UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

DATA REPORT FOR THE MAINE - QUEBEC CROSS-STRIKE SEISMIC-REFRACTION PROFILE

By
J. M. Murphy and J. H. Luetgert

OPEN-FILE REPORT 86-47

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
1986

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1. USGS Menlo Park, California

1986

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INTRODUCTION

In September of 1984, the U.S. Geological Survey and the Canadian Department of Energy, Mines, and Resources conducted a seismic-refraction experiment in Quebec and Maine. This experiment--part of a large interdisciplinary effort to understand the structure and tectonic evolution of the northern Appalachian orogen--was designed to sample several different tectono-stratigraphic terranes which have been identified in the northern Appalachians. A 300-km-long profile crossed the land exposure of the Appalachian orogen perpendicular to strike and parallel to seismic reflection profiles also recorded in Maine and Quebec. Four shorter profiles sampled individual terranes along strike. The strike lines were designed to constrain the velocity structure in the Chain Lakes, Gander, and Avalon terranes (as defined by Williams and Hatcher, 1983) in order to permit a 3-dimensional interpretation. With velocities constrained, the character and geometry of the terranes and their boundaries may be studied using both the refraction and reflection data.

This report is a compilation of the U.S. Geological Survey refraction data obtained from the cross-strike profile (deployments 1, 2, and 3). The data have been archived at the National Geophysical Data Center in Boulder, Colorado. Tapes are available from

U.S. Department of Commerce
National Oceanic and Atmospheric Administration
325 Broadway
Boulder, CO, 80303

Appendix D contains a description of the tape format. Interpretations of these data will be published separately.

Background

Along the boundary of the eastern North American Continent, multiple episodes of plate interaction have resulted in the juxtaposition of discrete tectono-stratigraphic terranes having differing geologic histories prior to their emplacement. Our current understanding of the tectonic evolution of the northern Appalachian mountains begins with the recognition of their origin as a Paleozoic convergent plate boundary along the eastern margin of the North American craton (Bird and Dewey, 1970). The closing of the Iapetus ocean and subsequent opening of the Atlantic ocean provides a conceptual framework within which models of tectonic evolution may be constructed. Generally, there is agreement that the Precambrian-to-Cambrian oceanic plate east of the North American craton (Iapetus) was subducted toward the southeast. There is disagreement, however, about specific models. Hall and Robinson (1982) argue that the final stage of subduction was a continent-continent collision. Others (Rast and Skehan, 1983; Hatch, 1982), propose that micro-continents were accreted between the North American and the Avalonian cratons. Still

others (Lyons et al., 1982; Boudette, 1982) propose that the closing of the Iapetus ocean involved the collision of several microplates with the North American continent.

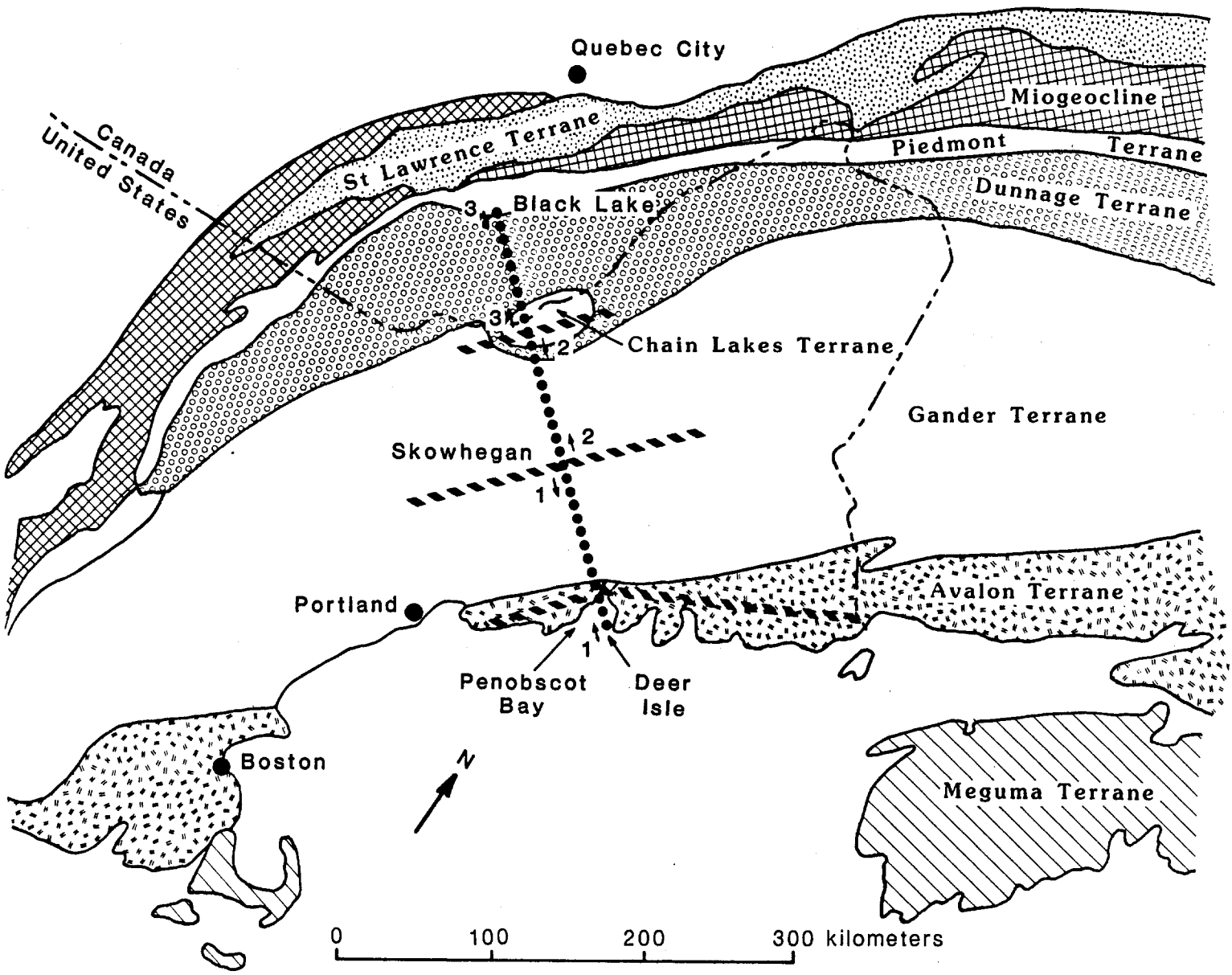
Geology

The profile presented here crosses four terranes as defined by Williams and Hatcher (1983): the Dunnage, Chain Lakes, Gander, and Avalon terranes (figure 1). The northwest section of the profile, which crosses the Dunnage terrane, extends from Black Lake on the Baie Verte-Brompton Line southeast across the St. Daniel and the St. Victor formations to the Chain Lakes massif. Ophiolites along the Baie Verte-Brompton line are bounded on the south by melange of the the St. Daniel formation. South of the St. Daniel formation lie turbidites of the St. Victor formation (Williams and St-Julien, 1982). In the central part of the Dunnage terrane, Silurian and Devonian shallow marine deposits (limestone, dolomite, sandstone, siltstone, and slate) of the Connecticut Valley-Gaspe synclinorium overlie the early Paleozoic rocks.

At the southeast edge of the Dunnage terrane lies the Chain Lakes massif. It is composed of Precambrian metavolcanic and metasedimentary rocks overlying stratified diamictite (Boudette 1982). Farther south lies the Gander terrane consisting of metamorphosed early Paleozoic clastic rocks lying on a sialic gneissic substrate; shallow Devonian granitic intrusions are common. In the area of this study, Silurian and Devonian shallow marine deposits exposed in the Merrimack synclinorium overlie the majority of the Gander terrane. The northwest limit of the terrane in this area is represented by the Boil Mountian-Jim Pond ophiolite-mafic volcanic complex (Zen, 1983). Along the southeast border of the Gander terrane lies the Avalon terrane which is composed of late Precambrian and Cambrian volcanic and sedimentary rocks overlying a gneissic basement. Compared to the Gander terrane, these rocks show little deformation.

Geophysics

This seismic-refraction study is part of a broad-based geophysical investigation of the northern Appalachian mountains that includes seismic-reflection, gravity, and magnetic studies. Seismic reflection data have been collected in three studies along a 1000-km transect extending from the North American craton to the continental slope. The northwestern 150 km of the craton-to-ocean reflection profile was obtained by the Ministere de l'Energie et des Ressources, Quebec (MERQ). Reflection sampling continued southeastward with the Quebec-Western Maine profiles collected by the U.S. Geological Survey (USGS). These profiles, parallel to the seismic-refraction profiles reported here, extend approximately 330 km from Lac Megantic, Quebec, to the Maine coast at Penobscot Bay (Stewart et al., 1985). Recently, marine reflection and refraction data have been collected in the Gulf of Maine which connect the Quebec-Western Maine profiles with USGS Marine Line 19 at the continent-ocean margin, completing the craton-to-slope transect.



USGS Instrumentation

●●●●● Cross-Strike profile
Data reported here

▬▬▬ Strike Profiles
Data not reported here

Each deployment lies between two numbers marking the profile.

1 Skowhegan to Deer Isle

2 Skowhegan to the Canadian Border

3 Black Lake to the Canadian Border

The MERQ profile has been interpreted by St-Julien et al. (1983) and Ando et al. (1983) to indicate extensive northwestward overthusting. Green et al. (1985) conclude that the Grenville basement extends beneath a southeastward-dipping detachment surface at least to the Chain Lakes massif in northwestern Maine; the boundary of the North American Craton would thus be further east than was previously assumed in the northern Appalachian mountains.

Complementary studies of gravity and magnetics have been completed in the area of this study and Bouguer gravity anomaly and magnetic anomaly maps have been compiled along the land portion of the transect (Stewart et al., 1985).

DESCRIPTION OF THE SURVEY

Along the cross-strike profile, three separate lines of 120 instruments, each 90 km long, were laid out in a continuous end-to-end pattern (figure 1). For the first line or deployment, between Skowhegan and Deer Isle, Maine, six shots were fired at SPC1, SP1, SP4, SP5, SP6, and SP7. Seven shots fired at SPC1, SP1, SP2, SP3A, SP3B, SP4, and SP7 were recorded during the second deployment, which extended from Skowhegan, Maine to the Canadian border. For the third deployment, six shots fired at SPC1, SPC2, SP1, SP3B, SP4, and SP7 were recorded in Canada between Black Lake, Quebec and the international border.

Instrument and shot point locations and elevations in Maine were determined using USGS 1:24,000 and 1:62,500 topographic maps and USGS 1:24,000 orthophoto maps. Shot point and instrument locations and elevations in Canada were determined using Canadian DEMR 1:50,000 topographic maps. All the locations (appendix A; plate 1) are estimated to be accurate to within 50 ft.

The two Canadian shot points were SPC1, a lake shot point located in an abandoned, water filled quarry near Black Lake, Quebec, at the Vimy Ridge asbestos mine and SPC2, a drill hole located near Stornoway, Quebec, 35 km northwest of the international border. The source at shot point C1 was located 90 m below the surface of the water. U.S. shot points were 20 cm X 40 m drill holes. They were filled with an ammonium nitrate explosive which was detonated by electric caps, detonating cord, and boosters. The cap signal and two time-code signals , WWVB and IRIG E, were recorded on paper strip-chart records, as described by Healy et al. (1982). The shots were fired automatically and the origin times were read from the cap break on the paper record. The reported shot times are accurate to within $\pm$ 2 milliseconds, assuming that the explosives detonated at the exact time of the cap break.

TABLE 1 : Master Shot List

Shot Number	Shot Point	Date Shot Time (Julian D,H,M,S)	Latitude Longitude (Degrees, Minutes)	Size (lbs)
1	31	SEP 25, 1984 269 4 0 0.020	46 1.3800 71 24.4080	4000
2	7	SEP 25, 1984 269 4 3 0.006	44 19.6383 68 58.7814	2000
3	5	SEP 25, 1984 269 4 5 0.010	44 35.0574 69 26.5906	2000
4	1	SEP 25, 1984 269 4 7 0.012	45 23.5364 70 45.1277	4000
5	6	SEP 25, 1984 269 5 33 0.006	44 27.7061 69 13.9435	2000
6	4	SEP 25, 1984 269 7 5 0.010	44 45.8034 69 47.7814	2000
7	31	SEP 28, 1984 272 4 0 0.020	46 1.3800 71 24.4080	3000
8	37	SEP 28, 1984 272 4 2 0.007	44 19.6369 68 58.7814	4000
9	1	SEP 28, 1984 272 4 4 0.011	45 23.5364 70 45.1277	2000
10	2	SEP 28, 1984 272 4 6 0.009	45 12.8629 70 30.7310	2000
11	33	SEP 28, 1984 272 4 8 0.010	44 53.5563 69 58.4431	2000
12	3	SEP 28, 1984 272 5 36 0.010	45 2.8915 70 12.2108	2000
13	34	SEP 28, 1984 272 5 38 0.009	44 45.8253 69 47.7814	2000
14	31	OCT 4, 1984 278 4 0 0.020	46 1.3800 71 24.4080	1650
15	7	OCT 4, 1984 278 4 3 0.009	44 19.6383 68 58.7814	4000
16	44	OCT 4, 1984 278 4 5 0.007	44 45.8487 69 47.7937	4000
17	32	OCT 4, 1984 278 5 30 0.000	45 39.0540 71 7.2900	1100
18	33	OCT 4, 1984 278 5 35 0.007	44 53.5563 69 58.4431	2000
19	1	OCT 4, 1984 278 5 37 0.012	45 23.5364 70 45.1277	2000

INSTRUMENTATION AND DATA REDUCTION

Seismic Recorders

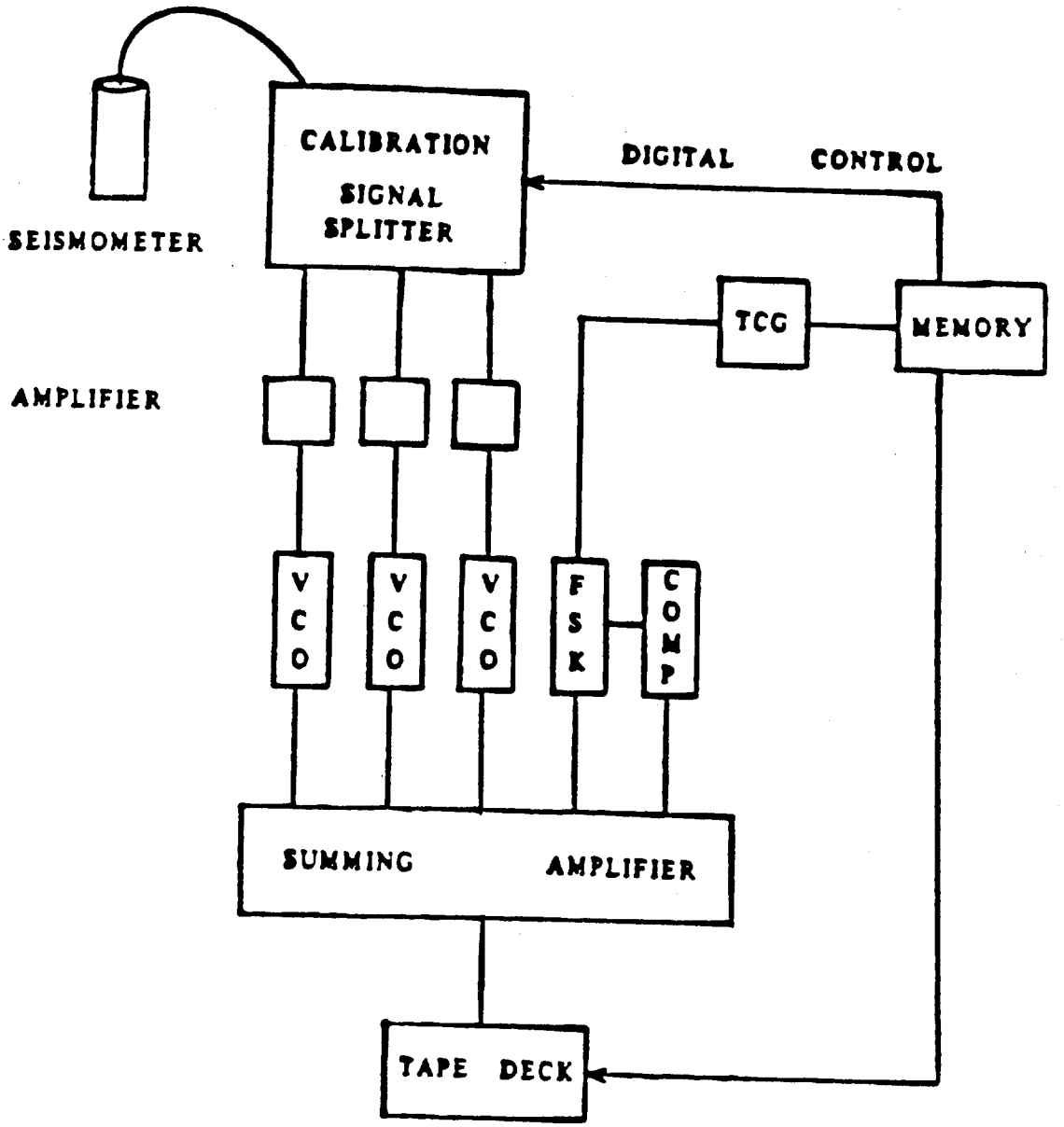
The instruments used in the seismic-refraction surveys have been described by Healy et al. (1982) (figure 2). Each instrument contains a 2-Hz vertical-component geophone. The signal from this geophone passes through three parallel amplifiers, each with an adjustable gain setting. The three seismic signals plus an internally generated time code (IRIG E) and a fixed reference frequency are recorded as a multiplexed signal on analog cassette tape. A programable memory board in each unit allows data to be recorded during ten predetermined time windows. Prior to recording the seismic data, the instrument records a geophone pulse, an amplification step, and 10-Hz sine-wave calibration signals at 1, 10, 100, 1000 mv. The displacement frequency response curve for the system peaks at about 20 Hz (figure 3).

Prior to deployment, field technicians program the memory and synchronize the clock unit of each instrument with a USGS master reference clock (Healy et al., 1982). After the shots have been recorded, the clock unit of each instrument is compared to the master reference clock and a clock drift time (in milliseconds) is recorded in the field notes. USGS master clocks, which drift approximately one millisecond per week, are periodically checked against the standard WWVB time signal.

Data reduction

Information pertaining to the operation of each instrument was entered on team data sheets (appendix C). Chronometer corrections at shot time were calculated from each clock drift time assuming a linear drift rate. Attenuation settings of every instrument have been checked against the calibration signals. Where calibration signals indicated a different dB setting than listed on the field sheets, the correct settings were calculated and entered into the computer. After checking for errors in clock drift and site locations, the analog data were digitized for 20 seconds, starting (X/8 - 1) or (X/6 - 4) seconds prior to shot time, where X is the shot point to recorder distance in km. The sampling rate for digitizing was 200 samples per second.

First-arrival times relative to shot time were determined for each shot (appendix B). The arrival times were picked from record sections plotted with a reduction velocity of 6.0 km per second, and absolute arrival times were subsequently calculated from the reduced times.



COMP = COMPENSATION
FSK = FREQUENCY SHIFT KEYING
TCG = TIME CODE GENERATOR
VCO = VOLTAGE-CONTROLLED OSCILLATOR

Figure 2. Schematic diagram of seismic recorders

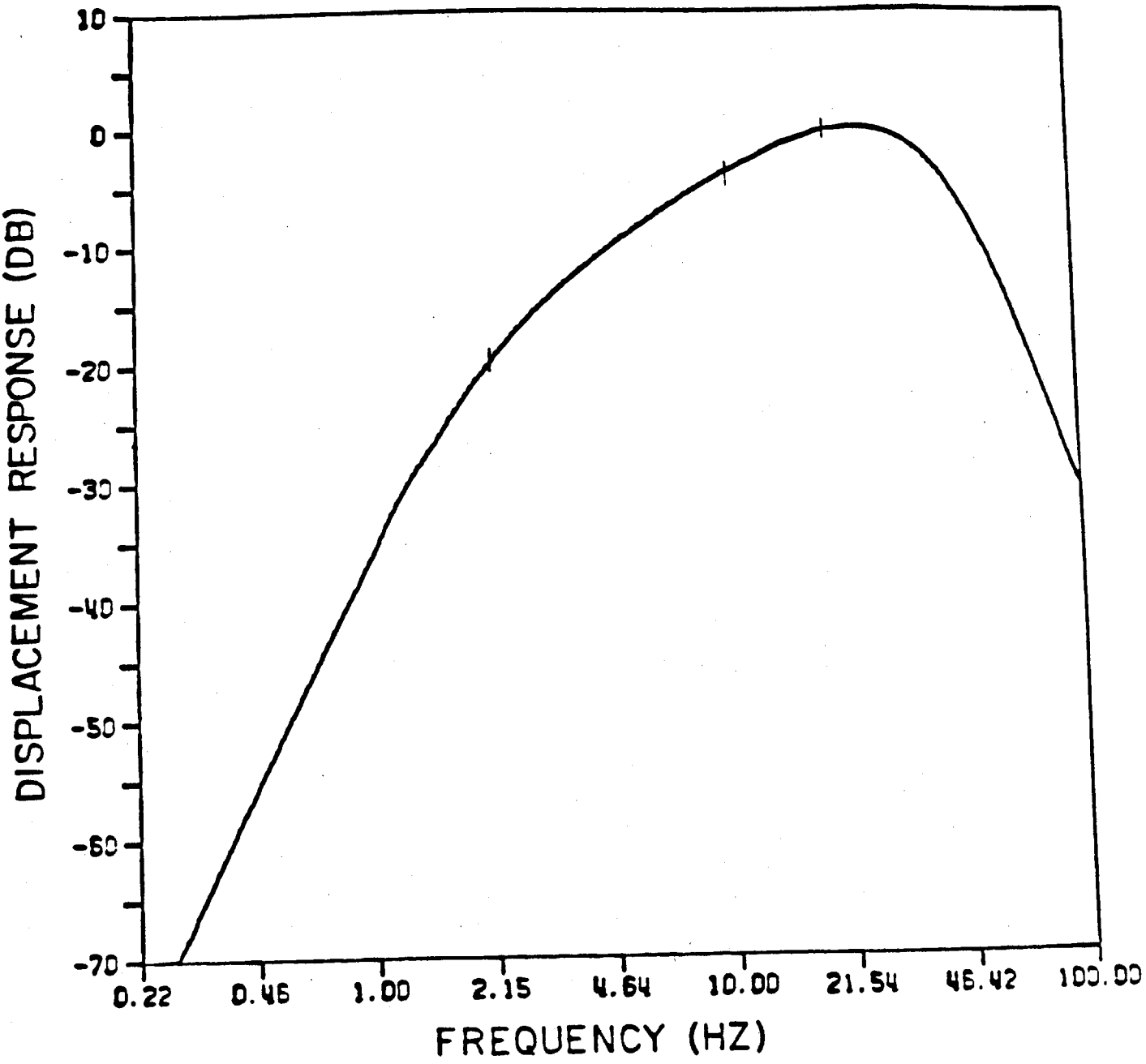


Figure 3. System response curve for cassette recording units with 2 Hz seismometers

RECORD SECTIONS

For each shot a normalized and a true-amplitude record section are presented (plates 2-15). Since shots from shot points C1, 1, 4, and 7 were recorded during all three deployments, records from deployments 1, 2, and 3 are concatenated to form a single record section (plates 2-9). These concatenated record sections, however, are too long to print as a single plot and are split with the data duplicated between shot points 3A and 3B. Records from shot point 3B recorded during deployments 2 and 3 are concatenated and displayed as a single plot (plate 10). All other shots were recorded during a single deployment (plates 11-15). A small number of traces were bandpass filtered with a 4-pole Butterworth filter. These traces and the frequency band are labeled on the record sections.

On the true-amplitude record sections, the width of each trace is proportional to the actual ground motion. Adjustments were made for instrument gain, distance from the shot point, and shot energy. Thus, the true amplitude A(t) is computed from the observed amplitude $A_o(t)$ by

$$A(t) = A_o(t) f_a f_d f_s \quad ,$$

where f_a, f_d, and f_s are multiplicative factors for the instrument amplifier gain, distance from the shot, and shot energy, respectively. The factor for instrument amplification is,

$$f_a = 10^{(A/20)} \quad ,$$

where A is the attenuation setting, in decibels, for each trace. The attenuation setting for each instrument is listed above the trace on the true-amplitude record sections. The formula used to determine the distance factor is,

$$f_d = \left(\frac{X}{100}\right)^{1.5} \quad ,$$

where X is the shotpoint-station distance, in km . The shot energy factor, f_s, is a scalar multiplier that is applied to all traces for a particular shot to provide the best display of energy on a true-amplitude record section (table 3). The energy factor is inversely proportional to the shot signal strength.

In order to make the record sections (plates 2-15) easier to analyze, a few traces were deleted in areas where stations were close together or where a noisy trace obscured surrounding data. Where a seismogram has been omitted, the reason is indicated by a tape grade code number which is listed on the team data sheets.

TABLE 3

SCALING FACTORS FOR TRUE-AMPLITUDE PLOTS

SHOT POINT	EFFICIENCY FACTOR
C1	.005
C2	.04
1	.03
2	.03
3A	.03
3B	.02
4	.02
5	.05
6	.05
7	.02

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APPENDIX A

SEISMIC RECORDER LOCATIONS

U.S.G.S. SEISMIC STATION LOCATIONS

MAINE 1984

LOCATION NUMBER	LATITUDE (DEG,MIN)	LONGITUDE (DEG,MIN)	ELEV (M)
101	44 45.821	69 47.803	121
102	44 46.130	69 47.504	106
103	44 45.601	69 46.462	88
104	44 45.908	69 45.993	109
105	44 45.766	69 45.292	97
106	44 45.246	69 44.834	57
107	44 45.186	69 44.063	73
108	44 44.572	69 43.542	73
109	44 44.410	69 42.775	85
110	44 43.918	69 42.610	140
111	44 43.563	69 42.397	176
112	44 43.391	69 41.867	176
113	44 43.162	69 41.308	131
114	44 43.401	69 40.465	97
115	44 42.899	69 40.121	91
116	44 42.571	69 39.721	60
117	44 42.527	69 38.765	42
118	44 42.278	69 38.013	36
119	44 41.927	69 37.852	39
120	44 41.576	69 37.753	36
121	44 40.776	69 37.536	48
122	44 40.396	69 37.342	51
123	44 40.182	69 37.143	54
124	44 39.680	69 36.823	48
125	44 39.296	69 36.563	51
126	44 39.383	69 35.887	54
127	44 39.015	69 35.249	60
128	44 38.864	69 34.585	70
129	44 38.762	69 34.055	67
130	44 38.651	69 33.374	79
131	44 38.307	69 32.731	88
132	44 37.885	69 32.812	73
133	44 37.224	69 32.756	57
134	44 36.805	69 32.723	48
135	44 36.626	69 31.613	42
136	44 36.498	69 31.103	45
137	44 36.124	69 30.584	48
138	44 36.232	69 29.844	54
139	44 36.225	69 29.155	42
140	44 36.171	69 28.413	51
141	44 35.557	69 28.257	67
142	44 35.216	69 27.818	48
143	44 35.115	69 26.982	48
144	44 35.061	69 26.586	51
145	44 34.782	69 26.124	60
146	44 34.572	69 25.765	48
147	44 34.117	69 25.529	54
148	44 33.705	69 25.327	73
149	44 33.250	69 25.422	85
150	44 32.652	69 25.329	73

U.S.G.S. SEISMIC STATION LOCATIONS

MAINE 1984

LOCATION NUMBER	LATITUDE (DEG,MIN)	LONGITUDE (DEG,MIN)	ELEV (M)
151	44 32.143	69 24.849	79
152	44 32.274	69 24.113	97
153	44 32.193	69 23.377	137
154	44 32.035	69 22.839	124
155	44 31.728	69 22.354	152
156	44 31.633	69 21.792	176
157	44 31.529	69 21.216	158
158	44 31.238	69 20.849	170
159	44 31.117	69 20.293	167
160	44 31.103	69 19.590	161
161	44 30.557	69 19.099	152
162	44 30.169	69 19.283	161
163	44 29.802	69 18.387	213
164	44 29.703	69 17.482	219
165	44 29.864	69 17.201	188
166	44 29.638	69 16.395	164
167	44 29.352	69 16.084	158
168	44 28.981	69 15.775	170
169	44 28.593	69 15.016	207
170	44 28.381	69 14.626	195
171	44 28.099	69 14.168	237
172	44 27.710	69 13.920	262
173	44 27.400	69 13.578	158
174	44 27.193	69 12.807	103
175	44 26.839	69 12.505	103
176	44 26.384	69 12.074	149
177	44 26.315	69 11.393	137
178	44 26.209	69 10.678	106
179	44 26.768	69 9.766	82
180	44 26.503	69 8.924	73
181	44 26.082	69 8.397	79
182	44 25.369	69 9.072	82
183	44 25.233	69 9.539	94
184	44 25.013	69 8.423	76
185	44 24.541	69 8.264	73
186	44 23.887	69 8.086	115
187	44 23.767	69 7.352	128
188	44 23.727	69 6.709	121
189	44 23.271	69 6.349	103
190	44 22.807	69 5.921	85
191	44 22.911	69 4.982	106
192	44 22.593	69 4.554	115
193	44 22.327	69 4.341	137
194	44 22.357	69 3.642	175
195	44 22.371	69 3.008	152
196	44 22.036	69 2.477	118
197	44 21.628	69 2.310	94
198	44 21.186	69 2.059	103
199	44 20.687	69 1.597	128
200	44 20.544	69 1.196	131

U.S.G.S. SEISMIC STATION LOCATIONS

MAINE 1984

LOCATION NUMBER	LATITUDE (DEG,MIN)	LONGITUDE (DEG,MIN)	ELEV (M)
201	44 20.246	69 0.736	134
202	44 20.162	69 0.201	152
203	44 20.139	68 59.520	134
204	44 20.171	68 58.837	103
205	44 19.654	68 58.754	86
206	44 19.354	68 57.729	36
207	44 19.090	68 57.504	24
208	44 17.630	68 55.726	6
209	44 17.427	68 55.475	12
210	44 17.195	68 55.025	15
211	44 17.043	68 54.507	24
212	44 16.950	68 54.125	27
213	44 14.151	68 49.202	6
214	44 13.020	68 46.612	6
215	44 10.945	68 42.632	27
216	44 10.743	68 41.764	12
217	44 10.422	68 40.803	12
218	44 10.938	68 39.836	7
219	44 10.827	68 38.780	15
220	44 10.628	68 37.564	12
221	44 45.921	69 46.869	106
222	44 42.568	69 38.206	42
223	44 17.837	68 55.648	6
302	44 45.887	69 48.314	115
303	44 46.421	69 48.730	124
304	44 46.994	69 49.218	131
305	44 46.869	69 50.162	131
306	44 47.295	69 50.678	106
307	44 47.841	69 51.218	94
308	44 48.489	69 51.843	88
309	44 48.813	69 52.544	91
310	44 49.100	69 52.838	82
311	44 49.312	69 53.701	94
312	44 49.775	69 54.288	115
313	44 50.459	69 54.350	109
314	44 51.083	69 55.180	100
315	44 51.299	69 55.754	118
316	44 51.592	69 56.513	112
317	44 51.873	69 57.305	103
318	44 52.294	69 58.069	109
319	44 52.814	69 58.016	118
320	44 53.006	69 58.832	121
321	44 53.327	69 59.359	109
322	44 53.759	69 59.734	109
323	44 54.096	70 0.528	115
324	44 54.319	70 1.121	106
325	44 54.768	70 1.719	131
326	44 55.422	70 1.913	115
327	44 55.418	70 2.573	128
328	44 55.557	70 3.153	131

U.S.G.S. SEISMIC STATION LOCATIONS

MAINE 1984

LOCATION NUMBER	LATITUDE (DEG,MIN)	LONGITUDE (DEG,MIN)	ELEV (M)
329	44 56.022	70 3.694	137
330	44 56.370	70 4.235	158
331	44 56.755	70 4.777	195
332	44 56.920	70 5.704	225
333	44 57.224	70 6.540	237
334	44 57.402	70 6.939	237
335	44 57.500	70 7.590	195
336	44 57.531	70 8.417	190
337	44 57.922	70 9.420	176
338	44 58.391	70 9.505	198
339	44 58.823	70 10.246	195
340	44 59.457	70 10.278	195
341	45 0.223	70 10.182	237
342	45 0.779	70 10.262	237
343	45 1.485	70 10.532	237
344	45 2.234	70 11.036	231
345	45 2.480	70 11.573	231
346	45 2.949	70 11.934	237
347	45 3.645	70 12.026	237
348	45 4.117	70 12.339	246
349	45 4.726	70 12.829	259
350	45 5.203	70 13.206	265
351	45 5.446	70 13.635	280
352	45 5.666	70 14.402	310
353	45 5.519	70 15.413	344
354	45 5.310	70 16.618	362
355	45 5.047	70 17.771	381
356	45 4.690	70 19.033	399
357	45 5.115	70 19.619	445
358	45 5.465	70 20.141	469
359	45 5.698	70 20.808	457
360	45 6.120	70 21.389	435
361	45 6.505	70 22.045	387
362	45 6.670	70 22.727	381
363	45 6.930	70 23.413	365
364	45 7.153	70 24.170	365
365	45 7.382	70 24.800	359
366	45 7.767	70 25.457	396
367	45 8.273	70 25.900	350
368	45 8.559	70 26.210	350
369	45 8.988	70 26.853	350
370	45 9.548	70 26.929	350
371	45 10.206	70 27.233	350
372	45 10.725	70 27.510	350
373	45 11.248	70 27.876	353
374	45 11.947	70 27.805	350
375	45 12.358	70 28.224	359
376	45 12.814	70 28.711	365
377	45 13.418	70 29.031	356
378	45 13.293	70 29.828	368

U.S.G.S. SEISMIC STATION LOCATIONS

MAINE 1984

LOCATION NUMBER	LATITUDE (DEG,MIN)	LONGITUDE (DEG,MIN)	ELEV (M)
379	45 12.863	70 30.749	365
380	45 13.722	70 29.384	358
381	45 14.201	70 29.680	362
382	45 14.586	70 30.229	371
383	45 14.810	70 30.952	371
384	45 14.891	70 31.702	365
385	45 14.975	70 32.610	371
386	45 15.322	70 32.911	365
387	45 15.713	70 33.962	368
388	45 16.206	70 34.213	371
389	45 16.604	70 34.536	371
390	45 16.722	70 35.023	377
391	45 17.201	70 35.488	384
392	45 17.545	70 36.077	377
393	45 18.073	70 36.274	374
394	45 18.630	70 36.923	390
395	45 18.883	70 37.304	396
396	45 19.149	70 37.835	408
397	45 19.614	70 38.578	425
398	45 19.877	70 39.140	408
399	45 20.289	70 39.610	399
400	45 20.679	70 40.212	408
401	45 20.922	70 40.690	396
402	45 21.119	70 41.335	402
403	45 21.540	70 41.869	396
404	45 21.921	70 42.301	396
405	45 22.057	70 43.184	402
406	45 22.293	70 43.759	405
407	45 22.569	70 44.381	398
408	45 22.606	70 45.018	408
412	45 24.753	70 48.105	481
413	45 24.683	70 47.334	472
414	45 24.411	70 46.819	445
415	45 24.415	70 45.076	420
416	45 2.891	70 12.211	249
417	44 53.556	69 58.443	172
420	44 19.638	68 58.781	86
421	45 23.191	70 45.174	409
422	45 23.543	70 45.172	420
423	45 23.996	70 45.120	426
424	45 24.333	70 46.711	441
501	46 1.176	71 24.465	
502	46 0.872	71 24.761	359
503	46 0.598	71 24.982	374
504	46 0.303	71 25.512	335
505	45 59.708	71 25.563	313
506	45 59.284	71 24.518	327
507	45 58.819	71 23.398	307
508	45 58.559	71 23.189	304
509	45 58.457	71 22.100	274

U.S.G.S. SEISMIC STATION LOCATIONS

MAINE 1984

LOCATION NUMBER	LATITUDE (DEG,MIN)	LONGITUDE (DEG,MIN)	ELEV (M)
510	45 57.928	71 21.613	286
511	45 57.699	71 21.177	291
512	45 57.704	71 20.636	342
513	45 57.494	71 20.240	377
514	45 57.239	71 19.591	396
515	45 56.899	71 19.073	352
516	45 56.330	71 19.204	359
517	45 55.748	71 19.257	315
518	45 55.310	71 19.665	309
519	45 54.925	71 20.039	284
520	45 54.836	71 17.230	385
521	45 54.461	71 18.113	327
522	45 53.804	71 18.576	304
523	45 53.362	71 19.042	298
524	45 52.843	71 19.623	300
525	45 52.356	71 19.425	289
526	45 51.973	71 18.849	289
527	45 51.551	71 18.124	315
528	45 51.232	71 17.570	297
529	45 51.024	71 17.183	301
530	45 50.750	71 16.731	292
531	45 50.476	71 16.237	315
532	45 50.257	71 15.536	356
533	45 49.973	71 15.280	342
534	45 49.468	71 15.327	379
535	45 48.908	71 15.633	385
536	45 48.510	71 15.674	416
537	45 47.975	71 16.144	356
538	45 43.694	71 11.585	388
539	45 43.424	71 10.900	371
540	45 43.132	71 10.369	376
541	45 49.933	71 11.521	306
542	45 49.518	71 11.641	310
543	45 49.078	71 11.759	310
544	45 48.694	71 11.790	304
545	45 48.447	71 11.463	306
546	45 48.175	71 10.974	312
547	45 47.766	71 10.595	312
548	45 47.253	71 10.606	313
549	45 46.902	71 10.461	316
550	45 46.569	71 10.224	326
551	45 46.077	71 9.989	338
552	45 45.256	71 10.681	358
553	45 44.910	71 10.870	350
554	45 44.317	71 11.379	356
555	45 39.054	71 7.290	451
556	45 42.833	71 9.871	420
557	45 43.290	71 8.702	338
558	45 42.421	71 9.724	451
559	45 42.363	71 9.048	464

U.S.G.S. SEISMIC STATION LOCATIONS

MAINE 1984

LOCATION NUMBER	LATITUDE (DEG,MIN)	LONGITUDE (DEG,MIN)	ELEV (M)
560	45 42.065	71 8.535	457
561	45 41.829	71 8.160	443
562	45 41.532	71 7.879	451
563	45 41.193	71 7.528	449
564	45 40.836	71 6.948	426
565	45 40.621	71 6.589	411
566	45 40.344	71 6.120	377
567	45 40.092	71 5.683	411
568	45 39.852	71 5.235	411
569	45 39.643	71 4.881	411
570	45 39.375	71 4.463	420
571	45 39.137	71 3.861	437
572	45 39.061	71 3.304	454
573	45 38.760	71 2.923	472
574	45 38.566	71 2.585	484
575	45 38.215	71 1.961	507
576	45 37.375	71 1.857	502
577	45 36.791	71 2.217	512
578	45 36.403	71 1.868	554
579	45 35.933	71 1.828	556
580	45 35.570	71 1.577	571
581	45 35.340	71 1.183	571
582	45 35.131	71 0.303	518
583	45 34.768	70 59.902	518
584	45 34.511	70 59.770	515
585	45 34.154	70 59.480	505
586	45 33.698	70 59.341	490
587	45 33.256	70 58.995	480
588	45 33.201	70 58.397	429
589	45 32.970	70 58.009	408
590	45 32.631	70 57.659	411
591	45 32.435	70 56.783	411
592	45 32.085	70 56.418	457
593	45 31.907	70 55.782	518
594	45 31.521	70 55.607	525
595	45 31.026	70 55.467	510
596	45 30.549	70 55.589	490
597	45 30.544	70 54.621	438
598	45 30.087	70 54.145	419
599	45 29.779	70 54.004	403
600	45 29.358	70 54.120	411
601	45 28.867	70 53.805	417
602	45 28.351	70 53.779	403
603	45 29.305	70 52.115	403
604	45 28.646	70 52.285	403
605	45 28.298	70 52.089	405
606	45 27.967	70 51.702	409
607	45 27.838	70 51.283	409
608	45 27.474	70 50.796	419
609	45 27.300	70 50.353	419

U.S.G.S. SEISMIC STATION LOCATIONS

MAINE 1984

LOCATION NUMBER	LATITUDE (DEG,MIN)	LONGITUDE (DEG,MIN)	ELEV (M)
610	45 26.843	70 50.135	411
611	45 26.416	70 50.109	400
612	45 25.876	70 50.122	419
613	45 25.444	70 49.767	435
614	45 25.384	70 49.109	441
615	45 24.728	70 49.916	460

APPENDIX B

TEAM DATA SHEETS

Team data sheets contain all the information related to the performance of the seismic recorders. The recorders are grouped into six teams of twenty instruments, and information for each team is given for each shot. Numerical values were asigned to all shot points. Shot points 4 and 7, which had multiple drill holes, have multiple shot point numbers corresponding to different drill hole locations. These are listed below the column headings. The column headings are as follows:

LOC	-	location number from the seismic recorder location file
DIST (KM)	-	distance from the shot point to the recorder location in kilometers
AZIM (DEG)	-	azimuth clockwize north from the shotpoint to the recorder location
UNIT	-	I. D. number of the recording unit
CHRON	-	chronometer correction in milliseconds for the recorder at shot time (calculated from the total drift assuming a linear drift rate)
CHAN	-	channel number (1, 2, or 3) which was digitized
C1 C2 C3	-	attenuation settings (dB) for channels 1, 2, and 3
TAPE GRADE	-	number used to code the instrument performance, the data quality, and/or the reason for omitting the trace from a record section

SHOT POINT	LOCATION NUMBERS
C1	31
C2	32
3A	3
3B	33
4	4, 34, 44
7	7, 37

DIRECTORY OF TAPE GRADE CODES

0 - Digitized

1 - Tape did not run

2 - Dropout in data

3 - Skipped record time

5 - Time code translator read time but detected error

6 - Time code translator cannot read time.

