provided in the multiple coherency plot. Values are normalized between 0 and 1, where values at 0.5 signify signal levels equal to noise levels. For this data set, coherencies were generally at an acceptable level, except at times in the "dead band" (0.1 to 1 Hz) and at times in the lower frequencies (0.004 to 0.1). The lower frequency ionospheric signals are related to sunspot activity whose levels typically follow an 11-year cycle. The sunspot activity was near the lowest level of the cycle during the 1994, 1996, and 1997 surveys, and was near the highest level in the 2000 survey.

The figures in the Appendix represent the raw field MT data at each station, which includes some data scatter and poor signal-to-noise ratios. Our only effort at removing noisy data points was to visually inspect and select the best signal-to-noise field data to combine into the final data plots.

The impedance polar plots provide a measure of the MT data dimensionality (Reddy and others, 1977). For 1-D resistivity structures, the principal impedance polar diagrams are circles. For 2-D or 3-D resistivity structures, the principal impedance polar diagrams (dashed lines) elongate either parallel or perpendicular to strike direction. Over resistors, the principal impedance polar diagrams elongate perpendicular to strike direction and over conductors, the principal impedance polar diagrams elongate parallel to strike direction. Also, for 2-D resistivity structures, the additional impedance polar diagrams (solid lines) attain the shape of a symmetric clover leaf. For 3-D resistivity structures, the additional impedance polar diagrams elongate in one direction and their amplitudes are comparable to those of principal impedances. Sites whose polar plots indicated 3-D character in the lower frequencies were MT stations 3, 4, 100, and 101 ([Figure 1](#)).

The tipper can be solved for when the vertical component of the magnetic field is measured. The tipper magnitude is a measure of the tipping of the magnetic field out of the horizontal plane (Vozoff, 1991). The magnitude is zero for the 1-D case and typically increases between 0.1 to 0.5, and rarely as great as 1, as it responds to vertical and sub-vertical structures. The tipper strike is typically used to help resolve the 90-degree ambiguity in the impedance rotation

angle. The vertical component of the magnetic field was measured at MT stations 30, 31, 35, and 99-106. The tipper magnitude of these stations was typically 0.1 to 0.4 over the lower frequencies indicating vertical structure at depth. The H_zH_x and H_zH_y coherency is a measure of the signal-to-noise ratio of the vertical magnetic field with respect to each of the orthogonal horizontal magnetic field directions. Values are normalized between 0 and 1, where values at 0.5 signify signal levels equal to noise levels. These three-component magnetic field coherencies provide a check on the signal-to-noise ratio of the measured values in the tipper magnitude and tipper strike plots.

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APPENDIX

MAGNETOTELLURIC DATA PLOTS

For stations 30, 31, 35, and 99-106, there are nine separate graph plots:

- Apparent Resistivity for two modes,
- Impedance Phase for two modes,
- Rotation Angle for the impedance tensor,
- Impedance Skew for the impedance tensor,
- Multiple Coherency for two modes of the electric field,
- Impedance Polar Plots (at 12 selected frequencies),
- Tipper Magnitude for the vertical magnetic field,
- Tipper Strike for the vertical magnetic field, and
- HzHx (x symbol) and HzHy (o symbol) Coherency.

Stations 1-5, 15, and 16, only have the first six graph plots above, since the vertical magnetic field data (Tipper, Hz) was not acquired. Refer to the "Magnetotelluric Data" section in this report for an explanation of these plots.

Figure 1. Index map. Magnetotelluric transect (MT3-MT3') acquired in 1994, 1996, 1997, and 2000 in northeastern Nevada. Shaded zones are two northwest-trending mineralized belts in northeastern Nevada, the well-known Carlin trend and the Battle Mountain-Eureka trend. Base map adapted from Struhsacker and others (1996).

APPARENT RESISTIVITY

Client:
Remote:
Acquired: :
Survey Co:

Rotation:
Filename: CT16C
Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6 Ch7
Plotted: 15:52 Dec 11, 2000
< EMI - ElectroMagnetic Instruments >

Station 16

IMPEDANCE PHASE

Client:

Remote:

Acquired:

Survey Co:

Rotation:

Filename: CT16C

Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6 Ch7

Plotted: 15:52 Dec 11, 2000

< EMI - ElectroMagnetic Instruments >

ROTATION ANGLE

Client:
Remote:
Acquired: :
Survey Co:

Rotation:
Filename: CT16C
Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6 Ch7
Plotted: 15:52 Dec 11, 2000
< EMI - ElectroMagnetic Instruments >

Station 16

IMPEDANCE SKEW

Client:
Remote:
Acquired: :
Survey Co:

Rotation:
Filename: CT16C
Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6 Ch7
Plotted: 15:52 Dec 11, 2000
< EMI - ElectroMagnetic Instruments >

Station 16

E MULT Coh.

Client:

Remote:

Acquired:

Survey Co:

Rotation:

Filename: CT16C

Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6 Ch7

Plotted: 15:52 Dec 11, 2000

< EMI - ElectroMagnetic Instruments >

Station 16

POLAR PLOTS

.0047 Hz
.171 Hz
3.422 Hz

.0172 Hz
.203 Hz
12.695 Hz

.0398 Hz
.797 Hz
33.203 Hz

.0844 Hz
1.688 Hz
73.242 Hz

Client:

Remote:

Acquired: :

Survey Co:

Rotation:

Filename: CT16C

Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6 Ch7

Plotted: 15:52 Dec 11, 2000

< EMI - ElectroMagnetic Instruments >

Client:
Remote: none
Acquired: 13:5 Aug 04, 2000
Survey Co:USGS

Rotation:
Filename: hr106c.avg
Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch3 Ch4
Plotted: 15:23 Jan 24, 2001
< EMI - ElectroMagnetic Instruments >

IMPEDANCE PHASE

Station 106
Crescent Valley, NV 100K

Client:
Remote: none
Acquired: 13:5 Aug 04, 2000
Survey Co:USGS

Rotation:
Filename: hr106c.avg
Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch3 Ch4
Plotted: 15:23 Jan 24, 2001
< EMI - ElectroMagnetic Instruments >

ROTATION ANGLE

Crescent Valley, NV 100K

Client:
Remote: none
Acquired: 13:5 Aug 04, 2000
Survey Co:USGS

Rotation:
Filename: hr106c.avg
Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch3 Ch4
Plotted: 15:23 Jan 24, 2001
< EMI - ElectroMagnetic Instruments >

Station 106

IMPEDANCE SKEW

Crescent Valley, NV 100K

Client:
Remote: none
Acquired: 13:5 Aug 04, 2000
Survey Co:USGS

Rotation:
Filename: hr106c.avg
Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch3 Ch4
Plotted: 15:23 Jan 24, 2001
< EMI - ElectroMagnetic Instruments >

Station 106

E MULT Coh.

