

**UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY**

**DATA REPORT FOR THE 1984 U.S. GEOLOGICAL SURVEY
CENTRAL COLUMBIA PLATEAU SEISMIC REFRACTION EXPERIMENT,
WASHINGTON-OREGON**



OPEN-FILE REPORT 88-226

This report (map) is preliminary and has not been reviewed for conformity with U.S. Geological Survey editorial standards (and stratigraphic nomenclature). Any use of trade names is for descriptive purposes only and does not imply endorsement by the U.S.G.S.

Menlo Park, California

1988

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

DATA REPORT FOR THE 1984 U.S. GEOLOGICAL SURVEY
CENTRAL COLUMBIA PLATEAU SEISMIC REFRACTION EXPERIMENT,
WASHINGTON-OREGON

JOSEPH A. COTTON AND R. D. CATCHINGS ¹

OPEN-FILE REPORT 88-226

This report is preliminary and has not been reviewed for conformity with U.S. Geological Survey editorial standards and stratigraphic nomenclature. Any use of trade names is for descriptive purposes only and does not imply endorsement by the U.S.G.S.

¹

U.S.G.S. Menlo Park, California

1988

TABLES OF CONTENTS

| | Page |
|---|------|
| Introduction..... | 1 |
| Description of Survey..... | 1 |
| Instrumentation and Data Reduction..... | 3 |
| Acknowledgements..... | 4 |
| References Cited..... | 4 |
| Appendix A: Field Data Sheets and Tape Grade Codes..... | 29 |
| Appendix B: Archive Data Tape Format..... | 55 |

FIGURES

| | |
|--|----|
| 1. Geologic Map Showing Shotpoint and Recorder Locations..... | 2 |
| 2. Record Section of Shots 1 and 5 | 5 |
| 3. Record Section of Shots 4 and 6 | 6 |
| 4. Record Section of Shots 2 and 7..... | 7 |
| 5. Record Section of Shots 3 and 8 | 8 |
| 6. Record Section of Shots 1 and 5 (RV= 7.4 km/s)..... | 9 |
| 7. Record Section of Shots 4 and 6 (RV= 7.4 km/s)..... | 10 |
| 8. Record Section of Shots 2 and 7 (RV= 7.4 km/s)..... | 11 |
| 9. Record Section of Shots 3 and 8 (RV= 7.4 km/s)..... | 12 |
| 10. Record Section of Shots 1 and 5 (Variable Area)..... | 13 |
| 11. Record Section of Shots 4 and 6 (Variable Area)..... | 14 |
| 12. Record Section of Shots 2 and 7 (Variable Area)..... | 15 |
| 13. Record Section of Shots 3 and 8 (Variable Area)..... | 16 |
| 14. Record Section of Shots 4 and 6 (Short Variable Area)..... | 17 |
| 15. Record Section of Shots 2 and 7 (Short Variable Area)..... | 18 |
| 16. Schematic Diagram of Seismic Recorders..... | 19 |
| 17. Schematic Diagram of the System Response Curve..... | 20 |

TABLES

| | |
|---|----|
| 1. Master Shot List (Shot Location and Time)..... | 21 |
| 2. Seismic Recorder Location..... | 22 |

INTRODUCTION

In August 1984, the U.S. Geological Survey, in conjunction with the Department of Energy (DOE)/ Rockwell Hanford Operations, conducted a long-range seismic refraction/wide-angle reflection survey across the central Columbia Plateau (CCP). This report catalogs seismic data collected along a NW-SE transect (CCP transect). The CCP transect was centered on the Hanford Site and trended approximately N 50° E, from north-central Oregon to east-central Washington (Figure 1).

The primary objectives of this survey were to evaluate the crustal and upper mantle velocity structure of the CCP and to evaluate the nature of the of the Columbia River Basalt Group (CRBG). An interpretation of the data has been published in a report by Catchings and Mooney (1988). Their analysis provides important constraints on the regional and tectonic evolution of the Columbia Plateau, as well as a information about the local geologic and tectonic setting of the Hanford Site, a proposed high-level nuclear waste repository and the site of existing nuclear facilities.

Included in this report are seismic record sections (Figures 2-15), lists of shot times, recorder and shotpoint locations (Tables 1 & 2), data files, and a tape grade scale (Appendix A). The data have been archived at the National Oceanic and Atmospheric Administration (N.O.A.A.). Tapes may be obtained at the

National Geophysical Data Center
National Oceanic and Atmospheric Administration
325 Broadway
Boulder, CO., 80303

Appendix B contains a description of the tape formats.

DESCRIPTION OF SURVEY

The 1984 CCP transect consisted of a 260-km-long profile, trending roughly N 50° E from approximately 30 km southeast of Wasco, Oregon to northeast of Warden, Washington. The transect was centered on the Hanford Nuclear Site in the Pasco Basin. The transect was recorded in two deployments, which were designated the Wasco line and the Warden line. The Wasco line (the southern half of the profile) extended from southeast of Wasco, Oregon to the Hanford Site. The Warden line (the northern part of the profile) extended from the Hanford Site to northeast of Warden, Washington.

Altogether 240 recordings sites were occupied along the transect by the USGS's portable, FM seismic cassette recorders (SCR's) described by Healy et

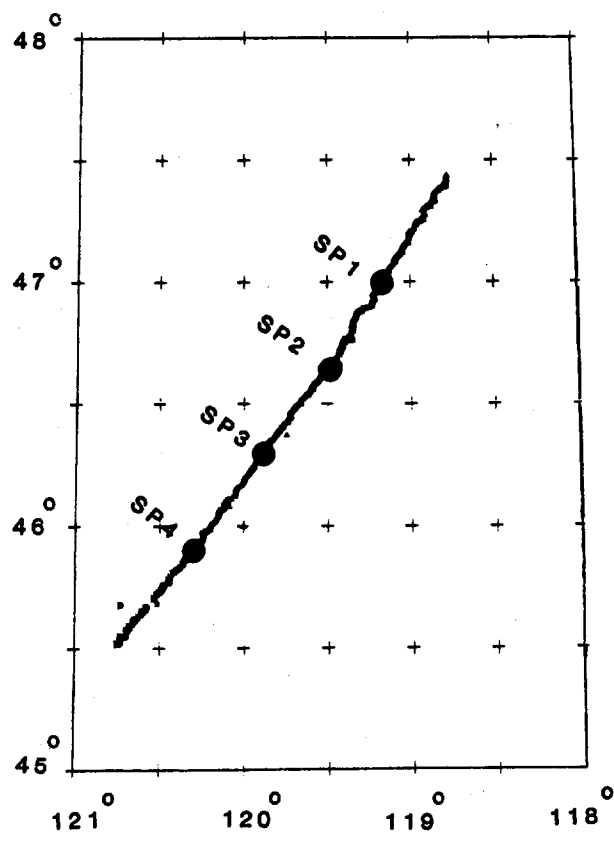
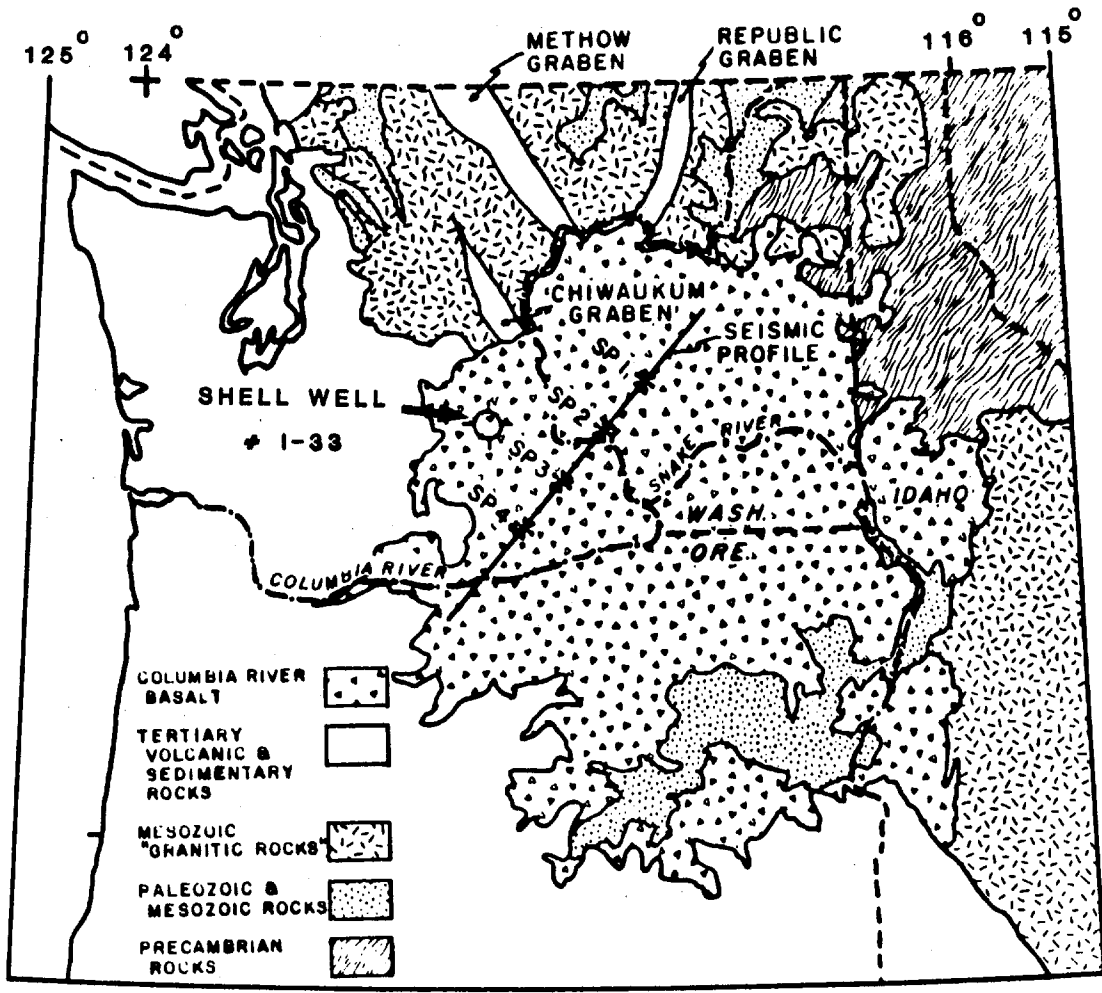


Figure 1: Geologic map and location map of shotpoints and recorders along the 1984 USGS central Columbia Plateau transect.

al., (1982). Average recorder site spacing ranged from 930 meters between the shotpoints to 1300 meters beyond the outermost shotpoints. A split-spread configuration was employed for each shotpoint, whereby seismographs were deployed northeast and southwest of each shotpoint. Sources were generated from a total of eight 900- to 2000-kg explosions located at four separate shotpoints, spaced approximately 50 km apart (the two outer shot were located 60 km from the ends of the profile). Explosives were detonated in 20-cm (diameter) drillholes ranging in depth from 40 to 60 meters. The drillholes were loaded with ammonium nitrate explosives, boosters, and detonating cord, and tamped with approximately 20 meters of gravel. Explosives were detonated by an automated shooting system described by Healy et al. (1982). A signal from a reference chronometer triggered the shooting system by igniting a electrical blasting cap. The cap break, and two time-code signals, WWVB and IRIG E, were recorded on paper strip charts, from which origin times were subsequently determined. Assuming explosion and cap break were instantaneous, shot times maintained an accuracy to within ± 2 milliseconds.

Recorder locations, shotpoint locations, and elevations, were determined from USGS orthophotographs (1:24000) and topographic maps (1:24000 and 1:62500) and are estimated to be accurate to within 10 meters. Locations were checked using Brunton compass readings, precision odometers, and vehicle odometers.

Information pertaining to shot location and reference time can be found in Tables 1 & 2.

INSTRUMENTATION AND DATA REDUCTION

Seismic Recorders

The USGS seismic refraction recording system consists of an analog cassette tape recording system and a vertical-component, 2-Hz geophone (Figure 16). The seismic signal received by the geophone is diverted through three parallel amplifiers, each with an adjustable gain setting (0 to 104 db). The three amplified seismic signals, a constant reference frequency, and a internally generated time code (IRIG E) are recorded as a multiplexed signal in analog form on a 30-minute cassette tape (Figure 16). Each recorder contains a time code generator which allows pre-programming of ten separate time windows.

Prior to the shot time, a pre-programmed micro-processor within the seismic recorder performs a geophone release test, an amplification step, and a calibration sequence consisting of a sine wave with a frequency of 10 Hz and amplitudes of 1, 10, 100, and 1000 microvolts. The response curve for the system peaks at approximately 20 Hz (Figure 17). The tests are recorded on the cassettes and can be referenced during processing for evaluation of

performance quality of the seismic recorder.

Data Reduction

Information pertaining to the performance of each SCR was recorded on field data sheets (Appendix A) and chronometer corrections were determined for each recorder assuming a linear drift rate. Twenty seconds of the recorded seismic data were converted from analog to digital format at a sampling rate of 2 milliseconds. Digitization began at:

$$T = \text{SHOT TIME} - 2 \text{ SECONDS} + X/6.0 \text{ km/s}$$

where X is the distance in kilometers from the shotpoint to the recorder in question. Following the digitization process, each trace was evaluated and assigned a tape grade code (Appendix A). The information was entered into a micro-processor and stored on a floppy disk.

The record sections shown in (Figures 2-15) are plotted with a maximum trace amplitude normalized to a common value. Sections are presented with reducing velocities of 6.0 km/s (with and without variable area shading) and 7.4 km/s.

AKNOWLEDGEMENTS

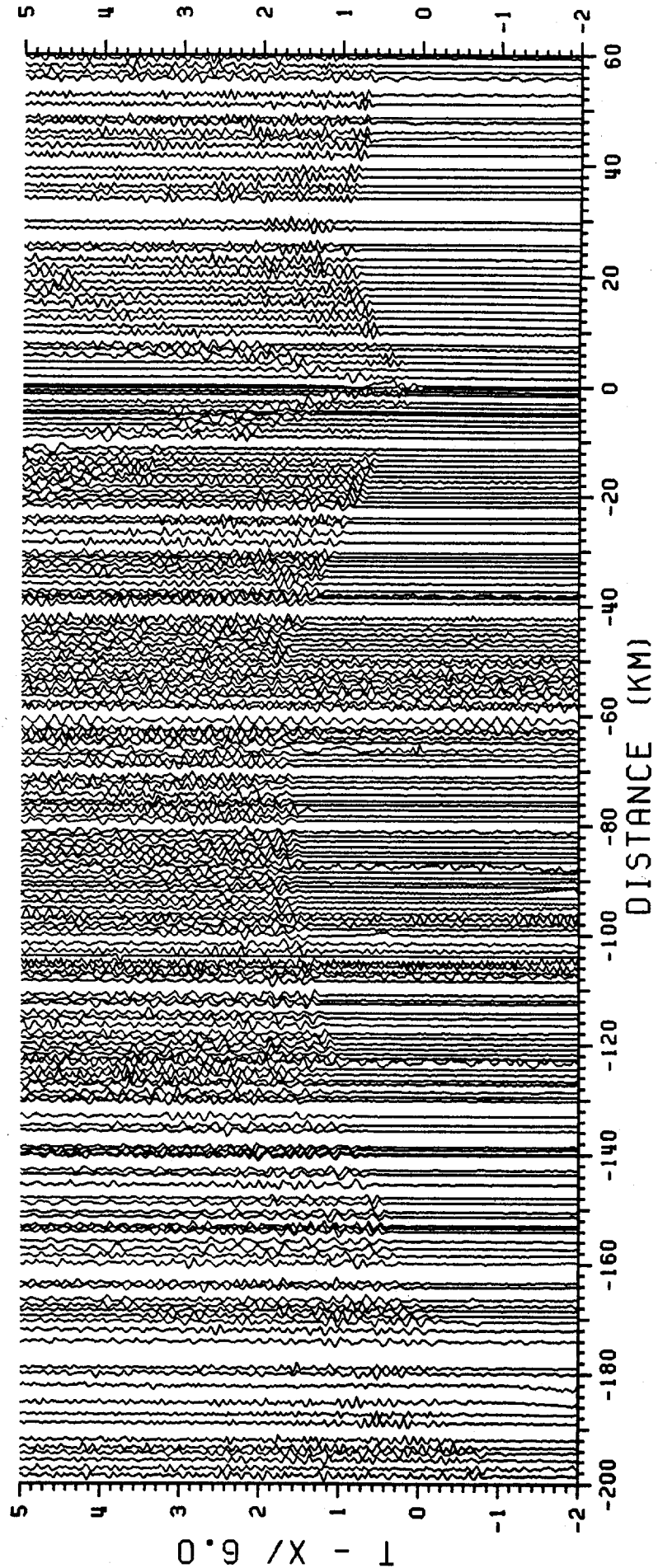
We would like to thank Walter Mooney and the USGS seismic refraction field crew, Thomas Reed, Vicki Sutton, David James, Ed Criley, Ron Kaderabek, Janice Murphy, Lorraine Hwang, Bob Colburn, Pat Meador, Nan McGregor-Scott, Julie Shemeta, and Wendy Grant, for their technical support. We'd like to thank Ann Tolman, Al Rohay, and the people at Rockwell/Hanford for their assistance in obtaining permits and passes for the field work. We are indebted to J.H. Luetgert and W. Kohler for supplying their seismic processing software and suggestions.

REFERENCES CITED

Barry, K.M., Cavers, D.A., and Kneale, C.W., 1975, Recommended standards for digital tape formats, *Geophysics* 40, 344-352 p.

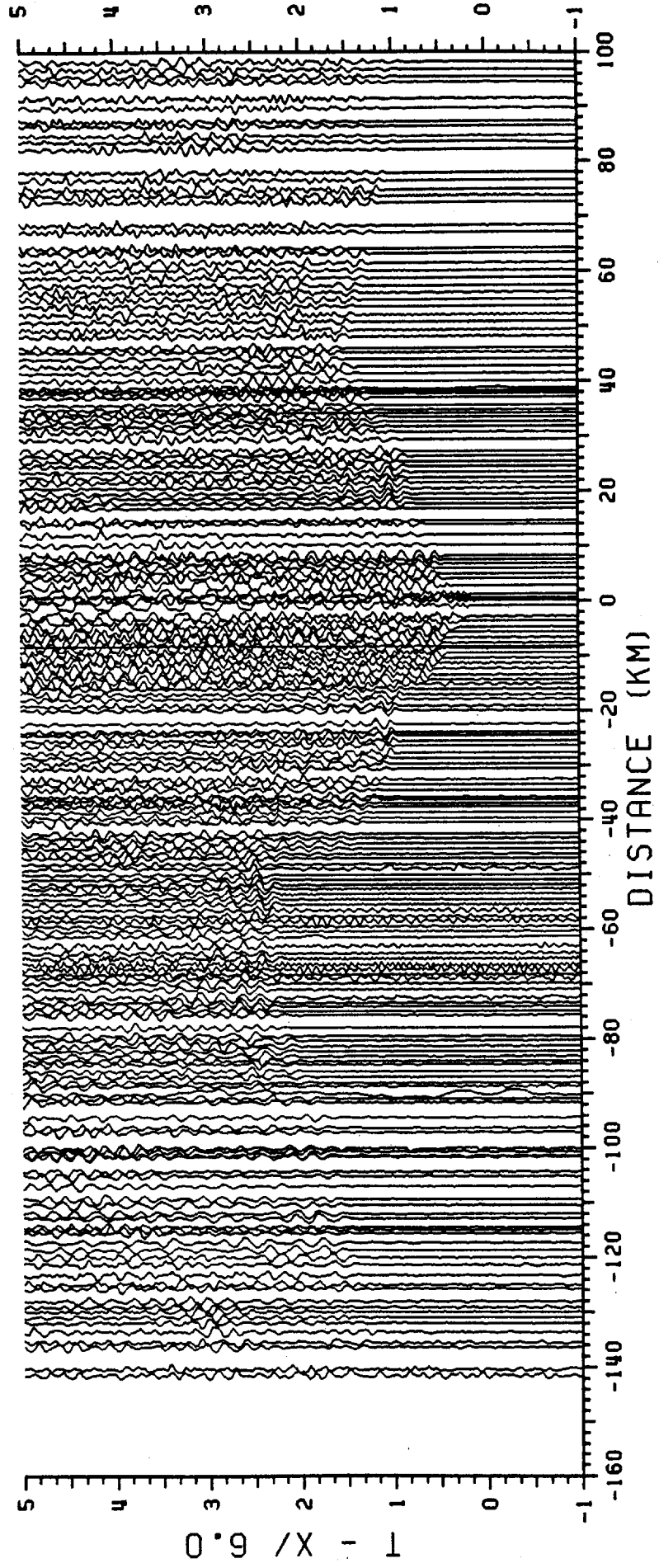
Catchings, R.D., and Mooney, W.D., 1988, Crustal structure of the Columbia Plateau: Evidence for continental rifting, *Jour. Geophys. Res.*, 93, 459-474 p.

Healy, J.H., Mooney, W.D., Blank, H.R., Gettings, M.E., Kohler, W.M., Lamson, R.J., and Leone, L.E., 1982, Saudi Arabian seismic deep-refraction profile: Final project report:, U.S. Geological Survey Open File Report USGS-of-02-37, 429 p.



