# APPENDIX V

# SP SURVEY

# DESCRIPTION AND DATA

# SELF POTENTIAL DATA ACQUISITION

## JAMAICA

for

## BHP MINERALS

AUGUST 1994

# DAILY ACTIVITY REPORT

## SELF POTENTIAL (SP) SURVEYS

## JAMAICA

**Wednesday-August 10, 1994**

Depart Santa Domingo at 07:30, arrive Kingston, Jamaica at 12:00. meet BHP geologist Bruce Laird at airport. Prepare new copper sulfate solutions for porous pots and bath at 14:00. Prepare survey program and assemble field equipment. Stay at BHP apartment in Kingston.

**Thursday-August 11, 1994**

Depart Kingston 06:30 with BHP geologist Darrell Turcotte. Begin SP survey over Bull Snap prospect at 09:45 after delay getting to field due to overturned truck blocking highway. Survey 50-meter stations (101-147) along drill road, trails and tracks. Experience difficulties locating some stations due to power lines, houses, junk and garbage around some of area. There is most likely some error in readings on first part of line due to these cultural objects. Return Kingston 18:00.

**Friday-August 12, 1994**

Depart Kingston 06:30. Continue data acquisition in Bull Snap Prospect. Survey along trails, streams and some short cross-country traverses. Complete acquisition in Bull Snap and run tie line to Browns Hall area. Acquire 32 new stations (148-179). Return Kingston 18:00.

**Saturday-August 13, 1994**

Depart Kingston 06:00. Continue tie line to soil sample line 105 in Browns Hall area. Survey

## INTRODUCTION

During the period of August 2 to August 16, 1994, Self Potential or Spontaneous Potential (SP) surveys were conducted over mineral prospects in the Dominican Republic and Jamaica. Quantech Consulting Inc. supplied an operator, Chris Magee, to acquire SP data at the request of BHP Minerals. The SP surveys were located over the Rio Dominica prospect in the Dominican Republic and over the Bull Snap and Browns Hall prospects in Jamaica.

## EQUIPMENT

The equipment used to acquire these data consists mainly of a Fluke digital multimeter, approximately 10,000 feet of 22-gauge wire, and several porous pots that serve as electrodes. The wire was divided into three pieces on reels and two hand-reels were supplied to deploy and recover the wire. Six porous pots with a copper-copper sulfate solution were used to make electrical contact with the soil at each survey station.

BHP supplied chain and compass surveying performed by geologists Sue Purvis in the D.R. and Darrell Turcotte in Jamaica. Tools and labor for porous pot hole preparation and assistance with reeling in wire were supplied as well. Support vehicles for transport to and from the survey area were also supplied by BHP.

## PROCEDURES

Copper sulfate solutions were prepared at least 18 hours before any data acquisition was performed. A saturated solution of copper sulfate and water was added to each porous pot. A copper sulfate bath was also prepared in a small cooler for porous pot storage and transport.

At the beginning and end of each day the voltage between each porous pot was measured and recorded. The difference in voltage between any two pots from the start of the day to the end of the day was considered linear drift and was removed from the days readings as a function of time. The maximum difference in voltage between pots was less than five millivolts.

At each survey area a survey base was selected where the voltage was assumed to be zero and all measurements were referenced to this base. Attempts were made to locate the survey bases outside the area of interest or potential sulfide zone locations. On the Dominican Republic survey, the survey base was first located outside the specific area of interest but then moved inside to a more central location. This was done because the line run into the area connecting the survey base was suspected to be in error after numerous wire breaks and readings at several locations that did not repeat well.

After operating for two days using up to three kilometers of deployed wire and experiencing many wire breaks, it was decided to establish more base pot locations and operate with a maximum of one kilometer of wire. This proved to be a more productive procedure and was used for the remainder of the survey.

At base pot locations, the porous pot was placed in a hole about 25 centimeters deep were there

was some dampness in the soil. Soil was placed around the pot and the hole was covered with a piece of wood and soil. At other stations, a 15 to 25 centimeter hole was dug in attempt to reach damp soil. The required depth varied widely especially in the D.R. where conditions changed quickly from being very dry to fairly wet after two days with heavy rain. In Jamaica, it did not rain in the survey area during the duration of the project and the soil conditions were generally more consistent and damp soil was reached at a shallower depth.