Crescent Valley, NV 100K

Client:
Remote: none
Acquired: 13:5 Aug 04, 2000
Survey Co:USGS

Rotation:
Filename: hr106c.avg
Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch3 Ch4
Plotted: 15:23 Jan 24, 2001
< EMI - ElectroMagnetic Instruments >

POLAR PLOTS

Crescent Valley, NV 100K

.0088 Hz

.0244 Hz

.0566 Hz

.120 Hz

.172 Hz

.345 Hz

.566 Hz

1.758 Hz

2.930 Hz

7.617 Hz

16.602 Hz

34.375 Hz

Client:

Remote: none

Acquired: 13:5 Aug 04, 2000

Survey Co:USGS

Rotation:

Filename: hr106c.avg

Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch3 Ch4

Plotted: 15:23 Jan 24, 2001

< EMI - ElectroMagnetic Instruments >

Station 106

TIPPER MAGNITUDE

Crescent Valley, NV 100K

Client:
Remote: none
Acquired: 13:5 Aug 04, 2000
Survey Co:USGS

Rotation:
Filename: hr106c.avg
Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch3 Ch4
Plotted: 15:23 Jan 24, 2001
< EMI - ElectroMagnetic Instruments >

TIPPER STRIKE

Crescent Valley, NV 100K

Client:
Remote: none
Acquired: 13:5 Aug 04, 2000
Survey Co:USGS

Rotation:
Filename: hr106c.avg
Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch3 Ch4
Plotted: 15:23 Jan 24, 2001
< EMI - ElectroMagnetic Instruments >

HzHx.x Coh HzHy.o

Crescent Valley, NV 100K

Client:
Remote: none
Acquired: 13:5 Aug 04, 2000
Survey Co:USGS

Rotation:
Filename: hr106c.avg
Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch3 Ch4
Plotted: 15:23 Jan 24, 2001
< EMI - ElectroMagnetic Instruments >

APPARENT RESISTIVITY

Client:

Remote:

Acquired:

Survey Co:

Rotation:

Filename: CT15F

Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6 Ch7

Plotted: 15:49 Dec 11, 2000

< EMI - ElectroMagnetic Instruments >

IMPEDANCE PHASE

Client:
Remote:
Acquired:
Survey Co:

Rotation:
Filename: CT15F
Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6 Ch7
Plotted: 15:49 Dec 11, 2000
< EMI - ElectroMagnetic Instruments >

ROTATION ANGLE

Client:
Remote:
Acquired: :
Survey Co:

Rotation:
Filename: CT15F
Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6 Ch7
Plotted: 15:49 Dec 11, 2000
< EMI - ElectroMagnetic Instruments >

IMPEDANCE SKEW

Client:

Remote:

Acquired:

Survey Co:

Rotation:

Filename: CT15F

Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6 Ch7

Plotted: 15:49 Dec 11, 2000

< EMI - ElectroMagnetic Instruments >

E MULT Coh.

Client:

Remote:

Acquired:

Survey Co:

Rotation:

Filename: CT15F

Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6 Ch7

Plotted: 15:49 Dec 11, 2000

< EMI - ElectroMagnetic Instruments >

POLAR PLOTS

.0047 Hz

.0172 Hz

.0398 Hz

.0844 Hz

.171 Hz

.203 Hz

.797 Hz

1.688 Hz

3.422 Hz

12.695 Hz

33.203 Hz

73.242 Hz

Client:

Remote:

Acquired:

Survey Co:

Rotation:

Filename: CT15F

Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6 Ch7

Plotted: 15:49 Dec 11, 2000

< EMI - ElectroMagnetic Instruments >

APPARENT RESISTIVITY

Client:

Remote:

Acquired:

Survey Co:

Rotation:

Filename: NNR01

Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6 Ch7

Plotted: 15:29 Dec 11, 2000

< EMI - ElectroMagnetic Instruments >

IMPEDANCE PHASE

Client:
Remote:
Acquired: :
Survey Co:

Rotation:
Filename: NNR01
Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6 Ch7
Plotted: 15:29 Dec 11, 2000
< EMI - ElectroMagnetic Instruments >

ROTATION ANGLE

Client:
Remote:
Acquired: :
Survey Co:

Rotation:
Filename: NNR01
Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6 Ch7
Plotted: 15:29 Dec 11, 2000
< EMI - ElectroMagnetic Instruments >

IMPEDANCE SKEW

Client:
Remote:
Acquired: :
Survey Co:

Rotation:
Filename: NNR01
Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6 Ch7
Plotted: 15:29 Dec 11, 2000
< EMI - ElectroMagnetic Instruments >

Station 1

E MULT Coh.

Client:
Remote:
Acquired: : ,
Survey Co:

Rotation:
Filename: NNR01
Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6 Ch7
Plotted: 15:29 Dec 11, 2000
< EMI - ElectroMagnetic Instruments >

POLAR PLOTS

Client:
 Remote:
 Acquired: : ,
 Survey Co:

Rotation:
 Filename: NNR01
 Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6 Ch7
 Plotted: 15:29 Dec 11, 2000
 < EMI - ElectroMagnetic Instruments >

APPARENT RESISTIVITY

Client:
Remote:
Acquired: :
Survey Co:

Rotation:
Filename: NNR02
Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6 Ch7
Plotted: 15:34 Dec 11, 2000
< EMI - ElectroMagnetic Instruments >

IMPEDANCE PHASE

Client:
Remote:
Acquired: :
Survey Co:

Rotation:
Filename: NNR02
Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6 Ch7
Plotted: 15:34 Dec 11, 2000
< EMI - ElectroMagnetic Instruments >

ROTATION ANGLE

Client:

Remote:

Acquired:

Survey Co:

Rotation:

Filename: NNR02

Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6 Ch7

Plotted: 15:34 Dec 11, 2000

< EMI - ElectroMagnetic Instruments >

Station 2

IMPEDANCE SKEW

Client:
Remote:
Acquired: :
Survey Co:

Rotation:
Filename: NNR02
Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6 Ch7
Plotted: 15:34 Dec 11, 2000
< EMI - ElectroMagnetic Instruments >

E MULT Coh.