12 - Random noise

17 - Bad time code

21 - Geophone disconnected or shorted

32 - No seismic arrival

33 - Trace deleted from record section;
Deployed off line

34 - Trace deleted from record section;
Overlapping traces

35 - Clipped record

36 - Trace deleted from true-amplitude record section;
Noisy trace.

37 - Filtered data plotted

DKDAT FIELD DATA TABLE

MAINE - 1984 EXPERIMENT
SHOT NUMBER 1 SHOT POINT 31 TEAM 1
SHOT TIME: 269: 4: 0: 0.020

	LOC	DIST(KM)	AZIM	UNIT	CHRON	CHAN	C1	C2	C3	TAPE GRADE
1	101	188.171	138.0	1	14	1	30	12	88	0
2	221	188.846	137.7	2	0	1	30	12	68	0
3	103	189.646	137.7	3	11	1	30	12	68	0
4	104	189.633	137.4	4	-178	1	30	12	68	0/34
5	105	190.445	137.3	5	18	1	30	12	48	0
6	106	191.564	137.3	6	7	1	30	12	48	0
7	107	192.328	137.1	7	-17	1	30	12	48	0
8	108	193.631	137.2	8	10	1	30	12	48	0
9	109	194.531	137.1	9	59	2	30	12	48	0
10	110	195.353	137.2	10	-12	1	30	12	48	0
11	111	196.029	137.3	11	-17	2	30	12	48	0
12	112	196.733	137.2	12	13	2	30	12	48	0
13	113	197.542	137.1	13	12	1	30	12	48	0
14	114	197.961	136.8	14	-21	2	30	12	48	0
15	115	198.955	136.9	15	-99	1	30	12	48	0
16	116	199.758	136.9	16	-10	1	30	12	48	0
17	222	201.113	136.5	17	28	1	30	12	48	0
18	118	201.681	136.5	18	-12		30	12	48	1
19	119	202.302	136.6	19	12	1	30	12	48	0
20	120	202.869	136.7	20	-5	1	30	12	48	0

DKDAT FIELD DATA TABLE

MAINE - 1984 EXPERIMENT
SHOT NUMBER 1 SHOT POINT 31 TEAM 2
SHOT TIME: 269: 4: 0: 0.020

	LOC	DIST(KM)	AZIM	UNIT	CHRON	CHAN	C1	C2	C3	TAPE GRADE
1	121	204.155	136.9	21	-10	1	30	12	48	0
2	122	204.848	137.0	22	13	1	30	12	48	0
3	123	205.318	137.0	23	19	1	30	12	48	0
4	124	206.291	137.1	24	-5	1	30	12	48	0
5	125	207.049	137.2	25	6	1	30	12	48	0
6	126	207.527	137.0	26	9		30	12	48	1
7	127	208.598	136.9	27	7	1	30	12	48	0
8	128	209.395	136.8	28	-77	1	30	12	48	0
9	129	210.006	136.7	29	11	1	30	12	48	0
10	130	210.765	136.6	30	7	1	30	12	48	0
11	131	211.809	136.5	31	9	1	30	12	48	0
12	132	212.312	136.7	32	17	1	30	12	48	0
13	133	213.266	136.9	33	29	1	30	12	48	0
14	134	213.869	137.0	34	11	1	30	12	48	0
15	135	215.100	136.8	35	-32	1	30	12	48	0
16	136	215.730	136.7	36	1	1	30	12	48	0
17	137	216.704	136.7	37	0	1	30	12	48	0
18	138	217.218	136.5	38	3	2	30	12	48	0
19	139	217.845	136.3	39	4	1	30	12	48	0
20	140	218.586	136.2	40	6	1	30	12	48	0

DKDAT FIELD DATA TABLE

MAINE - 1984 EXPERIMENT
SHOT NUMBER 1 SHOT POINT 31 TEAM 3
SHOT TIME: 269: 4: 0: 0.020

	LOC	DIST(KM)	AZIM	UNIT	CHRON	CHAN	C1	C2	C3	TAPE GRADE
1	141	219.558	136.3	41	-9	1	30	12	68	0
2	142	220.415	136.3	42	9	1	30	12	68	0
3	143	221.305	136.1	43	0	1	30	12	88	0
4	144	221.736	136.1	44	43	1	30	12	88	0
5	145	222.530	136.1	45	2	1	30	12	88	0
6	146	223.137	136.0	46	-2	1	30	12	68	0
7	147	223.965	136.1	47	28		30	12	68	21/32
8	148	224.705	136.2	48	-12	2	30	12	48	0
9	149	225.238	136.4	49	11	2	30	12	48	0
10	150	226.135	136.5	50	-5		30	12	48	17
11	151	227.259	136.6	51	4	1	30	12	48	0
12	152	227.739	136.4	52	17	1	30	12	48	0
13	153	228.511	136.2	53	8	2	30	12	48	0
14	154	229.210	136.1	54	-12	1	30	12	48	0
15	155	230.064	136.1	55	8	1	30	12	48	0
16	156	230.699	136.0	56	18		30	12	48	17
17	157	231.361	135.9	57	6	2	30	12	48	0
18	158	232.085	135.9	58	-20	1	30	12	48	0
19	159	232.753	135.8	59	-4	2	30	12	48	0
20	160	233.409	135.7	60	-7	2	30	12	48	0

DKDAT FIELD DATA TABLE

MAINE - 1984 EXPERIMENT
SHOT NUMBER 1 SHOT POINT 31 TEAM 4
SHOT TIME: 269: 4: 0: 0.020

	LOC	DIST(KM)	AZIM	UNIT	CHRON	CHAN	C1	C2	C3	TAPE GRADE
1	161	234.590	135.7	61	14	2	30	12	48	0
2	162	234.947	135.9	62	9	1	30	12	48	0
3	163	236.254	135.8	63	10	1	30	12	48	0
4	164	237.210	135.6	64	16	1	30	12	48	0
5	165	237.250	135.5	65	-14	1	30	12	48	0/34
6	166	238.287	135.4	66	8	2	30	12	48	0
7	167	238.955	135.4	67	-9	1	30	12	68	0
8	168	239.734	135.5	68	-10	1	30	12	68	0
9	169	240.948	135.4	69	-9	1	30	12	68	0
10	170	241.588	135.4	70	30	2	30	12	88	0
11	171	242.385	135.4	71	-4	1	30	12	88	0
12	172	243.132	135.5	72	15	2	30	12	88	0
13	173	243.860	135.5	73	-12	2	30	12	88	0
14	174	244.842	135.4	74	38	2	30	12	68	0
15	175	245.592	135.4	75	14	2	30	12	68	0
16	176	246.595	135.5	76	7	2	30	12	68	0
17	177	247.311	135.3	77	6	2	30	12	68	0
18	178	248.108	135.2	78	-2	1	30	12	48	5
19	179	248.204	134.8	79	19	2	30	12	48	0
20	180	249.333	134.7	80	14	2	30	12	48	0

DKDAT FIELD DATA TABLE

MAINE - 1984 EXPERIMENT
SHOT NUMBER 1 SHOT POINT 31 TEAM 5
SHOT TIME: 269: 4: 0: 0.020

	LOC	DIST(KM)	AZIM	UNIT	CHRON	CHAN	C1	C2	C3	TAPE GRADE
1	181	250.378	134.8	81	1	1	30	12	48	0/34
2	182	250.703	135.1	82	-7	2	30	12	48	0
3	183	250.456	135.2	83	24	2	30	12	48	0/34
4	184	251.775	135.1	84	25	2	30	12	48	0
5	185	252.550	135.2	85	-18		30	12	48	17
6	186	253.589	135.3	86	2	2	30	12	48	0
7	187	254.421	135.2	87	8	1	30	12	48	0
8	188	255.066	135.1	88	-2	1	30	12	48	0
9	189	256.005	135.1	89	1		30	12	48	1
10	190	257.018	135.2	90	41	1	30	12	48	0
11	191	257.743	135.0	91	3	2	30	12	48	0
12	192	258.560	135.0	92	0	2	30	12	48	0
13	193	259.111	135.0	93	3	2	30	12	48	0
14	194	259.716	134.9	94	21	2	30	12	48	0
15	195	260.284	134.7	95	-7	2	30	12	48	0
16	196	261.220	134.7	96	-29	2	30	12	48	0
17	197	261.915	134.8	97	7	1	30	12	48	0
18	198	262.734	134.9	98	47		30	12	48	17
19	199	263.824	134.9	99	12	2	30	12	48	0
20	200	264.384	134.9	100	--		30	12	48	1

DKDAT FIELD DATA TABLE

MAINE - 1984 EXPERIMENT
SHOT NUMBER 1 SHOT POINT 31 TEAM 6
SHOT TIME: 269: 4: 0: 0.020

	LOC	DIST(KM)	AZIM	UNIT	CHRON	CHAN	C1	C2	C3	TAPE GRADE
1	201	265.205	134.9	101	19	1	30	12	68	0
2	202	265.811	134.8	102	9	2	30	12	68	0
3	203	266.473	134.7	103	3	2	30	12	88	0
4	204	267.064	134.5	104	-3	2	30	12	88	0
5	205	267.825	134.6	105	20	2	30	12	88	0
6	206	269.173	134.5	106	-6	2	30	12	88	0
7	207	269.732	134.5	107	12	2	30	12	68	0
8	208	273.315	134.6	108	-5	2	30	12	48	0
9	209	273.816	134.6	109	2	2	30	12	48	0
10	210	274.541	134.6	110	22	1	30	12	48	0
11	211	275.223	134.5	111	24	1	30	12	48	0
12	212	275.701	134.5	112	-6	2	30	12	48	0
13	213	283.983	134.3	113	-10	2	30	12	48	0
14	214	287.893	134.1	114	-4	2	30	12	48	0
15	215	294.351	133.9	115	1	2	30	12	48	0
16	216	295.432	133.8	116	29	2	30	12	48	0
17	217	296.756	133.8	117	--		30	12	48	1
18	218	296.998	133.5	118	1	2	30	12	48	0
19	219	298.144	133.3	119	4		30	12	48	1
20	220	299.559	133.1	120	3	2	30	12	48	0

DKDAT FIELD DATA TABLE

MAINE - 1984 EXPERIMENT
SHOT NUMBER 2 SHOT POINT 7 TEAM 1
SHOT TIME: 269: 4: 3: 0.006

	LOC	DIST(KM)	AZIM	UNIT	CHRON	CHAN	C1	C2	C3	TAPE GRADE
1	101	80.908	306.8	1	14	2	30	12	88	0
2	221	80.036	307.4	2	0	2	30	12	68	0
3	103	79.376	307.3	3	11	2	30	12	68	0
4	104	79.228	307.9	4	-178	2	30	12	68	0/34
5	105	78.336	308.1	5	18	1	30	12	48	0
6	106	77.269	307.9	6	7	1	30	12	48	0
7	107	76.395	308.3	7	-17	2	30	12	48	0
8	108	75.156	307.9	8	10	1	30	12	48	0
9	109	74.172	308.2	9	59	2	30	12	48	0
10	110	73.441	307.8	10	-12	1	30	12	48	0
11	111	72.819	307.5	11	-17	1	30	12	48	0
12	112	72.069	307.6	12	13	2	30	12	48	0
13	113	71.226	307.7	13	12	1	30	12	48	0
14	114	70.620	308.5	14	-21	2	30	12	48	0
15	115	69.687	308.2	15	-99	1	30	12	48	0
16	116	68.897	308.1	16	-10	1	30	12	48	0
17	222	67.325	309.1	17	28	1	30	12	48	0
18	118	66.789	308.9	18	-12		30	12	48	1
19	119	66.218	308.6	19	12	1	30	12	48	0
20	120	65.714	308.2	20	-5		30	12	48	2

DKDAT FIELD DATA TABLE

MAINE - 1984 EXPERIMENT
SHOT NUMBER 2 SHOT POINT 7 TEAM 2
SHOT TIME: 269: 4: 3: 0.006

	LOC	DIST(KM)	AZIM	UNIT	CHRON	CHAN	C1	C2	C3	TAPE GRADE
1	121	64.584	307.3	21	-10	1	30	12	48	0
2	122	63.957	306.9	22	13	1	30	12	48	0
3	123	63.510	306.8	23	19	1	30	12	48	0
4	124	62.617	306.4	24	-5	2	30	12	48	0
5	125	61.921	306.0	25	6	2	30	12	48	0
6	126	61.294	306.6	26	9		30	12	48	1
7	127	60.211	306.6	27	7	1	30	12	48	0
8	128	59.339	306.9	28	-77	2	30	12	48	0
9	129	58.665	307.1	29	11	2	30	12	48	0
10	130	57.823	307.5	30	7	2	30	12	48	0
11	131	56.760	307.5	31	9	2	30	12	48	0
12	132	56.375	306.8	32	17	2	30	12	48	0
13	133	55.593	305.9	33	29		30	12	48	17
14	134	55.109	305.2	34	11	2	30	12	48	0
15	135	53.720	305.8	35	-32	2	30	12	48	0
16	136	53.033	306.1	36	1		30	12	48	17
17	137	52.070	305.9	37	0	1	30	12	48	0
18	138	51.397	306.7	38	3		30	12	48	3
19	139	50.660	307.3	39	4	2	30	12	48	0
20	140	49.820	307.9	40	6	2	30	12	48	0

DKDAT FIELD DATA TABLE

MAINE - 1984 EXPERIMENT
SHOT NUMBER 2 SHOT POINT 7 TEAM 3
SHOT TIME: 269: 4: 3: 0.006

	LOC	DIST(KM)	AZIM	UNIT	CHRON	CHAN	C1	C2	C3	TAPE GRADE
1	141	48.967	307.0	41	-9	2	30	12	68	0
2	142	48.124	306.8	42	9	2	30	12	68	0
3	143	47.127	307.5	43	0	2	30	12	88	0
4	144	46.650	307.8	44	43	2	30	12	88	0
5	145	45.850	307.7	45	2	2	30	12	88	0
6	146	45.237	307.7	46	-2	2	30	12	68	0
7	147	44.478	307.1	47	28	2	30	12	68	21/32
8	148	43.808	306.5	48	-12	2	30	12	48	0
9	149	43.416	305.5	49	11	2	30	12	48	0
10	150	42.683	304.4	50	-5	2	30	12	48	0
11	151	41.629	303.8	51	4	1	30	12	48	0
12	152	40.960	304.8	52	17	2	30	12	48	0
13	153	40.075	305.5	53	8	2	30	12	48	0
14	154	39.324	305.7	54	-12	1	30	12	48	0
15	155	38.470	305.6	55	8	1	30	12	48	0
16	156	37.764	306.0	56	18	2	30	12	48	0
17	157	37.034	306.5	57	6	2	30	12	48	0
18	158	36.323	306.3	58	-20	2	30	12	48	0
19	159	35.596	306.7	59	-4	2	30	12	48	0
20	160	34.837	307.6	60	-7	2	30	12	48	0

DKDAT FIELD DATA TABLE

MAINE - 1984 EXPERIMENT
SHOT NUMBER 2 SHOT POINT 7 TEAM 4
SHOT TIME: 269: 4: 3: 0.006

	LOC	DIST(KM)	AZIM	UNIT	CHRON	CHAN	C1	C2	C3	TAPE GRADE
1	161	33.708	306.9	61	14	1	30	12	48	0
2	162	33.481	305.6	62	9	1	30	12	48	0
3	163	32.120	305.9	63	10	1	30	12	48	0
4	164	31.044	306.9	64	16	1	30	12	48	0
5	165	30.928	307.8	65	-14	1	30	12	48	0/34
6	166	29.829	308.4	66	8	1	30	12	48	0
7	167	29.177	308.1	67	-9	1	30	12	68	0
8	168	28.433	307.5	68	-10	1	30	12	68	0
9	169	27.197	307.6	69	-9	1	30	12	68	0
10	170	26.547	307.6	70	30	1	30	12	88	0
11	171	25.747	307.5	71	-4	1	30	12	88	0
12	172	25.051	306.6	72	15	1	30	12	88	0
13	173	24.346	306.2	73	-12	1	30	12	88	0
14	174	23.295	306.9	74	38	1	30	12	68	0
15	175	22.584	306.2	75	14	1	30	12	68	0
16	176	21.628	305.3	76	7	1	30	12	68	0
17	177	20.820	306.4	77	6	1	30	12	68	0
18	178	19.944	307.6	78	-2	1	30	12	48	0
19	179	19.676	312.1	79	19	1	30	12	48	0
20	180	18.522	313.3	80	14	3	30	12	48	0

DKDAT FIELD DATA TABLE

MAINE - 1984 EXPERIMENT
SHOT NUMBER 2 SHOT POINT 7 TEAM 5
SHOT TIME: 269: 4: 3: 0.006

	LOC	DIST(KM)	AZIM	UNIT	CHRON	CHAN	C1	C2	C3	TAPE GRADE
1	181	17.479	313.1	81	1	1	30	12	48	0/34
2	182	17.307	307.8	82	-7	1	30	12	48	0
3	183	17.651	305.9	83	24	1	30	12	48	0
4	184	16.222	307.9	84	25	3	30	12	48	0
5	185	15.529	305.8	85	-18		30	12	48	17
6	186	14.654	302.5	86	2	3	30	12	48	0
7	187	13.716	303.9	87	8	3	30	12	48	0
8	188	12.972	305.7	88	-2	3	30	12	48	0
9	189	12.098	303.8	89	1		30	12	48	1
10	190	11.155	301.7	90	41	3	30	12	48	0
11	191	10.229	306.3	91	3	3	30	12	48	0
12	192	9.423	305.5	92	0	3	30	12	48	0
13	193	8.909	304.0	93	3	3	30	12	48	0
14	194	8.189	307.9	94	21	3	30	12	48	0
15	195	7.560	312.0	95	-7	3	30	12	48	0
16	196	6.620	312.1	96	-29	3	30	12	48	0
17	197	5.964	308.1	97	7	3	30	12	48	0
18	198	5.214	303.3	98	47		30	12	48	17
19	199	4.216	297.4	99	12	3	30	12	48	0
20	200	3.622	297.6	100	--		30	12	48	0

DKDAT FIELD DATA TABLE

MAINE - 1984 EXPERIMENT
SHOT NUMBER 2 SHOT POINT 7 TEAM 6
SHOT TIME: 269: 4: 3: 0.006

	LOC	DIST(KM)	AZIM	UNIT	CHRON	CHAN	C1	C2	C3	TAPE GRADE
1	201	2.831	293.4	101	19	3	30	12	68	0
2	202	2.122	297.2	102	9	3	30	12	68	0
3	203	1.350	313.4	103	3	3	30	12	88	0
4	204	0.989	355.7	104	-3	3	30	12	88	0
5	205	0.046	51.2	105	20	3	30	12	88	0
6	206	1.495	110.6	106	-6	3	30	12	88	0
7	207	1.979	120.9	107	12	3	30	12	68	0
8	208	5.509	132.5	108	-5	3	30	12	48	0
9	209	6.008	133.0	109	2	3	30	12	48	0
10	210	6.740	132.2	110	22	3	30	12	48	0
11	211	7.443	130.2	111	24	3	30	12	48	0
12	212	7.945	128.8	112	-6	1	30	12	48	0
13	213	16.300	128.6	113	-10	1	30	12	48	0
14	214	20.308	127.1	114	-4	1	30	12	48	0
15	215	26.857	126.8	115	1	1	30	12	48	0
16	216	28.009	126.0	116	29		30	12	48	17
17	217	29.395	125.5	117	--		30	12	48	1
18	218	29.926	122.6	118	1	1	30	12	48	0
19	219	31.226	121.5	119	4		30	12	48	1
20	220	32.805	120.6	120	3	1	30	12	48	0

DKDAT FIELD DATA TABLE

MAINE - 1984 EXPERIMENT
SHOT NUMBER 3 SHOT POINT 5 TEAM 1
SHOT TIME: 269: 4: 5: 0.010

	LOC	DIST(KM)	AZIM	UNIT	CHRON	CHAN	C1 C2 C3	TAPE GRADE
1	101	34.400	305.4	1	14	2	30 12 88	0
2	221	33.512	306.9	2	0	2	30 12 68	0
3	103	32.726	306.6	3	11	2	30 12 68	0
4	104	32.578	308.1	4	-178	1	30 12 68	0/34
5	105	31.689	308.7	5	18	1	30 12 48	0
6	106	30.619	308.0	6	7	1	30 12 48	0
7	107	29.751	309.1	7	-17	1	30 12 48	0
8	108	28.506	308.2	8	10	1	30 12 48	0
9	109	27.527	309.0	9	59	2	30 12 48	0
10	110	26.790	307.8	10	-12	1	30 12 48	0
11	111	26.169	307.0	11	-17	1	30 12 48	0
12	112	25.418	307.4	12	13	2	30 12 48	0
13	113	24.575	307.6	13	12	1	30 12 48	0
14	114	23.985	310.1	14	-21	2	30 12 48	0
15	115	23.041	309.1	15	-99	1	30 12 48	0
16	116	22.250	308.7	16	-10	1	30 12 48	0
17	222	20.721	312.2	17	28	1	30 12 48	0
18	118	20.172	311.5	18	-12		30 12 48	1
19	119	19.586	310.5	19	12	1	30 12 48	0
20	120	19.069	309.3	20	-5	1	30 12 48	0

DKDAT FIELD DATA TABLE

MAINE - 1984 EXPERIMENT
SHOT NUMBER 3 SHOT POINT 5 TEAM 2
SHOT TIME: 269: 4: 5: 0.010

	LOC	DIST(KM)	AZIM	UNIT	CHRON	CHAN	C1 C2 C3	TAPE GRADE
1	121	17.936	306.2	21	-10	1	30 12 48	0
2	122	17.320	304.8	22	13	1	30 12 48	0
3	123	16.879	304.2	23	19	1	30 12 48	0
4	124	16.015	302.3	24	-5	1	30 12 48	0
5	125	15.350	300.8	25	6	1	30 12 48	0
6	126	14.677	303.1	26	9		30 12 48	1
7	127	13.599	302.6	27	7	1	30 12 48	0
8	128	12.710	303.7	28	-78	1	30 12 48	0
9	129	12.025	304.8	29	11	1	30 12 48	0
10	130	11.173	306.6	30	7	1	30 12 48	0
11	131	10.111	306.5	31	9	1	30 12 48	0
12	132	9.756	302.5	32	17	1	30 12 48	0
13	133	9.091	296.2	33	29	1	30 12 48	0
14	134	8.737	291.7	34	11	1	30 12 48	0
15	135	7.254	293.6	35	-32	3	30 12 48	0
16	136	6.540	294.1	36	1	3	30 12 48	0
17	137	5.641	290.5	37	0	3	30 12 48	0
18	138	4.823	296.8	38	3		30 12 48	3
19	139	4.024	302.5	39	4	3	30 12 48	0
20	140	3.173	310.5	40	6	3	30 12 48	0

DKDAT FIELD DATA TABLE

MAINE - 1984 EXPERIMENT
SHOT NUMBER 3 SHOT POINT 5 TEAM 3
SHOT TIME: 269: 4: 5: 0.010

	LOC	DIST(KM)	AZIM	UNIT	CHRON	CHAN	C1 C2 C3	TAPE GRADE
1	141	2.392	292.7	41	-9	3	30 12 68	0
2	142	1.651	280.2	42	9	3	30 12 68	0
3	143	0.529	281.5	43	0	3	30 12 88	0
4	144	0.008	45.6	44	43	3	30 12 88	5
5	145	0.802	129.6	45	2	3	30 12 88	0
6	146	1.415	129.4	46	-2	3	30 12 68	0
7	147	2.238	141.1	47	29	2	30 12 68	21/32
8	148	3.012	146.3	48	-12	3	30 12 48	0
9	149	3.688	155.2	49	11	3	30 12 48	0
10	150	4.757	159.4	50	-5	3	30 12 48	0
11	151	5.870	156.9	51	4	3	30 12 48	0
12	152	6.110	147.5	52	17	3	30 12 48	0
13	153	6.800	141.3	53	8	3	30 12 48	0
14	154	7.484	138.4	54	-12	3	30 12 48	0
15	155	8.337	137.7	55	8	3	30 12 48	0
16	156	8.978	134.9	56	18	3	30 12 48	0
17	157	9.662	132.6	57	6	3	30 12 48	0
18	158	10.385	132.9	58	-20	3	30 12 48	0
19	159	11.083	131.2	59	-4	1	30 12 48	0
20	160	11.814	128.3	60	-7	1	30 12 48	0

DKDAT FIELD DATA TABLE

MAINE - 1984 EXPERIMENT
SHOT NUMBER 3 SHOT POINT 5 TEAM 4
SHOT TIME: 269: 4: 5: 0.010

	LOC	DIST(KM)	AZIM	UNIT	CHRON	CHAN	C1 C2 C3	TAPE GRADE
1	161	12.958	130.0	61	14	1	30 12 48	0
2	162	13.253	133.1	62	9	1	30 12 48	0
3	163	14.589	131.9	63	10	1	30 12 48	0
4	164	15.618	129.4	64	16	1	30 12 48	5
5	165	15.723	127.7	65	-14	1	30 12 48	0
6	166	16.826	126.6	66	8	1	30 12 48	0
7	167	17.475	127.2	67	-9	1	30 12 68	0
8	168	18.219	128.1	68	-10	1	30 12 68	0
9	169	19.454	128.0	69	-9	1	30 12 68	0
10	170	20.104	128.0	70	30	1	30 12 88	0
11	171	20.904	128.1	71	-4	1	30 12 88	0
12	172	21.611	129.0	72	15	1	30 12 88	0
13	173	22.326	129.4	73	-12	1	30 12 88	0
14	174	23.361	128.6	74	38	1	30 12 68	0
15	175	24.085	129.2	75	14	1	30 12 68	0
16	176	25.062	129.9	76	7	1	30 12 68	0
17	177	25.842	128.8	77	6	1	30 12 68	0
18	178	26.707	127.8	78	-2	1	30 12 48	0
19	179	27.070	124.6	79	19	1	30 12 48	0
20	180	28.269	124.1	80	14	1	30 12 48	0

DKDAT FIELD DATA TABLE

MAINE - 1984 EXPERIMENT
SHOT NUMBER 3 SHOT POINT 5 TEAM 5
SHOT TIME: 269: 4: 5: 0.010

	LOC	DIST(KM)	AZIM	UNIT	CHRON	CHAN	C1	C2	C3	TAPE GRADE
1	181	29.286	124.6	81	1	2	30	12	48	0/34
2	182	29.344	127.7	82	-7	2	30	12	48	0
3	183	29.015	128.8	83	24	2	30	12	48	0
4	184	30.429	127.7	84	25	1	30	12	48	0
5	185	31.137	128.7	85	-18		30	12	48	17
6	186	32.091	130.1	86	2	1	30	12	48	0
7	187	32.981	129.3	87	8	1	30	12	48	0
8	188	33.691	128.5	88	-2	1	30	12	48	0
9	189	34.594	129.1	89	1		30	12	48	1
10	190	35.579	129.6	90	41	2	30	12	48	0
11	191	36.427	128.1	91	3	2	30	12	48	0
12	192	37.238	128.3	92	0	2	30	12	48	0
13	193	37.767	128.6	93	3	2	30	12	48	0
14	194	38.462	127.7	94	21	2	30	12	48	0
15	195	39.114	126.9	95	-7	1	30	12	48	0
16	196	40.052	127.0	96	-29	2	30	12	48	0
17	197	40.687	127.7	97	7	1	30	12	48	0
18	198	41.455	128.3	98	47		30	12	48	17
19	199	42.511	128.8	99	12	2	30	12	48	0
20	200	43.092	128.6	100	--		30	12	48	1

DKDAT FIELD DATA TABLE

MAINE - 1984 EXPERIMENT
SHOT NUMBER 3 SHOT POINT 5 TEAM 6
SHOT TIME: 269: 4: 5: 0.010

	LOC	DIST(KM)	AZIM	UNIT	CHRON	CHAN	C1	C2	C3	TAPE GRADE
1	201	43.915	128.7	101	19	2	30	12	68	0
2	202	44.567	128.2	102	9	2	30	12	68	0
3	203	45.307	127.6	103	3	2	30	12	88	0
4	204	45.992	126.8	104	-3	2	30	12	88	0
5	205	46.661	127.7	105	20	2	30	12	88	0
6	206	48.080	127.2	106	-6	2	30	12	88	0
7	207	48.615	127.5	107	12	2	30	12	68	0
8	208	52.144	128.2	108	-5	2	30	12	48	0
9	209	52.638	128.3	109	2	2	30	12	48	0
10	210	53.375	128.3	110	22	2	30	12	48	0
11	211	54.089	128.1	111	24	2	30	12	48	0
12	212	54.596	127.9	112	-6	2	30	12	48	0
13	213	62.951	128.0	113	-10	2	30	12	48	0
14	214	66.958	127.6	114	-4	2	30	12	48	0
15	215	73.505	127.4	115	1	2	30	12	48	0
16	216	74.650	127.1	116	29	2	30	12	48	0
17	217	76.029	126.9	117	--		30	12	48	1
18	218	76.495	125.7	118	1	2	30	12	48	0
19	219	77.757	125.2	119	4		30	12	48	1
20	220	79.293	124.8	120	3	2	30	12	48	0

DKDAT FIELD DATA TABLE

MAINE - 1984 EXPERIMENT
SHOT NUMBER 4 SHOT POINT 1 TEAM 1
SHOT TIME: 269: 4: 7: 0.012

	LOC	DIST(KM)	AZIM	UNIT	CHRON	CHAN	C1	C2	C3	TAPE GRADE
1	101	102.528	132.9	1	14	2	30	12	88	0
2	221	103.299	132.3	2	0	1	30	12	68	0
3	103	104.096	132.4	3	11	2	30	12	68	0
4	104	104.165	131.9	4	-179	2	30	12	68	0/34
5	105	105.024	131.7	5	18	1	30	12	48	0
6	106	106.118	131.9	6	7	1	30	12	48	0
7	107	106.946	131.5	7	-17	1	30	12	48	0
8	108	108.217	131.8	8	10	1	30	12	48	0
9	109	109.167	131.5	9	59	2	30	12	48	0
10	110	109.941	131.8	10	-12	2	30	12	48	0
11	111	110.590	132.0	11	-17	2	30	12	48	0
12	112	111.321	131.8	12	13	2	30	12	48	0
13	113	112.151	131.7	13	12	2	30	12	48	0
14	114	112.679	131.2	14	-21	2	30	12	48	0
15	115	113.639	131.4	15	-99	2	30	12	48	0
16	116	114.436	131.5	16	-10	2	30	12	48	0
17	222	115.931	130.8	17	28	2	30	12	48	0
18	118	116.478	130.9	18	-12		30	12	48	1
19	119	117.067	131.1	19	12	2	30	12	48	0
20	120	117.597	131.3	20	-5	2	30	12	48	0

DKDAT FIELD DATA TABLE

MAINE - 1984 EXPERIMENT
SHOT NUMBER 4 SHOT POINT 1 TEAM 2
SHOT TIME: 269: 4: 7: 0.012

	LOC	DIST(KM)	AZIM	UNIT	CHRON	CHAN	C1	C2	C3	TAPE GRADE
1	121	118.802	131.7	21	-10	1	30	12	48	0
2	122	119.464	131.9	22	13	2	30	12	48	0
3	123	119.925	132.0	23	19	2	30	12	48	0
4	124	120.866	132.2	24	-5	2	30	12	48	0
5	125	121.601	132.3	25	6	2	30	12	48	0
6	126	122.147	132.0	26	9		30	12	48	1
7	127	123.227	131.9	27	7	1	30	12	48	0
8	128	124.063	131.8	28	-78	2	30	12	48	0
9	129	124.707	131.6	29	11	2	30	12	48	0
10	130	125.512	131.4	30	7	2	30	12	48	0
11	131	126.569	131.4	31	9	2	30	12	48	0
12	132	127.014	131.7	32	18	2	30	12	48	0
13	133	127.894	132.1	33	29	2	30	12	48	0
14	134	128.452	132.3	34	11	2	30	12	48	0
15	135	129.753	132.0	35	-32	1	30	12	48	0
16	136	130.411	131.8	36	1	2	30	12	48	0
17	137	131.385	131.9	37	0	1	30	12	48	0
18	138	131.973	131.5	38	3		30	12	48	3
19	139	132.657	131.3	39	4	1	30	12	48	0
20	140	133.455	131.0	40	6	2	30	12	48	0

DKDAT FIELD DATA TABLE

MAINE - 1984 EXPERIMENT
SHOT NUMBER 4 SHOT POINT 1 TEAM 3
SHOT TIME: 269: 4: 7: 0.012

	LOC	DIST(KM)	AZIM	UNIT	CHRON	CHAN	C1	C2	C3	TAPE GRADE
1	141	134.365	131.3	41	-9	2	30	12	68	0
2	142	135.218	131.4	42	9	2	30	12	68	0
3	143	136.166	131.1	43	0	2	30	12	88	0
4	144	136.624	131.0	44	43	2	30	12	88	0
5	145	137.423	131.0	45	2	2	30	12	88	0
6	146	138.035	131.0	46	-2	2	30	12	68	0
7	147	138.828	131.2	47	29		30	12	68	21/32
8	148	139.536	131.3	48	-12	2	30	12	48	0
9	149	140.008	131.6	49	11	2	30	12	48	0
10	150	140.845	131.9	50	-5	2	30	12	48	0
11	151	141.951	132.0	51	4	2	30	12	48	0
12	152	142.503	131.7	52	17	2	30	12	48	0
13	153	143.325	131.5	53	8	2	30	12	48	0
14	154	144.049	131.4	54	-12	2	30	12	48	0
15	155	144.907	131.4	55	8	2	30	12	48	0
16	156	145.576	131.3	56	18	2	30	12	48	0
17	157	146.272	131.1	57	6	2	30	12	48	0
18	158	146.992	131.2	58	-20	2	30	12	48	0
19	159	147.691	131.0	59	-4	2	30	12	48	0
20	160	148.403	130.8	60	-7	2	30	12	48	0

DKDAT FIELD DATA TABLE

MAINE - 1984 EXPERIMENT
SHOT NUMBER 4 SHOT POINT 1 TEAM 4
SHOT TIME: 269: 4: 7: 0.012

	LOC	DIST(KM)	AZIM	UNIT	CHRON	CHAN	C1	C2	C3	TAPE GRADE
1	161	149.559	130.9	61	14	2	30	12	48	0
2	162	149.856	131.2	62	9	2	30	12	48	0
3	163	151.193	131.1	63	10	2	30	12	48	0
4	164	152.209	130.9	64	16	2	30	12	48	0
5	165	152.291	130.7	65	-14	2	30	12	48	0/34
6	166	153.367	130.5	66	8	2	30	12	48	0
7	167	154.026	130.6	67	-9	2	30	12	68	0
8	168	154.786	130.7	68	-10	2	30	12	68	0
9	169	156.015	130.6	69	-9	2	30	12	68	0
10	170	156.662	130.6	70	30	2	30	12	88	0
11	171	157.462	130.6	71	-4	2	30	12	88	0
12	172	158.184	130.7	72	15	2	30	12	88	0
13	173	158.904	130.8	73	-12	2	30	12	88	0
14	174	159.922	130.7	74	38	2	30	12	68	0
15	175	160.655	130.7	75	14	2	30	12	68	0
16	176	161.641	130.8	76	7	2	30	12	68	0
17	177	162.401	130.7	77	6	2	30	12	68	0
18	178	163.242	130.5	78	-2	2	30	12	48	0
19	179	163.477	130.0	79	19	2	30	12	48	0
20	180	164.643	129.8	80	14	2	30	12	48	0

