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GEOLOGICAL SURVEY

Data Report for the 1978-1985 Seismic-Refraction
Surveys in Northeastern California

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OPEN-FILE REPORT 87-625

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

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¹ USGS, Menlo Park, California

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INTRODUCTION

Over an eight year period from 1978-1985, the U.S. Geological Survey conducted seismic refraction surveys in northeastern California to study the crustal structure and to assess the geothermal potential of the region (Figures 1, 2, and 3). Figure 1 shows all shotpoints labeled with the shotpoint location number. Figure 2 shows all shotpoint and recorder locations. Figure 3 shows shotpoints and station locations for each deployment of instruments. The data are grouped together according to instrument deployments, and analysis of data from different deployments has been done separately by different researchers. Interpretation of deployments 2-8 (Figures 3b-3h) is presented by Zucca and others (1986) and Fuis and others (1987). Interpretation of deployments 11, 13, and 15 (Figures 3k, 3m, and 3o) in the Lassen Peak area are reported in Berge and Stauber (in press), and a report on the 1985 data collected at Medicine Lake volcano (Deployment 16, Figure 3p) is given in Berge and others (1986). The purpose of this report is to present the complete data set in tables, figures, and on digital tapes.

FIELD OPERATIONS AND INSTRUMENTATION

A total of 55 shots were detonated at 29 shotpoints during the surveys (Table 1, Figure 1). At each shotpoint, approximately 900 or more kg of explosives was loaded and detonated in 50 m deep boreholes. In the figures and tables, the first two digits of the shotpoint numbers indicate the year the shotpoint was first used. Each shot that was detonated has a distinct shot number referring to the sequence in which the shots were detonated.

The instruments are portable cassette (analog) tape recorders with 2-Hz seismometers, capable of rapid deployment, programmable turn-on, and rapid playback in the field or laboratory. A total of 60 recorders were used for deployment 1, 100 recorders were used for deployments 2-15 and 120 recorders were used for deployment 16. The recorders were deployed a total of 16 times with an approximate spacing of 0.5-1.75 km, and one or more shots were recorded during each deployment (Figures 2, 3; Tables 2, 3). The recorder locations were numbered independently each year, which resulted in duplicated location numbers from year to year. For deployment 2, all recorders were deployed near the shotpoint in order to test the recording and playback equipment ("huddle test").

DATA PROCESSING

The analog seismic signals recorded on the cassette tapes were digitized beginning at time

$$T = S + T_0 + X/(6.0 \text{ km/s}) + c,$$

where S is the shot time (Table 1), T_0 is the reduced start time in seconds, X is the shot-to-recorder distance in kilometers, and c is the recorder clock drift in seconds.

The appropriate digitizing parameters for each year of recording is given below:

Year	Sampling Interval (msec)	Record length (Samples)	T_0 (s)
----	-----	-----	-----
1978	5	2001	-2
1981	5	4001	-2
1982	5	4001	-2
1985	5	4001	-4

The shot-to-station distances and azimuths (Table 3) were calculated using the Richter approximation for distances up to 80 kilometers. At distances greater than 80 kilometers, distances were calculated using a spherical Earth approximation which yields results differing by about 0.2 kilometers from the Richter approximation results. Approximate ground velocity can be calculated from the digital amplitude, recorder attenuation (trace header, bytes 121-122, see below), and a formula in Berge and others (1986, Appendix B). The digital sample values vary from zero to 4095 counts.

ARCHIVE DATA TAPES

Data for this experiment is stored on three 9-track, 1/2 inch digital tapes, recorded at 1600 bits per inch. Tapes 1 and 2 contain the digitized waveform data written in SEGY format (Barry and others, 1975) (Table 4). The SEGY reel identification card image block (Table 5), contains informational text describing the tape and its contents. Only certain byte fields are used in the reel identification binary-coded block (Table 6). Some of the trace identification headers on the SEGY tapes have a different definition than is specified in the SEGY standard (Table 7). The number of samples per trace specified in the reel identification header binary-coded block is the maximum trace length in that reel. The data trace length varies within each tape reel.

The third tape contains tables 1-7 stored as one file, in unlabelled ASCII format. The physical blocksize is 2640 bytes, and each logical record ("card image") is padded to 132 bytes. A double end-of-file mark is written after the data file to signify the end of tape.

All tapes can be obtained from the following source:

National Geophysical Data Center
NOAA/EGCI
325 Broadway
Boulder, CO 80303
Telephone: (303) 497-6123

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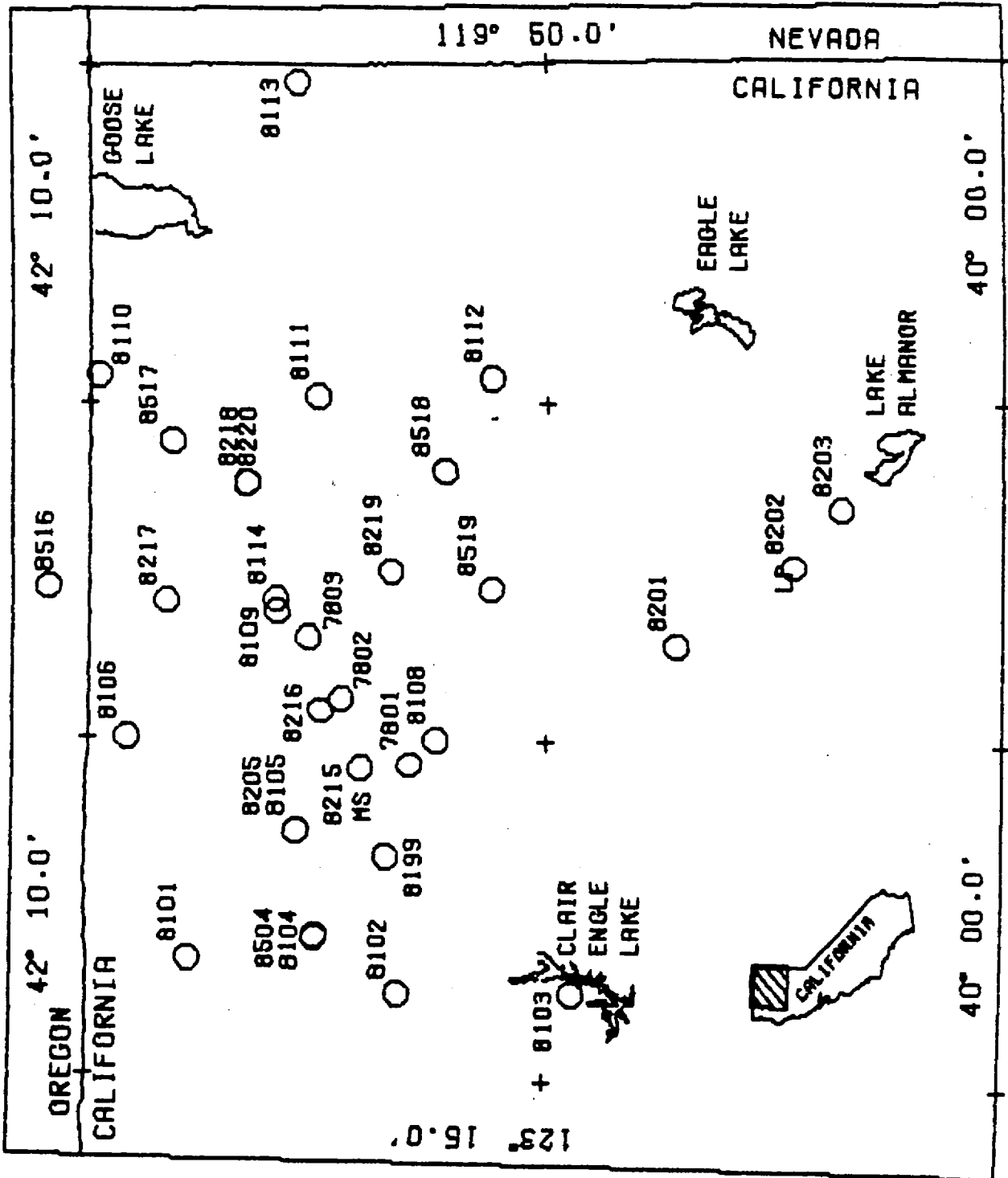


Figure 1. Locations of shotpoints (circles) for all surveys. First two digits of shotpoint label refer to year the shotpoint was first used. Shotpoint pairs 8105-8205, 8218-8220, and 8104-8504 are nearly coincident, differing in location by only a few meters. The location of Mount Shasta is marked MS; Lassen Peak is marked LP. Portions of Goose Lake within Oregon are not shown.

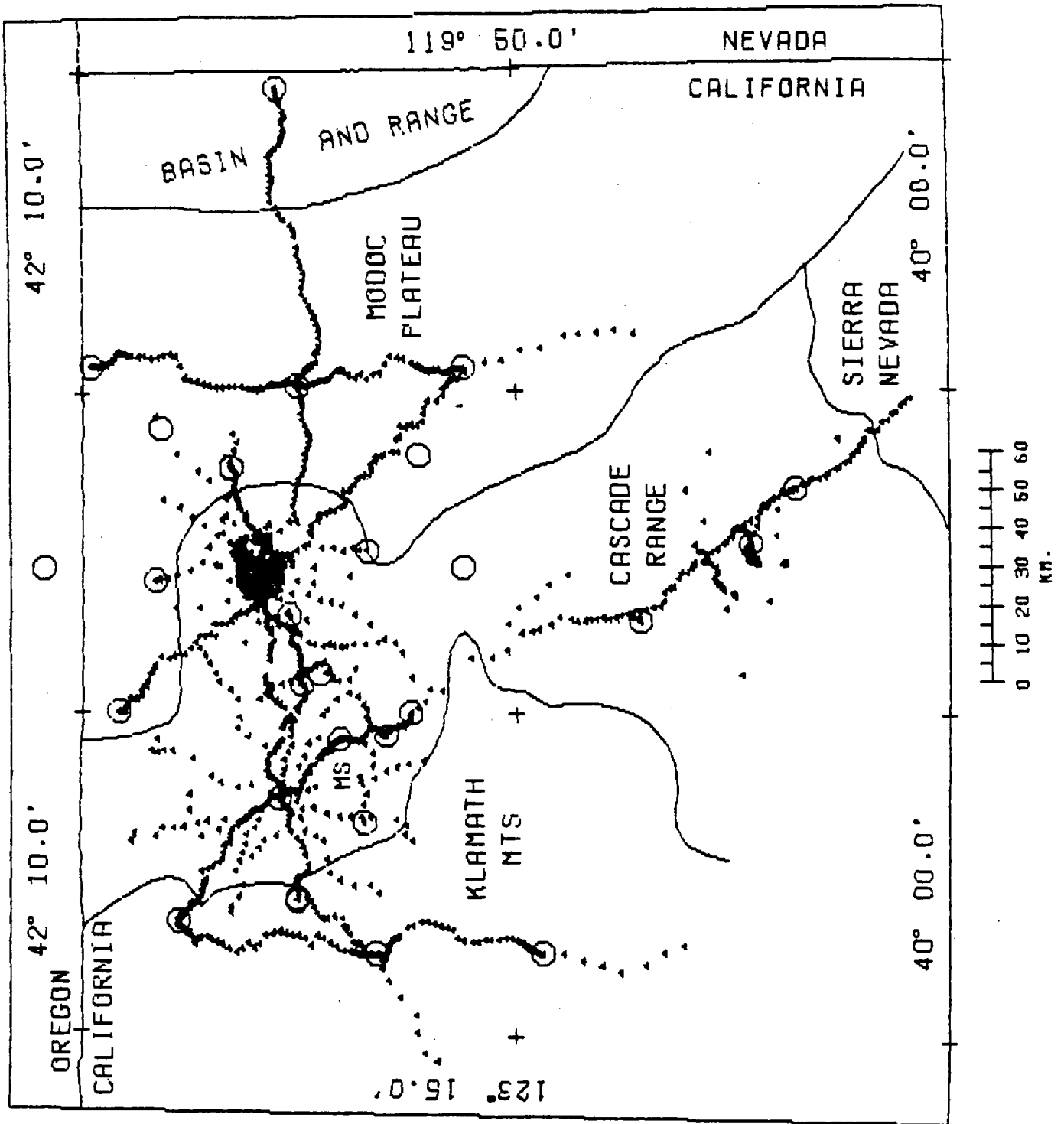


Figure 2. Locations of all deployed seismic recorders (triangles) superimposed on map of figure 1. Five geologic provinces covered by survey are Klamath Mountains, Cascade Range, Modoc Plateau, Basin and Range, and Sierra Nevada provinces.

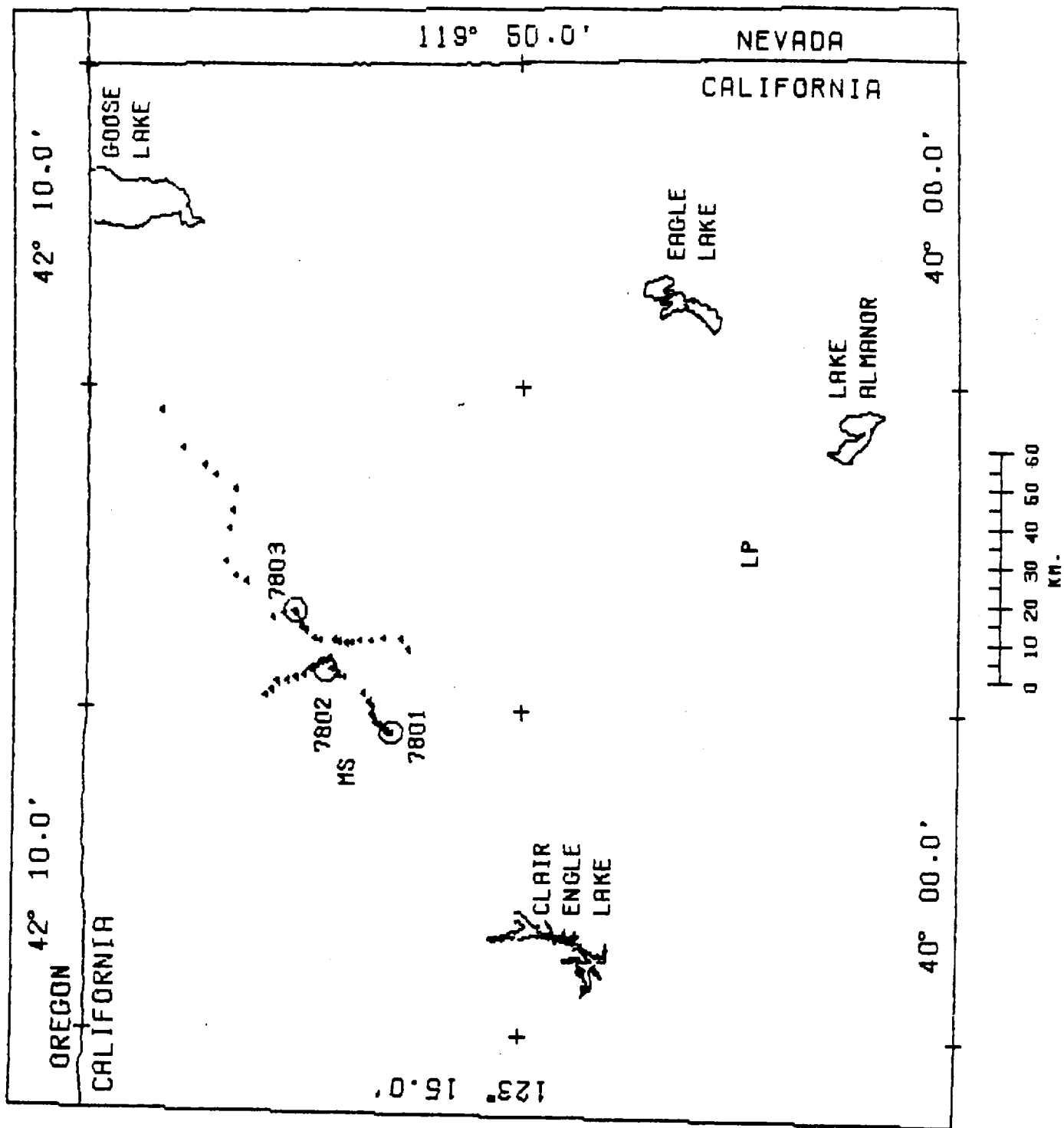


Figure 3a. Locations of shotpoints (circles) and recorders (triangles) for deployment 1, recorded in 1978.