Client:

Remote:

Acquired:

Survey Co:

Rotation:

Filename: NNR02

Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6 Ch7

Plotted: 15:34 Dec 11, 2000

< EMI - ElectroMagnetic Instruments >

POLAR PLOTS

.0047 Hz

.0172 Hz

.0398 Hz

.0844 Hz

.171 Hz

.203 Hz

.797 Hz

1.688 Hz

3.422 Hz

12.695 Hz

33.203 Hz

73.242 Hz

Client:

Remote:

Acquired:

Survey Co:

Rotation:

Filename: NNR02

Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6 Ch7

Plotted: 15:34 Dec 11, 2000

< EMI - ElectroMagnetic Instruments >

APPARENT RESISTIVITY

Crescent Valley, NV 100K

Client:
Remote: none
Acquired: 10:1 Aug 04, 2000
Survey Co:USGS

Rotation:
Filename: hr105c.avg
Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch3 Ch4
Plotted: 15:24 Jan 24, 2001
< EMI - ElectroMagnetic Instruments >

IMPEDANCE PHASE

Crescent Valley, NV 100K

Client:
Remote: none
Acquired: 10:1 Aug 04, 2000
Survey Co:USGS

Rotation:
Filename: hr105c.avg
Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch3 Ch4
Plotted: 15:24 Jan 24, 2001
< EMI - ElectroMagnetic Instruments >

ROTATION ANGLE

Crescent Valley, NV 100K

Client:
Remote: none
Acquired: 10:1 Aug 04, 2000
Survey Co:USGS

Rotation:
Filename: hr105c.avg
Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch3 Ch4
Plotted: 15:24 Jan 24, 2001
< EMI - ElectroMagnetic Instruments >

IMPEDANCE SKEW

Crescent Valley, NV 100K

Client:
Remote: none
Acquired: 10:1 Aug 04, 2000
Survey Co:USGS

Rotation:
Filename: hr105c.avg
Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch3 Ch4
Plotted: 15:24 Jan 24, 2001
< EMI - ElectroMagnetic Instruments >

Station 105

E MULT Coh.

Crescent Valley, NV 100K

Client:
 Remote: none
 Acquired: 10:1 Aug 04, 2000
 Survey Co:USGS

Rotation:
 Filename: hr105c.avg
 Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch3 Ch4
 Plotted: 15:24 Jan 24, 2001
 < EMI - ElectroMagnetic Instruments >

POLAR PLOTS

Crescent Valley, NV 100K

.0088 Hz

.0244 Hz

.0566 Hz

.120 Hz

.172 Hz

.345 Hz

.566 Hz

1.758 Hz

2.930 Hz

7.617 Hz

16.602 Hz

34.375 Hz

Client:

Remote: none

Acquired: 10:1 Aug 04, 2000

Survey Co:USGS

Rotation:

Filename: hr105c.avg

Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch3 Ch4

Plotted: 15:24 Jan 24, 2001

< EMI - ElectroMagnetic Instruments >

Station 105

TIPPER MAGNITUDE

Crescent Valley, NV 100K

Client:
Remote: none
Acquired: 10:1 Aug 04, 2000
Survey Co:USGS

Rotation:
Filename: hr105c.avg
Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch3 Ch4
Plotted: 15:24 Jan 24, 2001
< EMI - ElectroMagnetic Instruments >

Station 105

TIPPER STRIKE

Crescent Valley, NV 100K

Client:
Remote: none
Acquired: 10:1 Aug 04, 2000
Survey Co:USGS

Rotation:
Filename: hr105c.avg
Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch3 Ch4
Plotted: 15:24 Jan 24, 2001
< EMI - ElectroMagnetic Instruments >

Station 105

HzHx.x Coh HzHy.o

Crescent Valley, NV 100K

Client:
Remote: none
Acquired: 10:1 Aug 04, 2000
Survey Co:USGS

Rotation:
Filename: hr105c.avg
Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch3 Ch4
Plotted: 15:24 Jan 24, 2001
< EMI - ElectroMagnetic Instruments >

Station 5

APPARENT RESISTIVITY

Client:
Remote:
Acquired: :
Survey Co:

Rotation:
Filename: NNR05
Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6 Ch7
Plotted: 15:38 Dec 11, 2000
< EMI - ElectroMagnetic Instruments >

IMPEDANCE PHASE

Client:
Remote:
Acquired: :
Survey Co:

Rotation:
Filename: NNR05
Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6 Ch7
Plotted: 15:38 Dec 11, 2000
< EMI - ElectroMagnetic Instruments >

ROTATION ANGLE

Client:
Remote:
Acquired: :
Survey Co:

Rotation:
Filename: NNR05
Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6 Ch7
Plotted: 15:38 Dec 11, 2000
< EMI - ElectroMagnetic Instruments >

IMPEDANCE SKEW

Client:
Remote:
Acquired: :
Survey Co:

Rotation:
Filename: NNR05
Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6 Ch7
Plotted: 15:38 Dec 11, 2000
< EMI - ElectroMagnetic Instruments >

E MULT Coh.

Client:
 Remote:
 Acquired: :
 Survey Co:

Rotation:
 Filename: NNR05
 Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6 Ch7
 Plotted: 15:38 Dec 11, 2000
 < EMI - ElectroMagnetic Instruments >

Station 5

POLAR PLOTS

.0047 Hz

.171 Hz

3.422 Hz

.0172 Hz

.203 Hz

12.695 Hz

.0398 Hz

.797 Hz

33.203 Hz

.0844 Hz

1.688 Hz

73.242 Hz

Client:

Remote:

Acquired:

Survey Co:

Rotation:

Filename: NNR05

Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6 Ch7

Plotted: 15:38 Dec 11, 2000

< EMI - ElectroMagnetic Instruments >

APPARENT RESISTIVITY

Client:
Remote:
Acquired: :
Survey Co:

Rotation:
Filename: NNR03
Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6 Ch7
Plotted: 15:35 Dec 11, 2000
< EMI - ElectroMagnetic Instruments >

IMPEDANCE PHASE

Client:
Remote:
Acquired: :
Survey Co:

Rotation:
Filename: NNR03
Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6 Ch7
Plotted: 15:35 Dec 11, 2000
< EMI - ElectroMagnetic Instruments >

Station 3

Client:
Remote:
Acquired: :
Survey Co:

Rotation:
Filename: NNR03
Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6 Ch7
Plotted: 15:36 Dec 11, 2000
< EMI - ElectroMagnetic Instruments >

IMPEDANCE SKEW

Client:
Remote:
Acquired: :
Survey Co:

Rotation:
Filename: NNR03
Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6 Ch7
Plotted: 15:36 Dec 11, 2000
< EMI - ElectroMagnetic Instruments >

E MULT Coh.