DKDAT FIELD DATA TABLE

MAINE - 1984 EXPERIMENT
SHOT NUMBER 4 SHOT POINT 1 TEAM 5
SHOT TIME: 269: 4: 7: 0.012

	LOC	DIST(KM)	AZIM	UNIT	CHRON	CHAN	C1	C2	C3	TAPE GRADE
1	181	165.679	129.9	81	1	2	30	12	48	0/34
2	182	165.866	130.4	82	-7	2	30	12	48	0
3	183	165.568	130.6	83	24	2	30	12	48	0
4	184	166.948	130.4	84	25	2	30	12	48	0
5	185	167.682	130.6	85	-18		30	12	48	17
6	186	168.661	130.9	86	2	2	30	12	48	0
7	187	169.536	130.7	87	8	2	30	12	48	0
8	188	170.225	130.5	88	-2	2	30	12	48	0
9	189	171.141	130.6	89	1		30	12	48	1
10	190	172.134	130.7	90	41	2	30	12	48	0
11	191	172.942	130.4	91	3	2	30	12	48	0
12	192	173.756	130.4	92	0	2	30	12	48	0
13	193	174.294	130.5	93	3	2	30	12	48	0
14	194	174.956	130.3	94	21	2	30	12	48	0
15	195	175.573	130.1	95	-7	2	30	12	48	0
16	196	176.512	130.1	96	-29	2	30	12	48	0
17	197	177.173	130.3	97	7	2	30	12	48	0
18	198	177.962	130.4	98	47		30	12	48	17
19	199	179.031	130.5	99	12	2	30	12	48	0
20	200	179.605	130.4	100	--		30	12	48	1

DKDAT FIELD DATA TABLE

MAINE - 1984 EXPERIMENT
SHOT NUMBER 4 SHOT POINT 1 TEAM 6
SHOT TIME: 269: 4: 7: 0.012

	LOC	DIST(KM)	AZIM	UNIT	CHRON	CHAN	C1	C2	C3	TAPE GRADE
1	201	180.428	130.4	101	19	2	30	12	68	0
2	202	181.064	130.3	102	9	2	30	12	68	0
3	203	181.775	130.2	103	3	2	30	12	88	0
4	204	182.421	130.0	104	-3	2	30	12	88	0
5	205	183.130	130.2	105	20	2	30	12	88	0
6	206	184.521	130.0	106	-6	2	30	12	88	0
7	207	185.068	130.1	107	12	2	30	12	68	0
8	208	188.621	130.3	108	-5	2	30	12	48	0
9	209	189.119	130.3	109	2	2	30	12	48	0
10	210	189.852	130.3	110	22	2	30	12	48	0
11	211	190.555	130.2	111	24	2	30	12	48	0
12	212	191.051	130.1	112	-6	2	30	12	48	0
13	213	199.386	130.1	113	-10	2	30	12	48	0
14	214	203.359	129.9	114	-4	2	30	12	48	0
15	215	209.878	129.8	115	1	2	30	12	48	0
16	216	210.998	129.6	116	29	2	30	12	48	0
17	217	212.355	129.5	117	--		30	12	48	1
18	218	212.721	129.1	118	1		30	12	48	12
19	219	213.930	128.9	119	4		30	12	48	1
20	220	215.410	128.7	120	3	2	30	12	48	0

DKDAT FIELD DATA TABLE

MAINE - 1984 EXPERIMENT
SHOT NUMBER 5 SHOT POINT 6 TEAM 1
SHOT TIME: 269: 5:33: 0.006

	LOC	DIST(KM)	AZIM	UNIT	CHRON	CHAN	C1	C2	C3	TAPE GRADE
1	101	55.966	306.8	1	15		30	12	88	21/32
2	221	55.095	307.8	2	0	2	30	12	68	0
3	103	54.307	307.6	3	12	1	30	12	68	0
4	104	54.168	308.5	4	-187	1	30	12	68	0/34
5	105	53.281	308.9	5	19	1	30	12	48	0
6	106	52.209	308.5	6	8	1	30	12	48	0
7	107	51.342	309.1	7	-18	2	30	12	48	0
8	108	50.096	308.6	8	10	1	30	12	48	0
9	109	49.118	309.0	9	62	2	30	12	48	0
10	110	48.379	308.4	10	-12	1	30	12	48	0
11	111	47.753	308.0	11	-18	1	30	12	48	0
12	112	47.005	308.2	12	13	2	30	12	48	0
13	113	46.163	308.3	13	13	1	30	12	48	0
14	114	45.574	309.6	14	-22	1	30	12	48	0
15	115	44.632	309.1	15	-104	1	30	12	48	0
16	116	43.841	308.9	16	-11	1	30	12	48	0
17	222	42.296	310.6	17	30	1	30	12	48	0
18	118	41.753	310.3	18	-13		30	12	48	1
19	119	41.173	309.8	19	12	1	30	12	48	0
20	120	40.660	309.2	20	-5	1	30	12	48	0

DKDAT FIELD DATA TABLE

MAINE - 1984 EXPERIMENT
SHOT NUMBER 5 SHOT POINT 6 TEAM 2
SHOT TIME: 269: 5:33: 0.006

	LOC	DIST(KM)	AZIM	UNIT	CHRON	CHAN	C1	C2	C3	TAPE GRADE
1	121	39.516	307.8	21	-10	1	30	12	48	0
2	122	38.886	307.2	22	14	1	30	12	48	0
3	123	38.438	307.0	23	20	1	30	12	48	0
4	124	37.544	306.2	24	-6	1	30	12	48	0
5	125	36.849	305.6	25	6	2	30	12	48	0
6	126	36.222	306.7	26	9		30	12	48	1
7	127	35.138	306.6	27	8	1	30	12	48	0
8	128	34.267	307.1	28	-81		30	12	48	3
9	129	33.595	307.6	29	11	1	30	12	48	0
10	130	32.757	308.2	30	7	1	30	12	48	0
11	131	31.695	308.3	31	9	1	30	12	48	0
12	132	31.304	307.0	32	18	1	30	12	48	0
13	133	30.523	305.3	33	31	1	30	12	48	0
14	134	30.047	304.1	34	12	1	30	12	48	0
15	135	28.650	305.2	35	-34	1	30	12	48	0
16	136	27.962	305.6	36	1	1	30	12	48	0
17	137	27.000	305.3	37	0	1	30	12	48	0
18	138	26.325	306.9	38	3	2	30	12	48	0
19	139	25.593	308.1	39	4	1	30	12	48	0
20	140	24.763	309.3	40	7	1	30	12	48	0

DKDAT FIELD DATA TABLE

MAINE - 1984 EXPERIMENT
SHOT NUMBER 5 SHOT POINT 6 TEAM 3
SHOT TIME: 269: 5:33: 0.006

	LOC	DIST(KM)	AZIM	UNIT	CHRON	CHAN	C1	C2	C3	TAPE GRADE
1	141	23.897	307.5	41	-10	1	30	12	68	0
2	142	23.052	307.1	42	9	1	30	12	68	0
3	143	22.062	308.5	43	0	1	30	12	88	0
4	144	21.590	309.1	44	45	1	30	12	88	0
5	145	20.789	309.1	45	2	1	30	12	88	0
6	146	20.176	309.1	46	-2	1	30	12	68	0
7	147	19.409	307.7	47	30		30	12	68	21/32
8	148	18.736	306.4	48	-13	1	30	12	48	0
9	149	18.353	304.0	49	11	1	30	12	48	0
10	150	17.653	301.3	50	-5	1	30	12	48	0
11	151	16.628	299.6	51	4	1	30	12	48	0
12	152	15.915	302.1	52	17	1	30	12	48	0
13	153	15.014	303.6	53	9	1	30	12	48	0
14	154	14.259	304.2	54	-13	1	30	12	48	0
15	155	13.408	303.7	55	9	1	30	12	48	0
16	156	12.694	305.0	56	19	1	30	12	48	0
17	157	11.962	306.3	57	7	1	30	12	48	0
18	158	11.252	305.5	58	-21	1	30	12	48	0
19	159	10.524	306.9	59	-4	1	30	12	48	0
20	160	9.779	310.0	60	-7	1	30	12	48	0

DKDAT FIELD DATA TABLE

MAINE - 1984 EXPERIMENT
SHOT NUMBER 5 SHOT POINT 6 TEAM 4
SHOT TIME: 269: 5:33: 0.006

	LOC	DIST(KM)	AZIM	UNIT	CHRON	CHAN	C1	C2	C3	TAPE GRADE
1	161	8.637	307.7	61	15	3	30	12	48	0
2	162	8.422	302.8	62	10	3	30	12	48	0
3	163	7.055	303.4	63	11	3	30	12	48	0
4	164	5.974	308.2	64	17	3	30	12	48	0
5	165	5.884	312.8	65	-14	3	30	12	48	0/34
6	166	4.834	317.7	66	8	3	30	12	48	0
7	167	4.165	317.0	67	-10	3	30	12	68	0
8	168	3.388	314.2	68	-10	3	30	12	68	0
9	169	2.173	319.1	69	-9	3	30	12	68	0
10	170	1.543	324.1	70	32	3	30	12	88	0
11	171	0.786	337.8	71	-4	3	30	12	88	0
12	172	0.032	77.1	72	16	3	30	12	88	5
13	173	0.746	139.5	73	-12	3	30	12	88	0
14	174	1.782	122.3	74	40	3	30	12	68	0
15	175	2.494	130.1	75	14	3	30	12	68	0
16	176	3.485	134.6	76	7	3	30	12	68	0
17	177	4.253	127.3	77	7	1	30	12	68	0
18	178	5.143	122.6	78	-2	3	30	12	48	0
19	179	5.808	107.4	79	20	3	30	12	48	0
20	180	7.022	108.5	80	15	3	30	12	48	0

DKDAT FIELD DATA TABLE

MAINE - 1984 EXPERIMENT
SHOT NUMBER 5 SHOT POINT 6 TEAM 5
SHOT TIME: 269: 5:33: 0.006

	LOC	DIST(KM)	AZIM	UNIT	CHRON	CHAN	C1	C2	C3	TAPE GRADE
1	181	7.949	112.2	81		1	30	12	48	0/34
2	182	7.778	123.8	82	-1	3	30	12	48	0
3	183	7.425	128.1	83	1	3	30	12	48	0
4	184	8.862	124.3	84	2	3	30	12	48	0
5	185	9.547	127.9	85	-1		30	12	48	17
6	186	10.510	132.3	86	3	3	30	12	48	0
7	187	11.391	129.8	87	4	3	30	12	48	0
8	188	12.104	127.5	88	-3	3	30	12	48	0
9	189	13.003	129.2	89	1		30	12	48	1
10	190	13.990	130.4	90	4	1	30	12	48	0
11	191	14.844	126.7	91	3	1	30	12	48	0
12	192	15.652	127.2	92	0	1	30	12	48	0
13	193	16.178	128.0	93	4	1	30	12	48	0
14	194	16.886	125.9	94	22	1	30	12	48	0
15	195	17.560	124.2	95	-7	1	30	12	48	0
16	196	18.493	124.6	96	-30	1	30	12	48	0
17	197	19.111	126.1	97	6		30	12	48	0
18	198	19.869	127.4	98	49		30	12	48	17
19	199	20.921	128.4	99	10	1	30	12	48	0
20	200	21.303	128.1	100	--		30	12	48	1

DKDAT FIELD DATA TABLE

MAINE - 1984 EXPERIMENT
SHOT NUMBER 5 SHOT POINT 6 TEAM 6
SHOT TIME: 269: 5:33: 0.006

	LOC	DIST(KM)	AZIM	UNIT	CHRON	CHAN	C1	C2	C3	TAPE GRADE
1	201	22.326	128.2	101	20	1	30	12	68	0
2	202	22.982	127.4	102	10	1	30	12	68	0
3	203	23.732	126.2	103	3	1	30	12	88	0
4	204	24.435	124.8	104	-3	1	30	12	88	0
5	205	25.084	126.5	105	21	1	30	12	88	0
6	206	26.512	125.7	106	-6	1	30	12	88	0
7	207	27.042	126.2	107	13	1	30	12	68	0
8	208	30.558	127.6	108	-6	1	30	12	48	0
9	209	31.051	127.8	109	2	2	30	12	48	0
10	210	31.789	127.8	110	23	1	30	12	48	0
11	211	32.505	127.4	111	25	1	30	12	48	0
12	212	33.014	127.1	112	-6	1	30	12	48	0
13	213	41.368	127.4	113	-11	2	30	12	48	0
14	214	45.381	126.8	114	-5	2	30	12	48	0
15	215	51.930	126.7	115	2	2	30	12	48	0
16	216	53.081	126.3	116	31	2	30	12	48	0
17	217	54.464	126.0	117	--		30	12	48	1
18	218	54.962	124.4	118	1	2	30	12	48	0
19	219	56.240	123.8	119	4		30	12	48	1
20	220	57.794	123.2	120	3	2	30	12	48	0

DKDAT FIELD DATA TABLE

MAINE - 1984 EXPERIMENT
SHOT NUMBER 6 SHOT POINT 4 TEAM 1
SHOT TIME: 269: 7: 5: 0.010

	LOC	DIST(KM)	AZIM	UNIT	CHRON	CHAN	C1	C2	C3	TAPE GRADE
1	101	0.044	319.7	1	16	3	30	12	88	5/34
2	221	1.223	79.7	2	0	3	30	12	68	0
3	103	1.781	102.2	3	13	3	30	12	68	0
4	104	2.368	85.3	4	-195	3	30	12	68	0
5	105	3.286	91.2	5	20	3	30	12	48	0
6	106	4.024	104.9	6	8	3	30	12	48	0
7	107	5.039	103.1	7	-19	3	30	12	48	0
8	108	6.042	112.2	8	11	3	30	12	48	0
9	109	7.094	111.3	9	65	3	30	12	48	0
10	110	7.668	117.1	10	-13	3	30	12	48	0
11	111	8.230	120.3	11	-18	3	30	12	48	0
12	112	8.995	119.8	12	14	3	30	12	48	0
13	113	9.846	119.8	13	14	3	30	12	48	0
14	114	10.632	114.7	14	-23	3	30	12	48	0
15	115	11.455	118.0	15	-109	3	30	12	48	0
16	116	12.210	119.4	16	-11	3	30	12	48	0
17	222	13.989	115.4	17	31	3	30	12	48	0
18	118	14.456	116.9	18	-13		30	12	48	1
19	119	14.947	118.7	19	13	1	30	12	48	0
20	120	15.383	120.6	20	-5	1	30	12	48	0

DKDAT FIELD DATA TABLE

MAINE - 1984 EXPERIMENT
SHOT NUMBER 6 SHOT POINT 4 TEAM 2
SHOT TIME: 269: 7: 5: 0.010

	LOC	DIST(KM)	AZIM	UNIT	CHRON	CHAN	C1	C2	C3	TAPE GRADE
1	121	16.424	124.5	21	-11	3	30	12	48	0
2	122	17.039	126.0	22	14	1	30	12	48	0
3	123	17.486	126.5	23	21	3	30	12	48	0
4	124	18.387	128.1	24	-6	1	30	12	48	0
5	125	19.100	129.1	25	6	1	30	12	48	0
6	126	19.702	127.1	26	9		30	12	48	1
7	127	20.786	127.2	27	8	3	30	12	48	0
8	128	21.657	126.4	28	-85	1	30	12	48	0
9	129	22.334	125.7	29	12	1	30	12	48	0
10	130	23.187	124.8	30	8	1	30	12	48	0
11	131	24.249	124.9	31	10	1	30	12	48	0
12	132	24.620	126.6	32	19	1	30	12	48	0
13	133	25.428	128.7	33	32	1	30	12	48	0
14	134	25.953	130.0	34	12	1	30	12	48	0
15	135	27.299	128.5	35	-35	1	30	12	48	0
16	136	27.976	128.0	36	2	1	30	12	48	0
17	137	28.945	128.3	37	0	1	30	12	48	0
18	138	29.598	126.8	38	4	2	30	12	48	0
19	139	30.340	125.8	39	4	1	30	12	48	0
20	140	31.197	124.9	40	7	1	30	12	48	0

DKDAT FIELD DATA TABLE

MAINE - 1984 EXPERIMENT
SHOT NUMBER 6 SHOT POINT 4 TEAM 3
SHOT TIME: 269: 7: 5: 0.010

	LOC	DIST(KM)	AZIM	UNIT	CHRON	CHAN	C1	C2	C3	TAPE GRADE
1	141	32.029	126.3	41	-10	1	30	12	68	0
2	142	32.871	126.6	42	10	1	30	12	68	0
3	143	33.874	125.8	43	0	1	30	12	88	0
4	144	34.359	125.4	44	47	2	30	12	88	0
5	145	35.157	125.5	45	2	1	30	12	88	0
6	146	35.769	125.6	46	-2	1	30	12	68	0
7	147	36.517	126.3	47	31		30	12	68	21/32
8	148	37.189	127.0	48	-14	1	30	12	48	0
9	149	37.606	128.2	49	12	2	30	12	48	0
10	150	38.397	129.4	50	-5	1	30	12	48	0
11	151	39.489	129.8	51	5	1	30	12	48	0
12	152	40.088	128.7	52	18	1	30	12	48	0
13	153	40.945	128.0	53	9	1	30	12	48	0
14	154	41.687	127.7	54	-13	1	30	12	48	0
15	155	42.544	127.8	55	9	1	30	12	48	0
16	156	43.239	127.4	56	20	1	30	12	48	0
17	157	43.963	127.0	57	7	1	30	12	48	0
18	158	44.676	127.1	58	-22	1	30	12	48	0
19	159	45.399	126.8	59	-4	1	30	12	48	0
20	160	46.162	126.1	60	-8	1	30	12	48	0

DKDAT FIELD DATA TABLE

MAINE - 1984 EXPERIMENT
SHOT NUMBER 6 SHOT POINT 4 TEAM 4
SHOT TIME: 269: 7: 5: 0.010

	LOC	DIST(KM)	AZIM	UNIT	CHRON	CHAN	C1	C2	C3	TAPE GRADE
1	161	47.287	126.7	61	15	1	30	12	48	0
2	162	47.528	127.5	62	10	1	30	12	48	0
3	163	48.884	127.3	63	12	1	30	12	48	0
4	164	49.951	126.7	64	17	1	30	12	48	0
5	165	50.073	126.1	65	-15	1	30	12	48	0/34
6	166	51.182	125.8	66	9	1	30	12	48	0
7	167	51.827	126.0	67	-10	1	30	12	68	0
8	168	52.564	126.3	68	-11	1	30	12	68	0
9	169	53.801	126.3	69	-10	1	30	12	68	0
10	170	54.450	126.3	70	33	1	30	12	88	0
11	171	55.250	126.4	71	-4	1	30	12	88	0
12	172	55.944	126.8	72	17	1	30	12	88	0
13	173	56.653	127.0	73	-13	2	30	12	88	0
14	174	57.700	126.7	74	41	1	30	12	68	0
15	175	58.414	127.0	75	15	2	30	12	68	0
16	176	59.380	127.3	76	8	1	30	12	68	0
17	177	60.176	126.9	77	7	2	30	12	68	0
18	178	61.053	126.5	78	-2	1	30	12	48	0
19	179	61.425	125.0	79	21	1	30	12	48	0
20	180	62.821	124.8	80	16	1	30	12	48	0

DKDAT FIELD DATA TABLE

MAINE - 1984 EXPERIMENT
SHOT NUMBER 6 SHOT POINT 4 TEAM 5
SHOT TIME: 269: 7: 5: 0.010

	LOC	DIST(KM)	AZIM	UNIT	CHRON	CHAN	C1	C2	C3	TAPE GRADE
1	181	63.641	125.0	81	1		30	12	48	17
2	182	63.691	126.5	82	-8	1	30	12	48	0
3	183	63.348	127.0	83	27	2	30	12	48	0
4	184	64.776	126.5	84	28	1	30	12	48	0
5	185	65.470	127.0	85	-20		30	12	48	17
6	186	66.397	127.7	86	2	1	30	12	48	0
7	187	67.303	127.3	87	9	1	30	12	48	0
8	188	68.027	126.9	88	-3	1	30	12	48	0
9	189	68.919	127.3	89	1		30	12	48	1
10	190	69.894	127.5	90	46	1	30	12	48	0
11	191	70.768	126.8	91	3	1	30	12	48	0
12	192	71.576	126.9	92	0	1	30	12	48	0
13	193	72.100	127.1	93	4	2	30	12	48	0
14	194	72.807	126.6	94	23	2	30	12	48	0
15	195	73.467	126.2	95	-7	1	30	12	48	0
16	196	74.404	126.3	96	-32	1	30	12	48	0
17	197	75.033	126.6	97	8	1	30	12	48	0
18	198	75.793	127.0	98	52		30	12	48	17
19	199	76.841	127.3	99	13	1	30	12	48	0
20	200	77.425	127.2	100	--		30	12	48	1

DKDAT FIELD DATA TABLE

MAINE - 1984 EXPERIMENT
SHOT NUMBER 6 SHOT POINT 4 TEAM 6
SHOT TIME: 269: 7: 5: 0.010

	LOC	DIST(KM)	AZIM	UNIT	CHRON	CHAN	C1	C2	C3	TAPE GRADE
1	201	78.246	127.2	101	21	1	30	12	68	0
2	202	78.905	127.0	102	10	2	30	12	68	0
3	203	79.654	126.6	103	3	1	30	12	88	0
4	204	80.214	126.2	104	-4	1	30	12	88	0
5	205	80.876	126.7	105	22	1	30	12	88	0
6	206	82.296	126.5	106	-6	1	30	12	88	0
7	207	82.829	126.6	107	13	1	30	12	68	0
8	208	86.344	127.1	108	-6	2	30	12	48	0
9	209	86.837	127.2	109	2	2	30	12	48	0
10	210	87.573	127.2	110	24	1	30	12	48	0
11	211	88.288	127.0	111	26	2	30	12	48	0
12	212	88.796	126.9	112	-6	2	30	12	48	0
13	213	97.137	127.1	113	-11	2	30	12	48	0
14	214	101.142	126.8	114	-5	2	30	12	48	0
15	215	107.680	126.8	115	2	2	30	12	48	0
16	216	108.825	126.6	116	32	1	30	12	48	0
17	217	110.203	126.4	117	--		30	12	48	1
18	218	110.668	125.6	118	1	2	30	12	48	0
19	219	111.924	125.3	119	4		30	12	48	1
20	220	113.453	125.0	120	3	2	30	12	48	0

DKDAT FIELD DATA TABLE

MAINE - 1984 EXPERIMENT
SHOT NUMBER 7 SHOT POINT 31 TEAM 1
SHOT TIME: 272: 4: 0: 0.020

	LOC	DIST(KM)	AZIM	UNIT	CHRON	CHAN	C1	C2	C3	TAPE GRADE
1	101	188.171	138.0	1	10	1	30	12	88	0/34
2	302	187.635	138.1	2	16	1	30	12	68	0
3	303	186.531	138.0	3	5	2	30	12	68	0
4	304	185.309	138.0	4	-42	1	30	12	48	0
5	305	184.665	138.3	5	8		30	12	48	1
6	306	183.625	138.3	6	4	1	30	12	48	0
7	307	182.395	138.2	7	1	1	30	12	48	0
8	308	180.950	138.2	8	14	1	30	12	48	0
9	309	179.891	138.3	9	35	1	30	12	48	0
10	310	179.237	138.3	10	9	1	30	12	48	0
11	311	178.196	138.4	11	0	1	30	12	48	0
12	312	177.042	138.5	12	9	1	30	12	48	0
13	313	176.033	138.2	13	7	1	30	12	48	0
14	314	174.444	138.2	14	10	1	30	12	48	0
15	315	173.647	138.3	15	-31	1	30	12	48	0
16	316	172.583	138.4	16	-4	1	30	12	48	0
17	317	171.509	138.6	17	26	1	30	12	48	0
18	318	170.262	138.7	18	-10	1	30	12	48	0
19	319	169.579	138.4	19	-29	1	30	12	68	0
20	320	168.608	138.6	20	5	1	30	12	68	0

DKDAT FIELD DATA TABLE

MAINE - 1984 EXPERIMENT
SHOT NUMBER 7 SHOT POINT 31 TEAM 2
SHOT TIME: 272: 4: 0: 0.020

	LOC	DIST(KM)	AZIM	UNIT	CHRON	CHAN	C1	C2	C3	TAPE GRADE
1	321	167.706	138.7	21	-15	1	30	12	68	0
2	322	166.779	138.6	22	15	1	30	12	68	0
3	323	165.625	138.7	23	31	1	30	12	68	0
4	324	164.805	138.8	24	6	1	30	12	48	0
5	325	163.663	138.9	25	33	1	30	12	48	0
6	326	162.577	138.7	26	4	1	30	12	48	0
7	327	162.018	138.9	27	14	1	30	12	48	0
8	328	161.329	139.0	28	-60	1	30	12	48	0
9	329	160.212	139.0	29	15	1	30	12	48	0
10	330	159.261	139.1	30	8		30	12	48	1
11	331	158.258	139.1	31	8	1	30	12	48	0
12	332	157.239	139.3	32	31	1	30	12	48	0
13	333	156.103	139.5	33	66	1	30	12	48	0
14	334	155.513	139.6	34	15	1	30	12	48	0
15	335	154.827	139.8	35	-24	1	30	12	48	0
16	336	154.093	140.1	36	8	1	30	12	48	0
17	337	152.699	140.3	37	12	1	30	12	48	0
18	338	151.955	140.1	38	4	1	30	12	48	0
19	339	150.721	140.2	39	0	1	30	12	48	0
20	340	149.786	139.9	40	10		30	12	48	1

DKDAT FIELD DATA TABLE

MAINE - 1984 EXPERIMENT
SHOT NUMBER 7 SHOT POINT 31 TEAM 3
SHOT TIME: 272: 4: 0: 0.020

	LOC	DIST(KM)	AZIM	UNIT	CHRON	CHAN	C1	C2	C3	TAPE GRADE
1	341	148.776	139.5	41	-22	1	30	12	48	0
2	342	147.919	139.3	42	13	1	30	12	48	0
3	343	146.694	139.1	43	10	1	30	12	48	0
4	344	145.209	138.9	44	63	1	30	12	68	0
5	345	144.405	139.0	45	3	1	30	12	68	0
6	346	143.437	138.9	46	21	1	30	12	88	0/34
7	347	142.380	138.6	47	45	1	30	12	68	0
8	348	141.452	138.5	48	5	1	30	12	68	0
9	349	140.179	138.4	49	18	2	30	12	48	0
10	350	139.189	138.3	50	2	1	30	12	48	0
11	351	138.481	138.4	51	20	1	30	12	48	0
12	352	137.515	138.6	52	35	1	30	12	48	0
13	353	136.858	139.1	53	12	1	30	12	48	0
14	354	136.138	139.7	54	-8	1	30	12	48	0
15	355	135.554	140.3	55	27	1	30	12	48	0
16	356	135.032	141.0	56	30	1	30	12	48	0
17	357	133.939	141.0	57	27	1	30	12	48	0
18	358	133.005	141.1	58	18		30	12	48	3
19	359	132.125	141.3	59	1	1	30	12	48	0
20	360	131.041	141.3	60	-5	1	30	12	48	0

DKDAT FIELD DATA TABLE

MAINE - 1984 EXPERIMENT
SHOT NUMBER 7 SHOT POINT 31 TEAM 4
SHOT TIME: 272: 4: 0: 0.020

	LOC	DIST(KM)	AZIM	UNIT	CHRON	CHAN	C1	C2	C3	TAPE GRADE
1	361	129.950	141.4	61	17	1	30	12	48	0
2	362	129.159	141.6	62	2	1	30	12	48	0
3	363	128.229	141.8	63	10	1	30	12	48	0
4	364	127.297	142.0	64	22		30	12	48	17
5	365	126.459	142.2	65	-2	3	30	12	48	0
6	366	125.372	142.3	66	18	1	30	12	48	0
7	367	124.275	142.3	67	11	1	30	12	48	0
8	368	123.606	142.3	68	-2	1	30	12	48	0
9	369	122.465	142.4	69	2	1	30	12	48	0
10	370	121.580	142.1	70	45	1	30	12	48	0
11	371	120.371	141.9	71	23	1	30	12	48	0
12	372	119.389	141.7	72	23	1	30	12	48	0
13	373	118.330	141.6	73	-20	3	30	12	48	0/36
14	374	117.370	141.2	74	1	3	30	12	48	0
15	375	116.432	141.2	75	19	3	30	12	48	0
16	376	115.376	141.2	76	8	3	30	12	68	0
17	377	114.240	141.0	77	11	2	30	12	68	0
18	378	113.775	141.5	78	-4	1	30	12	68	0
19	379	113.669	142.2	79	33	1	30	12	88	0
20	380	113.512	141.0	80	17	1	30	12	68	0

DKDAT FIELD DATA TABLE

MAINE - 1984 EXPERIMENT
SHOT NUMBER 7 SHOT POINT 31 TEAM 5
SHOT TIME: 272: 4: 0: 0.020

	LOC	DIST(KM)	AZIM	UNIT	CHRON	CHAN	C1	C2	C3	TAPE GRADE
1	381	112.578	140.9	81	-18		30	12	68	1
2	382	111.572	140.9	82	-6	1	30	12	48	0
3	383	110.660	141.2	83	30	1	30	12	48	0
4	384	109.937	141.5	84	34	1	30	12	48	0
5	385	109.086	141.9	85	19		30	12	48	17
6	386	108.336	141.9	86	-3	1	30	12	48	0
7	387	106.928	142.2	87	10	1	30	12	48	0
8	388	106.003	142.1	88	23	3	30	12	48	0
9	389	105.161	142.0	89	0	3	30	12	48	0
10	390	104.602	142.2	90	51	1	30	12	48	0
11	391	103.527	142.2	91	15	3	30	12	48	0
12	392	102.554	142.3	92	1	3	30	12	48	0
13	393	101.623	142.1	93	28	1	30	12	48	0
14	394	100.288	142.1	94	28	1	30	12	48	0
15	395	99.615	142.1	95	2	1	30	12	48	0
16	396	98.802	142.3	96	-3	1	30	12	48	0
17	397	97.529	142.4	97	5	1	30	12	48	0
18	398	96.698	142.6	98	8	1	30	12	48	0
19	399	95.721	142.6	99	23	1	30	12	48	0
20	400	94.672	142.7	100	16	1	30	12	48	0

DKDAT FIELD DATA TABLE

MAINE - 1984 EXPERIMENT
SHOT NUMBER 7 SHOT POINT 31 TEAM 6
SHOT TIME: 272: 4: 0: 0.020

	LOC	DIST(KM)	AZIM	UNIT	CHRON	CHAN	C1	C2	C3	TAPE GRADE
1	401	93.938	142.9	101	24	1	30	12	48	0
2	402	93.144	143.1	102	18	1	30	12	48	0
3	403	92.102	143.2	103	4	1	30	12	48	0
4	404	91.200	143.2	104	1	3	30	12	48	0
5	405	90.318	143.7	105	38	3	30	12	48	0
6	406	89.525	143.9	106	1	1	30	12	68	0
7	407	88.639	144.1	107	51		30	12	68	6
8	408	88.103	144.6	108	10	1	30	12	68	0
9	421	87.101	144.3	109	10	1	30	12	88	0
10	422	86.571	144.0	110	27	1	30	12	88	0
11	423	85.930	143.6	111	60	1	30	12	88	0
12	412	82.542	145.2	112	17	3	30	12	48	0
13	413	83.221	144.7	113	-11	1	30	12	48	0
14	424	84.217	144.5	114	7	1	30	12	68	0
15	415	85.338	143.3	115	13	1	30	12	68	0
16	416	143.283	139.1	116	45	1	30	12	88	0
17	417	168.173	138.3	117	-4	1	30	12	88	0
18	144	221.736	136.1	118	11	1	30	12	48	0/34
19	172	243.132	135.5	119	4	2	30	12	48	0/34
20	420	267.821	134.6	120	3	2	30	12	88	0

DKDAT FIELD DATA TABLE

MAINE - 1984 EXPERIMENT
SHOT NUMBER 8 SHOT POINT 37 TEAM 1
SHOT TIME: 272: 4: 2: 0.007

	LOC	DIST(KM)	AZIM	UNIT	CHRON	CHAN	C1	C2	C3	TAPE GRADE
1	101	80.910	306.8	1	10	1	30	12	88	0/34
2	302	81.523	306.5	2	16	1	30	12	68	0
3	303	82.551	306.9	3	5	2	30	12	68	0
4	304	83.702	307.2	4	-42	1	30	12	48	0
5	305	84.560	306.5	5	8		30	12	48	1
6	306	85.574	306.7	6	4	1	30	12	48	0
7	307	86.748	307.0	7	1	1	30	12	48	0
8	308	88.126	307.3	8	14	1	30	12	48	0
9	309	89.224	307.2	9	35	1	30	12	48	0
10	310	89.852	307.3	10	9	1	30	12	48	0
11	311	90.995	307.1	11	0	1	30	12	48	0
12	312	92.127	307.2	12	9	1	30	12	48	0
13	313	92.960	307.8	13	8	1	30	12	48	0
14	314	94.530	308.0	14	10	1	30	12	48	0
15	315	95.371	307.9	15	-31	1	30	12	48	0
16	316	96.493	307.8	16	-4	1	30	12	48	0
17	317	97.635	307.6	17	27	1	30	12	48	0
18	318	98.906	307.6	18	-10	1	30	12	48	0
19	319	99.439	308.1	19	-29	1	30	12	68	0
20	320	100.505	307.9	20	5	1	30	12	68	0/34

DKDAT FIELD DATA TABLE

MAINE - 1984 EXPERIMENT
SHOT NUMBER 8 SHOT POINT 37 TEAM 2
SHOT TIME: 272: 4: 2: 0.007

	LOC	DIST(KM)	AZIM	UNIT	CHRON	CHAN	C1	C2	C3	TAPE GRADE
1	321	101.415	307.9	21	-15	1	30	12	68	0
2	322	102.294	308.1	22	15	1	30	12	68	0
3	323	103.501	308.0	23	31	1	30	12	68	0
4	324	104.369	307.9	24	6	1	30	12	48	0
5	325	105.499	308.0	25	33	1	30	12	48	0
6	326	106.445	308.4	26	4	1	30	12	48	0
7	327	107.124	308.1	27	14	1	30	12	48	0
8	328	107.882	308.0	28	-60	1	30	12	48	0
9	329	108.971	308.1	29	15	2	30	12	48	0
10	330	109.928	308.2	30	8		30	12	48	1
11	331	110.926	308.2	31	8	1	30	12	48	0
12	332	112.075	308.0	32	31	2	30	12	48	0
13	333	113.287	307.8	33	66	2	30	12	48	0
14	334	113.904	307.8	34	15	1	30	12	48	0
15	335	114.692	307.6	35	-24	2	30	12	48	0
16	336	115.591	307.3	36	8	2	30	12	48	0
17	337	117.077	307.2	37	12	2	30	12	48	0
18	338	117.690	307.5	38	4	2	30	12	48	0
19	339	118.947	307.5	39	0	1	30	12	48	0
20	340	119.695	308.0	40	10		30	12	48	1

DKDAT FIELD DATA TABLE

MAINE - 1984 EXPERIMENT
SHOT NUMBER 8 SHOT POINT 37 TEAM 3
SHOT TIME: 272: 4: 2: 0.007

	LOC	DIST(KM)	AZIM	UNIT	CHRON	CHAN	C1 C2 C3	TAPE GRADE
1	341	120.468	308.5	41	-22	1	30 12 48	0
2	342	121.190	308.9	42	13	1	30 12 48	0
3	343	122.284	309.3	43	10	1	30 12 48	0
4	344	123.672	309.6	44	63	1	30 12 68	0
5	345	124.505	309.5	45	3	1	30 12 68	0
6	346	125.422	309.7	46	21	1	30 12 88	0/34
7	347	126.337	310.1	47	46	2	30 12 68	0
8	348	127.211	310.3	48	5	1	30 12 68	0
9	349	128.428	310.5	49	18	2	30 12 48	0
10	350	129.376	310.6	50	2	1	30 12 48	0
11	351	130.095	310.6	51	20	2	30 12 48	0
12	352	131.124	310.5	52	35	1	30 12 48	0
13	353	131.965	310.0	53	12	2	30 12 48	0
14	354	132.938	309.4	54	-8	1	30 12 48	0
15	355	133.808	308.9	55	27	1	30 12 48	0
16	356	134.698	308.2	56	30	2	30 12 48	0
17	357	135.786	308.3	57	27	1	30 12 48	0
18	358	136.724	308.3	58	18		30 12 48	3
19	359	137.677	308.2	59	1	2	30 12 48	0
20	360	138.757	308.3	60	-5	2	30 12 48	0

DKDAT FIELD DATA TABLE

MAINE - 1984 EXPERIMENT
SHOT NUMBER 8 SHOT POINT 37 TEAM 4
SHOT TIME: 272: 4: 2: 0.007

	LOC	DIST(KM)	AZIM	UNIT	CHRON	CHAN	C1 C2 C3	TAPE GRADE
1	361	139.873	308.3	61	17	1	30 12 48	0
2	362	140.765	308.2	62	2	1	30 12 48	0
3	363	141.769	308.1	63	10	1	30 12 48	0
4	364	142.805	308.0	64	22		30 12 48	17
5	365	143.717	307.9	65	-2	1	30 12 48	0
6	366	144.833	307.9	66	18	1	30 12 48	0
7	367	145.863	308.1	67	11	2	30 12 48	0
8	368	146.509	308.1	68	-2	1	30 12 48	0
9	369	147.660	308.2	69	2	2	30 12 48	0
10	370	148.376	308.5	70	45	3	30 12 48	0/36
11	371	149.442	308.7	71	23	1	30 12 48	0
12	372	150.323	308.9	72	23	1	30 12 48	0
13	373	151.302	309.1	73	-20	1	30 12 48	0
14	374	152.041	309.5	74	1	1	30 12 48	0
15	375	152.948	309.6	75	19	1	30 12 48	0/36
16	376	153.974	309.7	76	8	3	30 12 68	0/12
17	377	155.007	309.9	77	11	2	30 12 68	0
18	378	155.665	309.6	78	-4	2	30 12 68	0
19	379	156.100	309.1	79	33	2	30 12 88	0
20	380	155.720	310.0	80	17	1	30 12 68	0/34

DKDAT FIELD DATA TABLE

MAINE - 1984 EXPERIMENT
SHOT NUMBER 8 SHOT POINT 37 TEAM 5
SHOT TIME: 272: 4: 2: 0.007

	LOC	DIST(KM)	AZIM	UNIT	CHRON	CHAN	C1 C2 C3	TAPE GRADE
1	381	156.584	310.1	81	-18		30 12 68	1
2	382	157.592	310.2	82	-6	1	30 12 48	0
3	383	158.582	310.0	83	30	2	30 12 48	0
4	384	159.432	309.9	84	34	2	30 12 48	0
5	385	160.448	309.6	85	19		30 12 48	17
6	386	161.160	309.7	86	-3	2	30 12 48	0
7	387	162.679	309.6	87	10	1	30 12 48	0
8	388	163.511	309.8	88	23	1	30 12 48	0
9	389	164.304	309.9	89	0	1	30 12 48	0
10	390	164.933	309.8	90	51	2	30 12 48	0
11	391	165.966	309.9	91	15	1	30 12 48	0
12	392	166.964	309.9	92	1	1	30 12 48	0
13	393	167.784	310.1	93	28	2	30 12 48	0
14	394	169.095	310.2	94	28	2	30 12 48	0
15	395	169.775	310.2	95	2	2	30 12 48	0
16	396	170.623	310.2	96	-3	2	30 12 48	0
17	397	171.919	310.2	97	5	2	30 12 48	0
18	398	172.794	310.1	98	8	1	30 12 48	0
19	399	173.752	310.2	99	23	1	30 12 48	0
20	400	174.817	310.2	100	16	3	30 12 48	0/12

