Acquisition of digital seismograms during the Mammoth Lakes, California, earthquake sequence of May-June 1980

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U. S. Geological Survey
Open-File Report 81-38

This report is preliminary and has not been reviewed for conformity with U. S. Geological Survey editorial standards and stratigraphic nomenclature.
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This report is the first of two open-file reports describing the
collection and preliminary analysis of digital seismograms recorded by the
U.S. Geological Survey during the Mammoth Lakes, California, earthquake
sequence of May-June, 1980. This first report describes the details of data
collection and processing, and contains a summary of data gathered. The
second report, by Mueller et al (1980), contains preliminary locations,
moments, fault plane solutions, and pictures of locatable events.

On May 25, 1980, the region near Mammoth Lakes, California, was shaken by
three earthquakes of $M_L > 6.0$ which occurred at 1633, 1649, and 1944 UTC.
Shortly thereafter the U.S. Geological Survey deployed 12 digital,
three-component seismometers in the Mammoth Lakes area at the locations shown
in figure 1 and listed in table 1. The primary objective of the instrumental
deployment was to record large aftershocks at the closest epicentral ranges
possible in order to augment existing knowledge of possible ground motions at
near-source ranges. Accordingly, several high-gain velocity sensors were
deployed around the periphery of the apparently active area in order to locate
the earthquake activity, and force-balance accelerometers (FBA) were installed
along the traces of known or suspected active faults. The instruments were
the model DR-100 manufactured by the Sprengnether Corporation, and have been
described by Fletcher (1981). The instruments employed either velocity
transducers with a 2 Hz natural period, or force-balance accelerometers.

Periods of operation, instrument polarity, and sensor type for each site are
also listed in table 1. Additional technical information for each station
appears in table 2.
The Mammoth Lakes earthquake sequence lasted several weeks and has been described by McJunkin and Bedrossian (1980) and Uhrhammer and Ferguson (1980). During the first week, and especially during the first few days of the activity, the sequence was very rich in earthquakes above magnitude 4. Event coverage during the first two days of the sequence was consequently rather spotty due to the tendency of the instruments to use all their recording tape long before they could be serviced, and due to the time required to install all the instruments. By May 28 the instruments had been adjusted so that excessive recording tape usage was avoided.

During the three weeks the USGS instruments were deployed, a regular site maintenance schedule was followed. Each site was visited approximately once each day except PS1. Typically, during the visit a portable WWVB radio receiver was used to place a WWVB time signal on the tail of the cassette tape in the DR-100 recorder. If the tape had recorded any events, it was removed and a fresh cassette tape was installed in the recorder, and WWVB time was recorded at the head of the fresh tape. Instrumental gains and, less frequently, trigger ratios were varied if necessary during the visit in order to compensate for daily variations in the level of earthquake activity. Other maintenance, such as battery replacement, tape head cleaning, and sensor replacement was performed when necessary. A log of all cassette tapes describing gains and field notes appears in Appendix A, a concise summary of station gain settings appear in Appendix B, and other instrumental constants appear in table 3.

Once data tapes were removed from the recorders, they were returned to the field headquarters where their contents were examined by playback into a strip chart recorder, which allowed the personnel in the field to measure clock
corrections for the instruments, pick P and S wave arrival times, and monitor earthquake locations and equipment performance.

On days 156 and 157 an attempt was made to record a quarry blast set off near station MIN, causing a disruption of the regular maintenance schedule. Despite the high gain settings used during this period, no blast records were obtained. The instrument at MIN successfully recorded the blast, but no WWVB time was obtained, rendering the record useless.

The DR-100 recorder has an internal clock with a fairly constant, non-zero drift rate. Because of the drift, the clock correction is an approximately linear function of time, and measured clock corrections are given in Appendix C. The clock correction is defined by:

\[
\text{INSTRUMENTAL TIME} + \text{CLOCK CORRECTION} = \text{TRUE TIME}
\]

No clock correction was obtained for PS1 and its internal clock was probably in error by \(\pm 0.5\) s.

Approximately 1500 earthquakes were recorded by the station array. Appendix D lists all recorded event times, and the stations recording each event. In Appendix E can be found a list of all events recorded on three or more stations, sorted by number of stations recording the events. These lists are only about 97% accurate because they are sorted by integer minute. Hence, if an earthquake triggers one instrument at 1450:59 and another instrument at 1451:01, it appears as two separate events in the list. In addition, if a station is triggered more than once in the same minute, only one entry appears in the list.

Four stations were deployed which recorded essentially no usable data. These stations, BEN, MIN, PS2, and UCK, have not been included in any of the summaries appearing in this report, and their locations are given in table 4.
BEN and PS2 recorded no data because of instrument malfunction. UCK recorded one event, but without a time code.

Acknowledgments

We wish to thank the people of Mammoth Lakes, and especially the staff and management of the White Stag Inn and the International Inn, for their hospitality and cooperation with us during our field work. We also would like to thank Roger Sherburne and the California Division of Mines and Geology for their coordinating activities during the initial post-seismic confusion, and Barbara Mavko and Marylynne Vivrette for their logistical assistance.

References

Fletcher, J. B., 1981, A comparison between the tectonic stress measured in situ and stress parameters from seismic waves at Monticello, South Carolina: A site of induced seismicity, to be submitted, JGR.


Table 1: Station locations, polarities, sensor types, and periods of operation.

<table>
<thead>
<tr>
<th>Station</th>
<th>Sensor type</th>
<th>Operating period installed</th>
<th>Operating period recovered</th>
<th>Direction of positive motion</th>
<th>Latitude</th>
<th>Longitude</th>
<th>Altitude (m)</th>
</tr>
</thead>
<tbody>
<tr>
<td>CBR</td>
<td>FBA</td>
<td>5/27</td>
<td>6/13</td>
<td>U</td>
<td>37° 40.75</td>
<td>-118° 49.51</td>
<td>2110</td>
</tr>
<tr>
<td>CON</td>
<td>FBA</td>
<td>5/27</td>
<td>6/13</td>
<td>D</td>
<td>37° 35.38</td>
<td>-118° 51.17</td>
<td>2320</td>
</tr>
<tr>
<td>DMP</td>
<td>VEL</td>
<td>5/29</td>
<td>6/3</td>
<td>U</td>
<td>37° 44.26</td>
<td>-118° 49.54</td>
<td>2110</td>
</tr>
<tr>
<td>FIS</td>
<td>FBA</td>
<td>5/26</td>
<td>6/13</td>
<td>U</td>
<td>37° 36.84</td>
<td>-118° 49.82</td>
<td>2160</td>
</tr>
<tr>
<td>HCF</td>
<td>FBA</td>
<td>5/27</td>
<td>6/13</td>
<td>U</td>
<td>37° 38.51</td>
<td>-118° 50.98</td>
<td>2160</td>
</tr>
<tr>
<td>HOT</td>
<td>VEL</td>
<td>5/26</td>
<td>5/30</td>
<td>U</td>
<td>37° 39.25</td>
<td>-118° 48.29</td>
<td>2110</td>
</tr>
<tr>
<td>LAK</td>
<td>VEL</td>
<td>5/26</td>
<td>6/13</td>
<td>U</td>
<td>37° 38.49</td>
<td>-118° 43.70</td>
<td>2070</td>
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<td>LAR</td>
<td>VEL</td>
<td>5/26</td>
<td>5/30</td>
<td>U</td>
<td>37° 37.37</td>
<td>-118° 53.38</td>
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</tr>
<tr>
<td>LKM</td>
<td>VEL</td>
<td>5/30</td>
<td>6/13</td>
<td>U</td>
<td>37° 41.80</td>
<td>-118° 56.13</td>
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<td>VEL</td>
<td>5/26</td>
<td>5/27</td>
<td>U</td>
<td>37° 33.25</td>
<td>-118° 47.88</td>
<td>2390</td>
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<tr>
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<td>FBA</td>
<td>5/27</td>
<td>6/13</td>
<td>U</td>
<td>37° 33.67</td>
<td>-118° 47.22</td>
<td>2340</td>
</tr>
<tr>
<td>PS1</td>
<td>FBA</td>
<td>5/26</td>
<td>6/1</td>
<td>D</td>
<td>37° 32.45</td>
<td>-118° 35.35</td>
<td>2110</td>
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<tr>
<td>ROC</td>
<td>VEL</td>
<td>5/26</td>
<td>6/13</td>
<td>U</td>
<td>37° 29.78</td>
<td>-118° 43.16</td>
<td>2730</td>
</tr>
<tr>
<td>TOM</td>
<td>VEL</td>
<td>5/26</td>
<td>6/13</td>
<td>U</td>
<td>37° 33.05</td>
<td>-118° 40.32</td>
<td>2190</td>
</tr>
<tr>
<td>TWL</td>
<td>VEL</td>
<td>5/30</td>
<td>6/13</td>
<td>U</td>
<td>37° 36.93</td>
<td>-119° 00.37</td>
<td>2630</td>
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Table 2: Additional technical information about stations.

<table>
<thead>
<tr>
<th>Station</th>
<th>System serial numbers</th>
<th>DR-100 internal switch settings</th>
<th>Sample rate per component</th>
<th>Power</th>
<th>Remarks</th>
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<tbody>
<tr>
<td></td>
<td>recorder</td>
<td>amplifier</td>
<td>sensor</td>
<td>A/V switch</td>
<td>C (s)</td>
</tr>
<tr>
<td>CBR</td>
<td>203</td>
<td>127</td>
<td>105</td>
<td>A</td>
<td>5</td>
</tr>
<tr>
<td>CON</td>
<td>204</td>
<td>105</td>
<td>7411</td>
<td>A</td>
<td>5</td>
</tr>
<tr>
<td>DMP</td>
<td>211</td>
<td>109</td>
<td>6724</td>
<td>A</td>
<td>5</td>
</tr>
<tr>
<td>FIS</td>
<td>217</td>
<td>122</td>
<td>106</td>
<td>A</td>
<td>5</td>
</tr>
<tr>
<td>HCF</td>
<td>212</td>
<td>124</td>
<td>104</td>
<td>A</td>
<td>5</td>
</tr>
<tr>
<td>HOT</td>
<td>222</td>
<td>125</td>
<td>6727</td>
<td>V</td>
<td>5</td>
</tr>
<tr>
<td>LAK</td>
<td>219</td>
<td>121</td>
<td>6725</td>
<td>V</td>
<td>5</td>
</tr>
<tr>
<td>LAR</td>
<td>223</td>
<td>126</td>
<td>6723</td>
<td>V</td>
<td>5</td>
</tr>
<tr>
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<td>223</td>
<td>126</td>
<td>6723</td>
<td>V</td>
<td>5</td>
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<td>MGE</td>
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<td>A</td>
<td>5</td>
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<td>213</td>
<td>108</td>
<td>203</td>
<td>V</td>
<td>5</td>
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<tr>
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<td>109/123</td>
<td>6753</td>
<td>V</td>
<td>5</td>
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<td>TOM</td>
<td>218</td>
<td>120</td>
<td>6726</td>
<td>V</td>
<td>5</td>
</tr>
<tr>
<td>TWL</td>
<td>222</td>
<td>125</td>
<td>6727/6724</td>
<td>V</td>
<td>5</td>
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Table 3: Instrument constants

<table>
<thead>
<tr>
<th></th>
<th>velocity instruments</th>
<th>force balance accelerometers</th>
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<tbody>
<tr>
<td>Coil constant</td>
<td>0.5 v/cm/s</td>
<td>.0068 v/cm/s^2</td>
</tr>
<tr>
<td>Natural frequency (Hz)</td>
<td>2</td>
<td>--</td>
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<tr>
<td>Corner frequency (Hz)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>anti-alias filter</td>
<td>50</td>
<td>50</td>
</tr>
<tr>
<td>Number of poles</td>
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<td>5</td>
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<tr>
<td>anti-alias filter</td>
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<td></td>
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<td>Rolloff (dB/octave)</td>
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<td>30</td>
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<td>anti-alias filter</td>
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<td></td>
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<tr>
<td>Damping</td>
<td>0.6</td>
<td>0.6</td>
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<td>Station</td>
<td>Latitude-N</td>
<td>Longitude-W</td>
</tr>
<tr>
<td>---------</td>
<td>------------</td>
<td>-------------</td>
</tr>
<tr>
<td>BEN</td>
<td>37° 33.78'</td>
<td>118° 43.99'</td>
</tr>
<tr>
<td>MIN</td>
<td>37° 23.70'</td>
<td>118° 43.08'</td>
</tr>
<tr>
<td>PS2</td>
<td>37° 31.51'</td>
<td>118° 34.42'</td>
</tr>
<tr>
<td>UCK</td>
<td>37° 38.97'</td>
<td>118° 58.52'</td>
</tr>
</tbody>
</table>
MAMMOTH LAKES STATION LOCATIONS