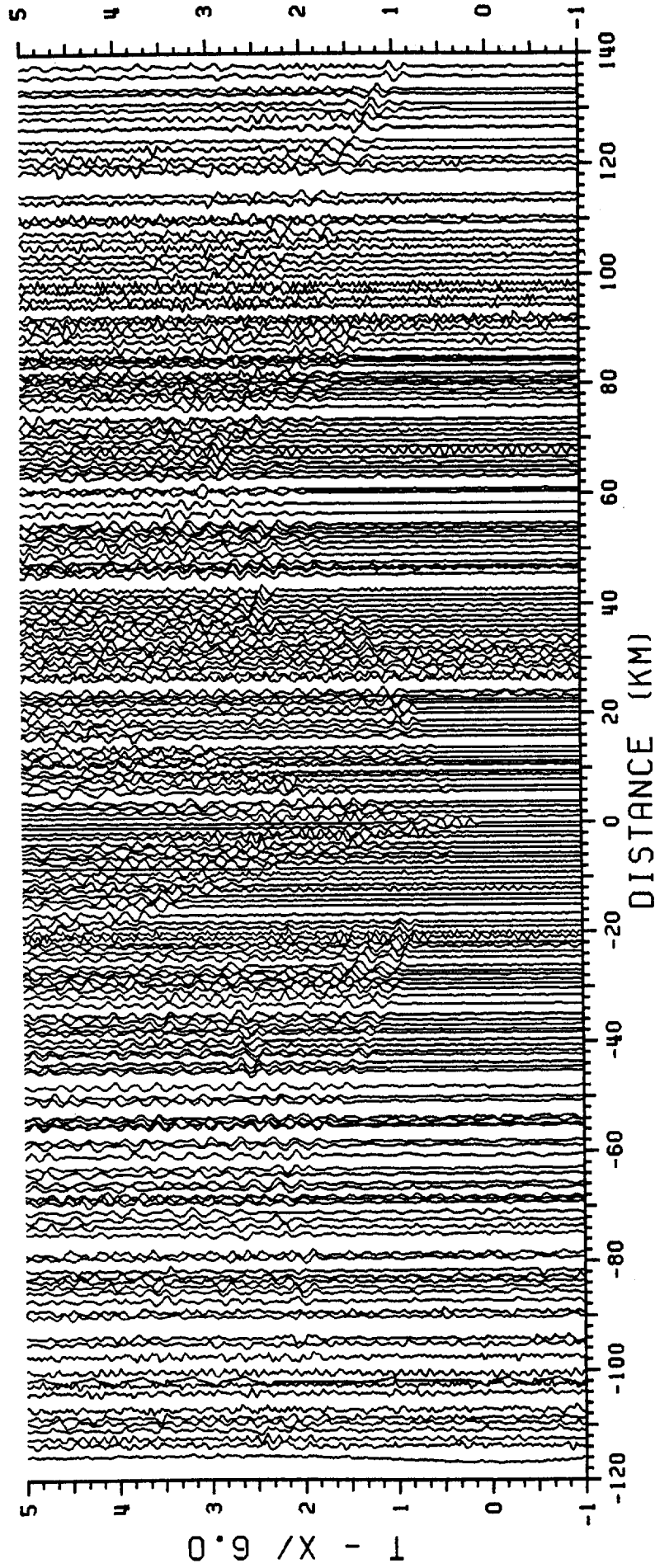
SHOTPOINT 1, SHOTS 1&5

FIGURE 2: RECORD SECTION FROM THE 1984 CENTRAL COLUMBIA PLATEAU SEISMIC SURVEY



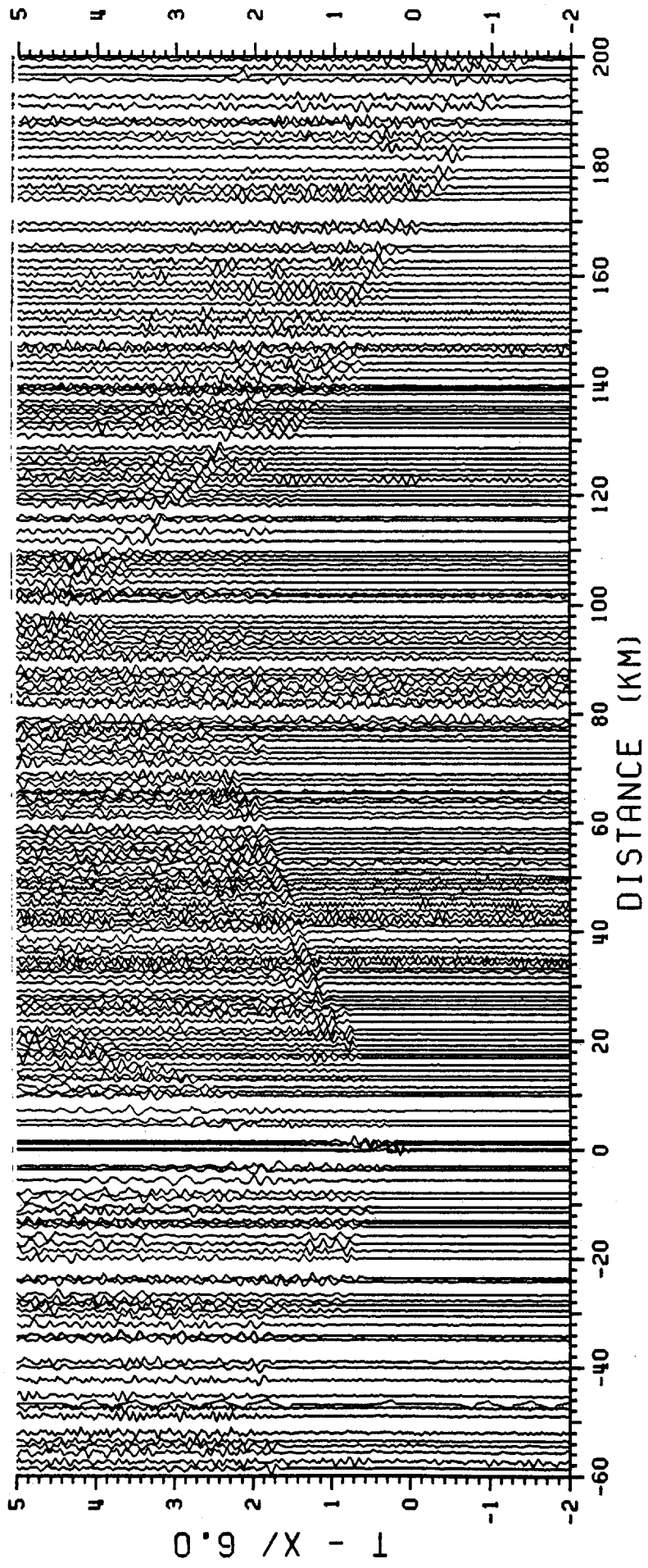
SHOTPOINT 2, SHOTS 4&6

FIGURE 3: RECORD SECTION FROM THE 1984 CENTRAL COLUMBIA PLATEAU SEISMIC SURVEY



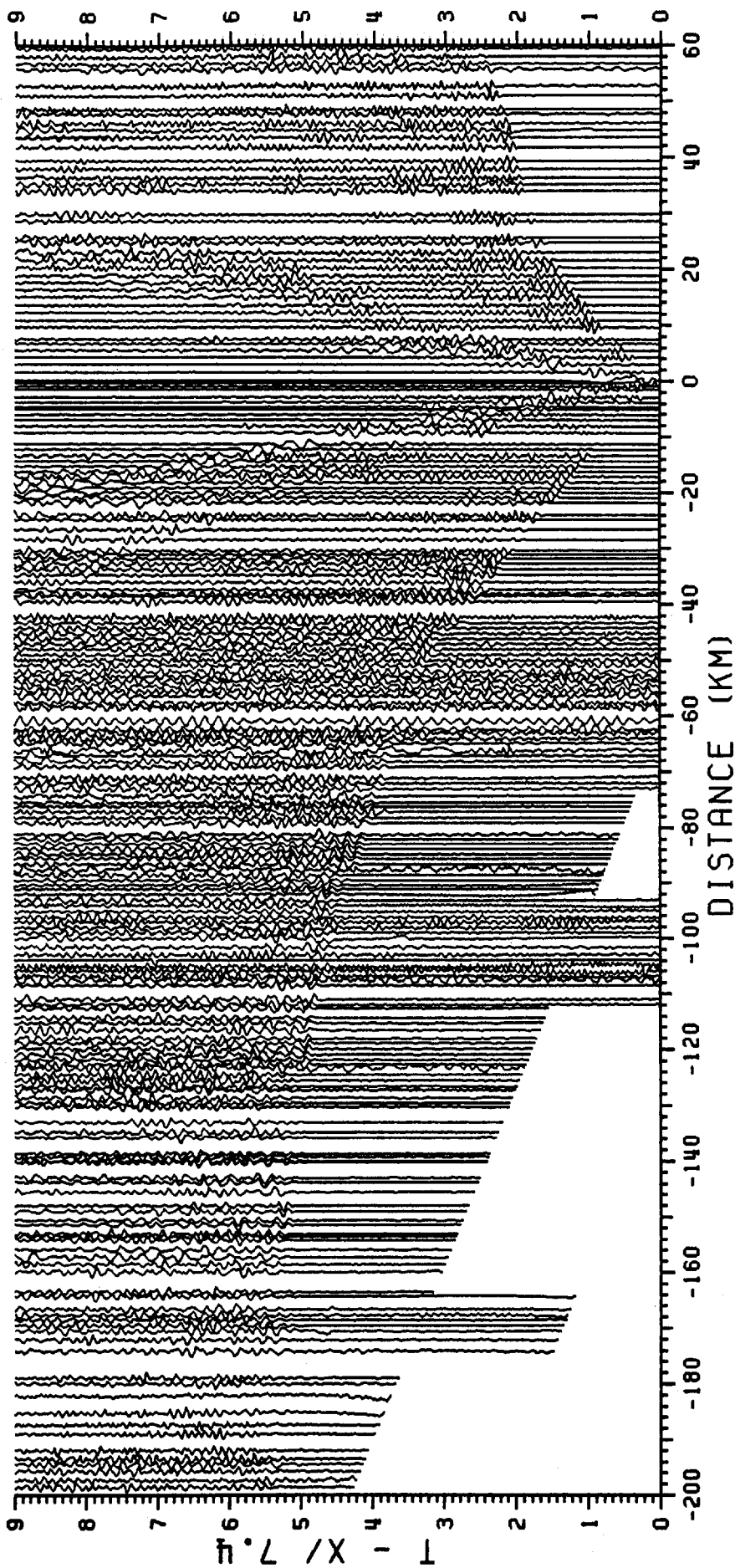
SHOTPOINT 3, SHOTS 2&7

FIGURE 4: RECORD SECTION FROM THE 1984 CENTRAL COLUMBIA PLATEAU SEISMIC SURVEY



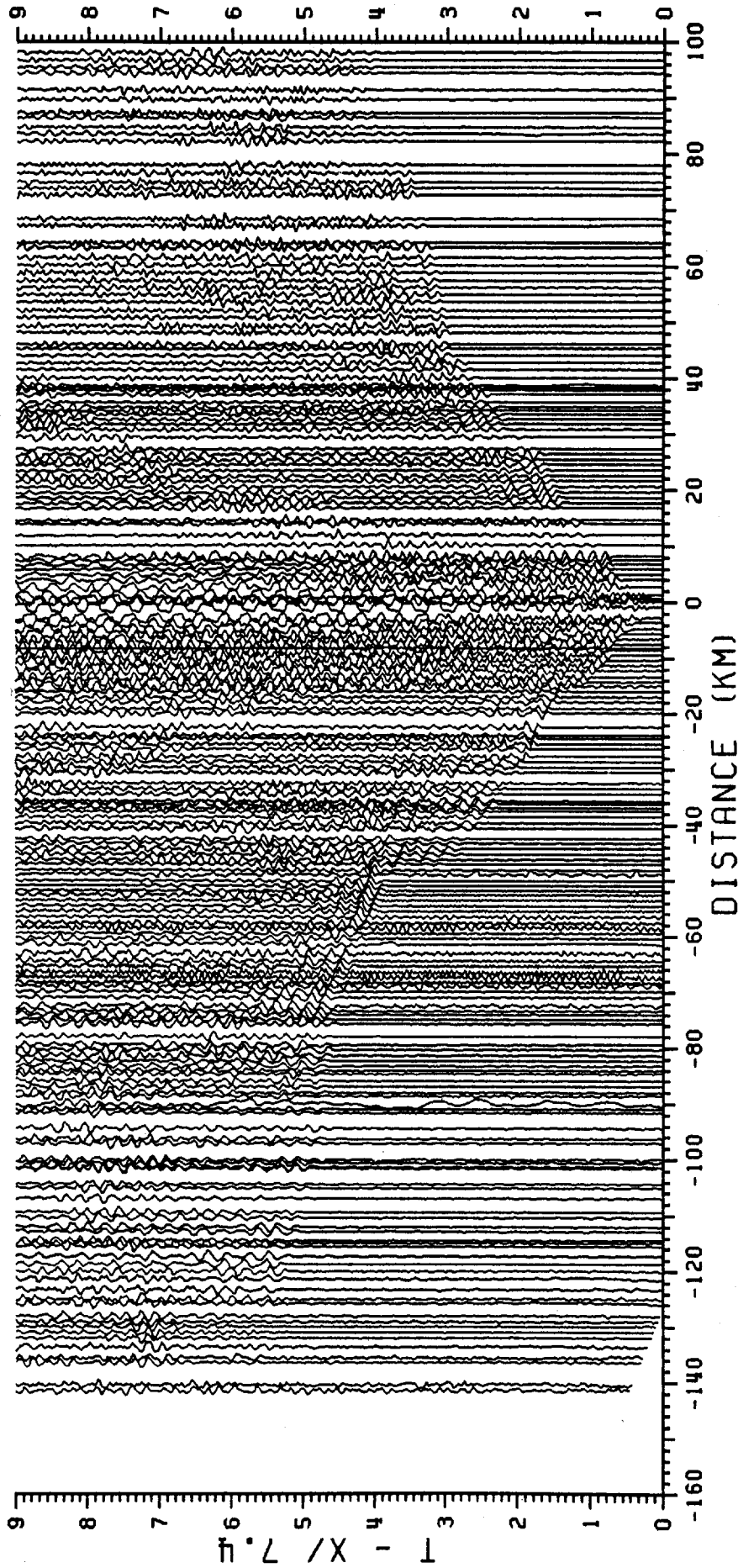
SHOTPOINT 4, SHOTS 3&8

FIGURE 5: RECORD SECTION FROM THE 1984 CENTRAL COLUMBIA PLATEAU SEISMIC SURVEY



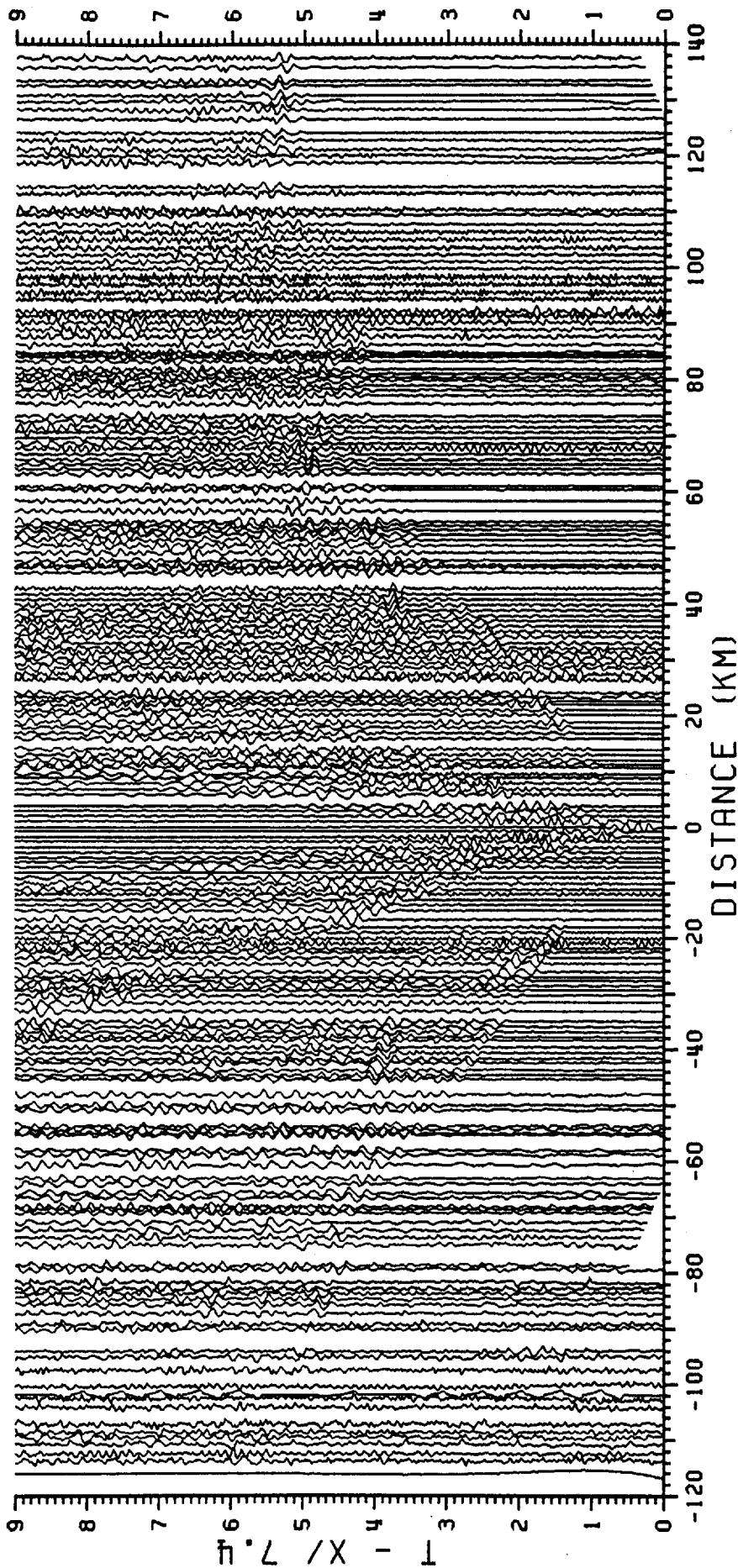
SHOTPOINT 1, SHOTS 1&5 (REDUCED VELOCITY 7.4 km/s)

FIGURE 6: RECORD SECTION FROM THE 1984 CENTRAL COLUMBIA PLATEAU SEISMIC SURVEY



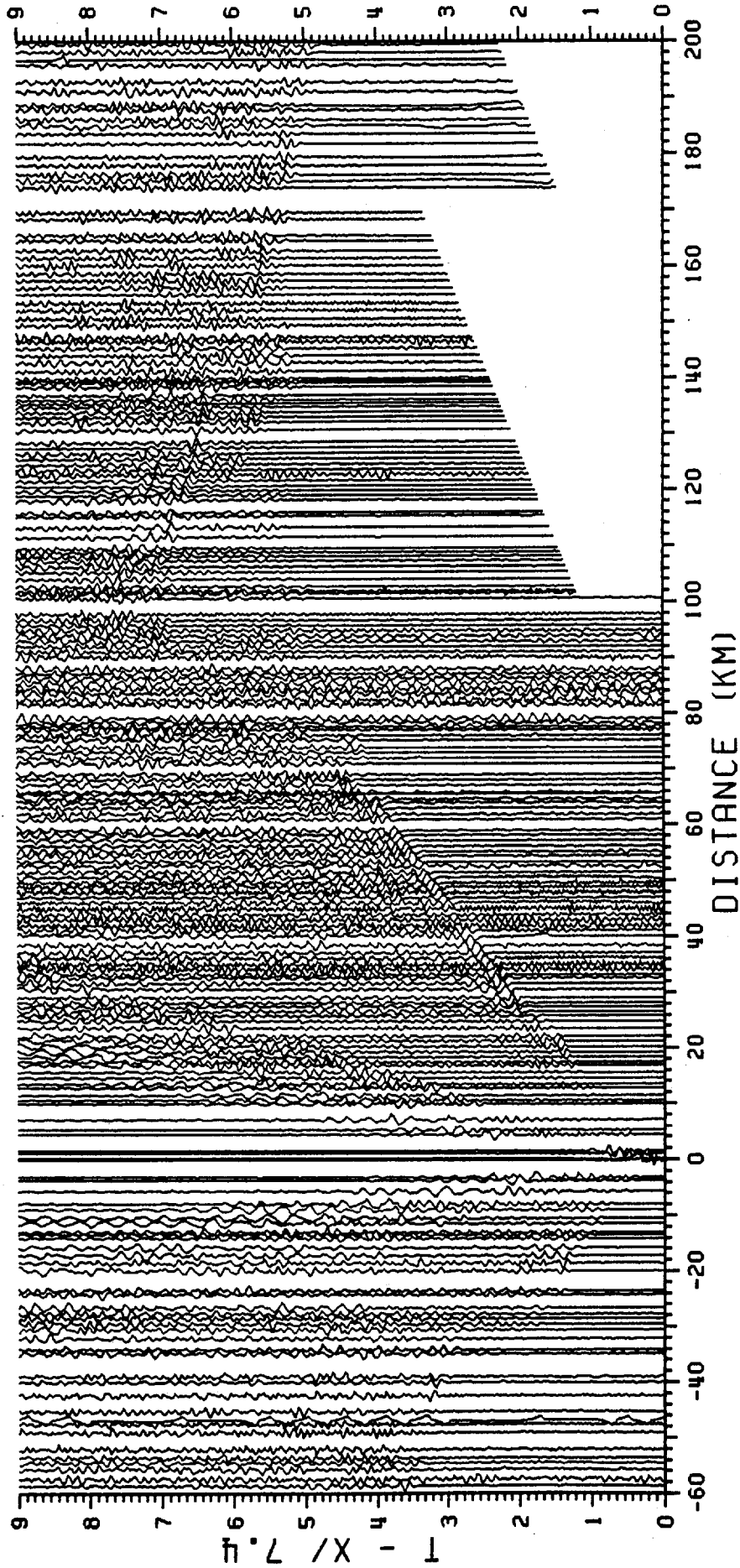
SHOTPOINT 2, SHOTS 4&6 (REDUCED VELOCITY 7.4 km/s)

FIGURE 7: RECORD SECTION FROM THE 1984 CENTRAL COLUMBA PLATEAU SEISMIC SURVEY



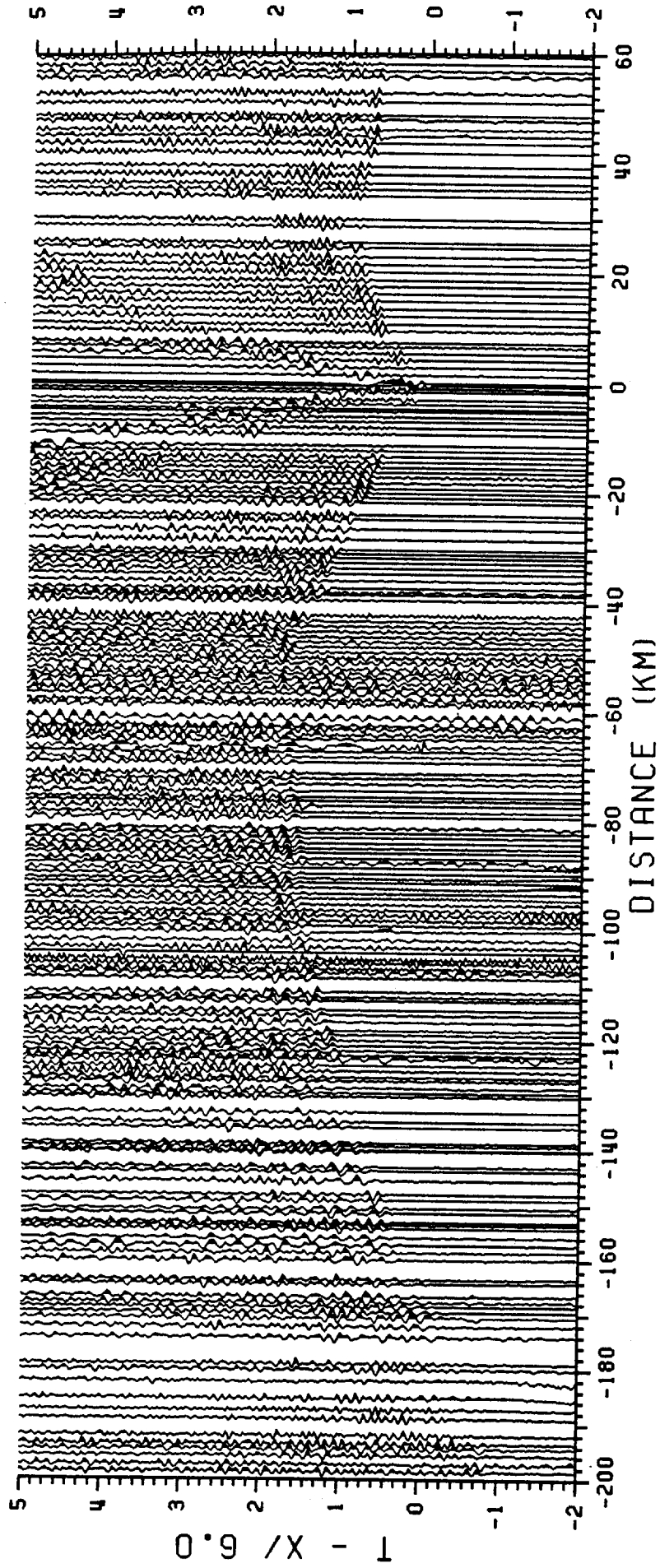
SHOTPOINT 3, SHOTS 2&7 (REDUCED VELOCITY 7.4 km/s)

FIGURE 8: RECORD SECTION FROM THE 1984 CENTRAL COLUMBIA PLATEAU SEISMIC SURVEY



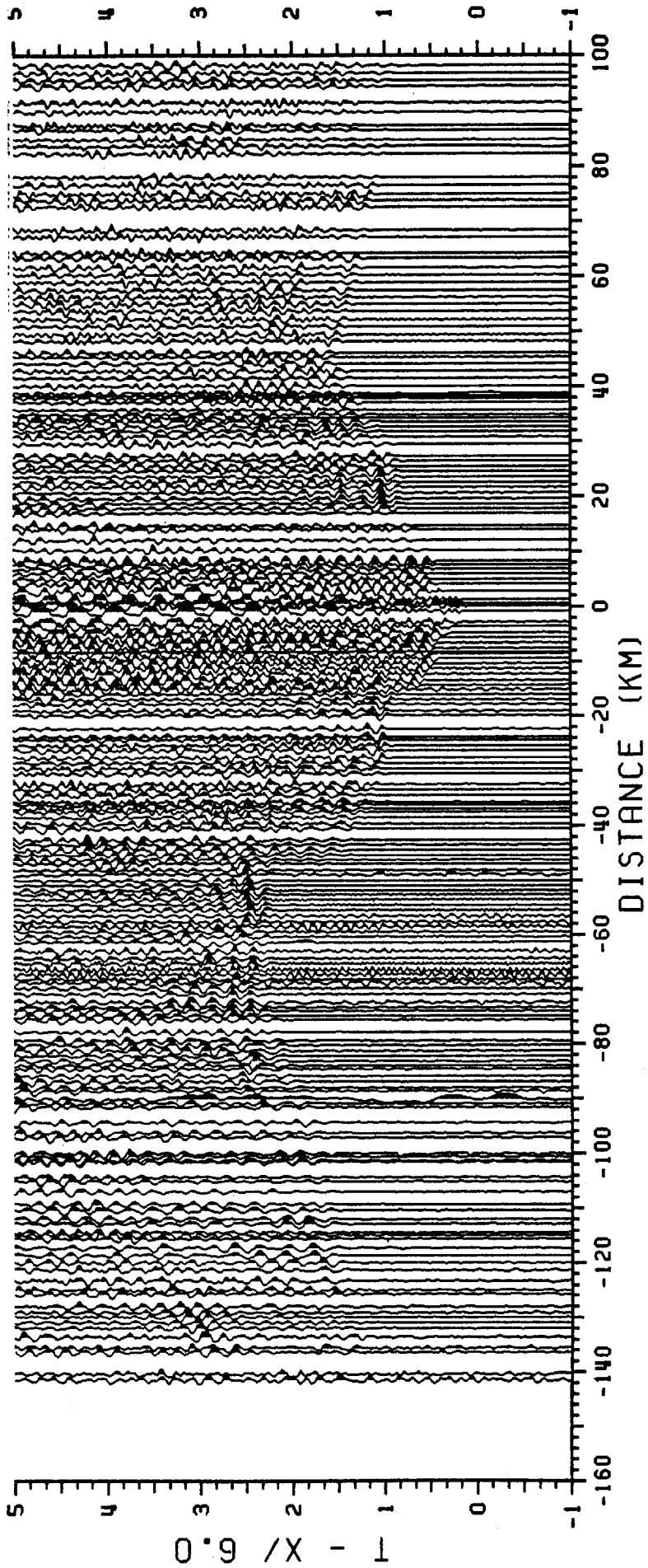
SHOTPOINT 4, SHOTS 3&8 (REDUCED VELOCITY 7.4 km/s)

FIGURE 9: RECORD SECTION FROM THE 1984 CENTRAL COLUMBIA PLATEAU SEISMIC SURVEY



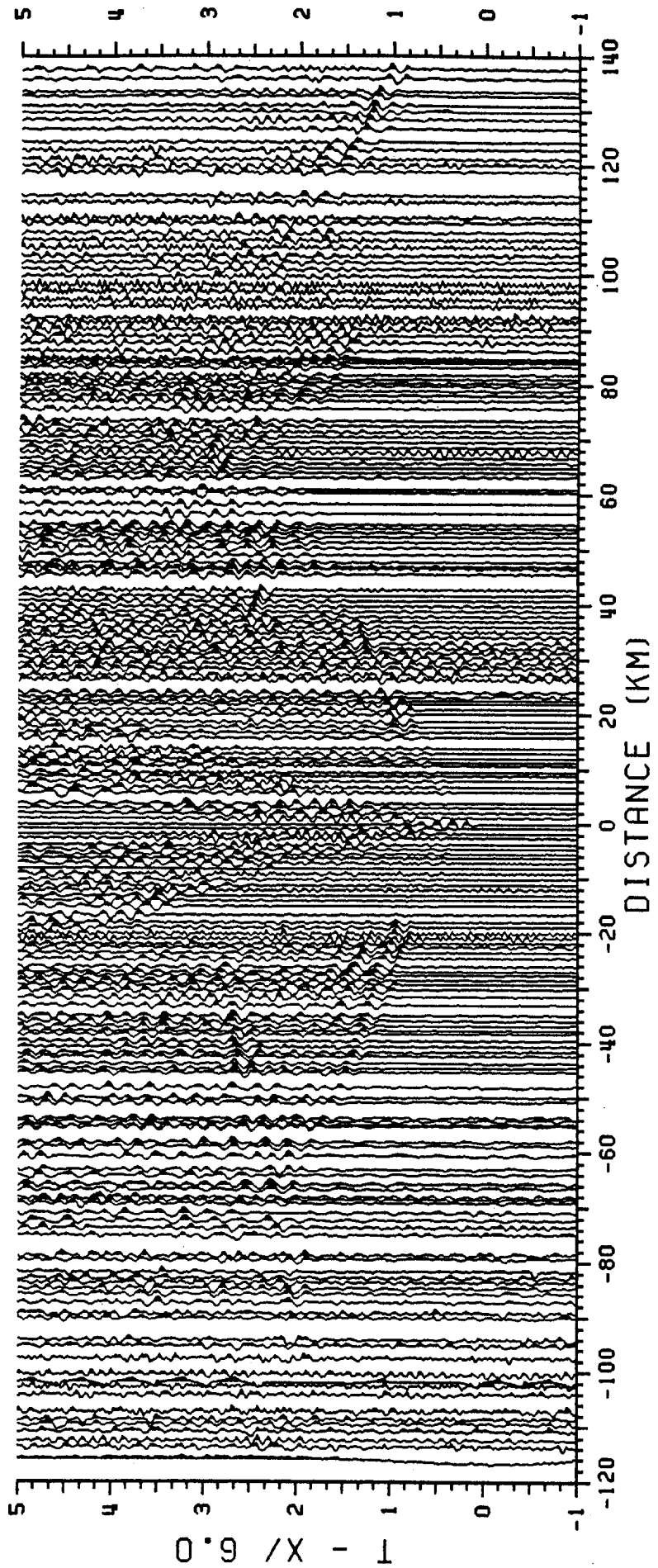
SHOTPOINT 1, SHOTS 1&5 (VARIABLE AREA)

FIGURE 10: RECORD SECTION FROM THE 1984 CENTRAL COLUMBIA PLATEAU SEISMIC SURVEY



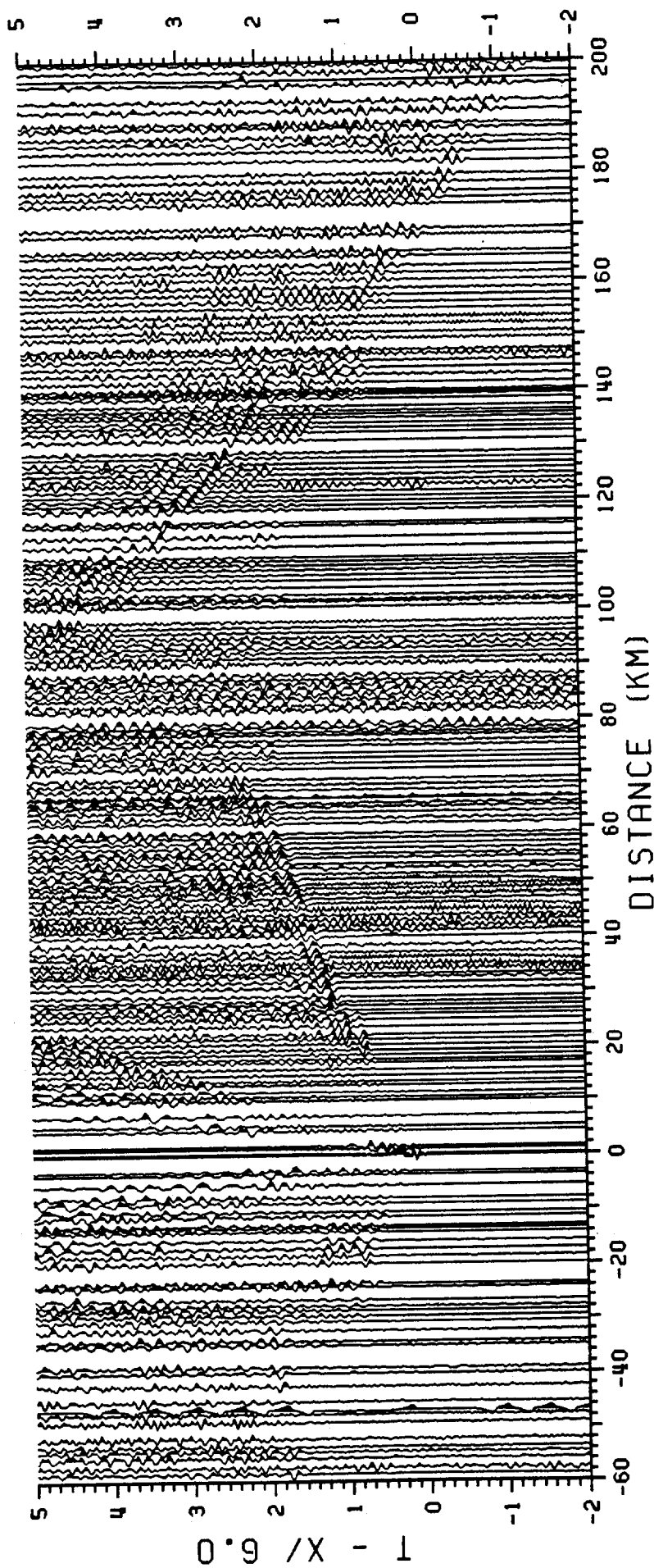
SHOTPOINT 2, SHOTS 4&6 (VARIABLE AREA)