DKDAT FIELD DATA TABLE

MAINE - 1984 EXPERIMENT
SHOT NUMBER 8 SHOT POINT 37 TEAM 6
SHOT TIME: 272: 4: 2: 0.007

	LOC	DIST(KM)	AZIM	UNIT	CHRON	CHAN	C1 C2 C3	TAPE GRADE
1	401	175.584	310.2	101	24	2	30 12 48	0
2	402	176.464	310.1	102	18	2	30 12 48	0
3	403	177.497	310.2	103	4	2	30 12 48	0
4	404	178.381	310.2	104	1	2	30 12 48	0
5	405	179.427	310.0	105	38	1	30 12 48	0
6	406	180.283	310.0	106	1	1	30 12 68	0
7	407	181.232	310.0	107	51	2	30 12 68	6
8	408	181.917	309.8	108	10	1	30 12 68	0
9	421	182.762	310.0	109	10	2	30 12 88	0
10	422	183.175	310.2	110	27	2	30 12 88	0
11	423	183.661	310.4	111	60	2	30 12 88	0
12	412	187.547	309.9	112	17	2	30 12 48	0
13	413	186.690	310.1	113	-11	2	30 12 48	0
14	424	185.652	310.1	114	7	1	30 12 68	0
15	415	184.115	310.6	115	13	2	30 12 68	0
16	416	125.634	309.5	116	45	1	30 12 88	0
17	417	100.728	308.5	117	-4	1	30 12 88	0
18	144	46.651	307.8	118	11	1	30 12 48	0/34
19	172	25.053	306.6	119	4	1	30 12 48	0/34
20	420	0.003	360.0	120	3	3	30 12 88	0

DKDAT FIELD DATA TABLE

MAINE - 1984 EXPERIMENT
SHOT NUMBER 9 SHOT POINT 1 TEAM 1
SHOT TIME: 272: 4: 4: 0.011

	LOC	DIST(KM)	AZIM	UNIT	CHRON	CHAN	C1	C2	C3	TAPE GRADE
1	101	102.528	132.9	1	10	2	30	12	88	0/34
2	302	101.955	133.1	2	16	1	30	12	68	0
3	303	100.878	132.9	3	5	2	30	12	68	0
4	304	99.682	132.7	4	-43	1	30	12	48	0
5	305	98.940	133.3	5	8		30	12	48	1
6	306	97.905	133.2	6	4	1	30	12	48	0
7	307	96.692	133.1	7	1	1	30	12	48	0
8	308	95.270	132.9	8	14	1	30	12	48	0
9	309	94.187	133.0	9	35	1	30	12	48	0
10	310	93.542	132.9	10	9	2	30	12	48	0
11	311	92.448	133.2	11	0	1	30	12	48	0
12	312	91.298	133.2	12	9	2	30	12	48	0
13	313	90.369	132.6	13	8	2	30	12	48	0
14	314	88.783	132.5	14	10	2	30	12	48	0
15	315	87.958	132.7	15	-31	2	30	12	48	0
16	316	86.859	132.9	16	-5	1	30	12	48	0
17	317	85.746	133.1	17	27	2	30	12	48	0
18	318	84.481	133.2	18	-10	1	30	12	48	0
19	319	83.871	132.7	19	-29	1	30	12	68	0
20	320	82.846	133.0	20	5	2	30	12	68	0/34

DKDAT FIELD DATA TABLE

MAINE - 1984 EXPERIMENT
SHOT NUMBER 9 SHOT POINT 1 TEAM 2
SHOT TIME: 272: 4: 4: 0.011

	LOC	DIST(KM)	AZIM	UNIT	CHRON	CHAN	C1	C2	C3	TAPE GRADE
1	321	81.935	133.0	21	-15	1	30	12	68	0
2	322	81.028	132.8	22	15	2	30	12	68	0
3	323	79.945	133.0	23	31	1	30	12	68	0
4	324	79.094	133.2	24	6	1	30	12	48	0
5	325	77.951	133.1	25	33	1	30	12	48	0
6	326	76.936	132.6	26	4	1	30	12	48	0
7	327	76.306	133.0	27	14	1	30	12	48	0
8	328	75.576	133.3	28	-60	1	30	12	48	0
9	329	74.466	133.2	29	16	2	30	12	48	0
10	330	73.506	133.2	30	8		30	12	48	1
11	331	72.499	133.2	31	8	2	30	12	48	0
12	332	71.405	133.7	32	31	2	30	12	48	0
13	333	70.224	133.9	33	66	2	30	12	48	0
14	334	69.616	134.1	34	15	1	30	12	48	0
15	335	68.878	134.4	35	-24	1	30	12	48	0
16	336	68.069	135.0	36	8	1	30	12	48	0
17	337	66.627	135.4	37	12	1	30	12	48	0
18	338	65.930	134.9	38	4	1	30	12	48	0
19	339	64.676	135.1	39	0	1	30	12	48	0
20	340	63.817	134.3	40	10		30	12	48	1

DKDAT FIELD DATA TABLE

MAINE - 1984 EXPERIMENT
SHOT NUMBER 9 SHOT POINT 1 TEAM 3
SHOT TIME: 272: 4: 4: 0.011

	LOC	DIST(KM)	AZIM	UNIT	CHRON	CHAN	C1	C2	C3	TAPE GRADE
1	341	62.922	133.3	41	-22	1	30	12	48	0
2	342	62.139	132.7	42	13	1	30	12	48	0
3	343	60.994	132.0	43	10	1	30	12	48	0
4	344	59.575	131.5	44	64	1	30	12	68	0
5	345	58.744	131.6	45	3	1	30	12	68	0
6	346	57.813	131.3	46	21	1	30	12	88	0/34
7	347	56.875	130.4	47	46	1	30	12	68	0
8	348	55.997	130.0	48	5	1	30	12	68	0
9	349	54.779	129.5	49	18	2	30	12	48	0
10	350	53.836	129.1	50	2	1	30	12	48	0
11	351	53.115	129.1	51	20	1	30	12	48	0
12	352	52.080	129.5	52	35	1	30	12	48	0
13	353	51.242	130.6	53	12	1	30	12	48	0
14	354	50.315	132.1	54	-8	1	30	12	48	0
15	355	49.544	133.7	55	27	1	30	12	48	0
16	356	48.835	135.6	56	30	2	30	12	48	0
17	357	47.736	135.6	57	27	1	30	12	48	0
18	358	46.792	135.7	58	18		30	12	48	3
19	359	45.874	136.1	59	1	1	30	12	48	0
20	360	44.783	136.1	60	-5	1	30	12	48	0

DKDAT FIELD DATA TABLE

MAINE - 1984 EXPERIMENT
SHOT NUMBER 9 SHOT POINT 1 TEAM 4
SHOT TIME: 272: 4: 4: 0.011

	LOC	DIST(KM)	AZIM	UNIT	CHRON	CHAN	C1	C2	C3	TAPE GRADE
1	361	43.673	136.2	61	17	1	30	12	48	0
2	362	42.837	136.8	62	2	1	30	12	48	0
3	363	41.872	137.3	63	10	1	30	12	48	0
4	364	40.899	137.9	64	22		30	12	48	17
5	365	40.032	138.4	65	-2	1	30	12	48	0
6	366	38.928	138.6	66	19	1	30	12	48	0
7	367	37.841	138.3	67	11	2	30	12	48	0
8	368	37.174	138.3	68	-2	1	30	12	48	0
9	369	36.020	138.4	69	2	1	30	12	48	0
10	370	35.182	137.4	70	45	1	30	12	48	0
11	371	34.019	136.5	71	23	1	30	12	48	0
12	372	33.073	135.8	72	23	3	30	12	48	0
13	373	32.044	135.3	73	-20	1	30	12	48	0
14	374	31.205	133.5	74	1	1	30	12	48	0
15	375	30.282	133.1	75	19	3	30	12	48	0
16	376	29.240	132.8	76	8	1	30	12	68	0
17	377	28.177	131.7	77	11	1	30	12	68	0
18	378	27.566	133.5	78	-4	1	30	12	68	0
19	379	27.279	136.4	79	33	1	30	12	88	0
20	380	27.458	131.5	80	17	1	30	12	68	0/34

DKDAT FIELD DATA TABLE

MAINE - 1984 EXPERIMENT
SHOT NUMBER 9 SHOT POINT 1 TEAM 5
SHOT TIME: 272: 4: 4: 0.011

	LOC	DIST(KM)	AZIM	UNIT	CHRON	CHAN	C1 C2 C3	TAPE GRADE
1	381	26.582	130.6	81	-18		30 12 68	1
2	382	25.572	130.4	82	-6	1	30 12 48	0
3	383	24.586	131.1	83	30	1	30 12 48	0
4	384	23.755	132.4	84	34	1	30 12 48	0
5	385	22.783	134.1	85	19		30 12 48	17
6	386	22.053	133.6	86	-3	1	30 12 48	0
7	387	20.564	134.8	87	10	3	30 12 48	0
8	388	19.691	133.6	88	23	3	30 12 48	0
9	389	18.878	132.9	89	0	3	30 12 48	0
10	390	18.265	133.7	90	51	1	30 12 48	0
11	391	17.213	133.0	91	15	3	30 12 48	0
12	392	16.215	133.2	92	1	3	30 12 48	0
13	393	15.368	131.2	93	28	3	30 12 48	0
14	394	14.051	130.3	94	28	3	30 12 48	0
15	395	13.369	130.2	95	2	1	30 12 48	0
16	396	12.520	130.5	96	-3	1	30 12 48	0
17	397	11.222	130.3	97	5	3	30 12 48	0
18	398	10.347	130.9	98	8	3	30 12 48	0
19	399	9.386	129.9	99	23	3	30 12 48	0
20	400	8.319	129.5	100	16	3	30 12 48	0

DKDAT FIELD DATA TABLE

MAINE - 1984 EXPERIMENT
SHOT NUMBER 9 SHOT POINT 1 TEAM 6
SHOT TIME: 272: 4: 4: 0.011

	LOC	DIST(KM)	AZIM	UNIT	CHRON	CHAN	C1 C2 C3	TAPE GRADE
1	401	7.551	129.9	101	24	3	30 12 48	0
2	402	6.676	132.1	102	18	3	30 12 48	0
3	403	5.636	131.0	103	4	3	30 12 48	0
4	404	4.750	129.0	104	1	3	30 12 48	0
5	405	3.734	137.2	105	39	3	30 12 48	0
6	406	2.915	142.2	106	1	3	30 12 68	0
7	407	2.041	151.5	107	51		30 12 68	6
8	408	1.729	175.2	108	10	3	30 12 68	0
9	421	0.643	185.4	109	10	3	30 12 88	0
10	422	0.059	282.1	110	27	3	30 12 88	0
11	423	0.852	0.7	111	60	3	30 12 88	0
12	412	4.492	300.1	112	17	3	30 12 48	0
13	413	3.578	306.4	113	-11	3	30 12 48	0
14	424	2.539	305.6	114	7	3	30 12 68	0
15	415	1.629	2.4	115	13	3	30 12 68	0
16	416	57.612	131.6	116	45	1	30 12 88	0
17	417	82.525	132.2	117	-4	1	30 12 88	0
18	144	136.624	131.0	118	11	2	30 12 48	0/34
19	172	158.184	130.7	119	4	2	30 12 48	0/34
20	420	183.122	130.2	120	3	2	30 12 88	0

DKDAT FIELD DATA TABLE

MAINE - 1984 EXPERIMENT
SHOT NUMBER 10 SHOT POINT 2 TEAM 1
SHOT TIME: 272: 4: 6: 0.009

	LOC	DIST(KM)	AZIM	UNIT	CHRON	CHAN	C1 C2 C3	TAPE GRADE
1	101	75.447	131.6	1	10	2	30 12 88	0
2	302	74.865	131.9	2	16	1	30 12 68	0
3	303	73.795	131.6	3	5	2	30 12 68	0
4	304	72.608	131.3	4	-43	1	30 12 48	0
5	305	71.836	132.1	5	8		30 12 48	1
6	306	70.803	132.0	6	4	1	30 12 48	0
7	307	69.596	131.8	7	1	1	30 12 48	0
8	308	68.181	131.5	8	14	1	30 12 48	0
9	309	67.092	131.6	9	35	1	30 12 48	0
10	310	66.450	131.5	10	9	3	30 12 48	0
11	311	65.340	131.9	11	0	1	30 12 48	0
12	312	64.191	131.8	12	9	1	30 12 48	0
13	313	63.289	131.0	13	8	1	30 12 48	0
14	314	61.705	130.8	14	10	2	30 12 48	0
15	315	60.872	131.0	15	-31	1	30 12 48	0
16	316	59.763	131.2	16	-5	1	30 12 48	0
17	317	58.638	131.5	17	27	1	30 12 48	0
18	318	57.367	131.6	18	-10	3	30 12 48	0
19	319	56.783	130.8	19	-29	1	30 12 68	0
20	320	55.740	131.3	20	5	1	30 12 68	0/34

DKDAT FIELD DATA TABLE

MAINE - 1984 EXPERIMENT
SHOT NUMBER 10 SHOT POINT 2 TEAM 2
SHOT TIME: 272: 4: 6: 0.009

	LOC	DIST(KM)	AZIM	UNIT	CHRON	CHAN	C1 C2 C3	TAPE GRADE
1	321	54.827	131.3	21	-15	1	30 12 68	0
2	322	53.928	131.0	22	15	1	30 12 68	0
3	323	52.730	131.2	23	31	1	30 12 68	0
4	324	51.872	131.5	24	6	1	30 12 48	0
5	325	50.732	131.3	25	33	1	30 12 48	0
6	326	49.743	130.5	26	4	1	30 12 48	0
7	327	49.091	131.2	27	14	1	30 12 48	0
8	328	48.351	131.5	28	-60	1	30 12 48	0
9	329	47.246	131.3	29	16	2	30 12 48	0
10	330	46.286	131.3	30	8		30 12 48	1
11	331	45.280	131.2	31	8	1	30 12 48	0
12	332	44.166	132.0	32	31	2	30 12 48	0
13	333	42.974	132.4	33	66	2	30 12 48	0
14	334	42.364	132.5	34	15	1	30 12 48	0
15	335	41.614	133.1	35	-24	1	30 12 48	0
16	336	40.789	134.1	36	8	1	30 12 48	0
17	337	39.341	134.7	37	12	1	30 12 48	0
18	338	38.652	133.9	38	4	1	30 12 48	0
19	339	37.397	134.1	39	0	1	30 12 48	0
20	340	36.557	132.8	40	10		30 12 48	1

DKDAT FIELD DATA TABLE

MAINE - 1984 EXPERIMENT
SHOT NUMBER 10 SHOT POINT 2 TEAM 3
SHOT TIME: 272: 4: 6: 0.009

	LOC	DIST(KM)	AZIM	UNIT	CHRON	CHAN	C1	C2	C3	TAPE GRADE
1	341	35.702	131.0	41	-22	1	30	12	48	0
2	342	34.952	129.8	42	13	1	30	12	48	0
3	343	33.850	128.5	43	10	1	30	12	48	0
4	344	32.474	127.3	44	64	1	30	12	68	0
5	345	31.637	127.4	45	3	1	30	12	68	0
6	346	30.734	126.7	46	21	1	30	12	88	0/34
7	347	29.880	124.8	47	46	1	30	12	68	0
8	348	29.047	123.9	48	5	1	30	12	68	0
9	349	27.889	122.7	49	19	1	30	12	48	0
10	350	26.999	121.7	50	2	3	30	12	48	0
11	351	26.283	121.5	51	20	1	30	12	48	0
12	352	25.214	121.9	52	36	3	30	12	48	0
13	353	24.250	124.1	53	12	1	30	12	48	0
14	354	23.192	127.1	54	-8	1	30	12	48	0
15	355	22.319	130.4	55	27	1	30	12	48	0
16	356	21.547	134.6	56	30	1	30	12	48	0
17	357	20.447	134.6	57	27	1	30	12	48	0
18	358	19.503	134.6	58	18		30	12	48	3
19	359	18.581	135.6	59	1	1	30	12	48	0
20	360	17.490	135.6	60	-5	1	30	12	48	0

DKDAT FIELD DATA TABLE

MAINE - 1984 EXPERIMENT
SHOT NUMBER 10 SHOT POINT 2 TEAM 4
SHOT TIME: 272: 4: 6: 0.009

	LOC	DIST(KM)	AZIM	UNIT	CHRON	CHAN	C1	C2	C3	TAPE GRADE
1	361	16.378	136.0	61	17	3	30	12	48	0
2	362	15.543	137.6	62	2	3	30	12	48	0
3	363	14.585	138.9	63	10	1	30	12	48	0
4	364	13.630	140.9	64	22		30	12	48	17
5	365	12.785	142.6	65	-2	3	30	12	48	0
6	366	11.698	143.8	66	19	3	30	12	48	0
7	367	10.599	143.3	67	11	1	30	12	48	0
8	368	9.931	143.4	68	-2	3	30	12	48	0
9	369	8.793	144.7	69	2	3	30	12	48	0
10	370	7.906	141.0	70	45	3	30	12	48	0
11	371	6.724	137.1	71	23	3	30	12	48	0
12	372	5.786	133.2	72	23	3	30	12	48	0
13	373	4.787	128.7	73	-20	3	30	12	48	0
14	374	4.191	113.9	74	1	3	30	12	48	0
15	375	3.413	105.9	75	19	3	30	12	48	0
16	376	2.646	92.0	76	8	3	30	12	68	0
17	377	2.452	65.2	77	11	3	30	12	68	0
18	378	1.425	56.0	78	-4	3	30	12	68	0
19	379	0.024	270.0	79	34	3	30	12	88	0
20	380	2.375	48.0	80	17	3	30	12	68	0

DKDAT FIELD DATA TABLE

MAINE - 1984 EXPERIMENT
SHOT NUMBER 10 SHOT POINT 2 TEAM 5
SHOT TIME: 272: 4: 6: 0.009

	LOC	DIST(KM)	AZIM	UNIT	CHRON	CHAN	C1	C2	C3	TAPE GRADE
1	381	2.834	29.0	81	-18		30	12	68	1
2	382	3.259	11.6	82	-6	3	30	12	48	0
3	383	3.618	355.4	83	30	3	30	12	48	0
4	384	3.965	341.3	84	34	3	30	12	48	0
5	385	4.621	327.8	85	19		30	12	48	17
6	386	5.375	327.9	86	-3	3	30	12	48	0
7	387	6.763	321.3	87	10	3	30	12	48	0
8	388	7.688	323.7	88	23	3	30	12	48	0
9	389	8.533	324.3	89	0	3	30	12	48	0
10	390	9.090	321.8	90	52	3	30	12	48	0
11	391	10.164	322.2	91	15	3	30	12	48	0
12	392	11.142	321.1	92	1	3	30	12	48	0
13	393	12.071	323.1	93	28	3	30	12	48	0
14	394	13.406	322.8	94	28	3	30	12	48	0
15	395	14.080	322.4	95	2	1	30	12	48	0
16	396	14.897	321.4	96	-3	1	30	12	48	0
17	397	16.178	320.6	97	5	1	30	12	48	0
18	398	17.023	319.8	98	8	1	30	12	48	0
19	399	18.001	319.8	99	24	3	30	12	48	0
20	400	19.061	319.4	100	16	1	30	12	48	0

DKDAT FIELD DATA TABLE

MAINE - 1984 EXPERIMENT
SHOT NUMBER 10 SHOT POINT 2 TEAM 6
SHOT TIME: 272: 4: 6: 0.009

	LOC	DIST(KM)	AZIM	UNIT	CHRON	CHAN	C1	C2	C3	TAPE GRADE
1	401	19.810	318.9	101	24	1	30	12	48	0
2	402	20.643	317.8	102	18	1	30	12	48	0
3	403	21.690	317.8	103	4	1	30	12	48	0
4	404	22.591	318.0	104	1	1	30	12	48	0
5	405	23.562	316.3	105	39	1	30	12	48	0
6	406	24.397	315.7	106	1	1	30	12	68	0
7	407	25.331	315.2	107	51		30	12	68	6
8	408	25.973	314.0	108	10	1	30	12	68	0
9	421	26.878	315.4	109	10	2	30	12	88	0
10	422	27.344	316.3	110	27	1	30	12	88	0
11	423	27.911	317.6	111	60	1	30	12	88	0
12	412	31.634	314.1	112	17	1	30	12	48	0
13	413	30.826	315.3	113	-11	1	30	12	48	0
14	424	29.793	315.5	114	7	1	30	12	68	0
15	415	28.449	318.8	115	13	1	30	12	68	0
16	416	30.508	127.3	116	45	1	30	12	88	0
17	417	55.460	130.1	117	-4	1	30	12	88	0
18	144	109.532	129.7	118	11	2	30	12	48	0/33
19	172	131.107	129.6	119	4	2	30	12	48	0/33
20	420	156.080	129.1	120	3	2	30	12	88	0

DKDAT FIELD DATA TABLE

MAINE - 1984 EXPERIMENT
SHOT NUMBER 11 SHOT POINT 33 TEAM 1
SHOT TIME: 272: 4: 8: 0.010

	LOC	DIST(KM)	AZIM	UNIT	CHRON	CHAN	C1	C2	C3	TAPE GRADE
1	101	20.048	135.6	1	10	1	30	12	88	0
2	302	19.494	136.8	2	16	3	30	12	68	0
3	303	18.399	135.9	3	5	1	30	12	68	0
4	304	17.190	135.0	4	-43	3	30	12	48	0
5	305	16.507	138.6	5	9		30	12	48	1
6	306	15.466	138.6	6	4	3	30	12	48	0
7	307	14.237	138.0	7	1	3	30	12	48	0
8	308	12.795	137.2	8	14	3	30	12	48	0
9	309	11.729	138.5	9	35	3	30	12	48	0
10	310	11.075	138.2	10	9	3	30	12	48	0
11	311	10.041	141.5	11	0	3	30	12	48	0
12	312	8.889	142.0	12	9	3	30	12	48	0
13	313	7.872	136.8	13	8	3	30	12	48	0
14	314	6.281	136.8	14	10	3	30	12	48	0
15	315	5.479	139.7	15	-31	3	30	12	48	0
16	316	4.438	145.0	16	-5	3	30	12	48	0
17	317	3.460	154.3	17	27	3	30	12	48	0
18	318	2.389	168.1	18	-10	3	30	12	48	0
19	319	1.485	157.8	19	-30	3	30	12	68	0
20	320	1.140	206.7	20	5	3	30	12	68	0

DKDAT FIELD DATA TABLE

MAINE - 1984 EXPERIMENT
SHOT NUMBER 11 SHOT POINT 33 TEAM 2
SHOT TIME: 272: 4: 8: 0.010

	LOC	DIST(KM)	AZIM	UNIT	CHRON	CHAN	C1	C2	C3	TAPE GRADE
1	321	1.279	250.6	21	-15	3	30	12	68	0
2	322	1.740	282.4	22	15	3	30	12	68	0
3	323	2.921	290.0	23	31	3	30	12	68	0
4	324	3.798	291.8	24	6	3	30	12	48	0
5	325	4.861	297.5	25	33	3	30	12	48	0
6	326	5.727	307.1	26	4	3	30	12	48	0
7	327	6.438	302.4	27	14	3	30	12	48	0
8	328	7.222	300.9	28	-60	3	30	12	48	0
9	329	8.284	303.5	29	16	3	30	12	48	0
10	330	9.234	304.4	30	8		30	12	48	1
11	331	10.226	305.4	31	8	3	30	12	48	0
12	332	11.407	303.1	32	31	3	30	12	48	0
13	333	12.636	302.5	33	66	3	30	12	48	0
14	334	13.256	302.5	34	15	3	30	12	48	0
15	335	14.080	301.3	35	-24	3	30	12	48	0
16	336	15.048	299.3	36	8	3	30	12	48	0
17	337	16.553	299.2	37	12	3	30	12	48	0
18	338	17.089	301.6	38	4	3	30	12	48	0
19	339	18.337	302.1	39	0	3	30	12	48	0
20	340	19.022	305.1	40	10		30	12	48	1

DKDAT FIELD DATA TABLE

MAINE - 1984 EXPERIMENT
SHOT NUMBER 11 SHOT POINT 33 TEAM 3
SHOT TIME: 272: 4: 8: 0.010

	LOC	DIST(KM)	AZIM	UNIT	CHRON	CHAN	C1	C2	C3	TAPE GRADE
1	341	19.770	308.6	41	-22	3	30	12	48	0
2	342	20.509	310.7	42	13	3	30	12	48	0
3	343	21.642	312.7	43	10	3	30	12	48	0
4	344	23.076	314.1	44	64	1	30	12	68	0
5	345	23.901	313.8	45	3	3	30	12	68	0
6	346	24.845	314.4	46	21	1	30	12	88	0/34
7	347	25.847	316.3	47	46	1	30	12	68	0
8	348	26.764	317.0	48	5	1	30	12	68	0
9	349	28.028	317.6	49	19	1	30	12	48	0
10	350	29.015	318.0	50	2	1	30	12	48	0
11	351	29.726	317.8	51	20	1	30	12	48	0
12	352	30.708	316.9	52	36	1	30	12	48	0
13	353	31.439	314.8	53	12	1	30	12	48	0
14	354	32.321	312.3	54	-8	1	30	12	48	0
15	355	33.142	310.0	55	27	1	30	12	48	0
16	356	34.026	307.3	56	30	1	30	12	48	0
17	357	35.115	307.6	57	27	1	30	12	48	0
18	358	36.053	307.7	58	18		30	12	48	3
19	359	37.010	307.4	59	1	1	30	12	48	0
20	360	38.090	307.7	60	-5	1	30	12	48	0

DKDAT FIELD DATA TABLE

MAINE - 1984 EXPERIMENT
SHOT NUMBER 11 SHOT POINT 33 TEAM 4
SHOT TIME: 272: 4: 8: 0.010

	LOC	DIST(KM)	AZIM	UNIT	CHRON	CHAN	C1	C2	C3	TAPE GRADE
1	361	39.207	307.7	61	17	1	30	12	48	0
2	362	40.104	307.3	62	2	3	30	12	48	0
3	363	41.112	307.0	63	10	1	30	12	48	0
4	364	42.155	306.7	64	22		30	12	48	17
5	365	43.071	306.5	65	-2	3	30	12	48	0
6	366	44.188	306.6	66	19	3	30	12	48	0
7	367	45.213	307.1	67	11	1	30	12	48	0
8	368	45.857	307.3	68	-2	1	30	12	48	0
9	369	47.009	307.4	69	2	1	30	12	48	0
10	370	47.722	308.4	70	45	1	30	12	48	0
11	371	48.794	309.2	71	23	1	30	12	48	0
12	372	49.684	309.8	72	23	1	30	12	48	0
13	373	50.674	310.3	73	-20	1	30	12	48	0
14	374	51.446	311.5	74	1	1	30	12	48	0
15	375	52.363	311.7	75	19	1	30	12	48	0
16	376	53.400	311.9	76	8	1	30	12	68	0
17	377	54.460	312.5	77	11	2	30	12	68	0
18	378	55.083	311.6	78	-4	1	30	12	68	0
19	379	55.478	310.1	79	34	1	30	12	88	0
20	380	55.180	312.6	80	17	1	30	12	68	0/34

DKDAT FIELD DATA TABLE

MAINE - 1984 EXPERIMENT
SHOT NUMBER 11 SHOT POINT 33 TEAM 5
SHOT TIME: 272: 4: 8: 0.010

	LOC	DIST(KM)	AZIM	UNIT	CHRON	CHAN	C1 C2 C3	TAPE GRADE
1	381	56.066	313.0	81	-18		30 12 68	1
2	382	57.079	313.0	82	-6	1	30 12 48	0
3	383	58.055	312.7	83	30	1	30 12 48	0
4	384	58.882	312.2	84	35	1	30 12 48	0
5	385	59.874	311.5	85	19		30 12 48	17
6	386	60.595	311.7	86	-3	1	30 12 48	0
7	387	62.105	311.4	87	10	3	30 12 48	0
8	388	62.955	311.8	88	23	1	30 12 48	0
9	389	63.761	312.0	89	0	1	30 12 48	0
10	390	64.381	311.8	90	52	1	30 12 48	0
11	391	65.426	312.0	91	15	1	30 12 48	0
12	392	66.426	312.0	92	1	1	30 12 48	0
13	393	67.270	312.5	93	28	1	30 12 48	0
14	394	68.593	312.6	94	28	1	30 12 48	0
15	395	69.275	312.6	95	2	1	30 12 48	0
16	396	70.121	312.5	96	-3	1	30 12 48	0
17	397	71.420	312.5	97	5	1	30 12 48	0
18	398	72.291	312.4	98	8	1	30 12 48	0
19	399	73.258	312.5	99	24	1	30 12 48	0
20	400	74.326	312.5	100	16	1	30 12 48	0

DKDAT FIELD DATA TABLE

MAINE - 1984 EXPERIMENT
SHOT NUMBER 11 SHOT POINT 33 TEAM 6
SHOT TIME: 272: 4: 8: 0.010

	LOC	DIST(KM)	AZIM	UNIT	CHRON	CHAN	C1 C2 C3	TAPE GRADE
1	401	75.091	312.5	101	24	1	30 12 48	0
2	402	75.960	312.2	102	18	1	30 12 48	0
3	403	77.001	312.3	103	4	1	30 12 48	0
4	404	77.893	312.4	104	1	1	30 12 48	0
5	405	78.919	312.0	105	39	1	30 12 48	0
6	406	79.770	311.9	106	1	1	30 12 68	0
7	407	80.604	311.7	107	51		30 12 68	6
8	408	81.273	311.4	108	10	1	30 12 68	0
9	421	82.142	311.9	109	10	2	30 12 88	0
10	422	82.575	312.2	110	27	1	30 12 88	0
11	423	83.091	312.7	111	60	1	30 12 88	0
12	412	86.917	311.6	112	18	1	30 12 48	0
13	413	86.081	312.0	113	-11	1	30 12 48	0
14	424	85.044	312.0	114	7	1	30 12 68	0
15	415	83.574	313.1	115	13	1	30 12 68	0
16	416	25.033	313.7	116	45	1	30 12 88	0
17	417	0.000	180.0	117	-4	3	30 12 88	0
18	144	54.241	129.2	118	11	1	30 12 48	0/33
19	172	75.851	129.1	119	4	1	30 12 48	0/33
20	420	100.727	128.5	120	3	1	30 12 88	0

DKDAT FIELD DATA TABLE

MAINE - 1984 EXPERIMENT
SHOT NUMBER 12 SHOT POINT 3 TEAM 1
SHOT TIME: 272: 5:36: 0.010

	LOC	DIST(KM)	AZIM	UNIT	CHRON	CHAN	C1 C2 C3	TAPE GRADE
1	101	45.075	134.5	1	11	1	30 12 88	0
2	302	44.512	135.0	2	18	1	30 12 68	0
3	303	43.425	134.6	3	5	1	30 12 68	0
4	304	42.221	134.2	4	-47	1	30 12 48	0
5	305	41.505	135.6	5	9		30 12 48	1
6	306	40.466	135.6	6	4	3	30 12 48	0
7	307	39.245	135.3	7	1	3	30 12 48	0
8	308	37.813	134.9	8	16	1	30 12 48	0
9	309	36.735	135.2	9	39	1	30 12 48	0
10	310	36.086	135.1	10	10	1	30 12 48	0
11	311	35.009	135.9	11	0	1	30 12 48	0
12	312	33.854	135.9	12	10	1	30 12 48	0
13	313	32.897	134.4	13	8	1	30 12 48	0
14	314	31.307	134.3	14	11	1	30 12 48	0
15	315	30.488	134.8	15	-35	1	30 12 48	0
16	316	29.398	135.4	16	-5	1	30 12 48	0
17	317	28.298	136.2	17	30	3	30 12 48	0
18	318	27.039	136.5	18	-11	3	30 12 48	0
19	319	26.397	135.0	19	-33	1	30 12 68	0
20	320	25.391	136.1	20	5	1	30 12 68	0/34

DKDAT FIELD DATA TABLE

MAINE - 1984 EXPERIMENT
SHOT NUMBER 12 SHOT POINT 3 TEAM 2
SHOT TIME: 272: 5:36: 0.010

	LOC	DIST(KM)	AZIM	UNIT	CHRON	CHAN	C1 C2 C3	TAPE GRADE
1	321	24.482	136.4	21	-16	1	30 12 68	0
2	322	23.563	135.9	22	16	1	30 12 68	0
3	323	22.390	136.7	23	32	1	30 12 68	0
4	324	21.556	137.4	24	7	3	30 12 48	0
5	325	20.412	137.5	25	35	3	30 12 48	0
6	326	19.355	135.6	26	4	3	30 12 48	0
7	327	18.764	137.5	27	15	3	30 12 48	0
8	328	18.064	138.8	28	-63		30 12 48	3
9	329	16.946	138.7	29	16	1	30 12 48	0
10	330	15.993	139.0	30	8		30 12 48	1
11	331	14.988	139.3	31	8	1	30 12 48	0
12	332	13.980	142.3	32	32	1	30 12 48	0
13	333	12.874	144.6	33	70	1	30 12 48	0
14	334	12.302	145.7	34	16	3	30 12 48	0
15	335	11.686	148.7	35	-25	3	30 12 48	0
16	336	11.110	153.3	36	8	3	30 12 48	0
17	337	9.908	158.3	37	13	3	30 12 48	0
18	338	9.062	156.9	38	5	3	30 12 48	0
19	339	7.965	161.1	39	0	3	30 12 48	0
20	340	6.849	158.2	40	10		30 12 48	1

DKDAT FIELD DATA TABLE

MAINE - 1984 EXPERIMENT
SHOT NUMBER 12 SHOT POINT 3 TEAM 3
SHOT TIME: 272: 5:36: 0.010

	LOC	DIST(KM)	AZIM	UNIT	CHRON	CHAN	C1	C2	C3	TAPE GRADE
1	341	5.616	151.7	41	-23	3	30	12	48	0
2	342	4.675	146.8	42	13	3	30	12	48	0
3	343	3.413	139.8	43	10	3	30	12	48	0
4	344	1.966	128.3	44	67	3	30	12	68	0
5	345	1.132	132.3	45	3	3	30	12	68	0
6	346	0.378	73.7	46	22	3	30	12	88	0/34
7	347	1.417	9.8	47	48	3	30	12	68	0
8	348	2.276	355.8	48	7	3	30	12	68	0
9	349	3.493	346.6	49	19	3	30	12	48	0
10	350	4.477	343.0	50	2	3	30	12	48	0
11	351	5.087	338.4	51	21	3	30	12	48	0
12	352	5.889	330.8	52	37	3	30	12	48	0
13	353	6.431	319.2	53	13	3	30	12	48	0
14	354	7.317	307.8	54	-9	3	30	12	48	0
15	355	8.320	298.7	55	28	3	30	12	48	0
16	356	9.555	290.4	56	32	3	30	12	48	0
17	357	10.560	292.9	57	29	3	30	12	48	0
18	358	11.449	294.6	58	19	3	30	12	48	0
19	359	12.424	294.7	59	1	3	30	12	48	0
20	360	13.448	296.4	60	-6	3	30	12	48	0

DKDAT FIELD DATA TABLE

MAINE - 1984 EXPERIMENT
SHOT NUMBER 12 SHOT POINT 3 TEAM 4
SHOT TIME: 272: 5:36: 0.010

	LOC	DIST(KM)	AZIM	UNIT	CHRON	CHAN	C1	C2	C3	TAPE GRADE
1	361	14.539	297.4	61	18	1	30	12	48	0
2	362	15.474	296.9	62	2	3	30	12	48	0
3	363	16.494	297.0	63	10	1	30	12	48	0
4	364	17.567	296.7	64	23		30	12	48	17
5	365	18.495	296.7	65	-2		30	12	48	17
6	366	19.586	297.5	66	19	3	30	12	48	0
7	367	20.541	299.0	67	12	1	30	12	48	0
8	368	21.155	299.8	68	-2	1	30	12	48	0
9	369	22.282	300.5	69	2	1	30	12	48	0
10	370	22.908	302.6	70	47	1	30	12	48	0
11	371	23.912	304.5	71	24	1	30	12	48	0
12	372	24.762	305.9	72	25	1	30	12	48	0
13	373	25.723	307.0	73	-21	1	30	12	48	0
14	374	26.447	309.4	74	1	1	30	12	48	0
15	375	27.356	309.9	75	19	1	30	12	48	0/12
16	376	28.387	310.3	76	9	1	30	12	68	0
17	377	29.435	311.5	77	11	1	30	12	68	0
18	378	30.078	309.8	78	-5	2	30	12	68	0
19	379	30.528	307.2	79	35	1	30	12	88	0
20	380	30.154	311.7	80	18	1	30	12	68	0/34

DKDAT FIELD DATA TABLE

MAINE - 1984 EXPERIMENT
SHOT NUMBER 12 SHOT POINT 3 TEAM 5
SHOT TIME: 272: 5:36: 0.010

	LOC	DIST(KM)	AZIM	UNIT	CHRON	CHAN	C1	C2	C3	TAPE GRADE
1	381	31.036	312.4	81	-19		30	12	68	1
2	382	32.048	312.5	82	-6	1	30	12	48	0
3	383	33.027	311.9	83	31	1	30	12	48	0
4	384	33.862	311.0	84	36	1	30	12	48	0
5	385	34.869	309.9	85	20		30	12	48	17
6	386	35.584	310.3	86	-3	2	30	12	48	0
7	387	37.102	309.8	87	10	1	30	12	48	0
8	388	37.942	310.5	88	24	1	30	12	48	0
9	389	38.743	311.0	89	0	1	30	12	48	0
10	390	39.368	310.6	90	54	1	30	12	48	0
11	391	40.408	311.0	91	16	1	30	12	48	0
12	392	41.408	311.0	92	1	1	30	12	48	0
13	393	42.244	311.7	93	30	1	30	12	48	0
14	394	43.565	312.0	94	29	1	30	12	48	0
15	395	44.247	312.0	95	2	1	30	12	48	0
16	396	45.094	311.9	96	-3	2	30	12	48	0
17	397	46.393	311.9	97	6	2	30	12	48	0
18	398	47.265	311.7	98	9	1	30	12	48	0
19	399	48.230	311.9	99	25	1	30	12	48	0
20	400	49.298	311.9	100	17	1	30	12	48	0