Figure 1. Locations of digital seismometers which recorded earthquakes during the Mammoth Lakes earthquake sequence.
Appendix A: Cassette tape log

This appendix contains a list of all cassette data tapes recovered from the field for stations which produced good data. For each tape an installation and recovery time are given, as well as comments abstracted from the field notes. Abbreviations used in the appendix are:

TC: WWV time recorded on tape
SO: No WWV time code recorded, but indicated tape time on or time off is accurate to the minute.
TO: No WWV time code recorded, and indicated tape time on or time off is of unknown accuracy.
STATION NAME: CBR (FBA)
LAT: 37°42'45" LONG: 118°49'51" ELEV. 2,116 m

MAP QUADRANGLE: ALLIVIUM AND TUFF DEPOSITS OF THE CALDERA
DATE INSTALLED: MAY 27, 1988 DATE REMOVED: JUNE 18, 1989
INSTALLED BY: A. HARRICK, R. NAVARDO

STATION SITING: ALLIVIUM AND TUFF DEPOSITS OF THE CALDERA

RECORER NO.: 203 LID NO.: 127 SEISMMETER NO.: 705
SEISMMETER ORIENTATION: NORTH
COMMENTS:

* * * * * * * * * * *

TAPE #1
TAPE ON: TC(X), SO( ), TU( ) DAY: 48 TIME: 22:51
TAPE OFF: TC(X), SO( ), TO( ) DAY: 49 TIME: 06:43:55
GAIN: 12 db NO. OF TRIG.: 15 CC-FFF YES
COMMENTS: S/TA/?.4/1 = 9.4b, TRIG. MODE = FBA

* * * * * * * * * * *

TAPE #2
TAPE ON: TC(X), SO( ), TO( ) DAY: 49 TIME: 16:50:55
TAPE OFF: TC(X), SO( ), TU( ) DAY: 50 TIME: 06:22:55
GAIN: 6 db NO. OF TRIG.: 2 CC-FFF YES
COMMENTS:

* * * * * * * * * * *

TAPE #3
TAPE ON: TC(X), SO( ), TO( ) DAY: 50 TIME: 15:31:55
TAPE OFF: TC(X), SO( ), TU( ) DAY: 51 TIME: 12:42:55
GAIN: 12 db NO. OF TRIG.: 7 CC-FFF YES
COMMENTS: NEW BATTERY, HEADS CLEARED

* * * * * * * * * * *

TAPE #4
TAPE ON: TC(X), SO( ), TO( ) DAY: 51 TIME: 15:49:55
TAPE OFF: TC(X), SO( ), TO( ) DAY: 52 TIME: 08:10:55
GAIN: 12 db NO. OF TRIG.: 13 CC-FFF YES
COMMENTS: STA/LTA = 4.1b ON
HEADS CLEARED, TEST RUN AFTER TC BECAUSE TAPE WAS ACCIDENTLY REMOVED

* * * * * * * * * * *

TAPE #5
TAPE ON: TC(X), SO( ), TO( ) DAY: 52 TIME: 21:05:30
TAPE OFF: TC(X), SO( ), TO( ) DAY: 53 TIME: 21:37:35
GAIN: 6 db NO. OF TRIG.: 4 CC-FFF YES
COMMENTS: NEW BATTERY, CLEARED HEADS, 230' TAPE LEFT

* * * * * * * * * * *

TAPE #6
TAPE ON: TC(X), SO( ), TO( ) DAY: 53 TIME: 21:37:35
TAPE OFF: TC(X), SO( ), TO( ) DAY: 54 TIME: 00:07:55
GAIN: 6 db NO. OF TRIG.: 1 CC-FFF YES
COMMENTS: HEADS CLEARED, 230' TAPE LEFT, LEFT INTERNAL BATTERY ON

13
<table>
<thead>
<tr>
<th>TAPE #7</th>
<th>TAPE ON - TC(x),SO( ),TO( )</th>
<th>DAY 5/4</th>
<th>TIME 19:43:56</th>
</tr>
</thead>
<tbody>
<tr>
<td>TAPE OFF- TC(x),SO( ),T0( )</td>
<td>DAY 5/5</td>
<td>TIME 23:12:55</td>
<td></td>
</tr>
<tr>
<td>GAIN 6db</td>
<td>NO. OF TRIG. 4</td>
<td>CC-WWV YES</td>
<td></td>
</tr>
<tr>
<td>COMMENTS</td>
<td>HEADS CLEANED, NEW BATTERY, START TERMAG C USG 25'</td>
<td></td>
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<table>
<thead>
<tr>
<th>TAPE #8</th>
<th>TAPE ON - TC(x),SO( ),TO( )</th>
<th>DAY 5/5</th>
<th>TIME 23:45:55</th>
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<tbody>
<tr>
<td>TAPE OFF- TC( ),SO(x),TO( )</td>
<td>DAY 5/7</td>
<td>TIME 01:51</td>
<td></td>
</tr>
<tr>
<td>GAIN 6db</td>
<td>NO. OF TRIG. 2</td>
<td>CC-WWV</td>
<td></td>
</tr>
<tr>
<td>COMMENTS</td>
<td>HEADS CLEANED, AT 154Z, AT 151Z THERE WERE 7+1 TRIG, AND EVERYTHING RESET, GAIN WAS SET TO 50.4 FOR BLAST, 250' TAPE LEFT</td>
<td></td>
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</table>

<table>
<thead>
<tr>
<th>TAPE #9</th>
<th>TAPE ON - TC(x),SO( ),TO( )</th>
<th>DAY 5/7</th>
<th>TIME 01:55:55</th>
</tr>
</thead>
<tbody>
<tr>
<td>TAPE OFF- TC( ),SO( ),TO( )</td>
<td>DAY 5/7</td>
<td>TIME 20:53:4</td>
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<tr>
<td>GAIN 6db</td>
<td>NO. OF TRIG. 9</td>
<td>CC-WWV</td>
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<table>
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<tr>
<th>TAPE #10</th>
<th>TAPE ON - TC( ),SO( ),TO( )</th>
<th>DAY 5/7</th>
<th>TIME 20:58</th>
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<tr>
<td>TAPE OFF- TC( ),SO( ),TO( )</td>
<td>DAY 5/8</td>
<td>TIME 02:09</td>
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<tr>
<td>GAIN 4db</td>
<td>NO. OF TRIG. 75</td>
<td>CC-WWV</td>
<td></td>
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<tr>
<td>COMMENTS</td>
<td>BLAST TAPE, TAPE RAN OUT</td>
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<table>
<thead>
<tr>
<th>TAPE #11</th>
<th>TAPE ON - TC( ),SO( ),TO( )</th>
<th>DAY 5/8</th>
<th>TIME 02:10</th>
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<tbody>
<tr>
<td>TAPE OFF- TC( ),SO( ),TO( )</td>
<td>DAY 5/9</td>
<td>TIME 20:26:55</td>
<td></td>
</tr>
<tr>
<td>GAIN 6db</td>
<td>NO. OF TRIG. 2</td>
<td>CC-WWV</td>
<td></td>
</tr>
<tr>
<td>COMMENTS</td>
<td>750' TAPE LEFT</td>
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<thead>
<tr>
<th>TAPE #12</th>
<th>TAPE ON - TC(x),SO( ),TO( )</th>
<th>DAY 5/9</th>
<th>TIME 20:28:55</th>
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<tr>
<td>TAPE OFF- TC(x),SO( ),TO( )</td>
<td>DAY 5/10</td>
<td>TIME 19:51:55</td>
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<td>GAIN 4db</td>
<td>NO. OF TRIG. 1</td>
<td>CC-WWV</td>
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<td>COMMENTS</td>
<td>HEADS CLEANED, 750' TAPE LEFT</td>
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<th>TAPE #13</th>
<th>TAPE ON - TC(x),SO( ),TO( )</th>
<th>DAY 5/10</th>
<th>TIME 19:55:55</th>
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<tbody>
<tr>
<td>TAPE OFF- TC( ),SO( ),TO(x)</td>
<td>DAY 5/11</td>
<td>TIME 19:21:36</td>
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<tr>
<td>GAIN 6db</td>
<td>NO. OF TRIG. 1</td>
<td>CC-WWV YES</td>
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<tr>
<td>COMMENTS</td>
<td>HEADS CLEANED, NEW BATTERY, 720' TAPE LEFT</td>
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<td></td>
</tr>
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<thead>
<tr>
<th>TAPE #14</th>
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<th>DAY 5/11</th>
<th>TIME 19:23</th>
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<tr>
<td>TAPE OFF- TC( ),SO( ),TO(x)</td>
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<td>TIME 21:12</td>
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<td>GAIN 6db</td>
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<td>CC-WWV YES</td>
<td></td>
</tr>
<tr>
<td>COMMENTS</td>
<td>250' TAPE LEFT, HEADS CLEANED</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

---

14
TAPE #15  TAPE ON - TC( ), SO( ), TO( )  DAY 1/62  TIME 21:14
TAPE OFF - TC( ), SO( ), TO( )  DAY 1/63  TIME 21:04:30
GAIN 6.3  NO. OF TRIG. 1  CC-WWV  YES
COMMENTS NEW BATTERY, READS CLEARED, 2.25' TAPE LEFT

TAPE #16  TAPE ON - TC( ), SO( ), TO( )  DAY 1/63  TIME 21:10:55
TAPE OFF - TC( ), SO( ), TO( )  DAY 1/64  TIME 20:57:55
GAIN 5.35  NO. OF TRIG. 2  CC-WWV  YES
COMMENTS CLEANED HEADS, 2.26' TAPE LEFT, BELT FELL OFF

TAPE #17  TAPE ON - TC( ), SO( ), TO( )  DAY 1/64  TIME 20:50:55
TAPE OFF - TC( ), SO( ), TO( )  DAY 1/65  TIME 19:48:55
GAIN 6.35  NO. OF TRIG. 1  CC-WWV
COMMENTS NEW BATTERY, 2.33' TAPE LEFT

TAPE #18  TAPE ON - TC( ), SO( ), TO( )
TAPE OFF - TC( ), SO( ), TO( )
GAIN____  NO. OF TRIG._  CC-WWV
COMMENTS

TAPE #19  TAPE ON - TC( ), SO( ), TO( )
TAPE OFF - TC( ), SO( ), TO( )
GAIN____  NO. OF TRIG._  CC-WWV
COMMENTS

TAPE #20  TAPE ON - TC( ), SO( ), TO( )
TAPE OFF - TC( ), SO( ), TO( )
GAIN____  NO. OF TRIG._  CC-WWV
COMMENTS

TAPE #21  TAPE ON - TC( ), SO( ), TO( )
TAPE OFF - TC( ), SO( ), TO( )
GAIN____  NO. OF TRIG._  CC-WWV
COMMENTS

TAPE #22  TAPE ON - TC( ), SO( ), TO( )
TAPE OFF - TC( ), SO( ), TO( )
GAIN____  NO. OF TRIG._  CC-WWV
COMMENTS
| TAPE #1 | TAPE ON - TC( ), SO( ), TO( ) DAY 148 | TIME 17:30 |
| TAPE OFF - TC( ), SO( ), TO( ) DAY 149 | TIME 20:39 |
| GAIN 1.3 | NO. OF TRIG. 81 | CC-wwv |
| COMMENTS | TAPE RAN OUT APPEARENTLY 77 TRIG. |
| AT LAST RECORD TIME ON TAPE STATION WAS SET TO LOCAL TIME |
| ACCORDING TO WRIST WATCH 31 TRIG. ON CARE |

| TAPE #2 | TAPE ON - TC( ), SO( ), TO( ) DAY 149 | TIME 20:40 |
| TAPE OFF - TC( ), SO( ), TO( ) DAY 149 | TIME 07:40 |
| GAIN 1.4 | NO. OF TRIG. 50 | CC-wwv |
| COMMENTS | WHAT ELSE CAN I SAY! TIME SET TO LOCAL BY WRISTWATCH ONLY 29 TRIG. |

| TAPE #3 | TAPE ON - TC( ), SO( ), TO( ) DAY 149 | TIME 17:43 |
| TAPE OFF - TC( ), SO( ), TO( ) DAY 150 | TIME 22:34:53 |
| GAIN 1.6 | NO. OF TRIG. 135 | CC-wwv |
| COMMENTS | INTERNAL CLOCK 3 SEC SLOW WWV. CLOCK RESET TO GMT AT 17:45 GMT |

| TAPE #4 | TAPE ON - TC( ), SO( ), TO( ) DAY 150 | TIME 17:49 |
| TAPE OFF - TC( ), SO( ), TO( ) DAY 151 | TIME 21:30:55 |
| GAIN 18 | NO. OF TRIG. 141 | CC-wwv |
| COMMENTS | NO COMMENT |

| TAPE #5 | TAPE ON - TC( ), SO( ), TO( ) DAY 151 | TIME 21:35:55 |
| TAPE OFF - TC( ), SO( ), TO( ) DAY 152 | TIME 19:32:55 |
| GAIN 5.1 | NO. OF TRIG. 171 | CC-wwv |
| COMMENTS | HEADS CLEANED |

| TAPE #6 | TAPE ON - TC( ), SO( ), TO( ) DAY 152 | TIME 19:35:55 |
| TAPE OFF - TC( ), SO( ), TO( ) DAY 153 | TIME 17:13:55 |
| GAIN 5.5 | NO. OF TRIG. 3 | CC-wwv |
| COMMENTS | SEISOMETER ORIENTATION MEASURED AT 37° 35' |