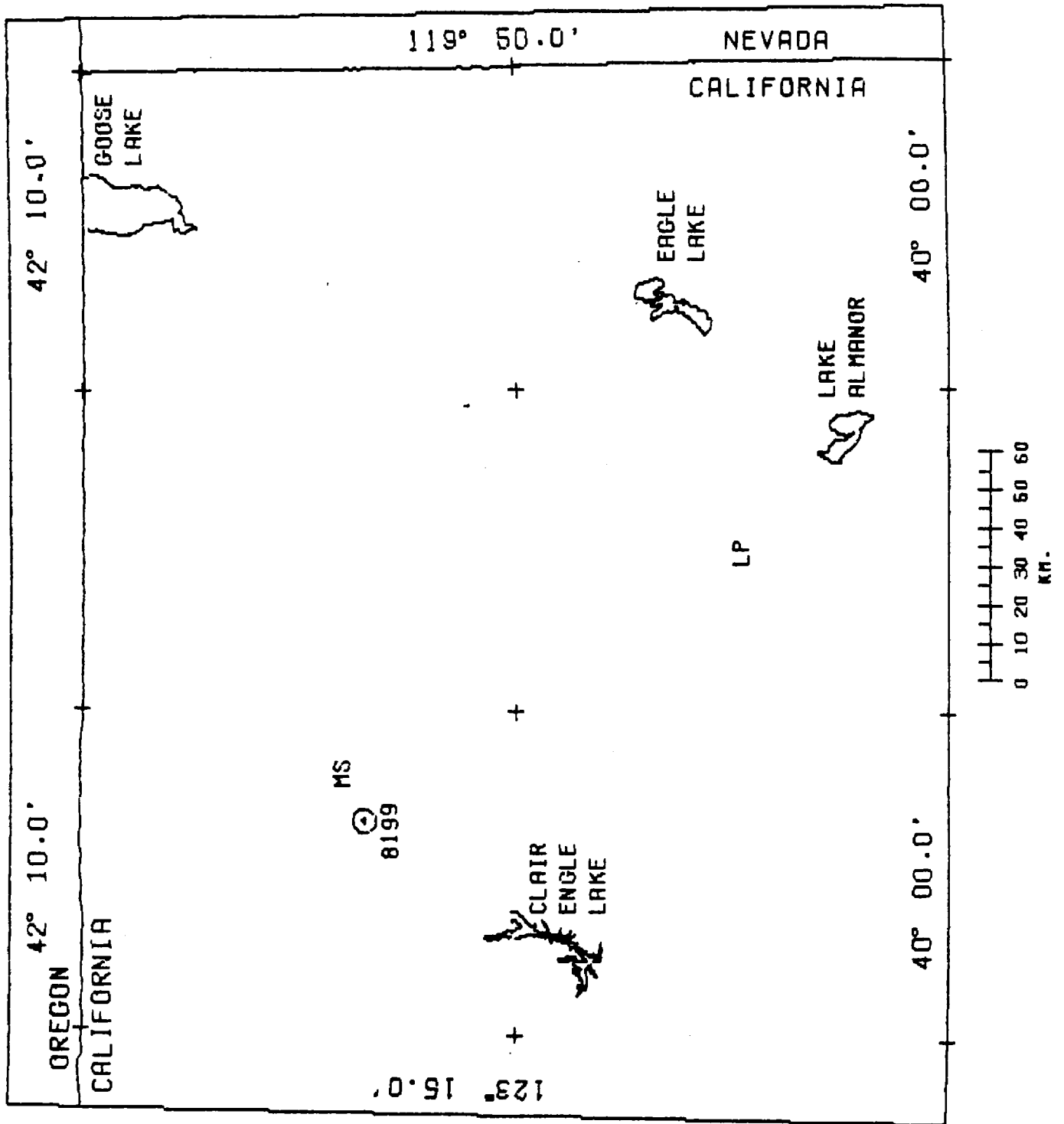


Figure 3b. Locations of shotpoint (circle) and recorders (triangles) for deployment 2 ("huddle test"), recorded in 1981.

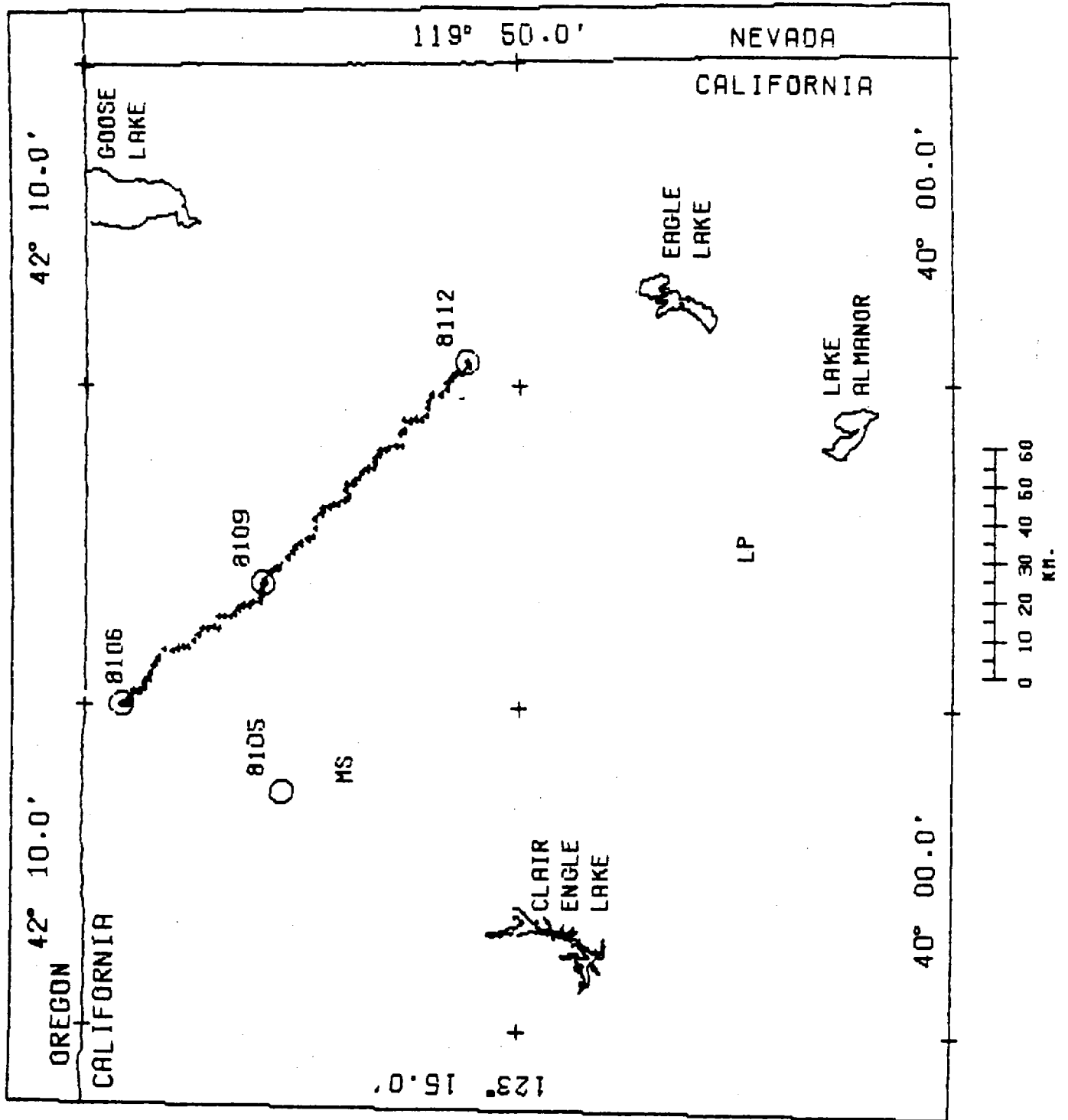


Figure 3c. Locations of shotpoints (circles) and recorders (triangles) for deployment 3, recorded in 1981.

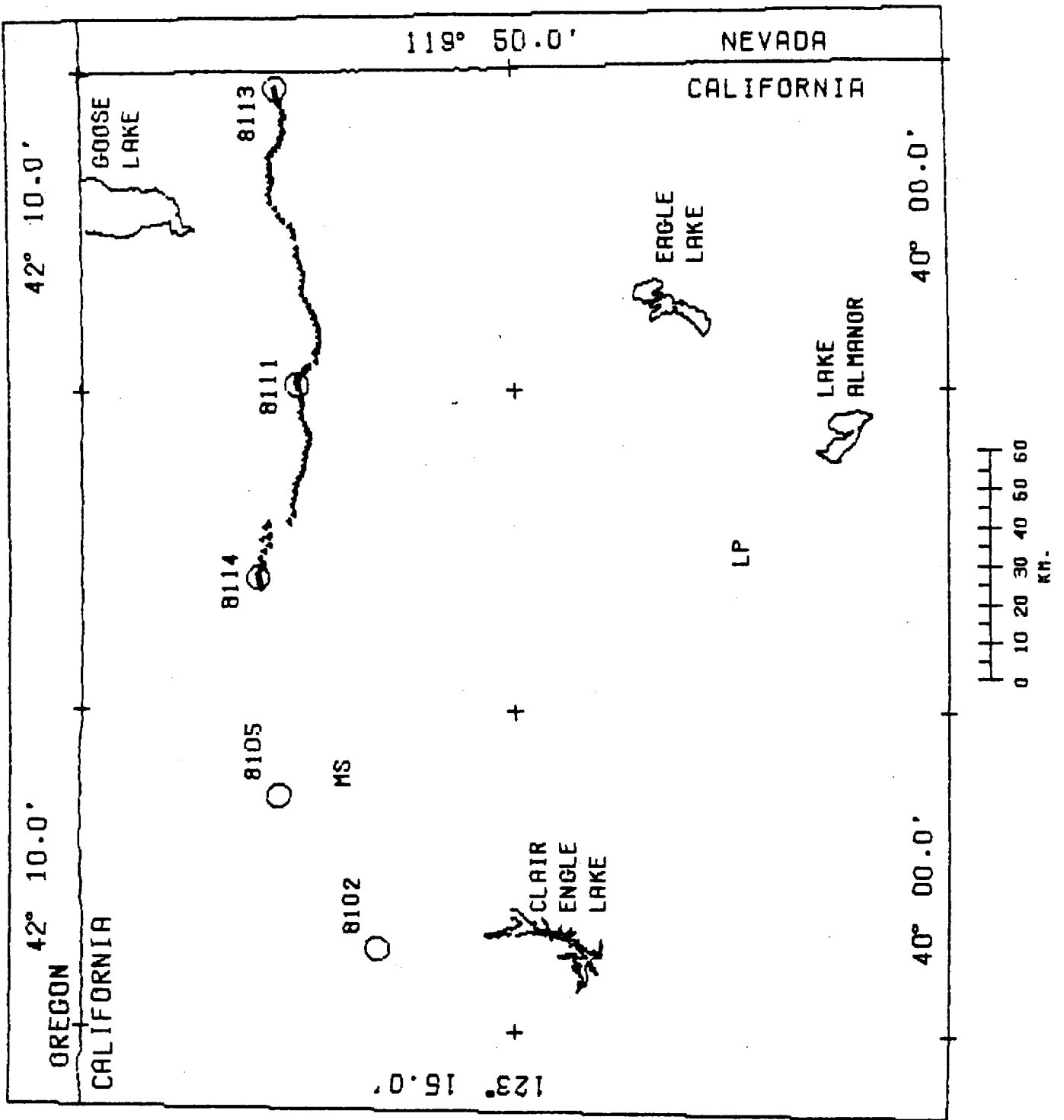


Figure 3d. Locations of shotpoints (circles) and recorders (triangles) for deployment 4, recorded in 1981.

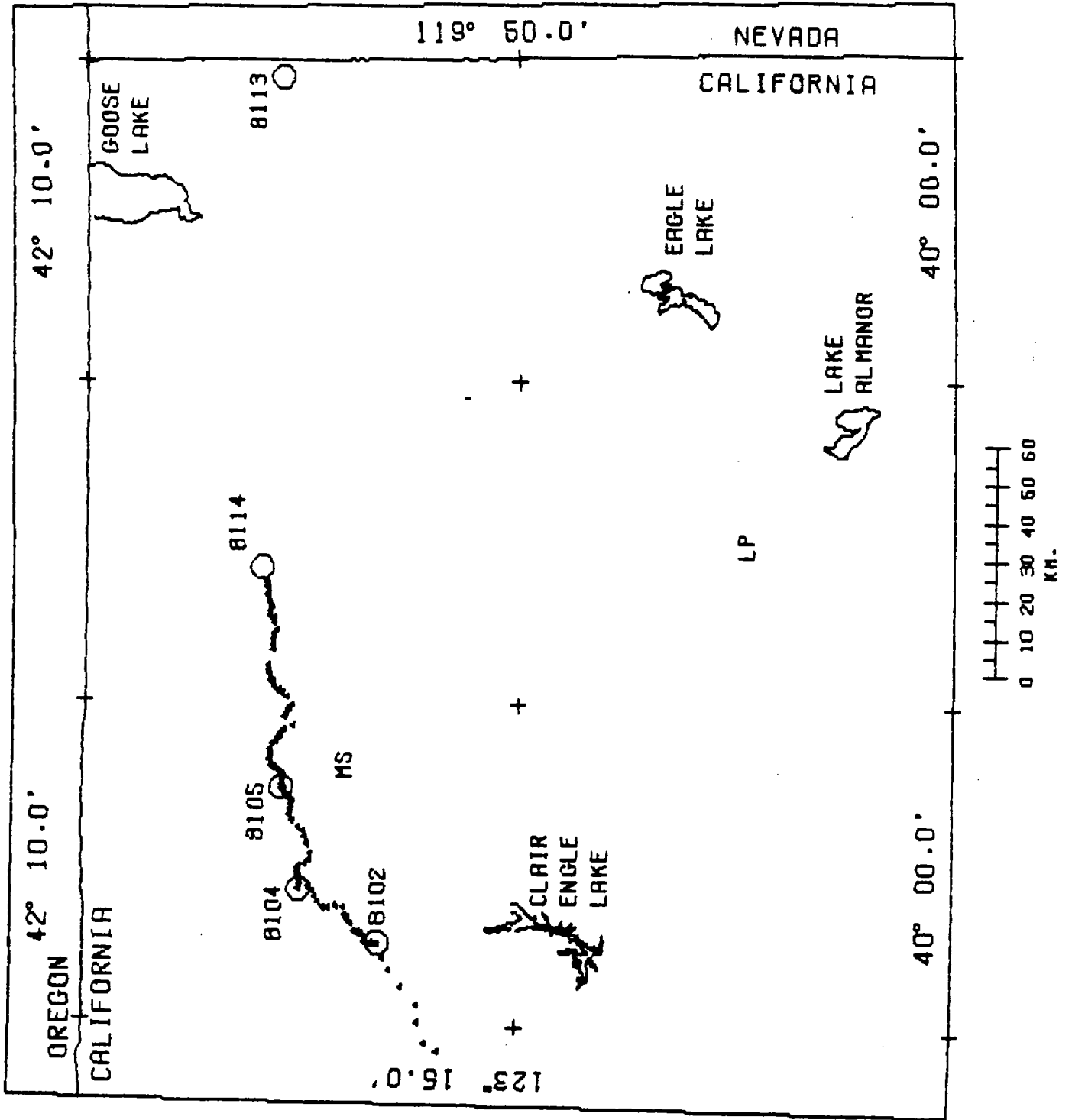


Figure 3a. Locations of shotpoints (circles) and recorders (triangles) for deployment 5, recorded in 1981.