DKDAT FIELD DATA TABLE

MAINE - 1984 EXPERIMENT
SHOT NUMBER 12 SHOT POINT 3 TEAM 6
SHOT TIME: 272: 5:36: 0.010

	LOC	DIST(KM)	AZIM	UNIT	CHRON	CHAN	C1	C2	C3	TAPE GRADE
1	401	50.064	311.8	101	25	1	30	12	48	0
2	402	50.937	311.5	102	19	1	30	12	48	0
3	403	51.976	311.6	103	4		30	12	48	6
4	404	52.866	311.8	104	1	1	30	12	48	0
5	405	53.898	311.2	105	40	1	30	12	48	0
6	406	54.752	311.0	106	1	1	30	12	68	0
7	407	55.700	310.9	107	54		30	12	68	6
8	408	56.378	310.4	108	11	1	30	12	68	0
9	421	57.236	311.1	109	10	2	30	12	88	0
10	422	57.663	311.6	110	28	1	30	12	88	0
11	423	58.172	312.2	111	63	1	30	12	88	0
12	412	62.024	310.8	112	18	1	30	12	48	0
13	413	61.177	311.3	113	-12	1	30	12	48	0
14	424	60.139	311.3	114	8	1	30	12	68	0
15	415	58.651	312.8	115	13	2	30	12	68	0
16	416	0.000	180.0	116	47	3	30	12	88	0
17	417	25.033	133.7	117	-4	1	30	12	88	0
18	144	79.214	130.6	118	11	1	30	12	48	0/33
19	172	100.672	130.3	119	4	2	30	12	48	0/33
20	420	125.633	129.5	120	3	1	30	12	88	0

DKDAT FIELD DATA TABLE

MAINE - 1984 EXPERIMENT
SHOT NUMBER 13 SHOT POINT 34 TEAM 1
SHOT TIME: 272: 5:38: 0.009

	LOC	DIST(KM)	AZIM	UNIT	CHRON	CHAN	C1 C2 C3	TAPE GRADE
1	101	0.029	255.8	1	11	3	30 12 88	0/34
2	302	0.712	279.3	2	18	3	30 12 68	0
3	303	1.668	311.4	3	5	3	30 12 68	0
4	304	2.878	318.8	4	-47	3	30 12 48	0
5	305	3.688	301.6	5	10		30 12 48	1
6	306	4.691	305.5	6	4	3	30 12 48	0
7	307	5.873	309.5	7	1	3	30 12 48	0
8	308	7.283	312.6	8	16	3	30 12 48	0
9	309	8.372	311.4	9	40	3	30 12 48	0
10	310	9.014	312.3	10	10	3	30 12 48	0
11	311	10.132	309.6	11	0	3	30 12 48	0
12	312	11.276	310.4	12	10	1	30 12 48	0
13	313	12.193	314.7	13	8	1	30 12 48	0
14	314	13.784	314.9	14	11	1	30 12 48	0
15	315	14.604	314.0	15	-35	1	30 12 48	0
16	316	15.704	312.9	16	-5	3	30 12 48	0
17	317	16.826	311.7	17	30	3	30 12 48	0
18	318	18.096	311.5	18	-11	3	30 12 48	0
19	319	18.697	313.8	19	-33	3	30 12 68	0
20	320	19.725	312.4	20	5	1	30 12 68	0/34

DKDAT FIELD DATA TABLE

MAINE - 1984 EXPERIMENT
SHOT NUMBER 13 SHOT POINT 34 TEAM 2
SHOT TIME: 272: 5:38: 0.009

	LOC	DIST(KM)	AZIM	UNIT	CHRON	CHAN	C1 C2 C3	TAPE GRADE
1	321	20.638	312.3	21	-16	1	30 12 68	0
2	322	21.543	313.0	22	16	1	30 12 68	0
3	323	22.735	312.4	23	32	1	30 12 68	0
4	324	23.591	311.8	24	7	3	30 12 48	0
5	325	24.732	312.0	25	35	1	30 12 48	0
6	326	25.742	313.7	26	4	3	30 12 48	0
7	327	26.374	312.4	27	15	1	30 12 48	0
8	328	27.113	311.7	28	-63		30 12 48	3
9	329	28.218	312.0	29	16	1	30 12 48	0
10	330	29.178	312.0	30	8		30 12 48	1
11	331	30.185	312.1	31	8	1	30 12 48	0
12	332	31.301	311.0	32	32	2	30 12 48	0
13	333	32.502	310.5	33	70	2	30 12 48	0
14	334	33.116	310.4	34	16	1	30 12 48	0
15	335	33.890	309.6	35	-25	1	30 12 48	0
16	336	34.771	308.6	36	8	1	30 12 48	0
17	337	36.255	308.2	37	13	1	30 12 48	0
18	338	36.884	309.1	38	5	1	30 12 48	0
19	339	38.144	309.1	39	0	1	30 12 48	0
20	340	38.926	310.4	40	10		30 12 48	1

DKDAT FIELD DATA TABLE

MAINE - 1984 EXPERIMENT
SHOT NUMBER 13 SHOT POINT 34 TEAM 3
SHOT TIME: 272: 5:38: 0.009

	LOC	DIST(KM)	AZIM	UNIT	CHRON	CHAN	C1 C2 C3	TAPE GRADE
1	341	39.764	312.1	41	-23	1	30 12 48	0
2	342	40.538	313.1	42	13	1	30 12 48	0
3	343	41.694	314.1	43	10	1	30 12 48	0
4	344	43.136	314.8	44	67	1	30 12 68	0
5	345	43.959	314.6	45	3	2	30 12 68	0
6	346	44.907	314.9	46	22	1	30 12 88	0/34
7	347	45.909	316.0	47	48	1	30 12 68	0
8	348	46.822	316.3	48	7	1	30 12 68	0
9	349	48.083	316.7	49	19	2	30 12 48	0
10	350	49.065	317.0	50	2	1	30 12 48	0
11	351	49.778	316.9	51	21	2	30 12 48	0
12	352	50.767	316.4	52	37	1	30 12 48	0
13	353	51.501	315.1	53	13	1	30 12 48	0
14	354	52.366	313.6	54	-9	1	30 12 48	0
15	355	53.149	312.1	55	28	1	30 12 48	0
16	356	53.965	310.4	56	32	2	30 12 48	0
17	357	55.060	310.5	57	29	1	30 12 48	0
18	358	56.002	310.5	58	19	1	30 12 48	0
19	359	56.949	310.3	59	1	1	30 12 48	0
20	360	58.035	310.4	60	-6	2	30 12 48	0

DKDAT FIELD DATA TABLE

MAINE - 1984 EXPERIMENT
SHOT NUMBER 13 SHOT POINT 34 TEAM 4
SHOT TIME: 272: 5:38: 0.009

	LOC	DIST(KM)	AZIM	UNIT	CHRON	CHAN	C1 C2 C3	TAPE GRADE
1	361	59.153	310.4	61	18	1	30 12 48	0
2	362	60.035	310.0	62	2	1	30 12 48	0
3	363	61.034	309.8	63	10	1	30 12 48	0
4	364	62.063	309.5	64	23		30 12 48	17
5	365	62.971	309.3	65	-2		30 12 48	17
6	366	64.090	309.4	66	19	1	30 12 48	0
7	367	65.132	309.7	67	12	2	30 12 48	0
8	368	65.784	309.8	68	-2	1	30 12 48	0
9	369	66.939	309.9	69	2	1	30 12 48	0
10	370	67.682	310.5	70	47	1	30 12 48	0
11	371	68.776	311.0	71	24	1	30 12 48	0
12	372	69.681	311.4	72	25	1	30 12 48	0
13	373	70.682	311.8	73	-21	1	30 12 48	0
14	374	71.477	312.6	74	1	1	30 12 48	0
15	375	72.397	312.8	75	20	3	30 12 48	12
16	376	73.437	312.9	76	9	1	30 12 68	0
17	377	74.505	313.3	77	11	1	30 12 68	0
18	378	75.115	312.6	78	-5	2	30 12 68	0
19	379	75.482	311.6	79	35	2	30 12 88	0
20	380	75.227	313.4	80	18	1	30 12 68	0/34

DKDAT FIELD DATA TABLE

MAINE - 1984 EXPERIMENT
SHOT NUMBER 13 SHOT POINT 34 TEAM 5
SHOT TIME: 272: 5:38: 0.009

	LOC	DIST(KM)	AZIM	UNIT	CHRON	CHAN	C1 C2 C3	TAPE GRADE
1	381	76.117	313.7	81	-19		30 12 68	1
2	382	77.130	313.7	82	-6	1	30 12 48	0
3	383	78.103	313.4	83	31	1	30 12 48	0
4	384	78.923	313.0	84	36	1	30 12 48	0
5	385	79.904	312.5	85	20		30 12 48	17
6	386	80.523	312.7	86	-3	2	30 12 48	0
7	387	82.023	312.4	87	10	1	30 12 48	0
8	388	82.882	312.7	88	24	1	30 12 48	0
9	389	83.691	312.9	89	0	1	30 12 48	0
10	390	84.306	312.7	90	54	2	30 12 48	0
11	391	85.354	312.8	91	16	1	30 12 48	0
12	392	86.351	312.8	92	1	1	30 12 48	0
13	393	87.203	313.2	93	30	1	30 12 48	0
14	394	88.526	313.3	94	29	1	30 12 48	0
15	395	89.208	313.3	95	2	2	30 12 48	0
16	396	90.051	313.2	96	-3	2	30 12 48	0
17	397	91.347	313.2	97	6	2	30 12 48	0
18	398	92.216	313.1	98	9	1	30 12 48	0
19	399	93.183	313.2	99	25	1	30 12 48	0
20	400	94.250	313.2	100	17	1	30 12 48	0

DKDAT FIELD DATA TABLE

MAINE - 1984 EXPERIMENT
SHOT NUMBER 13 SHOT POINT 34 TEAM 6
SHOT TIME: 272: 5:38: 0.009

	LOC	DIST(KM)	AZIM	UNIT	CHRON	CHAN	C1 C2 C3	TAPE GRADE
1	401	95.012	313.1	101	26	2	30 12 48	0
2	402	95.877	312.9	102	19	1	30 12 48	0
3	403	96.917	313.0	103	4	1	30 12 48	0
4	404	97.810	313.1	104	1		30 12 48	17
5	405	98.826	312.7	105	40	1	30 12 48	0
6	406	99.673	312.6	106	1	1	30 12 68	0
7	407	100.616	312.5	107	54		30 12 68	17
8	408	101.278	312.2	108	11	1	30 12 68	0
9	421	102.155	312.6	109	10	2	30 12 88	0
10	422	102.594	312.8	110	28	2	30 12 88	0
11	423	103.115	313.2	111	63	2	30 12 88	0
12	412	106.926	312.3	112	18	2	30 12 48	0
13	413	106.096	312.6	113	-12	2	30 12 48	0
14	424	105.060	312.7	114	8	1	30 12 68	0
15	415	103.603	313.6	115	13	2	30 12 68	0
16	416	45.091	314.5	116	47	1	30 12 88	0
17	417	20.063	315.5	117	-4	1	30 12 88	0
18	144	34.382	125.4	118	11	1	30 12 48	0/34
19	172	55.969	126.8	119	4	1	30 12 48	0/34
20	420	.80.890	126.8	120	3	1	30 12 88	0

DKDAT FIELD DATA TABLE

MAINE - 1984 EXPERIMENT
SHOT NUMBER 14 SHOT POINT 31 TEAM 1
SHOT TIME: 278: 4: 0: 0.020

	LOC	DIST(KM)	AZIM	UNIT	CHRON	CHAN	C1 C2 C3	TAPE GRADE
1	501	0.385	191.0	1	25	3	30 12 88	0
2	502	1.045	205.9	2	25	3	30 12 68	0
3	503	1.628	207.1	3	14	3	30 12 68	0
4	504	2.451	215.5	4	-98	3	30 12 68	0
5	505	3.438	205.7	5	21	3	30 12 48	0
6	506	3.885	182.1	6	8	3	30 12 48	0
7	507	4.920	164.6	7	13	3	30 12 48	0
8	508	5.458	163.2	8	32		30 12 48	1
9	509	6.180	151.2	9	22	3	30 12 48	0
10	510	7.343	150.6	10	18	3	30 12 48	0
11	511	7.994	148.5	11	15	3	30 12 48	0
12	512	8.372	144.4	12	20	3	30 12 48	0
13	513	8.989	143.2	13	20	3	30 12 48	0
14	514	9.875	141.0	14	24	3	30 12 48	0
15	515	10.787	140.3	15	-76	3	30 12 48	0
16	516	11.519	144.3	16	-9	3	30 12 48	0
17	517	12.373	147.5	17	31	3	30 12 48	0
18	518	12.805	151.4	18	-20	3	30 12 48	0
19	519	13.223	154.7	19	-67	3	30 12 48	0
20	520	15.262	142.6	20	9	3	30 12 48	0

DKDAT FIELD DATA TABLE

MAINE - 1984 EXPERIMENT
SHOT NUMBER 14 SHOT POINT 31 TEAM 2
SHOT TIME: 278: 4: 0: 0.020

	LOC	DIST(KM)	AZIM	UNIT	CHRON	CHAN	C1 C2 C3	TAPE GRADE
1	521	15.179	147.6	21	-20	3	30 12 48	0
2	522	15.928	151.8	22	14	3	30 12 48	0
3	523	16.391	155.0	23	32	3	30 12 48	0
4	524	16.980	158.6	24	4	3	30 12 48	0
5	525	17.915	158.9	25	33	3	30 12 48	0
6	526	18.849	157.6	26	2	3	30 12 48	0
7	527	19.938	156.0	27	10	3	30 12 48	0
8	528	20.772	154.8	28	-62	3	30 12 48	0
9	529	21.337	154.0	29	15	3	30 12 48	0
10	530	22.051	153.3	30	9	3	30 12 48	0
11	531	22.794	152.4	31	8	3	30 12 48	0
12	532	23.581	150.9	32	43	3	30 12 48	0
13	533	24.203	150.8	33	64	3	30 12 48	0
14	534	24.996	152.0	34	16	3	30 12 48	0
15	535	25.739	153.8	35	-33	3	30 12 48	0
16	536	26.380	154.7	36	9	1	30 12 48	0
17	537	27.035	156.7	37	10	3	30 12 48	0/34
18	538	36.723	153.1	38	4	1	30 12 48	0
19	539	37.575	152.3	39	-2	1	30 12 48	0
20	540	38.377	151.7	40	9	3	30 12 48	0

DKDAT FIELD DATA TABLE

MAINE - 1984 EXPERIMENT
SHOT NUMBER 14 SHOT POINT 31 TEAM 3
SHOT TIME: 278: 4: 0: 0.020

	LOC	DIST(KM)	AZIM	UNIT	CHRON	CHAN	C1	C2	C3	TAPE GRADE
1	541	26.966	141.8	41	-21	3	30	12	48	0
2	542	27.483	143.1	42	11	3	30	12	48	0
3	543	28.050	144.3	43	11	1	30	12	48	0
4	544	28.609	145.2	44	34	1	30	12	48	0
5	545	29.226	145.1	45	3	2	30	12	48	0
6	546	30.002	144.6	46	25	3	30	12	48	0
7	547	30.904	144.7	47	3	1	30	12	48	0
8	548	31.677	145.7	48	16	1	30	12	48	0
9	549	32.321	146.1	49	17	1	30	12	48	0
10	550	33.004	146.2	50	1	3	30	12	48	0
11	551	33.933	146.7	51	24	1	30	12	48	0
12	552	34.749	149.3	52	5		30	12	48	1
13	553	35.180	150.1	53	9	1	30	12	48	0
14	554	35.824	151.9	54	-5	1	30	12	48	0
15	555	46.923	151.8	55	25	1	30	12	88	0
16	556	39.170	151.3	56	25	1	30	12	48	0
17	557	39.192	148.8	57	27	1	30	12	48	0/34
18	558	39.933	151.6	58	15	1	30	12	48	0
19	559	40.450	150.6	59	2	1	30	12	48	0
20	560	41.258	150.1	60	-4	3	30	12	48	0

DKDAT FIELD DATA TABLE

MAINE - 1984 EXPERIMENT
SHOT NUMBER 14 SHOT POINT 31 TEAM 4
SHOT TIME: 278: 4: 0: 0.020

	LOC	DIST(KM)	AZIM	UNIT	CHRON	CHAN	C1	C2	C3	TAPE GRADE
1	561	41.881	149.9	61	16	1	30	12	48	0
2	562	42.540	149.8	62	0	1	30	12	48	0
3	563	43.312	149.7	63	9	1	30	12	48	0
4	564	44.263	149.3	64	28	1	30	12	48	0
5	565	44.842	149.0	65	1	1	30	12	68	0
6	566	45.597	148.7	66	13	1	30	12	68	0
7	567	46.290	148.4	67	0	3	30	12	68	0
8	568	46.974	148.1	68	15	1	30	12	48	0/34
9	569	47.546	147.9	69	2	3	30	12	48	0
10	570	48.255	147.6	70	47	3	30	12	48	0
11	571	49.046	147.1	71	42	3	30	12	48	0
12	572	49.560	146.5	72	23	3	30	12	48	0
13	573	50.297	146.4	73	-20	3	30	12	48	0
14	574	50.838	146.2	74	1	1	30	12	48	0
15	575	51.831	145.9	75	19	1	30	12	48	0
16	576	53.202	146.7	76	5	3	30	12	48	0
17	577	53.862	147.7	77	12	1	30	12	48	0
18	578	54.711	147.7	78	0	1	30	12	48	0
19	579	55.477	148.2	79	29	1	30	12	48	0
20	580	56.221	148.3	80	16	1	30	12	48	0

DKDAT FIELD DATA TABLE

MAINE - 1984 EXPERIMENT
SHOT NUMBER 14 SHOT POINT 31 TEAM 5
SHOT TIME: 278: 4: 0: 0.020

	LOC	DIST(KM)	AZIM	UNIT	CHRON	CHAN	C1	C2	C3	TAPE GRADE
1	581	56.853	148.0	81	-20	1	30	12	48	0
2	582	57.790	147.3	82	-6	1	30	12	48	0
3	583	58.638	147.2	83	33	1	30	12	48	0
4	584	59.132	147.3	84	37	3	30	12	48	0
5	585	59.891	147.4	85	21		30	12	48	17
6	586	60.703	147.6	86	-5	1	30	12	48	0
7	587	61.636	147.7	87	8	1	30	12	48	0
8	588	62.138	147.1	88	24	1	30	12	48	0
9	589	62.771	147.0	89	0	1	30	12	48	0
10	590	63.547	146.9	90	58	3	30	12	48	0
11	591	64.475	146.3	91	103	3	30	12	48	0
12	592	65.278	146.2	92	0	3	30	12	48	0
13	593	66.014	145.8	93	-203		30	12	48	17
14	594	66.734	146.0	94	30	3	30	12	48	0
15	595	67.597	146.3	95	0	3	30	12	48	0
16	596	68.248	146.8	96	6	3	30	12	48	0
17	597	68.952	145.9	97	6	3	30	12	48	0
18	598	70.000	145.9	98	-5		30	12	48	1
19	599	70.576	146.0	99	26	1	30	12	48	0
20	600	71.142	146.5	100	18	1	30	12	48	0

DKDAT FIELD DATA TABLE

MAINE - 1984 EXPERIMENT
SHOT NUMBER 14 SHOT POINT 31 TEAM 6
SHOT TIME: 278: 4: 0: 0.020

	LOC	DIST(KM)	AZIM	UNIT	CHRON	CHAN	C1	C2	C3	TAPE GRADE
1	601	72.129	146.6	101	25	1	30	12	48	0
2	602	72.947	147.0	102	18	1	30	12	48	0
3	603	72.691	144.8	103	4	3	30	12	48	0
4	604	73.569	145.5	104	1	3	30	12	48	0
5	605	74.245	145.6	105	39	3	30	12	48	0
6	606	75.036	145.6	106	0	3	30	12	48	0
7	607	75.541	145.3	107	51		30	12	48	17
8	608	76.457	145.2	108	6	1	30	12	48	0
9	609	77.050	145.0	109	8	1	30	12	48	0
10	610	77.909	145.2	110	27	3	30	12	48	0
11	611	78.580	145.5	111	60	3	30	12	48	0
12	612	79.399	145.9	112	21	1	30	12	48	0
13	613	80.270	146.0	113	-12	3	30	12	48	0
14	614	80.841	145.5	114	8	3	30	12	48	0
15	615	81.270	146.6	115	10	1	30	12	48	0
16	412	82.542	145.2	116	50	1	30	12	68	0/34
17	413	83.221	144.7	117	6	1	30	12	68	0/34
18	424	84.217	144.5	118	36	3	30	12	68	0/34
19	415	85.338	143.3	119	10	1	30	12	88	0/34
20	423	85.930	143.6	120	8	1	30	12	88	0/34

DKDAT FIELD DATA TABLE

MAINE - 1984 EXPERIMENT
SHOT NUMBER 15 SHOT POINT 7 TEAM 1
SHOT TIME: 278: 4: 3: 0.009

	LOC	DIST(KM)	AZIM	UNIT	CHRON	CHAN	C1	C2	C3	TAPE GRADE
1	501	267.611	314.6	1	25	2	30	12	88	0/34
2	502	267.498	314.4	2	25	2	30	12	68	0
3	503	267.353	314.3	3	14	2	30	12	68	0
4	504	267.473	314.1	4	-98	2	30	12	68	0/34
5	505	266.765	313.9	5	21	2	30	12	48	0
6	506	265.247	314.0	6	8	2	30	12	48	0
7	507	263.606	314.1	7	13	2	30	12	48	0
8	508	263.079	314.1	8	32		30	12	48	1
9	509	261.931	314.3	9	22	1	30	12	48	0
10	510	260.801	314.2	10	18	2	30	12	48	0
11	511	260.102	314.2	11	15	2	30	12	48	0
12	512	259.603	314.3	12	20	2	30	12	48	0
13	513	258.964	314.3	13	20	2	30	12	48	0
14	514	258.034	314.4	14	24	2	30	12	48	0
15	515	257.116	314.4	15	-76	2	30	12	48	0
16	516	256.511	314.2	16	-9	2	30	12	48	0
17	517	255.820	314.0	17	31	2	30	12	48	0
18	518	255.648	313.8	18	-20	2	30	12	48	0/34
19	519	255.515	313.6	19	-67	2	30	12	48	0
20	520	252.760	314.2	20	9	2	30	12	48	0/34

DKDAT FIELD DATA TABLE

MAINE - 1984 EXPERIMENT
SHOT NUMBER 15 SHOT POINT 7 TEAM 2
SHOT TIME: 278: 4: 3: 0.009

	LOC	DIST(KM)	AZIM	UNIT	CHRON	CHAN	C1	C2	C3	TAPE GRADE
1	521	253.112	313.9	21	-20	2	30	12	48	0
2	522	252.720	313.6	22	14	2	30	12	48	0
3	523	252.605	313.3	23	32	2	30	12	48	0/34
4	524	252.509	313.1	24	4	2	30	12	48	0
5	525	251.712	312.9	25	34	2	30	12	48	0
6	526	250.685	312.9	26	2	2	30	12	48	0
7	527	249.466	313.0	27	10	2	30	12	48	0
8	528	248.540	313.0	28	-62	2	30	12	48	0
9	529	247.910	313.0	29	15	2	30	12	48	0
10	530	247.137	313.0	30	9	2	30	12	48	0
11	531	246.324	313.0	31	8	2	30	12	48	0
12	532	245.382	313.1	32	43	2	30	12	48	0
13	533	244.783	313.0	33	64	2	30	12	48	0
14	534	244.198	312.9	34	16	2	30	12	48	0
15	535	243.797	312.6	35	-33	2	30	12	48	0
16	536	243.345	312.5	36	9	2	30	12	48	0
17	537	243.139	312.2	37	10	1	30	12	48	0/12/34
18	538	233.477	311.7	38	4	2	30	12	48	0
19	539	232.480	311.8	39	-2	2	30	12	48	0
20	540	231.606	311.8	40	9	2	30	12	48	0

DKDAT FIELD DATA TABLE

MAINE - 1984 EXPERIMENT
SHOT NUMBER 15 SHOT POINT 7 TEAM 3
SHOT TIME: 278: 4: 3: 0.009

	LOC	DIST(KM)	AZIM	UNIT	CHRON	CHAN	C1	C2	C3	TAPE GRADE
1	541	241.169	313.8	41	-21	2	30	12	48	0
2	542	240.755	313.7	42	11	2	30	12	48	0
3	543	240.312	313.5	43	11	2	30	12	48	0
4	544	239.859	313.4	44	34	2	30	12	48	0
5	545	239.238	313.4	45	3	2	30	12	48	0
6	546	238.432	313.4	46	26	2	30	12	48	0
7	547	237.559	313.3	47	3	2	30	12	48	0
8	548	236.926	313.2	48	16	2	30	12	48	0
9	549	236.349	313.1	49	17	2	30	12	48	0
10	550	235.707	313.0	50	1	2	30	12	48	0
11	551	234.869	312.9	51	24	2	30	12	48	0
12	552	234.514	312.5	52	5		30	12	48	1
13	553	234.270	312.3	53	9	2	30	12	48	0
14	554	234.035	312.0	54	-5	2	30	12	48	0
15	555	223.653	311.0	55	25	2	30	12	88	0/12/33
16	556	230.757	311.8	56	26	2	30	12	48	0
17	557	230.180	312.2	57	27	2	30	12	48	0
18	558	230.111	311.7	58	15	2	30	12	48	0/34
19	559	229.381	311.8	59	2	2	30	12	48	0
20	560	228.518	311.8	60	-4	1	30	12	48	0/12/37

DKDAT FIELD DATA TABLE

MAINE - 1984 EXPERIMENT
SHOT NUMBER 15 SHOT POINT 7 TEAM 4
SHOT TIME: 278: 4: 3: 0.009

	LOC	DIST(KM)	AZIM	UNIT	CHRON	CHAN	C1	C2	C3	TAPE GRADE
1	561	227.865	311.8	61	16	2	30	12	48	0
2	562	227.228	311.8	62	0	2	30	12	48	0
3	563	226.472	311.8	63	9	2	30	12	48	0
4	564	225.472	311.8	64	28	2	30	12	48	0
5	565	224.861	311.8	65	1	2	30	12	68	0
6	566	224.065	311.8	66	13	2	30	12	68	0
7	567	223.332	311.8	67	0	2	30	12	68	0
8	568	222.603	311.8	68	15	2	30	12	48	0
9	569	222.002	311.8	69	2	2	30	12	48	0
10	570	221.267	311.8	70	47	2	30	12	48	0
11	571	220.391	311.8	71	42	2	30	12	48	0
12	572	219.755	311.9	72	24	2	30	12	48	0/36
13	573	219.016	311.9	73	-20	2	30	12	48	0
14	574	218.451	311.9	74	1	2	30	12	48	0
15	575	217.413	311.9	75	19	2	30	12	48	0
16	576	216.287	311.7	76	5	2	30	12	48	0/12/37
17	577	215.930	311.4	77	12	2	30	12	48	0
18	578	215.119	311.3	78	0	2	30	12	48	0
19	579	214.514	311.1	79	29	2	30	12	48	0
20	580	213.829	311.1	80	16	2	30	12	48	0

DKDAT FIELD DATA TABLE

MAINE - 1984 EXPERIMENT
SHOT NUMBER 15 SHOT POINT 7 TEAM 5
SHOT TIME: 278: 4: 3: 0.009

	LOC	DIST(KM)	AZIM	UNIT	CHRON	CHAN	C1 C2 C3	TAPE GRADE
1	581	213.164	311.1	81	-20	2	30 12 48	0
2	582	212.044	311.2	82	-6	2	30 12 48	0
3	583	211.212	311.1	83	33	2	30 12 48	0
4	584	210.772	311.1	84	37	2	30 12 48	0
5	585	210.058	311.0	85	21		30 12 48	17
6	586	209.372	310.9	86	-5	2	30 12 48	0
7	587	208.501	310.8	87	8	2	30 12 48	0
8	588	207.843	310.9	88	24	2	30 12 48	0
9	589	207.182	310.9	89	0	2	30 12 48	0
10	590	206.429	310.8	90	58	1	30 12 48	0
11	591	205.327	311.0	91	103	1	30 12 48	0
12	592	204.546	310.9	92	0	1	30 12 48	0
13	593	203.703	311.0	93	-203		30 12 48	17
14	594	203.067	310.9	94	30	2	30 12 48	0
15	595	202.336	310.7	95	0	2	30 12 48	0
16	596	201.889	310.5	96	6	2	30 12 48	0
17	597	200.920	310.7	97	6	2	30 12 48	0
18	598	199.902	310.7	98	-5		30 12 48	1
19	599	199.395	310.6	99	26	1	30 12 48	0
20	600	199.010	310.4	100	18	2	30 12 48	0

DKDAT FIELD DATA TABLE

MAINE - 1984 EXPERIMENT
SHOT NUMBER 15 SHOT POINT 7 TEAM 6
SHOT TIME: 278: 4: 3: 0.009

	LOC	DIST(KM)	AZIM	UNIT	CHRON	CHAN	C1 C2 C3	TAPE GRADE
1	601	198.112	310.3	101	25	2	30 12 48	0
2	602	197.479	310.1	102	18	2	30 12 48	0
3	603	196.952	310.9	103	4	2	30 12 48	0
4	604	196.334	310.5	104	1	1	30 12 48	0
5	605	195.725	310.4	105	39	1	30 12 48	0
6	606	194.946	310.4	106	0	1	30 12 48	0
7	607	194.375	310.5	107	51	1	30 12 48	5
8	608	193.456	310.4	108	6	2	30 12 48	0
9	609	192.808	310.5	109	8	2	30 12 48	0
10	610	192.047	310.3	110	27	1	30 12 48	0
11	611	191.516	310.2	111	60	1	30 12 48	0
12	612	190.893	309.9	112	21	2	30 12 48	0
13	613	190.029	309.8	113	-12	2	30 12 48	0
14	614	189.296	310.0	114	8	1	30 12 48	0/34
15	615	189.343	309.5	115	10	2	30 12 48	0
16	412	187.545	309.9	116	50	2	30 12 68	0/34
17	413	186.688	310.1	117	6	2	30 12 68	0/34
18	424	185.650	310.1	118	36	1	30 12 68	0/34
19	415	184.113	310.6	119	10	2	30 12 88	0/34
20	423	183.659	310.4	120	8	2	30 12 88	0/34

DKDAT FIELD DATA TABLE

MAINE - 1984 EXPERIMENT
SHOT NUMBER 16 SHOT POINT 44 TEAM 1
SHOT TIME: 278: 4: 5: 0.007

	LOC	DIST(KM)	AZIM	UNIT	CHRON	CHAN	C1 C2 C3	TAPE GRADE
1	501	187.911	317.9	1	25	2	30 12 88	0/34
2	502	187.757	317.7	2	25	2	30 12 68	0
3	503	187.577	317.5	3	14	2	30 12 68	0
4	504	187.645	317.2	4	-98	2	30 12 68	0/34
5	505	186.888	317.0	5	21	2	30 12 48	0
6	506	185.393	317.1	6	8	2	30 12 48	0
7	507	183.777	317.3	7	13	2	30 12 48	0
8	508	183.242	317.2	8	32		30 12 48	1
9	509	182.146	317.5	9	22		30 12 48	17
10	510	181.000	317.5	10	18	2	30 12 48	0
11	511	180.308	317.5	11	15	2	30 12 48	0
12	512	179.840	317.7	12	20	2	30 12 48	0
13	513	179.208	317.7	13	20	2	30 12 48	0
14	514	178.294	317.8	14	24	2	30 12 48	0
15	515	177.378	317.8	15	-76	2	30 12 48	0
16	516	176.718	317.6	16	-9	2	30 12 48	0
17	517	175.977	317.3	17	32	2	30 12 48	0
18	518	175.746	317.0	18	-20	2	30 12 48	0
19	519	175.562	316.7	19	-67	2	30 12 48	0
20	520	172.958	317.6	20	9	2	30 12 48	0

DKDAT FIELD DATA TABLE

MAINE - 1984 EXPERIMENT
SHOT NUMBER 16 SHOT POINT 44 TEAM 2
SHOT TIME: 278: 4: 5: 0.007

	LOC	DIST(KM)	AZIM	UNIT	CHRON	CHAN	C1 C2 C3	TAPE GRADE
1	521	173.229	317.1	21	-20	2	30 12 48	0
2	522	172.758	316.7	22	14		30 12 48	17
3	523	172.584	316.4	23	32	2	30 12 48	0
4	524	172.419	316.0	24	4	2	30 12 48	0
5	525	171.596	315.8	25	34	2	30 12 48	0
6	526	170.569	315.8	26	2	2	30 12 48	0
7	527	169.354	315.9	27	10	2	30 12 48	0
8	528	168.433	315.9	28	-62	2	30 12 48	0
9	529	167.807	315.9	29	15	2	30 12 48	0
10	530	167.036	316.0	30	9	2	30 12 48	0
11	531	166.227	316.0	31	8	1	30 12 48	5
12	532	165.305	316.1	32	43	2	30 12 48	0
13	533	164.697	316.1	33	64	2	30 12 48	0
14	534	164.071	315.8	34	16	1	30 12 48	0
15	535	163.613	315.5	35	-33	1	30 12 48	0
16	536	163.130	315.3	36	9	2	30 12 48	0
17	537	162.864	314.9	37	10	1	30 12 48	0/34
18	538	153.109	314.3	38	4	2	30 12 48	0
19	539	152.123	314.4	39	-2	2	30 12 48	0
20	540	151.252	314.5	40	9	1	30 12 48	0

DKDAT FIELD DATA TABLE

MAINE - 1984 EXPERIMENT
SHOT NUMBER 16 SHOT POINT 44 TEAM 3
SHOT TIME: 278: 4: 5: 0.007

	LOC	DIST(KM)	AZIM	UNIT	CHRON	CHAN	C1	C2	C3	TAPE GRADE
1	541	161.290	317.3	41	-21	2	30	12	48	0
2	542	160.834	317.1	42	11	2	30	12	48	0
3	543	160.347	316.9	43	12	2	30	12	48	0
4	544	159.859	316.7	44	34	2	30	12	48	0
5	545	159.237	316.7	45	3	2	30	12	48	0
6	546	158.436	316.7	46	26	2	30	12	48	0
7	547	157.550	316.6	47	3	2	30	12	48	0
8	548	156.875	316.4	48	16	2	30	12	48	0
9	549	156.277	316.3	49	17	2	30	12	48	0
10	550	155.621	316.2	50	1	2	30	12	48	0
11	551	154.756	316.1	51	24	2	30	12	48	0
12	552	154.302	315.4	52	5		30	12	48	1
13	553	154.022	315.2	53	9	2	30	12	48	0
14	554	153.719	314.7	54	-5	2	30	12	48	0
15	555	143.156	313.4	55	25	2	30	12	88	0/12/33
16	556	150.405	314.5	56	26	2	30	12	48	0
17	557	149.917	315.1	57	27	1	30	12	48	0
18	558	149.736	314.3	58	15	2	30	12	48	0
19	559	149.033	314.5	59	2	1	30	12	48	0
20	560	148.173	314.6	60	-4	1	30	12	48	0/36

DKDAT FIELD DATA TABLE

MAINE - 1984 EXPERIMENT
SHOT NUMBER 16 SHOT POINT 44 TEAM 4
SHOT TIME: 278: 4: 5: 0.007

	LOC	DIST(KM)	AZIM	UNIT	CHRON	CHAN	C1	C2	C3	TAPE GRADE
1	561	147.519	314.6	61	16	2	30	12	48	0
2	562	146.875	314.5	62	0	2	30	12	48	0
3	563	146.110	314.5	63	9	2	30	12	48	0
4	564	145.112	314.5	64	28	2	30	12	48	0
5	565	144.502	314.5	65	1	2	30	12	68	0
6	566	143.707	314.5	66	13	1	30	12	68	0
7	567	142.977	314.6	67	0	1	30	12	68	0
8	568	142.251	314.6	68	15	2	30	12	48	0
9	569	141.652	314.6	69	2	1	30	12	48	0
10	570	140.917	314.6	70	47	1	30	12	48	0
11	571	140.052	314.7	71	42	1	30	12	48	0
12	572	139.438	314.9	72	24	1	30	12	48	0
13	573	138.695	314.9	73	-20	1	30	12	48	0
14	574	138.132	314.9	74	1	2	30	12	48	0
15	575	137.098	315.0	75	19	2	30	12	48	0
16	576	135.913	314.5	76	5	1	30	12	48	0
17	577	135.496	314.1	77	12	2	30	12	48	0
18	578	134.673	314.0	78	0	2	30	12	48	0
19	579	134.037	313.7	79	29	1	30	12	48	0
20	580	133.338	313.6	80	16	1	30	12	48	0

DKDAT FIELD DATA TABLE

MAINE - 1984 EXPERIMENT
SHOT NUMBER 16 SHOT POINT 44 TEAM 5
SHOT TIME: 278: 4: 5: 0.007

	LOC	DIST(KM)	AZIM	UNIT	CHRON	CHAN	C1	C2	C3	TAPE GRADE
1	581	132.674	313.6	81	-20	1	30	12	48	0
2	582	131.578	313.9	82	-6	2	30	12	48	0
3	583	130.738	313.8	83	33	2	30	12	48	0
4	584	130.286	313.7	84	37	1	30	12	48	0
5	585	129.559	313.6	85	21		30	12	48	17
6	586	128.848	313.4	86	-5	2	30	12	48	0
7	587	127.961	313.3	87	8	2	30	12	48	0
8	588	127.326	313.5	88	24	1	30	12	48	0
9	589	126.665	313.5	89	0	1	30	12	48	0
10	590	125.903	313.4	90	58	1	30	12	48	0
11	591	124.827	313.7	91	103	1	30	12	48	0
12	592	124.037	313.6	92	0	1	30	12	48	0
13	593	123.210	313.7	93	-204		30	12	48	17
14	594	122.554	313.6	94	31	2	30	12	48	0
15	595	121.795	313.3	95	0	2	30	12	48	0
16	596	121.310	313.0	96	6	1	30	12	48	0
17	597	120.381	313.4	97	6	1	30	12	48	0
18	598	119.352	313.3	98	-5		30	12	48	1
19	599	118.829	313.1	99	26	1	30	12	48	0
20	600	118.412	312.8	100	18	1	30	12	48	0

DKDAT FIELD DATA TABLE

MAINE - 1984 EXPERIMENT
SHOT NUMBER 16 SHOT POINT 44 TEAM 6
SHOT TIME: 278: 4: 5: 0.007

	LOC	DIST(KM)	AZIM	UNIT	CHRON	CHAN	C1	C2	C3	TAPE GRADE
1	601	117.494	312.6	101	25	1	30	12	48	0
2	602	116.829	312.3	102	18	2	30	12	48	0
3	603	116.437	313.7	103	4	1	30	12	48	0
4	604	115.764	313.1	104	1	1	30	12	48	0
5	605	115.139	313.0	105	39	1	30	12	48	0
6	606	114.353	312.9	106	0	1	30	12	48	0
7	607	113.792	313.0	107	51		30	12	48	17
8	608	112.868	313.0	108	6	1	30	12	48	0
9	609	112.227	313.1	109	8	1	30	12	48	0
10	610	111.443	312.9	110	27	3	30	12	48	0/12
11	611	110.885	312.6	111	60	1	30	12	48	0
12	612	110.226	312.2	112	21	1	30	12	48	0
13	613	109.348	312.0	113	-12	1	30	12	48	0
14	614	108.637	312.3	114	8	1	30	12	48	0
15	615	108.615	311.5	115	10	1	30	12	48	0/34
16	412	106.884	312.3	116	50	1	30	12	68	0/34
17	413	106.054	312.6	117	6	1	30	12	68	0/34
18	424	105.018	312.7	118	36	1	30	12	68	0/34
19	415	103.561	313.5	119	10	1	30	12	88	0/34
20	423	103.073	313.2	120	8	1	30	12	88	0/34