* THESE TIMES FROM WRIST WATCH LOCAL - PDT
TAPE #7  TAPE ON - TC(X), SO(), TO( ) DAY/53 TIME 17:17:55
TAPE OFF- TC(X), SO(), TO( ) DAY/54 TIME 17:27:55
GAIN 0.1 NO. OF TRIG. 7 CC-wwv yes
COMMENTS TAPE LEFT  

---

TAPE #8  TAPE ON - TC(X), SO(), TO( ) DAY/57 TIME 14:47:55
TAPE OFF- TC(X), SO(), TO( ) DAY/58 TIME 14:23:55
GAIN 0.1 NO. OF TRIG. 9 CC-wwv yes
COMMENTS  

---

TAPE #9  TAPE ON - TC(X), SO(), TO( ) DAY/55 TIME 19:27:55
TAPE OFF- TC(X), SO(), TO( ) DAY/54 TIME 18:40
GAIN 0.1 NO. OF TRIG. 9 CC-wwv  
COMMENTS BECAUSE GAINS WERE EXPERIMENTED WITH IN PREPARATION FOR BLAST  

---

TAPE #10  TAPE ON - TC(X), SO(), TO( ) DAY/56 TIME 18:45:55
TAPE OFF- TC(X), SO(), TO( ) DAY/57 TIME 18:13
GAIN 2.0 NO. OF TRIG. 32 CC-wwv  
COMMENTS 3 FALSE TRIG: BECAUSE OF GAIN PLAYING AT START. TAPE LABEL SAYS 31 TRIG, 2 TRIG WHILE REMOVING TAPE. TAPE RAN OUT  

---

TAPE #11  TAPE ON - TC(X), SO(), TO( ) DAY/57 TIME 08:17
TAPE OFF- TC(X), SO(), TO( ) DAY/57 TIME 18:24
GAIN 0.1 NO. OF TRIG. 19 CC-wwv  
COMMENTS  

---

TAPE #12  TAPE ON - TC(X), SO(), TO( ) DAY/57 TIME 18:28
TAPE OFF- TC(X), SO(), TO( ) DAY/58 TIME 00:32
GAIN 2.0 NO. OF TRIG. 16 CC-wwv  
COMMENTS HIGH GAIN FOR BLAST  

---

TAPE #13  TAPE ON - TC(X), SO(), TO( ) DAY/58 TIME 00:33
TAPE OFF- TC(X), SO(), TO( ) DAY/59 TIME 18:27:55
GAIN 2.4 NO. OF TRIG. 20 CC-wwv  
COMMENTS TAPE LABEL SAYS 21 TRIG.  

---

TAPE #14  TAPE ON - TC(X), SO(), TO( ) DAY/59 TIME 19:03:55
TAPE OFF- TC(X), SO(), TO( ) DAY/59 TIME 17:12
GAIN 1.0 NO. OF TRIG. 30 CC-wwv  
COMMENTS HEADS CLEANED, NEW CAR BATTERY FROM HARPS GROUP BETWEEN TAPE RUN OUT. SYSTEM TRIGGERED JUST AFTER REMOVING OLD CASSETTE, MAYBE CLOCK RESET.
<table>
<thead>
<tr>
<th>TAPE #15</th>
<th>TAPE ON - TC((x)), SO((x)), TO()</th>
<th>DAY/(15,9)</th>
<th>TIME/(17:18:55)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>TAPE OFF - TC((x)), SO((x)), TO()</td>
<td>DAY/(16,9)</td>
<td>TIME/(16:27:55)</td>
</tr>
<tr>
<td></td>
<td>GAIN 6/3</td>
<td>NO. OF TRIG. 6</td>
<td>CC-WWV YES</td>
</tr>
<tr>
<td>COMMENTS</td>
<td>HEADS CLEANED; 200' TAPE LEFT</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>TAPE #16</th>
<th>TAPE ON - TC((x)), SO((x)), TO()</th>
<th>DAY/(16,0)</th>
<th>TIME/(16:29:55)</th>
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<td>DAY/(16,1)</td>
<td>TIME/(16:04)</td>
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<tr>
<td></td>
<td>GAIN 6/3</td>
<td>NO. OF TRIG. 8</td>
<td>CC-WWV YES</td>
</tr>
<tr>
<td>COMMENTS</td>
<td>HEADS CLEANED; 180' TAPE LEFT</td>
<td></td>
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</table>

<table>
<thead>
<tr>
<th>TAPE #17</th>
<th>TAPE ON - TC((x)), SO((x)), TO()</th>
<th>DAY/(16,1)</th>
<th>TIME/(16:06)</th>
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<tr>
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<td>TAPE OFF - TC((x)), SO((x)), TO()</td>
<td>DAY/(16,2)</td>
<td>TIME/(17:43)</td>
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<tr>
<td></td>
<td>GAIN 6/3</td>
<td>NO. OF TRIG. 8</td>
<td>CC-WWV YES</td>
</tr>
<tr>
<td>COMMENTS</td>
<td>HEADS CLEANED; 180' TAPE LEFT</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>TAPE #18</th>
<th>TAPE ON - TC((x)), SO((x)), TO()</th>
<th>DAY/(16,2)</th>
<th>TIME/(17:44)</th>
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<tbody>
<tr>
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<td>TAPE OFF - TC((x)), SO((x)), TO()</td>
<td>DAY/(16,3)</td>
<td>TIME/(17:09)</td>
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<tr>
<td></td>
<td>GAIN 6/3</td>
<td>NO. OF TRIG. 8</td>
<td>CC-WWV YES</td>
</tr>
<tr>
<td>COMMENTS</td>
<td>HEADS CLEANED; 180' TAPE LEFT</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>TAPE #19</th>
<th>TAPE ON - TC((x)), SO((x)), TO()</th>
<th>DAY/(16,3)</th>
<th>TIME/(17:20:55)</th>
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<tbody>
<tr>
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<td>TAPE OFF - TC((x)), SO((x)), TO()</td>
<td>DAY/(16,4)</td>
<td>TIME/(17:06:55)</td>
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<tr>
<td></td>
<td>GAIN 6/3</td>
<td>NO. OF TRIG. 8</td>
<td>CC-WWV YES</td>
</tr>
<tr>
<td>COMMENTS</td>
<td>HEADS CLEANED; LARGE QUACE LEFT AT 17:10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>BAT WAS NOT RECORDED ON TAPE (OLD OR NEW)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>175' TAPE LEFT</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>TWO OFF-TC'S 17:05:55 AND 17:26:55</td>
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<table>
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<tr>
<th>TAPE #20</th>
<th>TAPE ON - TC((x)), SO((x)), TO()</th>
<th>DAY/(16,4)</th>
<th>TIME/(17:16:55)</th>
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<tbody>
<tr>
<td></td>
<td>TAPE OFF - TC((x)), SO((x)), TO()</td>
<td>DAY/(16,5)</td>
<td>TIME/(15:56:55)</td>
</tr>
<tr>
<td></td>
<td>GAIN 6/3</td>
<td>NO. OF TRIG. 7</td>
<td>CC-WWV</td>
</tr>
<tr>
<td>COMMENTS</td>
<td>200' TAPE LEFT</td>
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<table>
<thead>
<tr>
<th>TAPE #21</th>
<th>TAPE ON - TC((x)), SO((x)), TO()</th>
<th>DAY____</th>
<th>TIME____</th>
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<td>TAPE OFF - TC((x)), SO((x)), TO()</td>
<td>DAY____</td>
<td>TIME____</td>
</tr>
<tr>
<td></td>
<td>GAIN____</td>
<td>NO. OF TRIG.____</td>
<td>CC-WWV</td>
</tr>
<tr>
<td>COMMENTS</td>
<td>____</td>
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</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>TAPE #22</th>
<th>TAPE ON - TC((x)), SO((x)), TO()</th>
<th>DAY____</th>
<th>TIME____</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>TAPE OFF - TC((x)), SO((x)), TO()</td>
<td>DAY____</td>
<td>TIME____</td>
</tr>
<tr>
<td></td>
<td>GAIN____</td>
<td>NO. OF TRIG.____</td>
<td>CC-WWV</td>
</tr>
<tr>
<td>COMMENTS</td>
<td>____</td>
<td></td>
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</tr>
<tr>
<td>Tape</td>
<td>TAPE ON</td>
<td>TAPE OFF</td>
<td>DAY</td>
</tr>
<tr>
<td>-------</td>
<td>---------</td>
<td>----------</td>
<td>-----</td>
</tr>
<tr>
<td>Tape #1</td>
<td>TCX, SO ( )</td>
<td>TCX, SO ( )</td>
<td>50</td>
</tr>
<tr>
<td>Tape #2</td>
<td>TCX, SO ( )</td>
<td>TCX, SO ( )</td>
<td>51</td>
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<td>Tape #3</td>
<td>TCX, SO ( )</td>
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<td>Tape #4</td>
<td>TCX, SO ( )</td>
<td>TCX, SO ( )</td>
<td>53</td>
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<td>Tape #5</td>
<td>TCX, SO ( )</td>
<td>TCX, SO ( )</td>
<td>54</td>
</tr>
<tr>
<td>Tape #6</td>
<td>TCX, SO ( )</td>
<td>TCX, SO ( )</td>
<td>55</td>
</tr>
</tbody>
</table>

**Station Name:** DMP (VEL)

**Lat.:** 37° 44.26' **Long.:** 118° 47.34' **Elev.:** 2160

**Map Quadrangle:** MT. MCDOWELL

**Date Installed:** May 21, 1980 **Date Removed:** June 12, 1980

**Installed By:** R. NAVARRO, E. CRANWICK

**Station Siting:** On top of alluvium and tuff deposits of the caldera

**Recorder No.:** 211 **Lid No.:** 109 **Seismometer No.:** 6724

**Seismometer Orientation:** N 0° N

**Comments:** At installation, system calibrated using internal cal. coils - 3 comp. agreed = 50%. System tested successfully