Client:

Remote:

Acquired:

Survey Co:

Rotation:

Filename: NNR03

Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6 Ch7

Plotted: 15:36 Dec 11, 2000

< EMI - ElectroMagnetic Instruments >

POLAR PLOTS

.0047 Hz

.0172 Hz

.0398 Hz

.0844 Hz

.171 Hz

.203 Hz

.797 Hz

1.688 Hz

3.422 Hz

12.695 Hz

33.203 Hz

73.242 Hz

Client:

Remote:

Acquired:

Survey Co:

Rotation:

Filename: NNR03

Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6 Ch7

Plotted: 15:36 Dec 11, 2000

< EMI - ElectroMagnetic Instruments >

Station 4

APPARENT RESISTIVITY

Client:
Remote:
Acquired: :
Survey Co:

Rotation:
Filename: NNR04
Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6 Ch7
Plotted: 15:37 Dec 11, 2000
< EMI - ElectroMagnetic Instruments >

Station 4

IMPEDANCE PHASE

Client:
Remote:
Acquired: :
Survey Co:

Rotation:
Filename: NNR04
Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6 Ch7
Plotted: 15:37 Dec 11, 2000
< EMI - ElectroMagnetic Instruments >

ROTATION ANGLE

Client:
Remote:
Acquired: :
Survey Co:

Rotation:
Filename: NNR04
Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6 Ch7
Plotted: 15:37 Dec 11, 2000
< EMI - ElectroMagnetic Instruments >

IMPEDANCE SKEW

Client:
Remote:
Acquired: :
Survey Co:

Rotation:
Filename: NNR04
Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6 Ch7
Plotted: 15:37 Dec 11, 2000
< EMI - ElectroMagnetic Instruments >

Station 4

E MULT Coh.

Client:	Rotation:
Remote:	Filename: NNR04
Acquired:	Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6 Ch7
Survey Co:	Plotted: 15:37 Dec 11, 2000
	< EMI - ElectroMagnetic Instruments >

POLAR PLOTS

Client:

Remote:

Acquired:

Survey Co:

Rotation:

Filename: NNR04

Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6 Ch7

Plotted: 15:37 Dec 11, 2000

< EMI - ElectroMagnetic Instruments >

APPARENT RESISTIVITY

Crescent Valley, NV 100K

Client:
 Remote: none
 Acquired: 09:1 Jul 31, 2000
 Survey Co:USGS

Rotation:
 Filename: hr99a.avg
 Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch3 Ch4
 Plotted: 15:24 Jan 24, 2001
 < EMI - ElectroMagnetic Instruments >

IMPEDANCE PHASE

Crescent Valley, NV 100K

Client:
Remote: none
Acquired: 09:1 Jul 31, 2000
Survey Co:USGS

Rotation:
Filename: hr99a.avg
Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch3 Ch4
Plotted: 15:24 Jan 24, 2001
< EMI - ElectroMagnetic Instruments >

ROTATION ANGLE

Crescent Valley, NV 100K

Client:
Remote: none
Acquired: 09:1 Jul 31, 2000
Survey Co:USGS

Rotation:
Filename: hr99a.avg
Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch3 Ch4
Plotted: 15:24 Jan 24, 2001
< EMI - ElectroMagnetic Instruments >

IMPEDANCE SKEW

Crescent Valley, NV 100K

Client:
Remote: none
Acquired: 09:1 Jul 31, 2000
Survey Co:USGS

Rotation:
Filename: hr99a.avg
Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch3 Ch4
Plotted: 15:24 Jan 24, 2001
< EMI - ElectroMagnetic Instruments >

E MULT Coh.

Crescent Valley, NV 100K

Client:
Remote: none
Acquired: 09:1 Jul 31, 2000
Survey Co:USGS

Rotation:
Filename: hr99a.avg
Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch3 Ch4
Plotted: 15:24 Jan 24, 2001
< EMI - ElectroMagnetic Instruments >

Station 99

POLAR PLOTS

Crescent Valley, NV 100K

.0088 Hz

.0244 Hz

.0566 Hz

.120 Hz

.172 Hz

.345 Hz

.566 Hz

1.758 Hz

2.930 Hz

7.617 Hz

16.602 Hz

34.375 Hz

Client:

Remote: none

Acquired: 09:1 Jul 31, 2000

Survey Co:USGS

Rotation:

Filename: hr99a.avg

Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch3 Ch4

Plotted: 15:24 Jan 24, 2001

< EMI - ElectroMagnetic Instruments >

TIPPER MAGNITUDE

Crescent Valley, NV 100K

Client:
Remote: none
Acquired: 09:1 Jul 31, 2000
Survey Co:USGS

Rotation:
Filename: hr99a.avg
Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch3 Ch4
Plotted: 15:24 Jan 24, 2001
< EMI - ElectroMagnetic Instruments >

TIPPER STRIKE

Crescent Valley, NV 100K

Client:
Remote: none
Acquired: 09:1 Jul 31, 2000
Survey Co:USGS

Rotation:
Filename: hr99a.avg
Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch3 Ch4
Plotted: 15:24 Jan 24, 2001
< EMI - ElectroMagnetic Instruments >

HzHx.x Coh HzHy.o

Crescent Valley, NV 100K

Client:
 Remote: none
 Acquired: 09:1 Jul 31, 2000
 Survey Co:USGS

Rotation:
 Filename: hr99a.avg
 Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch3 Ch4
 Plotted: 15:25 Jan 24, 2001
 < EMI - ElectroMagnetic Instruments >

APPARENT RESISTIVITY

Crescent Valley, NV 100K

Client:
 Remote: none
 Acquired: 12:1 Jul 31, 2000
 Survey Co:USGS

Rotation:
 Filename: hr100a.avg
 Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch3 Ch4
 Plotted: 15:25 Jan 24, 2001
 < EMI - ElectroMagnetic Instruments >