FIGURE 11: RECORD SECTION FROM THE 1984 CENTRAL COLUMBIA PLATEAU SEISMIC SURVEY



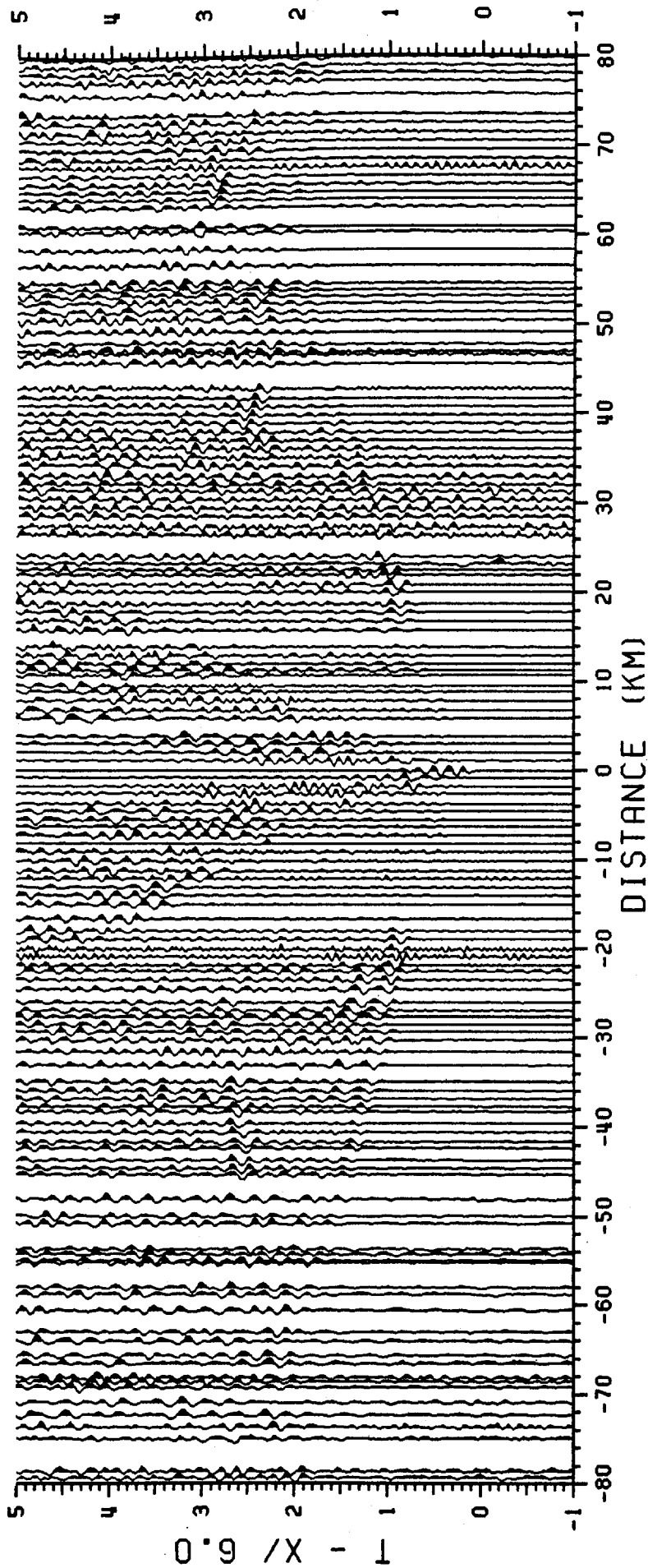
SHOTPOINT 3, SHOTS 2&7 (VARIABLE AREA)

FIGURE 12: RECORD SECTION FROM THE 1984 CENTRAL COLUMBIA PLATEAU SEISMIC SURVEY



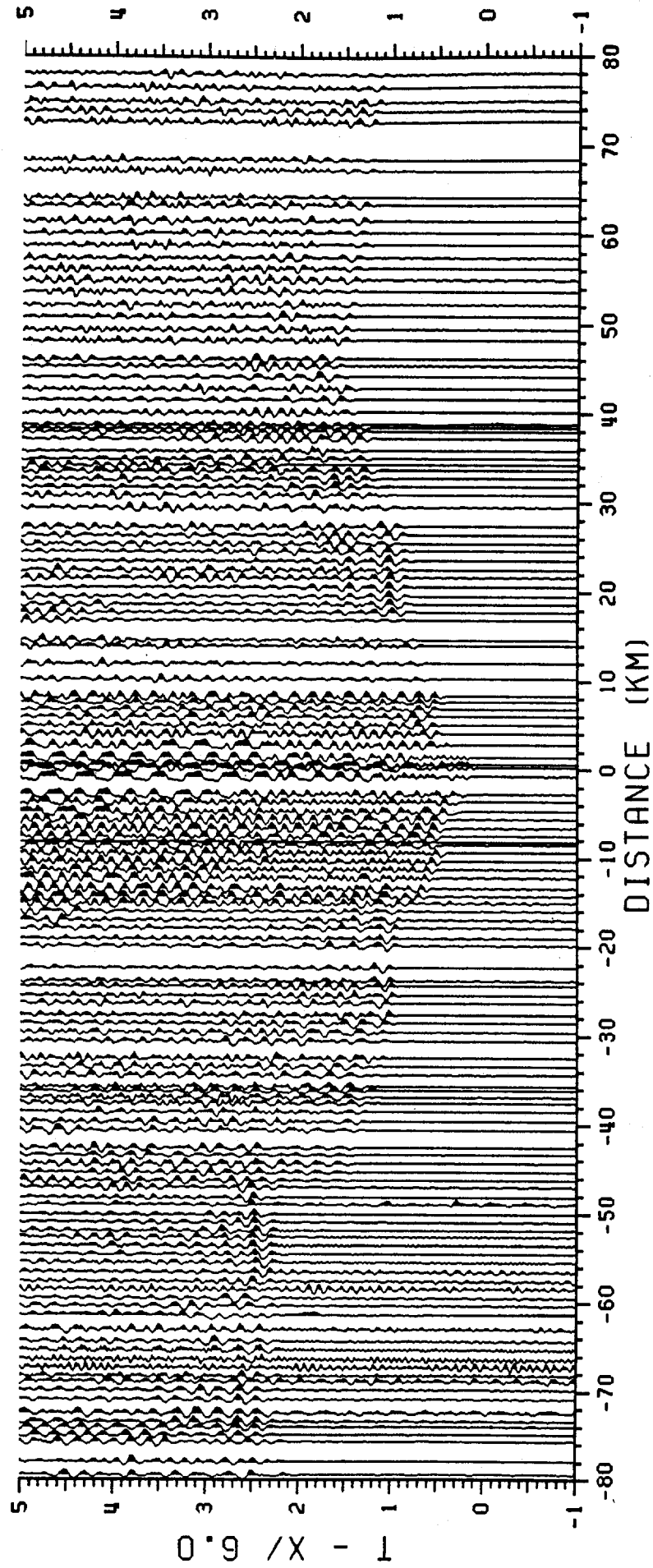
SHOTPOINT 4, SHOTS 3&8 (VARIABLE AREA)

FIGURE 13: RECORD SECTION FROM THE 1984 CENTRAL COLUMBIA PLATEAU SEISMIC SURVEY



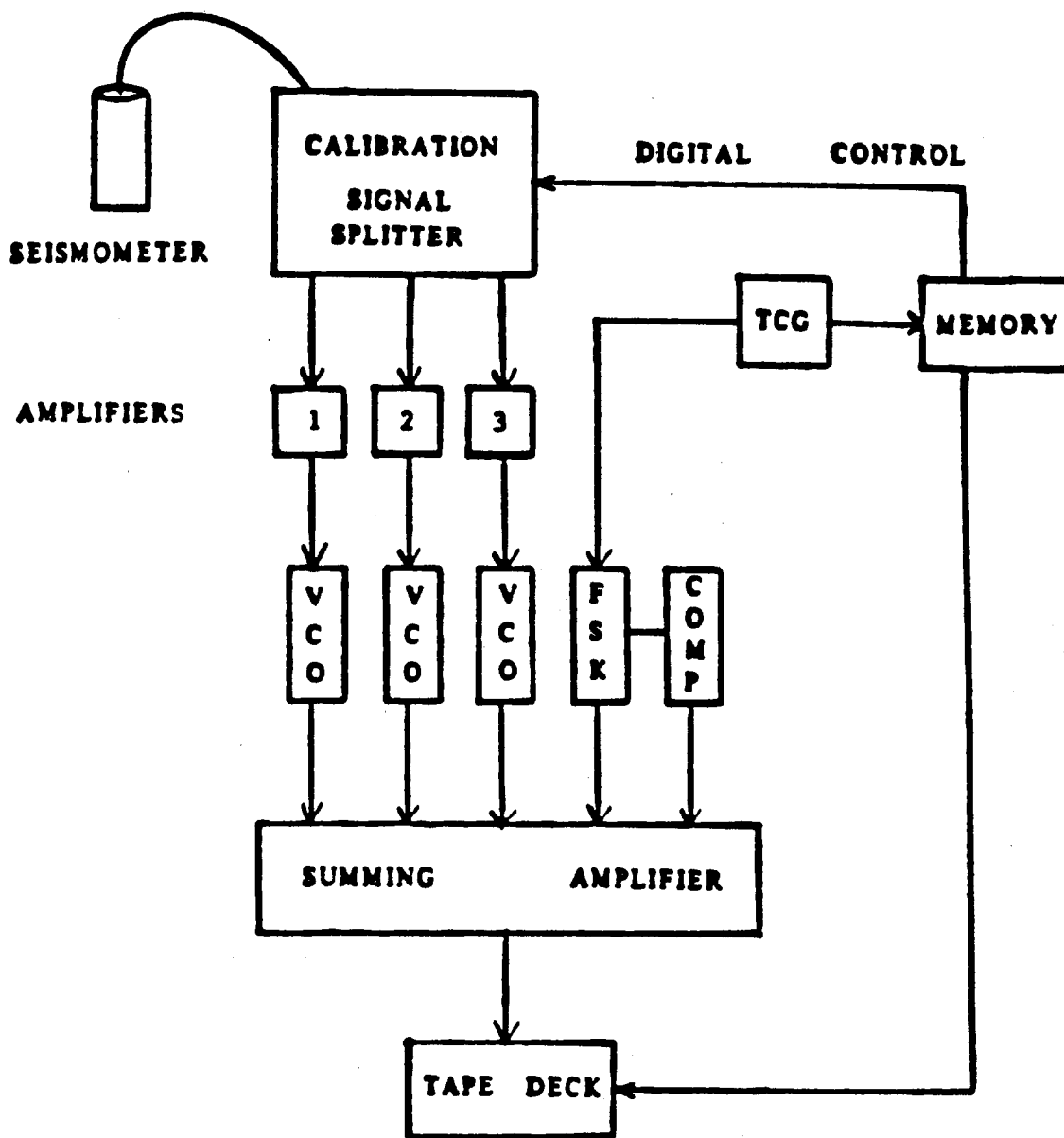
SHOTPOINT 2, SHOTS 4&6 (UPPER CRUSTAL VARIABLE AREA)

FIGURE 14: RECORD SECTION FROM THE 1984 CENTRAL COLUMBIA PLATEAU SEISMIC SURVEY



SHOTPOINT 3, SHOTS 2&7 (UPPER CRUSTAL VARIABLE AREA)

FIGURE 15: RECORD SECTION FROM THE 1984 CENTRAL COLUMBIA PLATEAU SEISMIC SURVEY



COMP = TAPE SPEED TONE GENERATOR
 FSK = FREQUENCY SHIFT KEYING
 TCG = TIME CODE GENERATOR
 VCO = VOLTAGE-CONTROLLED OSCILLATOR

Figure 16: Schematic diagram of seismic recorders.

CASSETTE RECORDER RESPONSE

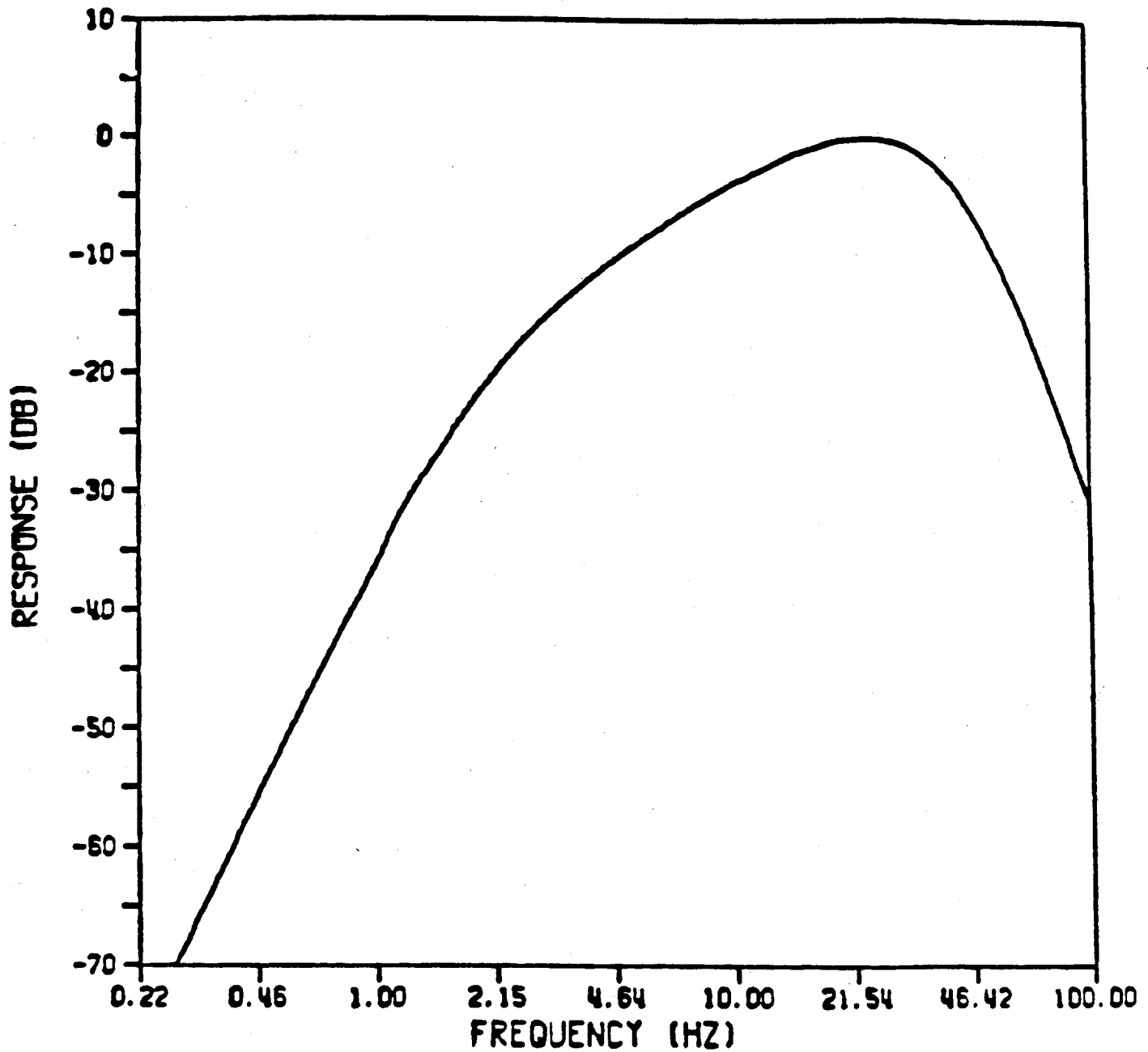


Figure 17: System Response Curve for cassette recording units with 2-Hz seismometers.

Table 1: Master Shot List. Contains shot number, shotpoint number, date (calendar, Julian), shot time (GMT), and latitude/longitude (degree, minute, and seconds).

MASTER SHOT LIST (SHOT LOCATIONS AND TIMES)

HANFORD 1984

| SHOT | SHOTPOINT | DATE | LATITUDE (East) | LONGITUDE (North) | SHOT TIME | | |
|------|-----------|----------------|--------------------|----------------------|-----------|-------|--------|
| | | | | | DAY | HR | MN SEC |
| 1 | 1 | AUG., 19, 1984 | 46 58.2372 | 119 11.7467 | 232 | 10 59 | 59.989 |
| 2 | 3 | AUG., 19, 1984 | 46 20.8768 | 119 50.2982 | 232 | 11 04 | 00.011 |
| 3 | 4 | AUG., 19, 1984 | 45 56.4471 | 120 14.7771 | 232 | 11 06 | 00.016 |
| 4 | 2 | AUG., 19, 1984 | 46 40.5734 | 119 27.9662 | 232 | 11 32 | 00.010 |
| 5 | 1 | AUG., 23, 1984 | 46 58.2372 | 119 11.7467 | 236 | 09 00 | 00.014 |
| 6 | 2 | AUG., 23, 1984 | 46 40.5734 | 119 27.9662 | 236 | 09 02 | 00.012 |
| 7 | 3 | AUG., 23, 1984 | 46 20.8768 | 119 50.2982 | 236 | 09 04 | 00.015 |
| 8 | 4 | AUG., 23, 1984 | 45 56.4471 | 120 14.7771 | 236 | 09 06 | 00.012 |

TABLE 2

Seismic Recorder Locations

Table 2 contains a listing of the seismic recorder locations. Included are location numbers of the seismic recorder sites, the latitude and longitude in degrees, minutes, and seconds, and the elevation of the seismic recorder site in feet.

U.S.G.S. SEISMIC STATION LOCATIONS

23

HANFORD 1984

| LOCATION NUMBER | LATITUDE (DEG,MIN,SEC) | LONGITUDE (DEG,MIN,SEC) | ELEV | NOTES |
|--------------------|---------------------------|----------------------------|------|-------|
| 1 | 45 31 9.0 | 120 44 54.4 | 2060 | |
| 2 | 45 31 17.0 | 120 43 41.8 | 2045 | |
| 3 | 45 32 3.6 | 120 43 41.8 | 900 | |
| 4 | 45 32 53.3 | 120 43 39.8 | 1725 | |
| 5 | 45 32 51.2 | 120 41 28.3 | 1680 | |
| 6 | 45 33 44.6 | 120 41 36.0 | 1485 | |
| 7 | 45 34 20.9 | 120 41 32.6 | 1485 | |
| 8 | 45 34 45.1 | 120 40 24.7 | 1485 | |
| 9 | 45 35 30.5 | 120 40 43.0 | 1475 | |
| 10 | 45 36 3.1 | 120 38 59.4 | 1440 | |
| 11 | 45 37 9.6 | 120 39 2.9 | 1400 | |
| 12 | 45 37 3.1 | 120 38 2.6 | 1450 | |
| 13 | 45 37 40.9 | 120 37 15.9 | 1520 | |
| 14 | 45 38 22.9 | 120 36 6.3 | 1340 | |
| 15 | 45 38 57.1 | 120 35 58.0 | 1335 | |
| 16 | 45 39 8.9 | 120 35 0.7 | 1150 | |
| 17 | 45 39 50.5 | 120 34 38.4 | 1030 | |
| 18 | 45 40 18.1 | 120 34 10.9 | 1060 | |
| 19 | 45 40 45.6 | 120 43 37.6 | 290 | |
| 20 | 45 41 7.9 | 120 30 33.5 | 150 | |
| 21 | 45 42 20.7 | 120 31 51.2 | 380 | |
| 22 | 45 43 8.9 | 120 30 49.5 | 400 | |
| 23 | 45 43 46.0 | 120 29 57.0 | 1000 | |
| 24 | 45 44 4.8 | 120 29 15.0 | 1000 | |
| 25 | 45 44 30.7 | 120 28 44.5 | 1200 | |
| 26 | 45 45 4.7 | 120 28 44.9 | 1288 | |
| 27 | 45 45 29.5 | 120 28 8.7 | 1369 | |
| 28 | 45 46 3.4 | 120 26 12.2 | 520 | |
| 29 | 45 46 47.6 | 120 26 40.5 | 540 | |
| 30 | 45 47 32.0 | 120 25 56.4 | 2180 | |
| 31 | 45 48 20.1 | 120 24 56.7 | 2240 | |
| 32 | 45 48 49.7 | 120 24 9.2 | 2400 | |
| 33 | 45 49 21.9 | 120 23 28.1 | 2605 | |
| 34 | 45 49 47.9 | 120 22 29.9 | 2500 | |
| 35 | 45 50 33.2 | 120 21 44.7 | 2200 | |
| 36 | 45 51 6.4 | 120 21 23.7 | 2050 | |
| 37 | 45 51 49.1 | 120 20 40.7 | 2260 | |
| 38 | 45 52 0.2 | 120 19 56.7 | 2250 | |
| 39 | 45 52 49.0 | 120 19 24.7 | 2320 | |
| 40 | 45 53 2.4 | 120 18 31.0 | 2410 | |
| 41 | 45 53 44.9 | 120 18 26.2 | 2500 | |
| 42 | 45 54 30.0 | 120 18 11.4 | 2550 | |
| 43 | 45 55 2.3 | 120 16 53.6 | 2630 | |
| 44 | 45 55 34.6 | 120 16 56.0 | 2660 | |
| 45 | 45 56 4.8 | 120 16 56.3 | 2680 | |
| 46 | 45 56 29.0 | 120 14 43.3 | 2700 | |
| 47 | 45 57 11.9 | 120 14 25.8 | 2700 | |
| 48 | 45 57 40.7 | 120 14 24.9 | 2760 | |
| 49 | 45 58 10.0 | 120 14 24.3 | 2780 | |
| 50 | 45 58 30.0 | 120 13 9.4 | 2730 | |

U.S.G.S. SEISMIC STATION LOCATIONS

24

HANFORD 1984

| LOCATION NUMBER | LATITUDE (DEG,MIN,SEC) | LONGITUDE (DEG,MIN,SEC) | ELEV | NOTES |
|--------------------|---------------------------|----------------------------|------|-------|
| 51 | 45 58 55.5 | 120 12 54.5 | 2700 | |
| 52 | 45 59 13.9 | 120 11 54.7 | 2660 | |
| 53 | 45 59 40.4 | 120 11 54.6 | 2680 | |
| 54 | 46 0 7.4 | 120 11 54.3 | 2700 | |
| 55 | 46 0 25.1 | 120 11 4.6 | 2660 | |
| 56 | 46 0 53.2 | 120 10 37.3 | 2620 | |
| 57 | 46 1 10.7 | 120 10 18.3 | 2640 | |
| 58 | 46 1 35.1 | 120 9 56.3 | 2600 | |
| 59 | 46 2 4.6 | 120 9 4.8 | 2640 | |
| 60 | 46 2 27.7 | 120 8 58.9 | 2620 | |
| 61 | 46 3 0.3 | 120 8 38.0 | 2660 | |
| 62 | 46 3 41.2 | 120 8 39.0 | 2720 | |
| 63 | 46 4 2.1 | 120 7 39.6 | 2660 | |
| 64 | 46 4 13.9 | 120 7 16.0 | 2620 | |
| 65 | 46 4 40.8 | 120 7 1.5 | 2520 | |
| 66 | 46 5 10.5 | 120 6 47.0 | 2380 | |
| 67 | 46 5 49.7 | 120 6 47.0 | 2120 | |
| 68 | 46 6 14.1 | 120 6 13.5 | 2020 | |
| 69 | 46 6 28.2 | 120 5 35.2 | 1960 | |
| 70 | 46 4 60.0 | 120 5 0.0 | 1900 | |
| 71 | 46 6 48.0 | 120 4 13.8 | 1900 | |
| 72 | 46 7 17.2 | 120 3 30.6 | 2060 | |
| 73 | 46 7 38.2 | 120 2 55.7 | 1850 | |
| 74 | 46 8 5.7 | 120 2 49.0 | 1450 | |
| 75 | 46 8 36.1 | 120 2 38.0 | 1200 | |
| 76 | 46 9 1.3 | 120 2 37.8 | 1050 | |
| 77 | 46 9 23.1 | 120 2 5.4 | 960 | |
| 78 | 46 9 51.6 | 120 1 3.6 | 870 | |
| 79 | 46 10 15.9 | 120 0 26.9 | 840 | |
| 80 | 46 10 42.2 | 119 59 58.3 | 807 | |
| 81 | 46 11 6.5 | 119 59 58.4 | 770 | |
| 82 | 46 11 37.9 | 119 59 44.3 | 750 | |
| 83 | 46 12 0.6 | 119 59 21.3 | 729 | |
| 84 | 46 12 28.8 | 119 58 50.4 | 700 | |
| 85 | 46 12 53.3 | 119 58 23.7 | 700 | |
| 86 | 46 13 26.8 | 119 57 41.7 | 680 | |
| 87 | 46 13 48.8 | 119 57 23.8 | 660 | |
| 88 | 46 14 12.2 | 119 57 2.5 | 680 | |
| 89 | 46 14 33.9 | 119 56 25.6 | 750 | |
| 90 | 46 15 4.3 | 119 56 15.5 | 825 | |
| 91 | 46 15 30.7 | 119 55 46.3 | 800 | |
| 92 | 46 15 55.6 | 119 55 29.2 | 750 | |
| 93 | 46 16 22.0 | 119 54 54.4 | 780 | |
| 94 | 46 16 44.9 | 119 54 15.6 | 780 | |
| 95 | 46 17 14.8 | 119 54 1.7 | 639 | |
| 96 | 46 17 41.3 | 119 53 36.7 | 903 | |
| 97 | 46 18 4.6 | 119 53 6.7 | 900 | |
| 98 | 46 18 21.1 | 119 52 40.6 | 960 | |
| 99 | 46 17 38.9 | 119 52 21.8 | 1200 | |
| 100 | 46 19 23.2 | 119 52 19.6 | 1250 | |

U.S.G.S., SEISMIC STATION LOCATIONS

25

HANFORD 1984

| LOCATION NUMBER | LATITUDE (DEG, MIN, SEC) | LONGITUDE (DEG, MIN, SEC) | ELEV | NOTES |
|--------------------|-----------------------------|------------------------------|------|-------|
| 101 | 46 19 40.4 | 119 51 24.5 | 1300 | |
| 102 | 46 20 4.7 | 119 51 9.8 | 1300 | |
| 103 | 46 20 43.1 | 119 50 55.4 | 1400 | |
| 105 | 46 20 54.9 | 119 50 19.2 | 1510 | |
| 106 | 46 21 17.9 | 119 49 47.3 | 1655 | |
| 107 | 46 21 41.7 | 119 49 19.7 | 1610 | |
| 108 | 46 22 7.8 | 119 48 54.1 | 1960 | |
| 109 | 46 22 31.1 | 119 48 35.8 | 2070 | |
| 110 | 46 22 58.4 | 119 48 11.1 | 2180 | |
| 111 | 46 23 21.1 | 119 47 36.2 | 2370 | |
| 112 | 46 23 43.5 | 119 47 6.4 | 2490 | |
| 113 | 46 24 12.6 | 119 46 37.6 | 2645 | |
| 114 | 46 24 29.9 | 119 45 53.9 | 2720 | |
| 115 | 46 24 55.6 | 119 45 53.0 | 2770 | |
| 116 | 46 22 30.4 | 119 44 39.0 | 2900 | |
| 117 | 46 25 44.7 | 119 44 11.1 | 2360 | |
| 118 | 46 26 18.3 | 119 44 3.0 | 1900 | |
| 119 | 46 26 35.8 | 119 43 22.5 | 1730 | |
| 120 | 46 27 4.0 | 119 42 51.6 | 1480 | |
| 121 | 46 27 48.9 | 119 43 12.4 | 1180 | |
| 122 | 46 28 17.2 | 119 42 49.8 | 1120 | |
| 123 | 46 28 42.0 | 119 42 19.1 | 900 | |
| 124 | 46 29 4.6 | 119 41 51.4 | 805 | |
| 125 | 46 29 32.4 | 119 41 1.1 | 680 | |
| 126 | 46 29 45.8 | 119 40 20.6 | 635 | |
| 127 | 46 30 1.0 | 119 39 26.9 | 610 | |
| 128 | 46 30 25.3 | 119 39 28.6 | 640 | |
| 129 | 46 30 51.6 | 119 39 26.3 | 630 | |
| 130 | 46 31 7.8 | 119 38 55.5 | 620 | |
| 131 | 46 31 50.3 | 119 38 2.7 | 610 | |
| 132 | 46 32 14.2 | 119 37 50.9 | 660 | |
| 133 | 46 33 25.4 | 119 36 21.4 | 730 | |
| 134 | 46 33 46.7 | 119 35 46.8 | 725 | |
| 135 | 46 34 2.3 | 119 35 2.7 | 700 | |
| 136 | 46 34 40.7 | 119 35 15.3 | 620 | |
| 137 | 46 34 57.5 | 119 34 40.3 | 560 | |
| 138 | 46 35 21.7 | 119 33 55.4 | 555 | |
| 139 | 46 35 43.5 | 119 33 24.0 | 560 | |
| 140 | 46 36 9.4 | 119 32 58.7 | 460 | |
| 141 | 46 36 41.2 | 119 32 45.8 | 440 | |
| 142 | 46 37 6.5 | 119 32 22.8 | 550 | |
| 143 | 46 37 27.1 | 119 31 47.6 | 520 | |
| 144 | 46 37 50.0 | 119 31 16.7 | 520 | |
| 145 | 46 38 12.9 | 119 30 46.4 | 510 | |
| 146 | 46 38 34.5 | 119 30 16.4 | 455 | |
| 147 | 46 39 4.0 | 119 29 49.5 | 460 | |
| 148 | 46 39 21.5 | 119 29 16.5 | 470 | |
| 149 | 46 39 42.1 | 119 28 39.9 | 470 | |
| 150 | 46 40 11.1 | 119 28 18.6 | 480 | |
| 151 | 46 40 32.4 | 119 28 5.3 | 491 | |