**Triggered System:** For near surface P-wave velocity (~780 m/s) noted from start test

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**Tape #1**

- Tape On - TCX, SO( )
- Tape Off - TCX, SO( )
- Day 50
- Time 16:36:55

**Tape #2**

- Tape On - TCX, SO( )
- Tape Off - TCX, SO( )
- Day 51
- Time 16:15:55

**Tape #3**

- Tape On - TCX, SO( )
- Tape Off - TCX, SO( )
- Day 52
- Time 20:40:55

**Tape #4**

- Tape On - TCX, SO( )
- Tape Off - TCX, SO( )
- Day 53
- Time 21:12:55

**Tape #5**

- Tape On - TCX, SO( )
- Tape Off - TCX, SO( )
- Day 54
- Time 19:36:55

**Tape #6**

- Tape On - TCX, SO( )
- Tape Off - TCX, SO( )
- Day
- Time

**Comments:**
- Heads cleaned
- TAPE ON - TCX, SO( )
- TAPE OFF - TCX, SO( )
- DAY
- TIME
- NO. OF TRIG.
- CC-wwv

---
STATION NAME: FIS (FBA)
LAT. 37°36.8' LONG. 118°49.8' ELEV. 2760 ft.
MAP QUADRANGLE: MT. MORAISCA
DATE INSTALLED: MAY 27, 1970
DATE REMOVED: JUN. 7, 1971
INSTALLED BY: P. SPURICH
STATION SITING: NEAR EDGE OF CALIFORNIA ALUMINUM MILL BUILDINGS AT SIERRA NEVADA AQUATIC RESEARCH LAB.
RECOROE NO.: 217
LID NO.: 122
SEISMOMETER NO.: 106
SEISMOMETER ORIENTATION: NORTH

* * * * * * * * * * * *

TAPE #1
TAPE ON: TC(), SO(), TOC) DAY 159 TIME 00:35
TAPE OFF: TC(), SO(), TOC) DAY 159 TIME 18:55
GAIN: 2.0 D NO. OF TRIG: 27 CC-WWV: YES
COMMENTS:

* * * * * * * * * * * *

TAPE #2
TAPE ON: TC(), SO(), TOC) DAY 149 TIME 18:40
TAPE OFF: TC(), SO(), TOC) DAY 149 TIME 18:49
GAIN: 2.0 D NO. OF TRIG: 29 CC-WWV: YES
COMMENTS: TAPE RAN OUT

* * * * * * * * * * * *

TAPE #3
TAPE ON: TC(), SO(), TOC) DAY 149 TIME 19:11
TAPE OFF: TC(), SO(), TOC) DAY 150 TIME 18:25:55
GAIN: 2.0 D NO. OF TRIG: 2 CC-WWV: YES
COMMENTS: NEW BATTERY CHANGED TRIG MODE FROM VEL. TO FBA AT 04/23/70. NOTED 1 TRIG THEN

* * * * * * * * * * * *

TAPE #4
TAPE ON: TC(), SO(), TOC) DAY 150 TIME 18:30:55
TAPE OFF: TC(), SO(), TOC) DAY 151 TIME 21:54:55
GAIN: 2.0 D NO. OF TRIG: 12 CC-WWV: YES
COMMENTS: HEADS CLEARED

* * * * * * * * * * * *

TAPE #5
TAPE ON: TC(), SO(), TOC) DAY 151 TIME 22:03:55
TAPE OFF: TC(), SO(), TOC) DAY 152 TIME 19:03
GAIN: 2.0 D NO. OF TRIG: 14 CC-WWV: YES
COMMENTS: HEADS CLEARED, STA/LTA = 6:1

* * * * * * * * * * * *

TAPE #6
TAPE ON: TC(), SO(), TOC) DAY 152 TIME 19:47:35
TAPE OFF: TC(), SO(), TOC) DAY 153 TIME 14:52:55
GAIN: 2.0 D NO. OF TRIG: 14 CC-WWV: YES
COMMENTS: HEADS CLEARED, NEW BATTER
TAPE #7
TAPE ON - TC(x), SO(x), TO(x) DAY/67 TIME 12:47:55
TAPE OFF- TC(x), SO(x), TO(x) DAY/67 TIME 12:47:55
GAIN 6.4 NO. OF TRIG. 2 CC-WWW YES
COMMENTS HEADS CLEANED: 2.38" TAPE LEFT

TAPE #8
TAPE ON - TC(x), SO(x), TO(x) DAY/67 TIME 14:58:55
TAPE OFF- TC(x), SO(x), TO(x) DAY/67 TIME 14:58:55
GAIN 6.4 NO. OF TRIG. 2 CC-WWW YES
COMMENTS NO MENTION OF NEW BATTERIES

TAPE #9
TAPE ON - TC(x), SO(x), TO(x) DAY/67 TIME 17:46:55
TAPE OFF- TC(x), SO(x), TO(x) DAY/67 TIME 17:46:55
GAIN 6.4 NO. OF TRIG. 2 CC-WWW YES
COMMENTS HEADS CLEANED AT 19:58; 19:56. THERE WERE 0 TRIG.
AND THE GAIN WAS SET TO 2.44k. FOR BLAST ONE FALSE TRIG.
AT 19:55 BUT WAS RESET.

TAPE #10
TAPE ON - TC(x), SO(x), TO(x) DAY/67 TIME 19:27:55
TAPE OFF- TC(x), SO(x), TO(x) DAY/67 TIME 19:27:55
GAIN 6.4 NO. OF TRIG. 2 CC-WWW
COMMENTS NEW BATTERY AT 19:27:18:57; THERE WERE 6 TRIG.
AND THE GAIN WAS SET TO 4.84k FOR BLAST.

TAPE #11
TAPE ON - TC(x), SO(x), TO(x) DAY/67 TIME 03:22
TAPE OFF- TC(x), SO(x), TO(x) DAY/67 TIME 03:22
GAIN 6.4 NO. OF TRIG. 1 CC-WWW
COMMENTS SECOND OFF-TC AT 15:9 + 17:46:55
2.38" TAPE LEFT

TAPE #12
TAPE ON - TC(x), SO(x), TO(x) DAY/67 TIME 17:50:55
TAPE OFF- TC(x), SO(x), TO(x) DAY/67 TIME 17:50:55
GAIN 6.4 NO. OF TRIG. 2 CC-WWW YES
COMMENTS HEADS CLEANED. DID NOT HIT ETA LOAD AND
ACCIDENTLY TRIGGERED SYSTEM AT 15:9 + 17:50:27:30; RESET 17:53:30
2.38" TAPE LEFT

TAPE #13
TAPE ON - TC(x), SO(x), TO(x) DAY/68 TIME 16:49:55
TAPE OFF- TC(x), SO(x), TO(x) DAY/68 TIME 16:49:55
GAIN 5.0 NO. OF TRIG. 2 CC-WWW YES
COMMENTS HEADS CLEANED. NEW BATTERY MTS. SAY THERE WAS
ON-TC LABEL SAYS NO ON-TC AT 16/16/10 THERE WERE 0 TRIG.
AND NO TC. TAPE LEFT ON 2.38" TAPE LEFT. 2.38" TAPE LEFT WHEN TAPE OFF.

TAPE #14
TAPE ON - TC(x), SO(x), TO(x) DAY/63 TIME 18:02
TAPE OFF- TC(x), SO(x), TO(x) DAY/63 TIME 18:02
GAIN 6.4 NO. OF TRIG. 3 CC-WWW YES
COMMENTS HEADS CLEANED. NEW BATTERY. 2.38" TAPE LEFT.
<table>
<thead>
<tr>
<th>TAPE #15</th>
<th>TAPE ON - TC(X), SO( ), TO( ) DAY 1/63 TIME 17:52:55</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMMENTS</td>
<td>TAPE OFF - TC(X), SO( ), TO( ) DAY 1/64 TIME 17:49:55</td>
</tr>
<tr>
<td></td>
<td>GAIN OFF NO. OF TRIG. 5 CC-WWV YES</td>
</tr>
<tr>
<td></td>
<td>SELECT TAPE ON-TC AT 17:51:55, 26 SEC TAPE LEFT</td>
</tr>
<tr>
<td>TAPE #16</td>
<td>TAPE ON - TC(X), SO( ), TO( ) DAY 1/64 TIME 17:35:55</td>
</tr>
<tr>
<td>COMMENTS</td>
<td>LAST TAPE</td>
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<td></td>
<td>TAPE OFF - TC(X), SO( ), TO( ) DAY 1/65 TIME 17:18:55</td>
</tr>
<tr>
<td></td>
<td>GAIN OFF NO. OF TRIG. 1 CC-WWV</td>
</tr>
<tr>
<td>TAPE #17</td>
<td>TAPE ON - TC( ), SO( ), TO( ) DAY TIME</td>
</tr>
<tr>
<td>COMMENTS</td>
<td>TAPE OFF - TC( ), SO( ), TO( ) DAY TIME</td>
</tr>
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<td></td>
<td>GAIN OFF NO. OF TRIG. CC-WWV</td>
</tr>
<tr>
<td>TAPE #18</td>
<td>TAPE ON - TC( ), SO( ), TO( ) DAY TIME</td>
</tr>
<tr>
<td>COMMENTS</td>
<td>TAPE OFF - TC( ), SO( ), TO( ) DAY TIME</td>
</tr>
<tr>
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<td>GAIN OFF NO. OF TRIG. CC-WWV</td>
</tr>
<tr>
<td>TAPE #19</td>
<td>TAPE ON - TC( ), SO( ), TO( ) DAY TIME</td>
</tr>
<tr>
<td>COMMENTS</td>
<td>TAPE OFF - TC( ), SO( ), TO( ) DAY TIME</td>
</tr>
<tr>
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<td>GAIN OFF NO. OF TRIG. CC-WWV</td>
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<tr>
<td>TAPE #20</td>
<td>TAPE ON - TC( ), SO( ), TO( ) DAY TIME</td>
</tr>
<tr>
<td>COMMENTS</td>
<td>TAPE OFF - TC( ), SO( ), TO( ) DAY TIME</td>
</tr>
<tr>
<td></td>
<td>GAIN OFF NO. OF TRIG. CC-WWV</td>
</tr>
<tr>
<td>TAPE #21</td>
<td>TAPE ON - TC( ), SO( ), TO( ) DAY TIME</td>
</tr>
<tr>
<td>COMMENTS</td>
<td>TAPE OFF - TC( ), SO( ), TO( ) DAY TIME</td>
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<tr>
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<td>GAIN OFF NO. OF TRIG. CC-WWV</td>
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<tr>
<td>TAPE #22</td>
<td>TAPE ON - TC( ), SO( ), TO( ) DAY TIME</td>
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<td>COMMENTS</td>
<td>TAPE OFF - TC( ), SO( ), TO( ) DAY TIME</td>
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<tr>
<td></td>
<td>GAIN OFF NO. OF TRIG. CC-WWV</td>
</tr>
</tbody>
</table>
STATION NAME: HCF (FBA)

LAT.: 37°33.5' N  LONG.: 118°59.48' ELEV. 2160 m.

MAP QUADRANGLE: MT. MORRISON

DATE INSTALLED: MAY 29, 1988
DATE REMOVED: AUG. 19, 1988

INSTALLED BY: R. NAVARRO, R. WARRICK

STATION SITING: In alluvium of Caima, immediately adjacent to fish hatchery buildings

REPUBLIC NO.: 217  LID NO.: 124  SEISMOMETER NO.: 104

SEISMOMETER ORIENTATION: NORTH

COMMENTS: System ran OK as FBA. Duration of installation: Problems of system: loses belts, triggers on something at changing system. Lack of sensitivity (see tape) and appended field notes.

** TAPE #1 **

TAPE ON - TC(x), SO(y), TO(z)  DAY 49  TIME 15:18:55  MAYBE OFF FOR TAPE,
TAPE OFF - TC(x), SO(y), TO(z)  DAY 49  TIME 15:19

Gain 72.66  No. of Trig. 13  CC-wwv yes

COMMENTS

** TAPE #2 **

TAPE ON - TC(x), SO(y), TO(z)  DAY 49  TIME 15:19:55
TAPE OFF - TC(x), SO(y), TO(z)  DAY 49  TIME 15:20:55

Gain 72.66  No. of Trig. 13  CC-wwv yes

COMMENTS: Belt fell off during first test advance. Second on-TO at 15:33:00. Belt was off when tape was taken off new belt put on. System triggered just prior to cassette change. Tape off.

** TAPE #3 **

TAPE ON - TC(x), SO(y), TO(z)  DAY 50  TIME 15:20:55
TAPE OFF - TC(x), SO(y), TO(z)  DAY 50  TIME 15:21:55

Gain 72.66  No. of Trig. 13  CC-wwv yes

COMMENTS: Trigger mode changed to FBA. Reset before on event at 15:56 while changing tape off.