Station 100

IMPEDANCE PHASE

Crescent Valley, NV 100K

Client:
Remote: none
Acquired: 12:1 Jul 31, 2000
Survey Co:USGS

Rotation:
Filename: hr100a.avg
Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch3 Ch4
Plotted: 15:25 Jan 24, 2001
< EMI - ElectroMagnetic Instruments >

ROTATION ANGLE

Crescent Valley, NV 100K

Client:
Remote: none
Acquired: 12:1 Jul 31, 2000
Survey Co:USGS

Rotation:
Filename: hr100a.avg
Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch3 Ch4
Plotted: 15:25 Jan 24, 2001
< EMI - ElectroMagnetic Instruments >

IMPEDANCE SKEW

Crescent Valley, NV 100K

Client:
Remote: none
Acquired: 12:1 Jul 31, 2000
Survey Co:USGS

Rotation:
Filename: hr100a.avg
Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch3 Ch4
Plotted: 15:25 Jan 24, 2001
< EMI - ElectroMagnetic Instruments >

E MULT Coh.

Crescent Valley, NV 100K

Client:
Remote: none
Acquired: 12:1 Jul 31, 2000
Survey Co:USGS

Rotation:
Filename: hr100a.avg
Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch3 Ch4
Plotted: 15:25 Jan 24, 2001
< EMI - ElectroMagnetic Instruments >

POLAR PLOTS

Crescent Valley, NV 100K

.0088 Hz

.0244 Hz

.0566 Hz

.120 Hz

.172 Hz

.345 Hz

.566 Hz

1.758 Hz

2.930 Hz

7.617 Hz

16.602 Hz

34.375 Hz

Client:

Remote: none

Acquired: 12:1 Jul 31, 2000

Survey Co:USGS

Rotation:

Filename: hr100a.avg

Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch3 Ch4

Plotted: 15:25 Jan 24, 2001

< EMI - ElectroMagnetic Instruments >

TIPPER MAGNITUDE

Crescent Valley, NV 100K

Client:
Remote: none
Acquired: 12:1 Jul 31, 2000
Survey Co:USGS

Rotation:
Filename: hr100a.avg
Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch3 Ch4
Plotted: 15:25 Jan 24, 2001
< EMI - ElectroMagnetic Instruments >

TIPPER STRIKE

Crescent Valley, NV 100K

Client:
Remote: none
Acquired: 12:1 Jul 31, 2000
Survey Co:USGS

Rotation:
Filename: hr100a.avg
Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch3 Ch4
Plotted: 15:25 Jan 24, 2001
< EMI - ElectroMagnetic Instruments >

HzHx.x Coh HzHy.o

Crescent Valley, NV 100K

Client:
Remote: none
Acquired: 12:1 Jul 31, 2000
Survey Co:USGS

Rotation:
Filename: hr100a.avg
Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch3 Ch4
Plotted: 15:25 Jan 24, 2001
< EMI - ElectroMagnetic Instruments >

APPARENT RESISTIVITY

Crescent Valley, NV 100K

Client:
Remote: none
Acquired: 09:4 Aug 02, 2000
Survey Co:USGS

Rotation:
Filename: hr101all.avg
Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch3 Ch4
Plotted: 15:26 Jan 24, 2001
< EMI - ElectroMagnetic Instruments >

IMPEDANCE PHASE

Crescent Valley, NV 100K

Client:
Remote: none
Acquired: 09:4 Aug 02, 2000
Survey Co:USGS

Rotation:
Filename: hr101all.avg
Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch3 Ch4
Plotted: 15:26 Jan 24, 2001
< EMI - ElectroMagnetic Instruments >

ROTATION ANGLE

Crescent Valley, NV 100K

Client:
Remote: none
Acquired: 09:4 Aug 02, 2000
Survey Co:USGS

Rotation:
Filename: hr101all.avg
Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch3 Ch4
Plotted: 15:26 Jan 24, 2001
< EMI - ElectroMagnetic Instruments >

IMPEDANCE SKEW

Crescent Valley, NV 100K

Client:
Remote: none
Acquired: 09:4 Aug 02, 2000
Survey Co:USGS

Rotation:
Filename: hr101all.avg
Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch3 Ch4
Plotted: 15:26 Jan 24, 2001
< EMI - ElectroMagnetic Instruments >

E MULT Coh.

Crescent Valley, NV 100K

Client:
Remote: none
Acquired: 09:4 Aug 02, 2000
Survey Co:USGS

Rotation:
Filename: hr101all.avg
Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch3 Ch4
Plotted: 15:26 Jan 24, 2001
< EMI - ElectroMagnetic Instruments >

POLAR PLOTS

Crescent Valley, NV 100K

Client:
 Remote: none
 Acquired: 09:4 Aug 02, 2000
 Survey Co:USGS

Rotation:
 Filename: hr101all.avg
 Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch3 Ch4
 Plotted: 15:26 Jan 24, 2001
 < EMI - ElectroMagnetic Instruments >

TIPPER MAGNITUDE

Crescent Valley, NV 100K

Client:
Remote: none
Acquired: 09:4 Aug 02, 2000
Survey Co:USGS

Rotation:
Filename: hr101all.avg
Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch3 Ch4
Plotted: 15:26 Jan 24, 2001
< EMI - ElectroMagnetic Instruments >

TIPPER STRIKE

Crescent Valley, NV 100K

Client:
Remote: none
Acquired: 09:4 Aug 02, 2000
Survey Co:USGS

Rotation:
Filename: hr101all.avg
Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch3 Ch4
Plotted: 15:26 Jan 24, 2001
< EMI - ElectroMagnetic Instruments >

HzHx.x Coh HzHy.o

Crescent Valley, NV 100K

Client:
Remote: none
Acquired: 09:4 Aug 02, 2000
Survey Co:USGS

Rotation:
Filename: hr101all.avg
Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch3 Ch4
Plotted: 15:26 Jan 24, 2001
< EMI - ElectroMagnetic Instruments >

APPARENT RESISTIVITY

Crescent Valley, NV 100K

Client:
Remote: none
Acquired: 13:0 Aug 02, 2000
Survey Co:USGS

Rotation:
Filename: hr102all.avg
Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch3 Ch4
Plotted: 15:27 Jan 24, 2001
< EMI - ElectroMagnetic Instruments >