U.S.G.S. SEISMIC STATION LOCATIONS

26

HANFORD 1984

| LOCATION NUMBER | LATITUDE (DEG,MIN,SEC) | LONGITUDE (DEG,MIN,SEC) | ELEV | NOTES |
|--------------------|---------------------------|----------------------------|------|-------|
| 152 | 46 40 0.0 | 119 25 23.0 | 550 | |
| 153 | 46 42 56.8 | 119 25 28.0 | 575 | |
| 154 | 46 43 26.7 | 119 25 20.6 | 600 | |
| 155 | 46 43 55.1 | 119 24 57.2 | 650 | |
| 156 | 46 44 17.5 | 119 24 25.3 | 710 | |
| 157 | 46 45 1.6 | 119 24 26.9 | 720 | |
| 158 | 46 45 8.1 | 119 23 30.2 | 780 | |
| 159 | 46 45 59.3 | 119 24 1.5 | | |
| 160 | 46 45 54.0 | 119 22 31.8 | | |
| 161 | 46 45 44.5 | 119 20 50.5 | | |
| 162 | 46 46 19.9 | 119 20 54.0 | 1220 | |
| 163 | 46 47 12.6 | 119 21 47.0 | 1740 | |
| 164 | 46 47 44.9 | 119 21 11.6 | 1060 | |
| 165 | 46 48 9.8 | 119 20 43.6 | 670 | |
| 166 | 46 48 44.6 | 119 20 43.5 | 640 | |
| 167 | 46 49 17.4 | 119 20 43.2 | 650 | |
| 168 | 46 49 50.8 | 119 20 43.4 | 660 | |
| 169 | 46 50 24.3 | 119 20 33.9 | 650 | |
| 170 | 46 50 53.6 | 119 20 7.9 | 640 | |
| 171 | 46 51 16.7 | 119 19 44.9 | 680 | |
| 172 | 46 51 47.3 | 119 19 27.2 | 710 | |
| 173 | 46 52 23.4 | 119 19 19.8 | 760 | |
| 174 | 46 52 39.5 | 119 18 37.4 | 760 | |
| 175 | 46 52 52.0 | 119 17 35.4 | 780 | |
| 176 | 46 53 19.9 | 119 17 16.8 | 830 | |
| 177 | 46 53 27.4 | 119 16 2.3 | 880 | |
| 178 | 46 53 41.5 | 119 15 0.0 | 859 | |
| 179 | 46 54 1.7 | 119 13 45.7 | 840 | |
| 180 | 46 54 39.8 | 119 13 46.9 | 857 | |
| 181 | 46 55 11.7 | 119 13 44.0 | 850 | |
| 182 | 46 55 38.9 | 119 13 23.2 | 870 | |
| 183 | 46 55 46.6 | 119 12 47.5 | 1040 | |
| 184 | 46 56 22.9 | 119 13 7.7 | 1025 | |
| 185 | 46 57 0.1 | 119 13 17.4 | 990 | |
| 186 | 46 57 23.8 | 119 12 10.1 | 1040 | |
| 187 | 46 57 39.6 | 119 11 36.1 | 1119 | |
| 188 | 46 58 3.4 | 119 11 55.9 | 1138 | |
| 189 | 46 58 13.8 | 119 11 44.6 | 1138 | |
| 190 | 46 59 2.2 | 119 11 34.9 | 450 | |
| 191 | 46 59 22.5 | 119 10 13.1 | 1132 | |
| 192 | 46 59 50.6 | 119 9 12.6 | 1134 | |
| 193 | 47 0 49.0 | 119 9 45.8 | 1132 | |
| 194 | 47 1 15.4 | 119 8 59.2 | 1130 | |
| 195 | 47 1 42.6 | 119 8 53.5 | 1150 | |
| 196 | 47 2 34.1 | 119 7 45.1 | 1155 | |
| 197 | 47 3 11.2 | 119 7 25.4 | 1180 | |
| 198 | 47 3 46.6 | 119 6 34.8 | 1160 | |
| 199 | 47 4 19.0 | 119 5 57.9 | 1200 | |
| 200 | 47 4 55.1 | 119 5 6.9 | 1220 | |
| 201 | 47 5 44.3 | 119 5 9.5 | 1260 | |

U.S.G.S. SEISMIC STATION LOCATIONS

HANFORD 1984

| LOCATION NUMBER | LATITUDE (DEG,MIN,SEC) | LONGITUDE (DEG,MIN,SEC) | ELEV | NOTES |
|--------------------|---------------------------|----------------------------|------|-------|
| 202 | 47 6 16.5 | 119 4 31.9 | 1300 | |
| 203 | 47 6 46.9 | 119 3 53.1 | 1370 | |
| 204 | 47 7 9.4 | 119 2 36.4 | 1390 | |
| 205 | 47 8 0.8 | 119 2 35.8 | 1370 | |
| 206 | 47 8 42.9 | 119 2 13.4 | 1380 | |
| 207 | 47 9 34.6 | 119 0 23.4 | 1380 | |
| 208 | 47 9 26.3 | 119 1 19.9 | 1325 | |
| 209 | 47 10 26.5 | 119 0 22.6 | 1370 | |
| 210 | 47 11 19.8 | 118 59 58.5 | 1478 | |
| 211 | 47 12 5.2 | 118 59 57.6 | 1490 | |
| 212 | 47 12 11.1 | 118 59 3.9 | 1500 | |
| 213 | 47 12 58.7 | 118 58 24.9 | 1500 | |
| 214 | 47 13 52.4 | 118 57 47.3 | 1520 | |
| 215 | 47 14 29.0 | 118 57 26.8 | 1325 | |
| 216 | 47 14 41.3 | 118 56 18.3 | 1320 | |
| 217 | 47 15 8.4 | 118 54 56.9 | 1320 | |
| 218 | 47 16 3.7 | 118 54 52.6 | 1300 | |
| 219 | 47 16 33.2 | 118 54 14.8 | 1600 | |
| 220 | 47 17 37.0 | 118 54 52.0 | 1550 | |
| 221 | 47 18 18.0 | 118 53 55.2 | 1390 | |
| 222 | 47 18 29.0 | 118 52 18.6 | 1400 | |
| 223 | 47 19 13.0 | 118 52 16.6 | 1410 | |
| 224 | 47 19 38.2 | 118 50 44.8 | 1420 | |
| 225 | 47 20 10.5 | 118 50 44.7 | 1400 | |
| 226 | 47 20 55.6 | 118 50 54.6 | 1450 | |
| 227 | 47 21 43.7 | 118 50 44.8 | 1420 | |
| 228 | 47 22 21.5 | 118 49 39.1 | 1700 | |
| 229 | 47 22 49.0 | 118 48 44.8 | 1770 | |
| 230 | 47 23 17.9 | 118 47 25.8 | 1870 | |
| 231 | 47 23 31.0 | 118 46 25.8 | 1920 | |
| 232 | 47 24 27.1 | 118 46 40.8 | 1980 | |
| 233 | 47 25 10.6 | 118 46 17.8 | 2010 | |
| 234 | 47 25 54.9 | 118 46 16.4 | 1500 | |
| 500 | 45 56 25.9 | 120 14 54.4 | 1600 | |
| 501 | 45 56 58.4 | 120 14 42.2 | 1800 | |
| 502 | 46 40 36.4 | 119 27 50.0 | 1850 | |
| 503 | 46 40 45.5 | 119 27 41.8 | 1570 | |
| 504 | 46 41 4.8 | 119 27 12.3 | 1870 | |
| 505 | 46 41 35.1 | 119 26 24.7 | 1960 | |
| 506 | 46 42 4.5 | 119 25 41.1 | 2100 | |
| 507 | 45 50 51.8 | 120 21 29.6 | 2100 | |
| 508 | 46 59 46.0 | 119 9 20.2 | 1080 | |
| 509 | 46 25 29.8 | 119 44 15.0 | 2120 | |
| 510 | 46 32 52.6 | 119 36 26.7 | 720 | |
| 511 | 46 32 15.6 | 119 36 48.7 | 680 | |
| 512 | 46 41 35.7 | 119 26 24.7 | 680 | |
| 513 | 46 42 4.5 | 119 25 41.1 | 680 | |
| 514 | 46 42 35.8 | 119 25 24.3 | 680 | |
| 515 | 46 43 7.6 | 119 25 8.1 | 680 | |
| 516 | 46 43 36.6 | 119 24 60.0 | 680 | |

U.S.G.S. SEISMIC STATION LOCATIONS

28

HANFORD 1984

| LOCATION NUMBER | LATITUDE (DEG,MIN,SEC) | LONGITUDE (DEG,MIN,SEC) | ELEV | NOTES |
|--------------------|---------------------------|----------------------------|------|-------|
| 517 | 46 44 0.2 | 119 24 47.6 | 680 | |
| 518 | 46 41 5.8 | 119 27 13.5 | 380 | |
| 519 | 46 40 47.0 | 119 27 41.8 | 380 | |
| 520 | 46 40 37.4 | 119 27 49.2 | 400 | |
| 600 | 46 0 0.0 | 120 0 0.0 | 420 | |
| 1001 | 46 58 14.2 | 119 11 44.8 | 1300 | |
| 1002 | 46 40 34.4 | 119 27 58.0 | 420 | |
| 1003 | 46 20 52.6 | 119 50 17.9 | 1000 | |
| 1004 | 45 56 26.8 | 120 14 46.6 | 700 | |

APPENDIX A

TAPE GRADE CODE

A performance status number is assigned to each cassette as it is digitized. These numbers appear in the last column of the DKDAT data file.

DKDAT DATA FILE

DKDAT data file is organized by team-shots, and listed in the order that they were fired (Shot Number). A team-shot is twenty recordings for each shot accomplished by each of six teams. Header information for each team-shot includes team numbers, shot numbers, shotpoint numbers, and shot times. Information formatted in columns includes station location number (LOC), distance from the shot (DIST; in km), azimuths (AZIM; in degrees from North), unit numbers (UNIT), chronometer corrections (CHRON; in milliseconds; these subtracted from chronometer readings during digitization), channel digitized and gain settings of the three channels (C1, C2, C3), and tape codes.

TAPE GRADE CODES

- 0 - GOOD
- 1 - TAPE DID NOT RUN
- 2 - TAPE RAN BUT NO SIGNAL
- 3 - TAPE SKIPPED RECORDING TIME
- 4 - TAPE RAN FAST FORWARD; NO SIGNAL
- 5 - TAPE REWOUND AND ERASED
- 6 - WEAK SIGNAL; CANNOT READ THE TIME CODE; LOW RECORD LEVEL
- 7 - NOISE, CONTINUOUS CALIBRATION OR PERIODIC OFFSETS
- 8 - NOISE, SINUSOIDAL
- 9 - NOISE, SPIKE
- 10 - NOISE, WWVB CROSS-FEED
- 11 - NOISE, PERIODIC TICKS
- 12 - NOISE, RANDOM
- 13 - BAD CLOCKS
- 14 - OFF FREQUENCY, TAPE SPEED PROBLEM
- 16 - INCOMPLETE RECORD; RECORDER STOPPED
- 17 - NOISY OR WEAK TIME CODE
- 19 - TURNED ON TO EARLY
- 20 - IN FOR REPAIR; NOT DEPLOYED
- 21 - GEOPHONE DISCONNECTED OR SHORTED
- 22 - WRONG UNIT NUMBER
- 23 - WRONG GAIN SETTING
- 24 - TURNED ON TOO LATE
- 25 - BAD GEOPHONE TEST
- 26 - ONE OR MORE CHANNELS MISSING
- 27 - NOISY OR WEAK WWVB
- 28 - INSTRUMENT OR TAPE MISSING
- 29 - WRONG TIME DURING TURN-ON
- 30 - DIGITIZED W/O CALIBRATION
- 31 - AMPLIFIER OUT OF BALANCE
- 32 - LOCATION NOT ON MAP; WRONG LOCATION

FIELD DATA TABLE

HANFORD EXPERIMENT NO 27

Shot number 1 Shot point1001 Team 1

Shot time: 232:10:59:59.989

| | Loc | Dist(km) | Azim | Unit | Chron | Chan | C1 | C2 | C3 | Tape grade |
|----|-----|----------|-------|------|-------|------|----|----|----|------------|
| 1 | 37 | 151.464 | 216.1 | 1 | 17 | 2 | 30 | 12 | 48 | 0 |
| 2 | 36 | 153.075 | 216.1 | 2 | 25 | 2 | 30 | 12 | 48 | 0 |
| 3 | 35 | 154.176 | 216.0 | 3 | 11 | 2 | 30 | 12 | 48 | 0 |
| 4 | 34 | 155.881 | 216.0 | 4 | -92 | 2 | 30 | 12 | 48 | 0 |
| 5 | 33 | 157.262 | 216.2 | 5 | 17 | 2 | 30 | 12 | 48 | 0 |
| 6 | 32 | 158.585 | 216.3 | 6 | 10 | 2 | 30 | 12 | 48 | 0 |
| 7 | 31 | 159.923 | 216.4 | 7 | -28 | 2 | 30 | 12 | 48 | 0 |
| 8 | 30 | 161.884 | 216.4 | 8 | 12 | | 30 | 12 | 48 | 29 |
| 9 | 29 | 163.553 | 216.4 | 9 | 57 | 2 | 30 | 12 | 48 | 0 |
| 10 | 28 | 164.311 | 216.0 | 10 | -31 | 2 | 30 | 12 | 48 | 0 |
| 11 | 27 | 166.621 | 216.5 | 11 | -27 | | 30 | 12 | 48 | 0 |
| 12 | 26 | 167.698 | 216.5 | 12 | 7 | | 30 | 12 | 48 | 12 |
| 13 | 25 | 168.550 | 216.3 | 13 | 20 | | 30 | 12 | 48 | 0 |
| 14 | 24 | 169.582 | 216.4 | 14 | 27 | | 30 | 12 | 48 | 0 |
| 15 | 23 | 170.581 | 216.5 | 15 | -91 | | 30 | 12 | 48 | 0 |
| 16 | | | | 16 | -11 | | 30 | 12 | 48 | 21 |
| 17 | 21 | 174.162 | 216.7 | 17 | 30 | | 30 | 12 | 48 | 0 |
| 18 | 22 | 172.176 | 216.6 | 18 | 0 | | 30 | 12 | 48 | 0 |
| 19 | 117 | 73.032 | 214.7 | 19 | 11 | | 30 | 12 | 48 | 0 |
| 20 | 118 | 72.080 | 215.0 | 20 | -33 | | 30 | 12 | 48 | 6 |

FIELD DATA TABLE

HANFORD EXPERIMENT NO 27

Shot number 1 Shot point1001 Team 2

Shot time: 232:10:59:59.989

| | Loc | Dist(km) | Azim | Unit | Chron | Chan | C1 | C2 | C3 | Tape grade |
|----|-----|----------|-------|------|-------|------|----|----|----|------------|
| 1 | 54 | 132.248 | 215.6 | 21 | 7 | | 30 | 12 | 48 | 28 |
| 2 | 53 | 132.936 | 215.4 | 22 | -2 | 2 | 30 | 12 | 48 | 0 |
| 3 | 52 | 133.609 | 215.2 | 23 | 6 | | 30 | 12 | 48 | 1 |
| 4 | 51 | 134.807 | 215.5 | 24 | -17 | 3 | 30 | 12 | 48 | 0 |
| 5 | 50 | 135.636 | 215.4 | 25 | -5 | 2 | 30 | 12 | 48 | 0 |
| 6 | 49 | 137.066 | 215.8 | 26 | -9 | | 30 | 12 | 48 | 1 |
| 7 | 48 | 137.814 | 215.6 | 27 | 17 | | 30 | 12 | 68 | 1 |
| 8 | 47 | 138.552 | 215.4 | 28 | -146 | 2 | 30 | 12 | 68 | 0 |
| 9 | 501 | 139.097 | 215.4 | 29 | 14 | 2 | 30 | 12 | 68 | 0 |
| 10 | 46 | 139.855 | 215.2 | 30 | -8 | 2 | 30 | 12 | 88 | 0 |
| 11 | 45 | 142.109 | 215.9 | 31 | 13 | | 30 | 12 | 68 | 6 |
| 12 | 500 | 140.071 | 215.2 | 32 | -9 | 2 | 30 | 12 | 88 | 0 |
| 13 | 44 | 142.867 | 215.7 | 33 | 36 | 2 | 30 | 12 | 48 | 0 |
| 14 | 43 | 143.651 | 215.5 | 34 | -6 | 2 | 30 | 12 | 48 | 0 |
| 15 | 42 | 145.431 | 215.8 | 35 | -46 | 2 | 30 | 12 | 48 | 0 |
| 16 | 41 | 146.778 | 215.6 | 36 | 0 | | 30 | 12 | 48 | 1 |
| 17 | 40 | 147.887 | 215.3 | 37 | 42 | 2 | 30 | 12 | 48 | 0 |
| 18 | 39 | 148.887 | 215.6 | 38 | -11 | 2 | 30 | 12 | 48 | 0 |
| 19 | 38 | 150.520 | 215.5 | 39 | -8 | 2 | 30 | 12 | 48 | 0 |
| 20 | 507 | 153.395 | 215.6 | 40 | -3 | 2 | 30 | 12 | 48 | 0 |

FIELD DATA TABLE

HANFORD EXPERIMENT NO 27

Shot number 1 Shot point1001 Team 3

Shot time: 232:10:59:59.989

| | Loc | Dist(km) | Azim | Unit | Chron | Chan | C1 | C2 | C3 | Tape grade |
|----|-----|----------|-------|------|-------|------|----|----|----|------------|
| 1 | 96 | 92.112 | 215.4 | 41 | -6 | 2 | 30 | 12 | 48 | 0/12 |
| 2 | 97 | 91.155 | 215.4 | 42 | 5 | 2 | 30 | 12 | 48 | 0/12 |
| 3 | 98 | 90.416 | 215.3 | 43 | -22 | 1 | 30 | 12 | 48 | 0/12 |
| 4 | 99 | 91.262 | 214.6 | 44 | 44 | 2 | 30 | 12 | 48 | 0/12 |
| 5 | 100 | 88.590 | 215.7 | 45 | 3 | 2 | 30 | 12 | 48 | 0 |
| 6 | 102 | 86.686 | 215.4 | 46 | 0 | 2 | 30 | 12 | 68 | 0 |
| 7 | 101 | 87.479 | 215.3 | 47 | 44 | 2 | 30 | 12 | 68 | 0 |
| 8 | 103 | 85.539 | 215.7 | 48 | -16 | 2 | 30 | 12 | 88 | 0 |
| 9 | 105 | 84.796 | 215.4 | 49 | 6 | 2 | 30 | 12 | 88 | 0 |
| 10 | 106 | 83.824 | 215.3 | 50 | -15 | 2 | 30 | 12 | 88 | 0 |
| 11 | 107 | 82.886 | 215.3 | 51 | 1 | 2 | 30 | 12 | 68 | 0 |
| 12 | 108 | 81.911 | 215.3 | 52 | 5 | 2 | 30 | 12 | 68 | 0 |
| 13 | 109 | 81.099 | 215.4 | 53 | 4 | 3 | 30 | 12 | 48 | 0 |
| 14 | 110 | 80.107 | 215.4 | 54 | -17 | | 30 | 12 | 48 | 1 |
| 15 | 111 | 79.171 | 215.3 | 55 | -7 | 2 | 30 | 12 | 48 | 0 |
| 16 | 112 | 78.239 | 215.2 | 56 | 6 | 2 | 30 | 12 | 48 | 0 |
| 17 | 113 | 77.146 | 215.2 | 57 | -7 | 2 | 30 | 12 | 48 | 0 |
| 18 | 114 | 76.179 | 214.9 | 58 | 12 | 2 | 30 | 12 | 48 | 0 |
| 19 | 115 | 75.518 | 215.2 | 59 | -6 | 2 | 30 | 12 | 48 | 0 |
| 20 | 116 | 78.379 | 212.4 | 60 | -8 | 2 | 30 | 12 | 48 | 0 |

FIELD DATA TABLE

HANFORD EXPERIMENT NO 27

Shot number 1 Shot point1001 Team 4

Shot time: 232:10:59:59.989

| | Loc | Dist(km) | Azim | Unit | Chron | Chan | C1 | C2 | C3 | Tape grade |
|----|-----|----------|-------|------|-------|------|----|----|----|------------|
| 1 | 20 | 174.891 | 215.3 | 61 | 11 | | 30 | 12 | 48 | 6 |
| 2 | 19 | 185.572 | 219.4 | 62 | -- | | 30 | 12 | 48 | 20 |
| 3 | 18 | 178.851 | 216.2 | 63 | 10 | 2 | 30 | 12 | 48 | 12 |
| 4 | 17 | 179.889 | 216.2 | 64 | 16 | 2 | 30 | 12 | 48 | 0 |
| 5 | 16 | 181.214 | 216.1 | 65 | -- | | 30 | 12 | 48 | 20 |
| 6 | 15 | 182.233 | 216.4 | 66 | -4 | | 30 | 12 | 48 | 2 |
| 7 | 14 | 183.196 | 216.2 | 67 | -28 | | 30 | 12 | 48 | 2 |
| 8 | 13 | 185.126 | 216.3 | 68 | -13 | 2 | 30 | 12 | 48 | 12 |
| 9 | 12 | 186.661 | 216.4 | 69 | 4 | | 30 | 12 | 48 | 7/10 |
| 10 | 11 | 187.265 | 216.7 | 70 | 58 | 2 | 30 | 12 | 48 | 12 |
| 11 | 10 | 188.883 | 216.4 | 71 | -9 | 2 | 30 | 12 | 48 | 12 |
| 12 | 9 | 191.011 | 216.7 | 72 | -- | | 30 | 12 | 48 | 1 |
| 13 | 8 | 191.915 | 216.4 | 73 | -9 | 2 | 30 | 12 | 48 | 12 |
| 14 | 7 | 193.380 | 216.6 | 74 | 0 | 2 | 30 | 12 | 48 | 2 |
| 15 | 6 | 194.331 | 216.4 | 75 | 13 | 2 | 30 | 12 | 48 | 2 |
| 16 | 5 | 195.578 | 216.1 | 76 | 24 | 2 | 30 | 12 | 48 | 2 |
| 17 | 4 | 197.186 | 216.8 | 77 | 2 | 2 | 30 | 12 | 48 | 12 |
| 18 | 3 | 198.454 | 216.5 | 78 | 3 | 2 | 30 | 12 | 48 | 0 |
| 19 | 2 | 199.623 | 216.3 | 79 | 34 | | 30 | 12 | 48 | 1 |
| 20 | 1 | 200.741 | 216.6 | 80 | 13 | | 30 | 12 | 48 | 7 |

FIELD DATA TABLE

HANFORD EXPERIMENT NO 27

Shot number 1 Shot point1001 Team 5

Shot time: 232:10:59:59.989

| | Loc | Dist(km) | Azim | Unit | Chron | Chan | C1 | C2 | C3 | Tape grade |
|----|-----|----------|-------|------|-------|------|----|----|----|------------|
| 1 | 95 | 93.088 | 215.4 | 81 | -19 | 2 | 30 | 12 | 48 | 0 |
| 2 | 94 | 94.014 | 215.2 | 82 | -11 | 2 | 30 | 12 | 48 | 10 |
| 3 | 93 | 95.069 | 215.4 | 83 | 18 | 2 | 30 | 12 | 48 | 10 |
| 4 | 92 | 96.162 | 215.5 | 84 | 15 | 2 | 30 | 12 | 48 | 10 |
| 5 | 91 | 97.003 | 215.4 | 85 | -30 | 1 | 30 | 12 | 48 | 0 |
| 6 | 90 | 98.029 | 215.4 | 86 | 1 | 2 | 30 | 12 | 48 | 10 |
| 7 | 89 | 98.921 | 215.2 | 87 | -195 | 2 | 30 | 12 | 48 | 10 |
| 8 | 88 | 99.923 | 215.3 | 88 | 23 | 2 | 30 | 12 | 48 | 10 |
| 9 | 87 | 100.775 | 215.3 | 89 | 11 | | 30 | 12 | 48 | 1 |
| 10 | 86 | 101.552 | 215.3 | 90 | 14 | 2 | 30 | 12 | 48 | 10 |
| 11 | 85 | 102.913 | 215.3 | 91 | 5 | 1 | 30 | 12 | 48 | 0 |
| 12 | 84 | 103.861 | 215.4 | 92 | 6 | 3 | 30 | 12 | 48 | 10 |
| 13 | 83 | 104.952 | 215.4 | 93 | 5 | 1 | 30 | 12 | 48 | 10 |
| 14 | 82 | 105.809 | 215.4 | 94 | 21 | 1 | 30 | 12 | 48 | 10 |
| 15 | 81 | 106.779 | 215.2 | 95 | 29 | 2 | 30 | 12 | 48 | 10 |
| 16 | 80 | 107.393 | 215.0 | 96 | -34 | 2 | 30 | 12 | 48 | 10 |
| 17 | 79 | 108.408 | 215.0 | 97 | 8 | 2 | 30 | 12 | 48 | 10 |
| 18 | 78 | 109.473 | 215.1 | 98 | -13 | 3 | 30 | 12 | 48 | 10 |
| 19 | 77 | 110.951 | 215.4 | 99 | 12 | 2 | 30 | 12 | 48 | 0 |
| 20 | 76 | 111.899 | 215.5 | 100 | 11 | 2 | 30 | 12 | 48 | 0 |

FIELD DATA TABLE

HANFORD EXPERIMENT NO 27

Shot number 1 Shot point1001 Team 6

Shot time: 232:10:59:59.989

| | Loc | Dist(km) | Azim | Unit | Chron | Chan | C1 | C2 | C3 | Tape grade |
|----|-----|----------|-------|------|-------|------|----|----|----|------------|
| 1 | 75 | 112.558 | 215.3 | 101 | 31 | 1 | 12 | 30 | 48 | 0 |
| 2 | 74 | 113.501 | 215.1 | 102 | 20 | 1 | 12 | 30 | 48 | 0 |
| 3 | 73 | 114.234 | 214.9 | 103 | 19 | 2 | 12 | 30 | 48 | 0 |
| 4 | 72 | 115.185 | 215.0 | 104 | 7 | 1 | 12 | 30 | 48 | 0 |
| 5 | 71 | 116.452 | 215.1 | 105 | 18 | 1 | 12 | 30 | 48 | 0 |
| 6 | 70 | 119.762 | 214.6 | 106 | -- | | 12 | 30 | 48 | 13 |
| 7 | 69 | 117.953 | 215.7 | 107 | -17 | 2 | 12 | 30 | 48 | 0 |
| 8 | 68 | 118.783 | 215.9 | 108 | -6 | 2 | 12 | 30 | 48 | 0 |
| 9 | 67 | 119.812 | 215.9 | 109 | 0 | 2 | 12 | 30 | 48 | 0 |
| 10 | 66 | 120.801 | 215.6 | 110 | 23 | 2 | 12 | 30 | 48 | 0 |
| 11 | 65 | 121.729 | 215.5 | 111 | 13 | 2 | 12 | 30 | 48 | 0 |
| 12 | 64 | 122.588 | 215.4 | 112 | 27 | 2 | 12 | 30 | 48 | 0 |
| 13 | 63 | 123.177 | 215.5 | 113 | -12 | 3 | 12 | 30 | 48 | 0 |
| 14 | 62 | 124.439 | 215.8 | 114 | -3 | 2 | 12 | 30 | 48 | 0 |
| 15 | 61 | 125.457 | 215.4 | 115 | 0 | 2 | 12 | 30 | 48 | 0 |
| 16 | 60 | 126.541 | 215.3 | 116 | 39 | 2 | 12 | 30 | 48 | 0 |
| 17 | 59 | 127.198 | 215.2 | 117 | -47 | 2 | 12 | 30 | 48 | 0 |
| 18 | 58 | 128.578 | 215.4 | 118 | -14 | 2 | 12 | 30 | 48 | 0 |
| 19 | 57 | 129.464 | 215.3 | 119 | 3 | 2 | 12 | 30 | 48 | 0 |
| 20 | 56 | 130.140 | 215.3 | 120 | 0 | 2 | 12 | 30 | 48 | 0 |

FIELD DATA TABLE

HANFORD EXPERIMENT NO 27

Shot number 2 Shot point1003 Team 1

Shot time: 232:11: 4: 0.011

| | Loc | Dist(km) | Azim | Unit | Chron | Chan | C1 | C2 | C3 | Tape grade |
|----|-----|----------|-------|------|-------|------|----|----|----|------------|
| 1 | 37 | 66.562 | 216.0 | 1 | 17 | 2 | 30 | 12 | 48 | 0 |
| 2 | 36 | 68.173 | 216.0 | 2 | 25 | 2 | 30 | 12 | 48 | 0 |
| 3 | 35 | 69.271 | 215.8 | 3 | 11 | 2 | 30 | 12 | 48 | 0 |
| 4 | 34 | 70.976 | 215.8 | 4 | -92 | 2 | 30 | 12 | 48 | 0 |
| 5 | 33 | 72.362 | 216.2 | 5 | 17 | 2 | 30 | 12 | 48 | 0 |
| 6 | 32 | 73.688 | 216.3 | 6 | 10 | 2 | 30 | 12 | 48 | 0 |
| 7 | 31 | 75.030 | 216.5 | 7 | -28 | 2 | 30 | 12 | 48 | 0 |
| 8 | 30 | 76.993 | 216.7 | 8 | 12 | | 30 | 12 | 48 | 29 |
| 9 | 29 | 78.661 | 216.6 | 9 | 57 | 2 | 30 | 12 | 48 | 0 |
| 10 | 28 | 79.406 | 215.7 | 10 | -31 | 2 | 30 | 12 | 48 | 0 |
| 11 | 27 | 81.664 | 216.7 | 11 | -27 | 2 | 30 | 12 | 48 | 12 |
| 12 | 26 | 82.744 | 216.8 | 12 | 7 | 2 | 30 | 12 | 48 | 12 |
| 13 | 25 | 83.587 | 216.4 | 13 | 20 | 2 | 30 | 12 | 48 | 0 |
| 14 | 24 | 84.619 | 216.4 | 14 | 27 | 2 | 30 | 12 | 48 | 0 |
| 15 | 23 | 85.622 | 216.7 | 15 | -91 | 2 | 30 | 12 | 48 | 0 |
| 16 | | | | 16 | -11 | | 30 | 12 | 48 | 21 |
| 17 | 21 | 89.205 | 216.9 | 17 | 30 | 2 | 30 | 12 | 48 | 0 |
| 18 | 22 | 87.218 | 216.8 | 18 | 0 | 2 | 30 | 12 | 48 | 0 |
| 19 | 117 | 11.948 | 41.0 | 19 | 11 | 1 | 30 | 12 | 48 | 0 |
| 20 | 118 | 12.856 | 38.5 | 20 | -33 | 1 | 30 | 12 | 48 | 0 |