** TAPE #4 **

TAPE ON - TC(x), SO(y), TO(z)  DAY 51  TIME 15:21:55
TAPE OFF - TC(x), SO(y), TO(z)  DAY 51  TIME 15:22:55

Gain 72.66  No. of Trig. 13  CC-wwv yes

COMMENTS: Heads cleaned. TAPE end = 62%. Belt off at tape off.

** TAPE #5 **

TAPE ON - TC(x), SO(y), TO(z)  DAY 52  TIME 21:48:55
TAPE OFF - TC(x), SO(y), TO(z)  DAY 52  TIME 21:49:55

Gain 72.66  No. of Trig. 13  CC-wwv yes


** TAPE #6 **

TAPE ON - TC(x), SO(y), TO(z)  DAY 53  TIME 22:14:55
TAPE OFF - TC(x), SO(y), TO(z)  DAY 53  TIME 22:15:55

Gain 72.66  No. of Trig. 13  CC-wwv yes

COMMENTS: 208' tape left.

* Accidentally hit coat instead of test. System triggered just before tape off.

23
TAPE #7
TAPE ON - TC( ), SO( ), TO( ) DAY/64 TIME 19:42:35
TAPE OFF - TC( ), SO( ), TO( ) DAY/65 TIME 23:34:58
GAIN 6db NO. OF TRIG. 2 CC-WWV YES

COMMENTS

---

TAPE #8
TAPE ON - TC( ), SO( ), TO( ) DAY/65 TIME 23:39:55
TAPE OFF - TC( ), SO( ), TO( ) DAY/67 TIME 02:23:55
361h * GAIN 6db NO. OF TRIG. 9 CC-WWV

COMMENTS HEADS CLEARED AT 15:19 + 21:30, THERE WAS 1 TRIG.
AND THE GAIN WAS SET TO 361h.

---

TAPE #9
TAPE ON - TC( ), SO( ), TO( ) DAY/57 TIME 02:39:30
TAPE OFF - TC( ), SO( ), TO( ) DAY/57 TIME 21:24
GAIN 6db NO. OF TRIG. 1 CC-WWV

COMMENTS

---

TAPE #10
TAPE ON - TC( ), SO( ), TO( ) DAY/57 TIME 21:28
TAPE OFF - TC( ), SO( ), TO( ) DAY/58 TIME 02:30
GAIN 5db NO. OF TRIG. 2 CC-WWV

COMMENTS SEE APPENDIX FIELD NOTES: APPARENTLY PROBLEM
WITH LACK OF SYSTEM SENSITIVITY.

---

TAPE #11
TAPE ON - TC( ), SO( ), TO( ) DAY/58 TIME 03:02
TAPE OFF - TC( ), SO( ), TO( ) DAY/59 TIME 20:45:59
GAIN 6db NO. OF TRIG. 3 CC-WWV

COMMENTS 246 TAPE LEFT

---

TAPE #12
TAPE ON - TC( ), SO( ), TO( ) DAY/59 TIME 20:51:55
TAPE OFF - TC( ), SO( ), TO( ) DAY/60 TIME 20:58:58
GAIN 6db NO. OF TRIG. 5 CC-WWV

COMMENTS HEADS CLEARED, SECOND OFF-TC AT 20:58:58. SYSTEM
TRIGGERED JUST PRIOR TO CHANGING BUT FELT NO EQ.

---

TAPE #13
TAPE ON - TC( ), SO( ), TO( ) DAY/60 TIME 20:19:55
TAPE OFF - TC( ), SO( ), TO( ) DAY/63 TIME 21:33:52
GAIN 6db NO. OF TRIG. 2 CC-WWV YES

COMMENTS CC-WWV 161 + 19:31 TRIG 280 TAPE LEFT, TAPE NOT CHANGED
CC-WWV 182 +23:35 TRIG 246 TAPE LEFT, TAPE NOT CHANGED
125 TAPE LEFT

---

TAPE #14
TAPE ON - TC( ), SO( ), TO( ) DAY/63 TIME 21:33:55
TAPE OFF - TC( ), SO( ), TO( ) DAY/64 TIME 21:14:55
GAIN 6db NO. OF TRIG. 2 CC-WWV YES

COMMENTS
<table>
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<tr>
<th>TAPE #</th>
<th>TAPE ON</th>
<th>TAPE OFF</th>
<th>COMMENTS</th>
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<tbody>
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<tr>
<td></td>
<td>DAY 2/18</td>
<td>TIME 21:18:15</td>
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<td>DAY 2/18</td>
<td>TIME 21:18:15</td>
<td></td>
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<td>TAPE OFF - TC( ), SO( ), TO( )</td>
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<tr>
<td></td>
<td>DAY 2/18</td>
<td>TIME 21:18:15</td>
<td></td>
</tr>
<tr>
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<td>TAPE OFF - TC( ), SO( ), TO( )</td>
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<td>SO( )</td>
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<td>----------</td>
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<td>TC(x), SO( ), TO( )</td>
<td>TC(x), SO( ), TO( )</td>
<td>24 db</td>
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</table>
| #8     | TC(x), SO( ), TO( ) | TC(x), SO( ), TO( ) | 24 db | 9 | *
<p>| #9     | TC(x), SO( ), TO( ) | TC(x), SO( ), TO( ) | 24 db | 9 | HEADS CLEANER. 95% TRIG. WHEN TAPE REMOVED BECAUSE OF GAIN PLAYING. |
| #10    | TC(x), SO( ), TO( ) | TC(x), SO( ), TO( ) | 42 db | 30 | TAPE RAN OUT |
| #11    | TC(x), SO( ), TO( ) | TC(x), SO( ), TO( ) | 36 db | 10 | RESET 157 0 2 1 55 1 TRIG AT 01:24 |
| #12    | TC( ), SO( ), TO( ) | TC( ), SO( ), TO( ) | 44 db | 57 | NEW BELT ON, TAPE RAN OUT |
| #13    | TC( ), SO( ), TO( ) | TC(x), SO( ), TO( ) | 30 db | 16 | |
| #14    | TC(x), SO( ), TO( ) | TC(x), SO( ), TO( ) | 30 db | 28 | HEADS CLEANED. TAPE RAN OUT |</p>
<table>
<thead>
<tr>
<th>TAPE #15</th>
<th>TAPE ON - TC(X), SO(), TO()</th>
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<th>TIME 20:03:55</th>
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<td>TIME 19:12:35</td>
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<td>NO. OF TRIG. 8</td>
<td>CC-WWV 25 sec. EAST</td>
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<td>TIME 18:53:12</td>
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<table>
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<th>TIME 20:13:55</th>
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<td>DAY 165</td>
<td>TIME 20:13:55</td>
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<tr>
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<td>GAIN 30/4</td>
<td>NO. OF TRIG. 15</td>
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<td>TAPE OFF - TC(X), SO(), TO()</td>
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<td>TIME___</td>
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<tr>
<td>GAIN___</td>
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<th>TIME___</th>
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<tr>
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<td>TAPE OFF - TC(X), SO(), TO()</td>
<td>DAY___</td>
<td>TIME___</td>
</tr>
<tr>
<td>GAIN___</td>
<td>NO. OF TRIG. ___</td>
<td>CC-WWV</td>
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<td>COMMENTS</td>
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<tr>
<td>TAPE</td>
<td>TAPE ON</td>
<td>TAPE OFF</td>
<td>GAIN</td>
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<td>TC(), SU(), TO(x)</td>
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<td>TAPE 1</td>
<td>TAPE ON - TC(X), SO( ), TO( )</td>
<td>DAY/52</td>
<td>TIME 01:52</td>
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**COMMENTS**

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**COMMENTS**

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**COMMENTS**

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<td>TAPE OFF - TC(X), SO( ), TO( )</td>
<td>DAY/56</td>
<td>TIME 00:05:55</td>
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**COMMENTS**

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<td>TIME 00:07:55</td>
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**COMMENTS**

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<td>TAPE OFF - TC(X), SO( ), TO( )</td>
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**COMMENTS**

**NEW BATTERY**
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<th>TAPE ON - TC( ),SO( ),TO( )</th>
<th>DAY 157</th>
<th>TIME 21:55</th>
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<tr>
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<td>TAPE OFF - TC( ),SO( ),TO( )</td>
<td>DAY 158</td>
<td>TIME 12:01</td>
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<td>GAIN: 74.6</td>
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<th>TAPE ON - TC( ),SO( ),TO( )</th>
<th>DAY 159</th>
<th>TIME 00:04</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>TAPE OFF - TC( ),SO( ),TO( )</td>
<td>DAY 159</td>
<td>TIME 27:57</td>
</tr>
<tr>
<td>GAIN: 24.6</td>
<td>NO. OF TRIG: 14</td>
<td>CC-WWV</td>
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<table>
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<tr>
<th>TAPE #9</th>
<th>TAPE ON - TC( ),SO( ),TO( )</th>
<th>DAY 158</th>
<th>TIME 21:10</th>
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<tbody>
<tr>
<td></td>
<td>TAPE OFF - TC( ),SO( ),TO( )</td>
<td>DAY 159</td>
<td>TIME 28:57</td>
</tr>
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<td>GAIN: 24.6</td>
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<th>DAY 159</th>
<th>TIME 21:10</th>
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<tbody>
<tr>
<td></td>
<td>TAPE OFF - TC( ),SO( ),TO( )</td>
<td>DAY 160</td>
<td>TIME 2:30</td>
</tr>
<tr>
<td>GAIN: 18.1</td>
<td>NO. OF TRIG: 12</td>
<td>CC-WWV YES</td>
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<tr>
<td>COMMENTS</td>
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<td>HEADS CLEANED</td>
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<table>
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<tr>
<th>TAPE #11</th>
<th>TAPE ON - TC( ),SO( ),TO( )</th>
<th>DAY 160</th>
<th>TIME 28:43</th>
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<tbody>
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<td>TAPE OFF - TC( ),SO( ),TO( )</td>
<td>DAY 161</td>
<td>TIME 15:59</td>
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<tr>
<td>GAIN: 18.1</td>
<td>NO. OF TRIG: 27</td>
<td>CC-WWV YES</td>
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<td>COMMENTS</td>
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<td></td>
<td>HEADS CLEANED, 270' TAPE LEFT</td>
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<table>
<thead>
<tr>
<th>TAPE #12</th>
<th>TAPE ON - TC( ),SO( ),TO( )</th>
<th>DAY 161</th>
<th>TIME 15:40</th>
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<tbody>
<tr>
<td></td>
<td>TAPE OFF - TC( ),SO( ),TO( )</td>
<td>DAY 162</td>
<td>TIME 17:04</td>
</tr>
<tr>
<td>GAIN: 30.4</td>
<td>NO. OF TRIG: 33</td>
<td>CC-WWV YES</td>
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<tr>
<td>COMMENTS</td>
<td></td>
<td></td>
<td>HEADS CLEANED, TAPE RAN OUT 36' TRIG</td>
</tr>
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<table>
<thead>
<tr>
<th>TAPE #13</th>
<th>TAPE ON - TC( ),SO( ),TO( )</th>
<th>DAY 162</th>
<th>TIME 17:28</th>
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<tr>
<td></td>
<td>TAPE OFF - TC( ),SO( ),TO( )</td>
<td>DAY 163</td>
<td>TIME 16:38</td>
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<tr>
<td>GAIN: 30.4</td>
<td>NO. OF TRIG: 48</td>
<td>CC-WWV YES</td>
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<td>COMMENTS</td>
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<td></td>
<td>CLEANED HEADS, 9' TAPE LEFT</td>
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<table>
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<tr>
<th>TAPE #14</th>
<th>TAPE ON - TC( ),SO( ),TO( )</th>
<th>DAY 163</th>
<th>TIME 16:39</th>
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<tbody>
<tr>
<td></td>
<td>TAPE OFF - TC( ),SO( ),TO( )</td>
<td>DAY 164</td>
<td>TIME 16:52</td>
</tr>
<tr>
<td>GAIN: 24.6</td>
<td>NO. OF TRIG: 10</td>
<td>CC-WWV YES</td>
<td></td>
</tr>
<tr>
<td>COMMENTS</td>
<td></td>
<td></td>
<td>HEADS CLEANED, 130' TAPE LEFT</td>
</tr>
<tr>
<td>TAPE</td>
<td>TAPE ON - TC(x), SO(y), TO(z)</td>
<td>DAY</td>
<td>TIME</td>
</tr>
<tr>
<td>------</td>
<td>--------------------------------</td>
<td>------</td>
<td>------</td>
</tr>
<tr>
<td>#15</td>
<td>TAPE ON - TC(x), SO(y), TO(z)</td>
<td>16-23</td>
<td>16-38-35</td>
</tr>
<tr>
<td>#16</td>
<td>TAPE ON - TC(x), SO(y), TO(z)</td>
<td>16-10</td>
<td>16-33-25</td>
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<tr>
<td>#17</td>
<td>TAPE ON - TC(x), SO(y), TO(z)</td>
<td>16-11</td>
<td>16-33-25</td>
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<td>#18</td>
<td>TAPE ON - TC(x), SO(y), TO(z)</td>
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<td>16-33-25</td>
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<tr>
<td>#19</td>
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<td>16-13</td>
<td>16-33-25</td>
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<tr>
<td>#20</td>
<td>TAPE ON - TC(x), SO(y), TO(z)</td>
<td>16-14</td>
<td>16-33-25</td>
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<td>#21</td>
<td>TAPE ON - TC(x), SO(y), TO(z)</td>
<td>16-15</td>
<td>16-33-25</td>
</tr>
<tr>
<td>#22</td>
<td>TAPE ON - TC(x), SO(y), TO(z)</td>
<td>16-16</td>
<td>16-33-25</td>
</tr>
</tbody>
</table>