IMPEDANCE PHASE

Crescent Valley, NV 100K

Client:
Remote: none
Acquired: 13:0 Aug 02, 2000
Survey Co:USGS

Rotation:
Filename: hr102all.avg
Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch3 Ch4
Plotted: 15:27 Jan 24, 2001
< EMI - ElectroMagnetic Instruments >

ROTATION ANGLE

Crescent Valley, NV 100K

Client:
Remote: none
Acquired: 13:0 Aug 02, 2000
Survey Co:USGS

Rotation:
Filename: hr102all.avg
Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch3 Ch4
Plotted: 15:27 Jan 24, 2001
< EMI - ElectroMagnetic Instruments >

Station 102

IMPEDANCE SKEW

Crescent Valley, NV 100K

Client:
Remote: none
Acquired: 13:0 Aug 02, 2000
Survey Co:USGS

Rotation:
Filename: hr102all.avg
Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch3 Ch4
Plotted: 15:27 Jan 24, 2001
< EMI - ElectroMagnetic Instruments >

E MULT Coh.

Crescent Valley, NV 100K

Client:
Remote: none
Acquired: 13:0 Aug 02, 2000
Survey Co:USGS

Rotation:
Filename: hr102all.avg
Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch3 Ch4
Plotted: 15:27 Jan 24, 2001
< EMI - ElectroMagnetic Instruments >

POLAR PLOTS

Crescent Valley, NV 100K

.0088 Hz

.0244 Hz

.0566 Hz

.120 Hz

.172 Hz

.381 Hz

.830 Hz

1.719 Hz

2.930 Hz

4.883 Hz

16.602 Hz

34.375 Hz

Client:

Remote: none

Acquired: 13:0 Aug 02, 2000

Survey Co:USGS

Rotation:

Filename: hr102all.avg

Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch3 Ch4

Plotted: 15:27 Jan 24, 2001

< EMI - ElectroMagnetic Instruments >

TIPPER MAGNITUDE

Crescent Valley, NV 100K

Client:
Remote: none
Acquired: 13:0 Aug 02, 2000
Survey Co:USGS

Rotation:
Filename: hr102all.avg
Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch3 Ch4
Plotted: 15:27 Jan 24, 2001
< EMI - ElectroMagnetic Instruments >

TIPPER STRIKE

Crescent Valley, NV 100K

Client:
Remote: none
Acquired: 13:0 Aug 02, 2000
Survey Co:USGS

Rotation:
Filename: hr102all.avg
Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch3 Ch4
Plotted: 15:27 Jan 24, 2001
< EMI - ElectroMagnetic Instruments >

HzHx.x Coh HzHy.o

Crescent Valley, NV 100K

Client:
Remote: none
Acquired: 13:0 Aug 02, 2000
Survey Co:USGS

Rotation:
Filename: hr102all.avg
Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch3 Ch4
Plotted: 15:27 Jan 24, 2001
< EMI - ElectroMagnetic Instruments >

Client:
Remote: none
Acquired: 10:2 Aug 03, 2000
Survey Co:USGS

Rotation:
Filename: hr103all.avg
Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch3 Ch4
Plotted: 15:28 Jan 24, 2001
< EMI - ElectroMagnetic Instruments >

IMPEDANCE PHASE

Crescent Valley, NV 100K

Client:
Remote: none
Acquired: 10:2 Aug 03, 2000
Survey Co:USGS

Rotation:
Filename: hr103all.avg
Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch3 Ch4
Plotted: 15:28 Jan 24, 2001
< EMI - ElectroMagnetic Instruments >

Station 103

ROTATION ANGLE

Crescent Valley, NV 100K

Client:
Remote: none
Acquired: 10:2 Aug 03, 2000
Survey Co:USGS

Rotation:
Filename: hr103all.avg
Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch3 Ch4
Plotted: 15:28 Jan 24, 2001
< EMI - ElectroMagnetic Instruments >

IMPEDANCE SKEW

Crescent Valley, NV 100K

Client:
Remote: none
Acquired: 10:2 Aug 03, 2000
Survey Co:USGS

Rotation:
Filename: hr103all.avg
Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch3 Ch4
Plotted: 15:28 Jan 24, 2001
< EMI - ElectroMagnetic Instruments >

E MULT Coh.

Crescent Valley, NV 100K

Client:
Remote: none
Acquired: 10:2 Aug 03, 2000
Survey Co:USGS

Rotation:
Filename: hr103all.avg
Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch3 Ch4
Plotted: 15:28 Jan 24, 2001
< EMI - ElectroMagnetic Instruments >

POLAR PLOTS

Crescent Valley, NV 100K

.0088 Hz

.0244 Hz

.0566 Hz

.120 Hz

.172 Hz

.381 Hz

.830 Hz

1.719 Hz

2.930 Hz

4.883 Hz

16.602 Hz

34.375 Hz

Client:

Remote: none

Acquired: 10:2 Aug 03, 2000

Survey Co:USGS

Rotation:

Filename: hr103all.avg

Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch3 Ch4

Plotted: 15:28 Jan 24, 2001

< EMI - ElectroMagnetic Instruments >

TIPPER MAGNITUDE

Crescent Valley, NV 100K

Client:
Remote: none
Acquired: 10:2 Aug 03, 2000
Survey Co:USGS

Rotation:
Filename: hr103all.avg
Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch3 Ch4
Plotted: 15:28 Jan 24, 2001
< EMI - ElectroMagnetic Instruments >

TIPPER STRIKE

Crescent Valley, NV 100K

Client:
Remote: none
Acquired: 10:2 Aug 03, 2000
Survey Co:USGS

Rotation:
Filename: hr103all.avg
Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch3 Ch4
Plotted: 15:28 Jan 24, 2001
< EMI - ElectroMagnetic Instruments >

HzHx.x Coh HzHy.o

Crescent Valley, NV 100K

Client:
Remote: none
Acquired: 10:2 Aug 03, 2000
Survey Co:USGS

Rotation:
Filename: hr103all.avg
Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch3 Ch4
Plotted: 15:28 Jan 24, 2001
< EMI - ElectroMagnetic Instruments >

APPARENT RESISTIVITY

Elko, NV 100K

Client:
 Remote: none
 Acquired: 14:4 Aug 03, 2000
 Survey Co:USGS

Rotation:
 Filename: hr104all.avg
 Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch3 Ch4
 Plotted: 15:28 Jan 24, 2001
 < EMI - ElectroMagnetic Instruments >