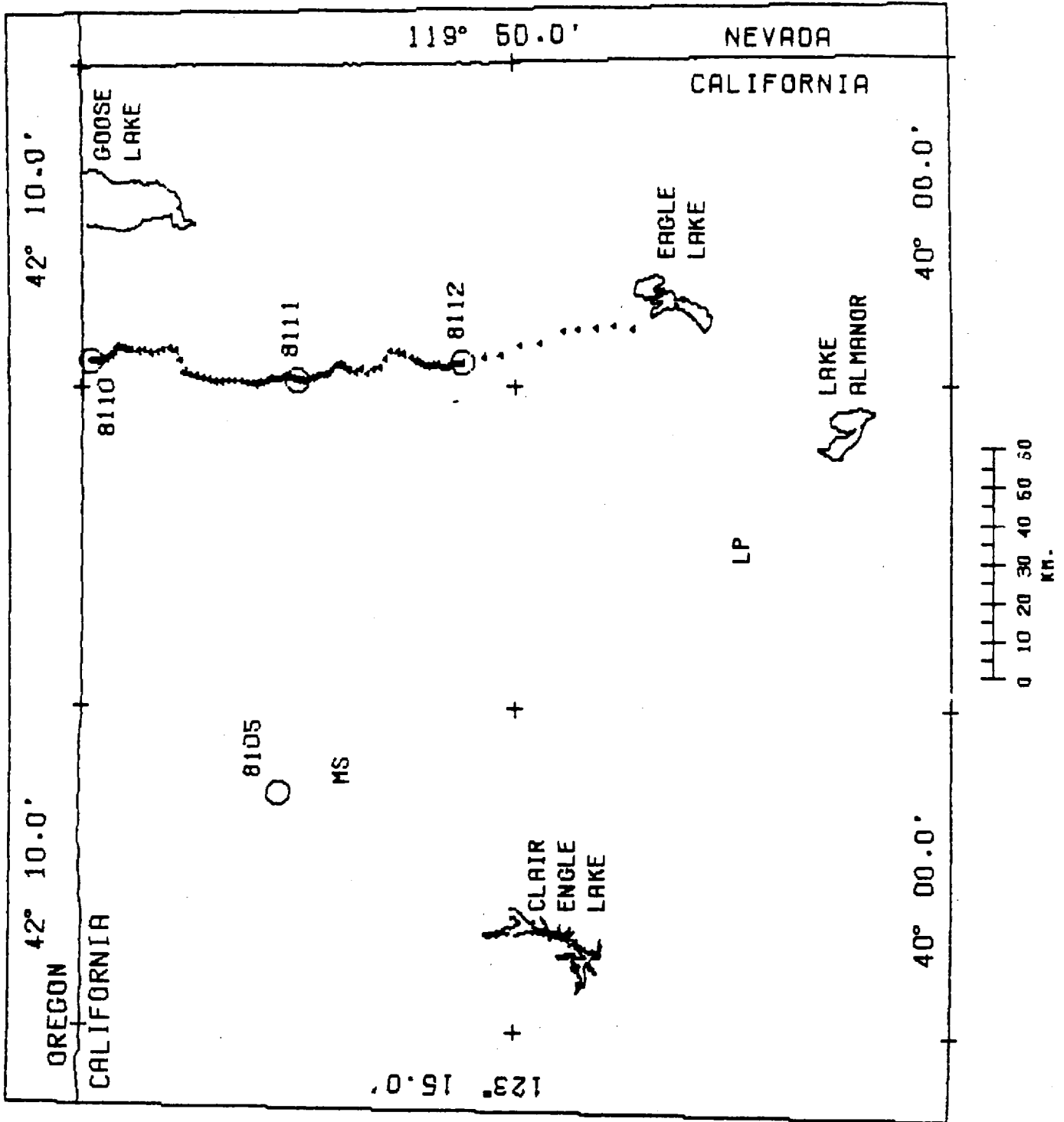


Figure 3f. Locations of shotpoints (circles) and recorders (triangles) for deployment 6, recorded in 1981.

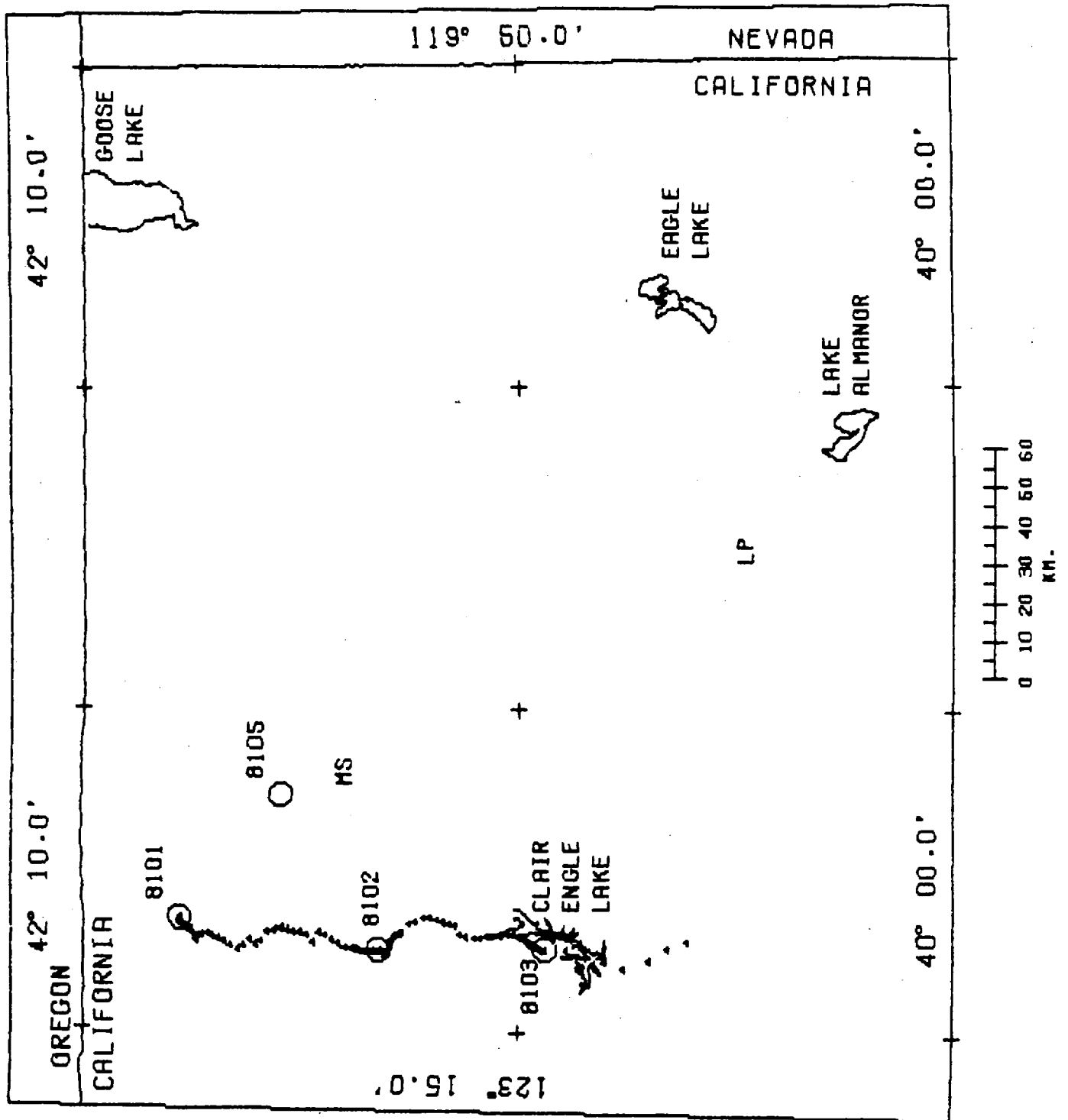


Figure 3g. Locations of shotpoints (circles) and recorders (triangles) for deployment 7, recorded in 1981.

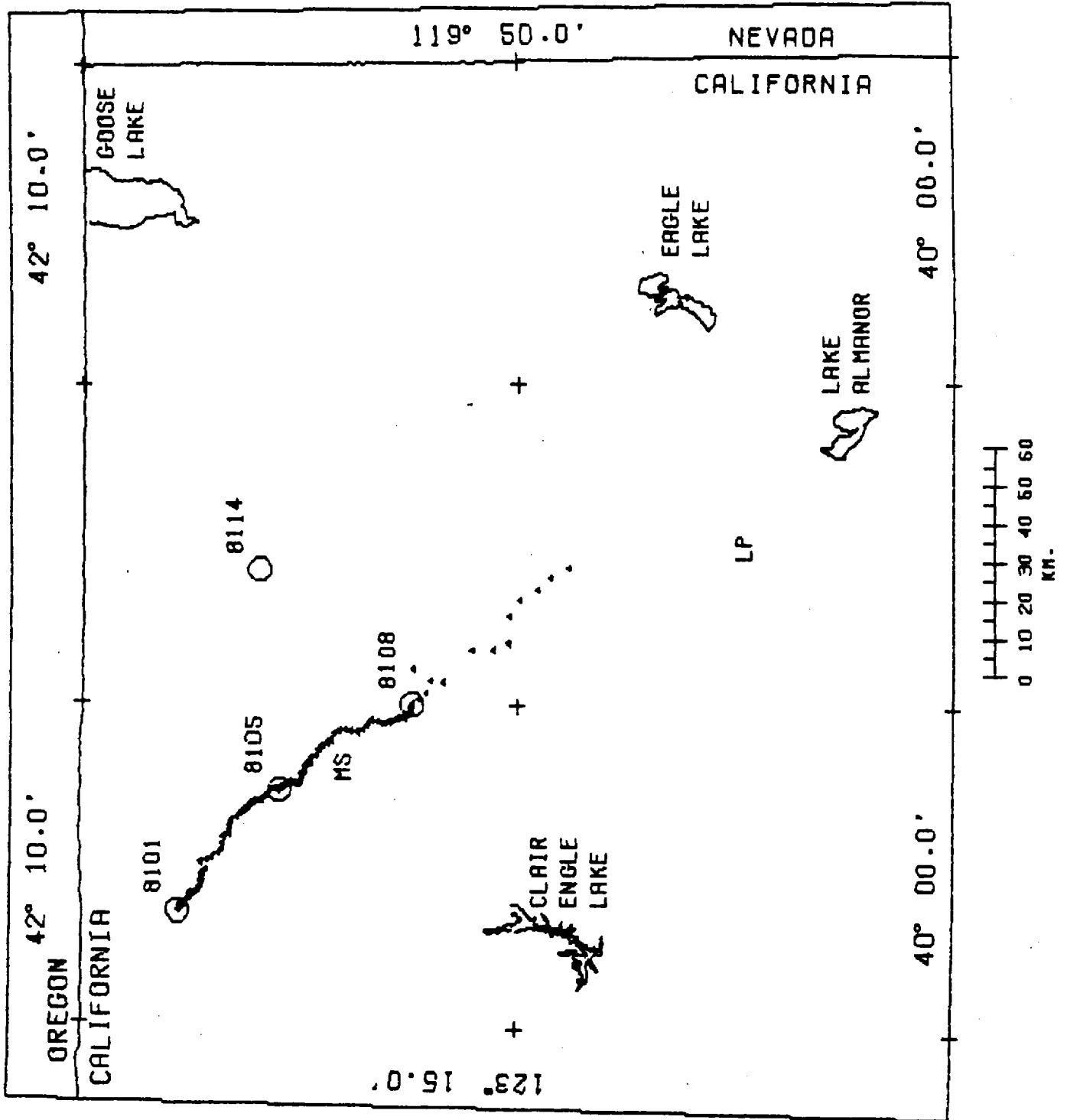


Figure 3h. Locations of shotpoints (circles) and recorders (triangles) for deployment 8, recorded in 1981.

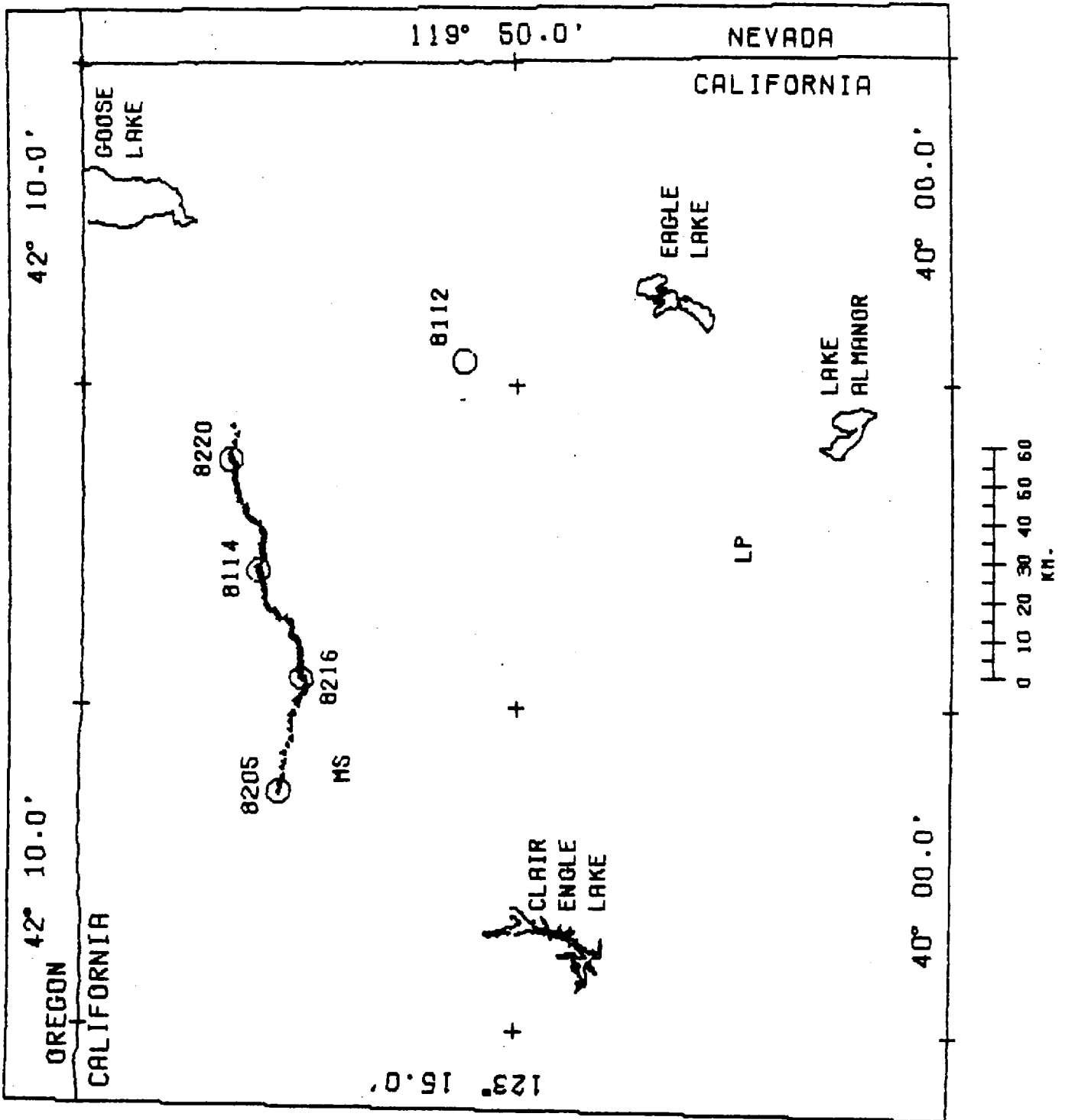


Figure 3i. Locations of shotpoints (circles) and recorders (triangles) for deployment 9, recorded in 1982.