FIELD DATA TABLE

HANFORD EXPERIMENT NO 27

Shot number 2 Shot point1003 Team 2

Shot time: 232:11: 4: 0.011

| | Loc | Dist(km) | Azim | Unit | Chron | Chan | C1 | C2 | C3 | Tape grade |
|----|-----|----------|-------|------|-------|------|----|----|----|------------|
| 1 | 54 | 47.450 | 215.9 | 21 | 7 | | 30 | 12 | 48 | 28 |
| 2 | 53 | 48.134 | 215.3 | 22 | -2 | 2 | 30 | 12 | 48 | 0 |
| 3 | 52 | 48.806 | 214.8 | 23 | 6 | | 30 | 12 | 48 | 1 |
| 4 | 51 | 50.008 | 215.6 | 24 | -17 | 2 | 30 | 12 | 48 | 0 |
| 5 | 50 | 50.836 | 215.4 | 25 | -5 | 2 | 30 | 12 | 48 | 0 |
| 6 | 49 | 52.279 | 216.4 | 26 | -9 | | 30 | 12 | 48 | 1 |
| 7 | 48 | 53.021 | 215.8 | 27 | 17 | | 30 | 12 | 68 | 1 |
| 8 | 47 | 53.755 | 215.3 | 28 | -146 | 2 | 30 | 12 | 68 | 0 |
| 9 | 501 | 54.300 | 215.4 | 29 | 14 | 2 | 30 | 12 | 68 | 0 |
| 10 | 46 | 55.057 | 214.8 | 30 | -8 | 2 | 30 | 12 | 88 | 0 |
| 11 | 45 | 57.334 | 216.8 | 31 | 13 | | 30 | 12 | 68 | 6 |
| 12 | 500 | 55.273 | 215.0 | 32 | -9 | 2 | 30 | 12 | 88 | 0 |
| 13 | 44 | 58.082 | 216.2 | 33 | 36 | 2 | 30 | 12 | 48 | 0 |
| 14 | 43 | 58.860 | 215.6 | 34 | -6 | 2 | 30 | 12 | 48 | 0 |
| 15 | 42 | 60.651 | 216.3 | 35 | -46 | 2 | 30 | 12 | 48 | 0 |
| 16 | 41 | 61.991 | 215.8 | 36 | 0 | | 30 | 12 | 48 | 1 |
| 17 | 40 | 63.095 | 215.2 | 37 | 42 | 2 | 30 | 12 | 48 | 0 |
| 18 | 39 | 64.102 | 215.8 | 38 | -11 | 2 | 30 | 12 | 48 | 0 |
| 19 | 38 | 65.733 | 215.5 | 39 | -8 | 2 | 30 | 12 | 48 | 0 |
| 20 | 507 | 68.615 | 215.9 | 40 | -3 | 2 | 30 | 12 | 48 | 0 |

FIELD DATA TABLE

HANFORD EXPERIMENT NO 27

Shot number 2 Shot point1003 Team 3

Shot time: 232:11: 4: 0.011

| | Loc | Dist(km) | Azim | Unit | Chron | Chan | C1 | C2 | C3 | Tape grade |
|----|-----|----------|-------|------|-------|------|----|----|----|------------|
| 1 | 96 | 7.279 | 215.8 | 41 | -6 | 1 | 30 | 12 | 48 | 0/12 |
| 2 | 97 | 6.321 | 214.8 | 42 | 5 | 3 | 30 | 12 | 48 | 0 |
| 3 | 98 | 5.584 | 213.1 | 43 | -22 | 1 | 30 | 12 | 48 | 0 |
| 4 | 99 | 6.541 | 203.9 | 44 | 44 | 3 | 30 | 12 | 48 | 0 |
| 5 | 100 | 3.793 | 223.3 | 45 | 3 | 3 | 30 | 12 | 48 | 0 |
| 6 | 102 | 1.850 | 216.9 | 46 | 0 | 3 | 30 | 12 | 68 | 0 |
| 7 | 101 | 2.645 | 212.6 | 47 | 44 | 2 | 30 | 12 | 68 | 0 |
| 8 | 103 | 0.853 | 250.0 | 48 | -16 | 3 | 30 | 12 | 88 | 0 |
| 9 | 105 | 0.078 | 338.2 | 49 | 6 | 3 | 30 | 12 | 88 | 0 |
| 10 | 106 | 1.019 | 39.9 | 50 | -15 | 3 | 30 | 12 | 88 | 0 |
| 11 | 107 | 1.960 | 39.4 | 51 | 1 | 3 | 30 | 12 | 68 | 0 |
| 12 | 108 | 2.934 | 37.6 | 52 | 5 | 3 | 30 | 12 | 68 | 0 |
| 13 | 109 | 3.743 | 35.7 | 53 | 5 | 3 | 30 | 12 | 48 | 0 |
| 14 | 110 | 4.736 | 34.9 | 54 | -17 | | 30 | 12 | 48 | 1 |
| 15 | 111 | 5.742 | 37.0 | 55 | -7 | 1 | 30 | 12 | 48 | 0 |
| 16 | 112 | 6.679 | 37.8 | 56 | 6 | 1 | 30 | 12 | 48 | 0 |
| 17 | 113 | 7.770 | 37.3 | 57 | -7 | 1 | 30 | 12 | 48 | 0 |
| 18 | 114 | 8.767 | 40.1 | 58 | 12 | 1 | 30 | 12 | 48 | 0 |
| 19 | 115 | 9.398 | 37.0 | 59 | -6 | 1 | 30 | 12 | 48 | 0 |
| 20 | 116 | 7.848 | 67.4 | 60 | -8 | 1 | 30 | 12 | 48 | 0 |

FIELD DATA TABLE

HANFORD EXPERIMENT NO 27

Shot number 2 Shot point1003 Team 4

Shot time: 232:11: 4: 0.011

| | Loc | Dist(km) | Azim | Unit | Chron | Chan | C1 | C2 | C3 | Tape grade |
|----|-----|----------|-------|------|-------|------|----|----|----|------------|
| 1 | 20 | 90.053 | 215.2 | 61 | 11 | 2 | 30 | 12 | 48 | 0/ 9 |
| 2 | 19 | 101.178 | 222.8 | 62 | -- | | 30 | 12 | 48 | 20 |
| 3 | 18 | 94.042 | 217.0 | 63 | 10 | 2 | 30 | 12 | 48 | 0 |
| 4 | 17 | 95.079 | 217.0 | 64 | 16 | 2 | 30 | 12 | 48 | 0 |
| 5 | 16 | 96.398 | 216.8 | 65 | -- | | 30 | 12 | 48 | 20 |
| 6 | 15 | 97.431 | 217.2 | 66 | -4 | 2 | 30 | 12 | 48 | 0 |
| 7 | 14 | 98.386 | 216.9 | 67 | -28 | | 30 | 12 | 48 | 29 |
| 8 | 13 | 100.323 | 217.2 | 68 | -13 | 2 | 30 | 12 | 48 | 0 |
| 9 | 12 | 101.860 | 217.2 | 69 | 4 | 3 | 30 | 12 | 48 | 7 |
| 10 | 11 | 102.489 | 217.9 | 70 | 58 | 2 | 30 | 12 | 48 | 0 |
| 11 | 10 | 104.081 | 217.1 | 71 | -9 | 2 | 30 | 12 | 48 | 0 |
| 12 | 9 | 106.233 | 217.8 | 72 | -- | | 30 | 12 | 48 | 1 |
| 13 | 8 | 107.113 | 217.2 | 73 | -9 | 2 | 30 | 12 | 48 | 0 |
| 14 | 7 | 108.593 | 217.5 | 74 | 0 | 2 | 30 | 12 | 48 | 0 |
| 15 | 6 | 109.533 | 217.2 | 75 | 13 | 2 | 30 | 12 | 48 | 0 |
| 16 | 5 | 110.762 | 216.6 | 76 | 24 | 2 | 30 | 12 | 48 | 0 |
| 17 | 4 | 112.412 | 217.8 | 77 | 2 | 2 | 30 | 12 | 48 | 0/12 |
| 18 | 3 | 113.662 | 217.4 | 78 | 3 | 2 | 30 | 12 | 48 | 0 |
| 19 | 2 | 114.816 | 216.9 | 79 | 35 | | 30 | 12 | 48 | 1 |
| 20 | 1 | 115.953 | 217.5 | 80 | 13 | 2 | 30 | 12 | 48 | 0/12 |

FIELD DATA TABLE

HANFORD EXPERIMENT NO 27

Shot number 2 Shot point 1003 Team 5

Shot time: 232:11: 4: 0.011

| | Loc | Dist(km) | Azim | Unit | Chron | Chan | C1 | C2 | C3 | Tape grade |
|----|-----|----------|-------|------|-------|------|----|----|----|------------|
| 1 | 95 | 8.256 | 215.4 | 81 | -19 | 3 | 30 | 12 | 48 | 0 |
| 2 | 94 | 9.185 | 213.6 | 82 | -11 | 1 | 30 | 12 | 48 | 0 |
| 3 | 93 | 10.238 | 215.3 | 83 | 18 | 1 | 30 | 12 | 48 | 10 |
| 4 | 92 | 11.333 | 216.0 | 84 | 15 | 1 | 30 | 12 | 48 | 0 |
| 5 | 91 | 12.173 | 215.3 | 85 | -30 | 1 | 30 | 12 | 48 | 10 |
| 6 | 90 | 13.200 | 215.4 | 86 | 1 | 1 | 30 | 12 | 48 | 0 |
| 7 | 89 | 14.095 | 213.9 | 87 | -195 | 1 | 30 | 12 | 48 | 0 |
| 8 | 88 | 15.095 | 215.0 | 88 | 23 | 1 | 30 | 12 | 48 | 0 |
| 9 | 87 | 15.948 | 214.9 | 89 | 12 | | 30 | 12 | 48 | |
| 10 | 86 | 16.726 | 214.6 | 90 | 14 | 1 | 30 | 12 | 48 | 0 |
| 11 | 85 | 18.088 | 215.1 | 91 | 5 | 1 | 30 | 12 | 48 | 0 |
| 12 | 84 | 19.037 | 215.2 | 92 | 6 | 2 | 30 | 12 | 48 | 0 |
| 13 | 83 | 20.129 | 215.3 | 93 | 5 | 1 | 30 | 12 | 48 | 0 |
| 14 | 82 | 20.986 | 215.3 | 94 | 21 | 1 | 30 | 12 | 48 | 10 |
| 15 | 81 | 21.957 | 214.5 | 95 | 29 | 1 | 30 | 12 | 48 | 10 |
| 16 | 80 | 22.577 | 213.4 | 96 | -34 | 2 | 30 | 12 | 48 | 0 |
| 17 | 79 | 23.592 | 213.6 | 97 | 8 | 2 | 30 | 12 | 48 | 0 |
| 18 | 78 | 24.654 | 214.1 | 98 | -13 | 1 | 30 | 12 | 48 | 10 |
| 19 | 77 | 26.133 | 215.4 | 99 | 12 | 2 | 30 | 12 | 48 | 0 |
| 20 | 76 | 27.084 | 215.8 | 100 | 11 | 1 | 30 | 12 | 48 | 0 |

FIELD DATA TABLE

HANFORD EXPERIMENT NO 27

Shot number 2 Shot point 1003 Team 6

Shot time: 232:11: 4: 0.011

| | Loc | Dist(km) | Azim | Unit | Chron | Chan | C1 | C2 | C3 | Tape grade |
|----|-----|----------|-------|------|-------|------|----|----|----|------------|
| 1 | 75 | 27.740 | 214.9 | 101 | 31 | 2 | 12 | 30 | 48 | 0 |
| 2 | 74 | 28.684 | 214.4 | 102 | 20 | 2 | 12 | 30 | 48 | 0 |
| 3 | 73 | 29.423 | 213.5 | 103 | 19 | 2 | 12 | 30 | 48 | 0 |
| 4 | 72 | 30.371 | 214.0 | 104 | 7 | 2 | 12 | 30 | 48 | 0 |
| 5 | 71 | 31.637 | 214.5 | 105 | 18 | 2 | 12 | 30 | 48 | 0 |
| 6 | 70 | 34.966 | 212.7 | 106 | -- | | 12 | 30 | 48 | 13 |
| 7 | 69 | 33.147 | 216.4 | 107 | -17 | 2 | 12 | 30 | 48 | 0 |
| 8 | 68 | 33.988 | 217.1 | 108 | -6 | | 12 | 30 | 48 | 1 |
| 9 | 67 | 35.021 | 217.2 | 109 | 0 | 2 | 12 | 30 | 48 | 0 |
| 10 | 66 | 35.995 | 216.1 | 110 | 23 | 2 | 12 | 30 | 48 | 0 |
| 11 | 65 | 36.921 | 215.6 | 111 | 13 | 2 | 12 | 30 | 48 | 0 |
| 12 | 64 | 37.778 | 215.3 | 112 | 27 | 2 | 12 | 30 | 48 | 0 |
| 13 | 63 | 38.369 | 215.6 | 113 | -12 | 2 | 12 | 30 | 48 | 0 |
| 14 | 62 | 39.642 | 216.5 | 114 | -3 | 2 | 12 | 30 | 48 | 0 |
| 15 | 61 | 40.651 | 215.5 | 115 | 0 | 2 | 12 | 30 | 48 | 0 |
| 16 | 60 | 41.734 | 215.2 | 116 | 39 | 2 | 12 | 30 | 48 | 12 |
| 17 | 59 | 42.390 | 214.8 | 117 | -47 | 2 | 12 | 30 | 48 | 0 |
| 18 | 58 | 43.773 | 215.3 | 118 | -14 | 2 | 12 | 30 | 48 | 0 |
| 19 | 57 | 44.659 | 215.2 | 119 | 3 | 2 | 12 | 30 | 48 | 0 |
| 20 | 56 | 45.336 | 215.2 | 120 | 0 | 2 | 12 | 30 | 48 | 0 |

FIELD DATA TABLE

HANFORD EXPERIMENT NO 27

Shot number 3 Shot point1004 Team 1

Shot time: 232:11: 6: 0.016

| | Loc | Dist(km) | Azim | Unit | Chron | Chan | C1 | C2 | C3 | Tape grade |
|----|-----|----------|-------|------|-------|------|----|----|----|------------|
| 1 | 37 | 11.479 | 221.7 | 1 | 17 | 1 | 30 | 12 | 48 | 0 |
| 2 | 36 | 13.081 | 220.9 | 2 | 25 | 1 | 30 | 12 | 48 | 0 |
| 3 | 35 | 14.159 | 219.5 | 3 | 11 | 1 | 30 | 12 | 48 | 0 |
| 4 | 34 | 15.858 | 219.0 | 4 | -93 | 1 | 30 | 12 | 48 | 0 |
| 5 | 33 | 17.279 | 220.6 | 5 | 17 | 1 | 30 | 12 | 48 | 0 |
| 6 | 32 | 18.611 | 220.7 | 6 | 10 | 1 | 30 | 12 | 48 | 0 |
| 7 | 31 | 19.972 | 221.2 | 7 | -28 | 2 | 30 | 12 | 48 | 0 |
| 8 | 30 | 21.941 | 221.2 | 8 | 12 | | 30 | 12 | 48 | 29 |
| 9 | 29 | 23.601 | 220.7 | 9 | 57 | 2 | 30 | 12 | 48 | 0 |
| 10 | 28 | 24.274 | 217.5 | 10 | -31 | 2 | 30 | 12 | 48 | 0 |
| 11 | 27 | 26.671 | 220.5 | 11 | -27 | 2 | 30 | 12 | 48 | 0 |
| 12 | 26 | 27.761 | 220.7 | 12 | 7 | 2 | 30 | 12 | 48 | 0/12 |
| 13 | 25 | 28.563 | 219.3 | 13 | 20 | 2 | 30 | 12 | 48 | 0 |
| 14 | 24 | 29.598 | 219.3 | 14 | 27 | 2 | 30 | 12 | 48 | 0 |
| 15 | 23 | 30.623 | 219.9 | 15 | -91 | 2 | 30 | 12 | 48 | 0 |
| 16 | | | | 16 | -11 | | 30 | 12 | 48 | 21 |
| 17 | 21 | 34.228 | 220.3 | 17 | 30 | 2 | 30 | 12 | 48 | 0 |
| 18 | 22 | 32.232 | 220.2 | 18 | 0 | 2 | 30 | 12 | 48 | 0 |
| 19 | 117 | 67.048 | 36.0 | 19 | 11 | 2 | 30 | 12 | 48 | 0 |
| 20 | 118 | 67.989 | 35.6 | 20 | -33 | 2 | 30 | 12 | 48 | 0 |

FIELD DATA TABLE

HANFORD EXPERIMENT NO 27

Shot number 3 Shot point1004 Team 2

Shot time: 232:11: 6: 0.016

| | Loc | Dist(km) | Azim | Unit | Chron | Chan | C1 | C2 | C3 | Tape grade |
|----|-----|----------|-------|------|-------|------|----|----|----|------------|
| 1 | 54 | 7.755 | 28.6 | 21 | 7 | | 30 | 12 | 48 | 28 |
| 2 | 53 | 7.030 | 31.8 | 22 | -2 | 1 | 30 | 12 | 48 | 0 |
| 3 | 52 | 6.348 | 35.7 | 23 | 6 | | 30 | 12 | 48 | 1 |
| 4 | 51 | 5.187 | 27.8 | 24 | -17 | 3 | 30 | 12 | 48 | 0 |
| 5 | 50 | 4.342 | 28.8 | 25 | -5 | 3 | 30 | 12 | 48 | 0 |
| 6 | 49 | 3.223 | 8.6 | 26 | -9 | | 30 | 12 | 48 | 1 |
| 7 | 48 | 2.327 | 11.6 | 27 | 17 | | 30 | 12 | 68 | 1 |
| 8 | 47 | 1.463 | 17.9 | 28 | -146 | 3 | 30 | 12 | 68 | 0 |
| 9 | 501 | 0.979 | 5.6 | 29 | 14 | 3 | 30 | 12 | 68 | 0 |
| 10 | 46 | 0.098 | 46.7 | 30 | -8 | 3 | 30 | 12 | 88 | 0 |
| 11 | 45 | 2.876 | 256.3 | 31 | 13 | | 30 | 12 | 68 | 6 |
| 12 | 500 | 0.170 | 260.3 | 32 | -9 | 3 | 30 | 12 | 88 | 0 |
| 13 | 44 | 3.220 | 240.0 | 33 | 36 | 3 | 30 | 12 | 48 | -0 |
| 14 | 43 | 3.780 | 226.4 | 34 | -6 | 3 | 30 | 12 | 48 | 0 |
| 15 | 42 | 5.699 | 230.7 | 35 | -46 | 3 | 30 | 12 | 48 | 0 |
| 16 | 41 | 6.914 | 223.7 | 36 | 0 | | 30 | 12 | 48 | 1 |
| 17 | 40 | 7.950 | 217.5 | 37 | 42 | 1 | 30 | 12 | 48 | 0 |
| 18 | 39 | 9.007 | 221.7 | 38 | -11 | 1 | 30 | 12 | 48 | 0 |
| 19 | 38 | 10.606 | 219.1 | 39 | -8 | 1 | 30 | 12 | 48 | 0 |
| 20 | 507 | 13.509 | 220.0 | 40 | -4 | 1 | 30 | 12 | 48 | 0 |

FIELD DATA TABLE

HANFORD EXPERIMENT NO 27

Shot number 3 Shot point1004 Team 3

Shot time: 232:11: 6: 0.016

| | Loc | Dist(km) | Azim | Unit | Chron | Chan | C1 | C2 | C3 | Tape grade |
|----|-----|----------|------|------|-------|------|----|----|----|------------|
| 1 | 96 | 47.875 | 34.7 | 41 | -6 | 2 | 30 | 12 | 48 | 12 |
| 2 | 97 | 48.832 | 34.9 | 42 | 5 | 2 | 30 | 12 | 48 | 12 |
| 3 | 98 | 49.572 | 35.1 | 43 | -22 | 1 | 30 | 12 | 48 | 12 |
| 4 | 99 | 48.750 | 36.3 | 44 | 44 | 2 | 30 | 12 | 48 | 12 |
| 5 | 100 | 51.403 | 34.2 | 45 | 3 | 2 | 30 | 12 | 48 | 0 |
| 6 | 102 | 53.304 | 34.8 | 46 | 0 | 2 | 30 | 12 | 68 | 0 |
| 7 | 101 | 52.511 | 35.0 | 47 | 44 | 2 | 30 | 12 | 68 | 2 |
| 8 | 103 | 54.456 | 34.3 | 48 | -16 | 2 | 30 | 12 | 88 | 0 |
| 9 | 105 | 55.196 | 34.8 | 49 | 6 | 2 | 30 | 12 | 88 | 0 |
| 10 | 106 | 56.169 | 34.9 | 50 | -15 | 2 | 30 | 12 | 88 | 0 |
| 11 | 107 | 57.107 | 35.0 | 51 | 1 | 2 | 30 | 12 | 68 | 0 |
| 12 | 108 | 58.084 | 35.0 | 52 | 5 | 2 | 30 | 12 | 68 | 0 |
| 13 | 109 | 58.896 | 34.9 | 53 | 5 | 2 | 30 | 12 | 48 | 0 |
| 14 | 110 | 59.889 | 34.9 | 54 | -17 | | 30 | 12 | 48 | 1 |
| 15 | 111 | 60.892 | 35.1 | 55 | -7 | 2 | 30 | 12 | 48 | 0 |
| 16 | 112 | 61.825 | 35.2 | 56 | 6 | 2 | 30 | 12 | 48 | 32 |
| 17 | 113 | 62.918 | 35.2 | 57 | -7 | 2 | 30 | 12 | 48 | 0 |
| 18 | 114 | 63.891 | 35.6 | 58 | 12 | 2 | 30 | 12 | 48 | 1 |
| 19 | 115 | 64.546 | 35.2 | 59 | -6 | 2 | 30 | 12 | 48 | 0 |
| 20 | 116 | 61.926 | 38.8 | 60 | -8 | 2 | 30 | 12 | 48 | 0 |

FIELD DATA TABLE

HANFORD EXPERIMENT NO 27

Shot number 3 Shot point1004 Team 4

Shot time: 232:11: 6: 0.016

| | Loc | Dist(km) | Azim | Unit | Chron | Chan | C1 | C2 | C3 | Tape grade |
|----|-----|----------|-------|------|-------|------|----|----|----|------------|
| 1 | 20 | 34.971 | 215.8 | 61 | 11 | 2 | 30 | 12 | 48 | 0 |
| 2 | 19 | 47.342 | 232.1 | 62 | -- | | 30 | 12 | 48 | 20 |
| 3 | 18 | 39.071 | 220.1 | 63 | 10 | 2 | 30 | 12 | 48 | 0 |
| 4 | 17 | 40.106 | 219.9 | 64 | 16 | 2 | 30 | 12 | 48 | 0 |
| 5 | 16 | 41.404 | 219.3 | 65 | -- | | 30 | 12 | 48 | 1 |
| 6 | 15 | 42.479 | 220.3 | 66 | -4 | 2 | 30 | 12 | 48 | 0 |
| 7 | 14 | 43.405 | 219.6 | 67 | -28 | | 30 | 12 | 48 | 6 |
| 8 | 13 | 45.365 | 220.0 | 68 | -13 | 2 | 30 | 12 | 48 | 12 |
| 9 | 12 | 46.907 | 220.0 | 69 | 4 | 3 | 30 | 12 | 48 | 9 |
| 10 | 11 | 47.606 | 221.4 | 70 | 58 | 2 | 30 | 12 | 48 | 0 |
| 11 | 10 | 49.120 | 219.7 | 71 | -9 | 2 | 30 | 12 | 48 | 0 |
| 12 | 9 | 51.337 | 220.9 | 72 | -- | | 30 | 12 | 48 | 1 |
| 13 | 8 | 52.153 | 219.6 | 73 | -9 | 2 | 30 | 12 | 48 | 0 |
| 14 | 7 | 53.670 | 220.3 | 74 | 0 | 2 | 30 | 12 | 48 | 0 |
| 15 | 6 | 54.578 | 219.6 | 75 | 14 | 2 | 30 | 12 | 48 | 0 |
| 16 | 5 | 55.760 | 218.4 | 76 | 24 | 2 | 30 | 12 | 48 | 0 |
| 17 | 4 | 57.517 | 220.6 | 77 | 2 | 2 | 30 | 12 | 48 | 12 |
| 18 | 3 | 58.720 | 219.7 | 78 | 3 | 2 | 30 | 12 | 48 | 0 |
| 19 | 2 | 59.838 | 218.8 | 79 | 35 | | 30 | 12 | 48 | 1 |
| 20 | 1 | 61.022 | 219.8 | 80 | 13 | 2 | 30 | 12 | 48 | 12 |

FIELD DATA TABLE

HANFORD EXPERIMENT NO 27

Shot number 3 Shot point1004 Team 5

Shot time: 232:11: 6: 0.016

| | Loc | Dist(km) | Azim | Unit | Chron | Chan | C1 | C2 | C3 | Tape grade |
|----|-----|----------|------|------|-------|------|----|----|----|------------|
| 1 | 95 | 46.897 | 34.8 | 81 | -19 | 2 | 30 | 12 | 48 | 0 |
| 2 | 94 | 45.971 | 35.1 | 82 | -11 | 2 | 30 | 12 | 48 | 0 |
| 3 | 93 | 44.915 | 34.8 | 83 | 18 | 1 | 30 | 12 | 48 | 10 |
| 4 | 92 | 43.822 | 34.6 | 84 | 15 | 2 | 30 | 12 | 48 | 10 |
| 5 | 91 | 42.980 | 34.7 | 85 | -30 | 1 | 30 | 12 | 48 | 10 |
| 6 | 90 | 41.953 | 34.7 | 86 | 1 | 1 | 30 | 12 | 48 | 0 |
| 7 | 89 | 41.061 | 35.2 | 87 | -196 | 2 | 30 | 12 | 48 | 0 |
| 8 | 88 | 40.058 | 34.8 | 88 | 23 | 2 | 30 | 12 | 48 | 0 |
| 9 | 87 | 39.205 | 34.9 | 89 | 12 | | 30 | 12 | 48 | 1 |
| 10 | 86 | 38.427 | 35.0 | 90 | 14 | 2 | 30 | 12 | 48 | 10 |
| 11 | 85 | 37.065 | 34.7 | 91 | 5 | 2 | 30 | 12 | 48 | 10 |
| 12 | 84 | 36.116 | 34.7 | 92 | 6 | 1 | 30 | 12 | 48 | 10 |
| 13 | 83 | 35.025 | 34.6 | 93 | 5 | 1 | 30 | 12 | 48 | 10 |
| 14 | 82 | 34.167 | 34.6 | 94 | 21 | 1 | 30 | 12 | 48 | 10 |
| 15 | 81 | 33.197 | 35.1 | 95 | 29 | 1 | 30 | 12 | 48 | 10 |
| 16 | 80 | 32.590 | 35.9 | 96 | -34 | 2 | 30 | 12 | 48 | 10 |
| 17 | 79 | 31.573 | 35.8 | 97 | 8 | 1 | 30 | 12 | 48 | 0 |
| 18 | 78 | 30.503 | 35.5 | 98 | -13 | 1 | 30 | 12 | 48 | 0 |
| 19 | 77 | 29.022 | 34.3 | 99 | 12 | 1 | 30 | 12 | 48 | 0 |
| 20 | 76 | 28.076 | 33.9 | 100 | 11 | 1 | 30 | 12 | 48 | 0 |