**COMMENTS**

- Tape #15: TAPE ON - TC(x), SO(y), TO(z) DAY 16-23 TIME 16-38-35
- Last TAPE OFF: TC(x), SO(y), TO(z) DAY 16-10 TIME 16-33-25
- Gain 30: No. of TRIG 29 CC-WWV
- Comments: Tape rawout time code tape made with TC all 16-23-25 - separate tape. Seismometer found to be oriented south.

- Tape #16: TAPE ON - TC(x), SO(y), TO(z) DAY 16-10 TIME 16-33-25
- Gain: No. of TRIG CC-WWV

- Tape #17: TAPE ON - TC(x), SO(y), TO(z) DAY 16-11 TIME 16-33-25
- Gain: No. of TRIG CC-WWV

- Tape #18: TAPE ON - TC(x), SO(y), TO(z) DAY 16-12 TIME 16-33-25
- Gain: No. of TRIG CC-WWV

- Tape #19: TAPE ON - TC(x), SO(y), TO(z) DAY 16-13 TIME 16-33-25
- Gain: No. of TRIG CC-WWV

- Tape #20: TAPE ON - TC(x), SO(y), TO(z) DAY 16-14 TIME 16-33-25
- Gain: No. of TRIG CC-WWV

- Tape #21: TAPE ON - TC(x), SO(y), TO(z) DAY 16-15 TIME 16-33-25
- Gain: No. of TRIG CC-WWV

- Tape #22: TAPE ON - TC(x), SO(y), TO(z) DAY 16-16 TIME 16-33-25
- Gain: No. of TRIG CC-WWV
**STATION NAME** MCC (VEL)  
**LAT.** 37°33.25'  
**LONG.** 163°47.88'  
**ELEV.** 2370

**MAP QUADRANGLE**  
**DATE INSTALLED** MAY 26, 1986  
**DATE REMOVED** MAY 27, 1986  
**INSTALLED BY** S. NAVARRE, E. CRANDICK  
**STATION SITING** REUSED IN THIN ALUMINUM PLATE & FOLDING METAL BOXES

**RECORD NO.** 212  
**LID NO.** 127  
**SEISMOGRAM NO.** 7724  
**SEISMOGRAM ORIENTATION** CCW  
**COMMENTS** SYSTEM REMOVED AFTER ONE DAY OF OPERATION

---

**TAPE #1**  
TAPE ON - TC( ), SO ( ), TU ( ) DAY 47 TIME 19:50  
TAPE OFF - TC ( ), SO ( ), TU ( ) DAY 47 TIME 24:50  
GAIN 124  
NO. OF TRIG. 63  
CC - WWV YES

**TAPE #2**  
TAPE ON - TC ( ), SO ( ), TU ( ) DAY TIME  
TAPE OFF - TC ( ), SO ( ), TU ( ) DAY TIME  
GAIN  
NO. OF TRIG. CC - WWV

**TAPE #3**  
TAPE ON - TC ( ), SO ( ), TU ( ) DAY TIME  
TAPE OFF - TC ( ), SO ( ), TU ( ) DAY TIME  
GAIN  
NO. OF TRIG. CC - WWV

**TAPE #4**  
TAPE ON - TC ( ), SO ( ), TU ( ) DAY TIME  
TAPE OFF - TC ( ), SO ( ), TU ( ) DAY TIME  
GAIN  
NO. OF TRIG. CC - WWV

**TAPE #5**  
TAPE ON - TC ( ), SO ( ), TU ( ) DAY TIME  
TAPE OFF - TC ( ), SO ( ), TU ( ) DAY TIME  
GAIN  
NO. OF TRIG. CC - WWV

**TAPE #6**  
TAPE ON - TC ( ), SO ( ), TU ( ) DAY TIME  
TAPE OFF - TC ( ), SO ( ), TU ( ) DAY TIME  
GAIN  
NO. OF TRIG. CC - WWV
### Station Information

**Station Name:** MGE (FBA)

**Latitude:** 37° 33.67

**Longitude:** 128° 47.22

**Elevation:** 2,340 ft.

**Map Quadrangle:** MT. KIRKLAND

**Date Installed:** May 17, 1968

**Date Removed:** June 13, 1978

**Installed By:** R. WARRICK, R. NAVARRO

**Station Siting:** On a fault trace adjacent to a fault break at Mcgee Creek.

**Recorder No.:** 2/6

**Lid No.:** 114

**Seismometer No.:** 11

**Seismometer Orientation:** NORTH

**Comments:** Clock reset several times.

---

### TAPE Log

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<thead>
<tr>
<th>Tape #</th>
<th>TAPE ON - TC( ), SOC( ), TO( )</th>
<th>DAY</th>
<th>TIME</th>
</tr>
</thead>
<tbody>
<tr>
<td>TAPE #1</td>
<td>TC( ), SO( ), TO( )</td>
<td>1/49</td>
<td>22:42</td>
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<tr>
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<td>TAPE OFF - TC( ), SO( ), TO( )</td>
<td>1/49</td>
<td>22:47</td>
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<td></td>
<td>GAIN 12db</td>
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</tr>
<tr>
<td></td>
<td>NO. OF TRIG. 36</td>
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<tr>
<td></td>
<td>CC-wwv</td>
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<td></td>
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<tr>
<td></td>
<td><strong>Comments:</strong> TAPE RUNOUT.</td>
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<tr>
<th>Tape #2</th>
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<th>DAY</th>
<th>TIME</th>
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<tr>
<td>TAPE #2</td>
<td>TC( ), SO( ), TO( )</td>
<td>1/49</td>
<td>23:05</td>
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<tr>
<td></td>
<td>TAPE OFF - TC( ), SO( ), TO( )</td>
<td>1/49</td>
<td>23:30</td>
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<td></td>
<td>GAIN 6db</td>
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</tr>
<tr>
<td></td>
<td>NO. OF TRIG. 3</td>
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<tr>
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<td>CC-wwv</td>
<td>YES</td>
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<tr>
<td></td>
<td><strong>Comments:</strong> TRIG. NO CHANGED TO FBA FROM VELOCITY AT 1/49 + 23:29</td>
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<tr>
<th>Tape #3</th>
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<th>TIME</th>
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<tbody>
<tr>
<td>TAPE #3</td>
<td>TC( ), SO( ), TO( )</td>
<td>1/51</td>
<td>23:43</td>
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<td>TAPE OFF - TC( ), SO( ), TO( )</td>
<td>1/51</td>
<td>17:47</td>
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<td>GAIN 6db</td>
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<tr>
<td></td>
<td>NO. OF TRIG. 9</td>
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<tr>
<td></td>
<td>CC-wwv</td>
<td>YES</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Comments:</strong> NEW BATTERY, STA/EVT CHANGED TO 6/46</td>
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<tr>
<th>Tape #4</th>
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<th>DAY</th>
<th>TIME</th>
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<tbody>
<tr>
<td>TAPE #4</td>
<td>TC( ), SO( ), TO( )</td>
<td>1/51</td>
<td>17:54</td>
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<td>TAPE OFF - TC( ), SO( ), TO( )</td>
<td>1/52</td>
<td>18:19</td>
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<tr>
<td></td>
<td>GAIN 6db</td>
<td>YES</td>
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</tr>
<tr>
<td></td>
<td>NO. OF TRIG. 22</td>
<td></td>
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<tr>
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<td>CC-wwv</td>
<td>YES</td>
<td></td>
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<tr>
<td></td>
<td><strong>Comments:</strong> TIME CODE 1/52 + 01:00 AFTER ONE TRIG. INTERNAL BATTERY LEFT ON AFTER 1/52 + 01:00 TO 2/53 + 18:19. BATTERY WENT DEAD SYSTEM TRIGGERED 1/52 + 18:18:32</td>
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<tr>
<th>Tape #5</th>
<th>TAPE ON - TC( ), SO( ), TO( )</th>
<th>DAY</th>
<th>TIME</th>
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<tbody>
<tr>
<td>TAPE #5</td>
<td>TC( ), SO( ), TO( )</td>
<td>1/52</td>
<td>18:45:55</td>
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<td>TAPE OFF - TC( ), SO( ), TO( )</td>
<td>1/53</td>
<td>18:56:30</td>
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<td>GAIN 6db</td>
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</tr>
<tr>
<td></td>
<td>NO. OF TRIG. 9</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>CC-wwv</td>
<td>YES</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Comments:</strong> HEADS CLEANED. CLOCK RESET &amp; 1/57 + 18:40 (DEAD BATTERY) 1/52 TAPE LEFT, ACCIDENTLY 91 TRIG. <strong>DURING</strong></td>
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<thead>
<tr>
<th>Tape #6</th>
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<th>DAY</th>
<th>TIME</th>
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<tbody>
<tr>
<td>TAPE #6</td>
<td>TC( ), SO( ), TO( )</td>
<td>1/53</td>
<td>18:31:55</td>
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<td>TAPE OFF - TC( ), SO( ), TO( )</td>
<td>1/54</td>
<td>18:31:55</td>
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<td>GAIN 6db</td>
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<tr>
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<td>NO. OF TRIG. 9</td>
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<tr>
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<td>CC-wwv</td>
<td>YES</td>
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<tr>
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<td><strong>Comments:</strong> HEADS CLEANED. INTERNAL BATTERY REPLACED. CLOCK RESET 1/53 + 19:25. (TRIG AFTER TEST BEFORE TC 200' TAPE LEFT.)</td>
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TAPE #7
TAPE ON - TC(X), SO(A), TO( ) DAY/54 TIME/53
TAPE OFF- TC(X), SO(A), TO( ) DAY/53 TIME/53
GAIN 24 DB NO. OF TRIG. 7 CC-WWV YES
COMMENTS HEADS CLEANED

TAPE #8
TAPE ON - TC(X), SO(A), TO( ) DAY/55 TIME/53
TAPE OFF- TC(X), SO(A), TO( ) DAY/53 TIME/53
GAIN 24 DB NO. OF TRIG. 7 CC-WWV YES
COMMENTS HEADS CLEANED, NEW BATTERY, LOST CLOCK, RE-SET CLOCK

TAPE #9
TAPE ON - TC( ), SO( ), TO( ) DAY/57 TIME/57
TAPE OFF- TC( ), SO( ), TO( ) DAY/53 TIME/53
GAIN 24 DB NO. OF TRIG. 7 CC-WWV
COMMENTS GAIN SET TO 42 DB AT 157/1929, TAPE RAN OUT

TAPE #10
TAPE ON - TC(X), SO(A), TO( ) DAY/58 TIME/58
TAPE OFF- TC(X), SO(A), TO( ) DAY/58 TIME/58
GAIN 24 DB NO. OF TRIG. 7 CC-WWV
COMMENTS 4 TRIG, RETURN 158+ AT 04:33 - 04:34