At each station, the station ID, time of the reading, normal voltage, reverse voltage, resistance and pertinent remarks were recorded in a field book. The normal voltage is the reading in millivolts with the convention of the positive multimeter lead connected to the rover pot and the negative lead connected to the base pot through the take out on the wire reel. The reverse reading is obtained by switching the leads. The resistance in kilo-ohms was measured as well with the leads configured the same as the normal voltage.

Base pot locations were established as required, usually after one reel (about one kilometer) of wire was deployed. each base pot location was first occupied with a rover pot connected to a pre-existing base pot location. The (drift-corrected) value recorded with the rover pot is then used to correct each subsequent reading taken with the base pot located at the new base pot location.

## DATA REDUCTION

Data reduction was performed using LOTUS 123 spreadsheets. Field notes including station identifier, time, normal voltage, reverse voltage and resistance were entered. Corrections to the normal voltage were made for drift and the appropriate base pot value as an offset value from the master survey base where the voltage is assumed to be zero.

In the D.R., two SP profiles were prepared with LOTUS that were roughly straight lines across the property. A map was not prepared as the plotted station locations were not available at the time of departure. In Jamaica, the station locations and SP values were plotted at a scale of 1:5,000 that overlays the area base map.

Some of the data acquired in the D.R. was suspected to be in error so the values used in the preparation of profiles were those deemed to be the least suspect in the opinion of the operator. Some of the repeated values were obtained during periods of thunderstorms and there was a strong possibility of wire leakage during days with many wire breaks.

Printouts of the spreadsheets of SP reduced data are attached. A summary of daily activities are also included.

Christopher Magee

soil line 105 over to Old Wood hall road, follow back toward tie line. Acquire 54 stations (180-233). Return Kingston 18:00.

**Sunday-August 14, 1994**

Enter and plot all data acquired to date in early morning. Discuss results with Bruce Laird and decide to complete traverse along Old Wood Hall road and survey one more soil line if time allows as no interesting features are identified with the SP data. Depart Kingston 08:15, complete road traverse (234-268) at 15:15, too late to start new line. Return Kingston 16:30. Enter today's data on spreadsheet.

**Monday-August 15, 1994**

Complete plotting SP data over Browns Hall prospect area. Prepare logs and acquisition report. Prepare and pack equipment.

**Tuesday-August 16, 1994**

Depart Kingston 07:00, arrive Denver 15:30.

SP SURVEY DATA
AUGUST 1994

JAMAICA

SURVEY BASE = STATION 101

AUGUST 11, 1994

BASE – ROVER POT DRIFT VOLTAGES

| | | pos – neg | neg – pos | | |
|---|---|---|---|---|---|
| 9:18 | # 1 to # 2 | –0.2 | 0.3 | POT # 2 to POT # 1 DRIFT | –0.16717 mV/hr |
| | #2 to # 3 | 2.6 | –2.6 | POT # 2 to POT # 3 DRIFT | –0.06079 mV/hr |
| | # 1 to # 3 | 2.5 | –2.4 | | |
| 15:53 | # 1 to # 2 | 0.8 | –0.8 | | |
| | #2 to # 3 | 2.2 | –2.1 | | |
| | # 1 to # 3 | 3.1 | –2.9 | | |

BASE POT # 1 @ STATION 101 ABSOLUTE VOLTAGE = 0.0 mV

| STATION | TIME hh.mm | TIME hh.hh | NORMAL mV | REVERSE mV | RESISTANCE K–ohms | DRIFT COR. mV | BASE COR. mV | ABS. VOLT. mV |
|---|---|---|---|---|---|---|---|---|
| 102 | 9.42 | 9.70 | 0.1 | 0.0 | 1.6 | 0.1 | 0.0 | 0.2 |
| 103 | 9.51 | 9.85 | –0.5 | 1.0 | 1.2 | 0.1 | 0.0 | –0.4 |
| 104 | 9.58 | 9.97 | –5.0 | 5.2 | 2.6 | 0.1 | 0.0 | –4.9 |
| 105 | 10.05 | 10.08 | –0.9 | 0.0 | 2.6 | 0.1 | 0.0 | –0.8 |
| 106 | 10.10 | 10.17 | 7.6 | –6.9 | 1.8 | 0.1 | 0.0 | 7.7 |
| 107 | 10.17 | 10.28 | 7.7 | –7.6 | 3.7 | 0.2 | 0.0 | 7.9 |
| 108 | 10.24 | 10.40 | 1.5 | –1.6 | 1.4 | 0.2 | 0.0 | 1.7 |
| 109 | 10.29 | 10.48 | 2.5 | –2.6 | 1.1 | 0.2 | 0.0 | 2.7 |
| 110 | 10.34 | 10.57 | 2.3 | –0.9 | 1.6 | 0.2 | 0.0 | 2.5 |
| 111 | 10.38 | 10.63 | 4.4 | –4.4 | 1.5 | 0.2 | 0.0 | 4.6 |
| 112 | 10.47 | 10.78 | 8.0 | –7.7 | 2.2 | 0.2 | 0.0 | 8.2 |
| 113 | 10.55 | 10.92 | 7.5 | –7.0 | 4.7 | 0.3 | 0.0 | 7.8 |
| 114 | 11.03 | 11.05 | 2.6 | –1.5 | 1.3 | 0.3 | 0.0 | 2.9 |
| 115 | 11.09 | 11.15 | 5.1 | –5.2 | 1.3 | 0.3 | 0.0 | 5.4 |
| 116 | 11.12 | 11.20 | –0.7 | 1.1 | 1.7 | 0.3 | 0.0 | –0.4 |
| 117 | 11.16 | 11.27 | –7.9 | 7.8 | 1.8 | 0.3 | 0.0 | –7.6 |
| 118 | 11.25 | 11.42 | 4.1 | –3.9 | 1.9 | 0.4 | 0.0 | 4.5 |