DKDAT FIELD DATA TABLE

MAINE - 1984 EXPERIMENT
SHOT NUMBER 17 SHOT POINT 32 TEAM 1
SHOT TIME: 278: 5:30: 0.000

	LOC	DIST(KM)	AZIM	UNIT	CHRON	CHAN	C1	C2	C3	TAPE GRADE
1	501	46.625	331.5	1	27	1	30	12	88	0
2	502	46.318	330.8	2	27	2	30	12	68	0
3	503	46.017	330.1	3	14	2	30	12	68	0
4	504	45.894	329.1	4	-103	1	30	12	68	0/34
5	505	44.988	328.3	5	22	2	30	12	48	0
6	506	43.616	329.2	6	8	2	30	12	48	0
7	507	42.141	330.3	7	14	1	30	12	48	0
8	508	41.589	330.3	8	34		30	12	48	1
9	509	40.743	331.9	9	23	1	30	12	48	0
10	510	39.581	332.0	10	19	2	30	12	48	0
11	511	38.943	332.5	11	15	1	30	12	48	0
12	512	38.633	333.4	12	21	2	30	12	48	0
13	513	38.056	333.8	13	21	1	30	12	48	0
14	514	37.267	334.7	14	25	2	30	12	48	0
15	515	36.412	335.2	15	-79	2	30	12	48	0
16	516	35.531	334.2	16	-10	2	30	12	48	0
17	517	34.596	333.4	17	33	2	30	12	48	0
18	518	34.118	332.0	18	-21	2	30	12	48	0
19	519	33.725	330.7	19	-70	1	30	12	48	0
20	520	31.948	336.2	20	9	2	30	12	48	0

DKDAT FIELD DATA TABLE

MAINE - 1984 EXPERIMENT
SHOT NUMBER 17 SHOT POINT 32 TEAM 2
SHOT TIME: 278: 5:30: 0.000

	LOC	DIST(KM)	AZIM	UNIT	CHRON	CHAN	C1	C2	C3	TAPE GRADE
1	521	31.802	333.8	21	-20	1	30	12	48	0
2	522	30.994	331.8	22	15	2	30	12	48	0
3	523	30.571	330.1	23	34	1	30	12	48	0
4	524	30.135	328.0	24	4	1	30	12	48	0
5	525	29.235	327.4	25	35	1	30	12	48	0
6	526	28.237	327.9	26	2	1	30	12	48	0
7	527	27.078	328.7	27	11	1	30	12	48	0
8	528	26.204	329.4	28	-65	1	30	12	48	0
9	529	25.617	329.9	29	16	1	30	12	48	0
10	530	24.885	330.5	30	10	1	30	12	48	0
11	531	24.131	331.3	31	8		30	12	48	17
12	532	23.347	332.7	32	45	1	30	12	48	0
13	533	22.727	332.9	33	67	1	30	12	48	0
14	534	21.927	331.6	34	17	1	30	12	48	0
15	535	21.221	329.3	35	-34	3	30	12	48	0
16	536	20.619	328.2	36	9	1	30	12	48	0
17	537	20.125	325.2	37	10	1	30	12	48	0/34
18	538	10.246	327.0	38	4	1	30	12	48	0
19	539	9.354	329.9	39	-2	1	30	12	48	0
20	540	8.546	332.1	40	10	3	30	12	48	0

DKDAT FIELD DATA TABLE

MAINE - 1984 EXPERIMENT
SHOT NUMBER 17 SHOT POINT 32 TEAM 3
SHOT TIME: 278: 5:30: 0.000

	LOC	DIST(KM)	AZIM	UNIT	CHRON	CHAN	C1	C2	C3	TAPE GRADE
1	541	20.887	344.8	41	-23	1	30	12	48	0
2	542	20.188	343.8	42	11	1	30	12	48	0
3	543	19.452	342.7	43	12	1	30	12	48	0
4	544	18.787	341.9	44	36	1	30	12	48	0
5	545	18.222	342.7	45	3	2	30	12	48	0
6	546	17.559	344.2	46	27	1	30	12	48	0
7	547	16.699	345.1	47	3	1	30	12	48	0
8	548	15.786	344.2	48	17	1	30	12	48	0
9	549	15.109	344.2	49	18	1	30	12	48	0
10	550	14.433	344.7	50	1	1	30	12	48	0
11	551	13.473	344.9	51	25	1	30	12	48	0
12	552	12.303	339.0	52	6		30	12	48	1
13	553	11.800	336.8	53	10	1	30	12	48	0
14	554	11.099	331.4	54	-5	1	30	12	48	0
15	555	0.000	180.0	55	26	3	30	12	88	0
16	556	7.761	334.4	56	27	3	30	12	48	0
17	557	8.058	346.9	57	28	3	30	12	48	0
18	558	6.991	333.1	58	16	3	30	12	48	0
19	559	6.540	339.6	59	2	3	30	12	48	0
20	560	5.807	343.8	60	-4	3	30	12	48	0

DKDAT FIELD DATA TABLE

MAINE - 1984 EXPERIMENT
SHOT NUMBER 17 SHOT POINT 32 TEAM 4
SHOT TIME: 278: 5:30: 0.000

	LOC	DIST(KM)	AZIM	UNIT	CHRON	CHAN	C1	C2	C3	TAPE GRADE
1	561	5.263	347.6	61	17	3	30	12	48	0
2	562	4.652	350.5	62	0	3	30	12	48	0
3	563	3.973	355.6	63	9	3	30	12	48	0
4	564	3.331	7.7	64	29	3	30	12	48	0
5	565	3.043	17.4	65	1	3	30	12	68	0
6	566	2.831	32.5	66	14	3	30	12	68	0
7	567	2.839	47.3	67	0	3	30	12	68	0
8	568	3.051	61.0	68	16	3	30	12	48	0
9	569	3.314	70.8	69	3	3	30	12	48	0
10	570	3.721	80.8	70	50	3	30	12	48	0
11	571	4.458	88.0	71	44	3	30	12	48	0
12	572	5.179	89.9	72	25	3	30	12	48	0
13	573	5.700	95.5	73	-20	3	30	12	48	0
14	574	6.179	98.4	74	1	3	30	12	48	0
15	575	7.097	102.6	75	20	3	30	12	48	0
16	576	7.715	113.8	76	5	3	30	12	48	0/34
17	577	7.814	122.5	77	13	1	30	12	48	0
18	578	8.590	124.9	78	0	3	30	12	48	0
19	579	9.155	129.2	79	31	3	30	12	48	0
20	580	9.839	131.0	80	17	3	30	12	48	0

DKDAT FIELD DATA TABLE

MAINE - 1984 EXPERIMENT
SHOT NUMBER 17 SHOT POINT 32 TEAM 5
SHOT TIME: 278: 5:30: 0.000

	LOC	DIST(KM)	AZIM	UNIT	CHRON	CHAN	C1 C2 C3	TAPE GRADE
1	581	10.505	130.9	81	-21	3	30 12 48	0
2	582	11.632	128.7	82	-6	3	30 12 48	0
3	583	12.462	129.6	83	34	1	30 12 48	0
4	584	12.900	130.7	84	39	3	30 12 48	0
5	585	13.619	131.8	85	22		30 12 48	17
6	586	14.328	133.8	86	-5	3	30 12 48	0
7	587	15.222	134.9	87	8	3	30 12 48	0
8	588	15.851	133.2	88	25	3	30 12 48	0
9	589	16.513	133.0	89	0	3	30 12 48	0
10	590	17.276	133.5	90	61	3	30 12 48	0
11	591	18.359	131.9	91	108	3	30 12 48	0
12	592	19.147	132.4	92	0	3	30 12 48	0
13	593	19.983	131.5	93	-213		30 12 48	17
14	594	20.631	132.6	94	32	1	30 12 48	0
15	595	21.393	134.0	95	0	1	30 12 48	0
16	596	21.906	136.0	96	6	1	30 12 48	0
17	597	22.806	133.7	97	6	1	30 12 48	0
18	598	23.840	134.2	98	-5		30 12 48	1
19	599	24.371	134.8	99	28	3	30 12 48	0
20	600	24.823	136.3	100	19	1	30 12 48	0

DKDAT FIELD DATA TABLE

MAINE - 1984 EXPERIMENT
SHOT NUMBER 17 SHOT POINT 32 TEAM 6
SHOT TIME: 278: 5:30: 0.000

	LOC	DIST(KM)	AZIM	UNIT	CHRON	CHAN	C1 C2 C3	TAPE GRADE
1	601	25.768	137.1	101	26	1	30 12 48	0
2	602	26.498	138.4	102	19	1	30 12 48	0
3	603	26.758	132.4	103	4	1	30 12 48	0
4	604	27.439	134.6	104	1	1	30 12 48	0
5	605	28.076	135.2	105	41	1	30 12 48	0
6	606	28.867	135.4	106	0	3	30 12 48	0
7	607	29.420	134.9	107	53		30 12 48	17
8	608	30.347	135.0	108	6	1	30 12 48	0
9	609	30.983	134.6	109	8	1	30 12 48	0
10	610	31.784	135.4	110	28	3	30 12 48	0
11	611	32.375	136.3	111	63	1	30 12 48	0
12	612	33.095	137.5	112	22	1	30 12 48	0
13	613	33.999	137.9	113	-13	1	30 12 48	0
14	614	34.661	136.9	114	9	1	30 12 48	0
15	615	34.869	139.6	115	11	1	30 12 48	0/34
16	412	36.409	136.7	116	52	1	30 12 68	0
17	413	37.198	135.7	117	7	1	30 12 68	0
18	424	38.230	135.5	118	37	1	30 12 68	0
19	415	39.647	133.2	119	10	1	30 12 88	0
20	423	40.141	134.0	120	8	1	30 12 88	0

DKDAT FIELD DATA TABLE

MAINE - 1984 EXPERIMENT
SHOT NUMBER 18 SHOT POINT 33 TEAM 1
SHOT TIME: 278: 5:35: 0.007

	LOC	DIST(KM)	AZIM	UNIT	CHRON	CHAN	C1 C2 C3	TAPE GRADE
1	501	167.942	318.2	1	27	2	30 12 88	0/34
2	502	167.784	317.9	2	27	2	30 12 68	0
3	503	167.601	317.7	3	15	2	30 12 68	0
4	504	167.664	317.4	4	-103	2	30 12 68	0/34
5	505	166.904	317.2	5	22	2	30 12 48	0
6	506	165.411	317.3	6	8	2	30 12 48	0
7	507	163.797	317.5	7	14	2	30 12 48	0
8	508	163.261	317.4	8	34		30 12 48	1
9	509	162.170	317.8	9	24	2	30 12 48	0
10	510	161.023	317.7	10	19	2	30 12 48	0
11	511	160.331	317.8	11	15	1	30 12 48	0
12	512	159.867	317.9	12	21	2	30 12 48	0
13	513	159.235	318.0	13	21	2	30 12 48	0
14	514	158.323	318.1	14	25	2	30 12 48	0
15	515	157.408	318.1	15	-79	2	30 12 48	0
16	516	156.742	317.8	16	-10	2	30 12 48	0
17	517	155.997	317.5	17	33	2	30 12 48	0
18	518	155.762	317.2	18	-21	2	30 12 48	0
19	519	155.574	316.9	19	-70	2	30 12 48	0
20	520	152.982	317.8	20	9	2	30 12 48	0

DKDAT FIELD DATA TABLE

MAINE - 1984 EXPERIMENT
SHOT NUMBER 18 SHOT POINT 33 TEAM 2
SHOT TIME: 278: 5:35: 0.007

	LOC	DIST(KM)	AZIM	UNIT	CHRON	CHAN	C1 C2 C3	TAPE GRADE
1	521	153.246	317.3	21	-21	2	30 12 48	0/34
2	522	152.770	316.9	22	15	2	30 12 48	0
3	523	152.592	316.5	23	34	2	30 12 48	0/34
4	524	152.424	316.0	24	4	2	30 12 48	0
5	525	151.600	315.9	25	35	2	30 12 48	0
6	526	150.573	315.9	26	2	2	30 12 48	0
7	527	149.359	315.9	27	11	1	30 12 48	0
8	528	148.437	316.0	28	-65	1	30 12 48	0
9	529	147.811	316.0	29	16	2	30 12 48	0
10	530	147.041	316.0	30	10	2	30 12 48	5
11	531	146.232	316.1	31	8		30 12 48	17
12	532	145.311	316.2	32	45	1	30 12 48	0
13	533	144.702	316.2	33	67	2	30 12 48	0
14	534	144.075	315.9	34	17	2	30 12 48	0
15	535	143.615	315.5	35	-34	1	30 12 48	0
16	536	143.132	315.3	36	9	2	30 12 48	0
17	537	142.866	314.8	37	10	1	30 12 48	0/34
18	538	133.113	314.2	38	4	2	30 12 48	0
19	539	132.126	314.3	39	-2	2	30 12 48	0
20	540	131.255	314.3	40	10	1	30 12 48	0

DKDAT FIELD DATA TABLE

MAINE - 1984 EXPERIMENT
SHOT NUMBER 18 SHOT POINT 33 TEAM 3
SHOT TIME: 278: 5:35: 0.007

	LOC	DIST(KM)	AZIM	UNIT	CHRON	CHAN	C1	C2	C3	TAPE GRADE
1	541	141.310	317.6	41	-23	2	30	12	48	0
2	542	140.850	317.3	42	11	2	30	12	48	0
3	543	140.360	317.0	43	12	2	30	12	48	0
4	544	139.871	316.8	44	36	2	30	12	48	0
5	545	139.248	316.8	45	3	2	30	12	48	0
6	546	138.447	316.9	46	27	2	30	12	48	0
7	547	137.561	316.8	47	3	2	30	12	48	0
8	548	136.883	316.5	48	17	2	30	12	48	0
9	549	136.284	316.4	49	18	2	30	12	48	0
10	550	135.628	316.3	50	2	2	30	12	48	0
11	551	134.761	316.1	51	25	2	30	12	48	0
12	552	134.304	315.4	52	6		30	12	48	1
13	553	134.024	315.1	53	10	2	30	12	48	0
14	554	133.722	314.6	54	-5	2	30	12	48	0
15	555	123.167	313.1	55	26	1	30	12	88	0/34
16	556	130.408	314.3	56	27	2	30	12	48	0
17	557	129.919	315.1	57	28	2	30	12	48	0
18	558	129.740	314.2	58	16	2	30	12	48	0
19	559	129.036	314.4	59	2	2	30	12	48	0
20	560	128.176	314.4	60	-4	1	30	12	48	0/37

DKDAT FIELD DATA TABLE

MAINE - 1984 EXPERIMENT
SHOT NUMBER 18 SHOT POINT 33 TEAM 4
SHOT TIME: 278: 5:35: 0.007

	LOC	DIST(KM)	AZIM	UNIT	CHRON	CHAN	C1	C2	C3	TAPE GRADE
1	561	127.522	314.4	61	17	2	30	12	48	0
2	562	126.878	314.4	62	0	2	30	12	48	0
3	563	126.114	314.3	63	9	2	30	12	48	0
4	564	125.115	314.4	64	29	2	30	12	48	5
5	565	124.505	314.4	65	1	2	30	12	68	0
6	566	123.710	314.4	66	14	1	30	12	68	0
7	567	122.980	314.4	67	0	1	30	12	68	0/37
8	568	122.254	314.5	68	16	2	30	12	48	0
9	569	121.654	314.5	69	3	1	30	12	48	0
10	570	120.920	314.5	70	50	1	30	12	48	0
11	571	120.055	314.6	71	44	1	30	12	48	0
12	572	119.440	314.8	72	25	1	30	12	48	0
13	573	118.697	314.8	73	-21	1	30	12	48	0
14	574	118.134	314.8	74	1	2	30	12	48	0
15	575	117.100	314.9	75	20	2	30	12	48	0
16	576	115.916	314.4	76	5	1	30	12	48	0/37
17	577	115.502	313.8	77	13	2	30	12	48	0
18	578	114.679	313.7	78	0	2	30	12	48	0
19	579	114.046	313.4	79	31	1	30	12	48	0
20	580	113.348	313.3	80	17	1	30	12	48	0

DKDAT FIELD DATA TABLE

MAINE - 1984 EXPERIMENT
SHOT NUMBER 18 SHOT POINT 33 TEAM 5
SHOT TIME: 278: 5:35: 0.007

	LOC	DIST(KM)	AZIM	UNIT	CHRON	CHAN	C1	C2	C3	TAPE GRADE
1	581	112.684	313.3	81	-21	1	30	12	48	0
2	582	111.586	313.6	82	-6	2	30	12	48	0
3	583	110.746	313.5	83	34	2	30	12	48	0
4	584	110.295	313.4	84	39	2	30	12	48	0
5	585	109.569	313.3	85	22		30	12	48	17
6	586	108.861	313.0	86	-5	2	30	12	48	0
7	587	107.976	312.9	87	8	1	30	12	48	0
8	588	107.338	313.1	88	25	1	30	12	48	0
9	589	106.677	313.1	89	0	1	30	12	48	0
10	590	105.916	313.0	90	61	1	30	12	48	0
11	591	104.837	313.3	91	108	1	30	12	48	0
12	592	104.048	313.2	92	0	1	30	12	48	0
13	593	103.219	313.4	93	-213	2	30	12	48	0
14	594	102.565	313.2	94	32	2	30	12	48	0
15	595	101.809	312.9	95	0	2	30	12	48	0
16	596	101.329	312.5	96	6	2	30	12	48	0
17	597	100.395	313.0	97	6	1	30	12	48	0
18	598	99.367	312.8	98	-5		30	12	48	1
19	599	98.846	312.7	99	28	1	30	12	48	0
20	600	98.434	312.3	100	19	1	30	12	48	0

DKDAT FIELD DATA TABLE

MAINE - 1984 EXPERIMENT
SHOT NUMBER 18 SHOT POINT 33 TEAM 6
SHOT TIME: 278: 5:35: 0.007

	LOC	DIST(KM)	AZIM	UNIT	CHRON	CHAN	C1	C2	C3	TAPE GRADE
1	601	97.519	312.0	101	26	1	30	12	48	0
2	602	96.861	311.6	102	19	2	30	12	48	0
3	603	96.447	313.3	103	4	1	30	12	48	0
4	604	95.781	312.7	104	1	1	30	12	48	0
5	605	95.158	312.5	105	41	1	30	12	48	0
6	606	94.373	312.4	106	0	1	30	12	48	0
7	607	93.810	312.5	107	53		30	12	48	17
8	608	92.887	312.5	108	6	2	30	12	48	0
9	609	92.245	312.6	109	8	1	30	12	48	0
10	610	91.465	312.3	110	29	1	30	12	48	0
11	611	90.912	312.0	111	64	1	30	12	48	0
12	612	90.261	311.5	112	22	1	30	12	48	0
13	613	89.387	311.3	113	-13	1	30	12	48	0
14	614	88.670	311.6	114	9	1	30	12	48	0
15	615	88.669	310.6	115	11	1	30	12	48	0/34
16	412	86.917	311.6	116	53	1	30	12	68	0/34
17	413	86.081	312.0	117	7	1	30	12	68	0/34
18	424	85.044	312.0	118	37	1	30	12	68	0/34
19	415	83.574	313.1	119	10	2	30	12	88	0/34
20	423	83.091	312.7	120	8	2	30	12	88	0/34

DKDAT FIELD DATA TABLE

MAINE - 1984 EXPERIMENT
SHOT NUMBER 19 SHOT POINT 1 TEAM 1
SHOT TIME: 278: 5:37: 0.012

	LOC	DIST(KM)	AZIM	UNIT	CHRON	CHAN	C1	C2	C3	TAPE GRADE
1	501	86.353	323.8	1	27	2	30	12	88	0
2	502	86.129	323.4	2	27	2	30	12	68	0
3	503	85.893	323.0	3	15	2	30	12	68	0
4	504	85.874	322.4	4	-103	1	30	12	68	0/34
5	505	85.045	321.9	5	22	2	30	12	48	0
6	506	83.598	322.3	6	8	2	30	12	48	0
7	507	82.035	322.8	7	14	1	30	12	48	0
8	508	81.488	322.7	8	34		30	12	48	1
9	509	80.493	323.4	9	24	2	30	12	48	0
10	510	79.392	323.4	10	19	2	30	12	48	0
11	511	78.716	323.5	11	15	2	30	12	48	0
12	512	78.308	323.9	12	21	2	30	12	48	0
13	513	77.691	324.1	13	21	2	30	12	48	0
14	514	76.817	324.4	14	25	2	30	12	48	0
15	515	75.914	324.5	15	-80	2	30	12	48	0
16	516	75.160	323.9	16	-10	2	30	12	48	0
17	517	74.336	323.4	17	33	2	30	12	48	0
18	518	74.007	322.7	18	-21	2	30	12	48	0
19	519	73.741	322.0	19	-70	2	30	12	48	0
20	520	71.421	324.3	20	9	2	30	12	48	0

DKDAT FIELD DATA TABLE

MAINE - 1984 EXPERIMENT
SHOT NUMBER 19 SHOT POINT 1 TEAM 2
SHOT TIME: 278: 5:37: 0.012

	LOC	DIST(KM)	AZIM	UNIT	CHRON	CHAN	C1	C2	C3	TAPE GRADE
1	521	71.541	323.2	21	-21	2	30	12	48	0/34
2	522	70.940	322.2	22	15	2	30	12	48	0
3	523	70.672	321.4	23	34	1	30	12	48	0
4	524	70.403	320.5	24	4	1	30	12	48	0
5	525	69.546	320.1	25	35	1	30	12	48	0
6	526	68.524	320.2	26	2	1	30	12	48	0
7	527	67.322	320.4	27	11	1	30	12	48	0
8	528	66.410	320.6	28	-65	1	30	12	48	0
9	529	65.793	320.7	29	16	2	30	12	48	0
10	530	65.029	320.8	30	10	1	30	12	48	0
11	531	64.232	321.0	31	8		30	12	48	17
12	532	63.346	321.4	32	45	1	30	12	48	0
13	533	62.728	321.3	33	67	1	30	12	48	0
14	534	62.040	320.7	34	17	1	30	12	48	0
15	535	61.499	319.8	35	-34	1	30	12	48	0
16	536	60.974	319.3	36	10	1	30	12	48	0
17	537	60.632	318.3	37	10	1	30	12	48	0/34
18	538	50.790	317.3	38	4	2	30	12	48	0
19	539	49.819	317.7	39	-2	2	30	12	48	0
20	540	48.955	317.9	40	10	1	30	12	48	0

DKDAT FIELD DATA TABLE

MAINE - 1984 EXPERIMENT
SHOT NUMBER 19 SHOT POINT 1 TEAM 3
SHOT TIME: 278: 5:37: 0.012

	LOC	DIST(KM)	AZIM	UNIT	CHRON	CHAN	C1	C2	C3	TAPE GRADE
1	541	59.736	324.9	41	-23	1	30	12	48	0
2	542	59.199	324.4	42	11	2	30	12	48	0
3	543	58.630	323.8	43	12	2	30	12	48	0
4	544	58.083	323.4	44	36	1	30	12	48	0
5	545	57.463	323.4	45	3	2	30	12	48	0
6	546	56.681	323.6	46	27	1	30	12	48	0
7	547	55.780	323.6	47	3	2	30	12	48	0
8	548	55.028	323.0	48	17	2	30	12	48	0
9	549	54.397	322.7	49	18	2	30	12	48	5
10	550	53.721	322.6	50	2	1	30	12	48	0
11	551	52.814	322.2	51	26	1	30	12	48	0
12	552	52.190	320.4	52	6		30	12	48	1
13	553	51.857	319.8	53	10	2	30	12	48	5
14	554	51.462	318.4	54	-5	2	30	12	48	0
15	555	40.732	314.9	55	27	1	30	12	88	0/32
16	556	48.111	318.0	56	27	1	30	12	48	0
17	557	47.750	320.0	57	28	1	30	12	48	0
18	558	47.418	317.5	58	16	1	30	12	48	0
19	559	46.748	318.2	59	2	1	30	12	48	0
20	560	45.894	318.4	60	-4	1	30	12	48	0

DKDAT FIELD DATA TABLE

MAINE - 1984 EXPERIMENT
SHOT NUMBER 19 SHOT POINT 1 TEAM 4
SHOT TIME: 278: 5:37: 0.012

	LOC	DIST(KM)	AZIM	UNIT	CHRON	CHAN	C1	C2	C3	TAPE GRADE
1	561	45.243	318.5	61	17	2	30	12	48	0
2	562	44.589	318.4	62	0	1	30	12	48	0
3	563	43.817	318.3	63	9	2	30	12	48	0
4	564	42.823	318.4	64	29	2	30	12	48	0
5	565	42.216	318.6	65	1	1	30	12	68	0
6	566	41.427	318.7	66	14	1	30	12	68	0
7	567	40.703	318.9	67	0	1	30	12	68	0
8	568	39.985	319.1	68	16	1	30	12	48	0
9	569	39.391	319.2	69	3	1	30	12	48	0
10	570	38.660	319.4	70	50	1	30	12	48	0
11	571	37.818	319.8	71	44	1	30	12	48	0
12	572	37.244	320.5	72	25	1	30	12	48	0
13	573	36.500	320.6	73	-21	1	30	12	48	0
14	574	35.944	320.8	74	1	1	30	12	48	0
15	575	34.927	321.1	75	20	1	30	12	48	0
16	576	33.644	319.6	76	5	1	30	12	48	0
17	577	33.140	317.8	77	13	1	30	12	48	0
18	578	32.304	317.5	78	0	1	30	12	48	0
19	579	31.634	316.5	79	31	1	30	12	48	0
20	580	30.922	316.1	80	17	1	30	12	48	0

DKDAT FIELD DATA TABLE

MAINE - 1984 EXPERIMENT
SHOT NUMBER 19 SHOT POINT 1 TEAM 5
SHOT TIME: 278: 5:37: 0.012

	LOC	DIST(KM)	AZIM	UNIT	CHRON	CHAN	C1	C2	C3	TAPE GRADE
1	581	30.259	316.3	81	-21	1	30	12	48	0
2	582	29.193	317.4	82	-6	1	30	12	48	0
3	583	28.345	317.2	83	34	1	30	12	48	0
4	584	27.880	316.8	84	39	1	30	12	48	0
5	585	27.141	316.4	85	22		30	12	48	17
6	586	26.407	315.5	86	-5	1	30	12	48	0
7	587	25.510	314.9	87	8	1	30	12	48	0
8	588	24.891	316.0	88	25	1	30	12	48	0
9	589	24.232	316.1	89	0	1	30	12	48	0
10	590	23.464	315.9	90	61	3	30	12	48	0
11	591	22.416	317.3	91	108	3	30	12	48	0
12	592	21.617	317.1	92	0	3	30	12	48	0
13	593	20.815	318.1	93	-214		30	12	48	17
14	594	20.133	317.3	94	32	1	30	12	48	0
15	595	19.344	315.8	95	0	1	30	12	48	0
16	596	18.835	313.6	96	6	1	30	12	48	0
17	597	17.935	316.4	97	6	1	30	12	48	0
18	598	16.896	315.9	98	-5		30	12	48	1
19	599	16.361	315.0	99	28	3	30	12	48	0
20	600	15.931	312.6	100	19	3	30	12	48	0

DKDAT FIELD DATA TABLE

MAINE - 1984 EXPERIMENT
SHOT NUMBER 19 SHOT POINT 1 TEAM 6
SHOT TIME: 278: 5:37: 0.012

	LOC	DIST(KM)	AZIM	UNIT	CHRON	CHAN	C1	C2	C3	TAPE GRADE
1	601	15.018	311.1	101	26	3	30	12	48	0
2	602	14.383	308.3	102	19	1	30	12	48	0
3	603	14.043	319.5	103	4	3	30	12	48	0
4	604	13.293	315.4	104	1	3	30	12	48	0
5	605	12.658	314.2	105	41	3	30	12	48	0
6	606	11.869	313.7	106	0	3	30	12	48	0
7	607	11.312	314.8	107	53		30	12	48	17
8	608	10.385	314.6	108	6	3	30	12	48	0
9	609	9.750	315.6	109	8	3	30	12	48	0
10	610	8.954	313.2	110	29	3	30	12	48	0
11	611	8.408	309.4	111	64	3	30	12	48	0
12	612	7.826	303.6	112	22	3	30	12	48	0
13	613	7.009	300.3	113	-13	3	30	12	48	0
14	614	6.221	303.4	114	9	3	30	12	48	0
15	615	6.627	289.5	115	11	3	30	12	48	0
16	412	4.492	300.1	116	53	3	30	12	68	0/34
17	413	3.578	306.4	117	7	3	30	12	68	0/34
18	424	2.539	305.6	118	37	3	30	12	68	0/34
19	415	1.629	2.4	119	10	3	30	12	88	0/34
20	423	0.852	0.7	120	8	3	30	12	88	0/34

APPENDIX C

FIRST-ARRIVAL TIMES

For each shot, first-arrival times (in seconds) are listed in order from that at the most distant station to the southeast (positive distance, in km) to that at the most distant station to the northwest (negative distance, in km).

SHOT POINT	RECORDER LOCATION	TRAVEL TIME (REAL)	TRAVEL TIME (T-X/6)	DISTANCE
C1	220	43.632	-6.295	299.559
C1	218	43.327	-6.173	296.998
C1	216	43.170	-6.069	295.432
C1	215	43.083	-5.975	294.351
C1	214	42.299	-5.683	287.893
C1	213	41.876	-5.455	283.983
C1	212	40.739	-5.211	275.701
C1	211	40.703	-5.168	275.223
C1	210	40.612	-5.144	274.541
C1	209	40.520	-5.116	273.816
C1	208	40.446	-5.106	273.315
C1	207	40.056	-4.900	269.732
C1	206	39.981	-4.881	269.173
C1	205	39.860	-4.778	267.825
C1	420	39.888	-4.749	267.821
C1	204	39.780	-4.730	267.064
C1	203	39.691	-4.721	266.473
C1	202	39.618	-4.683	265.811
C1	201	39.575	-4.626	265.205
C1	199	39.441	-4.530	263.824
C1	197	39.193	-4.460	261.915
C1	196	39.085	-4.452	261.220
C1	195	38.951	-4.429	260.284
C1	194	38.869	-4.417	259.716
C1	193	38.859	-4.326	259.111
C1	192	38.806	-4.287	258.560
C1	191	38.743	-4.214	257.743
C1	190	38.672	-4.165	257.017
C1	188	38.433	-4.078	255.066
C1	187	38.320	-4.083	254.421
C1	186	38.221	-4.044	253.589
C1	184	37.966	-3.997	251.775
C1	182	37.826	-3.958	250.703
C1	183	37.769	-3.974	250.456
C1	181	37.788	-3.942	250.378
C1	180	37.676	-3.879	249.333
C1	179	37.535	-3.832	248.204
C1	178	37.507	-3.845	248.108
C1	177	37.355	-3.863	247.311
C1	176	37.298	-3.802	246.595
C1	175	37.131	-3.802	245.592
C1	174	37.079	-3.728	244.842
C1	173	36.916	-3.728	243.860
C1	172	36.850	-3.672	243.132
C1	171	36.737	-3.660	242.385
C1	170	36.605	-3.660	241.588
C1	169	36.516	-3.641	240.948
C1	168	36.400	-3.555	239.734
C1	167	36.295	-3.531	238.955
C1	166	36.239	-3.475	238.287
C1	164	36.109	-3.426	237.210
C1	163	36.048	-3.328	236.254
C1	162	35.836	-3.322	234.947
C1	161	35.777	-3.322	234.590

SHOT POINT	RECORDER LOCATION	TRAVEL TIME (REAL)	TRAVEL TIME (T-X/6)	DISTANCE
C1	160	35.552	-3.350	233.409
C1	159	35.513	-3.279	232.753
C1	158	35.467	-3.214	232.085
C1	157	35.454	-3.106	231.361
C1	155	35.330	-3.014	230.064
C1	154	35.236	-2.966	229.210
C1	153	35.148	-2.937	228.511
C1	152	35.060	-2.896	227.739
C1	151	35.011	-2.865	227.259
C1	149	34.777	-2.763	225.238
C1	148	34.714	-2.737	224.705
C1	146	34.514	-2.676	223.137
C1	145	34.481	-2.608	222.530
C1	144	34.362	-2.594	221.736
C1	143	34.367	-2.517	221.305
C1	142	34.255	-2.481	220.415
C1	140	34.048	-2.383	218.586
C1	139	33.960	-2.347	217.846
C1	138	33.933	-2.270	217.218
C1	137	33.878	-2.240	216.704
C1	136	33.773	-2.181	215.730
C1	135	33.673	-2.177	215.100
C1	134	33.546	-2.099	213.869
C1	133	33.435	-2.109	213.266
C1	132	33.319	-2.066	212.312
C1	131	33.234	-2.068	211.809
C1	130	33.123	-2.005	210.765
C1	129	33.002	-1.998	210.006
C1	128	32.950	-1.949	209.395
C1	127	32.926	-1.840	208.598
C1	125	32.692	-1.817	207.049
C1	124	32.652	-1.730	206.291
C1	123	32.560	-1.660	205.318
C1	122	32.481	-1.660	204.848
C1	121	32.532	-1.494	204.155
C1	120	32.330	-1.482	202.869
C1	119	32.457	-1.260	202.302
C1	222	32.110	-1.409	201.113
C1	116	31.811	-1.482	199.758
C1	115	31.678	-1.482	198.955
C1	114	31.686	-1.307	197.961
C1	113	31.601	-1.323	197.542
C1	112	31.544	-1.245	196.733
C1	111	31.448	-1.223	196.029
C1	110	31.493	-1.066	195.353
C1	109	31.413	-1.009	194.531
C1	108	31.704	-0.568	193.631
C1	107	31.558	-0.496	192.328
C1	106	31.492	-0.436	191.564
C1	105	31.367	-0.374	190.445
C1	104	31.232	-0.373	189.633
C1	103	31.242	-0.366	189.646
C1	221	31.161	-0.313	188.846
C1	101	31.052	-0.310	188.169

SHOT POINT	RECORDER LOCATION	TRAVEL TIME (REAL)	TRAVEL TIME (T-X/6)	DISTANCE
C1	302	30.951	-0.322	187.635
C1	303	30.810	-0.278	186.531
C1	304	30.563	-0.322	185.309
C1	306	29.931	-0.673	183.625
C1	307	30.083	-0.317	182.395
C1	308	29.842	-0.317	180.950
C1	309	29.785	-0.197	179.891
C1	310	29.400	-0.473	179.237
C1	311	29.352	-0.347	178.196
C1	312	29.139	-0.368	177.042
C1	313	29.002	-0.337	176.033
C1	314	28.859	-0.215	174.444
C1	315	28.732	-0.209	173.647
C1	316	28.580	-0.184	172.583
C1	317	28.420	-0.165	171.509
C1	318	28.230	-0.147	170.262
C1	319	28.198	-0.065	169.579
C1	320	28.005	-0.096	168.608
C1	417	27.983	-0.046	168.173
C1	321	27.886	-0.065	167.706
C1	322	27.775	-0.021	166.779
C1	323	27.602	-0.002	165.625
C1	324	27.497	0.029	164.805
C1	325	27.325	0.048	163.663
C1	326	27.157	0.060	162.577
C1	327	27.070	0.067	162.018
C1	328	26.941	0.053	161.329
C1	329	26.760	0.058	160.212
C1	331	26.316	-0.060	158.258
C1	332	26.115	-0.091	157.238
C1	333	25.895	-0.122	156.103
C1	334	25.864	-0.055	155.513
C1	335	25.676	-0.128	154.827
C1	336	25.587	-0.095	154.093
C1	337	25.395	-0.055	152.699
C1	338	25.283	-0.043	151.956
C1	339	25.063	-0.058	150.721
C1	341	24.654	-0.142	148.776
C1	342	24.441	-0.213	147.919
C1	343	24.208	-0.241	146.694
C1	344	23.937	-0.264	145.210
C1	345	23.817	-0.250	144.405
C1	346	23.672	-0.235	143.437
C1	416	23.661	-0.219	143.283
C1	347	23.534	-0.196	142.380
C1	348	23.408	-0.168	141.452
C1	349	23.210	-0.154	140.179
C1	350	23.068	-0.130	139.189
C1	351	22.964	-0.116	138.481
C1	352	22.822	-0.097	137.515
C1	353	22.717	-0.092	136.858
C1	354	22.616	-0.074	136.138
C1	355	22.522	-0.071	135.553
C1	356	22.451	-0.055	135.032

SHOT POINT	RECORDER LOCATION	TRAVEL TIME (REAL)	TRAVEL TIME (T-X/6)	DISTANCE
C1	357	22.311	-0.012	133.939
C1	359	22.084	0.063	132.125
C1	360	21.927	0.086	131.041
C1	361	21.759	0.101	129.949
C1	362	21.661	0.135	129.159
C1	363	21.500	0.129	128.229
C1	365	21.252	0.176	126.459
C1	366	21.080	0.185	125.371
C1	367	20.874	0.162	124.275
C1	368	20.828	0.227	123.606
C1	369	20.573	0.162	122.465
C1	370	20.472	0.209	121.580
C1	371	20.271	0.209	120.371
C1	374	19.850	0.289	117.370
C1	375	19.648	0.242	116.432
C1	376	19.461	0.232	115.376
C1	377	19.187	0.147	114.240
C1	378	19.123	0.160	113.775
C1	379	19.090	0.145	113.669
C1	380	19.047	0.129	113.512
C1	382	18.719	0.124	111.572
C1	383	18.558	0.115	110.660
C1	384	18.437	0.115	109.937
C1	386	18.157	0.101	108.336
C1	387	17.894	0.073	106.928
C1	388	17.740	0.073	106.003
C1	389	17.667	0.140	105.161
C1	390	17.517	0.083	104.602
C1	391	17.394	0.140	103.527
C1	392	17.222	0.130	102.554
C1	393	17.056	0.119	101.623
C1	394	16.839	0.124	100.288
C1	395	16.694	0.091	99.615
C1	396	16.577	0.110	98.802
C1	397	16.365	0.110	97.529
C1	398	16.226	0.110	96.699
C1	399	16.068	0.115	95.721
C1	400	15.907	0.129	94.672
C1	401	15.794	0.138	93.938
C1	402	15.653	0.129	93.144
C1	403	15.479	0.129	92.103
C1	404	15.362	0.162	91.201
C1	405	15.205	0.152	90.318
C1	406	15.083	0.162	89.525
C1	408	14.831	0.147	88.103
C1	421	14.627	0.110	87.101
C1	422	14.590	0.162	86.571
C1	423	14.497	0.176	85.930
C1	415	14.385	0.162	85.338
C1	424	14.226	0.190	84.217
C1	413	14.055	0.185	83.221
C1	412	13.956	0.199	82.542
C1	615	13.743	0.198	81.270
C1	614	13.681	0.208	80.841