TAPE #11
TAPE ON - TC(X), SO(A), TO( ) DAY/58 TIME/58
TAPE OFF- TC(X), SO(A), TO( ) DAY/58 TIME/58
GAIN 24 DB NO. OF TRIG. 7 CC-WWV
COMMENTS HEADS CLEANED, NEW BATTERY, 260', TAPE LEFT

TAPE #12
TAPE ON - TC(X), SO(A), TO( ) DAY/59 TIME/59
TAPE OFF- TC(X), SO(A), TO( ) DAY/59 TIME/59
GAIN 24 DB NO. OF TRIG. 7 CC-WWV
COMMENTS HEADS CLEANED, 260', TAPE LEFT

TAPE #13
TAPE ON - TC(X), SO(A), TO( ) DAY/59 TIME/59
TAPE OFF- TC(X), SO(A), TO( ) DAY/59 TIME/59
GAIN 24 DB NO. OF TRIG. 7 CC-WWV
COMMENTS HEADS CLEANED, NEW BATTERY, 260', TAPE LEFT

TAPE #14
TAPE ON - TC(X), SO(A), TO( ) DAY/61 TIME/61
TAPE OFF- TC(X), SO(A), TO( ) DAY/62 TIME/62
GAIN 24 DB NO. OF TRIG. 7 CC-WWV
COMMENTS HEADS CLEANED, 250', TAPE LEFT

MGE (FBA)
### TAPE #15
- **Tape On:** TC(), SO(), TO(X) Day: 1/62, Time: 19:56
- **Tape Off:** TC(X), SO(), TO( ) Day: 1/63, Time: 18:16:55
- **Gain:** 2
- **No. of Trig.:** 6
- **CC-WWV:** YES
- **Comments:** Heads cleaned, new battery, 255' tape left

### TAPE #16
- **Tape On:** TC(X), SO(), TO( ) Day: 1/63, Time: 18:23:55
- **Tape Off:** TC(X), SO(), TO( ) Day: 1/64, Time: 17:55:55
- **Gain:** 2
- **No. of Trig.:** 3
- **CC-WWV:** YES
- **Comments:** Heads cleaned, new battery, 245' tape left

### TAPE #17
- **Tape On:** TC(X), SO(), TO( ) Day: 1/64, Time: 18:11:55
- **Tape Off:** TC(X), SO(), TO( ) Day: 1/65, Time: 16:41:55
- **Gain:** 2
- **No. of Trig.:** 1
- **CC-WWV:**
- **Comments:** Last tape

### TAPE #18
- **Tape On:** TC(), SO(), TO( ) Day: 164, Time:
- **Tape Off:** TC(), SO(), TO( ) Day: 165, Time:
- **Gain:**
- **No. of Trig.:**
- **CC-WWV:**
- **Comments:**

### TAPE #19
- **Tape On:** TC(), SO(), TO( ) Day: 164, Time:
- **Tape Off:** TC(), SO(), TO( ) Day: 165, Time:
- **Gain:**
- **No. of Trig.:**
- **CC-WWV:**
- **Comments:**

### TAPE #20
- **Tape On:** TC(), SO(), TO( ) Day: 164, Time:
- **Tape Off:** TC(), SO(), TO( ) Day: 165, Time:
- **Gain:**
- **No. of Trig.:**
- **CC-WWV:**
- **Comments:**

### TAPE #21
- **Tape On:** TC(), SO(), TO( ) Day: 164, Time:
- **Tape Off:** TC(), SO(), TO( ) Day: 165, Time:
- **Gain:**
- **No. of Trig.:**
- **CC-WWV:**
- **Comments:**

### TAPE #22
- **Tape On:** TC(), SO(), TO( ) Day: 164, Time:
- **Tape Off:** TC(), SO(), TO( ) Day: 165, Time:
- **Gain:**
- **No. of Trig.:**
- **CC-WWV:**
- **Comments:**
<table>
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<tr>
<th>TAPE #</th>
<th>TAPE ON - TC( ),SO( ),TU( )</th>
<th>DAY/ TIME</th>
<th>GAIN</th>
<th>NO. OF TRIG.</th>
<th>CC-##V</th>
<th>COMMENTS</th>
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<tbody>
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<td>TAPE ON - TC( ),SO( ),TU( )</td>
<td>DAY/48/7:19</td>
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<tr>
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<td>TAPE OFF- TC( ),SO( ),TU( )</td>
<td>DAY/53/1:19</td>
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<tr>
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<td>GAIN</td>
<td></td>
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</tr>
<tr>
<td></td>
<td>COMMENTS</td>
<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>#2</td>
<td>TAPE ON - TC( ),SO( ),TU( )</td>
<td></td>
<td></td>
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**STATION NAME:** PS1 (FBA)  
**MAP QUADRANGLE:** CASA MIALES MFA  
**DATE INSTALLED:** MAY 27, 1985  
**DATE REMOVED:** JUNE 1, 1985  
**STATION SITING:** EDGE OF GORSE ON TUFF  
**RECORD NO.:** 215  
**LID NO.:** 8182  
**SEISMOMETER NO.:** 7411  
**SEISMOMETER ORIENTATION:** EARTH?  
**COMMENTS:** MUST HAVE HAD ~30 SECOND DURATION FOR EVENT OF 1/8 + 1/4/50.
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<th>TIME</th>
<th>TAPE OFF</th>
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<th>CC-MMV</th>
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</table>

**COMMENTS**: Channel #2 dead for duration of installation because bad seismometer. Lid changed at 149+21:55.

**LID CHANGE**: Lid #12 replaced with lid #123.

**COMMENTS**: System tested on tape off and found that all components agreed within 2.5%. (CAI = 0.045).

**COMMENTS**: New battery system tested and found all components agreed within 2.5%.

**COMMENTS**: Heads cleaned. Station changed to 6.66.
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<tr>
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<th>GC( )</th>
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<th>CC = 155</th>
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<th>TAPE #22</th>
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<tbody>
<tr>
<td>COMMENTS</td>
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STATION NAME __TOM (VEL)___
LAT. 37° 37.63', LONG. 128° 42.3', ELEV. 2,176
MAP QUADRANGLE __CASA DIANE, MNT__
DATE INSTALLED __MAY 26, 1981__
DATE REMOVED __JUNE 13, 1981__
INSTALLED BY __R. NAVARE, E. GARRISON__
STATION SITING __IN ALPILUM ON FLANK OF MOUNTAIN, NOT IN CALIFORNIA IN HOLIDAY CAMPGROUND__
RECORDER NO. __218__ LID NO. __72C__ SEISMOMETER NO. __6726__
SEISMOMETER ORIENTATION _E + 5°_
COMMENTS

* * * * * * * * * * * *

TAPE #1 TAPE ON - TC(x), SO(x), TO(x) DAY 1/47 TIME 00:00
TAPE OFF- TC(x), SO(x), TO(x) DAY 48 TIME 21:58:55
GAIN 1049 NO. OF TRIG. 67 CC-wwv YES
COMMENTS BELT CAME OFF, NEW BELT PUT ON. NO EVENTS

* * * * * * * * * * * *

TAPE #2 TAPE ON - TC(x), SO(x), TO(x) DAY 1/48 TIME 09:16
TAPE OFF- TC(x), SO(x), TO(x) DAY 49 TIME 21:58:55
GAIN 1049 NO. OF TRIG. 4 CC-wwv
COMMENTS

* * * * * * * * * * * *

TAPE #3 TAPE ON - TC(x), SO(x), TO(x) DAY 1/49 TIME 22:00:55
TAPE OFF- TC(x), SO(x), TO(x) DAY 50 TIME 23:35:55
GAIN 1246 NO. OF TRIG. 3 CC-wwv
COMMENTS NEW BATTERY SCION FAILED, RUN OFF-TC FOR REMAINING TAPE

* * * * * * * * * * * *

TAPE #4 TAPE ON - TC(x), SO(x), TO(x) DAY 1/50 TIME 23:08:55
TAPE OFF- TC(x), SO(x), TO(x) DAY 51 TIME 23:43:55
GAIN 140 NO. OF TRIG. 16 CC-wwv YES
COMMENTS HEADS CLEANED

* * * * * * * * * * * *

TAPE #5 TAPE ON - TC(x), SO(x), TO(x) DAY 1/51 TIME 22:58:55
TAPE OFF- TC(x), SO(x), TO(x) DAY 52 TIME 16:56:55
GAIN 2941 NO. OF TRIG. 1 CC-wwv
COMMENTS NO SCOPE FOR OA-TC, HEADS CLEANED

* * * * * * * * * * * *

TAPE #6 TAPE ON - TC(x), SO(x), TO(x) DAY 1/52 TIME 17:00:55
TAPE OFF- TC(x), SO(x), TO(x) DAY 53 TIME 19:35:55
GAIN 1911 NO. OF TRIG. 16 CC-wwv
COMMENTS HEADS CLEANED, INSTRUMENT ACCIDENTLY TRIGGERED ON RADS, REPAIR OF 200-ON-TC, 100 TAPE LEFT

42
TAPE #7
TAPE ON - TC( ), SO( ), TO( ) DAY/53 TIME 19:47:55
TAPE OFF- TC( ), SO( ), TO( ) DAY/54 TIME 17:06:55
GAIN 2.0 M NO. OF TRIG. 10 CC-WV YES
COMMENTS NEW BATTERY STA/6 TAPE CHANGED TO 9 26

TAPE #8
TAPE ON - TC( ), SO( ), TO( ) DAY/55 TIME 17:06:55
TAPE OFF- TC( ), SO( ), TO( ) DAY/55 TIME 21:17:25
GAIN 2.4 M NO. OF TRIG. 12 CC-WV YES
COMMENTS HEADS CLEANED STA/67A CHANGED TO 6 15

TAPE #9
TAPE ON - TC( ), SO( ), TO( ) DAY/56 TIME 21:20:55
TAPE OFF- TC( ), SO( ), TO( ) DAY/57 TIME 01:13
GAIN 2.4 M NO. OF TRIG. 2.2 CC-WV YES
COMMENTS HEADS CLEANED AT 338 19:38. THER WERE 7 TRIG.
AND 90 TAPES LEFT AND THE GAIN WAS SET TO 9216
TAPE ALMOST GONE

TAPE #10
TAPE ON - TC( ), SO( ), TO( ) DAY/57 TIME 01:26
TAPE OFF- TC( ), SO( ), TO( ) DAY/57 TIME 02:17:35
GAIN 3.8 M NO. OF TRIG. 6 CC-WV
COMMENTS TAPE LEFT

TAPE #11
TAPE ON - TC( ), SO( ), TO( ) DAY/57 TIME 18:25:55
TAPE OFF- TC( ), SO( ), TO( ) DAY/58 TIME 01:04
GAIN 4.2 M NO. OF TRIG. 2.0 CC-WV YES
COMMENTS NEW BATTERY

TAPE #12
TAPE ON - TC( ), SO( ), TO( ) DAY/58 TIME 03:57
TAPE OFF- TC( ), SO( ), TO( ) DAY/58 TIME 05:34
GAIN 3.8 M NO. OF TRIG. 14 CC-WV
COMMENTS 160 TESTS ON 5 ACCIDENTAL

TAPE #13
TAPE ON - TC( ), SO( ), TO( ) DAY/58 TIME 20:28:55
TAPE OFF- TC( ), SO( ), TO( ) DAY/59 TIME 21:46:35
GAIN 2.4 M NO. OF TRIG. 8 CC-WV
COMMENTS HEADS CLEANED 180 TAPE LEFT

TAPE #14
TAPE ON - TC( ), SO( ), TO( ) DAY/59 TIME 18:50:55
TAPE OFF- TC( ), SO( ), TO( ) DAY/59 TIME 19:04:35
GAIN 3.0 M NO. OF TRIG. 8 CC-WV
COMMENTS HEADS CLEANED 180 TAPE LEFT

43
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<th>DAY</th>
<th>TIME</th>
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<th>CC-WWV</th>
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STATION NAME: "TLW (VEL)"

LAT.: 37° 16' 39" LONG. 117° 03' 37" ELEV. 2033 ft.