Station 104

IMPEDANCE PHASE

Elko, NV 100K

Client:
Remote: none
Acquired: 14:4 Aug 03, 2000
Survey Co:USGS

Rotation:
Filename: hr104all.avg
Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch3 Ch4
Plotted: 15:28 Jan 24, 2001
< EMI - ElectroMagnetic Instruments >

ROTATION ANGLE

Elko, NV 100K

Client:
Remote: none
Acquired: 14:4 Aug 03, 2000
Survey Co:USGS

Rotation:
Filename: hr104all.avg
Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch3 Ch4
Plotted: 15:28 Jan 24, 2001
< EMI - ElectroMagnetic Instruments >

IMPEDANCE SKEW

Elko, NV 100K

Client:
Remote: none
Acquired: 14:4 Aug 03, 2000
Survey Co:USGS

Rotation:
Filename: hr104all.avg
Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch3 Ch4
Plotted: 15:28 Jan 24, 2001
< EMI - ElectroMagnetic Instruments >

E MULT Coh.

Elko, NV 100K

Client:
Remote: none
Acquired: 14:4 Aug 03, 2000
Survey Co:USGS

Rotation:
Filename: hr104all.avg
Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch3 Ch4
Plotted: 15:28 Jan 24, 2001
< EMI - ElectroMagnetic Instruments >

POLAR PLOTS

Elko, NV 100K

Client:
 Remote: none
 Acquired: 14:4 Aug 03, 2000
 Survey Co:USGS

Rotation:
 Filename: hr104all.avg
 Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch3 Ch4
 Plotted: 15:28 Jan 24, 2001
 < EMI - ElectroMagnetic Instruments >

TIPPER MAGNITUDE

Elko, NV 100K

Client:
Remote: none
Acquired: 14:4 Aug 03, 2000
Survey Co:USGS

Rotation:
Filename: hr104all.avg
Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch3 Ch4
Plotted: 15:28 Jan 24, 2001
< EMI - ElectroMagnetic Instruments >

Station 104

TIPPER STRIKE

Elko, NV 100K

Client:
Remote: none
Acquired: 14:4 Aug 03, 2000
Survey Co:USGS

Rotation:
Filename: hr104all.avg
Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch3 Ch4
Plotted: 15:28 Jan 24, 2001
< EMI - ElectroMagnetic Instruments >

HzHx.x Coh HzHy.o

Elko, NV 100K

Client:
Remote: none
Acquired: 14:4 Aug 03, 2000
Survey Co:USGS

Rotation:
Filename: hr104all.avg
Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch3 Ch4
Plotted: 15:28 Jan 24, 2001
< EMI - ElectroMagnetic Instruments >

APPARENT RESISTIVITY

Indian Creek, Shoshone Mts.

Client:
Remote: E local ref.
Acquired: 11:1 Jul 19, 1997
Survey Co:

Rotation:
Filename: nn30all.all
Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6 Ch7
Plotted: 08:46 Dec 08, 2000
< EMI - ElectroMagnetic Instruments >

IMPEDANCE PHASE

Indian Creek, Shoshone Mts.

Client:
Remote: E local ref.
Acquired: 11:1 Jul 19, 1997
Survey Co:

Rotation:
Filename: nn30all.all
Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6 Ch7
Plotted: 10:50 Jan 25, 2001
< EMI - ElectroMagnetic Instruments >

Station 30

ROTATION ANGLE

Indian Creek, Shoshone Mts.

Client:
Remote: E local ref.
Acquired: 11:1 Jul 19, 1997
Survey Co:

Rotation:
Filename: nn30all.all
Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6 Ch7
Plotted: 08:46 Dec 08, 2000
< EMI - ElectroMagnetic Instruments >

Station 30

IMPEDANCE SKEW

Indian Creek, Shoshone Mts.

Client:
Remote: E local ref.
Acquired: 11:1 Jul 19, 1997
Survey Co:

Rotation:
Filename: nn30all.all
Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6 Ch7
Plotted: 08:46 Dec 08, 2000
< EMI - ElectroMagnetic Instruments >

Station 30

E MULT Coh.

Indian Creek, Shoshone Mts.

Client:

Remote: E local ref.

Acquired: 11:1 Jul 19, 1997

Survey Co:

Rotation:

Filename: nn30all.all

Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6 Ch7

Plotted: 08:46 Dec 08, 2000

< EMI - ElectroMagnetic Instruments >

POLAR PLOTS

Indian Creek, Shoshone Mts.

.176 Hz
2.402 Hz
19.043 Hz

.293 Hz
4.394 Hz
41.504 Hz

.762 Hz
6.894 Hz
60.059 Hz

1.660 Hz
7.324 Hz
122 Hz

Client:
Remote: E local ref.
Acquired: 11:1 Jul 19, 1997
Survey Co:

Rotation:
Filename: nn30all.all
Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6 Ch7
Plotted: 08:46 Dec 08, 2000
< EMI - ElectroMagnetic Instruments >

Station 30

TIPPER MAGNITUDE

Indian Creek, Shoshone Mts.

Client:
Remote: E local ref.
Acquired: 11:1 Jul 19, 1997
Survey Co:

Rotation:
Filename: nn30all.all
Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6 Ch7
Plotted: 08:46 Dec 08, 2000
< EMI - ElectroMagnetic Instruments >

TIPPER STRIKE

Indian Creek, Shoshone Mts.

Client:
Remote: E local ref.
Acquired: 11:1 Jul 19, 1997
Survey Co:

Rotation:
Filename: nn30all.all
Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6 Ch7
Plotted: 08:46 Dec 08, 2000
< EMI - ElectroMagnetic Instruments >

HzHx.x Coh HzHy.o

Indian Creek, Shoshone Mts.

Client:
Remote: E local ref.
Acquired: 11:1 Jul 19, 1997
Survey Co:

Rotation:
Filename: nn30all.all
Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6 Ch7
Plotted: 08:46 Dec 08, 2000
< EMI - ElectroMagnetic Instruments >

APPARENT RESISTIVITY

Indian Creek, Shoshone Mts.

Client:
 Remote: E local ref.
 Acquired: 18:2 Jul 19, 1997
 Survey Co:

Rotation:
 Filename: nn31.all
 Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6 Ch7
 Plotted: 08:47 Dec 08, 2000
 < EMI - ElectroMagnetic Instruments >

IMPEDANCE PHASE

Indian Creek, Shoshone Mts.