SHOT POINT	RECORDER LOCATION	TRAVEL TIME (REAL)	TRAVEL TIME (T-X/6)	DISTANCE
C1	613	13.598	0.220	80.270
C1	612	13.431	0.198	79.399
C1	611	13.307	0.210	78.579
C1	610	13.195	0.210	77.909
C1	609	13.057	0.215	77.050
C1	608	12.965	0.222	76.457
C1	606	12.775	0.269	75.036
C1	605	12.650	0.276	74.245
C1	604	12.586	0.324	73.569
C1	602	12.427	0.269	72.947
C1	603	12.439	0.324	72.691
C1	601	12.305	0.283	72.129
C1	600	12.152	0.295	71.142
C1	599	12.074	0.311	70.576
C1	597	11.853	0.361	68.952
C1	596	11.747	0.373	68.248
C1	595	11.646	0.380	67.597
C1	594	11.516	0.394	66.734
C1	592	11.259	0.380	65.278
C1	591	11.175	0.429	64.475
C1	590	10.985	0.394	63.547
C1	589	10.825	0.363	62.771
C1	588	10.724	0.368	62.138
C1	587	10.615	0.342	61.636
C1	586	10.459	0.342	60.703
C1	584	10.204	0.349	59.132
C1	583	10.080	0.307	58.638
C1	582	9.912	0.281	57.790
C1	581	9.759	0.283	56.853
C1	580	9.639	0.269	56.221
C1	579	9.506	0.260	55.477
C1	578	9.369	0.250	54.711
C1	577	9.222	0.245	53.862
C1	576	9.120	0.252	53.202
C1	575	8.896	0.257	51.831
C1	574	8.719	0.245	50.838
C1	573	8.628	0.245	50.297
C1	572	8.487	0.227	49.560
C1	571	8.394	0.220	49.046
C1	570	8.250	0.208	48.255
C1	569	8.146	0.222	47.546
C1	568	8.005	0.176	46.974
C1	555	8.005	0.184	46.923
C1	567	7.880	0.165	46.290
C1	566	7.777	0.177	45.597
C1	565	7.642	0.168	44.842
C1	564	7.526	0.149	44.263
C1	563	7.349	0.130	43.312
C1	562	7.218	0.128	42.540
C1	561	7.103	0.123	41.881
C1	560	6.975	0.099	41.258
C1	559	6.858	0.116	40.451
C1	558	6.760	0.104	39.933
C1	556	6.633	0.104	39.170
C1	540	6.500	0.104	38.377
C1	539	6.355	0.093	37.575
C1	538	6.235	0.114	36.723
C1	554	6.070	0.100	35.824
C1	553	5.963	0.100	35.180
C1	551	5.783	0.128	33.933
C1	550	5.638	0.137	33.005
C1	549	5.524	0.137	32.321
C1	548	5.422	0.142	31.677
C1	547	5.286	0.135	30.904
C1	546	5.138	0.137	30.003
C1	545	5.001	0.130	29.226
C1	544	4.903	0.135	28.609
C1	543	4.812	0.137	28.050
C1	542	4.734	0.154	27.483
C1	537	4.653	0.161	26.952
C1	536	4.550	0.154	26.380
C1	535	4.444	0.154	25.739
C1	534	4.334	0.168	24.996
C1	533	4.185	0.158	24.161
C1	532	4.079	0.149	23.581
C1	531	3.988	0.189	22.794
C1	530	3.855	0.180	22.051
C1	529	3.693	0.137	21.337
C1	528	3.602	0.140	20.772
C1	527	3.447	0.124	19.938
C1	526	3.253	0.111	18.849
C1	525	3.104	0.119	17.915
C1	524	2.934	0.104	16.980
C1	523	2.827	0.095	16.391
C1	522	2.747	0.093	15.928
C1	520	2.624	0.086	15.233
C1	521	2.622	0.093	15.179
C1	519	2.241	0.043	13.189
C1	518	2.159	0.024	12.805
C1	517	2.082	0.020	12.373
C1	516	1.933	0.013	11.519
C1	515	1.761	-0.037	10.787
C1	514	1.601	-0.046	9.882
C1	513	1.468	-0.030	8.989
C1	512	1.373	-0.023	8.372
C1	511	1.321	-0.011	7.994
C1	510	1.206	-0.018	7.343
C1	509	1.106	0.076	6.180
C1	507	0.835	0.015	4.920
C1	506	0.674	0.027	3.885
C1	505	0.618	0.045	3.438
C1	504	0.478	0.069	2.451
C1	503	0.340	0.069	1.628
C1	502	0.220	0.045	1.045
C1	501	0.098	0.034	0.385
C2	423	7.089	0.398	40.141
C2	415	6.999	0.391	39.647

SHOT POINT	RECORDER LOCATION	TRAVEL TIME (REAL)	TRAVEL TIME (T-X/6)	DISTANCE
C2	424	6.782	0.410	38.230
C2	413	6.612	0.412	37.198
C2	412	6.481	0.412	36.409
C2	615	6.236	0.424	34.869
C2	614	6.206	0.429	34.661
C2	613	6.091	0.424	33.999
C2	612	5.938	0.422	33.095
C2	611	5.820	0.424	32.375
C2	610	5.722	0.424	31.784
C2	609	5.574	0.410	30.983
C2	608	5.470	0.412	30.347
C2	606	5.266	0.455	28.867
C2	605	5.144	0.464	28.076
C2	604	5.059	0.485	27.439
C2	603	4.896	0.436	26.758
C2	602	4.881	0.464	26.498
C2	601	4.766	0.471	25.768
C2	599	4.525	0.463	24.371
C2	600	4.597	0.460	24.823
C2	597	4.265	0.464	22.806
C2	596	4.111	0.460	21.906
C2	595	4.030	0.464	21.393
C2	594	3.896	0.458	20.631
C2	592	3.620	0.429	19.147
C2	591	3.526	0.467	18.359
C2	590	3.315	0.436	17.276
C2	589	3.151	0.398	16.513
C2	588	3.040	0.398	15.851
C2	587	2.910	0.373	15.222
C2	586	2.744	0.356	14.328
C2	584	2.500	0.350	12.900
C2	583	2.391	0.314	12.462
C2	582	2.215	0.276	11.632
C2	581	2.034	0.283	10.505
C2	580	1.899	0.260	9.839
C2	579	1.764	0.238	9.155
C2	578	1.654	0.222	8.590
C2	577	1.510	0.208	7.814
C2	576	1.513	0.227	7.715
C2	575	1.372	0.189	7.097
C2	574	1.207	0.177	6.179
C2	573	1.108	0.158	5.700
C2	572	0.998	0.135	5.179
C2	571	0.859	0.116	4.458
C2	570	0.727	0.107	3.721
C2	569	0.621	0.069	3.314
C2	568	0.535	0.027	3.052
C2	567	0.521	0.047	2.839
C2	555	-0.004	-0.004	0.000
C2	566	0.499	0.027	-2.831
C2	565	0.534	0.027	-3.043
C2	564	0.605	0.050	-3.331
C2	563	0.720	0.057	-3.973
C2	562	0.875	0.100	-4.653

SHOT POINT	RECORDER LOCATION	TRAVEL TIME (REAL)	TRAVEL TIME (T-X/6)	DISTANCE
C2	561	0.977	0.100	-5.262
C2	560	1.091	0.123	-5.807
C2	559	1.225	0.135	-6.540
C2	558	1.314	0.149	-6.991
C2	556	1.452	0.158	-7.761
C2	557	1.462	0.119	-8.058
C2	540	1.583	0.158	-8.546
C2	539	1.696	0.137	-9.354
C2	538	1.838	0.130	-10.246
C2	554	1.987	0.137	-11.099
C2	553	2.083	0.116	-11.800
C2	551	2.380	0.135	-13.473
C2	550	2.536	0.130	-14.433
C2	549	2.648	0.130	-15.109
C2	548	2.759	0.128	-15.786
C2	547	2.918	0.135	-16.699
C2	546	3.064	0.137	-17.559
C2	545	3.174	0.137	-18.222
C2	544	3.273	0.142	-18.787
C2	543	3.379	0.137	-19.452
C2	542	3.495	0.130	-20.188
C2	537	3.487	0.111	-20.253
C2	536	3.567	0.130	-20.619
C2	541	3.597	0.116	-20.887
C2	535	3.691	0.154	-21.221
C2	534	3.785	0.130	-21.927
C2	533	3.913	0.119	-22.768
C2	532	4.014	0.123	-23.347
C2	530	4.306	0.158	-24.885
C2	529	4.411	0.142	-25.617
C2	528	4.514	0.147	-26.204
C2	527	4.648	0.135	-27.078
C2	526	4.865	0.158	-28.237
C2	525	5.026	0.154	-29.235
C2	524	5.219	0.196	-30.135
C2	523	5.298	0.203	-30.571
C2	522	5.362	0.196	-30.994
C2	521	5.515	0.215	-31.802
C2	520	5.551	0.220	-31.987
C2	519	5.886	0.260	-33.758
C2	518	5.943	0.257	-34.118
C2	517	6.026	0.260	-34.596
C2	516	6.210	0.288	-35.531
C2	515	6.368	0.300	-36.412
C2	514	6.509	0.295	-37.283
C2	513	6.642	0.300	-38.056
C2	512	6.750	0.311	-38.633
C2	511	6.792	0.302	-38.944
C2	510	6.903	0.307	-39.581
C2	509	7.147	0.356	-40.743
C2	507	7.349	0.325	-42.141
C2	506	7.614	0.344	-43.616
C2	505	7.781	0.283	-44.988
C2	504	7.890	0.241	-45.894

SHOT POINT	RECORDER LOCATION	TRAVEL TIME (REAL)	TRAVEL TIME (T-X/6)	DISTANCE
C2	503	7.896	0.227	-46.017
C2	502	7.930	0.210	-46.318
C2	501	7.974	0.203	-46.625
1	220	33.436	-2.466	215.410
1	216	32.910	-2.256	210.998
1	215	32.771	-2.209	209.878
1	212	30.663	-1.179	191.051
1	211	30.604	-1.155	190.555
1	210	30.500	-1.142	189.852
1	209	30.415	-1.105	189.119
1	208	30.360	-1.077	188.621
1	207	29.935	-0.910	185.068
1	206	29.861	-0.893	184.521
1	205	29.700	-0.822	183.130
1	420	30.608	0.088	183.122
1	204	29.605	-0.799	182.421
1	203	29.635	-0.661	181.775
1	202	29.543	-0.634	181.064
1	199	29.516	-0.323	179.031
1	197	29.280	-0.249	177.173
1	196	29.208	-0.211	176.512
1	195	29.096	-0.166	175.573
1	194	29.022	-0.137	174.956
1	193	28.940	-0.109	174.294
1	192	28.880	-0.080	173.757
1	191	28.780	-0.044	172.942
1	190	28.404	-0.285	172.134
1	188	28.177	-0.194	170.225
1	187	28.252	-0.004	169.536
1	186	28.137	0.027	168.661
1	184	27.785	-0.040	166.948
1	182	27.615	-0.030	165.866
1	181	27.573	-0.040	165.679
1	183	27.560	-0.035	165.568
1	180	27.406	-0.035	164.643
1	179	27.122	-0.124	163.477
1	178	27.560	0.353	163.242
1	177	27.166	0.099	162.401
1	176	27.111	0.170	161.641
1	175	26.788	0.012	160.655
1	174	26.707	0.053	159.922
1	173	26.492	0.008	158.904
1	172	26.357	-0.007	158.184
1	171	26.296	0.052	157.462
1	170	26.159	0.049	156.662
1	169	26.106	0.104	156.015
1	168	25.784	-0.014	154.786
1	167	25.642	-0.030	154.026
1	166	25.578	0.017	153.367
1	165	25.404	0.022	152.291
1	164	25.375	0.006	152.209
1	163	25.216	0.017	151.193
1	162	25.006	0.030	149.856

SHOT POINT	RECORDER LOCATION	TRAVEL TIME (REAL)	TRAVEL TIME (T-X/6)	DISTANCE
1	161	24.964	0.037	149.559
1	160	24.798	0.064	148.403
1	159	24.696	0.081	147.691
1	158	24.618	0.119	146.992
1	157	24.493	0.114	146.272
1	156	24.391	0.128	145.576
1	155	24.301	0.150	144.907
1	154	24.148	0.140	144.049
1	153	24.072	0.185	143.325
1	152	23.941	0.190	142.503
1	151	23.851	0.192	141.951
1	150	23.676	0.202	140.845
1	149	23.520	0.185	140.008
1	148	23.439	0.183	139.536
1	146	23.184	0.178	138.035
1	145	23.087	0.183	137.423
1	144	22.944	0.173	136.624
1	143	22.879	0.185	136.166
1	142	22.728	0.192	135.218
1	141	22.586	0.192	134.365
1	140	22.485	0.242	133.455
1	139	22.364	0.254	132.658
1	137	22.163	0.266	131.385
1	136	22.016	0.281	130.411
1	135	21.900	0.274	129.753
1	134	21.579	0.170	128.452
1	133	21.486	0.170	127.894
1	132	21.315	0.146	127.013
1	131	21.233	0.138	126.569
1	130	21.057	0.138	125.512
1	129	20.888	0.104	124.707
1	128	20.766	0.089	124.063
1	127	20.602	0.064	123.227
1	125	20.336	0.069	121.601
1	124	20.206	0.062	120.866
1	123	20.076	0.089	119.925
1	122	19.980	0.069	119.464
1	120	19.626	0.027	117.597
1	115	19.059	0.119	113.638
1	114	18.866	0.086	112.679
1	113	18.806	0.114	112.151
1	112	18.630	0.077	111.321
1	111	18.528	0.096	110.590
1	110	18.410	0.086	109.941
1	109	18.275	0.081	109.167
1	108	18.142	0.106	108.217
1	107	17.918	0.094	106.946
1	106	17.819	0.133	106.118
1	105	17.669	0.165	105.024
1	103	17.507	0.158	104.096
1	221	17.377	0.160	103.299
1	101	17.258	0.170	102.528
1	302	17.191	0.198	101.955
1	303	17.021	0.208	100.878

SHOT POINT	RECORDER LOCATION	TRAVEL TIME (REAL)	TRAVEL TIME (T-X/6)	DISTANCE
1	304	16.841	0.227	99.682
1	306	16.464	0.147	97.905
1	307	16.301	0.186	96.692
1	308	16.075	0.196	95.270
1	309	15.858	0.160	94.187
1	310	15.715	0.124	93.542
1	311	15.486	0.078	92.448
1	312	15.305	0.089	91.298
1	313	15.135	0.074	90.369
1	314	14.873	0.076	88.783
1	315	14.741	0.081	87.958
1	316	14.562	0.086	86.860
1	317	14.367	0.076	85.746
1	318	14.161	0.081	84.481
1	319	14.066	0.088	83.871
1	320	13.884	0.076	82.846
1	417	13.853	0.099	82.525
1	321	13.725	0.069	81.935
1	322	13.560	0.055	81.028
1	323	13.389	0.064	79.945
1	324	13.251	0.069	79.094
1	325	13.061	0.069	77.951
1	326	12.880	0.057	76.936
1	327	12.787	0.069	76.306
1	328	12.670	0.074	75.576
1	329	12.480	0.069	74.466
1	331	12.152	0.069	72.499
1	332	11.993	0.093	71.405
1	333	11.799	0.095	70.224
1	334	11.726	0.123	69.616
1	335	11.617	0.137	68.878
1	336	11.506	0.161	68.069
1	337	11.289	0.184	66.627
1	338	11.184	0.196	65.930
1	339	10.968	0.189	64.676
1	341	10.563	0.076	62.922
1	342	10.430	0.074	62.139
1	343	10.221	0.055	60.994
1	344	9.984	0.055	59.575
1	345	9.841	0.050	58.744
1	346	9.679	0.043	57.813
1	416	9.626	0.024	57.612
1	347	9.504	0.024	56.875
1	348	9.390	0.057	55.997
1	349	9.180	0.050	54.779
1	350	9.061	0.088	53.836
1	351	8.947	0.095	53.115
1	352	8.827	0.147	52.079
1	353	8.687	0.147	51.242
1	354	8.544	0.158	50.315
1	355	8.350	0.093	49.544
1	356	8.255	0.116	48.835
1	359	7.807	0.161	45.874
1	360	7.594	0.130	44.783

SHOT POINT	RECORDER LOCATION	TRAVEL TIME (REAL)	TRAVEL TIME (T-X/6)	DISTANCE
1	361	7.407	0.128	43.673
1	362	7.310	0.170	42.837
1	363	7.158	0.180	41.872
1	365	6.849	0.177	40.032
1	366	6.733	0.245	38.928
1	367	6.510	0.203	37.841
1	369	6.225	0.222	36.020
1	370	6.123	0.260	35.182
1	371	5.915	0.245	34.019
1	372	5.762	0.250	33.073
1	373	5.574	0.234	32.044
1	374	5.482	0.281	31.205
1	375	5.299	0.252	30.282
1	376	5.121	0.247	29.240
1	377	4.873	0.177	28.177
1	378	4.760	0.166	27.566
1	379	4.563	0.017	27.279
1	382	4.411	0.149	25.572
1	383	4.244	0.147	24.586
1	384	4.108	0.149	23.755
1	386	3.813	0.137	22.053
1	387	3.569	0.142	20.564
1	388	3.419	0.137	19.691
1	389	3.300	0.154	18.878
1	390	3.179	0.135	18.265
1	391	3.041	0.173	17.213
1	392	2.856	0.154	16.215
1	393	2.692	0.130	15.368
1	394	2.479	0.137	14.051
1	395	2.347	0.119	13.369
1	396	2.215	0.128	12.520
1	397	1.977	0.107	11.222
1	398	1.829	0.104	10.347
1	399	1.683	0.119	9.386
1	400	1.498	0.111	8.319
1	401	1.351	0.093	7.551
1	402	1.193	0.081	6.676
1	403	1.013	0.074	5.636
1	404	0.866	0.074	4.750
1	405	0.691	0.069	3.734
1	406	0.560	0.074	2.915
1	408	0.338	0.050	1.729
1	421	0.068	-0.040	0.643
1	422	0.006	-0.004	0.059
1	423	0.155	0.013	-0.852
1	415	0.317	0.045	-1.629
1	424	0.462	0.038	-2.539
1	413	0.630	0.034	-3.578
1	412	0.787	0.038	-4.492
1	614	1.122	0.086	-6.221
1	615	1.209	0.104	-6.628
1	613	1.249	0.081	-7.009
1	612	1.392	0.088	-7.826
1	611	1.501	0.100	-8.408

SHOT POINT	RECORDER LOCATION	TRAVEL TIME (REAL)	TRAVEL TIME (T-X/6)	DISTANCE
1	610	1.599	0.107	-8.954
1	609	1.729	0.104	-9.750
1	608	1.830	0.100	-10.385
1	606	2.125	0.147	-11.869
1	605	2.252	0.142	-12.658
1	604	2.350	0.135	-13.293
1	603	2.452	0.111	-14.043
1	602	2.478	0.081	-14.383
1	602	2.565	0.168	-14.383
1	601	2.584	0.081	-15.018
1	600	2.748	0.093	-15.932
1	599	2.815	0.088	-16.361
1	597	3.089	0.100	-17.935
1	596	3.246	0.107	-18.836
1	595	3.340	0.116	-19.344
1	594	3.483	0.128	-20.133
1	592	3.768	0.166	-21.617
1	591	3.932	0.196	-22.416
1	590	4.130	0.220	-23.464
1	589	4.242	0.203	-24.232
1	588	4.352	0.203	-24.892
1	587	4.459	0.208	-25.510
1	586	4.623	0.222	-26.407
1	584	4.885	0.238	-27.879
1	583	4.984	0.260	-28.345
1	582	5.154	0.289	-29.193
1	581	5.350	0.307	-30.259
1	580	5.465	0.311	-30.922
1	579	5.591	0.318	-31.634
1	578	5.709	0.325	-32.304
1	577	5.853	0.329	-33.140
1	576	5.949	0.342	-33.644
1	575	6.165	0.344	-34.927
1	574	6.347	0.356	-35.944
1	573	6.456	0.373	-36.500
1	572	6.599	0.391	-37.244
1	571	6.685	0.382	-37.818
1	570	6.842	0.398	-38.660
1	568	7.039	0.375	-39.985
1	567	7.208	0.424	-40.703
1	566	7.296	0.391	-41.427
1	565	7.434	0.398	-42.216
1	564	7.540	0.403	-42.823
1	563	7.696	0.394	-43.817
1	562	7.856	0.424	-44.589
1	561	7.962	0.422	-45.243
1	560	8.078	0.429	-45.894
1	559	8.232	0.441	-46.748
1	558	8.351	0.448	-47.418
1	557	8.383	0.424	-47.750
1	556	8.447	0.429	-48.111
1	540	8.560	0.401	-48.955
1	539	8.669	0.365	-49.819
1	538	8.814	0.349	-50.790

SHOT POINT	RECORDER LOCATION	TRAVEL TIME (REAL)	TRAVEL TIME (T-X/6)	DISTANCE
1	554	8.933	0.356	-51.462
1	553	8.985	0.342	-51.857
1	551	9.182	0.380	-52.814
1	550	9.321	0.368	-53.721
1	549	9.429	0.363	-54.397
1	548	9.544	0.373	-55.028
1	547	9.667	0.370	-55.780
1	546	9.826	0.380	-56.681
1	545	9.933	0.356	-57.463
1	544	10.041	0.361	-58.083
1	543	10.132	0.361	-58.630
1	542	10.215	0.349	-59.199
1	541	10.300	0.344	-59.736
1	537	10.432	0.302	-60.783
1	536	10.453	0.290	-60.974
1	535	10.556	0.307	-61.499
1	534	10.630	0.290	-62.040
1	533	10.737	0.276	-62.767
1	532	10.845	0.288	-63.346
1	530	11.101	0.263	-65.029
1	529	11.228	0.263	-65.793
1	528	11.351	0.283	-66.410
1	527	11.509	0.289	-67.322
1	526	11.704	0.283	-68.524
1	525	11.867	0.276	-69.546
1	524	12.048	0.314	-70.403
1	523	12.111	0.333	-70.672
1	522	12.158	0.335	-70.940
1	520	12.288	0.380	-71.451
1	521	12.263	0.340	-71.541
1	519	12.686	0.391	-73.770
1	518	12.726	0.391	-74.007
1	517	12.792	0.403	-74.336
1	516	12.960	0.434	-75.160
1	515	13.088	0.436	-75.914
1	514	13.232	0.429	-76.816
1	513	13.370	0.422	-77.691
1	512	13.469	0.417	-78.308
1	511	13.525	0.405	-78.716
1	510	13.623	0.391	-79.392
1	509	13.870	0.455	-80.493
1	507	14.064	0.391	-82.035
1	506	14.319	0.386	-83.598
1	505	14.462	0.288	-85.045
1	504	14.570	0.257	-85.874
1	503	14.580	0.264	-85.893
1	502	14.596	0.241	-86.129
1	501	14.607	0.215	-86.353
2	420	26.118	0.104	156.080
2	419	22.056	0.208	131.088
2	418	18.684	0.429	109.531
2	101	12.850	0.276	75.446
2	302	12.761	0.283	74.865

SHOT POINT	RECORDER LOCATION	TRAVEL TIME (REAL)	TRAVEL TIME (T-X/6)	DISTANCE
3A	420	21.252	0.314	125.633
3A	419	17.157	0.382	100.652
3A	418	13.669	0.467	79.214
3A	301	7.854	0.342	45.074
3A	302	7.749	0.330	44.512
3A	303	7.570	0.333	43.425
3A	304	7.367	0.330	42.221
3A	306	7.089	0.344	40.466
3A	307	6.883	0.342	39.245
3A	308	6.613	0.311	37.813
3A	309	6.413	0.290	36.735
3A	310	6.305	0.290	36.086
3A	311	6.130	0.295	35.008
3A	312	5.911	0.269	33.854
3A	313	5.724	0.241	32.897
3A	314	5.475	0.257	31.307
3A	315	5.334	0.252	30.488
3A	316	5.152	0.252	29.398
3A	317	4.950	0.234	28.298
3A	318	4.736	0.229	27.039
3A	319	4.638	0.238	26.397
3A	320	4.454	0.222	25.391
3A	417	4.445	0.273	25.033
3A	321	4.300	0.220	24.482
3A	322	4.154	0.227	23.563
3A	323	3.961	0.229	22.390
3A	324	3.812	0.220	21.556
3A	325	3.629	0.227	20.412
3A	326	3.448	0.222	19.355
3A	327	3.342	0.215	18.764
3A	329	3.013	0.189	16.946
3A	331	2.659	0.161	14.988
3A	332	2.507	0.177	13.980
3A	333	2.314	0.168	12.874
3A	334	2.223	0.173	12.302
3A	335	2.109	0.161	11.686
3A	336	2.031	0.180	11.110
3A	337	1.824	0.173	9.908
3A	338	1.699	0.189	9.062
3A	339	1.477	0.149	7.965
3A	341	1.052	0.116	5.616
3A	342	0.898	0.119	4.675
3A	343	0.668	0.100	3.413
3A	344	0.404	0.076	1.966
3A	345	0.253	0.064	1.132
3A	346	0.106	0.043	0.378
3A	416	0.013	0.013	0.000
3A	347	0.256	0.020	-1.417
3A	348	0.404	0.024	-2.276
3A	349	0.576	-0.006	-3.493
3A	350	0.754	0.008	-4.477
3A	351	0.830	-0.018	-5.087
3A	352	0.963	-0.018	-5.889
3A	353	1.056	-0.016	-6.431

SHOT POINT	RECORDER LOCATION	TRAVEL TIME (REAL)	TRAVEL TIME (T-X/6)	DISTANCE
3A	354	1.190	-0.030	-7.317
3A	355	1.352	-0.034	-8.319
3A	356	1.539	-0.053	-9.556
3A	357	1.700	-0.060	-10.560
3A	358	1.848	-0.060	-11.449
3A	359	2.017	-0.053	-12.424
3A	360	2.181	-0.060	-13.448
3A	361	2.375	-0.049	-14.539
3A	362	2.537	-0.041	-15.474
3A	363	2.731	-0.018	-16.494
3A	366	3.254	-0.011	-19.587
3A	367	3.370	-0.053	-20.541
3A	368	3.461	-0.065	-21.155
3A	369	3.642	-0.072	-22.282
3A	370	3.802	-0.016	-22.908
3A	371	3.939	-0.046	-23.912
3A	372	4.021	-0.106	-24.762
3A	373	4.189	-0.098	-25.723
3A	374	4.331	-0.077	-26.447
3A	375	4.549	-0.011	-27.356
3A	376	4.758	0.027	-28.387
3A	377	4.907	0.001	-29.435
3A	378	4.983	-0.030	-30.078
3A	379	5.046	-0.041	-30.528
3A	382	5.354	0.013	-32.048
3A	383	5.482	-0.023	-33.027
3A	384	5.621	-0.023	-33.862
3A	386	5.896	-0.034	-35.584
3A	387	6.168	-0.016	-37.103
3A	388	6.306	-0.018	-37.942
3A	389	6.420	-0.037	-38.743
3A	390	6.503	-0.058	-39.368
3A	391	6.688	-0.046	-40.408
3A	392	6.864	-0.037	-41.408
3A	393	7.011	-0.030	-42.244
3A	394	7.206	-0.055	-43.565
3A	395	7.299	-0.076	-44.247
3A	396	7.440	-0.076	-45.094
3A	397	7.682	-0.050	-46.393
3A	398	7.843	-0.035	-47.265
3A	399	8.024	-0.014	-48.230
3A	400	8.202	-0.014	-49.298
3A	401	8.330	-0.014	-50.064
3A	402	8.455	-0.035	-50.937
3A	404	8.857	0.045	-52.866
3A	405	9.014	0.031	-53.898
3A	406	9.157	0.031	-54.752
3A	408	9.447	0.050	-56.378
3A	421	9.547	0.008	-57.236
3A	422	9.626	0.015	-57.663
3A	423	9.710	0.015	-58.172
3A	415	9.790	0.015	-58.651
3A	424	10.043	0.020	-60.139
3A	413	10.197	0.001	-61.177

SHOT POINT	RECORDER LOCATION	TRAVEL TIME (REAL)	TRAVEL TIME (T-X/6)	DISTANCE
2	303	12.594	0.295	73.795
2	304	12.312	0.210	72.608
2	306	12.033	0.232	70.803
2	307	11.821	0.222	69.596
2	308	11.536	0.178	68.181
2	309	11.362	0.180	67.092
2	310	11.230	0.155	66.450
2	311	11.093	0.203	65.340
2	312	10.878	0.180	64.191
2	313	10.671	0.123	63.289
2	314	10.412	0.128	61.705
2	315	10.276	0.130	60.872
2	316	10.103	0.142	59.763
2	317	9.920	0.147	58.638
2	318	9.716	0.155	57.367
2	319	9.594	0.130	56.783
2	320	9.420	0.130	55.740
2	417	9.373	0.130	55.460
2	321	9.273	0.135	54.827
2	322	9.135	0.147	53.928
2	323	8.935	0.147	52.730
2	324	8.794	0.149	51.872
2	325	8.628	0.173	50.732
2	326	8.389	0.099	49.743
2	327	8.329	0.147	49.091
2	328	8.207	0.149	48.351
2	329	8.004	0.130	47.246
2	331	7.675	0.128	45.280
2	332	7.503	0.142	44.166
2	333	7.274	0.111	42.974
2	334	7.149	0.088	42.364
2	335	7.012	0.076	41.613
2	336	6.860	0.062	40.789
2	337	6.638	0.081	39.341
2	338	6.542	0.100	38.652
2	339	6.267	0.034	37.397
2	341	5.951	0.001	35.702
2	342	5.845	0.020	34.952
2	343	5.661	0.020	33.850
2	344	5.427	0.015	32.474
2	345	5.284	0.012	31.637
2	346	5.111	-0.011	30.734
2	416	5.055	-0.030	30.508
2	347	4.964	-0.016	29.880
2	348	4.863	0.022	29.047
2	349	4.685	0.037	27.889
2	350	4.588	0.088	26.999
2	351	4.473	0.093	26.283
2	352	4.307	0.104	25.214
2	353	4.127	0.086	24.250
2	354	3.953	0.088	23.192
2	355	3.819	0.100	22.319
2	356	3.714	0.123	21.547
2	357	3.555	0.147	20.447
2	359	3.246	0.149	18.581
2	360	3.080	0.165	17.490
2	361	2.921	0.191	16.378
2	362	2.768	0.177	15.543
2	363	2.596	0.166	14.585
2	365	2.292	0.161	12.785
2	366	2.165	0.215	11.698
2	367	1.939	0.173	10.599
2	368	1.835	0.180	9.931
2	369	1.631	0.166	8.793
2	370	1.537	0.220	7.906
2	371	1.305	0.184	6.724
2	372	1.153	0.189	5.786
2	373	0.984	0.186	4.787
2	374	0.900	0.201	4.191
2	375	0.714	0.145	3.413
2	376	0.595	0.154	2.646
2	377	0.466	0.057	2.452
2	378	0.269	0.031	1.425
2	379	0.005	0.001	0.024
2	380	0.451	0.055	-2.375
2	382	0.650	0.107	-3.259
2	383	0.696	0.093	-3.618
2	384	0.784	0.123	-3.965
2	386	1.024	0.128	-5.375
2	387	1.272	0.145	-6.763
2	388	1.447	0.166	-7.688
2	389	1.569	0.147	-8.533
2	390	1.645	0.130	-9.090
2	391	1.860	0.166	-10.164
2	392	2.018	0.161	-11.142
2	393	2.147	0.135	-12.071
2	394	2.376	0.142	-13.406
2	395	2.477	0.130	-14.080
2	396	2.618	0.135	-14.897
2	397	2.843	0.147	-16.178
2	398	2.991	0.154	-17.023
2	399	3.180	0.180	-18.001
2	400	3.345	0.168	-19.061
2	401	3.467	0.166	-19.810
2	402	3.599	0.158	-20.643
2	403	3.776	0.161	-21.690
2	404	3.954	0.189	-22.591
2	405	4.092	0.166	-23.562
2	406	4.246	0.180	-24.397
2	408	4.506	0.177	-25.973
2	421	4.638	0.158	-26.878
2	422	4.718	0.161	-27.344
2	423	4.813	0.161	-27.911
2	415	4.919	0.177	-28.449
2	424	5.138	0.173	-29.793
2	413	5.296	0.158	-30.826
2	412	5.426	0.154	-31.634

SHOT POINT	RECORDER LOCATION	TRAVEL TIME (REAL)	TRAVEL TIME (T-X/6)	DISTANCE
3A	412	10.331	-0.006	-62.024
3B	420	17.240	0.452	100.727
3B	418	9.530	0.490	54.240
3B	101	3.601	0.260	20.046
3B	302	3.501	0.252	19.494
3B	303	3.317	0.250	18.399
3B	304	3.106	0.241	17.190
3B	306	2.830	0.252	15.466
3B	307	2.611	0.238	14.237
3B	308	2.352	0.220	12.795
3B	309	2.135	0.180	11.729
3B	310	2.026	0.180	11.075
3B	311	1.862	0.189	10.041
3B	312	1.635	0.154	8.889
3B	313	1.428	0.116	7.872
3B	314	1.154	0.107	6.281
3B	315	1.025	0.111	5.479
3B	316	0.839	0.100	4.438
3B	317	0.641	0.064	3.460
3B	318	0.467	0.069	2.388
3B	319	0.305	0.057	1.485
3B	320	0.229	0.038	1.140
3B	417	0.046	0.045	0.000
3B	321	0.259	0.045	-1.279
3B	322	0.359	0.069	-1.740
3B	323	0.544	0.057	-2.921
3B	324	0.728	0.095	-3.798
3B	325	0.926	0.116	-4.861
3B	326	1.092	0.137	-5.727
3B	327	1.222	0.149	-6.438
3B	328	1.362	0.158	-7.222
3B	329	1.534	0.154	-8.284
3B	331	1.877	0.173	-10.226
3B	332	2.060	0.158	-11.407
3B	333	2.271	0.166	-12.636
3B	334	2.406	0.196	-13.257
3B	335	2.531	0.184	-14.080
3B	336	2.688	0.180	-15.048
3B	337	2.962	0.203	-16.552
3B	338	3.056	0.208	-17.089
3B	339	3.255	0.198	-18.337
3B	341	3.505	0.210	-19.770
3B	342	3.638	0.220	-20.509
3B	343	3.817	0.210	-21.642
3B	344	4.075	0.229	-23.076
3B	345	4.205	0.222	-23.901
3B	416	4.406	0.234	-25.033
3B	347	4.535	0.227	-25.847
3B	348	4.671	0.210	-26.764
3B	349	4.832	0.161	-28.028
3B	350	4.990	0.154	-29.015
3B	351	5.080	0.126	-29.726
3B	352	5.241	0.123	-30.708
3B	353	5.358	0.119	-31.439
3B	354	5.498	0.111	-32.321
3B	355	5.654	0.130	-33.142
3B	356	5.735	0.064	-34.026
3B	357	5.922	0.069	-35.115
3B	359	6.249	0.081	-37.010
3B	360	6.422	0.074	-38.090
3B	361	6.622	0.088	-39.207
3B	362	6.810	0.126	-40.104
3B	363	6.980	0.128	-41.112
3B	365	7.335	0.156	-43.071
3B	366	7.511	0.147	-44.188
3B	367	7.647	0.111	-45.213
3B	368	7.750	0.107	-45.857
3B	369	7.916	0.081	-47.009
3B	370	8.028	0.074	-47.722
3B	371	8.201	0.069	-48.794
3B	372	8.326	0.045	-49.684
3B	373	8.449	0.003	-50.674
3B	374	8.606	0.031	-51.446
3B	375	8.843	0.116	-52.363
3B	376	9.007	0.107	-53.400
3B	377	9.176	0.100	-54.460
3B	378	9.250	0.069	-55.083
3B	379	9.311	0.064	-55.478
3B	382	9.613	0.100	-57.079
3B	383	9.752	0.076	-58.055
3B	384	9.878	0.064	-58.882
3B	386	10.164	0.064	-60.595
3B	387	10.443	0.093	-62.105
3B	388	10.573	0.081	-62.955
3B	389	10.670	0.043	-63.761
3B	390	10.743	0.013	-64.381
3B	391	10.931	0.027	-65.426
3B	392	11.126	0.055	-66.426
3B	393	11.285	0.074	-67.270
3B	394	11.513	0.081	-68.593
3B	395	11.620	0.074	-69.275
3B	396	11.756	0.069	-70.121
3B	397	11.991	0.088	-71.420
3B	398	12.125	0.076	-72.291
3B	399	12.309	0.100	-73.258
3B	400	12.473	0.086	-74.326
3B	401	12.603	0.088	-75.091
3B	402	12.746	0.086	-75.960
3B	403	12.910	0.076	-77.001
3B	404	13.077	0.095	-77.893
3B	405	13.239	0.086	-78.919
3B	406	13.390	0.095	-79.770
3B	408	13.652	0.107	-81.273
3B	421	13.806	0.116	-82.142
3B	422	13.832	0.069	-82.576
3B	423	13.906	0.057	-83.091
3B	415	13.974	0.045	-83.574