MAP QUADRANGLE: DECEY, POST PILE

DATE INSTALLED: MAY 31, 1976 DATE REMOVED: JUNE 19, 1976

INSTALLED BY: E. LEATHER, R. NAVARRE

STATION SITING: ON ALUMINUM IN WESTERN WASH. 7400 NORTH

NEXT TO LAKE IN A PARK WITH MANY TOURISTS

RECORER NO.: 222, LID NO.: 125, SEISMMETER NO.: 6727/6729

SEISMMETER ORIENTATION: TCC, SOC, TOC

COMMENTS: SYSTEM WAS AT HOL (VEL) FORMERLY. TLW WAS REPLACED DAY 15/6

* * * * * * * * * * * * * * * * *

TAPE #1
TAPE ON - TC ( ), SO ( ), TO ( ) DAY 1/15 TIME 0:0:05
TAPE OFF - TC ( ), SO ( ), TO ( ) DAY 1/15 TIME 0:0:34
GAIN 30.04 NO. OF TRIG. 80 CC=WW YES

COMMENTS: TAPE RAW OUT (ABNORMAL) OFF-TC PUT ON

TAPE #2
TAPE ON - TC ( ), SO ( ), TO ( ) DAY 1/15 TIME 12:02:20
TAPE OFF - TC ( ), SO ( ), TO ( ) DAY 1/15 TIME 12:02:23
GAIN 30.04 NO. OF TRIG. 80 CC=WW YES

COMMENTS: TAPE RAW OUT (ABNORMAL) OFF-TC PUT ON

TAPE #3
TAPE ON - TC ( ), SO ( ), TO ( ) DAY 1/15 TIME 12:02:20
TAPE OFF - TC ( ), SO ( ), TO ( ) DAY 1/15 TIME 12:02:23
GAIN 30.04 NO. OF TRIG. 80 CC=WW YES

COMMENTS: TAPE RAW OUT (ABNORMAL) OFF-TC PUT ON

TAPE #4
TAPE ON - TC ( ), SO ( ), TO ( ) DAY 1/15 TIME 12:02:20
TAPE OFF - TC ( ), SO ( ), TO ( ) DAY 1/15 TIME 12:02:23
GAIN 30.04 NO. OF TRIG. 80 CC=WW YES

COMMENTS: TAPE RAW OUT (ABNORMAL) OFF-TC PUT ON

TAPE #5
TAPE ON - TC ( ), SO ( ), TO ( ) DAY 1/15 TIME 12:02:20
TAPE OFF - TC ( ), SO ( ), TO ( ) DAY 1/15 TIME 12:02:23
GAIN 30.04 NO. OF TRIG. 80 CC=WW YES

COMMENTS: TAPE RAW OUT (ABNORMAL) OFF-TC PUT ON

TAPE #6
TAPE ON - TC ( ), SO ( ), TO ( ) DAY 1/15 TIME 12:02:20
TAPE OFF - TC ( ), SO ( ), TO ( ) DAY 1/15 TIME 12:02:23
GAIN 30.04 NO. OF TRIG. 80 CC=WW YES

COMMENTS: TAPE RAW OUT (ABNORMAL) OFF-TC PUT ON

TAPE #7
TAPE ON - TC ( ), SO ( ), TO ( ) DAY 1/15 TIME 12:02:20
TAPE OFF - TC ( ), SO ( ), TO ( ) DAY 1/15 TIME 12:02:23
GAIN 30.04 NO. OF TRIG. 80 CC=WW YES

COMMENTS: TAPE RAW OUT (ABNORMAL) OFF-TC PUT ON

45
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<tr>
<th>TAPE #</th>
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<th>DAY/TIME</th>
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<th>NO. OF TRIG.</th>
<th>COMMENTS</th>
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<td>TAPE OFF - TC( ), SO( ), TO( )</td>
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**TAPE #15** TAPE ON - TC( ), SO( ), TO( ) | DAY 158/17:50 | GAIN 3.46 | 46 | CC-wwv |
|        | TAPE OFF - TC( ), SO( ), TO( ) | DAY 158/21:46 | |
|        | COMMENTS | |

**TAPE #16** TAPE ON - TC( ), SO( ), TO( ) | DAY 158/21:46 | GAIN 3.46 | 46 | CC-wwv |
|        | TAPE OFF - TC( ), SO( ), TO( ) | DAY 158/21:46 | |
|        | COMMENTS | |

**TAPE #17** TAPE ON - TC( ), SO( ), TO( ) | DAY 159/15:53:52 | GAIN 2.44 | 29 | CC-wwv |
|        | TAPE OFF - TC( ), SO( ), TO( ) | DAY 159/15:53:52 | |
|        | COMMENTS | |

**TAPE #18** TAPE ON - TC( ), SO( ), TO( ) | DAY 159/15:53:52 | GAIN 2.44 | 29 | CC-wwv |
|        | TAPE OFF - TC( ), SO( ), TO( ) | DAY 159/15:53:52 | |
|        | COMMENTS | |

**TAPE #19** TAPE ON - TC( ), SO( ), TO( ) | DAY 160/14:41:55 | GAIN 2.44 | 29 | CC-wwv |
|        | TAPE OFF - TC( ), SO( ), TO( ) | DAY 160/14:41:55 | |
|        | COMMENTS | |

**TAPE #20** TAPE ON - TC( ), SO( ), TO( ) | DAY 160/15:29 | GAIN 2.44 | 46 | CC-wwv |
|        | TAPE OFF - TC( ), SO( ), TO( ) | DAY 160/15:29 | |
|        | COMMENTS | |

**TAPE #21** TAPE ON - TC( ), SO( ), TO( ) | DAY 161/16:33 | GAIN 2.44 | 46 | CC-wwv |
|        | TAPE OFF - TC( ), SO( ), TO( ) | DAY 161/16:33 | |
|        | COMMENTS | |

**TAPE #22** TAPE ON - TC( ), SO( ), TO( ) | DAY 161/16:33 | GAIN 2.44 | 29 | CC-wwv |
|        | TAPE OFF - TC( ), SO( ), TO( ) | DAY 161/16:33 | |
|        | COMMENTS | |

**TAPE #23** TAPE ON - TC( ), SO( ), TO( ) | DAY 162/16:33 | GAIN 2.44 | 46 | CC-wwv |
|        | TAPE OFF - TC( ), SO( ), TO( ) | DAY 162/16:33 | |
|        | COMMENTS | |

**TAPE #24** TAPE ON - TC( ), SO( ), TO( ) | DAY 162/16:33 | GAIN 2.44 | 46 | CC-wwv |
|        | TAPE OFF - TC( ), SO( ), TO( ) | DAY 162/16:33 | |
|        | COMMENTS | |

**TAPE #25** TAPE ON - TC( ), SO( ), TO( ) | DAY 162/16:33 | GAIN 2.44 | 46 | CC-wwv |
|        | TAPE OFF - TC( ), SO( ), TO( ) | DAY 162/16:33 | |
|        | COMMENTS | |

**TAPE #26** TAPE ON - TC( ), SO( ), TO( ) | DAY 162/16:33 | GAIN 2.44 | 46 | CC-wwv |
|        | TAPE OFF - TC( ), SO( ), TO( ) | DAY 162/16:33 | |
|        | COMMENTS | |

**TAPE #27** TAPE ON - TC( ), SO( ), TO( ) | DAY 162/16:33 | GAIN 2.44 | 46 | CC-wwv |
|        | TAPE OFF - TC( ), SO( ), TO( ) | DAY 162/16:33 | |
|        | COMMENTS | |

**TAPE #28** TAPE ON - TC( ), SO( ), TO( ) | DAY 162/16:33 | GAIN 2.44 | 46 | CC-wwv |
|        | TAPE OFF - TC( ), SO( ), TO( ) | DAY 162/16:33 | |
|        | COMMENTS | |

**TAPE #29** TAPE ON - TC( ), SO( ), TO( ) | DAY 162/16:33 | GAIN 2.44 | 46 | CC-wwv |
|        | TAPE OFF - TC( ), SO( ), TO( ) | DAY 162/16:33 | |
|        | COMMENTS | |

**TAPE #30** TAPE ON - TC( ), SO( ), TO( ) | DAY 162/16:33 | GAIN 2.44 | 46 | CC-wwv |
|        | TAPE OFF - TC( ), SO( ), TO( ) | DAY 162/16:33 | |
|        | COMMENTS | |

**TAPE #31** TAPE ON - TC( ), SO( ), TO( ) | DAY 162/16:33 | GAIN 2.44 | 46 | CC-wwv |
|        | TAPE OFF - TC( ), SO( ), TO( ) | DAY 162/16:33 | |
|        | COMMENTS | |

**TAPE #32** TAPE ON - TC( ), SO( ), TO( ) | DAY 162/16:33 | GAIN 2.44 | 46 | CC-wwv |
|        | TAPE OFF - TC( ), SO( ), TO( ) | DAY 162/16:33 | |
|        | COMMENTS | |

**TAPE #33** TAPE ON - TC( ), SO( ), TO( ) | DAY 162/16:33 | GAIN 2.44 | 46 | CC-wwv |
|        | TAPE OFF - TC( ), SO( ), TO( ) | DAY 162/16:33 | |
|        | COMMENTS | |

**TAPE #34** TAPE ON - TC( ), SO( ), TO( ) | DAY 162/16:33 | GAIN 2.44 | 46 | CC-wwv |
|        | TAPE OFF - TC( ), SO( ), TO( ) | DAY 162/16:33 | |
|        | COMMENTS | |

**TAPE #35** TAPE ON - TC( ), SO( ), TO( ) | DAY 162/16:33 | GAIN 2.44 | 46 | CC-wwv |
|        | TAPE OFF - TC( ), SO( ), TO( ) | DAY 162/16:33 | |
|        | COMMENTS | |

**TAPE #36** TAPE ON - TC( ), SO( ), TO( ) | DAY 162/16:33 | GAIN 2.44 | 46 | CC-wwv |
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|        | COMMENTS | |</p>
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<th>TIME</th>
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<th>NO. OF TRIG.</th>
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</table>

COMMENTS
- HEADS CLEANED: CAMPERS YEAR SEIS WAS NOT DISTURBED. 38/50° TAPE CLEAR

47
Appendix B: Instrument gains

While most instrument constants remained fixed during the deployment, amplifier gains (output/input ratio) were adjusted daily to compensate for varying levels of seismicity, and were boosted substantially around day 157 in order to record a quarry blast. This appendix lists for each station the times of gain changes and the gain values employed. For all stations except PS1, gains were identical on all three channels.
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Appendix C: Clock corrections

When possible during the experiment, WWVB time code was recorded on the data tapes to enable measurement of the drift of each instrument's internal clock with respect to true (WWVB) time. To measure the clock correction (CC), the time of the leading edge of a recorded WWVB second pulse was measured according to the recorder's internal clock (INTERNAL TIME) and was compared with the true time of the pulse. The clock correction is defined by

\[ CC + \text{INTERNAL TIME} = \text{TRUE TIME}. \]

While this appendix contains an adequate sampling of clock corrections for determination of clock drift, not all clock corrections have been measured. Clock corrections measured in the field from strip chart records are denoted "FIELD." Because of power failure, time was reset for MGE and TWL during their deployments. The clock corrections labelled "EXTRAP" are extrapolated points based on each instrument's observed drift rate, and they are not actual measurements. They have been inserted at the times of power loss in order to facilitate linear interpolation of clock corrections. All clock corrections listed are accurate to ±0.005 s.
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Appendix D: Log of all recorded events

This appendix contains a list of times of all recorded events including WWVB recordings, sorted by integer minute, and a list of stations recording each event. The leftmost column contains the Julian day of the event and the next column to the right is the hour and minute that the event was recorded. The symbols "P" and "G" are used to indicate records lacking a P or S arrival, respectively, due to the late triggering of the instrument. The symbol "G" is used to denote a record which is unrecoverable garbage, usually due to instrument malfunction. The lack of one of these symbols next to an asterisk does not imply that the record is known to be good. We have examined most of the records from events recorded by three or more stations, so that lack of one of these symbols probably signifies a good record for those events. For events with only one or two recordings, record quality is unknown. In addition, about 200 of the events appearing in this table are recordings of WWVB time code.
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Appendix E: Events recorded on 3 or more stations

This appendix contains only those events from Appendix D which were recorded on 3 or more stations. Because this appendix is a distillation of appendix D, it suffers the same sorting ambiguities.
THE FOLLOWING 103 EVENTS WERE RECORDED ON 3 STATIONS

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