FIELD DATA TABLE

HANFORD EXPERIMENT NO 27

Shot number 3 Shot point1004 Team 6

Shot time: 232:11: 6: 0.016

| | Loc | Dist(km) | Azim | Unit | Chron | Chan | C1 | C2 | C3 | Tape grade |
|----|-----|----------|------|------|-------|------|----|----|----|------------|
| 1 | 75 | 27.413 | 34.8 | 101 | 31 | 1 | 12 | 30 | 48 | 0 |
| 2 | 74 | 26.471 | 35.3 | 102 | 20 | 1 | 12 | 30 | 48 | 0 |
| 3 | 73 | 25.749 | 36.4 | 103 | 19 | 1 | 12 | 30 | 48 | 0 |
| 4 | 72 | 24.791 | 35.9 | 104 | 7 | 1 | 12 | 30 | 48 | 0 |
| 5 | 71 | 23.518 | 35.4 | 105 | 18 | 1 | 12 | 30 | 48 | 0 |
| 6 | 70 | 20.256 | 38.5 | 106 | -- | | 12 | 30 | 48 | 13 |
| 7 | 69 | 22.033 | 32.6 | 107 | -17 | 1 | 12 | 30 | 48 | 0 |
| 8 | 68 | 21.227 | 31.3 | 108 | -6 | 1 | 12 | 30 | 48 | 0 |
| 9 | 67 | 20.212 | 30.7 | 109 | 0 | 1 | 12 | 30 | 48 | 0 |
| 10 | 66 | 19.180 | 32.5 | 110 | 23 | 1 | 12 | 30 | 48 | 0 |
| 11 | 65 | 18.241 | 33.3 | 111 | 13 | 1 | 12 | 30 | 48 | 0 |
| 12 | 64 | 17.377 | 33.9 | 112 | 27 | 1 | 12 | 30 | 48 | 0 |
| 13 | 63 | 16.793 | 33.2 | 113 | -12 | 1 | 12 | 30 | 48 | 0 |
| 14 | 62 | 15.570 | 30.5 | 114 | -3 | 3 | 12 | 30 | 48 | 0 |
| 15 | 61 | 14.510 | 33.1 | 115 | 0 | 3 | 12 | 30 | 48 | 0 |
| 16 | 60 | 13.421 | 33.9 | 116 | 39 | 1 | 12 | 30 | 48 | 0 |
| 17 | 59 | 12.763 | 35.2 | 117 | -47 | 1 | 12 | 30 | 48 | 0 |
| 18 | 58 | 11.385 | 33.3 | 118 | -14 | 3 | 12 | 30 | 48 | 0 |
| 19 | 57 | 10.497 | 33.4 | 119 | 3 | 3 | 12 | 30 | 48 | 0 |
| 20 | 56 | 9.822 | 33.1 | 120 | 0 | 3 | 12 | 30 | 48 | 0 |

FIELD DATA TABLE

HANFORD EXPERIMENT NO 27

Shot number 4 Shot point1002 Team 1

Shot time: 232:11:32: 0.010

| | Loc | Dist(km) | Azim | Unit | Chron | Chan | C1 | C2 | C3 | Tape grade |
|----|-----|----------|-------|------|-------|------|----|----|----|------------|
| 1 | 37 | 112.795 | 216.9 | 1 | 18 | 2 | 30 | 12 | 48 | 0 |
| 2 | 36 | 114.404 | 216.8 | 2 | 26 | 2 | 30 | 12 | 48 | 0 |
| 3 | 35 | 115.500 | 216.7 | 3 | 11 | 2 | 30 | 12 | 48 | 0 |
| 4 | 34 | 117.202 | 216.7 | 4 | -94 | 2 | 30 | 12 | 48 | 0 |
| 5 | 33 | 118.592 | 216.9 | 5 | 17 | 2 | 30 | 12 | 48 | 0 |
| 6 | 32 | 119.918 | 217.0 | 6 | 10 | 2 | 30 | 12 | 48 | 0 |
| 7 | 31 | 121.260 | 217.1 | 7 | -28 | 2 | 30 | 12 | 48 | 0 |
| 8 | 30 | 123.222 | 217.2 | 8 | 12 | 2 | 30 | 12 | 48 | 0 |
| 9 | 29 | 124.889 | 217.1 | 9 | 58 | 2 | 30 | 12 | 48 | 0 |
| 10 | 28 | 125.624 | 216.6 | 10 | -31 | 2 | 30 | 12 | 48 | 0 |
| 11 | 27 | 127.957 | 217.2 | 11 | -27 | 2 | 30 | 12 | 48 | 0 |
| 12 | 26 | 129.038 | 217.2 | 12 | 8 | 2 | 30 | 12 | 48 | 0/12 |
| 13 | 25 | 129.877 | 217.0 | 13 | 21 | 2 | 30 | 12 | 48 | 0/12 |
| 14 | 24 | 130.909 | 217.0 | 14 | 28 | 2 | 30 | 12 | 48 | 0 |
| 15 | 23 | 131.915 | 217.1 | 15 | -92 | 2 | 30 | 12 | 48 | 0 |
| 16 | | | | 16 | -11 | | 30 | 12 | 48 | 21 |
| 17 | 21 | 135.500 | 217.3 | 17 | 30 | 2 | 30 | 12 | 48 | 0 |
| 18 | 22 | 133.513 | 217.2 | 18 | 0 | 2 | 30 | 12 | 48 | 0/12 |
| 19 | 117 | 34.417 | 217.0 | 19 | 11 | 1 | 30 | 12 | 48 | 0 |
| 20 | 118 | 33.488 | 217.9 | 20 | -34 | 2 | 30 | 12 | 48 | 0 |

FIELD DATA TABLE

HANFORD EXPERIMENT NO 27

Shot number 4 Shot point1002 Team 2

Shot time: 232:11:32: 0.010

| | Loc | Dist(km) | Azim | Unit | Chron | Chan | C1 | C2 | C3 | Tape grade |
|----|-----|----------|-------|------|-------|------|----|----|----|------------|
| 1 | 54 | 93.697 | 217.0 | 21 | 7 | | 30 | 12 | 48 | 28 |
| 2 | 53 | 94.373 | 216.7 | 22 | -2 | 2 | 30 | 12 | 48 | 0 |
| 3 | 52 | 95.035 | 216.4 | 23 | 5 | | 30 | 12 | 48 | 1 |
| 4 | 51 | 96.250 | 216.8 | 24 | -17 | 2 | 30 | 12 | 48 | 0 |
| 5 | 50 | 97.074 | 216.7 | 25 | -6 | 2 | 30 | 12 | 48 | 0 |
| 6 | 49 | 98.527 | 217.2 | 26 | -9 | | 30 | 12 | 48 | 1 |
| 7 | 48 | 99.263 | 216.9 | 27 | 17 | | 30 | 12 | 68 | 1 |
| 8 | 47 | 99.989 | 216.6 | 28 | -148 | 2 | 30 | 12 | 68 | 0 |
| 9 | 501 | 100.534 | 216.6 | 29 | 14 | 2 | 30 | 12 | 68 | 0 |
| 10 | 46 | 101.282 | 216.3 | 30 | -8 | 2 | 30 | 12 | 88 | 0 |
| 11 | 45 | 103.580 | 217.3 | 31 | 13 | | 30 | 12 | 68 | 1 |
| 12 | 500 | 101.500 | 216.4 | 32 | -9 | 2 | 30 | 12 | 88 | 0 |
| 13 | 44 | 104.324 | 217.0 | 33 | 36 | 2 | 30 | 12 | 48 | 0 |
| 14 | 43 | 105.094 | 216.7 | 34 | -6 | 2 | 30 | 12 | 48 | 0 |
| 15 | 42 | 106.891 | 217.1 | 35 | -47 | 2 | 30 | 12 | 48 | 0 |
| 16 | 41 | 108.226 | 216.8 | 36 | 0 | | 30 | 12 | 48 | 1 |
| 17 | 40 | 109.319 | 216.4 | 37 | 42 | 2 | 30 | 12 | 48 | 0 |
| 18 | 39 | 110.335 | 216.8 | 38 | -11 | 2 | 30 | 12 | 48 | 0 |
| 19 | 38 | 111.960 | 216.6 | 39 | -8 | 2 | 30 | 12 | 48 | 0 |
| 20 | 507 | 114.844 | 216.8 | 40 | -4 | 2 | 30 | 12 | 48 | 0 |

FIELD DATA TABLE

HANFORD EXPERIMENT NO 27

Shot number 4 Shot point1002 Team 3

Shot time: 232:11:32: 0.010

| | Loc | Dist(km) | Azim | Unit | Chron | Chan | C1 | C2 | C3 | Tape grade |
|----|-----|----------|-------|------|-------|------|----|----|----|------------|
| 1 | 96 | 53.617 | 217.7 | 41 | -6 | 1 | 30 | 12 | 48 | 12 |
| 2 | 97 | 52.656 | 217.7 | 42 | 5 | 2 | 30 | 12 | 48 | 12 |
| 3 | 98 | 51.910 | 217.5 | 43 | -22 | 2 | 30 | 12 | 48 | 12 |
| 4 | 99 | 52.713 | 216.3 | 44 | 45 | 1 | 30 | 12 | 48 | 0 |
| 5 | 100 | 50.119 | 218.5 | 45 | 3 | 1 | 30 | 12 | 48 | 0 |
| 6 | 102 | 48.192 | 218.0 | 46 | 0 | 1 | 30 | 12 | 68 | 0 |
| 7 | 101 | 48.976 | 217.8 | 47 | 45 | 2 | 30 | 12 | 68 | 2 |
| 8 | 103 | 47.068 | 218.6 | 48 | -16 | 2 | 30 | 12 | 88 | 0 |
| 9 | 105 | 46.303 | 218.1 | 49 | 6 | 2 | 30 | 12 | 88 | 0 |
| 10 | 106 | 45.323 | 218.0 | 50 | -15 | 2 | 30 | 12 | 88 | 0 |
| 11 | 107 | 44.383 | 218.0 | 51 | 1 | 2 | 30 | 12 | 68 | 0 |
| 12 | 108 | 43.409 | 218.1 | 52 | 5 | 2 | 30 | 12 | 68 | 0 |
| 13 | 109 | 42.603 | 218.3 | 53 | 5 | 2 | 30 | 12 | 48 | 0 |
| 14 | 110 | 41.614 | 218.4 | 54 | -17 | | 30 | 12 | 48 | 1 |
| 15 | 111 | 40.601 | 218.2 | 55 | -8 | 2 | 30 | 12 | 48 | 0 |
| 16 | 112 | 39.664 | 218.1 | 56 | 7 | 2 | 30 | 12 | 48 | 0 |
| 17 | 113 | 38.573 | 218.2 | 57 | -7 | 2 | 30 | 12 | 48 | 0 |
| 18 | 114 | 37.583 | 217.6 | 58 | 12 | 2 | 30 | 12 | 48 | 0 |
| 19 | 115 | 36.946 | 218.3 | 59 | -6 | 2 | 30 | 12 | 48 | 0 |
| 20 | 116 | 39.694 | 212.5 | 60 | -8 | 2 | 30 | 12 | 48 | 0 |

FIELD DATA TABLE

HANFORD EXPERIMENT NO 27

Shot number 4 Shot point1002 Team 4

Shot time: 232:11:32: 0.010

| | Loc | Dist(km) | Azim | Unit | Chron | Chan | C1 | C2 | C3 | Tape grade |
|----|-----|----------|-------|------|-------|------|----|----|----|------------|
| 1 | 20 | 136.323 | 216.2 | 61 | 12 | 2 | 30 | 12 | 48 | 0 |
| 2 | 19 | 147.345 | 221.3 | 62 | -- | | 30 | 12 | 48 | 20 |
| 3 | 18 | 140.338 | 217.4 | 63 | 10 | 2 | 30 | 12 | 48 | 0 |
| 4 | 17 | 141.375 | 217.3 | 64 | 16 | 2 | 30 | 12 | 48 | 0 |
| 5 | 16 | 142.693 | 217.2 | 65 | -- | | 30 | 12 | 48 | 20 |
| 6 | 15 | 143.728 | 217.5 | 66 | -4 | | 30 | 12 | 48 | 3 |
| 7 | 14 | 144.681 | 217.3 | 67 | -28 | | 30 | 12 | 48 | 3 |
| 8 | 13 | 146.620 | 217.4 | 68 | -13 | | 30 | 12 | 48 | 3 |
| 9 | 12 | 148.158 | 217.5 | 69 | 4 | | 30 | 12 | 48 | 3 |
| 10 | 11 | 148.787 | 217.9 | 70 | 59 | | 30 | 12 | 48 | 3 |
| 11 | 10 | 150.377 | 217.4 | 71 | -9 | | 30 | 12 | 48 | 3 |
| 12 | 9 | 152.531 | 217.9 | 72 | -- | | 30 | 12 | 48 | 3 |
| 13 | 8 | 153.410 | 217.4 | 73 | -9 | | 30 | 12 | 48 | 3 |
| 14 | 7 | 154.891 | 217.7 | 74 | 0 | | 30 | 12 | 48 | 3 |
| 15 | 6 | 155.830 | 217.5 | 75 | 14 | | 30 | 12 | 48 | 3 |
| 16 | 5 | 157.055 | 217.1 | 76 | 24 | | 30 | 12 | 48 | 3 |
| 17 | 4 | 158.710 | 217.9 | 77 | 2 | | 30 | 12 | 48 | 3 |
| 18 | 3 | 159.960 | 217.6 | 78 | 4 | | 30 | 12 | 48 | 3 |
| 19 | 2 | 161.112 | 217.2 | 79 | 35 | | 30 | 12 | 48 | 3 |
| 20 | 1 | 162.251 | 217.6 | 80 | 13 | | 30 | 12 | 48 | 3 |

FIELD DATA TABLE

HANFORD EXPERIMENT NO 27

Shot number 4 Shot point 1002 Team 5

Shot time: 232:11:32: 0.010

| | Loc | Dist(km) | Azim | Unit | Chron | Chan | C1 | C2 | C3 | Tape grade |
|----|-----|----------|-------|------|-------|------|----|----|----|------------|
| 1 | 95 | 54.592 | 217.7 | 81 | -19 | 2 | 30 | 12 | 48 | 0 |
| 2 | 94 | 55.506 | 217.3 | 82 | -11 | 1 | 30 | 12 | 48 | 10 |
| 3 | 93 | 56.572 | 217.6 | 83 | 18 | 2 | 30 | 12 | 48 | 10 |
| 4 | 92 | 57.671 | 217.7 | 84 | 15 | 2 | 30 | 12 | 48 | 10 |
| 5 | 91 | 58.506 | 217.5 | 85 | -31 | 1 | 30 | 12 | 48 | 10 |
| 6 | 90 | 59.533 | 217.5 | 86 | 1 | 1 | 30 | 12 | 48 | 10 |
| 7 | 89 | 60.412 | 217.1 | 87 | -199 | 1 | 30 | 12 | 48 | 0 |
| 8 | 88 | 61.423 | 217.3 | 88 | 24 | 2 | 30 | 12 | 48 | 10 |
| 9 | 87 | 62.274 | 217.2 | 89 | 12 | | 30 | 12 | 48 | 1 |
| 10 | 86 | 63.049 | 217.1 | 90 | 15 | 2 | 30 | 12 | 48 | 10 |
| 11 | 85 | 64.415 | 217.2 | 91 | 5 | 2 | 30 | 12 | 48 | 10 |
| 12 | 84 | 65.365 | 217.2 | 92 | 6 | 2 | 30 | 12 | 48 | 10 |
| 13 | 83 | 66.457 | 217.2 | 93 | 5 | 1 | 30 | 12 | 48 | 10 |
| 14 | 82 | 67.314 | 217.2 | 94 | 21 | 1 | 30 | 12 | 48 | 10 |
| 15 | 81 | 68.274 | 216.9 | 95 | 29 | 2 | 30 | 12 | 48 | 10 |
| 16 | 80 | 68.874 | 216.5 | 96 | -35 | 2 | 30 | 12 | 48 | 10 |
| 17 | 79 | 69.891 | 216.5 | 97 | 8 | 2 | 30 | 12 | 48 | 10 |
| 18 | 78 | 70.963 | 216.7 | 98 | -13 | 1 | 30 | 12 | 48 | 0 |
| 19 | 77 | 72.461 | 217.1 | 99 | 12 | 3 | 30 | 12 | 48 | 0 |
| 20 | 76 | 73.415 | 217.2 | 100 | 12 | 2 | 30 | 12 | 48 | 0 |

FIELD DATA TABLE

HANFORD EXPERIMENT NO 27

Shot number 4 Shot point 1002 Team 6

Shot time: 232:11:32: 0.010

| | Loc | Dist(km) | Azim | Unit | Chron | Chan | C1 | C2 | C3 | Tape grade |
|----|-----|----------|-------|------|-------|------|----|----|----|------------|
| 1 | 75 | 74.060 | 216.9 | 101 | 31 | 3 | 12 | 30 | 48 | 0 |
| 2 | 74 | 74.995 | 216.7 | 102 | 21 | 2 | 12 | 30 | 48 | 0 |
| 3 | 73 | 75.714 | 216.3 | 103 | 19 | 2 | 12 | 30 | 48 | 0 |
| 4 | 72 | 76.673 | 216.5 | 104 | 7 | 2 | 12 | 30 | 48 | 0 |
| 5 | 71 | 77.948 | 216.6 | 105 | 18 | 2 | 12 | 30 | 48 | 0 |
| 6 | 70 | 81.163 | 215.8 | 106 | -- | | 12 | 30 | 48 | 13 |
| 7 | 69 | 79.484 | 217.4 | 107 | -17 | 2 | 12 | 30 | 48 | 0 |
| 8 | 68 | 80.255 | 217.6 | 108 | -6 | 2 | 12 | 30 | 48 | 0 |
| 9 | 67 | 81.288 | 217.7 | 109 | 0 | 2 | 12 | 30 | 48 | 6 |
| 10 | 66 | 82.254 | 217.2 | 110 | 24 | 2 | 12 | 30 | 48 | 0 |
| 11 | 65 | 83.175 | 217.0 | 111 | 13 | 2 | 12 | 30 | 48 | 0 |
| 12 | 64 | 84.027 | 216.8 | 112 | 27 | 2 | 12 | 30 | 48 | 0 |
| 13 | 63 | 84.621 | 216.9 | 113 | -12 | 2 | 12 | 30 | 48 | 0 |
| 14 | 62 | 85.902 | 217.4 | 114 | -3 | 2 | 12 | 30 | 48 | 0 |
| 15 | 61 | 86.899 | 216.8 | 115 | 0 | 2 | 12 | 30 | 48 | 0 |
| 16 | 60 | 87.977 | 216.7 | 116 | 40 | 2 | 12 | 30 | 48 | 6 |
| 17 | 59 | 88.626 | 216.5 | 117 | -48 | 2 | 12 | 30 | 48 | 6 |
| 18 | 58 | 90.015 | 216.7 | 118 | -14 | 2 | 12 | 30 | 48 | 6 |
| 19 | 57 | 90.900 | 216.7 | 119 | 3 | 2 | 12 | 30 | 48 | 0 |
| 20 | 56 | 91.576 | 216.7 | 120 | 0 | 2 | 12 | 30 | 48 | 0 |

FIELD DATA TABLE

HANFORD EXPERIMENT NO 27

Shot number 5 Shot point1001 Team 1

Shot time: 236: 9: 0: 0.014

| | Loc | Dist(km) | Azim | Unit | Chron | Chan | C1 | C2 | C3 | Tape grade |
|----|-----|----------|-------|------|-------|------|----|----|----|------------|
| 1 | 134 | 54.679 | 214.0 | 1 | 12 | 2 | 30 | 12 | 48 | 12 |
| 2 | 133 | 55.635 | 214.3 | 2 | 6 | 1 | 30 | 12 | 48 | 12 |
| 3 | 510 | 56.539 | 213.8 | 3 | 9 | 1 | 30 | 12 | 48 | 12 |
| 4 | 511 | 57.752 | 213.6 | 4 | -86 | 1 | 30 | 12 | 48 | 12 |
| 5 | 132 | 58.528 | 214.6 | 5 | 12 | 1 | 30 | 12 | 48 | 12 |
| 6 | 131 | 59.278 | 214.4 | 6 | -10 | | 30 | 12 | 48 | 1 |
| 7 | 130 | 60.996 | 214.6 | 7 | -21 | 1 | 30 | 12 | 48 | 12 |
| 8 | 129 | 61.780 | 214.8 | 8 | -37 | | 30 | 12 | 48 | 12 |
| 9 | 128 | 62.479 | 214.4 | 9 | 44 | 2 | 30 | 12 | 48 | 12 |
| 10 | 127 | 63.079 | 214.0 | 10 | -25 | 2 | 30 | 12 | 48 | 12 |
| 11 | 126 | 64.111 | 214.6 | 11 | 5 | 2 | 30 | 12 | 48 | 12 |
| 12 | 125 | 64.942 | 215.0 | 12 | -24 | 2 | 30 | 12 | 48 | 0 |
| 13 | 124 | 66.261 | 215.4 | 13 | 19 | 2 | 30 | 12 | 48 | 0 |
| 14 | 123 | 67.172 | 215.4 | 14 | 25 | 2 | 30 | 12 | 48 | 0 |
| 15 | 122 | 68.176 | 215.5 | 15 | -83 | 2 | 30 | 12 | 48 | 0 |
| 16 | 121 | 69.167 | 215.4 | 16 | 3 | 2 | 30 | 12 | 48 | 0 |
| 17 | 120 | 70.052 | 214.5 | 17 | 21 | | 30 | 12 | 48 | 29 |
| 18 | 119 | 71.144 | 214.5 | 18 | -2 | 2 | 30 | 12 | 48 | 12 |
| 19 | 117 | 73.033 | 214.5 | 19 | 46 | 2 | 30 | 12 | 48 | 12 |
| 20 | 118 | 72.080 | 214.8 | 20 | -8 | 2 | 30 | 12 | 48 | 0 |

FIELD DATA TABLE

HANFORD EXPERIMENT NO 27

Shot number 5 Shot point1001 Team 2

Shot time: 236: 9: 0: 0.014

| | Loc | Dist(km) | Azim | Unit | Chron | Chan | C1 | C2 | C3 | Tape grade |
|----|-----|----------|------|------|-------|------|----|----|----|------------|
| 1 | 508 | 4.167 | 47.1 | 21 | 2 | 3 | 30 | 12 | 48 | 0 |
| 2 | 193 | 5.399 | 27.8 | 22 | 11 | 3 | 30 | 12 | 48 | 12 |
| 3 | 194 | 6.598 | 32.0 | 23 | 17 | 3 | 30 | 12 | 48 | 12 |
| 4 | 195 | 7.382 | 29.4 | 24 | -2 | 3 | 30 | 12 | 48 | 12 |
| 5 | 196 | 9.490 | 32.3 | 25 | -3 | 3 | 30 | 12 | 48 | 12 |
| 6 | 197 | 10.682 | 30.9 | 26 | 6 | 3 | 30 | 12 | 48 | 0 |
| 7 | 198 | 12.173 | 32.5 | 27 | 9 | 3 | 30 | 12 | 48 | 0 |
| 8 | 199 | 13.439 | 33.0 | 28 | -3 | 3 | 30 | 12 | 48 | 12 |
| 9 | 200 | 14.937 | 34.0 | 29 | 10 | 1 | 30 | 12 | 48 | 0 |
| 10 | 201 | 16.212 | 31.0 | 30 | 5 | 1 | 30 | 12 | 48 | 12 |
| 11 | 202 | 17.475 | 31.5 | 31 | 8 | 1 | 30 | 12 | 48 | 0 |
| 12 | 203 | 18.702 | 32.2 | 32 | 4 | 1 | 30 | 12 | 48 | 12 |
| 13 | 204 | 20.177 | 35.0 | 33 | 34 | 1 | 30 | 12 | 48 | 0 |
| 14 | 205 | 21.502 | 32.6 | 34 | 8 | 1 | 30 | 12 | 48 | 12 |
| 15 | 206 | 22.853 | 31.8 | 35 | -29 | 1 | 30 | 12 | 48 | 0 |
| 16 | 207 | 25.459 | 34.4 | 36 | -4 | 1 | 30 | 12 | 48 | 0 |
| 17 | 208 | 24.590 | 32.4 | 37 | -192 | 1 | 30 | 12 | 48 | 12 |
| 18 | 209 | 26.805 | 32.5 | 38 | 3 | | 30 | 12 | 48 | 24 |
| 19 | 210 | 28.470 | 31.6 | 39 | 6 | 1 | 30 | 12 | 48 | 12 |
| 20 | 211 | 29.682 | 30.2 | 40 | 6 | 1 | 30 | 12 | 48 | 12 |

FIELD DATA TABLE

HANFORD EXPERIMENT NO 27

Shot number 5 Shot point 1001 Team 3
Shot time: 236: 9: 0: 0.014

| | Loc | Dist(km) | Azim | Unit | Chron | Chan | C1 | C2 | C3 | Tape grade |
|----|-----|----------|-------|------|-------|------|----|----|----|------------|
| 1 | 512 | 36.034 | 211.2 | 41 | -16 | 1 | 30 | 12 | 48 | 0 |
| 2 | 513 | 34.796 | 210.6 | 42 | 0 | 1 | 30 | 12 | 48 | 0 |
| 3 | 514 | 33.783 | 210.9 | 43 | -27 | 2 | 30 | 12 | 48 | 0 |
| 4 | 515 | 32.764 | 211.3 | 44 | 7 | 2 | 30 | 12 | 48 | 0 |
| 5 | 516 | 31.912 | 211.9 | 45 | 4 | 2 | 30 | 12 | 48 | 2 |
| 6 | 517 | 31.153 | 212.2 | 46 | -4 | 1 | 30 | 12 | 48 | 0 |
| 7 | 518 | 37.363 | 211.8 | 47 | -11 | 2 | 30 | 12 | 48 | 0 |
| 8 | 156 | 30.449 | 211.9 | 48 | -12 | 1 | 30 | 12 | 88 | 0 |
| 9 | 158 | 28.505 | 211.6 | 49 | 4 | 1 | 30 | 12 | 48 | 0 |
| 10 | 160 | 26.651 | 210.9 | 50 | 0 | 1 | 30 | 12 | 48 | 0 |
| 11 | 162 | 24.936 | 207.8 | 51 | 5 | 1 | 30 | 12 | 48 | 1 |
| 12 | 163 | 24.085 | 212.0 | 52 | 18 | 1 | 30 | 12 | 48 | 0 |
| 13 | 164 | 22.839 | 211.7 | 53 | 5 | | 30 | 12 | 48 | 1 |
| 14 | 165 | 21.874 | 211.4 | 54 | -15 | 1 | 30 | 12 | 48 | 0 |
| 15 | 166 | 20.963 | 213.0 | 55 | 0 | 1 | 30 | 12 | 48 | 0 |
| 16 | 167 | 20.116 | 214.5 | 56 | 3 | 1 | 30 | 12 | 48 | 0 |
| 17 | 168 | 19.278 | 216.3 | 57 | -8 | 1 | 30 | 12 | 48 | 0 |
| 18 | 169 | 18.329 | 217.7 | 58 | 9 | 1 | 30 | 12 | 48 | 0 |
| 19 | 170 | 17.277 | 218.0 | 59 | -5 | 1 | 30 | 12 | 48 | 0 |
| 20 | 171 | 16.416 | 218.2 | 60 | -7 | 3 | 30 | 12 | 48 | 0 |

FIELD DATA TABLE

HANFORD EXPERIMENT NO 27

Shot number 5 Shot point 1001 Team 4
Shot time: 236: 9: 0: 0.014

| | Loc | Dist(km) | Azim | Unit | Chron | Chan | C1 | C2 | C3 | Tape grade |
|----|-----|----------|-------|------|-------|------|----|----|----|------------|
| 1 | 509 | 73.459 | 214.3 | 61 | 12 | | 30 | 12 | 48 | 21 |
| 2 | 519 | 38.174 | 212.1 | 62 | 9 | 2 | 30 | 12 | 48 | 0 |
| 3 | 520 | 38.507 | 212.1 | 63 | 11 | 2 | 30 | 12 | 48 | 0 |
| 4 | 151 | 38.822 | 212.4 | 64 | 14 | | 30 | 12 | 48 | 1 |
| 5 | 150 | 39.527 | 212.2 | 65 | -21 | 2 | 30 | 12 | 48 | 0/12 |
| 6 | 149 | 40.526 | 212.1 | 66 | -2 | | 30 | 12 | 48 | 21 |
| 7 | 148 | 41.481 | 212.5 | 67 | -- | | 30 | 12 | 48 | 21/17 |
| 8 | 147 | 42.313 | 212.9 | 68 | -14 | 2 | 30 | 12 | 48 | 0/12 |
| 9 | 146 | 43.389 | 212.9 | 69 | -5 | 2 | 30 | 12 | 48 | 0/12 |
| 10 | 145 | 44.297 | 213.1 | 70 | 19 | 2 | 30 | 12 | 48 | 0/12 |
| 11 | 144 | 45.240 | 213.3 | 71 | -14 | 3 | 30 | 12 | 48 | 0/12 |
| 12 | 143 | 46.191 | 213.5 | 72 | 12 | 2 | 30 | 12 | 48 | 0/12 |
| 13 | 142 | 47.137 | 213.9 | 73 | -7 | 2 | 30 | 12 | 48 | 0/12 |
| 14 | 141 | 48.058 | 213.8 | 74 | 1 | 2 | 30 | 12 | 48 | 0/12 |
| 15 | 140 | 49.028 | 213.4 | 75 | 13 | 2 | 30 | 12 | 48 | 0/12 |
| 16 | 139 | 49.992 | 213.5 | 76 | 28 | 2 | 30 | 12 | 48 | 0/12 |
| 17 | 138 | 50.923 | 213.7 | 77 | 0 | 2 | 30 | 12 | 48 | 0/12 |
| 18 | 137 | 52.074 | 214.1 | 78 | 3 | 2 | 30 | 12 | 48 | 0/12 |
| 19 | 136 | 52.921 | 214.4 | 79 | 31 | | 30 | 12 | 48 | 17 |
| 20 | 135 | 53.759 | 213.5 | 80 | 14 | 2 | 30 | 12 | 48 | 0/12 |