BASE POT # 3 @ STATION 118 ABSOLUTE VOLTAGE = 4.5 mV

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 119 | 11.45 | 11.75 | –2.9 | 3.0 | 2.5 | 0.1 | 4.5 | 1.7 |
| 120 | 11.50 | 11.83 | 3.3 | –3.1 | 2 | 0.2 | 4.5 | 8.0 |
| 121 | 11.55 | 11.92 | 3.2 | –2.2 | 2.7 | 0.2 | 4.5 | 7.9 |
| 122 | 11.59 | 11.98 | 4.4 | –4.2 | 1.9 | 0.2 | 4.5 | 9.1 |
| 123 | 12.04 | 12.07 | 1.9 | –1.8 | 2.4 | 0.2 | 4.5 | 6.6 |
| 124 | 12.16 | 12.27 | 8.4 | –8.3 | 2.1 | 0.2 | 4.5 | 13.1 |
| 125 | 12.19 | 12.32 | 8.3 | –8.1 | 2.6 | 0.2 | 4.5 | 13.0 |
| 126 | 12.24 | 12.40 | 16.2 | –15.9 | 2.4 | 0.2 | 4.5 | 20.9 |
| 127 | 12.28 | 12.47 | 5.8 | –5.7 | 2 | 0.2 | 4.5 | 10.5 |
| 128 | 12.39 | 12.65 | 3.3 | –3.6 | 1.9 | 0.2 | 4.5 | 8.0 |
| 128 | 12.47 | 12.78 | 8.0 | –7.7 | 2.4 | 0.2 | 4.5 | 12.7 |
| 129 | 12.52 | 12.87 | 7.2 | –6.8 | 1.7 | 0.2 | 4.5 | 11.9 |
| 130 | 12.56 | 12.93 | 10.1 | –9.9 | 2.4 | 0.2 | 4.5 | 14.8 |
| 131 | 13.01 | 13.02 | 13.2 | –13.1 | 1.7 | 0.2 | 4.5 | 17.9 |
| 132 | 13.08 | 13.13 | 7.2 | –6.9 | 2.7 | 0.2 | 4.5 | 11.9 |
| 133 | 13.11 | 13.18 | 6.8 | –6.8 | 2.6 | 0.2 | 4.5 | 11.5 |
| 134 | 13.15 | 13.25 | 8.7 | –8.3 | 2.2 | 0.2 | 4.5 | 13.4 |
| 135 | 13.20 | 13.33 | 9.2 | –8.7 | 2.2 | 0.2 | 4.5 | 13.9 |
| 136 | 13.29 | 13.48 | 14.6 | –14.8 | 9.4 | 0.3 | 4.5 | 19.4 |
| 137 | 13.43 | 13.72 | 19.4 | –19.3 | 8.2 | 0.3 | 4.5 | 24.2 |
| 138 | 13.51 | 13.85 | 10.1 | –9.6 | 2 | 0.3 | 4.5 | 14.9 |
| 139 | 13.58 | 13.97 | 1.3 | –1.0 | 1.5 | 0.3 | 4.5 | 6.1 |
| 140 | 14.05 | 14.08 | –5.7 | 5.9 | 1.7 | 0.3 | 4.5 | –0.9 |
| 141 | 14.11 | 14.18 | 0.1 | 0.0 | 1.7 | 0.3 | 4.5 | 4.9 |
| 117 | 14.19 | 14.32 | –8.8 | 9 | 2.1 | 0.3 | 4.5 | –4.0 |
| 113 | 14.54 | 14.90 | 1.4 | –0.6 | 2.7 | 0.3 | 4.5 | 6.2 |
| 142 | 14.58 | 14.97 | –6.1 | 6.3 | 2.2 | 0.3 | 4.5 | –1.3 |
| 143 | 15.05 | 15.08 | –8.1 | 7.0 | 2.8 | 0.4 | 4.5 | –3.2 |
| 144 | 15.09 | 15.15 | –7.7 | 7.7 | 1.7 | 0.4 | 4.5 | –2.8 |
| 145 | 15.13 | 15.22 | –5.7 | 5.9 | 1.5 | 0.4 | 4.5 | –0.8 |
| 146 | 15.18 | 15.30 | –4.1 | 4.7 | 2 | 0.4 | 4.5 | 0.8 |
| 147 | 15.22 | 15.37 | 1.0 | –0.4 | 1.9 | 0.4 | 4.5 | 5.9 |