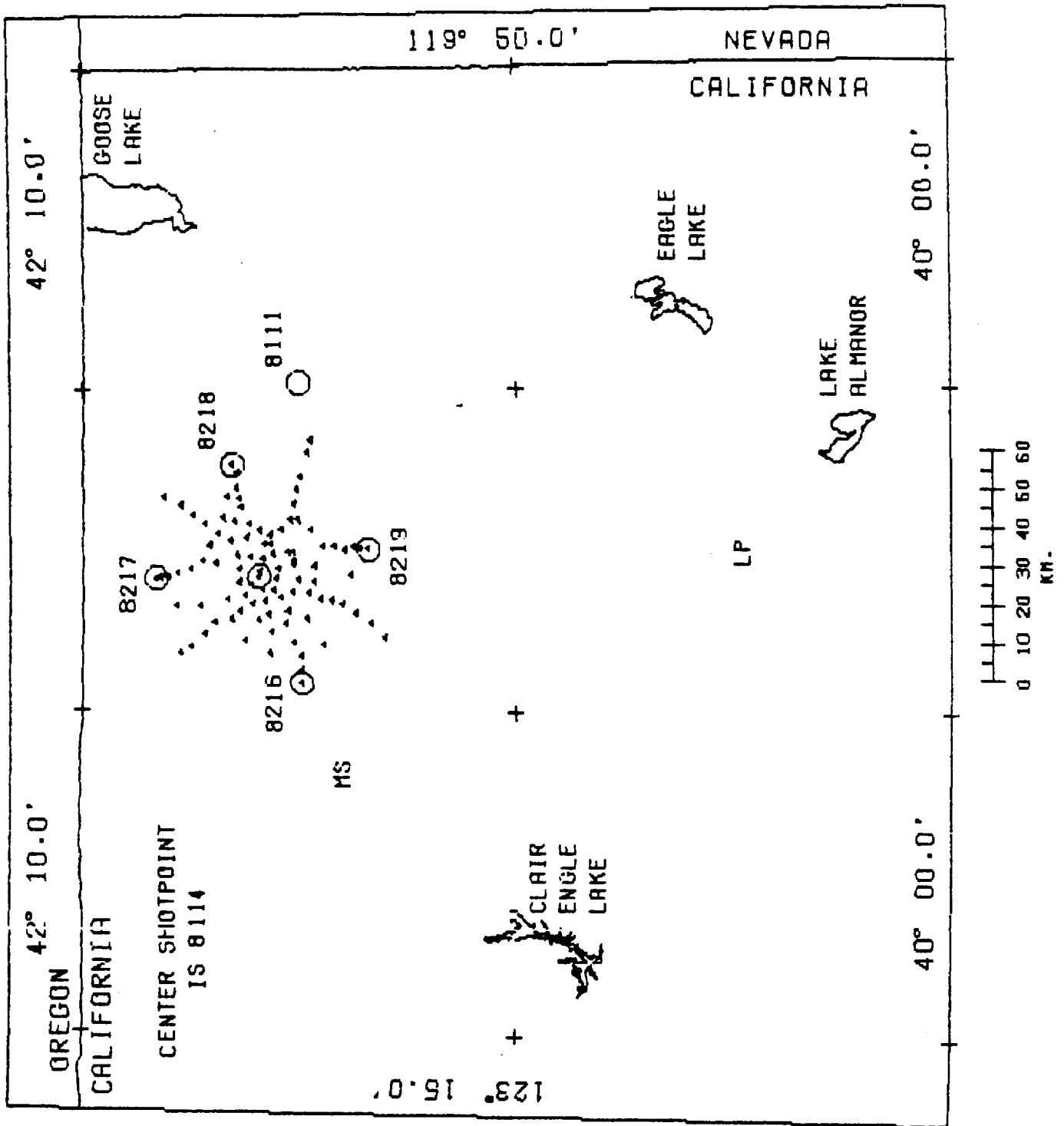


Figure 3j. Locations of shotpoints (circles) and recorders (triangles) for deployment 10, recorded in 1982.

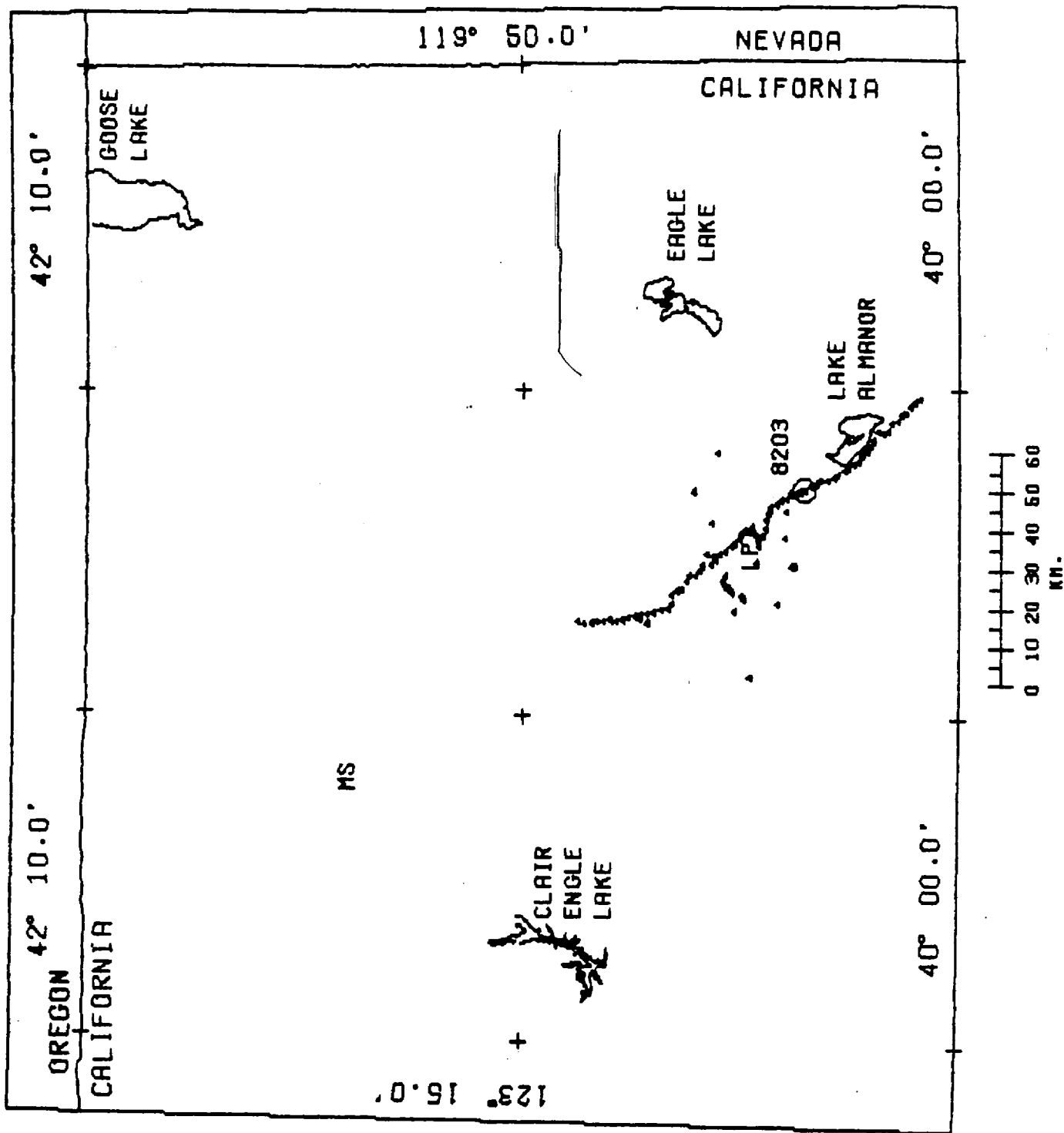


Figure 3k. Locations of shotpoint (circle) and recorders (triangles) for deployment 11, recorded in 1982.

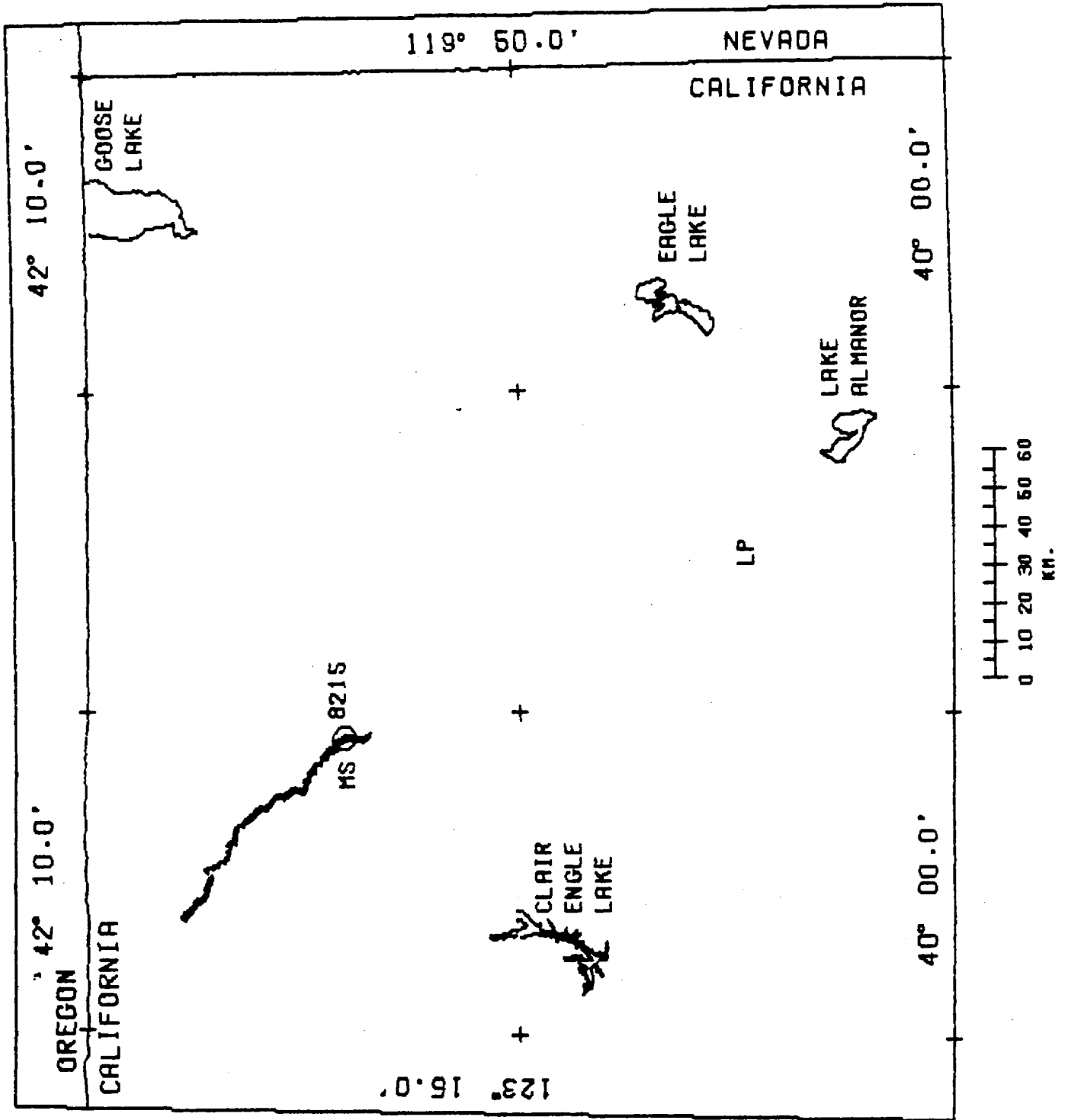


Figure 31. Locations of shotpoint (circle) and recorders (triangles) for deployment 12, recorded in 1982.

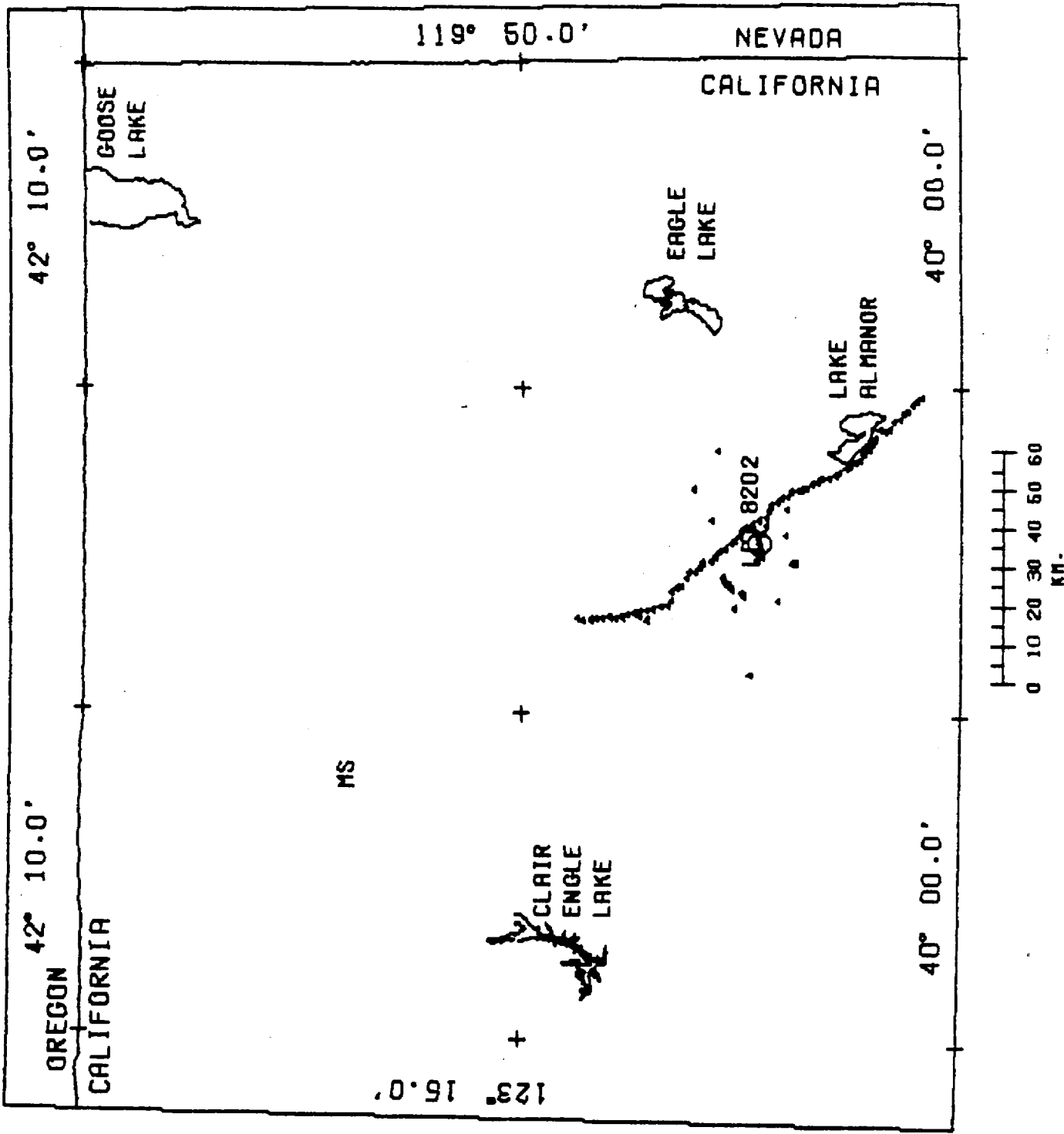


Figure 3m. Locations of shotpoint (circle) and recorders (triangles) for deployment 13, recorded in 1982.