FIELD DATA TABLE

HANFORD EXPERIMENT NO 27

Shot number 5 Shot point 1001 Team 5

Shot time: 236: 9: 0: 0.014

| | Loc | Dist(km) | Azim | Unit | Chron | Chan | C1 | C2 | C3 | Tape grade |
|----|-----|----------|------|------|-------|------|----|----|----|------------|
| 1 | 214 | 33.930 | 31.4 | 81 | -16 | 1 | 30 | 12 | 48 | 0 |
| 2 | 215 | 35.120 | 31.0 | 82 | -11 | 1 | 30 | 12 | 48 | 10 |
| 3 | 216 | 36.205 | 32.7 | 83 | 16 | 1 | 30 | 12 | 48 | 0 |
| 4 | 217 | 37.847 | 34.2 | 84 | 12 | | 30 | 12 | 48 | 1 |
| 5 | 218 | 39.320 | 32.9 | 85 | -32 | 1 | 30 | 12 | 48 | 0 |
| 6 | 219 | 40.518 | 33.1 | 86 | 0 | | 30 | 12 | 48 | 1 |
| 7 | 220 | 41.773 | 30.7 | 87 | 2 | 2 | 30 | 12 | 48 | 0 |
| 8 | 222 | 44.846 | 33.2 | 88 | 21 | 2 | 30 | 12 | 48 | 0 |
| 9 | 221 | 43.474 | 31.2 | 89 | 11 | 1 | 30 | 12 | 48 | 0 |
| 10 | 223 | 46.009 | 32.3 | 90 | 12 | 2 | 30 | 12 | 48 | 0 |
| 11 | 224 | 47.717 | 33.8 | 91 | 5 | 2 | 30 | 12 | 48 | 0 |
| 12 | 225 | 48.548 | 33.1 | 92 | 6 | 2 | 30 | 12 | 48 | 0 |
| 13 | 226 | 49.606 | 32.1 | 93 | 2 | | 30 | 12 | 48 | 1 |
| 14 | 227 | 50.979 | 31.4 | 94 | 19 | 2 | 30 | 12 | 48 | 0 |
| 15 | 228 | 52.697 | 32.0 | 95 | 25 | 2 | 30 | 12 | 48 | 0 |
| 16 | 229 | 54.025 | 32.5 | 96 | -24 | | 30 | 12 | 48 | 1 |
| 17 | 230 | 55.678 | 33.5 | 97 | 8 | 2 | 30 | 12 | 48 | 0 |
| 18 | 231 | 56.718 | 34.3 | 98 | 5 | | 30 | 12 | 48 | 1 |
| 19 | 232 | 57.982 | 33.1 | 99 | 15 | 2 | 30 | 12 | 48 | 0 |
| 20 | 233 | 59.372 | 32.8 | 100 | 11 | 2 | 30 | 12 | 48 | 0 |

FIELD DATA TABLE

HANFORD EXPERIMENT NO 27

Shot number 5 Shot point 1001 Team 6

Shot time: 236: 9: 0: 0.014

| | Loc | Dist(km) | Azim | Unit | Chron | Chan | C1 | C2 | C3 | Tape grade |
|----|-----|----------|-------|------|-------|------|----|----|----|------------|
| 1 | 172 | 15.445 | 219.3 | 101 | 17 | 1 | 30 | 12 | 48 | 0 |
| 2 | 173 | 14.493 | 221.6 | 102 | 8 | 1 | 30 | 12 | 48 | 0 |
| 3 | 174 | 13.530 | 220.2 | 103 | 15 | 3 | 30 | 12 | 48 | 0 |
| 4 | 175 | 12.410 | 216.7 | 104 | -5 | 1 | 30 | 12 | 48 | 0 |
| 5 | 176 | 11.485 | 217.7 | 105 | 15 | 1 | 30 | 12 | 48 | 0 |
| 6 | 177 | 10.398 | 211.6 | 106 | -- | | 30 | 12 | 48 | 1 |
| 7 | 178 | 9.380 | 206.1 | 107 | -19 | 1 | 30 | 12 | 48 | 0 |
| 8 | 179 | 8.207 | 198.2 | 108 | -6 | 3 | 30 | 12 | 48 | 0 |
| 9 | 180 | 7.108 | 201.3 | 109 | 1 | 3 | 30 | 12 | 48 | 0 |
| 10 | 181 | 6.176 | 204.1 | 110 | 20 | 3 | 30 | 12 | 48 | 0 |
| 11 | 182 | 5.230 | 203.5 | 111 | 6 | 3 | 30 | 12 | 48 | 0 |
| 12 | 183 | 4.747 | 196.2 | 112 | -24 | 3 | 30 | 12 | 48 | 0 |
| 13 | 184 | 3.858 | 207.0 | 113 | -10 | 3 | 30 | 12 | 48 | 0 |
| 14 | 185 | 3.013 | 220.5 | 114 | -3 | 1 | 30 | 12 | 48 | 0 |
| 15 | 186 | 1.647 | 199.0 | 115 | 2 | 3 | 30 | 12 | 68 | 0 |
| 16 | 187 | 1.086 | 170.2 | 116 | 37 | 3 | 30 | 12 | 68 | 0 |
| 17 | 188 | 0.408 | 215.2 | 117 | -135 | 3 | 30 | 12 | 88 | 0 |
| 18 | 189 | 0.013 | 158.6 | 118 | -12 | 3 | 30 | 12 | 88 | 0 |
| 19 | 190 | 1.495 | 8.0 | 119 | 1 | 3 | 30 | 12 | 88 | 0 |
| 20 | 191 | 2.862 | 42.6 | 120 | 1 | 3 | 30 | 12 | 68 | 0 |

FIELD DATA TABLE

HANFORD EXPERIMENT NO 27

Shot number 6 Shot point1002 Team 1

Shot time: 236: 9: 2: 0.012

| | Loc | Dist(km) | Azim | Unit | Chron | Chan | C1 | C2 | C3 | Tape grade |
|----|-----|----------|-------|------|-------|------|----|----|----|------------|
| 1 | 134 | 16.062 | 218.4 | 1 | 12 | 3 | 30 | 12 | 48 | 12 |
| 2 | 133 | 17.035 | 219.0 | 2 | 6 | 3 | 30 | 12 | 48 | 12 |
| 3 | 510 | 17.903 | 217.2 | 3 | 9 | 3 | 30 | 12 | 48 | 12 |
| 4 | 511 | 19.100 | 216.3 | 4 | -86 | 3 | 30 | 12 | 48 | 12 |
| 5 | 132 | 19.946 | 219.2 | 5 | 12 | 3 | 30 | 12 | 48 | 12 |
| 6 | 131 | 20.677 | 218.5 | 6 | -10 | | 30 | 12 | 48 | 1 |
| 7 | 130 | 22.405 | 218.7 | 7 | -21 | 3 | 30 | 12 | 48 | 12 |
| 8 | 129 | 23.206 | 219.2 | 8 | -37 | | 30 | 12 | 48 | 1 |
| 9 | 128 | 23.873 | 218.0 | 9 | 44 | 3 | 30 | 12 | 48 | 12 |
| 10 | 127 | 24.446 | 216.9 | 10 | -25 | 1 | 30 | 12 | 48 | 12 |
| 11 | 126 | 25.516 | 218.3 | 11 | 5 | 1 | 30 | 12 | 48 | 12 |
| 12 | 125 | 26.378 | 219.2 | 12 | -24 | 1 | 30 | 12 | 48 | 0 |
| 13 | 124 | 27.724 | 219.8 | 13 | 19 | 1 | 30 | 12 | 48 | 0 |
| 14 | 123 | 28.638 | 219.8 | 14 | 25 | 1 | 30 | 12 | 48 | 0 |
| 15 | 122 | 29.646 | 219.8 | 15 | -83 | 1 | 30 | 12 | 48 | 0 |
| 16 | 121 | 30.626 | 219.5 | 16 | 3 | 1 | 30 | 12 | 48 | 0 |
| 17 | 120 | 31.438 | 217.3 | 17 | 21 | | 30 | 12 | 48 | 1 |
| 18 | 119 | 32.531 | 217.3 | 18 | -2 | 1 | 30 | 12 | 48 | 0 |
| 19 | 117 | 34.417 | 217.0 | 19 | 46 | 1 | 30 | 12 | 48 | 0 |
| 20 | 118 | 33.488 | 217.9 | 20 | -8 | 1 | 30 | 12 | 48 | 0 |

FIELD DATA TABLE

HANFORD EXPERIMENT NO 27

Shot number 6 Shot point1002 Team 2

Shot time: 236: 9: 2: 0.012

| | Loc | Dist(km) | Azim | Unit | Chron | Chan | C1 | C2 | C3 | Tape grade |
|----|-----|----------|------|------|-------|------|----|----|----|------------|
| 1 | 508 | 42.727 | 33.7 | 21 | 2 | 1 | 30 | 12 | 48 | 0 |
| 2 | 193 | 44.070 | 31.7 | 22 | 11 | 1 | 30 | 12 | 48 | 12 |
| 3 | 194 | 45.284 | 32.2 | 23 | 17 | 3 | 30 | 12 | 48 | 12 |
| 4 | 195 | 46.059 | 31.8 | 24 | -2 | 1 | 30 | 12 | 48 | 0 |
| 5 | 196 | 48.176 | 32.2 | 25 | -3 | 1 | 30 | 12 | 48 | 0 |
| 6 | 197 | 49.365 | 31.9 | 26 | 6 | 1 | 30 | 12 | 48 | 0 |
| 7 | 198 | 50.858 | 32.3 | 27 | 9 | 1 | 30 | 12 | 48 | 0 |
| 8 | 199 | 52.123 | 32.4 | 28 | -3 | 1 | 30 | 12 | 48 | 0 |
| 9 | 200 | 53.618 | 32.7 | 29 | 10 | 2 | 30 | 12 | 48 | 0 |
| 10 | 201 | 54.894 | 31.9 | 30 | 5 | 1 | 30 | 12 | 48 | 0 |
| 11 | 202 | 56.159 | 32.0 | 31 | 8 | 1 | 30 | 12 | 48 | 0 |
| 12 | 203 | 57.387 | 32.2 | 32 | 4 | 1 | 30 | 12 | 48 | 0 |
| 13 | 204 | 58.848 | 33.2 | 33 | 34 | 1 | 30 | 12 | 48 | 0 |
| 14 | 205 | 60.187 | 32.4 | 34 | 8 | 2 | 30 | 12 | 48 | 12 |
| 15 | 206 | 61.538 | 32.1 | 35 | -29 | 1 | 30 | 12 | 48 | 0 |
| 16 | 207 | 64.135 | 33.1 | 36 | -4 | 2 | 30 | 12 | 48 | 0 |
| 17 | 208 | 63.275 | 32.3 | 37 | -192 | 2 | 30 | 12 | 48 | 12 |
| 18 | 209 | 65.490 | 32.3 | 38 | 3 | | 30 | 12 | 48 | 24 |
| 19 | 210 | 67.153 | 31.9 | 39 | 6 | 1 | 30 | 12 | 48 | 12 |
| 20 | 211 | 68.355 | 31.3 | 40 | 6 | 1 | 30 | 12 | 48 | 12 |

FIELD DATA TABLE

HANFORD EXPERIMENT NO 27

Shot number 6 Shot point1002 Team 3

Shot time: 236: 9: 2: 0.012

| | Loc | Dist(km) | Azim | Unit | Chron | Chan | C1 | C2 | C3 | Tape grade |
|----|-----|----------|------|------|-------|------|----|----|----|------------|
| 1 | 512 | 2.741 | 46.3 | 41 | -16 | 3 | 30 | 12 | 48 | 0 |
| 2 | 513 | 4.025 | 46.3 | 42 | 0 | 3 | 30 | 12 | 48 | 0 |
| 3 | 514 | 4.971 | 41.1 | 43 | -27 | 3 | 30 | 12 | 48 | 0 |
| 4 | 515 | 5.950 | 37.3 | 44 | 7 | 3 | 30 | 12 | 48 | 0 |
| 5 | 516 | 6.777 | 33.9 | 45 | 4 | 3 | 30 | 12 | 48 | 0 |
| 6 | 517 | 7.533 | 32.5 | 46 | -4 | 3 | 30 | 12 | 48 | 0 |
| 7 | 518 | 1.354 | 44.3 | 47 | -11 | 3 | 30 | 12 | 48 | 0 |
| 8 | 156 | 8.238 | 33.3 | 48 | -12 | 1 | 30 | 12 | 88 | 0 |
| 9 | 158 | 10.187 | 33.9 | 49 | 4 | 3 | 30 | 12 | 48 | 0 |
| 10 | 160 | 12.057 | 35.1 | 50 | 0 | 3 | 30 | 12 | 48 | 0 |
| 11 | 162 | 13.961 | 40.2 | 51 | 5 | 3 | 30 | 12 | 48 | 0 |
| 12 | 163 | 14.602 | 32.6 | 52 | 18 | 3 | 30 | 12 | 48 | 0 |
| 13 | 164 | 15.849 | 33.0 | 53 | 5 | 3 | 30 | 12 | 48 | 1 |
| 14 | 165 | 16.817 | 33.3 | 54 | -15 | 3 | 30 | 12 | 48 | 0 |
| 15 | 166 | 17.726 | 31.4 | 55 | 0 | 1 | 30 | 12 | 48 | 0 |
| 16 | 167 | 18.602 | 29.7 | 56 | 3 | 1 | 30 | 12 | 48 | 0 |
| 17 | 168 | 19.500 | 28.2 | 57 | -8 | 1 | 30 | 12 | 48 | 0 |
| 18 | 169 | 20.509 | 27.4 | 58 | 9 | 3 | 30 | 12 | 48 | 0 |
| 19 | 170 | 21.566 | 27.5 | 59 | -5 | 3 | 30 | 12 | 48 | 0 |
| 20 | 171 | 22.424 | 27.8 | 60 | -7 | 3 | 30 | 12 | 48 | 0 |

FIELD DATA TABLE

HANFORD EXPERIMENT NO 27

Shot number 6 Shot point1002 Team 4

Shot time: 236: 9: 2: 0.012

| | Loc | Dist(km) | Azim | Unit | Chron | Chan | C1 | C2 | C3 | Tape grade |
|----|-----|----------|-------|------|-------|------|----|----|----|------------|
| 1 | 509 | 34.834 | 216.7 | 61 | 12 | 1 | 30 | 12 | 48 | 0 |
| 2 | 519 | 0.518 | 41.6 | 62 | 9 | 1 | 30 | 12 | 48 | 0 |
| 3 | 520 | 0.210 | 63.4 | 63 | 11 | 1 | 30 | 12 | 48 | 0/12 |
| 4 | 151 | 0.168 | 248.3 | 64 | 14 | | 30 | 12 | 48 | 1 |
| 5 | 150 | 0.841 | 211.4 | 65 | -21 | 1 | 30 | 12 | 48 | 0 |
| 6 | 149 | 1.844 | 208.9 | 66 | -2 | | 30 | 12 | 48 | 21 |
| 7 | 148 | 2.803 | 216.6 | 67 | -- | | 30 | 12 | 48 | 1 |
| 8 | 147 | 3.662 | 220.4 | 68 | -14 | 1 | 30 | 12 | 48 | 0 |
| 9 | 146 | 4.729 | 218.5 | 69 | -5 | 1 | 30 | 12 | 48 | 0 |
| 10 | 145 | 5.650 | 219.3 | 70 | 19 | 1 | 30 | 12 | 48 | 0 |
| 11 | 144 | 6.605 | 219.8 | 71 | -14 | 1 | 30 | 12 | 48 | 0 |
| 12 | 143 | 7.568 | 220.2 | 72 | 12 | 1 | 30 | 12 | 48 | 0 |
| 13 | 142 | 8.541 | 221.3 | 73 | -7 | 1 | 30 | 12 | 48 | 0 |
| 14 | 141 | 9.451 | 220.4 | 74 | 1 | 1 | 30 | 12 | 48 | 0 |
| 15 | 140 | 10.386 | 218.0 | 75 | 13 | 1 | 30 | 12 | 48 | 0 |
| 16 | 139 | 11.348 | 217.7 | 76 | 29 | 1 | 30 | 12 | 48 | 0 |
| 17 | 138 | 12.291 | 218.2 | 77 | 0 | 1 | 30 | 12 | 48 | 0 |
| 18 | 137 | 13.471 | 219.4 | 78 | 3 | 1 | 30 | 12 | 48 | 0 |
| 19 | 136 | 14.347 | 220.4 | 79 | 31 | 1 | 30 | 12 | 48 | 0 |
| 20 | 135 | 15.109 | 216.7 | 80 | 14 | 1 | 30 | 12 | 48 | 0 |

FIELD DATA TABLE

HANFORD EXPERIMENT NO 27

Shot number 6 Shot point 1002 Team 5
Shot time: 236: 9: 2: 0.012

| | Loc | Dist(km) | Azim | Unit | Chron | Chan | C1 | C2 | C3 | Tape grade |
|----|-----|----------|------|------|-------|------|----|----|----|------------|
| 1 | 214 | 72.612 | 31.8 | 81 | -16 | 1 | 30 | 12 | 48 | 0 |
| 2 | 215 | 73.800 | 31.6 | 82 | -11 | 1 | 30 | 12 | 48 | 10 |
| 3 | 216 | 74.891 | 32.4 | 83 | 16 | 2 | 30 | 12 | 48 | 0 |
| 4 | 217 | 76.524 | 33.2 | 84 | 12 | 1 | 30 | 12 | 48 | 0 |
| 5 | 218 | 78.006 | 32.5 | 85 | -32 | 1 | 30 | 12 | 48 | 0 |
| 6 | 219 | 79.203 | 32.7 | 86 | 0 | | 30 | 12 | 48 | 1 |
| 7 | 220 | 80.395 | 31.4 | 87 | 2 | | 30 | 12 | 48 | 1 |
| 8 | 222 | 83.467 | 32.8 | 88 | 21 | 2 | 30 | 12 | 48 | 0 |
| 9 | 221 | 82.098 | 31.7 | 89 | 11 | 1 | 30 | 12 | 48 | 0 |
| 10 | 223 | 84.633 | 32.3 | 90 | 12 | 1 | 30 | 12 | 48 | 0 |
| 11 | 224 | 86.331 | 33.1 | 91 | 5 | 2 | 30 | 12 | 48 | 0 |
| 12 | 225 | 87.167 | 32.7 | 92 | 6 | 1 | 30 | 12 | 48 | 0 |
| 13 | 226 | 88.228 | 32.1 | 93 | 2 | | 30 | 12 | 48 | 1 |
| 14 | 227 | 89.599 | 31.7 | 94 | 19 | 2 | 30 | 12 | 48 | 0 |
| 15 | 228 | 91.317 | 32.1 | 95 | 25 | 2 | 30 | 12 | 48 | 0 |
| 16 | 229 | 92.643 | 32.4 | 96 | -24 | | 30 | 12 | 48 | 1 |
| 17 | 230 | 94.288 | 33.0 | 97 | 8 | 2 | 30 | 12 | 48 | 0 |
| 18 | 231 | 95.317 | 33.5 | 98 | 5 | 1 | 30 | 12 | 48 | 0 |
| 19 | 232 | 96.593 | 32.8 | 99 | 15 | 2 | 30 | 12 | 48 | 0 |
| 20 | 233 | 97.984 | 32.6 | 100 | 11 | 2 | 30 | 12 | 48 | 0 |

FIELD DATA TABLE

HANFORD EXPERIMENT NO 27

Shot number 6 Shot point 1002 Team 6
Shot time: 236: 9: 2: 0.012

| | Loc | Dist(km) | Azim | Unit | Chron | Chan | C1 | C2 | C3 | Tape grade |
|----|-----|----------|------|------|-------|------|----|----|----|------------|
| 1 | 172 | 23.433 | 27.5 | 101 | 17 | 1 | 30 | 12 | 48 | 0 |
| 2 | 173 | 24.498 | 26.7 | 102 | 8 | 1 | 30 | 12 | 48 | 0 |
| 3 | 174 | 25.352 | 28.0 | 103 | 15 | 3 | 30 | 12 | 48 | 0 |
| 4 | 175 | 26.329 | 30.1 | 104 | -5 | 1 | 30 | 12 | 48 | 0 |
| 5 | 176 | 27.273 | 29.9 | 105 | 15 | 1 | 30 | 12 | 48 | 0 |
| 6 | 177 | 28.288 | 32.5 | 106 | -- | | 30 | 12 | 48 | 1 |
| 7 | 178 | 29.377 | 34.2 | 107 | -20 | 1 | 30 | 12 | 48 | 0 |
| 8 | 179 | 30.793 | 35.9 | 108 | -6 | 1 | 30 | 12 | 48 | 0 |
| 9 | 180 | 31.738 | 34.7 | 109 | 1 | 1 | 30 | 12 | 48 | 0 |
| 10 | 181 | 32.585 | 33.8 | 110 | 20 | 1 | 30 | 12 | 48 | 0 |
| 11 | 182 | 33.527 | 33.6 | 111 | 6 | 1 | 30 | 12 | 48 | 0 |
| 12 | 183 | 34.150 | 34.4 | 112 | -24 | 1 | 30 | 12 | 48 | 0 |
| 13 | 184 | 34.846 | 32.8 | 113 | -10 | 1 | 30 | 12 | 48 | 0 |
| 14 | 185 | 35.706 | 31.5 | 114 | -3 | 1 | 30 | 12 | 48 | 0 |
| 15 | 186 | 37.084 | 32.8 | 115 | 2 | 1 | 30 | 12 | 68 | 0 |
| 16 | 187 | 37.887 | 33.3 | 116 | 37 | 1 | 30 | 12 | 68 | 0 |
| 17 | 188 | 38.278 | 32.2 | 117 | -135 | 1 | 30 | 12 | 88 | 0 |
| 18 | 189 | 38.678 | 32.2 | 118 | -12 | 1 | 30 | 12 | 88 | 0 |
| 19 | 190 | 40.053 | 31.3 | 119 | 1 | 1 | 30 | 12 | 88 | 0 |
| 20 | 191 | 41.505 | 32.9 | 120 | 1 | 1 | 30 | 12 | 68 | 0 |

FIELD DATA TABLE

HANFORD EXPERIMENT NO 27

Shot number 7 Shot point 1003 Team 1

Shot time: 236: 9: 4: 0.015

| | Loc | Dist(km) | Azim | Unit | Chron | Chan | C1 | C2 | C3 | Tape grade |
|----|-----|----------|------|------|-------|------|----|----|----|------------|
| 1 | 134 | 30.280 | 37.9 | 1 | 12 | 2 | 30 | 12 | 48 | 12 |
| 2 | 133 | 29.310 | 37.5 | 2 | 6 | 1 | 30 | 12 | 48 | 12 |
| 3 | 510 | 28.443 | 38.6 | 3 | 9 | 1 | 30 | 12 | 48 | 12 |
| 4 | 511 | 27.259 | 39.3 | 4 | -86 | 1 | 30 | 12 | 48 | 12 |
| 5 | 132 | 26.403 | 37.1 | 5 | 12 | 1 | 30 | 12 | 48 | 12 |
| 6 | 131 | 25.666 | 37.7 | 6 | -10 | | 30 | 12 | 48 | 1 |
| 7 | 130 | 23.939 | 37.5 | 7 | -21 | 1 | 30 | 12 | 48 | 12 |
| 8 | 129 | 23.144 | 37.0 | 8 | -37 | 2 | 30 | 12 | 48 | 31 |
| 9 | 128 | 22.469 | 38.1 | 9 | 44 | 1 | 30 | 12 | 48 | 0 |
| 10 | 127 | 21.909 | 39.4 | 10 | -25 | 1 | 30 | 12 | 48 | 0 |
| 11 | 126 | 20.826 | 37.8 | 11 | 5 | 1 | 30 | 12 | 48 | 0 |
| 12 | 125 | 19.975 | 36.5 | 12 | -24 | 1 | 30 | 12 | 48 | 0 |
| 13 | 124 | 18.649 | 35.5 | 13 | 19 | 1 | 30 | 12 | 48 | 0 |
| 14 | 123 | 17.738 | 35.2 | 14 | 25 | 1 | 30 | 12 | 48 | 0 |
| 15 | 122 | 16.734 | 34.9 | 15 | -83 | 1 | 30 | 12 | 48 | 0 |
| 16 | 121 | 15.743 | 35.3 | 16 | 3 | 1 | 30 | 12 | 48 | 0 |
| 17 | 120 | 14.915 | 39.7 | 17 | 21 | | 30 | 12 | 48 | 29 |
| 18 | 119 | 13.823 | 39.9 | 18 | -2 | 1 | 30 | 12 | 48 | 0 |
| 19 | 117 | 11.948 | 41.0 | 19 | 46 | 3 | 30 | 12 | 48 | 0 |
| 20 | 118 | 12.856 | 38.5 | 20 | -8 | 1 | 30 | 12 | 48 | 0 |

FIELD DATA TABLE

HANFORD EXPERIMENT NO 27

Shot number 7 Shot point 1003 Team 2

Shot time: 236: 9: 4: 0.015

| | Loc | Dist(km) | Azim | Unit | Chron | Chan | C1 | C2 | C3 | Tape grade |
|----|-----|----------|------|------|-------|------|----|----|----|------------|
| 1 | 508 | 88.920 | 35.9 | 21 | 2 | 2 | 30 | 12 | 48 | 0 |
| 2 | 193 | 90.188 | 34.9 | 22 | 11 | 2 | 30 | 12 | 48 | 12 |
| 3 | 194 | 91.420 | 35.1 | 23 | 17 | 1 | 30 | 12 | 48 | 12 |
| 4 | 195 | 92.176 | 34.9 | 24 | -2 | 1 | 30 | 12 | 48 | 12 |
| 5 | 196 | 94.307 | 35.1 | 25 | -3 | 2 | 30 | 12 | 48 | 12 |
| 6 | 197 | 95.481 | 34.9 | 26 | 6 | 2 | 30 | 12 | 48 | 12 |
| 7 | 198 | 96.987 | 35.0 | 27 | 9 | 2 | 30 | 12 | 48 | 12 |
| 8 | 199 | 98.255 | 35.1 | 28 | -3 | 2 | 30 | 12 | 48 | 12 |
| 9 | 200 | 99.759 | 35.2 | 29 | 10 | 2 | 30 | 12 | 48 | 0 |
| 10 | 201 | 100.995 | 34.7 | 30 | 5 | 2 | 30 | 12 | 48 | 12 |
| 11 | 202 | 102.264 | 34.7 | 31 | 8 | 2 | 30 | 12 | 48 | 0 |
| 12 | 203 | 103.499 | 34.8 | 32 | 4 | 2 | 30 | 12 | 48 | 12 |
| 13 | 204 | 104.997 | 35.3 | 33 | 34 | 2 | 30 | 12 | 48 | 0 |
| 14 | 205 | 106.300 | 34.8 | 34 | 8 | 2 | 30 | 12 | 48 | 12 |
| 15 | 206 | 107.635 | 34.6 | 35 | -29 | 2 | 30 | 12 | 48 | 0 |
| 16 | 207 | 110.271 | 35.2 | 36 | -4 | 2 | 30 | 12 | 48 | 0 |
| 17 | 208 | 109.380 | 34.7 | 37 | -192 | 2 | 30 | 12 | 48 | 0 |
| 18 | 209 | 111.592 | 34.7 | 38 | 3 | | 30 | 12 | 48 | 24 |
| 19 | 210 | 113.233 | 34.4 | 39 | 6 | 2 | 30 | 12 | 48 | 12 |
| 20 | 211 | 114.400 | 34.0 | 40 | 6 | 2 | 30 | 12 | 48 | 0 |

FIELD DATA TABLE

HANFORD EXPERIMENT NO 27

Shot number 7 Shot point1003 Team 3

Shot time: 236: 9: 4: 0.015

| | Loc | Dist(km) | Azim | Unit | Chron | Chan | C1 | C2 | C3 | Tape grade |
|----|-----|----------|------|------|-------|------|----|----|----|------------|
| 1 | 512 | 49.057 | 38.5 | 41 | -16 | 2 | 30 | 12 | 48 | 0 |
| 2 | 513 | 50.331 | 38.7 | 42 | 0 | 2 | 30 | 12 | 48 | 0/12 |
| 3 | 514 | 51.308 | 38.3 | 43 | -27 | 2 | 30 | 12 | 48 | 0/12 |
| 4 | 515 | 52.292 | 38.0 | 44 | 7 | 2 | 30 | 12 | 48 | 0 |
| 5 | 516 | 53.103 | 37.5 | 45 | 4 | 2 | 30 | 12 | 48 | 0 |
| 6 | 517 | 53.843 | 37.3 | 46 | -4 | 2 | 30 | 12 | 48 | 0 |
| 7 | 518 | 47.689 | 38.2 | 47 | -12 | 2 | 30 | 12 | 48 | 0 |
| 8 | 156 | 54.555 | 37.3 | 48 | -12 | 2 | 30 | 12 | 88 | 0 |
| 9 | 158 | 56.506 | 37.3 | 49 | 4 | | 30 | 12 | 48 | 29 |
| 10 | 160 | 58.385 | 37.4 | 50 | 0 | 2 | 30 | 12 | 48 | 0 |
| 11 | 162 | 60.297 | 38.5 | 51 | 5 | | 30 | 12 | 48 | 29 |
| 12 | 163 | 60.891 | 36.8 | 52 | 18 | 2 | 30 | 12 | 48 | 0 |
| 13 | 164 | 62.142 | 36.8 | 53 | 5 | | 30 | 12 | 48 | 1 |
| 14 | 165 | 63.113 | 36.8 | 54 | -15 | 2 | 30 | 12 | 48 | 0/12 |
| 15 | 166 | 63.976 | 36.2 | 55 | 0 | 2 | 30 | 12 | 48 | 0 |
| 16 | 167 | 64.798 | 35.7 | 56 | 3 | 2 | 30 | 12 | 48 | 0 |
| 17 | 168 | 65.634 | 35.1 | 57 | -8 | 2 | 30 | 12 | 48 | 0 |
| 18 | 169 | 66.596 | 34.8 | 58 | 9 | 2 | 30 | 12 | 48 | 0 |
| 19 | 170 | 67.653 | 34.7 | 59 | -5 | 1 | 30 | 12 | 48 | 0/12 |
| 20 | 171 | 68.516 | 34.7 | 60 | -7 | 2 | 30 | 12 | 48 | 0 |