SP SURVEY DATA
AUGUST 1994

JAMAICA

SURVEY BASE = STATION 101

AUGUST 12, 1994

BASE – ROVER POT DRIFT VOLTAGES

| | | pos – neg | neg – pos |
|---|---|---|---|
| 8.34 | # 1 to # 2 | 0.0 | 0.2 |
| | #2 to # 3 | 1.3 | –1.2 |
| | # 1 to # 3 | 1.0 | –0.9 |
| 15:39 | # 1 to # 2 | –0.4 | 0.4 |
| | #2 to # 3 | 1.8 | –1.7 |
| | # 1 to # 3 | 1.3 | –1.3 |

POT # 2 to POT # 1 DRIFT +0.02825 mV/hr
POT # 2 to POT # 3 DRIFT +0.07062 mV/hr

BASE POT # 1 @ STATION 109 ABSOLUTE VOLTAGE = 2.7 mV

| STATION | TIME hh.mm | TIME hh.hh | NORMAL mV | REVERSE mV | RESISTANCE K–ohms | DRIFT COR. mV | BASE COR. mV | ABS. VOLT. mV |
|---|---|---|---|---|---|---|---|---|
| 148 | 8.55 | 8.92 | 2.2 | –1.9 | 1.4 | –0.0 | 2.7 | 4.9 |
| 149 | 9.01 | 9.02 | 1.6 | –1.4 | 1.1 | –0.0 | 2.7 | 4.3 |
| 150 | 9.08 | 9.13 | 7.2 | –6.5 | 1.5 | –0.0 | 2.7 | 9.9 |
| 151 | 9.14 | 9.23 | 6 | –6.9 | 1.7 | –0.0 | 2.7 | 8.7 |
| 152 | 9.20 | 9.33 | 15.6 | –13.9 | 1.6 | –0.0 | 2.7 | 18.3 |
| 153 | 9.25 | 9.42 | 12.9 | –13 | 1.5 | –0.0 | 2.7 | 15.6 |
| 154 | 9.42 | 9.70 | 9.8 | –9.5 | 2.4 | –0.0 | 2.7 | 12.5 |
| 155 | 9.51 | 9.85 | 13.4 | –16.2 | 1.7 | –0.0 | 2.7 | 16.1 |
| 156 | 10.00 | 10.00 | 8.7 | –7.4 | 1.1 | –0.0 | 2.7 | 11.4 |
| 142 | 10.06 | 10.10 | 0.6 | –0.5 | 1.2 | –0.0 | 2.7 | 3.3 |
| BASE POT # 1 @ STATION 118 ABSOLUTE VOLTAGE = 4.5 mV | | | | | | | | |
| 157 | 10.36 | 10.60 | –5.2 | 5.5 | 1.1 | –0.1 | 4.5 | –0.8 |
| 158 | 10.41 | 10.68 | –0.5 | 1.6 | 1.0 | –0.1 | 4.5 | 3.9 |
| 159 | 10.53 | 10.88 | 11.3 | –10.0 | 2.2 | –0.1 | 4.5 | 15.7 |
| 160 | 11.03 | 11.05 | 0.7 | –1.0 | 2.0 | –0.1 | 4.5 | 5.1 |
| 161 | 11.11 | 11.18 | –7.5 | 7.9 | 1.4 | –0.1 | 4.5 | –3.1 |