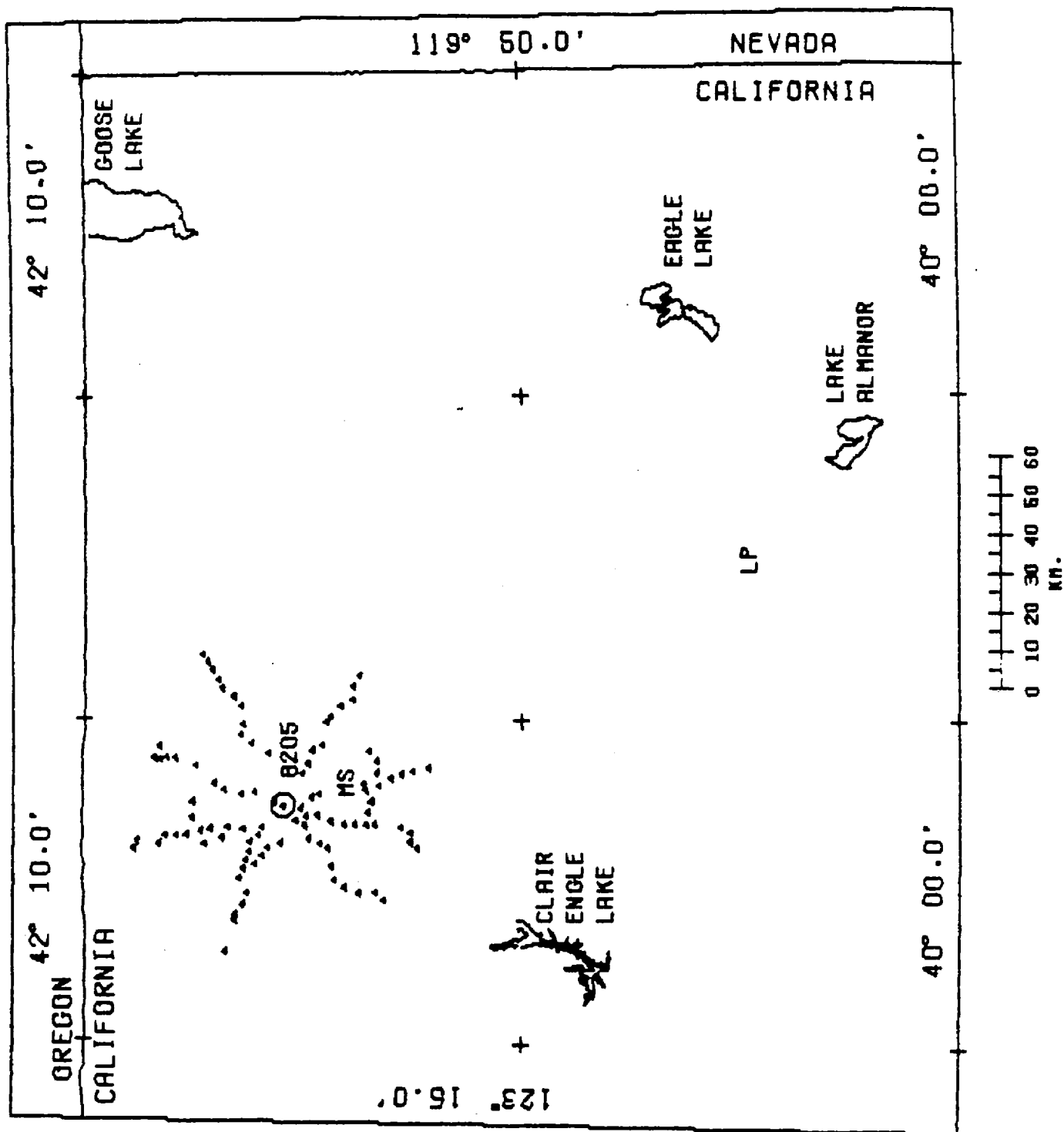


Figure 3n. Locations of shotpoint (circle) and recorders (triangles) for deployment 14, recorded in 1982.

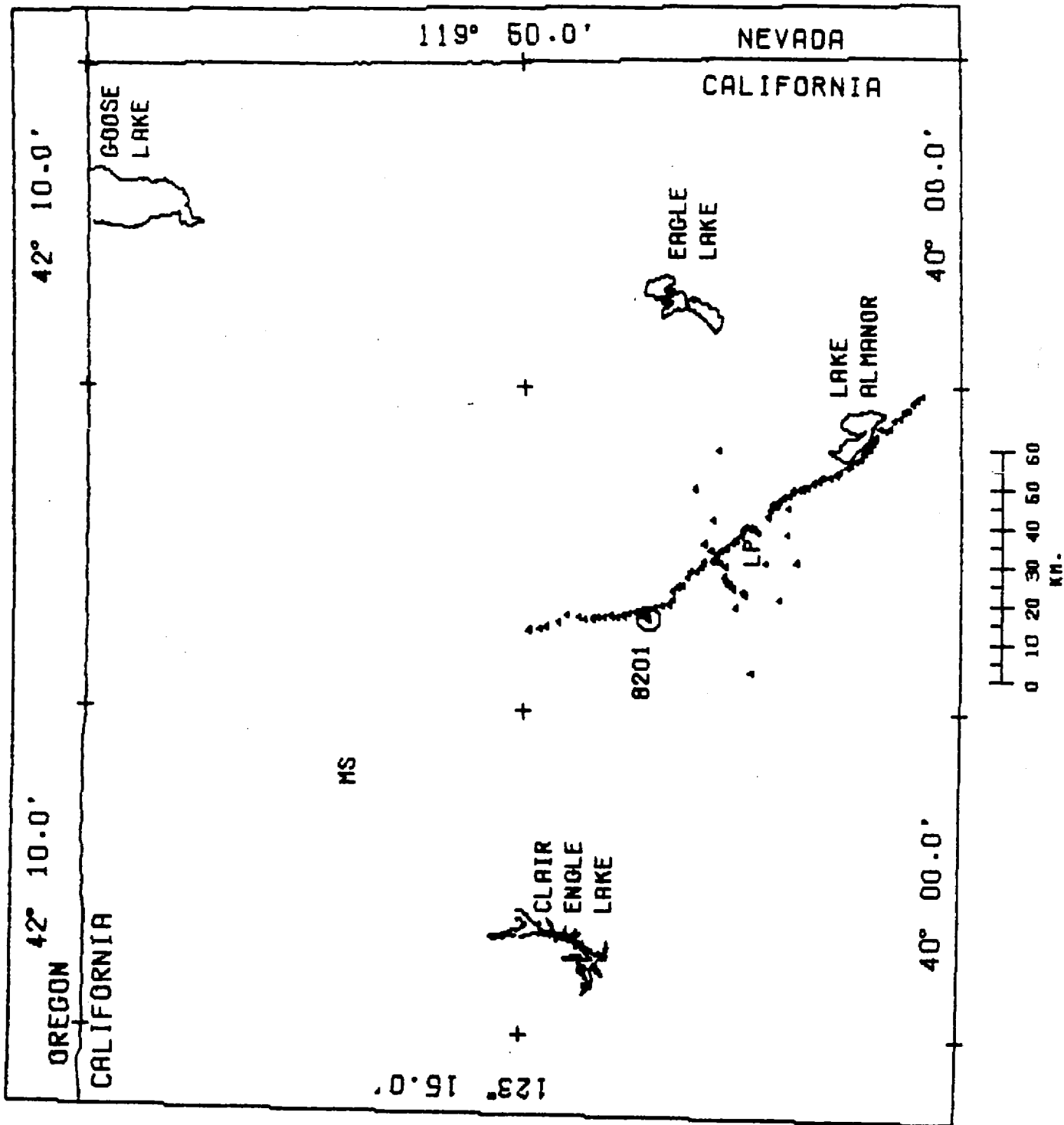


Figure 30. Locations of shotpoint (circle) and recorders (triangles) for deployment 15, recorded in 1982.

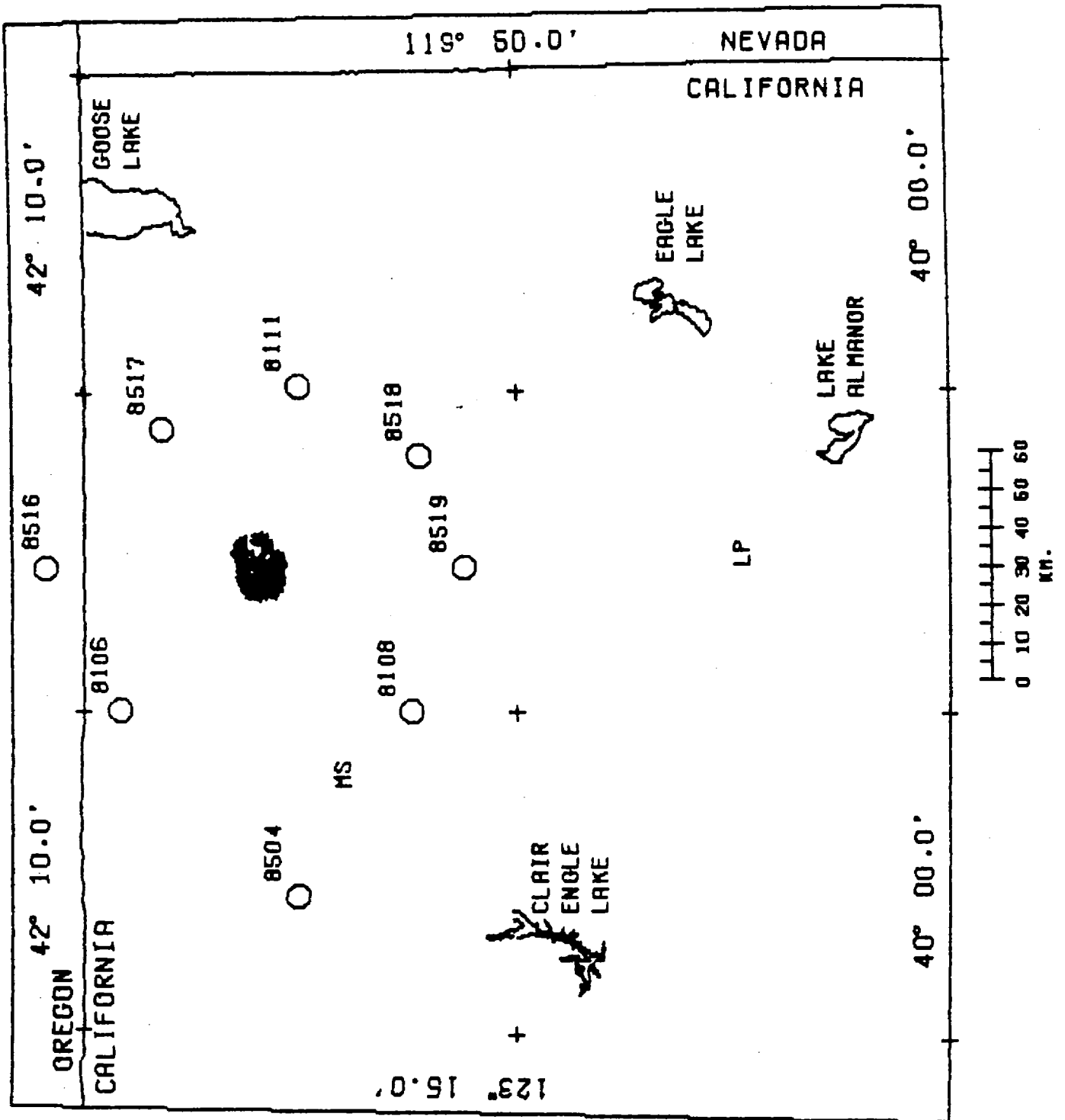


Figure 3p. Locations of shotpoints (circles) and recorders (triangles) for deployment 16, recorded in 1985.

TABLE 1
List of shots detonated during all surveys.

Shot No.	Shot Pt.	Depl. No.	Shot Time (Date Jul.Day: Hr:Min:Sec)	North Latitude (deg,min)	West Longitude (deg,min)	Size (kg)
7801	7801	1	Nov 21, 1978 325:09:59:59.737	41 18.03	122 04.18	
7802	7802	1	Nov 21, 1978 325:11:59:59.718	41 27.10	121 52.75	
7803	7803	1	Nov 21, 1978 325:12:59:59.712	41 31.45	121 41.67	
8101	8199	2	Jun 22, 1981 173:18:30:00.012	41 21.08	122 20.40	"huddle test"
8102	8112	3	Jun 25, 1981 176:07:00:00.025	41 07.36	120 55.49	
8103	8105	3	Jun 25, 1981 176:07:15:00.020	41 32.89	122 16.02	
8104	8106	3	Jun 25, 1981 176:07:30:00.011	41 55.01	121 59.70	
8105	8109	3	Jun 26, 1981 177:07:00:00.021	41 35.59	121 37.08	
8106	8105	4	Jun 30, 1981 181:07:30:00.020	41 32.89	122 16.02	
8107	8114	4	Jun 30, 1981 181:07:45:00.015	41 35.71	121 34.81	
8108	8102	4	Jun 30, 1981 181:08:00:00.033	41 19.33	122 44.85	
8109	8113	4	Jun 1, 1981 182:06:59:59.022	41 32.63	120 03.20	
8110	8111	4	Jun 1, 1981 182:07:14:59.025	41 30.22	120 58.69	
8111	8102	5	Jul 9, 1981 190:07:00:00.015	41 19.33	122 44.85	
8112	8114	5	Jul 9, 1981 190:07:15:00.021	41 35.71	121 34.81	
8113	8113	5	Jul 9, 1981 190:07:30:00.015	41 32.63	120 03.20	
8114	8105	5	Jul 9, 1981 190:07:45:00.018	41 32.89	122 16.02	
8115	8104	5	Jul 9, 1981 190:09:00:00.013	41 30.29	122 34.91	
8116	8110	6	Aug 13, 1981 225:07:15:00.020	41 58.64	120 54.92	1814
8117	8112	6	Aug 13, 1981 225:07:30:00.894	41 07.36	120 55.49	1814
8118	8105	6	Aug 13, 1981 225:07:45:00.010	41 32.89	122 16.02	
8119	8111	6	Aug 13, 1981 225:09:00:00.511	41 30.22	120 58.69	907
8120	8103	7	Aug 16, 1981 228:10:30:00.015	40 56.37	122 44.36	1814
8121	8101	7	Aug 16, 1981 228:10:45:00.012	41 46.81	122 38.98	1814
8122	8102	7	Aug 16, 1981 228:11:00:00.018	41 19.33	122 44.85	925
8123	8105	7	Aug 16, 1981 228:11:15:00.016	41 32.89	122 16.02	
8124	8114	8	Aug 20, 1981 232:07:00:00.001	41 35.71	121 34.81	
8125	8105	8	Aug 20, 1981 232:07:30:00.009	41 32.89	122 16.02	
8126	8108	8	Aug 20, 1981 232:07:45:00.007	41 14.60	121 59.77	
8127	8101	8	Aug 21, 1981 233:07:00:00.011	41 46.81	122 38.98	1361
8201	8216	9	Sep 18, 1982 261:06:00:00.014	41 29.83	121 54.75	
8202	8220	9	Sep 18, 1982 261:06:15:01.168	41 39.55	121 13.97	
8203	8112	9	Sep 18, 1982 261:06:30:00.008	41 07.36	120 55.49	
8204	8114	9	Sep 18, 1982 261:06:45:00.121	41 35.71	121 34.81	916
8205	8205	9	Sep 18, 1982 261:08:00:00.014	41 32.87	122 16.01	
8206	8111	10	Sep 22, 1982 265:06:00:00.008	41 30.22	120 58.69	925
8207	8218	10	Sep 22, 1982 265:06:15:00.008	41 39.48	121 13.99	
8208	8114	10	Sep 22, 1982 265:06:30:00.012	41 35.71	121 34.81	
8209	8219	10	Sep 22, 1982 265:08:15:00.016	41 20.60	121 29.58	907
8210	8217	10	Sep 22, 1982 265:08:30:00.015	41 49.93	121 35.17	
8211	8216	10	Sep 22, 1982 265:08:45:00.010	41 29.83	121 54.75	
8212	8203	11	Oct 8, 1982 281:06:30:00.007	40 21.34	121 18.26	
8213	8215	12	Oct 11, 1982 284:11:00:00.011	41 24.46	122 04.94	
8214	8202	13	Oct 14, 1982 287:06:30:00.016	40 27.61	121 28.40	
8215	8205	14	Oct 19, 1982 292:11:00:00.004	41 32.87	122 16.01	
8216	8201	15	Nov 7, 1982 311:07:30:00.008	40 42.92	121 42.58	925

Table 1, continued

Shot No.	Shot Pt.	Depl. No.	Shot Time (Date Jul.Day:Hr:Min:Sec)	North Latitude (deg,min)	West Longitude (deg,min)	Size (kg)
8501	8517	16	Sep 11, 1985 255:06:30:00.012	41 49.15	121 06.61	
8502	8518	16	Sep 11, 1985 255:06:34:00.009	41 13.53	121 11.81	
8503	8106	16	Sep 11, 1985 255:06:36:00.009	41 55.01	121 59.70	
8504	8111	16	Sep 12, 1985 255:08:45:00.013	41 30.22	120 58.69	
8505	8516	16	Sep 12, 1985 255:08:47:00.010	42 05.30	121 32.75	
8506	8519	16	Sep 12, 1985 255:08:49:00.009	41 07.40	121 32.81	
8507	8108	16	Sep 12, 1985 255:08:51:00.008	41 14.60	121 59.77	
8508	8504	16	Sep 12, 1985 255:11:00:00.008	41 30.31	122 34.74	
8509	8504	16	Sep 12, 1985 255:11:02:00.000	41 30.31	122 34.74	