Client:
Remote: E local ref.
Acquired: 18:2 Jul 19, 1997
Survey Co:

Rotation:
Filename: nn31.all
Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6 Ch7
Plotted: 08:47 Dec 08, 2000
< EMI - ElectroMagnetic Instruments >

ROTATION ANGLE

Indian Creek, Shoshone Mts.

Client:
Remote: E local ref.
Acquired: 18:2 Jul 19, 1997
Survey Co:

Rotation:
Filename: nn31.all
Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6 Ch7
Plotted: 08:47 Dec 08, 2000
< EMI - ElectroMagnetic Instruments >

Station 31

IMPEDANCE SKEW

Indian Creek, Shoshone Mts.

Client:
Remote: E local ref.
Acquired: 18:2 Jul 19, 1997
Survey Co:

Rotation:
Filename: nn31.all
Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6 Ch7
Plotted: 08:47 Dec 08, 2000
< EMI - ElectroMagnetic Instruments >

E MULT Coh.

Indian Creek, Shoshone Mts.

Client:
Remote: E local ref.
Acquired: 18:2 Jul 19, 1997
Survey Co:

Rotation:
Filename: nn31.all
Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6 Ch7
Plotted: 08:47 Dec 08, 2000
< EMI - ElectroMagnetic Instruments >

POLAR PLOTS

Indian Creek, Shoshone Mts.

Client:

Remote: E local ref.

Acquired: 18:2 Jul 19, 1997

Survey Co:

Rotation:

Filename: nn31.all

Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6 Ch7

Plotted: 08:47 Dec 08, 2000

< EMI - ElectroMagnetic Instruments >

TIPPER MAGNITUDE

Indian Creek, Shoshone Mts.

Client:
Remote: E local ref.
Acquired: 18:2 Jul 19, 1997
Survey Co:

Rotation:
Filename: nn31.all
Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6 Ch7
Plotted: 08:47 Dec 08, 2000
< EMI - ElectroMagnetic Instruments >

Station 31

TIPPER STRIKE

Indian Creek, Shoshone Mts.

Client:
Remote: E local ref.
Acquired: 18:2 Jul 19, 1997
Survey Co:

Rotation:
Filename: nn31.all
Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6 Ch7
Plotted: 08:47 Dec 08, 2000
< EMI - ElectroMagnetic Instruments >

HzHx.x Coh HzHy.o

Indian Creek, Shoshone Mts.

Client:
Remote: E local ref.
Acquired: 18:2 Jul 19, 1997
Survey Co:

Rotation:
Filename: nn31.all
Channels: Ch1 Ch2 Ch3 Ch4 Ch5 Ch6 Ch7
Plotted: 08:47 Dec 08, 2000
< EMI - ElectroMagnetic Instruments >

APPARENT RESISTIVITY

...Indian Creek...

Client:
Remote: E local ref.
Acquired: 15:1 Jul 22, 1997
Survey Co:

Rotation:
Filename: nn35.all
Channels: Ch6 Ch7 Ch8 Ch9 Ch10Ch1 Ch2
Plotted: 08:48 Dec 08, 2000
< EMI - ElectroMagnetic Instruments >

IMPEDANCE PHASE

...Indian Creek...

Client:
Remote: E local ref.
Acquired: 15:1 Jul 22, 1997
Survey Co:

Rotation:
Filename: nn35.all
Channels: Ch6 Ch7 Ch8 Ch9 Ch10Ch1 Ch2
Plotted: 08:48 Dec 08, 2000
< EMI - ElectroMagnetic Instruments >

ROTATION ANGLE

...Indian Creek...

Client:
Remote: E local ref.
Acquired: 15:1 Jul 22, 1997
Survey Co:

Rotation:
Filename: nn35.all
Channels: Ch6 Ch7 Ch8 Ch9 Ch10Ch1 Ch2
Plotted: 08:48 Dec 08, 2000
< EMI - ElectroMagnetic Instruments >

Station 35

IMPEDANCE SKEW

...Indian Creek...

Client:
Remote: E local ref.
Acquired: 15:1 Jul 22, 1997
Survey Co:

Rotation:
Filename: nn35.all
Channels: Ch6 Ch7 Ch8 Ch9 Ch10Ch1 Ch2
Plotted: 08:48 Dec 08, 2000
< EMI - ElectroMagnetic Instruments >

E MULT Coh.

...Indian Creek...

Client:
Remote: E local ref.
Acquired: 15:1 Jul 22, 1997
Survey Co:

Rotation:
Filename: nn35.all
Channels: Ch6 Ch7 Ch8 Ch9 Ch10Ch1 Ch2
Plotted: 08:48 Dec 08, 2000
< EMI - ElectroMagnetic Instruments >

POLAR PLOTS

...Indian Creek...

Client:

Remote: E local ref.

Acquired: 15:1 Jul 22, 1997

Survey Co:

Rotation:

Filename: nn35.all

Channels: Ch6 Ch7 Ch8 Ch9 Ch10Ch1 Ch2

Plotted: 08:48 Dec 08, 2000

< EMI - ElectroMagnetic Instruments >

TIPPER MAGNITUDE

...Indian Creek...

Client:
Remote: E local ref.
Acquired: 15:1 Jul 22, 1997
Survey Co:

Rotation:
Filename: nn35.all
Channels: Ch6 Ch7 Ch8 Ch9 Ch10Ch1 Ch2
Plotted: 08:48 Dec 08, 2000
< EMI - ElectroMagnetic Instruments >

Station 35

TIPPER STRIKE

...Indian Creek...

Client:
Remote: E local ref.
Acquired: 15:1 Jul 22, 1997
Survey Co:

Rotation:
Filename: nn35.all
Channels: Ch6 Ch7 Ch8 Ch9 Ch10Ch1 Ch2
Plotted: 08:48 Dec 08, 2000
< EMI - ElectroMagnetic Instruments >

Client:
Remote: E local ref.
Acquired: 15:1 Jul 22, 1997
Survey Co:

Rotation:
Filename: nn35.all
Channels: Ch6 Ch7 Ch8 Ch9 Ch10Ch1 Ch2
Plotted: 08:48 Dec 08, 2000
< EMI - ElectroMagnetic Instruments >