| 162 | 11.33 | 11.55 | –4.9 | 5.0 | 1.8 | –0.1 | 4.5 | –0.5 |
| 163 | 11.38 | 11.63 | 2.0 | –1.8 | 1.6 | –0.1 | 4.5 | 6.4 |
| 164 | 11.43 | 11.72 | –1.8 | 2.2 | 1.2 | –0.1 | 4.5 | 2.6 |
| 165 | 11.49 | 11.82 | 2.5 | –2.0 | 1.5 | –0.1 | 4.5 | 6.9 |
| 122 | 11.53 | 11.88 | 1.5 | –1.2 | 1.3 | –0.1 | 4.5 | 5.9 |
| 166 | 12.39 | 12.65 | 6.7 | –7.2 | 7.6 | –0.1 | 4.5 | 11.1 |
| 167 | 12.43 | 12.72 | –16.4 | 17.0 | 2.7 | –0.1 | 4.5 | –12.0 |
| 168 | 12.49 | 12.82 | –5.2 | 6.0 | 2.3 | –0.1 | 4.5 | –0.8 |
| 169 | 12.52 | 12.87 | –6.2 | 6.3 | 1.1 | –0.1 | 4.5 | –1.8 |
| 170 | 12.57 | 12.95 | –10.5 | 11.4 | 2.0 | –0.1 | 4.5 | –6.1 |
| BASE POT # 1 @ STATION 101 ABSOLUTE VOLTAGE = 0.0 mV | | | | | | | | |
| 171 | 14.12 | 14.20 | 10.3 | –10.4 | 1.7 | –0.2 | 0.0 | 10.1 |
| 172 | 14.19 | 14.32 | 29.2 | –27.2 | 2.6 | –0.2 | 0.0 | 29.0 |
| 173 | 14.32 | 14.53 | –37.6 | 37.7 | 1.6 | –0.2 | 0.0 | –37.8 |
| BASE POT # 3 @ 173 ABSOLUTE VOLTAGE = –37.8 mV | | | | | | | | |
| 174 | 14.44 | 14.73 | –2.9 | 3.3 | 2.8 | –0.4 | –37.8 | –41.1 |
| 175 | 14.51 | 14.85 | 19.4 | –19.4 | 6.8 | –0.4 | –37.8 | –18.8 |
| 176 | 14.59 | 14.98 | 2.9 | –1.4 | 4.1 | –0.5 | –37.8 | –35.4 |
| 177 | 15.04 | 15.07 | 19.9 | –19.6 | 3.4 | –0.5 | –37.8 | –18.4 |
| 178 | 15.09 | 15.15 | 19.5 | –18.9 | 3.5 | –0.5 | –37.8 | –18.8 |
| 179 | 15.17 | 15.28 | 24.5 | –24.6 | 6.5 | –0.5 | –37.8 | –13.8 |

SP SURVEY DATA JAMAICA
AUGUST 1994

SURVEY BASE = STATION 101

AUGUST 13, 1994

BASE - ROVER POT DRIFT VOLTAGES

| | | pos - neg | neg - pos |
|---|---|---|---|
| 8:29 | # 1 to # 2 | 0.0 | 0.1 |
| | #2 to # 3 | 0.0 | 0 |
| | # 1 to # 3 | 0.0 | 0.3 |
| 16:09 | # 1 to # 2 | 0.0 | 0.8 |
| | #2 to # 3 | 0.0 | 0 |
| | # 1 to # 3 | -0.4 | 0.8 |