FIELD DATA TABLE

HANFORD EXPERIMENT NO 27

Shot number 7 Shot point1003 Team 4

Shot time: 236: 9: 4: 0.015

| | Loc | Dist(km) | Azim | Unit | Chron | Chan | C1 | C2 | C3 | Tape grade |
|----|-----|----------|------|------|-------|------|----|----|----|------------|
| 1 | 509 | 11.550 | 42.2 | 61 | 12 | 1 | 30 | 12 | 48 | 0 |
| 2 | 519 | 46.860 | 38.1 | 62 | 9 | 2 | 30 | 12 | 48 | 0 |
| 3 | 520 | 46.532 | 38.2 | 63 | 11 | 2 | 30 | 12 | 48 | 0 |
| 4 | 151 | 46.197 | 37.9 | 64 | 14 | | 30 | 12 | 48 | 1 |
| 5 | 150 | 45.507 | 38.2 | 65 | -21 | 2 | 30 | 12 | 48 | 0 |
| 6 | 149 | 44.524 | 38.4 | 66 | -2 | | 30 | 12 | 48 | 21 |
| 7 | 148 | 43.540 | 38.2 | 67 | -- | | 30 | 12 | 48 | 21 |
| 8 | 147 | 42.683 | 37.9 | 68 | -14 | 2 | 30 | 12 | 48 | 0 |
| 9 | 146 | 41.613 | 38.0 | 69 | -5 | 2 | 30 | 12 | 48 | 0 |
| 10 | 145 | 40.693 | 37.9 | 70 | 19 | 2 | 30 | 12 | 48 | 0 |
| 11 | 144 | 39.740 | 37.8 | 71 | -14 | 1 | 30 | 12 | 48 | 0 |
| 12 | 143 | 38.779 | 37.6 | 72 | 12 | 2 | 30 | 12 | 48 | 0 |
| 13 | 142 | 37.817 | 37.3 | 73 | -7 | 1 | 30 | 12 | 48 | 0 |
| 14 | 141 | 36.900 | 37.5 | 74 | 1 | 2 | 30 | 12 | 48 | 0 |
| 15 | 140 | 35.956 | 38.1 | 75 | 13 | 1 | 30 | 12 | 48 | 0 |
| 16 | 139 | 34.995 | 38.2 | 76 | 29 | 2 | 30 | 12 | 48 | 0 |
| 17 | 138 | 34.051 | 38.0 | 77 | 0 | 2 | 30 | 12 | 48 | 0 |
| 18 | 137 | 32.876 | 37.5 | 78 | 3 | 2 | 30 | 12 | 48 | 0 |
| 19 | 136 | 32.012 | 37.0 | 79 | 31 | 2 | 30 | 12 | 48 | 0 |
| 20 | 135 | 31.240 | 38.7 | 80 | 14 | 2 | 30 | 12 | 48 | 12 |

FIELD DATA TABLE

HANFORD EXPERIMENT NO 27

Shot number 7 Shot point1003 Team 5

Shot time: 236: 9: 4: 0.015

| | Loc | Dist(km) | Azim | Unit | Chron | Chan | C1 | C2 | C3 | Tape grade |
|----|-----|----------|------|------|-------|------|----|----|----|------------|
| 1 | 214 | 118.676 | 34.2 | 81 | -16 | 2 | 30 | 12 | 48 | 0 |
| 2 | 215 | 119.851 | 34.1 | 82 | -11 | 2 | 30 | 12 | 48 | 0 |
| 3 | 216 | 120.980 | 34.6 | 83 | 16 | 2 | 30 | 12 | 48 | 0 |
| 4 | 217 | 122.645 | 35.0 | 84 | 12 | 2 | 30 | 12 | 48 | 10 |
| 5 | 218 | 124.096 | 34.6 | 85 | -32 | 2 | 30 | 12 | 48 | 10 |
| 6 | 219 | 125.297 | 34.7 | 86 | 0 | | 30 | 12 | 48 | 1 |
| 7 | 220 | 126.478 | 33.8 | 87 | 2 | 2 | 30 | 12 | 48 | 0 |
| 8 | 222 | 129.622 | 34.6 | 88 | 21 | 2 | 30 | 12 | 48 | 0/ 8 |
| 9 | 221 | 128.194 | 34.0 | 89 | 11 | 2 | 30 | 12 | 48 | 0/12 |
| 10 | 223 | 130.761 | 34.3 | 90 | 12 | 2 | 30 | 12 | 48 | 0/12 |
| 11 | 224 | 132.499 | 34.8 | 91 | 5 | 2 | 30 | 12 | 48 | 0/12 |
| 12 | 225 | 133.317 | 34.6 | 92 | 6 | 2 | 30 | 12 | 48 | 12 |
| 13 | 226 | 134.344 | 34.2 | 93 | 2 | | 30 | 12 | 48 | 24 |
| 14 | 227 | 135.690 | 33.9 | 94 | 19 | 2 | 30 | 12 | 48 | 0 |
| 15 | 228 | 137.427 | 34.1 | 95 | 25 | 2 | 30 | 12 | 48 | 0/12 |
| 16 | 229 | 138.771 | 34.3 | 96 | -24 | | 30 | 12 | 48 | 1 |
| 17 | 230 | 140.445 | 34.6 | 97 | 8 | 2 | 30 | 12 | 48 | 0 |
| 18 | 231 | 141.498 | 35.0 | 98 | 5 | 2 | 30 | 12 | 48 | 0 |
| 19 | 232 | 142.737 | 34.5 | 99 | 15 | 2 | 30 | 12 | 48 | 0 |
| 20 | 233 | 144.117 | 34.3 | 100 | 11 | 2 | 30 | 12 | 48 | 0 |

FIELD DATA TABLE

HANFORD EXPERIMENT NO 27

Shot number 7 Shot point1003 Team 6

Shot time: 236: 9: 4: 0.015

| | Loc | Dist(km) | Azim | Unit | Chron | Chan | C1 | C2 | C3 | Tape grade |
|----|-----|----------|------|------|-------|------|----|----|----|------------|
| 1 | 172 | 69.505 | 34.5 | 101 | 17 | 2 | 30 | 12 | 48 | 0/12 |
| 2 | 173 | 70.514 | 34.1 | 102 | 8 | 2 | 30 | 12 | 48 | 0/12 |
| 3 | 174 | 71.432 | 34.5 | 103 | 15 | 2 | 30 | 12 | 48 | 0/12 |
| 4 | 175 | 72.502 | 35.2 | 104 | -5 | 2 | 30 | 12 | 48 | 0/12 |
| 5 | 176 | 73.434 | 35.0 | 105 | 15 | 2 | 30 | 12 | 48 | 0/12 |
| 6 | 177 | 74.541 | 35.9 | 106 | -- | | 30 | 12 | 48 | 1 |
| 7 | 178 | 75.674 | 36.5 | 107 | -20 | 2 | 30 | 12 | 48 | 0/12 |
| 8 | 179 | 77.120 | 37.2 | 108 | -6 | 2 | 30 | 12 | 48 | 0/12 |
| 9 | 180 | 78.043 | 36.7 | 109 | 1 | 2 | 30 | 12 | 48 | 0/12 |
| 10 | 181 | 78.869 | 36.3 | 110 | 20 | 2 | 30 | 12 | 48 | 0/12 |
| 11 | 182 | 79.805 | 36.2 | 111 | 6 | 2 | 30 | 12 | 48 | 0/12 |
| 12 | 183 | 80.376 | 36.5 | 112 | -24 | 2 | 30 | 12 | 48 | 0/12 |
| 13 | 184 | 81.028 | 35.8 | 113 | -10 | 2 | 30 | 12 | 48 | 0/12 |
| 14 | 185 | 81.841 | 35.2 | 114 | -3 | 2 | 30 | 12 | 48 | 0/12 |
| 15 | 186 | 83.262 | 35.7 | 115 | 2 | 2 | 30 | 12 | 68 | 0/12 |
| 16 | 187 | 84.078 | 35.9 | 116 | 37 | 2 | 30 | 12 | 68 | 0/12 |
| 17 | 188 | 84.431 | 35.4 | 117 | -135 | 2 | 30 | 12 | 88 | 0/12 |
| 18 | 189 | 84.832 | 35.4 | 118 | -12 | 2 | 30 | 12 | 88 | 0/12 |
| 19 | 190 | 86.168 | 34.9 | 119 | 1 | 2 | 30 | 12 | 88 | 0/12 |
| 20 | 191 | 87.677 | 35.6 | 120 | 1 | 2 | 30 | 12 | 68 | 0/12 |

FIELD DATA TABLE

HANFORD EXPERIMENT NO 27

Shot number 8 Shot point 1004 Team 1
Shot time: 236: 9: 6: 0.012

| | Loc | Dist(km) | Azim | Unit | Chron | Chan | C1 | C2 | C3 | Tape grade |
|----|-----|----------|------|------|-------|------|----|----|----|------------|
| 1 | 134 | 85.341 | 35.9 | 1 | 12 | 1 | 30 | 12 | 48 | 0 |
| 2 | 133 | 84.378 | 35.8 | 2 | 6 | 1 | 30 | 12 | 48 | 0 |
| 3 | 510 | 83.493 | 36.1 | 3 | 9 | 1 | 30 | 12 | 48 | 0 |
| 4 | 511 | 82.295 | 36.3 | 4 | -86 | 1 | 30 | 12 | 48 | 12 |
| 5 | 132 | 81.481 | 35.6 | 5 | 12 | 1 | 30 | 12 | 48 | 12 |
| 6 | 131 | 80.736 | 35.8 | 6 | -10 | | 30 | 12 | 48 | 1 |
| 7 | 130 | 79.078 | 35.7 | 7 | -21 | 1 | 30 | 12 | 48 | 12 |
| 8 | 129 | 78.289 | 35.5 | 8 | -37 | 2 | 30 | 12 | 48 | 26 |
| 9 | 128 | 77.601 | 35.8 | 9 | 44 | 2 | 30 | 12 | 48 | 12 |
| 10 | 127 | 77.018 | 36.1 | 10 | -25 | 2 | 30 | 12 | 48 | 12 |
| 11 | 126 | 75.963 | 35.7 | 11 | 5 | 2 | 30 | 12 | 48 | 12 |
| 12 | 125 | 75.124 | 35.3 | 12 | -24 | 2 | 30 | 12 | 48 | 0 |
| 13 | 124 | 73.802 | 35.0 | 13 | 19 | 2 | 30 | 12 | 48 | 0 |
| 14 | 123 | 72.891 | 34.9 | 14 | 25 | 2 | 30 | 12 | 48 | 0 |
| 15 | 122 | 71.887 | 34.9 | 15 | -83 | 2 | 30 | 12 | 48 | 0 |
| 16 | 121 | 70.896 | 34.9 | 16 | 3 | 2 | 30 | 12 | 48 | 0 |
| 17 | 120 | 70.029 | 35.9 | 17 | 21 | | 30 | 12 | 48 | 21 |
| 18 | 119 | 68.936 | 35.9 | 18 | -2 | 2 | 30 | 12 | 48 | 0 |
| 19 | 117 | 67.048 | 36.0 | 19 | 46 | 2 | 30 | 12 | 48 | 0 |
| 20 | 118 | 67.989 | 35.6 | 20 | -8 | 2 | 30 | 12 | 48 | 0 |

FIELD DATA TABLE

HANFORD EXPERIMENT NO 27

Shot number 8 Shot point 1004 Team 2
Shot time: 236: 9: 6: 0.012

| | Loc | Dist(km) | Azim | Unit | Chron | Chan | C1 | C2 | C3 | Tape grade |
|----|-----|----------|------|------|-------|------|----|----|----|------------|
| 1 | 508 | 144.030 | 35.5 | 21 | 2 | 2 | 30 | 12 | 48 | 0 |
| 2 | 193 | 145.300 | 34.9 | 22 | 11 | 2 | 30 | 12 | 48 | 12 |
| 3 | 194 | 146.533 | 35.0 | 23 | 17 | 1 | 30 | 12 | 48 | 12 |
| 4 | 195 | 147.288 | 34.9 | 24 | -2 | 1 | 30 | 12 | 48 | 12 |
| 5 | 196 | 149.420 | 35.0 | 25 | -3 | 2 | 30 | 12 | 48 | 12 |
| 6 | 197 | 150.593 | 34.9 | 26 | 6 | 2 | 30 | 12 | 48 | 12 |
| 7 | 198 | 152.099 | 35.0 | 27 | 9 | 1 | 30 | 12 | 48 | 12 |
| 8 | 199 | 153.367 | 35.0 | 28 | -3 | 1 | 30 | 12 | 48 | 12 |
| 9 | 200 | 154.871 | 35.1 | 29 | 10 | 2 | 30 | 12 | 48 | 0 |
| 10 | 201 | 156.106 | 34.7 | 30 | 5 | 2 | 30 | 12 | 48 | 12 |
| 11 | 202 | 157.375 | 34.8 | 31 | 8 | 2 | 30 | 12 | 48 | 0 |
| 12 | 203 | 158.610 | 34.8 | 32 | 4 | 2 | 30 | 12 | 48 | 12 |
| 13 | 204 | 160.110 | 35.2 | 33 | 34 | 2 | 30 | 12 | 48 | 12 |
| 14 | 205 | 161.412 | 34.8 | 34 | 8 | 2 | 30 | 12 | 48 | 12 |
| 15 | 206 | 162.745 | 34.7 | 35 | -29 | 2 | 30 | 12 | 48 | 12 |
| 16 | 207 | 165.384 | 35.1 | 36 | -4 | 2 | 30 | 12 | 48 | 12 |
| 17 | 208 | 164.490 | 34.8 | 37 | -193 | 2 | 30 | 12 | 48 | 12 |
| 18 | 209 | 166.702 | 34.7 | 38 | 3 | | 30 | 12 | 48 | 24 |
| 19 | 210 | 168.341 | 34.6 | 39 | 6 | 2 | 30 | 12 | 48 | 12 |
| 20 | 211 | 169.504 | 34.3 | 40 | 6 | 2 | 30 | 12 | 48 | 12 |

FIELD DATA TABLE

HANFORD EXPERIMENT NO 27

Shot number 8 Shot point1004 Team 3

Shot time: 236: 9: 6: 0.012

| | Loc | Dist(km) | Azim | Unit | Chron | Chan | C1 | C2 | C3 | Tape grade |
|----|-----|----------|------|------|-------|------|----|----|----|------------|
| 1 | 512 | 104.077 | 36.6 | 41 | -16 | 1 | 30 | 12 | 48 | 0 |
| 2 | 513 | 105.343 | 36.7 | 42 | 0 | 2 | 30 | 12 | 48 | 0 |
| 3 | 514 | 106.330 | 36.5 | 43 | -27 | 2 | 30 | 12 | 48 | 0 |
| 4 | 515 | 107.322 | 36.4 | 44 | 7 | 2 | 30 | 12 | 48 | 0 |
| 5 | 516 | 108.143 | 36.2 | 45 | 4 | 2 | 30 | 12 | 48 | 0 |
| 6 | 517 | 108.887 | 36.1 | 46 | -4 | 2 | 30 | 12 | 48 | 0 |
| 7 | 518 | 102.718 | 36.4 | 47 | -12 | 2 | 30 | 12 | 48 | 0 |
| 8 | 156 | 109.597 | 36.1 | 48 | -12 | 2 | 30 | 12 | 88 | 0 |
| 9 | 158 | 111.547 | 36.1 | 49 | 4 | 2 | 30 | 12 | 48 | 0 |
| 10 | 160 | 113.421 | 36.2 | 50 | 0 | 2 | 30 | 12 | 48 | 0 |
| 11 | 162 | 115.300 | 36.8 | 51 | 5 | 2 | 30 | 12 | 48 | 0 |
| 12 | 163 | 115.939 | 35.9 | 52 | 18 | 2 | 30 | 12 | 48 | 0 |
| 13 | 164 | 117.188 | 35.9 | 53 | 5 | | 30 | 12 | 48 | 1 |
| 14 | 165 | 118.158 | 35.9 | 54 | -15 | 1 | 30 | 12 | 48 | 0 |
| 15 | 166 | 119.029 | 35.6 | 55 | 0 | 2 | 30 | 12 | 48 | 0 |
| 16 | 167 | 119.855 | 35.3 | 56 | 3 | 2 | 30 | 12 | 48 | 0 |
| 17 | 168 | 120.693 | 35.0 | 57 | -8 | 1 | 30 | 12 | 48 | 0 |
| 18 | 169 | 121.655 | 34.8 | 58 | 9 | 2 | 30 | 12 | 48 | 0 |
| 19 | 170 | 122.711 | 34.8 | 59 | -5 | 1 | 30 | 12 | 48 | 0 |
| 20 | 171 | 123.573 | 34.8 | 60 | -7 | 1 | 30 | 12 | 48 | 0 |

FIELD DATA TABLE

HANFORD EXPERIMENT NO 27

Shot number 8 Shot point1004 Team 4

Shot time: 236: 9: 6: 0.012

| | Loc | Dist(km) | Azim | Unit | Chron | Chan | C1 | C2 | C3 | Tape grade |
|----|-----|----------|------|------|-------|------|----|----|----|------------|
| 1 | 509 | 66.629 | 36.1 | 61 | 12 | 2 | 30 | 12 | 48 | 0 |
| 2 | 519 | 101.894 | 36.3 | 62 | 9 | 2 | 30 | 12 | 48 | 12 |
| 3 | 520 | 101.565 | 36.4 | 63 | 11 | 2 | 30 | 12 | 48 | 0 |
| 4 | 151 | 101.235 | 36.3 | 64 | 14 | | 30 | 12 | 48 | 1 |
| 5 | 150 | 100.541 | 36.4 | 65 | -21 | 2 | 30 | 12 | 48 | 0 |
| 6 | 149 | 99.552 | 36.5 | 66 | -2 | | 30 | 12 | 48 | 21 |
| 7 | 148 | 98.578 | 36.3 | 67 | -- | | 30 | 12 | 48 | 21 |
| 8 | 147 | 97.729 | 36.2 | 68 | -14 | 2 | 30 | 12 | 48 | 12 |
| 9 | 146 | 96.656 | 36.2 | 69 | -5 | 1 | 30 | 12 | 48 | 0 |
| 10 | 145 | 95.740 | 36.1 | 70 | 19 | 1 | 30 | 12 | 48 | 0 |
| 11 | 144 | 94.791 | 36.1 | 71 | -14 | 1 | 30 | 12 | 48 | 12 |
| 12 | 143 | 93.834 | 36.0 | 72 | 12 | 2 | 30 | 12 | 48 | 12 |
| 13 | 142 | 92.878 | 35.9 | 73 | -7 | 1 | 30 | 12 | 48 | 12 |
| 14 | 141 | 91.960 | 35.9 | 74 | 1 | 2 | 30 | 12 | 48 | 0 |
| 15 | 140 | 91.006 | 36.1 | 75 | 13 | 2 | 30 | 12 | 48 | 7 |
| 16 | 139 | 90.044 | 36.2 | 76 | 29 | 2 | 30 | 12 | 48 | 12 |
| 17 | 138 | 89.105 | 36.1 | 77 | 0 | 2 | 30 | 12 | 48 | 12 |
| 18 | 137 | 87.940 | 35.8 | 78 | 3 | 2 | 30 | 12 | 48 | 12 |
| 19 | 136 | 87.085 | 35.6 | 79 | 31 | 2 | 30 | 12 | 48 | 12 |
| 20 | 135 | 86.283 | 36.3 | 80 | 14 | 1 | 30 | 12 | 48 | 12 |

FIELD DATA TABLE

HANFORD EXPERIMENT NO 27

Shot number 8 Shot point 1004 Team 5

Shot time: 236: 9: 6: 0.012

| | Loc | Dist(km) | Azim | Unit | Chron | Chan | C1 | C2 | C3 | Tape grade |
|----|-----|----------|------|------|-------|------|----|----|----|------------|
| 1 | 214 | 173.781 | 34.4 | 81 | -16 | 2 | 30 | 12 | 48 | 0 |
| 2 | 215 | 174.955 | 34.3 | 82 | -11 | 2 | 30 | 12 | 48 | 0/12 |
| 3 | 216 | 176.090 | 34.7 | 83 | 16 | 2 | 30 | 12 | 48 | 0 |
| 4 | 217 | 177.756 | 35.0 | 84 | 12 | 2 | 30 | 12 | 48 | 0/12 |
| 5 | 218 | 179.205 | 34.7 | 85 | -32 | 2 | 30 | 12 | 48 | 0/12 |
| 6 | 219 | 180.407 | 34.7 | 86 | 0 | | 30 | 12 | 48 | 1 |
| 7 | 220 | 181.577 | 34.2 | 87 | 2 | 2 | 30 | 12 | 48 | 0 |
| 8 | 222 | 184.731 | 34.7 | 88 | 21 | 2 | 30 | 12 | 48 | 0 |
| 9 | 221 | 183.296 | 34.2 | 89 | 11 | 1 | 30 | 12 | 48 | 0/12 |
| 10 | 223 | 185.867 | 34.5 | 90 | 12 | 2 | 30 | 12 | 48 | 0 |
| 11 | 224 | 187.610 | 34.8 | 91 | 5 | 2 | 30 | 12 | 48 | 0/12 |
| 12 | 225 | 188.426 | 34.7 | 92 | 6 | 2 | 30 | 12 | 48 | 0/12 |
| 13 | 226 | 189.448 | 34.4 | 93 | 2 | | 30 | 12 | 48 | 29 |
| 14 | 227 | 190.789 | 34.2 | 94 | 19 | 2 | 30 | 12 | 48 | 0 |
| 15 | 228 | 192.530 | 34.3 | 95 | 25 | 2 | 30 | 12 | 48 | 0 |
| 16 | 229 | 193.876 | 34.4 | 96 | -24 | | 30 | 12 | 48 | 29 |
| 17 | 230 | 195.554 | 34.7 | 97 | 8 | 2 | 30 | 12 | 48 | 0 |
| 18 | 231 | 196.609 | 34.9 | 98 | 5 | | 30 | 12 | 48 | 16 |
| 19 | 232 | 197.845 | 34.6 | 99 | 15 | 2 | 30 | 12 | 48 | 0 |
| 20 | 233 | 199.223 | 34.5 | 100 | 11 | 2 | 30 | 12 | 48 | 0 |

FIELD DATA TABLE

HANFORD EXPERIMENT NO 27

Shot number 8 Shot point 1004 Team 6

Shot time: 236: 9: 6: 0.012

| | Loc | Dist(km) | Azim | Unit | Chron | Chan | C1 | C2 | C3 | Tape grade |
|----|-----|----------|------|------|-------|------|----|----|----|------------|
| 1 | 172 | 124.561 | 34.7 | 101 | 17 | 2 | 30 | 12 | 48 | 0 |
| 2 | 173 | 125.567 | 34.4 | 102 | 8 | 2 | 30 | 12 | 48 | 12 |
| 3 | 174 | 126.486 | 34.6 | 103 | 15 | 1 | 30 | 12 | 48 | 0 |
| 4 | 175 | 127.556 | 35.0 | 104 | -5 | 2 | 30 | 12 | 48 | 0 |
| 5 | 176 | 128.487 | 35.0 | 105 | 15 | 2 | 30 | 12 | 48 | 0 |
| 6 | 177 | 129.587 | 35.5 | 106 | -- | | 30 | 12 | 48 | 1 |
| 7 | 178 | 130.711 | 35.8 | 107 | -20 | 2 | 30 | 12 | 48 | 0 |
| 8 | 179 | 132.142 | 36.2 | 108 | -6 | 2 | 30 | 12 | 48 | 12 |
| 9 | 180 | 133.075 | 35.9 | 109 | 1 | 2 | 30 | 12 | 48 | 0 |
| 10 | 181 | 133.906 | 35.7 | 110 | 20 | 2 | 30 | 12 | 48 | 12 |
| 11 | 182 | 134.843 | 35.6 | 111 | 6 | 2 | 30 | 12 | 48 | 0 |
| 12 | 183 | 135.481 | 35.8 | 112 | -24 | 2 | 30 | 12 | 48 | 0 |
| 13 | 184 | 136.139 | 35.4 | 113 | -10 | 2 | 30 | 12 | 48 | 0 |
| 14 | 185 | 136.953 | 35.1 | 114 | -3 | 2 | 30 | 12 | 48 | 12 |
| 15 | 186 | 138.373 | 35.4 | 115 | 2 | 2 | 30 | 12 | 68 | 0 |
| 16 | 187 | 139.189 | 35.5 | 116 | 37 | 2 | 30 | 12 | 68 | 0 |
| 17 | 188 | 139.543 | 35.2 | 117 | -135 | 2 | 30 | 12 | 88 | 0 |
| 18 | 189 | 139.944 | 35.2 | 118 | -12 | 2 | 30 | 12 | 88 | 12 |
| 19 | 190 | 141.280 | 34.9 | 119 | 1 | 2 | 30 | 12 | 88 | 12 |
| 20 | 191 | 142.789 | 35.3 | 120 | 1 | 2 | 30 | 12 | 68 | 12 |

APPENDIX B

Archive Data Tape Format

Archive data tapes are written SEG Y standard format (Barry et al,1975). Recording density is 1600 bpi, phase encoded (PE). In order to accomodate seismic refraction data, some minor changes have been made to the tape header fields. A complete list of the header fields is provided in the card image portion of the reel identification header, shown below:

C 1 REEL IDENTIFICATION HEADER BYTES:
 C 2 3217 -3218 sampling interval (microsecs).
 C 3 3221 -3222 number of the sample per trace.
 C 4 3225 -3226 data sample format code.
 C 5 3255 -3256 measurement system (1 = meters; 2 = feet).
 C 6
 C 7
 C 8 TRACE IDENTIFICATION HEADERS BYTES:
 C 9 1 - 4 trace sequence number within reel.
 C10 5 - 8 trace sequence number within reels.
 C11 9 - 12 station location numbers.
 C12 29 - 30 trace ID code (1 = seismic data).
 C13 37 - 40 shotpoint- receiver distance (M).
 C14 41 - 44 station elevation (M).
 C15 45 - 48 shotpoint elevations (M).
 C16 49 - 52 source depth (M).
 C17 69 - 70 scalar to be applied to all elevations.
 C18 71 - 72 scalar to be applied to all coordinates.
 C19 73 - 76 shotpoint coordinated -X.
 C20 77 - 80 shotpoint coordinates -Y.
 C21 81 - 84 receiver coordinates -X.
 C22 85 - 88 receiver coordinates -Y.
 C23 89 - 90 coordinate units (1 = meters; 2 = seconds of arc).
 C24 115 -116 number of samples in this trace.
 C25 117 -118 sample interval in microseconds for this trace.
 C26 121 -122 instrument attenuation in db.
 C27 157 -158 shot time - year.
 C28 159 -160 shot time - day of year.
 C29 161 -162 shot time - hour of the day(24 hour clock).
 C30 163 -164 shot time - minute of the hour.
 C31 165 -166 shot time - second of minute.
 C32 167 -168 time basis code (2 = GMT).
 C33 181 -182 shot time - milliseconds.
 C34 183 -184 shotpoint location number.
 C35 185 -186 recording instrument unit number.

C36 191 -192 distance weighting exponent (hundredths).
 C37 193 -194 shot sequence number (shot number).
 C38 195 -196 shot size (kg).
 C39 197 -200 shot point - station azimuth (second of arc).
 C40 201 -204 time of first point minus shot time (msec).

The data point format is "32 bit floating point", and the appropriate bytes (3225-3226) of the binary reel ID header contain a value of 1. The trace amplitudes have not been adjusted for the instrument gain, but the gain correction factor can be estimated from the instrument attenuation value(att) specified in bytes 121-122. To correct for gain, the data should be demeaned and then multiplied by:

$$\frac{(\text{att}/20)}{10}$$

The measurement system (bytes 3225-3226 of the binary reel header) is set to 1, meters.

Shot point and receiver coordinates are in seconds of arc (byte field 89-90). The coordinate scalar multiplier (bytes 71-72) is set to -100, so the coordinates (bytes 73-88) are in hundredths of a second of arc.

Bytes 157-166 and bytes 181-182 refer to the shot detonation time. The time of the first data sample is found by adding the shot detonation time to the time specified in bytes 201-204.

Since there is no weighting of amplitudes with distance for archive tapes, the distance weighting exponent (bytes 191-192) is not used.

Shot sequence number (bytes 193-194) refers to the order in which shots were fired during the field campaign.