SHOT POINT	RECORDER LOCATION	TRAVEL TIME (REAL)	TRAVEL TIME (T-X/6)	DISTANCE
3B	424	14.231	0.057	-85.044
3B	413	14.402	0.055	-86.081
3B	412	14.548	0.062	-86.917
3B	615	14.908	0.130	-88.669
3B	613	14.983	0.086	-89.387
3B	612	15.124	0.081	-90.261
3B	611	15.221	0.069	-90.912
3B	610	15.229	-0.016	-91.465
3B	609	15.351	-0.023	-92.245
3B	608	15.463	-0.018	-92.887
3B	606	15.920	0.191	-94.373
3B	605	16.049	0.189	-95.158
3B	604	16.122	0.158	-95.781
3B	603	16.205	0.130	-96.447
3B	602	16.238	0.095	-96.861
3B	601	16.318	0.064	-97.520
3B	600	16.475	0.069	-98.434
3B	597	16.905	0.173	-100.395
3B	596	16.992	0.104	-101.329
3B	595	17.145	0.177	-101.809
3B	594	17.236	0.142	-102.565
3B	593	17.357	0.154	-103.219
3B	592	17.594	0.252	-104.048
3B	591	17.669	0.196	-104.837
3B	590	17.893	0.241	-105.916
3B	589	17.959	0.180	-106.677
3B	588	18.058	0.168	-107.338
3B	587	18.180	0.184	-107.976
3B	586	18.363	0.220	-108.861
3B	584	18.593	0.210	-110.295
3B	583	18.661	0.203	-110.746
3B	581	19.070	0.290	-112.684
3B	580	19.150	0.259	-113.348
3B	579	19.277	0.269	-114.046
3B	576	19.609	0.290	-115.916
3B	574	20.000	0.311	-118.134
3B	573	20.089	0.307	-118.697
3B	572	20.207	0.300	-119.440
3B	571	20.334	0.325	-120.054
3B	570	20.490	0.337	-120.920
3B	569	20.606	0.330	-121.654
3B	568	20.694	0.318	-122.254
3B	567	20.797	0.300	-122.980
3B	566	20.970	0.351	-123.710
3B	565	21.041	0.290	-124.505
3B	564	21.112	0.260	-125.115
3B	563	21.290	0.271	-126.114
3B	562	21.385	0.238	-126.878
3B	561	21.502	0.249	-127.522
3B	559	21.766	0.260	-129.036
3B	558	21.906	0.283	-129.740
3B	557	21.929	0.276	-129.919
3B	556	21.983	0.249	-130.408
3B	540	22.218	0.342	-131.255
3B	539	22.255	0.234	-132.126
3B	538	22.419	0.234	-133.113
3B	554	22.514	0.227	-133.722
3B	553	22.483	0.146	-134.024
3B	551	22.670	0.210	-134.761
3B	550	22.853	0.249	-135.628
3B	549	22.934	0.220	-136.284
3B	548	23.024	0.210	-136.883
3B	547	23.145	0.218	-137.561
3B	546	23.313	0.238	-138.447
3B	545	23.430	0.222	-139.248
3B	544	23.520	0.208	-139.870
3B	543	23.608	0.215	-140.360
3B	542	23.685	0.210	-140.850
3B	541	23.710	0.158	-141.310
3B	536	23.971	0.116	-143.132
3B	534	24.124	0.111	-144.075
3B	533	24.230	0.107	-144.740
3B	532	24.330	0.111	-145.311
3B	530	24.581	0.074	-147.041
3B	529	24.710	0.074	-147.811
3B	528	24.834	0.095	-148.438
3B	525	25.389	0.123	-151.600
3B	524	25.511	0.107	-152.424
3B	520	25.618	0.116	-153.008
3B	517	26.382	0.382	-155.997
3B	515	26.658	0.423	-157.408
3B	514	26.788	0.403	-158.312
3B	513	26.921	0.382	-159.235
3B	512	27.027	0.382	-159.867
3B	511	27.104	0.382	-160.331
3B	510	27.233	0.395	-161.023
3B	509	27.436	0.408	-162.170
3B	507	27.645	0.345	-163.797
3B	506	27.807	0.239	-165.411
3B	505	27.990	0.173	-166.904
3B	503	28.050	0.116	-167.601
3B	504	28.045	0.101	-167.664
3B	502	28.049	0.085	-167.784
3B	501	28.041	0.050	-167.942
4	220	19.433	0.524	113.453
4	218	19.031	0.586	110.668
4	216	18.758	0.621	108.826
4	215	18.585	0.638	107.680
4	214	17.522	0.665	101.142
4	213	16.875	0.685	97.137
4	212	15.248	0.449	88.796
4	211	15.168	0.454	88.288
4	210	15.054	0.458	87.573
4	209	14.931	0.458	86.837
4	208	14.859	0.468	86.344
4	207	14.271	0.466	82.829
4	206	14.197	0.481	82.296

SHOT POINT	RECORDER LOCATION	TRAVEL TIME (REAL)	TRAVEL TIME (T-X/6)	DISTANCE
4	420	13.998	0.516	80.890
4	205	13.977	0.498	80.877
4	204	13.857	0.488	80.214
4	203	13.756	0.481	79.654
4	202	13.631	0.481	78.905
4	201	13.541	0.500	78.246
4	199	13.319	0.512	76.841
4	197	13.055	0.549	75.033
4	196	12.957	0.557	74.404
4	195	12.796	0.552	73.467
4	194	12.686	0.552	72.807
4	193	12.569	0.552	72.100
4	192	12.491	0.562	71.576
4	191	12.364	0.569	70.768
4	190	12.213	0.564	69.894
4	188	11.895	0.557	68.027
4	187	11.779	0.562	67.303
4	186	11.618	0.552	66.397
4	184	11.358	0.562	64.776
4	182	11.172	0.557	63.691
4	183	11.075	0.517	63.347
4	180	10.967	0.530	62.621
4	179	10.775	0.537	61.425
4	178	10.700	0.525	61.053
4	177	10.549	0.520	60.176
4	176	10.421	0.525	59.380
4	175	10.241	0.505	58.414
4	174	10.159	0.542	57.700
4	173	9.955	0.512	56.653
4	172	9.844	0.520	55.944
4	171	9.733	0.525	55.250
4	170	9.600	0.525	54.450
4	169	9.502	0.535	53.801
4	168	9.298	0.537	52.564
4	167	9.168	0.530	51.827
4	166	9.055	0.525	51.182
4	165	8.875	0.530	50.073
4	164	8.843	0.518	49.951
4	163	8.658	0.510	48.884
4	162	8.419	0.498	47.528
4	161	8.391	0.510	47.287
4	160	8.184	0.491	46.162
4	159	8.052	0.486	45.400
4	158	7.964	0.518	44.676
4	157	7.810	0.483	43.963
4	156	7.685	0.478	43.239
4	155	7.574	0.483	42.544
4	154	7.431	0.483	41.687
4	153	7.302	0.478	40.945
4	152	7.147	0.466	40.088
4	151	7.028	0.446	39.489
4	150	6.858	0.458	38.397
4	149	6.716	0.449	37.606
4	148	6.639	0.441	37.189
4	146	6.388	0.426	35.769
4	145	6.276	0.417	35.157
4	144	6.133	0.407	34.359
4	143	6.060	0.414	33.874
4	142	5.885	0.407	32.871
4	141	5.723	0.384	32.028
4	140	5.589	0.389	31.197
4	139	5.441	0.384	30.340
4	138	5.310	0.377	29.598
4	137	5.187	0.362	28.945
4	136	5.000	0.338	27.976
4	135	4.893	0.343	27.299
4	134	4.636	0.311	25.953
4	133	4.531	0.293	25.428
4	132	4.382	0.279	24.620
4	131	4.327	0.286	24.249
4	130	4.131	0.266	23.187
4	129	3.984	0.261	22.334
4	128	3.851	0.242	21.657
4	127	3.689	0.224	20.786
4	125	3.366	0.183	19.100
4	124	3.257	0.192	18.387
4	123	3.112	0.197	17.486
4	122	3.037	0.197	17.039
4	121	2.930	0.192	16.424
4	120	2.749	0.185	15.383
4	119	2.706	0.214	14.947
4	222	2.529	0.197	13.989
4	116	2.217	0.183	12.210
4	115	2.082	0.173	11.455
4	114	1.994	0.222	10.632
4	113	1.799	0.158	9.846
4	112	1.637	0.138	8.995
4	111	1.505	0.133	8.230
4	110	1.411	0.133	7.668
4	109	1.303	0.121	7.094
4	108	1.113	0.106	6.042
4	107	0.916	0.077	5.039
4	106	0.757	0.086	4.024
4	105	0.617	0.069	3.286
4	104	0.407	0.013	2.368
4	103	0.330	0.034	1.781
4	221	0.223	0.019	1.224
4	101	0.018	0.013	-0.032
4	302	0.150	0.031	-0.712
4	303	0.333	0.055	-1.668
4	304	0.549	0.069	-2.878
4	306	0.905	0.123	-4.691
4	307	1.147	0.168	-5.873
4	308	1.379	0.166	-7.283
4	309	1.580	0.184	-8.372
4	310	1.682	0.180	-9.014
4	311	1.899	0.210	-10.132
4	312	2.075	0.196	-11.276

SHOT POINT	RECORDER LOCATION	TRAVEL TIME (REAL)	TRAVEL TIME (T-X/6)	DISTANCE
4	313	2.266	0.234	-12.193
4	314	2.517	0.220	-13.784
4	315	2.661	0.227	-14.604
4	316	2.851	0.234	-15.703
4	317	3.043	0.238	-16.826
4	318	3.273	0.257	-18.097
4	319	3.385	0.269	-18.697
4	320	3.557	0.269	-19.725
4	417	3.585	0.241	-20.063
4	321	3.711	0.271	-20.638
4	322	3.881	0.290	-21.543
4	323	4.060	0.271	-22.735
4	324	4.227	0.295	-23.591
4	325	4.422	0.300	-24.732
4	326	4.604	0.314	-25.743
4	327	4.728	0.333	-26.374
4	329	5.028	0.325	-28.218
4	331	5.349	0.318	-30.185
4	332	5.507	0.290	-31.301
4	333	5.705	0.288	-32.502
4	334	5.810	0.290	-33.116
4	335	5.948	0.300	-33.890
4	336	6.109	0.314	-34.771
4	337	6.362	0.320	-36.255
4	338	6.465	0.317	-36.884
4	339	6.675	0.317	-38.144
4	341	6.938	0.310	-39.764
4	342	7.074	0.317	-40.538
4	343	7.259	0.310	-41.694
4	344	7.509	0.320	-43.136
4	345	7.639	0.313	-43.959
4	346	7.814	0.329	-44.907
4	416	7.844	0.329	-45.091
4	347	7.957	0.306	-45.909
4	348	8.086	0.282	-46.822
4	349	8.246	0.233	-48.083
4	350	8.405	0.228	-49.065
4	351	8.498	0.202	-49.778
4	352	8.658	0.197	-50.766
4	353	8.779	0.195	-51.501
4	354	8.918	0.190	-52.366
4	355	9.041	0.183	-53.149
4	356	9.166	0.172	-53.965
4	357	9.336	0.160	-55.060
4	358	9.498	0.164	-56.002
4	359	9.667	0.176	-56.949
4	360	9.905	0.232	-58.035
4	361	10.115	0.256	-59.153
4	362	10.276	0.270	-60.035
4	363	10.461	0.289	-61.034
4	366	11.011	0.329	-64.090
4	367	11.131	0.276	-65.132
4	368	11.232	0.268	-65.784
4	369	11.435	0.278	-66.939
4	370	11.564	0.283	-67.682
4	371	11.685	0.222	-68.776
4	372	11.794	0.181	-69.681
4	373	11.956	0.176	-70.682
4	374	12.119	0.206	-71.477
4	376	12.523	0.283	-73.437
4	377	12.614	0.196	-74.505
4	378	12.715	0.196	-75.115
4	380	12.894	0.356	-75.227
4	379	12.776	0.196	-75.482
4	382	13.092	0.237	-77.130
4	383	13.193	0.176	-78.103
4	384	13.370	0.217	-78.923
4	386	13.688	0.268	-80.523
4	387	13.977	0.307	-82.023
4	388	14.040	0.227	-82.882
4	389	14.225	0.276	-83.691
4	390	14.301	0.250	-84.306
4	391	14.471	0.245	-85.354
4	392	14.633	0.241	-86.351
4	393	14.767	0.234	-87.203
4	394	14.981	0.227	-88.526
4	395	15.083	0.215	-89.208
4	396	15.231	0.222	-90.051
4	397	15.446	0.222	-91.347
4	398	15.596	0.227	-92.216
4	399	15.760	0.229	-93.183
4	400	15.918	0.210	-94.249
4	401	16.038	0.203	-95.012
4	402	16.194	0.215	-95.877
4	403	16.363	0.210	-96.917
4	405	16.691	0.220	-98.826
4	406	16.853	0.241	-99.673
4	408	17.106	0.227	-101.277
4	421	17.245	0.220	-102.155
4	422	17.276	0.177	-102.594
4	423	17.326	0.140	-103.115
4	415	17.416	0.149	-103.603
4	424	17.675	0.166	-105.060
4	413	17.836	0.154	-106.095
4	412	18.024	0.203	-106.926
4	614	18.278	0.172	-108.637
4	613	18.408	0.184	-109.348
4	612	18.551	0.180	-110.226
4	609	18.833	0.129	-112.227
4	608	18.924	0.113	-112.868
4	606	19.219	0.160	-114.353
4	605	19.323	0.133	-115.139
4	604	19.423	0.129	-115.764
4	603	19.504	0.097	-116.437
4	602	19.573	0.101	-116.829
4	601	19.660	0.078	-117.494
4	600	19.833	0.097	-118.412
4	597	20.161	0.097	-120.382

SHOT POINT	RECORDER LOCATION	TRAVEL TIME (REAL)	TRAVEL TIME (T-X/6)	DISTANCE
4	596	20.331	0.113	-121.310
4	594	20.554	0.129	-122.554
4	592	20.821	0.148	-124.037
4	591	20.969	0.164	-124.827
4	590	21.156	0.172	-125.904
4	589	21.291	0.180	-126.665
4	588	21.412	0.191	-127.326
4	587	21.542	0.215	-127.961
4	586	21.698	0.223	-128.848
4	584	21.929	0.215	-130.286
4	583	22.001	0.211	-130.738
4	582	22.172	0.243	-131.579
4	580	22.489	0.266	-133.338
4	579	22.625	0.286	-134.037
4	577	22.856	0.274	-135.496
4	576	22.956	0.304	-135.913
4	575	23.200	0.350	-137.098
4	574	23.377	0.355	-138.132
4	573	23.433	0.317	-138.695
4	572	23.553	0.313	-139.438
4	571	23.635	0.293	-140.052
4	570	23.772	0.286	-140.917
4	569	23.882	0.274	-141.652
4	568	23.943	0.235	-142.251
4	567	24.115	0.286	-142.977
4	566	24.202	0.250	-143.707
4	565	24.338	0.254	-144.502
4	564	24.396	0.211	-145.112
4	563	24.563	0.211	-146.111
4	562	24.682	0.203	-146.875
4	561	24.798	0.211	-147.519
4	559	25.127	0.289	-149.033
4	558	25.159	0.203	-149.736
4	557	25.185	0.199	-149.917
4	540	25.412	0.203	-151.252
4	539	25.555	0.201	-152.123
4	538	25.729	0.211	-153.109
4	554	25.835	0.215	-153.719
4	553	25.874	0.203	-154.022
4	551	26.016	0.223	-154.756
4	550	26.168	0.231	-155.621
4	549	26.278	0.232	-156.277
4	548	26.369	0.223	-156.875
4	547	26.489	0.231	-157.550
4	546	26.637	0.231	-158.436
4	545	26.743	0.203	-159.237
4	544	26.815	0.172	-159.859
4	543	26.877	0.152	-160.347
4	542	26.954	0.148	-160.834
4	541	27.014	0.133	-161.290
4	536	27.286	0.097	-163.130
4	535	27.366	0.097	-163.613
4	534	27.435	0.090	-164.071
4	533	27.526	0.070	-164.735
4	532	27.621	0.070	-165.305
4	531	27.778	0.073	-166.227
4	530	27.882	0.042	-167.036
4	529	28.038	0.070	-167.807
4	528	28.091	0.019	-168.433
4	527	28.191	-0.035	-169.355
4	526	28.435	0.006	-170.569
4	525	28.591	-0.008	-171.596
4	524	28.676	-0.060	-172.419
4	523	28.699	-0.065	-172.584
4	520	28.816	-0.014	-172.983
4	519	29.163	-0.101	-175.588
4	517	29.258	-0.071	-175.977
4	516	29.372	-0.081	-176.718
4	515	29.482	-0.081	-177.378
4	514	29.560	-0.154	-178.283
4	513	29.726	-0.142	-179.208
4	512	29.785	-0.189	-179.840
4	511	29.937	-0.114	-180.307
4	510	30.092	-0.075	-181.000
4	507	30.433	-0.197	-183.777
4	506	30.644	-0.255	-185.393
4	505	30.810	-0.338	-186.888
4	503	31.039	-0.224	-187.577
4	504	31.070	-0.204	-187.645
4	502	31.077	-0.216	-187.757
4	501	31.095	-0.224	-187.911
5	220	13.669	0.454	79.293
5	218	13.215	0.466	76.495
5	216	12.925	0.483	74.650
5	215	12.736	0.486	73.505
5	214	11.653	0.493	66.958
5	213	10.990	0.498	62.951
5	212	9.508	0.409	54.596
5	211	9.422	0.407	54.089
5	210	9.317	0.421	53.375
5	209	9.199	0.426	52.639
5	208	9.107	0.417	52.144
5	207	8.483	0.381	48.615
5	206	8.399	0.386	48.080
5	205	8.153	0.376	46.661
5	204	8.050	0.384	45.992
5	203	7.953	0.402	45.307
5	202	7.825	0.397	44.567
5	201	7.726	0.407	43.915
5	199	7.499	0.414	42.511
5	197	7.215	0.434	40.687
5	196	7.102	0.426	40.052
5	195	6.933	0.414	39.114
5	194	6.827	0.417	38.461
5	193	6.709	0.414	37.767
5	192	6.633	0.426	37.238
5	191	6.498	0.426	36.427

SHOT POINT	RECORDER LOCATION	TRAVEL TIME (REAL)	TRAVEL TIME (T-X/6)	DISTANCE
5	190	6.351	0.421	35.579
5	188	6.061	0.446	33.691
5	187	5.918	0.421	32.981
5	186	5.755	0.407	32.091
5	184	5.446	0.375	30.429
5	182	5.255	0.365	29.344
5	181	5.219	0.338	29.286
5	183	5.198	0.362	29.015
5	180	5.086	0.375	28.269
5	179	4.864	0.352	27.070
5	178	4.809	0.357	26.707
5	177	4.664	0.357	25.842
5	176	4.542	0.365	25.062
5	175	4.357	0.343	24.085
5	174	4.239	0.345	23.361
5	173	4.046	0.325	22.326
5	172	3.922	0.320	21.611
5	171	3.802	0.318	20.904
5	170	3.656	0.306	20.104
5	169	3.548	0.306	19.455
5	168	3.325	0.288	18.219
5	167	3.186	0.274	17.475
5	166	3.066	0.261	16.826
5	165	2.882	0.261	15.723
5	164	2.859	0.256	15.618
5	163	2.673	0.242	14.589
5	162	2.431	0.222	13.253
5	161	2.377	0.217	12.958
5	160	2.174	0.205	11.814
5	159	2.044	0.197	11.083
5	158	1.955	0.224	10.385
5	157	1.788	0.178	9.662
5	156	1.679	0.183	8.978
5	155	1.562	0.173	8.337
5	154	1.413	0.165	7.484
5	153	1.279	0.146	6.800
5	152	1.144	0.126	6.110
5	151	1.080	0.101	5.870
5	150	0.897	0.104	4.757
5	149	0.718	0.104	3.688
5	148	0.580	0.078	3.012
5	146	0.271	0.035	1.415
5	145	0.165	0.031	0.802
5	144	0.006	0.005	0.009
5	143	0.107	0.019	-0.529
5	142	0.298	0.023	-1.651
5	141	0.462	0.063	-2.392
5	140	0.596	0.067	-3.173
5	139	0.765	0.094	-4.023
5	137	1.061	0.121	-5.641
5	136	1.216	0.126	-6.540
5	135	1.355	0.146	-7.254
5	134	1.639	0.183	-8.737
5	133	1.698	0.183	-9.091
5	132	1.848	0.222	-9.756
5	131	1.919	0.234	-10.111
5	130	2.116	0.254	-11.173
5	129	2.258	0.254	-12.025
5	128	2.397	0.279	-12.710
5	127	2.577	0.311	-13.599
5	125	2.884	0.325	-15.350
5	124	3.002	0.333	-16.015
5	123	3.151	0.338	-16.879
5	122	3.239	0.352	-17.320
5	121	3.354	0.365	-17.937
5	120	3.528	0.350	-19.069
5	119	3.622	0.357	-19.586
5	222	3.811	0.357	-20.721
5	116	4.071	0.362	-22.250
5	115	4.205	0.365	-23.041
5	114	4.375	0.377	-23.985
5	113	4.480	0.384	-24.575
5	112	4.643	0.407	-25.418
5	111	4.763	0.402	-26.169
5	110	4.872	0.407	-26.790
5	109	4.972	0.384	-27.527
5	108	5.140	0.389	-28.506
5	107	5.353	0.394	-29.751
5	106	5.512	0.409	-30.619
5	105	5.710	0.429	-31.690
5	104	5.827	0.397	-32.578
5	103	5.864	0.409	-32.727
5	221	5.975	0.389	-33.512
5	101	6.140	0.407	-34.400
6	220	9.927	0.295	57.794
6	218	9.455	0.295	54.962
6	216	9.175	0.328	53.081
6	215	8.966	0.311	51.930
6	214	7.888	0.325	45.381
6	213	7.246	0.351	41.368
6	212	5.712	0.210	33.014
6	211	5.624	0.206	32.505
6	210	5.508	0.210	31.789
6	209	5.375	0.200	31.052
6	208	5.299	0.206	30.558
6	207	4.687	0.180	27.042
6	206	4.609	0.190	26.512
6	205	4.374	0.193	25.084
6	204	4.272	0.200	24.435
6	203	4.165	0.210	23.732
6	202	4.056	0.226	22.982
6	201	3.957	0.236	22.326
6	199	3.720	0.233	20.921
6	197	3.451	0.265	19.111
6	196	3.335	0.252	18.493
6	195	3.176	0.249	17.560
6	194	3.057	0.243	16.886

SHOT POINT	RECORDER LOCATION	TRAVEL TIME (REAL)	TRAVEL TIME (T-X/6)	DISTANCE
6	193	2.932	0.236	16.178
6	192	2.851	0.243	15.652
6	191	2.723	0.249	14.844
6	190	2.558	0.226	13.990
6	188	2.270	0.252	12.104
6	187	2.115	0.216	11.391
6	186	1.945	0.193	10.510
6	184	1.641	0.164	8.861
6	181	1.446	0.121	7.949
6	182	1.437	0.141	7.778
6	183	1.368	0.131	7.425
6	180	1.301	0.131	7.022
6	179	1.082	0.114	5.807
6	178	0.978	0.121	5.143
6	177	0.823	0.114	4.253
6	176	0.695	0.114	3.485
6	175	0.504	0.088	2.494
6	174	0.385	0.088	1.782
6	173	0.160	0.036	0.746
6	172	0.024	0.019	0.032
6	171	0.176	0.045	-0.786
6	170	0.309	0.052	-1.543
6	169	0.424	0.062	-2.173
6	168	0.663	0.098	-3.388
6	167	0.799	0.105	-4.165
6	166	0.927	0.121	-4.834
6	165	1.144	0.164	-5.884
6	164	1.159	0.164	-5.974
6	163	1.349	0.174	-7.055
6	162	1.594	0.190	-8.422
6	161	1.633	0.193	-8.637
6	160	1.839	0.210	-9.779
6	159	1.970	0.216	-10.524
6	158	2.151	0.275	-11.252
6	157	2.220	0.226	-11.962
6	156	2.358	0.243	-12.694
6	155	2.487	0.252	-13.408
6	154	2.652	0.275	-14.259
6	153	2.788	0.285	-15.014
6	152	2.938	0.285	-15.915
6	151	3.056	0.285	-16.628
6	150	3.227	0.285	-17.653
6	149	3.344	0.285	-18.353
6	148	3.405	0.282	-18.736
6	146	3.664	0.302	-20.176
6	145	3.789	0.325	-20.789
6	144	3.910	0.311	-21.590
6	143	4.011	0.334	-22.062
6	142	4.176	0.334	-23.052
6	141	4.334	0.351	-23.897
6	140	4.488	0.361	-24.763
6	139	4.643	0.377	-25.593
6	138	4.765	0.377	-26.325
6	137	4.910	0.410	-27.000
6	136	5.074	0.413	-27.962
6	135	5.205	0.430	-28.650
6	134	5.464	0.456	-30.047
6	133	5.543	0.456	-30.523
6	132	5.713	0.495	-31.304
6	131	5.788	0.505	-31.695
6	130	5.975	0.515	-32.757
6	129	6.121	0.522	-33.595
6	127	6.421	0.564	-35.138
6	125	6.709	0.568	-36.849
6	124	6.832	0.574	-37.544
6	123	6.990	0.584	-38.438
6	122	7.075	0.594	-38.886
6	121	7.180	0.594	-39.516
6	120	7.351	0.574	-40.660
6	119	7.453	0.591	-41.173
6	222	7.630	0.581	-42.296
6	116	7.888	0.581	-43.841
6	115	8.013	0.574	-44.632
6	114	8.192	0.596	-45.574
6	113	8.270	0.576	-46.163
6	112	8.418	0.584	-47.005
6	111	8.523	0.564	-47.753
6	110	8.631	0.568	-48.379
6	109	8.742	0.555	-49.118
6	108	8.892	0.543	-50.096
6	107	9.112	0.555	-51.342
6	106	9.277	0.576	-52.208
6	105	9.477	0.596	-53.281
6	104	9.563	0.535	-54.168
6	103	9.598	0.547	-54.307
6	221	9.717	0.535	-55.095
7	220	5.692	0.224	32.805
7	218	5.217	0.229	29.926
7	215	4.698	0.222	26.857
7	214	3.602	0.217	20.308
7	213	2.946	0.229	16.300
7	212	1.398	0.074	7.945
7	211	1.317	0.077	7.443
7	210	1.210	0.086	6.740
7	209	1.088	0.086	6.008
7	208	0.975	0.057	5.509
7	207	0.350	0.020	1.979
7	206	0.279	0.030	1.495
7	205	0.025	0.017	0.046
7	420	0.013	0.013	-0.002
7	204	0.222	0.057	-0.989
7	203	0.277	0.052	-1.350
7	202	0.386	0.032	-2.122
7	201	0.516	0.045	-2.831
7	199	0.745	0.042	-4.216
7	197	1.056	0.062	-5.964
7	196	1.168	0.064	-6.620

SHOT POINT	RECORDER LOCATION	TRAVEL TIME (REAL)	TRAVEL TIME (T-X/6)	DISTANCE
7	195	1.337	0.077	-7.560
7	194	1.451	0.086	-8.189
7	193	1.574	0.089	-8.909
7	192	1.664	0.094	-9.423
7	191	1.806	0.101	-10.229
7	190	1.965	0.106	-11.155
7	188	2.320	0.158	-12.972
7	187	2.437	0.150	-13.716
7	186	2.593	0.150	-14.654
7	184	2.864	0.160	-16.222
7	182	3.045	0.160	-17.307
7	181	3.074	0.160	-17.479
7	183	3.107	0.165	-17.651
7	180	3.272	0.185	-18.522
7	179	3.452	0.173	-19.676
7	178	3.497	0.173	-19.944
7	177	3.653	0.183	-20.820
7	176	3.797	0.192	-21.628
7	175	3.954	0.190	-22.584
7	174	4.068	0.185	-23.295
7	173	4.255	0.197	-24.346
7	172	4.390	0.214	-25.051
7	171	4.516	0.224	-25.747
7	170	4.642	0.217	-26.547
7	169	4.755	0.222	-27.197
7	168	4.980	0.242	-28.433
7	167	5.099	0.237	-29.177
7	166	5.220	0.249	-29.829
7	165	5.423	0.269	-30.928
7	164	5.440	0.266	-31.044
7	163	5.652	0.298	-32.120
7	162	5.879	0.298	-33.481
7	161	5.911	0.293	-33.708
7	160	6.100	0.293	-34.837
7	159	6.231	0.298	-35.596
7	158	6.416	0.362	-36.323
7	157	6.485	0.313	-37.034
7	156	6.614	0.320	-37.764
7	155	6.745	0.333	-38.470
7	154	6.904	0.350	-39.325
7	153	7.032	0.352	-40.075
7	152	7.189	0.362	-40.960
7	151	7.301	0.362	-41.630
7	150	7.459	0.345	-42.683
7	149	7.593	0.357	-43.416
7	148	7.654	0.352	-43.808
7	146	7.941	0.402	-45.237
7	145	8.056	0.414	-45.849
7	144	8.192	0.417	-46.650
7	143	8.281	0.426	-47.127
7	142	8.447	0.426	-48.124
7	141	8.607	0.446	-48.967
7.	140	8.745	0.441	-49.820
7	139	8.877	0.434	-50.660
7	137	9.161	0.483	-52.070
7	135	9.431	0.478	-53.720
7	134	9.688	0.503	-55.109
7	132	9.933	0.537	-56.375
7	131	9.997	0.537	-56.760
7	130	10.187	0.550	-57.823
7	129	10.315	0.537	-58.665
7	128	10.439	0.550	-59.339
7	127	10.641	0.606	-60.211
7	125	10.899	0.579	-61.921
7	124	11.025	0.589	-62.617
7	123	11.186	0.601	-63.510
7	122	11.258	0.599	-63.957
7	121	11.395	0.631	-64.584
7	119	11.635	0.599	-66.218
7	222	11.815	0.594	-67.325
7	116	12.052	0.569	-68.897
7	115	12.181	0.567	-69.687
7	114	12.344	0.574	-70.620
7	113	12.423	0.552	-71.226
7	112	12.568	0.557	-72.070
7	111	12.698	0.562	-72.820
7	110	12.802	0.562	-73.441
7	109	12.892	0.530	-74.172
7	108	13.068	0.542	-75.156
7	107	13.252	0.520	-76.395
7	106	13.407	0.529	-77.269
7	105	13.578	0.522	-78.336
7	104	13.715	0.510	-79.228
7	103	13.762	0.532	-79.376
7	221	13.872	0.532	-80.036
7	101	13.974	0.489	-80.911
7	302	14.072	0.484	-81.523
7	303	14.274	0.515	-82.551
7	304	14.490	0.540	-83.702
7	306	14.721	0.458	-85.574
7	307	14.916	0.458	-86.748
7	308	15.219	0.531	-88.126
7	309	15.395	0.524	-89.224
7	310	15.471	0.496	-89.852
7	311	15.650	0.484	-90.995
7	312	15.813	0.458	-92.127
7	313	16.001	0.508	-92.960
7	314	16.218	0.463	-94.530
7	315	16.368	0.473	-95.371
7	316	16.536	0.454	-96.492
7	317	16.715	0.442	-97.635
7	318	16.938	0.454	-98.906
7	319	17.041	0.468	-99.439
7	320	17.229	0.478	-100.505
7	417	17.266	0.478	-100.728
7	322	17.527	0.478	-102.294
7	323	17.698	0.447	-103.501
7	324	17.858	0.463	-104.369

SHOT POINT	RECORDER LOCATION	TRAVEL TIME (REAL)	TRAVEL TIME (T-X/6)	DISTANCE
7	325	18.060	0.477	-105.499
7	326	18.235	0.494	-106.445
7	327	18.343	0.489	-107.124
7	328	18.458	0.477	-107.882
7	329	18.597	0.435	-108.971
7	331	18.880	0.393	-110.926
7	332	19.046	0.367	-112.075
7	333	19.229	0.348	-113.287
7	334	19.327	0.343	-113.904
7	335	19.452	0.336	-114.692
7	336	19.637	0.371	-115.591
7	337	19.873	0.360	-117.077
7	338	19.970	0.355	-117.690
7	339	20.123	0.299	-118.947
7	341	20.429	0.351	-120.468
7	342	20.547	0.349	-121.190
7	343	20.723	0.342	-122.284
7	344	20.937	0.325	-123.672
7	345	21.051	0.300	-124.505
7	346	21.210	0.307	-125.422
7	416	21.239	0.300	-125.634
7	347	21.344	0.288	-126.337
7	348	21.497	0.295	-127.211
7	349	21.674	0.269	-128.428
7	350	21.820	0.257	-129.376
7	351	21.928	0.245	-130.095
7	352	22.219	0.365	-131.124
7	353	22.149	0.155	-131.965
7	354	22.429	0.273	-132.938
7	355	22.477	0.176	-133.808
7	356	22.692	0.242	-134.698
7	359	23.399	0.452	-137.677
7	360	23.567	0.441	-138.757
7	361	23.828	0.516	-139.873
7	362	23.867	0.406	-140.765
7	363	24.081	0.452	-141.769
7	365	24.229	0.276	-143.717
7	366	24.380	0.241	-144.833
7	367	24.601	0.290	-145.863
7	368	24.717	0.299	-146.509
7	369	24.862	0.252	-147.660
7	371	25.164	0.257	-149.442
7	372	25.323	0.269	-150.323
7	373	25.387	0.170	-151.302
7	374	25.490	0.150	-152.041
7	377	25.892	0.058	-155.007
7	378	26.002	0.058	-155.665
7	379	26.116	0.100	-156.100
7	382	26.285	0.020	-157.592
7	383	26.535	0.104	-158.582
7	384	26.671	0.099	-159.432
7	386	26.779	-0.081	-161.160
7	387	26.958	-0.156	-162.679
7	388	27.034	-0.218	-163.511
7	389	27.165	-0.219	-164.304
7	390	27.110	-0.379	-164.933
7	391	27.262	-0.399	-165.966
7	392	27.562	-0.265	-166.964
7	393	27.534	-0.430	-167.784
7	394	27.709	-0.473	-169.094
7	395	27.807	-0.489	-169.775
7	396	27.925	-0.512	-170.623
7	397	28.129	-0.524	-171.919
7	398	28.279	-0.520	-172.794
7	399	28.509	-0.450	-173.752
7	401	28.845	-0.419	-175.584
7	402	28.909	-0.501	-176.464
7	403	28.953	-0.629	-177.497
7	405	29.449	-0.455	-179.427
7	406	29.513	-0.534	-180.283
7	407	29.634	-0.572	-181.232
7	408	29.724	-0.595	-181.917
7	421	29.969	-0.491	-182.762
7	422	30.074	-0.455	-183.175
7	423	30.078	-0.532	-183.661
7	415	30.034	-0.651	-184.115
7	424	30.361	-0.581	-185.652
7	413	30.440	-0.675	-186.690
7	412	30.583	-0.675	-187.547
7	614	30.802	-0.747	-189.296
7	615	30.794	-0.763	-189.343
7	612	31.027	-0.789	-190.893
7	611	31.075	-0.845	-191.516
7	610	31.108	-0.900	-192.047
7	609	31.226	-0.909	-192.808
7	608	31.414	-0.829	-193.456
7	607	31.487	-0.909	-194.375
7	606	31.568	-0.923	-194.946
7	605	31.646	-0.975	-195.725
7	604	31.524	-1.199	-196.334
7	602	31.675	-1.238	-197.479
7	601	31.738	-1.281	-198.113
7	600	31.916	-1.252	-199.010
7	597	32.084	-1.403	-200.920
7	596	32.114	-1.535	-201.889
7	595	32.165	-1.558	-202.337
7	594	32.263	-1.582	-203.067
7	592	32.486	-1.605	-204.546
7	590	32.764	-1.641	-206.429
7	589	32.852	-1.678	-207.182
7	588	32.802	-1.838	-207.843
7	587	32.902	-1.848	-208.501
7	584	33.389	-1.740	-210.772
7	583	33.448	-1.754	-211.212
7	582	33.554	-1.787	-212.044
7	581	33.703	-1.824	-213.164
7	580	33.790	-1.848	-213.829
7	579	33.914	-1.838	-214.514

APPENDIX D

Archive Tape Data Format

Archive data tapes are written in SEGY 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 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 SAMPLES 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 HEADER BYTES :
C 9       1 -   4     TRACE SEQUENCE NUMBER WITHIN REEL.
C10       5 -   8     TRACE SEQUENCE NUMBER WITHIN REEL.
C11       9 -  12     STATION LOCATION NUMBER.
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 ELEVATION (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 COORDINATE - X.
C20      77 -  80     SHOTPOINT COORDINATE - Y.
C21      81 -  84     RECEIVER COORDINATE - X.
C22      85 -  88     RECEIVER COORDINATE - 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 DAY (24 HOUR CLOCK).
C30     163 - 164     SHOT TIME - MINUTE OF 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     SHOTPOINT - STATION AZIMUTH (SEC OF ARC).
C40     201 - 204     TIME OF FIRST POINT MINUS SHOT TIME (MSEC)
```

SHOT POINT	RECORDER LOCATION	TRAVEL TIME (REAL)	TRAVEL TIME (T-X/6)	DISTANCE
7	578	33.972	-1.881	-215.119
7	577	34.079	-1.909	-215.930
7	576	34.131	-1.917	-216.287
7	575	34.181	-2.055	-217.413
7	574	34.278	-2.130	-218.451
7	573	34.345	-2.158	-219.016
7	572	34.458	-2.168	-219.755
7	571	34.494	-2.238	-220.391
7	570	34.588	-2.290	-221.267
7	569	34.640	-2.361	-222.002
7	568	34.679	-2.422	-222.603
7	567	34.746	-2.476	-223.332
7	566	34.884	-2.460	-224.065
7	565	34.909	-2.568	-224.861
7	564	35.032	-2.547	-225.472
7	563	35.175	-2.570	-226.472
7	562	35.252	-2.619	-227.228
7	561	35.312	-2.665	-227.865
7	557	35.626	-2.737	-230.180
7	556	35.659	-2.801	-230.757
7	540	35.884	-2.717	-231.606
7	539	35.861	-2.886	-232.480
7	554	36.089	-2.917	-234.035
7	553	36.113	-2.932	-234.270
7	551	36.099	-3.045	-234.868
7	550	36.230	-3.055	-235.707
7	549	36.346	-3.045	-236.349
7	548	36.391	-3.097	-236.926
7	547	36.451	-3.142	-237.559
7	546	36.562	-3.177	-238.432
7	544	36.721	-3.255	-239.859
7	543	36.782	-3.270	-240.312
7	542	36.765	-3.361	-240.755
7	541	36.815	-3.379	-241.169
7	536	37.025	-3.532	-243.345
7	534	37.127	-3.573	-244.198
7	533	37.256	-3.547	-244.820
7	532	37.303	-3.594	-245.382
7	531	37.451	-3.603	-246.324
7	530	37.524	-3.665	-247.137
7	529	37.602	-3.716	-247.910
7	528	37.625	-3.799	-248.540
7	527	37.805	-3.773	-249.466
7	526	37.772	-4.009	-250.685
7	525	38.030	-3.922	-251.712
7	524	38.237	-3.848	-252.509
7	522	38.326	-3.794	-252.720
7	521	38.356	-3.829	-253.112
7	519	38.617	-3.973	-255.539
7	517	38.638	-3.999	-255.820
7	516	38.716	-4.036	-256.511
7	515	38.900	-3.953	-257.116
7	514	38.989	-4.014	-258.017
7	512	39.207	-4.060	-259.603
7	511	39.357	-3.994	-260.102
7	510	39.473	-3.994	-260.801
7	507	39.777	-4.158	-263.606
7	506	39.537	-4.670	-265.247
7	505	40.134	-4.327	-266.765
7	502	39.933	-4.650	-267.498

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 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

$$10^{(att/20)}$$

The measurement system (bytes 3255-3256 of the binary reel header) is set to 1, meters.

Shotpoint 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.

REFERENCE

Barry, K.M., D.A. Cavers, and C.W. Kneale (1975). Recommended Standards for Digital Tape Formats, Geophysics 40, 344-352.

GPO 686-853/58260