POT # 2 to POT # 1 DRIFT +0.09126 mV/hr
POT # 2 to POT # 3 DRIFT +0.0 mV/hr

BASE POT # 1 @ STATION 179 ABSOLUTE VOLTAGE = -13.8 mV

| STATION | TIME hh.mm | TIME hh.hh | NORMAL mV | REVERSE mV | RESISTANCE K-ohms | DRIFT COR. mV | BASE COR. mV | ABS. VOLT. mV |
|---|---|---|---|---|---|---|---|---|
| 180 | 8.42 | 8.70 | 1.4 | -1.0 | 2.6 | -0.0 | -13.8 | -12.4 |
| 181 | 8.46 | 8.77 | -2.0 | 4.1 | 2.0 | -0.0 | -13.8 | -15.8 |
| 182 | 8.50 | 8.83 | -3.9 | 4.9 | 2.2 | -0.0 | -13.8 | -17.7 |
| 183 | 8.54 | 8.90 | -5.2 | 4.3 | 2.0 | -0.0 | -13.8 | -19.0 |
| 184 | 9.00 | 9.00 | -14.8 | 15.1 | 2.4 | -0.0 | -13.8 | -28.6 |
| 185 | 9.07 | 9.12 | -11.1 | 10.9 | 2.2 | -0.1 | -13.8 | -25.0 |
| 186 | 9.12 | 9.20 | -12.5 | 13.0 | 2.9 | -0.1 | -13.8 | -26.4 |
| 187 | 9.16 | 9.27 | -12.7 | 10.4 | 3.1 | -0.1 | -13.8 | -26.6 |
| 188 | 9.22 | 9.37 | -6.6 | 5.5 | 2.0 | -0.1 | -13.8 | -20.7 |
| 189 | 9.26 | 9.47 | -8.1 | 8.8 | 2.8 | -0.1 | -13.8 | -22.0 |
| 190 | 9.36 | 9.60 | 6.5 | -6.2 | 2.3 | -0.1 | -13.8 | -7.4 |
| 191 | 9.53 | 9.88 | 4.4 | -3.3 | 2.4 | -0.1 | -13.8 | -9.5 |
| 192 | 10.01 | 10.02 | 9.7 | -11.1 | 2.2 | -0.1 | -13.8 | -4.2 |
| 193 | 10.46 | 10.77 | 7.7 | 8.3 | 3.1 | -0.2 | -13.8 | -6.3 |
| 194 | 10.55 | 10.92 | -2.6 | 2.7 | 3.0 | -0.2 | -13.8 | -16.6 |
| 195 | 11.01 | 11.02 | 8.5 | -9.6 | 2.5 | -0.2 | -13.8 | -5.5 |
| 196 | 11.09 | 11.15 | -3.2 | 4.2 | 2.8 | -0.2 | -13.8 | -17.2 |
| 197 | 11.20 | 11.33 | -12.6 | 10.6 | 2.3 | -0.3 | -13.8 | -26.7 |

BASE POT # 3 @ STATION 197 ABSOLUTE VOLTAGE = -26.7 mV

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 198 | 11.34 | 11.57 | 3.9 | -3.4 | 2.8 | 0.0 | -26.7 | -22.8 |
| 199 | 11.41 | 11.68 | -1.6 | 1.7 | 2.6 | 0.0 | -26.7 | -28.3 |
| 200 | 11.46 | 11.75 | -1.8 | 2.4 | 2.5 | 0.0 | -26.7 | -28.5 |
| 201 | 11.51 | 11.85 | 1.1 | -0.6 | 2.4 | 0.0 | -26.7 | -25.6 |
| 202 | 11.59 | 11.98 | -4.8 | 4.9 | 2.7 | 0.0 | -26.7 | -31.5 |
| 203 | 12.10 | 12.17 | 0.9 | -0.5 | 6.5 | 0.0 | -26.7 | -25.8 |
| 204 | 12.14 | 12.23 | -6.8 | 7.2 | 5.2 | 0.0 | -26.7 | -33.5 |
| 205 | 12.18 | 12.30 | -7.0 | 6.9 | 1.9 | 0.0 | -26.7 | -33.7 |
| 206 | 12.24 | 12.40 | -1.5 | 2.1 | 3.6 | 0.0 | -26.7 | -28.2 |
| 207 | 12.28 | 12.47 | -4.4 | 4.9 | 1.7 | 0.0 | -26.7 | -31.1 |
| 208 | 12.32 | 12.53 | -2.0 | 2.4 | 1.9 | 0.0 | -26.7 | -28.7 |
| 209 | 12.36 | 12.63 | 1.6 | -0.4 | 2.3 | 0.0 | -26.7 | -25.1 |
| 210 | 13.02 | 13.03 | -4.5 | 5.1 | 2.6 | 0.0 | -26.7 | -31.2 |
| 211 | 13.06 | 13.10 | -2.7 | 2.5 | 2.6 | 0.0 | -26.7 | -29.4 |
| 212 | 13.11 | 13.18 | -6.6 | 5.3 | 2.6 | 0.0 | -26.7 | -33.3 |
| 213 | 13.14 | 13.23 | -4.8 | 6.5 | 1.9 | 0.0 | -26.7 | -31.5 |
| 214 | 13.19 | 13.32 | -5.3 | 4.9 | 8.6 | 0.0 | -26.7 | -32.0 |
| 215 | 13.23 | 13.38 | -0.8 | 1.6 | 1.6 | 0.0 | -26.7 | -27.5 |