TABLE 2A
Seismic Recorder Locations for deployment 1, 1978

Loc	North Latitude (deg,min)	West Longitude (deg,min)	Loc	North Latitude (deg,min)	West Longitude (deg,min)
1	41 18.03	122 04.18	132	41 41.11	121 32.63
2	41 27.10	121 52.75	133	41 40.69	121 26.42
3	41 31.45	121 41.67	134	41 40.10	121 23.14
101	41 18.06	122 04.17	135	41 39.87	121 19.02
102	41 18.69	122 03.99	136	41 42.41	121 16.49
103	41 19.20	122 03.40	138	41 46.89	121 11.41
104	41 19.68	122 02.83	140	41 49.81	121 04.37
105	41 20.28	122 02.25	141	41 44.02	121 14.73
106	41 20.51	122 01.29	161	41 15.75	121 48.67
107	41 20.74	122 00.61	162	41 16.72	121 46.82
108	41 20.60	121 59.16	163	41 19.13	121 46.68
109	41 21.08	121 58.37	164	41 20.91	121 47.09
110	41 21.99	121 56.81	165	41 22.41	121 46.99
112	41 24.60	121 53.96	166	41 23.55	121 47.47
113	41 25.39	121 53.42	167	41 24.24	121 47.59
114	41 26.25	121 52.25	168	41 25.25	121 47.31
116	41 26.76	121 50.33	169	41 25.88	121 46.90
118	41 27.93	121 47.02	171	41 27.17	121 50.86
119	41 28.71	121 46.67	172	41 27.83	121 51.05
121	41 30.06	121 45.34	173	41 28.36	121 51.69
122	41 30.62	121 44.63	174	41 29.27	121 52.25
123	41 30.73	121 43.73	175	41 30.05	121 53.47
125	41 31.25	121 42.23	176	41 31.24	121 54.07
126	41 31.44	121 41.68	177	41 32.46	121 54.63
127	41 32.95	121 42.04	178	41 33.90	121 54.88
128	41 34.60	121 42.86	179	41 34.77	121 56.47
130	41 38.24	121 36.22	180	41 35.61	121 57.42
131	41 39.68	121 35.22			

TABLE 2B
Seismic Recorder Locations for deployments 2-8, 1981

Loc	North Latitude (deg,min)	West Longitude (deg,min)	Elev (m)	Loc	North Latitude (deg,min)	West Longitude (deg,min)	Elev (m)
1	41 46.81	122 38.98		133	41 12.74	121 02.93	1274
2	41 19.33	122 44.85		134	41 12.73	121 03.96	1267
3	40 56.37	122 44.36		135	41 12.94	121 05.55	1267
4	41 30.29	122 34.91		136	41 13.71	121 06.23	1267
5	41 32.89	122 16.02		137	41 14.48	121 06.22	1267
6	41 55.01	121 59.70		138	41 15.26	121 06.50	1274
8	41 14.60	121 59.77		139	41 16.12	121 06.23	1286
9	41 35.59	121 37.08		140	41 16.15	121 08.49	1274
10	41 58.64	120 54.92		141	41 35.58	121 37.11	2060
11	41 30.22	120 58.69		142	41 35.78	121 38.19	2139
12	41 07.36	120 55.49		143	41 35.73	121 39.09	2087
13	41 32.63	120 03.20	1374	144	41 35.80	121 39.68	2060
14	41 35.71	121 34.81		145	41 35.92	121 40.54	1962
91	41 21.16	122 20.37		146	41 37.01	121 40.70	1822
92	41 21.16	122 20.37	1182	147	41 37.48	121 41.36	1722
93	41 21.16	122 20.37	1182	148	41 38.26	121 41.23	1694
94	41 21.16	122 20.37	1182	149	41 38.87	121 41.89	1652
95	41 21.16	122 20.37	1182	150	41 39.46	121 42.74	1530
99	41 21.08	122 20.40	1182	151	41 40.15	121 43.23	1499
101	41 25.09	121 22.29	1350	152	41 41.02	121 43.34	1463
102	41 24.29	121 21.46	1353	153	41 41.85	121 43.37	1450
103	41 23.77	121 20.96	1331	154	41 41.70	121 45.55	1481
104	41 24.14	121 19.49	1335	155	41 42.47	121 45.21	1493
105	41 23.95	121 18.55	1321	156	41 43.24	121 45.58	1456
106	41 23.23	121 18.41	1316	157	41 44.02	121 45.60	1414
107	41 22.85	121 17.91	1310	158	41 44.44	121 46.71	1341
108	41 22.23	121 17.29	1316	159	41 45.05	121 47.90	1335
109	41 21.80	121 16.24	1298	160	41 45.92	121 49.06	1328
110	41 21.10	121 15.58	1298	161	41 35.48	121 36.76	2060
111	41 20.25	121 15.40	1304	162	41 35.30	121 36.59	2048
112	41 20.09	121 14.39	1310	163	41 34.67	121 35.31	2036
113	41 20.20	121 13.59	1328	164	41 34.43	121 34.80	2054
114	41 19.59	121 12.95	1310	165	41 34.04	121 34.54	2048
115	41 19.41	121 12.18	1304	166	41 33.50	121 34.36	2078
116	41 18.73	121 11.92	1286	167	41 33.23	121 33.85	2011
117	41 18.21	121 11.63	1292	168	41 32.85	121 33.21	1950
118	41 17.12	121 11.29	1286	169	41 32.17	121 32.38	1950
119	41 16.28	121 11.34	1286	170	41 31.50	121 31.19	1725
120	41 16.66	121 08.87	1280	171	41 31.08	121 30.19	1688
122	41 07.06	120 56.36	1322	172	41 30.28	121 29.69	1591
123	41 07.80	120 57.19	1335	173	41 29.29	121 28.94	1499
124	41 07.98	120 57.63	1310	174	41 28.64	121 28.45	1481
125	41 08.16	120 57.62	1310	175	41 28.39	121 26.81	1386
126	41 08.82	120 57.64	1295	176	41 28.43	121 25.13	1344
127	41 09.09	120 58.04	1295	177	41 27.47	121 24.19	1316
128	41 09.44	120 58.56	1286	178	41 27.22	121 23.18	1328
129	41 10.01	120 59.55	1286	179	41 26.33	121 22.78	1341
130	41 10.11	121 00.49	1310	180	41 25.76	121 22.25	1345
131	41 10.98	121 01.64	1267	181	41 46.64	121 49.07	1328
132	41 12.31	121 01.64	1274	182	41 47.40	121 49.33	1383

Table 2B, continued.

Loc	North Latitude (deg,min)	West Longitude (deg,min)	Elev (m)	Loc	North Latitude (deg,min)	West Longitude (deg,min)	Elev (m)
183	41 48.20	121 49.85	1493	233	41 31.35	120 08.50	1371
184	41 49.30	121 49.53	1426	234	41 31.77	120 07.73	1362
185	41 50.07	121 51.19	1347	235	41 32.18	120 06.31	1362
186	41 50.30	121 51.89	1359	236	41 32.30	120 05.73	1365
187	41 50.67	121 52.60	1341	237	41 32.40	120 05.15	1366
188	41 51.04	121 53.95	1292	238	41 32.49	120 04.57	1371
189	41 51.30	121 55.03	1292	239	41 32.62	120 03.80	1374
190	41 51.93	121 55.43	1292	240	41 32.64	120 03.25	1374
191	41 51.97	121 56.17	1292	241	41 30.76	121 19.92	1298
192	41 51.97	121 56.86	1292	242	41 30.61	121 18.61	1298
193	41 52.58	121 57.35	1292	243	41 30.32	121 17.38	1310
194	41 52.98	121 57.37	1292	244	41 30.01	121 16.12	1328
195	41 53.55	121 57.15	1292	245	41 29.60	121 15.14	1365
196	41 53.70	121 57.99	1292	246	41 29.38	121 13.97	1402
197	41 54.04	121 58.52	1292	247	41 29.30	121 12.74	1420
198	41 54.15	121 59.69	1292	248	41 29.08	121 11.75	1432
199	41 54.58	121 59.70	1292	249	41 28.80	121 10.50	1432
200	41 55.02	121 59.73	1292	250	41 28.57	121 09.43	1432
201	41 28.47	120 44.26	1341	251	41 28.65	121 08.23	1456
202	41 28.99	120 42.83	1383	252	41 28.90	121 07.30	1456
203	41 29.53	120 41.72	1322	253	41 29.19	121 06.20	1444
204	41 29.43	120 40.51	1353	254	41 29.55	121 05.04	1469
205	41 29.21	120 39.15	1347	255	41 29.69	121 03.83	1481
206	41 29.22	120 37.99	1335	256	41 29.52	121 02.59	1481
207	41 29.65	120 36.88	1322	257	41 29.63	121 01.98	1487
208	41 29.83	120 35.63	1322	258	41 29.69	121 01.40	1487
209	41 30.02	120 34.35	1331	259	41 29.79	121 00.88	1481
210	41 30.06	120 32.89	1350	260	41 29.90	121 00.36	1481
211	41 30.45	120 31.14	1350	261	41 29.90	120 59.78	1505
212	41 30.55	120 30.07	1344	262	41 29.92	120 59.19	1517
213	41 30.90	120 29.00	1347	263	41 30.20	120 58.66	1514
214	41 31.80	120 28.08	1347	264	41 30.25	120 58.17	1520
215	41 32.42	120 26.94	1383	265	41 30.12	120 57.62	1514
216	41 33.02	120 25.76	1456	266	41 29.86	120 57.20	1516
217	41 33.67	120 24.50	1505	267	41 29.61	120 56.60	1516
218	41 33.74	120 23.12	1542	268	41 29.22	120 56.04	1514
219	41 33.53	120 21.87	1591	269	41 29.01	120 55.67	1514
220	41 33.32	120 20.58	1609	270	41 28.55	120 55.25	1487
221	41 33.65	120 19.37	1670	271	41 28.24	120 54.96	1420
222	41 33.58	120 18.18	1755	272	41 27.59	120 54.26	1322
223	41 33.61	120 17.32	1822	273	41 27.70	120 52.76	1322
224	41 33.79	120 16.14	1920	274	41 27.23	120 52.21	1310
225	41 33.27	120 15.16	1822	275	41 27.05	120 51.13	1310
226	41 32.72	120 14.37	1731	276	41 27.25	120 49.77	1322
227	41 32.19	120 13.58	1652	277	41 27.21	120 48.52	1322
228	41 32.06	120 12.83	1560	278	41 27.34	120 47.51	1316
229	41 31.95	120 12.15	1505	279	41 27.69	120 46.23	1322
230	41 31.69	120 11.19	1463	280	41 27.94	120 45.23	1322
231	41 31.77	120 09.87	1411	281	41 35.48	121 36.76	2060
232	41 31.77	120 09.10	1380	282	41 35.39	121 36.44	2042

Table 2B, continued.

Loc	North Latitude (deg,min)	West Longitude (deg,min)	Elev (m)	Loc	North Latitude (deg,min)	West Longitude (deg,min)	Elev (m)
283	41 35.39	121 36.04	2048	333	41 32.09	122 17.41	1066
284	41 35.29	121 35.55	2048	334	41 31.65	122 17.87	1066
285	41 35.44	121 35.12	2054	335	41 31.19	122 18.44	1054
286	41 35.65	121 34.84	2054	336	41 31.42	122 19.14	1011
287	41 35.74	121 34.17	2048	337	41 31.59	122 20.10	957
288	41 35.47	121 33.36	2066	338	41 31.75	122 21.18	896
289	41 35.18	121 32.90	2133	339	41 31.28	122 22.31	859
290	41 34.98	121 32.26	2145	340	41 30.36	122 23.32	859
291	41 35.42	121 31.18	2164	341	41 23.93	122 39.67	1255
292	41 34.72	121 29.96	2133	342	41 23.49	122 40.35	1231
293	41 34.03	121 28.69	1749	343	41 22.87	122 41.25	1182
294	41 35.11	121 27.58	1603	344	41 22.44	122 42.76	1158
295	41 34.20	121 27.05	1591	345	41 21.91	122 42.94	1133
296	41 34.75	121 25.27	1444	346	41 21.43	122 43.26	1133
297	41 34.23	121 24.73	1420	347	41 21.07	122 43.98	1194
298	41 31.37	121 24.33	1335	348	41 21.13	122 44.45	1097
299	41 30.70	121 22.86	1298	349	41 20.76	122 44.95	1072
300	41 30.94	121 21.28	1298	350	41 20.30	122 44.86	1036
301	41 29.70	122 24.10	914	351	41 19.65	122 45.01	1048
302	41 29.44	122 25.37	890	352	41 19.35	122 44.91	1024
303	41 29.27	122 26.59	890	353	41 18.42	122 47.50	963
304	41 28.78	122 28.41	890	354	41 17.60	122 49.95	1097
305	41 28.77	122 29.49	914	355	41 15.94	122 52.94	1304
306	41 29.39	122 30.34	890	356	41 13.78	122 56.31	1658
307	41 30.26	122 30.87	865	357	41 13.57	122 59.60	1353
308	41 30.54	122 31.95	890	358	41 12.58	123 03.42	975
309	41 30.32	122 32.61	896	359	41 10.69	123 05.06	816
310	41 30.21	122 33.45	914	361	41 35.21	121 37.16	2048
311	41 30.18	122 34.03	938	362	41 34.99	121 37.66	2057
312	41 30.22	122 34.89	963	363	41 34.97	121 38.31	2109
313	41 28.97	122 34.25	950	364	41 34.81	121 38.78	2115
314	41 28.31	122 35.24	987	365	41 34.86	121 39.32	2113
315	41 27.93	122 36.36	1036	366	41 34.92	121 39.91	2039
316	41 27.51	122 37.47	1085	367	41 34.77	121 40.41	1980
317	41 26.91	122 38.39	1231	368	41 34.60	121 41.32	1978
318	41 26.23	122 38.35	1511	369	41 34.27	121 42.06	1950
319	41 25.16	122 37.96	1450	370	41 34.64	121 42.82	1950
320	41 24.15	122 38.10	1328	371	41 34.65	121 43.85	1975
321	41 32.88	122 16.05	1103	372	41 34.05	121 44.24	1944
322	41 32.90	122 15.37	1152	373	41 34.06	121 45.29	1871
323	41 32.76	122 14.78	1188	374	41 33.57	121 46.34	1853
324	41 32.62	122 13.70	1286	375	41 34.00	121 47.28	1810
325	41 33.00	122 13.19	1292	376	41 34.09	121 48.14	1828
326	41 33.37	122 12.66	1328	377	41 34.25	121 49.16	1792
327	41 33.81	122 12.20	1353	378	41 34.19	121 50.19	1764
328	41 34.22	122 11.79	1408	381	41 34.58	122 09.01	1676
329	41 34.44	122 10.63	1517	382	41 34.25	122 07.83	1749
330	41 34.45	122 09.77	1615	383	41 33.64	122 07.41	1798
331	41 32.59	122 16.27	1078	384	41 33.32	122 06.67	1859
332	41 32.36	122 16.71	1078	385	41 32.92	122 05.96	1975

Table 2B, continued.