BASE POT # 1 @ 215 ABSOLUTE VOLTAGE = -27.5 mV

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 216 | 13.43 | 13.72 | -4.4 | 4.9 | 1.3 | -0.5 | -27.5 | -32.4 |
| 217 | 13.46 | 13.77 | -3.8 | 3.6 | 2.4 | -0.5 | -27.5 | -31.8 |
| 218 | 13.50 | 13.83 | -7.9 | 8.1 | 1.9 | -0.5 | -27.5 | -36.9 |
| 219 | 13.54 | 13.90 | -0.9 | 2.2 | 1.5 | -0.5 | -27.5 | -28.9 |
| 220 | 13.58 | 13.97 | -2.0 | 2.1 | 1.7 | -0.5 | -27.5 | -30.0 |
| 221 | 14.02 | 14.03 | 5.7 | -5.5 | 3.1 | -0.5 | -27.5 | -22.3 |
| 222 | 14.05 | 14.08 | 5.8 | -5.4 | 1.7 | -0.5 | -27.5 | -22.2 |
| 223 | 14.10 | 14.17 | -0.2 | 0.5 | 2.1 | -0.5 | -27.5 | -28.2 |
| 224 | 14.15 | 14.25 | 4.1 | -3.2 | 3.6 | -0.5 | -27.5 | -23.9 |
| 225 | 14.19 | 14.32 | 2.1 | -1.6 | 2.4 | -0.5 | -27.5 | -26.9 |
| 226 | 14.23 | 14.38 | 10.5 | -10.4 | 1.7 | -0.5 | -27.5 | -17.5 |
| 227 | 14.39 | 14.65 | 1.6 | -0.4 | 2.5 | -0.6 | -27.5 | -26.3 |
| 228 | 14.46 | 14.77 | 6.2 | -6.8 | 2.5 | -0.6 | -27.5 | -21.9 |
| 229 | 14.50 | 14.83 | 1.4 | -1.0 | 1.2 | -0.6 | -27.5 | -26.7 |
| 230 | 14.54 | 14.90 | -0.6 | 1.4 | 2.0 | -0.6 | -27.5 | -28.7 |
| 231 | 15.01 | 15.02 | 9.2 | -8.8 | 1.3 | -0.6 | -27.5 | -18.9 |
| 232 | 15.06 | 15.10 | 3.5 | -3.2 | 1.5 | -0.6 | -27.5 | -24.6 |
| 233 | 15.13 | 15.22 | 1.9 | -1.1 | 2.6 | -0.6 | -27.5 | -26.2 |

SP SURVEY DATA
AUGUST 1994

JAMAICA

SURVEY BASE = STATION 101

AUGUST 14, 1994

BASE – ROVER POT DRIFT VOLTAGES

| | | pos – neg | neg – pos |
|---|---|---|---|
| 10:02 | # 1 to # 2 | −0.4 | 0.5 |
| | #2 to # 3 | 0.2 | −0.2 |
| | # 1 to # 3 | −0.3 | 0.3 |
| 15:15 | # 1 to # 2 | 0.7 | −0.4 |
| | #2 to # 3 | 1.1 | −0.4 |
| | # 1 to # 3 | 0.5 | −0.9 |

| | |
|---|---|
| POT # 2 to POT # 1 DRIFT | −0.17241 mV/hr |
| POT # 2 to POT # 3 DRIFT | +0.17241 mV/hr |
| POT # 1 to POT # 2 DRIFT | +0.21073 mV/hr |