Loc	North Latitude (deg,min)	West Longitude (deg,min)	Elev (m)	Loc	North Latitude (deg,min)	West Longitude (deg,min)	Elev (m)
386	41 32.41	122 05.16	2066	436	41 24.82	120 55.90	1347
387	41 31.23	122 04.34	1670	437	41 13.38	120 55.43	1286
388	41 32.51	122 02.84	1554	438	41 13.09	120 55.65	1286
389	41 32.30	122 01.96	1645	439	41 12.18	120 56.22	1292
390	41 31.90	122 01.22	1682	440	41 25.34	120 56.66	1383
391	41 31.35	122 00.49	1712	441	41 47.65	120 52.79	1514
392	41 34.70	121 53.11	1481	442	41 46.92	120 53.21	1536
393	41 34.64	121 54.09	1481	443	41 46.42	120 54.96	1502
394	41 34.56	121 54.87	1475	444	41 45.74	120 57.11	1475
395	41 34.55	121 55.74	1481	445	41 44.96	120 57.61	1484
396	41 34.10	121 56.12	1493	446	41 44.03	120 57.95	1487
397	41 34.06	121 57.06	1511	447	41 43.16	120 58.33	1508
398	41 33.34	121 57.68	1792	448	41 42.26	120 58.60	1536
399	41 32.71	121 58.36	1926	449	41 41.40	120 58.99	1511
400	41 32.04	121 58.90	1981	450	41 40.52	120 59.05	1499
401	41 58.69	120 54.95	1554	451	41 39.68	120 58.90	1505
402	41 58.56	120 54.84	1554	452	41 38.80	120 58.83	1517
403	41 58.28	120 54.93	1554	453	41 37.87	120 58.91	1539
404	41 57.93	120 55.06	1554	454	41 37.06	120 59.19	1545
405	41 57.52	120 54.95	1560	455	41 36.33	120 59.32	1545
406	41 57.09	120 54.78	1554	456	41 35.91	120 59.48	1554
407	41 56.58	120 54.68	1554	457	41 35.40	120 59.15	1560
408	41 56.19	120 54.17	1524	458	41 34.83	120 59.24	1533
409	41 55.75	120 53.90	1493	459	41 34.28	120 58.89	1539
410	41 55.34	120 53.37	1493	460	41 33.80	120 58.45	1539
411	41 54.94	120 52.50	1487	461	41 33.43	120 58.50	1539
412	41 54.49	120 52.65	1487	462	41 33.01	120 58.54	1533
413	41 53.96	120 52.76	1481	463	41 32.47	120 58.46	1530
414	41 53.53	120 53.00	1499	464	41 31.90	120 58.06	1520
415	41 53.00	120 53.01	1536	465	41 31.47	120 58.17	1520
416	41 52.07	120 53.22	1524	466	41 31.04	120 58.25	1517
417	41 51.26	120 53.05	1505	467	41 30.63	120 58.42	1514
418	41 50.39	120 53.52	1481	468	41 30.20	120 58.66	1511
419	41 49.49	120 53.49	1484	469	41 29.94	120 58.69	1517
420	41 48.65	120 53.10	1498	470	41 29.43	120 58.77	1514
421	41 23.85	120 56.22	1304	471	41 29.01	120 58.94	1548
422	41 23.08	120 56.87	1383	472	41 28.49	120 58.56	1548
423	41 22.11	120 57.25	1438	473	41 27.99	120 58.36	1591
424	41 21.39	120 56.58	1463	474	41 27.52	120 58.05	1554
425	41 24.31	120 55.70	1304	475	41 27.07	120 57.76	1517
426	41 20.51	120 57.54	1554	476	41 26.53	120 57.77	1493
427	41 19.73	120 56.67	1566	477	41 26.12	120 57.58	1481
428	41 18.87	120 56.51	1524	478	41 25.68	120 57.55	1481
429	41 18.11	120 54.74	1395	481	41 11.60	120 55.90	1335
430	41 17.33	120 53.39	1383	482	41 11.27	120 56.00	1286
431	41 16.32	120 53.62	1347	483	41 10.80	120 55.87	1298
432	41 15.51	120 53.91	1322	484	41 10.32	120 56.50	1295
433	41 14.53	120 54.61	1301	485	41 09.88	120 56.48	1298
434	41 12.70	120 55.96	1286	486	41 09.47	120 56.45	1304
435	41 13.78	120 55.15	1286	487	41 09.06	120 55.96	1310

Table 2B, continued.

Loc	North Latitude (deg,min)	West Longitude (deg,min)	Elev (m)	Loc	North Latitude (deg,min)	West Longitude (deg,min)	Elev (m)
488	41 08.62	120 55.73	1322	538	41 16.29	122 41.62	1609
489	41 08.24	120 55.65	1322	539	41 15.97	122 41.52	1572
490	41 07.87	120 55.63	1322	540	41 15.14	122 39.91	1292
491	41 07.35	120 55.55	1347	541	41 14.32	122 39.48	1133
492	41 04.36	120 54.48	1426	542	41 13.19	122 38.77	963
493	41 01.96	120 54.25	1524	543	41 12.28	122 38.70	938
494	40 59.29	120 52.34	1749	544	41 11.37	122 39.14	890
495	40 56.56	120 52.08	1737	545	41 10.45	122 39.62	890
496	40 53.36	120 49.73	1776	546	41 09.65	122 39.87	853
497	40 51.35	120 49.40	1761	547	41 08.82	122 40.18	841
498	40 48.79	120 49.17	1731	548	41 08.07	122 41.67	829
499	40 46.36	120 48.65	1871	549	41 07.19	122 42.21	792
500	40 43.68	120 49.35	1755	550	41 06.01	122 42.36	768
501	41 46.78	122 39.00	963	551	41 05.19	122 42.37	743
502	41 46.88	122 39.55	1085	552	41 04.24	122 42.06	743
503	41 46.84	122 40.00	1121	553	41 03.50	122 42.12	719
504	41 46.61	122 40.25	1194	554	41 02.38	122 41.95	719
505	41 46.22	122 40.39	1255	555	41 01.45	122 41.56	755
506	41 45.88	122 40.87	1341	556	41 00.65	122 41.57	780
507	41 45.61	122 41.21	1316	557	40 59.86	122 42.12	731
508	41 45.19	122 41.38	1414	558	40 59.35	122 42.34	762
509	41 44.84	122 41.92	1536	559	40 59.01	122 42.41	769
510	41 44.48	122 42.97	1584	560	40 58.72	122 43.21	822
511	41 44.30	122 43.34	1414	561	40 58.52	122 43.36	838
512	41 44.09	122 42.42	1170	562	40 58.23	122 43.62	868
513	41 43.64	122 42.15	963	563	40 57.83	122 43.54	899
514	41 42.80	122 41.89	987	564	40 57.56	122 43.90	929
515	41 42.21	122 42.49	1182	565	40 57.07	122 44.38	960
516	41 41.38	122 42.96	1365	566	40 56.84	122 44.63	914
517	41 40.58	122 43.60	1267	567	40 56.58	122 44.54	899
518	41 39.72	122 44.12	1109	568	40 56.38	122 44.40	899
519	41 38.73	122 44.76	975	569	40 53.49	122 44.40	1036
520	41 37.95	122 44.11	926	570	40 50.76	122 45.75	944
521	41 21.49	122 45.09	1085	571	40 48.05	122 46.53	777
522	41 21.13	122 45.06	1085	572	40 45.54	122 47.94	777
523	41 20.79	122 44.97	1072	573	40 42.04	122 46.37	914
524	41 20.52	122 45.03	1060	574	40 39.49	122 44.00	914
525	41 20.29	122 44.89	1036	575	40 36.74	122 42.65	1432
526	41 20.06	122 45.03	1036	581	41 37.03	122 43.13	975
527	41 19.72	122 45.05	1048	582	41 36.25	122 43.96	1011
528	41 19.39	122 44.91	1024	583	41 35.43	122 43.29	1060
529	41 19.20	122 44.81	1024	584	41 34.57	122 41.58	1060
530	41 18.85	122 45.09	1011	585	41 33.61	122 41.30	1085
531	41 18.57	122 45.91	987	586	41 32.68	122 40.82	1085
532	41 18.17	122 45.29	1060	587	41 31.85	122 41.17	1109
533	41 17.95	122 44.63	1097	588	41 30.99	122 41.52	1158
534	41 17.68	122 43.94	1219	589	41 30.08	122 41.54	1207
535	41 17.40	122 42.95	1499	590	41 29.13	122 42.14	1255
536	41 17.02	122 42.10	1560	591	41 28.28	122 43.48	1584
537	41 16.58	122 41.82	1633	592	41 27.41	122 41.57	1328

Table 2B, continued.

Loc	North Latitude (deg,min)	West Longitude (deg,min)	Elev (m)	Loc	North Latitude (deg,min)	West Longitude (deg,min)	Elev (m)
593	41 26.62	122 41.99	1255	643	41 28.56	122 09.99	1999
594	41 25.65	122 42.89	1194	644	41 28.52	122 10.88	2036
595	41 24.77	122 43.70	1158	645	41 29.02	122 11.02	1840
596	41 23.90	122 44.26	1133	646	41 29.32	122 11.53	1719
597	41 22.93	122 44.43	1121	647	41 29.37	122 12.62	1645
598	41 22.55	122 44.50	1109	648	41 29.82	122 12.93	1548
599	41 22.19	122 44.72	1097	649	41 29.90	122 13.74	1450
600	41 21.79	122 45.03	1085	650	41 30.07	122 14.45	1432
601	41 14.58	121 59.81	1085	651	41 30.38	122 14.89	1395
602	41 14.63	122 00.39	1060	652	41 30.90	122 14.73	1335
603	41 14.76	122 00.94	1060	653	41 31.53	122 14.47	1261
604	41 14.92	122 01.44	1021	654	41 31.96	122 14.73	1225
605	41 15.30	122 01.75	1036	655	41 32.29	122 15.15	1188
606	41 15.70	122 02.38	1036	656	41 32.61	122 15.50	1213
607	41 16.20	122 02.35	1060	657	41 32.88	122 16.04	1103
608	41 13.58	121 58.92	1231	658	41 33.22	122 15.70	1115
609	41 12.65	121 57.72	1304	659	41 33.71	122 15.70	1091
610	41 12.08	121 55.39	1377	660	41 34.17	122 16.05	1060
611	41 10.36	121 55.58	1670	661	41 16.65	122 02.54	1060
612	41 14.37	121 53.26	1194	662	41 17.03	122 02.67	1072
613	41 06.36	121 49.64	1304	663	41 17.45	122 02.99	1109
614	41 03.49	121 49.47	1097	664	41 17.84	122 03.18	1133
615	41 01.34	121 48.26	1243	665	41 18.38	122 03.47	1158
616	41 01.27	121 43.21	963	666	41 18.92	122 03.47	1219
617	40 59.78	121 40.18	1121	667	41 19.47	122 03.00	1255
618	40 57.33	121 38.31	944	668	41 20.20	122 02.85	1304
619	40 55.54	121 35.91	957	669	41 20.77	122 03.65	1426
620	40 52.99	121 34.02	969	670	41 21.32	122 04.57	1548
621	41 34.52	122 16.76	1011	671	41 22.06	122 05.12	1670
622	41 34.89	122 17.35	969	672	41 23.00	122 04.82	1694
623	41 35.19	122 17.81	950	673	41 23.78	122 04.65	1694
624	41 35.58	122 18.07	932	674	41 24.62	122 04.85	1694
625	41 36.13	122 18.12	932	675	41 25.27	122 05.36	1804
626	41 36.38	122 18.45	920	676	41 25.71	122 06.71	1999
627	41 36.74	122 18.77	926	677	41 26.35	122 07.19	2060
628	41 37.10	122 19.18	920	678	41 27.05	122 07.71	2060
629	41 37.46	122 19.57	914	681	41 46.81	122 39.00	950
630	41 37.75	122 19.91	896	682	41 46.64	122 38.33	914
631	41 38.19	122 20.29	877	683	41 46.36	122 38.07	865
632	41 38.71	122 21.22	859	684	41 46.00	122 37.66	816
633	41 39.48	122 21.83	847	685	41 45.61	122 37.19	768
634	41 39.59	122 22.56	841	686	41 45.28	122 36.54	865
635	41 39.61	122 23.47	822	687	41 45.08	122 36.46	841
636	41 39.64	122 24.44	810	688	41 45.08	122 35.68	792
637	41 40.39	122 24.88	829	689	41 44.68	122 35.75	780
638	41 40.70	122 26.14	810	690	41 44.31	122 35.37	768
639	41 40.82	122 27.29	810	691	41 43.90	122 34.84	768
640	41 41.25	122 28.18	798	692	41 43.74	122 34.21	768
641	41 27.47	122 08.41	2048	693	41 43.66	122 33.58	743
642	41 27.94	122 09.59	2060	694	41 43.51	122 33.09	774

Table 2B, continued.

Loc	North Latitude (deg,min)	West Longitude (deg,min)	Elev (m)	Loc	North Latitude (deg,min)	West Longitude (deg,min)	Elev (m)
695	41 43.49	122 32.21	768	698	41 43.61	122 29.85	798
696	41 43.37	122 31.81	768	699	41 42.74	122 29.25	786
697	41 42.89	122 31.22	816	700	41 42.04	122 28.72	786

TABLE 2C
Seismic Recorder Locations for deployments 9-15, 1982

Loc	North Latitude (deg,min)	West Longitude (deg,min)	Elev (m)	Loc	North Latitude (deg,min)	West Longitude (deg,min)	Elev (m)
1	40 42.92	121 42.58		112	41 38.80	121 15.43	1274
2	40 27.61	121 28.40		113	41 38.96	121 14.96	1283
3	40 21.34	121 18.26		114	41 39.29	121 14.44	1286
5	41 32.87	122 16.01		115	41 39.46	121 13.97	1295
11	41 30.22	120 58.69		116	41 39.53	121 13.99	1295
12	41 07.36	120 55.49		117	41 39.65	121 12.89	1307
14	41 35.71	121 34.81		118	41 38.93	121 10.86	1335
15	41 24.46	122 04.94		119	41 38.59	121 09.15	1356
16	41 29.83	121 54.75		120	41 39.30	121 07.65	1392
17	41 49.93	121 35.17		121	41 32.11	121 43.54	1767
18	41 39.48	121 13.99		122	41 33.01	121 43.52	1816
19	41 20.60	121 29.58		123	41 33.11	121 42.97	1889
20	41 39.55	121 13.97		124	41 33.38	121 42.64	1901
69	40 25.42	121 21.55	1972	125	41 33.55	121 42.22	1914
70	40 29.68	121 25.48		126	41 34.31	121 41.86	1950
71	40 54.05	121 41.99		127	41 34.51	121 41.41	1975
72	40 55.39	121 43.33		128	41 34.69	121 40.95	1981
73	40 57.00	121 44.17		129	41 34.91	121 39.90	2048
74	40 57.91	121 44.70		130	41 34.86	121 39.32	2109
75	40 59.38	121 44.90		131	41 34.83	121 38.72	2139
76	40 43.18	121 42.26		132	41 34.97	121 38.30	2145
77	40 32.39	121 32.78		133	41 35.00	121 37.65	2103
78	40 33.08	121 32.29		134	41 35.21	121 37.12	2066
79	40 33.50	121 31.82		135	41 35.22	121 36.64	2042
80	40 34.31	121 30.01		136	41 35.41	121 36.15	2048
81	40 35.26	121 28.64		137	41 35.29	121 35.56	2042
85	40 32.22	121 33.67		138	41 35.43	121 35.14	2054
87	40 33.94	121 30.36		139	41 35.70	121 34.80	2042
88	40 34.79	121 29.86		140	41 35.75	121 34.16	2042
90	40 27.94	121 28.63		141	41 32.88	122 16.05	1097
91	40 28.25	121 29.47		142	41 32.76	122 14.77	1188
92	40 28.42	121 29.79		143	41 32.31	122 13.28	1310
93	40 28.44	121 30.25		144	41 32.33	122 11.63	1389
94	40 27.30	121 31.48		145	41 32.07	122 10.51	1615
95	40 26.76	121 31.29		146	41 31.63	122 07.37	2273
96	40 26.62	121 31.68		147	41 32.21	122 08.91	2279
97	40 27.01	121 31.96		148	41 31.03	122 06.05	1670
98	40 26.96	121 32.14		149	41 31.24	122 04.34	1670
99	40 26.42	121 32.14		150	41 31.33	122 02.86	1667
101	41 38.16	121 21.84	1335	151	41 31.33	122 01.65	1767
102	41 38.48	121 20.94	1310	152	41 30.87	122 01.18	1938
103	41 38.55	121 20.37	1310	154	41 30.23	121 59.52	2026
104	41 38.65	121 19.92	1310	155	41 30.54	121 58.88	2005
105	41 38.77	121 19.41	1298	156	41 29.96	121 57.98	1755
106	41 38.82	121 18.85	1298	157	41 29.52	121 57.41	1682
107	41 38.87	121 18.29	1286	158	41 29.34	121 56.74	1694
108	41 38.94	121 17.76	1288	159	41 29.28	121 56.07	1682
109	41 38.91	121 17.18	1286	160	41 29.27	121 54.99	1682
110	41 38.92	121 16.68	1274	161	41 35.54	121 33.88	2048
111	41 38.77	121 16.11	1274	162	41 35.01	121 32.45	2097

Table 2C, continued.