BASE POT # 1 @ STATION 179 ABSOLUTE VOLTAGE = −13.8 mV

| STATION | TIME hh.mm | TIME hh.hh | NORMAL mV | REVERSE mV | RESISTANCE K−ohms | DRIFT COR. mV | BASE COR. mV | ABS. VOLT. mV |
|---|---|---|---|---|---|---|---|---|
| 234 | 10.23 | 10.38 | −3.0 | 4.4 | 2.0 | 0.1 | −13.8 | −16.7 |
| 235 | 10.26 | 10.43 | −16.3 | 16.7 | 1.8 | 0.1 | −13.8 | −30.0 |
| 236 | 10.30 | 10.50 | −11.1 | 11.1 | 1.8 | 0.1 | −13.8 | −24.8 |
| 237 | 10.35 | 10.58 | −15.3 | 16.2 | 1.9 | 0.1 | −13.8 | −29.0 |
| 238 | 10.38 | 10.63 | −4.0 | 5.1 | 2.1 | 0.1 | −13.8 | −17.7 |
| 239 | 10.42 | 10.70 | −7.0 | 7.6 | 2.3 | 0.1 | −13.8 | −20.7 |
| 240 | 10.46 | 10.77 | −11.9 | 12.6 | 2.0 | 0.1 | −13.8 | −25.6 |
| 241 | 10.50 | 10.83 | −12.6 | 12.9 | 2.1 | 0.1 | −13.8 | −26.3 |
| 242 | 10.54 | 10.90 | −8.5 | 9.0 | 1.8 | 0.1 | −13.8 | −22.2 |
| 243 | 10.57 | 10.95 | −2.8 | 2.9 | 2.3 | 0.2 | −13.8 | −16.4 |
| 244 | 11.01 | 11.02 | −2.7 | 3.0 | 1.8 | 0.2 | −13.8 | −16.3 |
| 245 | 11.05 | 11.08 | −4.0 | 4.7 | 1.8 | 0.2 | −13.8 | −17.6 |
| 246 | 11.08 | 11.13 | −0.6 | 0.9 | 1.6 | 0.2 | −13.8 | −14.2 |
| 247 | 11.12 | 11.20 | −2.2 | 2.2 | 1.9 | 0.2 | −13.8 | −15.8 |
| 248 | 11.16 | 11.27 | −3.0 | 3.4 | 1.8 | 0.2 | −13.8 | −16.6 |
| 249 | 11.21 | 11.35 | −4.3 | 4.4 | 2.3 | 0.2 | −13.8 | −17.9 |
| 250 | 11.27 | 11.45 | −6.2 | 6.8 | 1.6 | 0.2 | −13.8 | −19.8 |
| 251 | 11.31 | 11.52 | −1.6 | 1.6 | 3.5 | 0.3 | −13.8 | −15.1 |
| BASE POT # 3 @ STATION 251 ABSOLUTE VOLTAGE = −15.1 mV | | | | | | | | |
| 252 | 12.13 | 12.22 | −1.0 | 1.2 | 4.1 | −0.4 | −15.1 | −16.5 |
| 253 | 12.18 | 12.30 | 3.5 | −2.9 | 4.4 | −0.4 | −15.1 | −12.0 |
| 254 | 12.22 | 12.37 | 5.9 | −5.3 | 4.6 | −0.4 | −15.1 | −9.6 |
| 255 | 12.27 | 12.45 | 6.5 | −6.2 | 3.7 | −0.4 | −15.1 | −9.0 |
| 256 | 12.31 | 12.52 | 6.0 | −6.1 | 4.6 | −0.4 | −15.1 | −9.5 |
| 257 | 12.36 | 12.60 | 1.0 | 0.6 | 6.7 | −0.4 | −15.1 | −14.5 |
| 258 | 12.43 | 12.72 | 0.3 | −0.1 | 5.9 | −0.5 | −15.1 | −15.3 |
| 259 | 12.47 | 12.78 | 3.9 | −2.5 | 7.4 | −0.5 | −15.1 | −11.7 |
| 260 | 12.52 | 12.87 | 8.7 | −8.8 | 4.6 | −0.5 | −15.1 | −6.9 |
| 261 | 12.56 | 12.93 | 10.6 | −9.9 | 4.6 | −0.5 | −15.1 | −5.0 |
| 262 | 12.59 | 12.98 | 5.2 | −5.1 | 4.3 | −0.5 | −15.1 | −10.4 |
| 263 | 13.03 | 13.05 | 8.6 | −8.8 | 4.3 | −0.5 | −15.1 | −7.0 |
| 264 | 13.07 | 13.12 | 11.5 | −11.1 | 3.6 | −0.5 | −15.1 | −4.1 |
| 265 | 13.11 | 13.18 | 9.6 | −9.4 | 4.4 | −0.5 | −15.1 | −6.0 |
| 266 | 13.15 | 13.25 | 15.7 | −15.3 | 5.1 | −0.6 | −15.1 | 0.0 |
| 267 | 13.18 | 13.30 | 5.7 | −5.3 | 4.7 | −0.6 | −15.1 | −10.0 |
| 268 | 13.23 | 13.38 | −1.0 | 1.1 | 5.1 | −0.6 | −15.1 | −16.7 |
| BASE POT # 2 @ 268 ABSOLUTE VOLTAGE = −16.7 mV | | | | | | | | |
| 233 | 13.34 | 13.57 | 3.3 | −3.0 | 3.3 | −0.7 | −16.7 | −14.1 |