Loc	North Latitude (deg,min)	West Longitude (deg,min)	Elev (m)	Loc	North Latitude (deg,min)	West Longitude (deg,min)	Elev (m)
163	41 35.08	121 31.99	2115	213	41 22.99	121 34.38	
164	41 35.24	121 31.41	2164	214	41 28.89	121 37.81	
165	41 35.36	121 30.82	2084	215	41 27.28	121 38.90	
166	41 35.13	121 30.35	2084	216	41 25.68	121 39.22	
167	41 35.23	121 29.91	2097	217	41 24.14	121 39.81	
168	41 34.95	121 29.14	1908	218	41 22.28	121 41.61	
169	41 34.93	121 28.66	1786	219	41 20.29	121 43.43	
170	41 34.84	121 27.94	1664	220	41 18.29	121 46.06	
171	41 35.10	121 27.57	1603	221	41 49.90	121 35.16	
172	41 35.36	121 27.19	1554	222	41 49.28	121 35.03	
173	41 35.71	121 26.20	1469	223	41 48.16	121 34.95	
174	41 36.39	121 25.71	1432	224	41 46.91	121 34.04	
175	41 36.83	121 25.30	1420	225	41 45.17	121 33.26	
176	41 37.14	121 24.87	1408	226	41 43.54	121 31.72	
177	41 37.37	121 24.34	1389	227	41 41.77	121 32.36	
178	41 37.38	121 23.90	1383	228	41 38.70	121 30.78	
179	41 37.25	121 23.44	1310	229	41 39.57	121 28.15	
180	41 37.44	121 22.90	1359	230	41 37.03	121 31.10	
181	41 29.79	121 54.81	1621	231	41 37.43	121 27.43	
182	41 29.82	121 54.26	1670	232	41 40.20	121 19.86	
183	41 30.01	121 53.53	1697	233	41 40.64	121 23.88	
184	41 29.75	121 53.00	1670	234	41 39.15	121 24.62	
185	41 29.78	121 52.30	1694	235	41 41.45	121 26.87	
186	41 29.97	121 51.92	1700	236	41 42.47	121 29.02	
187	41 29.99	121 51.43	1703	237	41 43.26	121 24.96	
188	41 30.10	121 50.86	1706	238	41 44.84	121 23.35	
189	41 29.96	121 50.15	1693	239	41 46.52	121 21.62	
190	41 29.91	121 49.62	1690	240	41 48.87	121 20.04	
191	41 30.15	121 48.96	1758	241	41 46.64	121 49.07	
192	41 30.10	121 48.29	1746	242	41 45.05	121 47.90	
193	41 30.25	121 47.85	1749	243	41 43.24	121 45.57	
194	41 30.49	121 47.55	1764	244	41 41.85	121 43.37	
195	41 30.85	121 47.12	1781	245	41 39.46	121 42.74	
196	41 31.23	121 46.87	1783	246	41 37.59	121 46.81	
197	41 31.17	121 46.14	1766	247	41 35.79	121 42.93	
198	41 31.16	121 45.48	1748	248	41 34.03	121 45.28	
199	41 31.22	121 44.38	1712	249	41 34.26	121 49.18	
200	41 31.51	121 44.26	1725	250	41 36.56	121 39.91	
201	41 31.07	121 30.21		251	41 37.66	121 38.22	
202	41 31.01	121 31.96		252	41 36.65	121 36.47	
203	41 31.07	121 32.63		253	41 38.33	121 35.91	
204	41 30.26	121 35.36		254	41 38.45	121 33.36	
205	41 28.01	121 35.76		257	41 40.13	121 38.99	
206	41 28.08	121 32.85		258	41 38.26	121 41.22	
207	41 26.83	121 29.19		259	41 43.82	121 40.21	
208	41 25.25	121 29.21		260	41 47.08	121 40.25	
209	41 23.84	121 29.72		261	41 28.56	121 09.43	
210	41 22.62	121 29.04		262	41 29.08	121 11.75	
211	41 20.64	121 29.55		263	41 30.01	121 16.13	
212	41 21.63	121 29.58		264	41 30.62	121 18.61	

Table 2C, continued.

Loc	North Latitude (deg,min)	West Longitude (deg,min)	Elev (m)	Loc	North Latitude (deg,min)	West Longitude (deg,min)	Elev (m)
265	41 30.94	121 21.28		334	40 47.21	121 42.39	
266	41 28.61	121 26.16		335	40 48.01	121 42.20	
267	41 30.41	121 24.34		336	40 48.98	121 42.31	
268	41 31.37	121 24.33		337	40 49.85	121 42.37	
269	41 32.74	121 26.02		338	40 50.55	121 42.66	
270	41 34.21	121 27.05		339	40 51.64	121 42.76	
271	41 33.81	121 30.49		340	40 52.48	121 42.41	
272	41 34.04	121 28.68		341	40 29.55	121 25.59	
286	41 29.06	121 42.68		342	40 30.01	121 26.05	
293	41 33.09	121 33.41		343	40 30.23	121 27.05	
294	41 31.73	121 30.28		344	40 30.90	121 27.84	
295	41 33.27	121 35.13		345	40 31.34	121 28.34	
296	41 31.16	121 37.67		346	40 32.17	121 29.39	
297	41 32.77	121 38.60		347	40 33.00	121 29.88	
298	41 33.70	121 37.34		348	40 33.55	121 30.84	
299	41 31.62	121 41.23		349	40 34.19	121 31.65	
300	41 26.72	121 47.48		350	40 35.39	121 31.95	
301	40 27.58	121 24.14		351	40 35.73	121 32.83	
302	40 26.66	121 25.20		352	40 36.35	121 33.66	
303	40 30.97	121 40.30		353	40 37.19	121 33.80	
304	40 25.06	121 38.88		354	40 37.56	121 34.77	
305	40 22.66	121 32.05		355	40 32.56	121 34.67	
306	40 17.18	121 15.84		356	40 32.30	121 35.57	
307	40 18.07	121 16.39		357	40 31.79	121 36.16	
308	40 19.10	121 16.51		358	40 31.35	121 36.90	
309	40 19.58	121 17.25		359	40 30.01	121 37.62	
310	40 20.37	121 17.44		360	40 29.71	121 38.04	
311	40 21.17	121 18.27		361	40 23.10	121 32.08	
312	40 21.80	121 18.48		362	40 16.74	121 15.22	
313	40 22.30	121 18.70		363	40 15.74	121 14.59	1389
314	40 23.20	121 18.81		364	40 15.29	121 14.14	1389
315	40 23.73	121 19.70		365	40 14.51	121 13.51	1380
316	40 24.54	121 19.98		366	40 13.79	121 12.93	1402
317	40 25.13	121 20.78		367	40 13.31	121 11.89	1377
318	40 26.01	121 21.45		368	40 12.63	121 11.10	1402
319	40 26.22	121 22.29		369	40 12.20	121 10.05	1426
320	40 26.60	121 23.67		370	40 11.78	121 09.06	1426
321	40 38.83	121 36.59		371	40 11.15	121 07.51	1426
322	40 39.62	121 37.31		372	40 10.43	121 07.81	1731
323	40 39.63	121 39.01		373	40 09.79	121 07.31	1731
324	40 40.06	121 39.90		374	40 09.30	121 06.06	1426
325	40 41.02	121 40.09		375	40 08.42	121 05.59	1524
326	40 42.08	121 40.66		376	40 07.89	121 04.35	1463
327	40 42.97	121 40.93		377	40 07.34	121 04.09	1658
328	40 42.93	121 42.59		378	40 06.72	121 02.88	1792
329	40 43.94	121 41.84		379	40 06.07	121 02.10	1536
330	40 43.91	121 41.12		380	40 05.41	121 01.46	1499
331	40 44.63	121 41.44		381	40 27.93	121 31.54	
332	40 45.51	121 41.67		382	40 24.01	121 26.86	
333	40 46.28	121 42.19		383	40 23.83	121 22.04	

Table 2C, continued.

Loc	North Latitude (deg,min)	West Longitude (deg,min)	Elev (m)	Loc	North Latitude (deg,min)	West Longitude (deg,min)	Elev (m)
384	40 28.75	121 52.45		513	41 19.55	122 12.17	
385	40 27.45	121 29.03		514	41 17.95	122 10.82	
386	40 27.30	121 29.89		515	41 19.95	122 09.79	
387	40 27.28	121 30.31		516	41 19.95	122 07.50	
388	40 27.24	121 30.88		517	41 20.93	122 05.82	
389	40 33.29	121 11.48		518	41 16.50	122 10.01	
390	40 34.05	121 24.21		519	41 15.05	122 09.55	
391	40 36.57	121 18.50		520	41 12.87	122 08.88	
392	40 38.23	121 36.41		521	41 26.31	122 27.28	
393	40 28.57	121 24.86		522	41 25.75	122 29.79	
394	40 28.98	121 25.69		523	41 24.39	122 31.22	
395	40 28.43	121 25.90		524	41 22.43	122 32.19	
396	40 27.93	121 26.46		525	41 20.23	122 32.05	
397	40 27.70	121 27.17		526	41 19.11	122 33.49	
398	40 27.06	121 26.52		527	41 26.65	122 23.91	
399	40 27.61	121 27.86		528	41 27.68	122 22.94	
400	40 27.62	121 28.43		529	41 29.31	122 22.11	
401	41 14.24	121 59.05		530	41 33.23	122 22.86	
403	41 13.05	121 58.42		531	41 34.89	122 23.88	
405	41 12.39	121 56.51		532	41 29.92	122 19.73	
407	41 11.45	121 55.83		533	41 31.04	122 18.86	
419	41 21.05	122 03.19		534	41 32.86	122 16.08	
425	41 33.74	122 15.70		535	41 28.97	122 14.46	
445	41 43.25	122 31.94		536	41 27.94	122 13.73	
455	41 45.55	122 37.27		537	41 30.39	122 16.40	
459	41 46.94	122 38.73		538	41 29.62	122 17.88	
481	41 21.08	122 04.13		539	41 28.03	122 17.80	
483	41 21.66	122 04.99		540	41 26.21	122 18.87	
485	41 22.50	122 04.94		541	41 35.78	122 20.09	
486	41 23.01	122 04.79		542	41 36.30	122 21.45	
487	41 23.39	122 04.89		543	41 37.42	122 22.67	
489	41 24.19	122 04.77		544	41 37.47	122 24.59	
490	41 24.48	122 04.96		545	41 38.07	122 26.19	
492	41 24.86	122 05.27		546	41 36.78	122 26.86	
494	41 25.43	122 05.98		547	41 38.40	122 27.88	
496	41 26.05	122 06.93		548	41 38.87	122 29.70	
498	41 26.76	122 07.20		549	41 35.72	122 25.45	
500	41 27.14	122 08.26		550	41 37.97	122 32.32	
501	41 16.67	122 19.83		551	41 38.44	122 34.44	
502	41 15.34	122 20.96		552	41 39.39	122 36.38	
503	41 15.34	122 22.58		553	41 39.48	122 37.46	
504	41 14.31	122 23.74		554	41 40.59	122 43.27	
505	41 20.24	122 19.29		555	41 46.19	122 21.48	
506	41 21.39	122 19.41		556	41 47.64	122 21.59	
507	41 23.00	122 19.31		557	41 49.11	122 21.69	
508	41 24.47	122 19.31		558	41 49.89	122 23.07	
509	41 21.08	122 17.01		559	41 52.93	122 22.66	
510	41 20.73	122 15.09		560	41 53.31	122 24.19	
511	41 21.43	122 13.17		561	41 38.72	122 02.74	
512	41 21.60	122 11.98		562	41 38.32	122 00.94	

Table 2C, continued.

Loc	North Latitude (deg,min)	West Longitude (deg,min)	Elev (m)	Loc	North Latitude (deg,min)	West Longitude (deg,min)	Elev (m)
563	41 37.17	122 04.28		613	41 06.36	121 49.64	1304
564	41 34.78	122 06.32		614	41 03.49	121 49.47	1097
565	41 38.69	121 57.52		615	41 01.34	121 48.26	1243
566	41 39.67	121 55.69		616	41 01.27	121 43.21	963
567	41 41.07	121 54.21		617	40 59.78	121 40.18	1121
568	41 41.64	121 52.47		618	40 57.33	121 38.31	944
569	41 42.60	121 50.76		619	40 55.54	121 35.91	957
570	41 43.17	121 49.20		620	40 52.99	121 34.02	969
571	41 43.83	121 47.94		621	41 34.52	122 16.76	1011
572	41 29.47	122 08.20		622	41 34.89	122 17.35	969
573	41 28.70	122 05.69		623	41 35.19	122 17.81	950
574	41 27.37	122 04.65		624	41 35.58	122 18.07	932
575	41 26.74	122 00.50		625	41 36.13	122 18.12	932
576	41 26.16	121 59.37		626	41 36.38	122 18.45	920
577	41 24.93	121 57.46		627	41 36.74	122 18.77	926
578	41 23.22	121 56.29		628	41 37.10	122 19.18	920
579	41 23.08	121 53.65		629	41 37.46	122 19.57	914
580	41 22.32	121 51.68		630	41 37.75	122 19.91	896
581	41 30.17	122 10.01		631	41 38.19	122 20.29	877
582	41 34.14	122 15.26		632	41 38.71	122 21.22	859
583	41 38.43	122 20.48		633	41 39.48	122 21.83	847
584	41 41.36	122 22.12		634	41 39.59	122 22.56	841
585	41 40.50	122 20.09		635	41 39.61	122 23.47	822
586	41 43.59	122 23.25		636	41 39.64	122 24.44	810
587	41 42.91	122 20.34		637	41 40.39	122 24.88	829
588	41 44.22	122 20.75		638	41 40.70	122 26.14	810
589	41 45.30	122 18.34		639	41 40.82	122 27.29	810
590	41 45.36	122 15.35		640	41 41.25	122 28.18	798
591	41 38.69	122 13.95		641	41 27.47	122 08.41	2048
592	41 36.84	122 13.60		642	41 27.94	122 09.59	2060
593	41 40.96	122 13.21		643	41 28.56	122 09.99	1999
594	41 42.20	122 11.92		644	41 28.52	122 10.88	2036
595	41 44.92	122 08.63		645	41 29.02	122 11.02	1840
596	41 47.61	122 07.21		646	41 29.32	122 11.53	1719
597	41 48.80	122 07.02		647	41 29.37	122 12.62	1645
598	41 49.73	122 07.57		648	41 29.82	122 12.93	1548
599	41 50.48	122 07.28		649	41 29.90	122 13.74	1450
600	41 49.79	122 04.98		650	41 30.07	122 14.45	1432
601	41 14.58	121 59.81	1085	651	41 30.38	122 14.89	1395
602	41 14.63	122 00.39	1060	652	41 30.90	122 14.73	1335
603	41 14.76	122 00.94	1060	653	41 31.53	122 14.47	1261
604	41 14.92	122 01.44	1021	654	41 31.96	122 14.73	1225
605	41 15.30	122 01.75	1036	655	41 32.29	122 15.15	1188
606	41 15.70	122 02.38	1036	656	41 32.61	122 15.50	1213
607	41 16.20	122 02.35	1060	657	41 32.88	122 16.04	1103
608	41 13.58	121 58.92	1231	658	41 33.22	122 15.70	1115
609	41 12.65	121 57.72	1304	659	41 33.71	122 15.70	1091
610	41 12.08	121 55.39	1377	660	41 34.17	122 16.05	1060
611	41 10.36	121 55.58	1670	661	41 16.65	122 02.54	1060
612	41 14.37	121 53.26	1194	662	41 17.03	122 02.67	1072

Table 2C, continued.

Loc	North Latitude (deg,min)	West Longitude (deg,min)	Elev (m)	Loc	North Latitude (deg,min)	West Longitude (deg,min)	Elev (m)
663	41 17.45	122 02.99	1109	684	41 46.00	122 37.66	816
664	41 17.84	122 03.18	1133	685	41 45.61	122 37.19	768
665	41 18.38	122 03.47	1158	686	41 45.28	122 36.54	865
666	41 18.92	122 03.47	1219	687	41 45.08	122 36.46	841
667	41 19.47	122 03.00	1255	688	41 45.08	122 35.68	792
668	41 20.20	122 02.85	1304	689	41 44.68	122 35.75	780
669	41 20.77	122 03.65	1426	690	41 44.31	122 35.37	768
670	41 21.32	122 04.57	1548	691	41 43.90	122 34.84	768
671	41 22.06	122 05.12	1670	692	41 43.74	122 34.21	768
672	41 23.00	122 04.82	1694	693	41 43.66	122 33.58	743
673	41 23.78	122 04.65	1694	694	41 43.51	122 33.09	774
674	41 24.62	122 04.85	1694	695	41 43.49	122 32.21	768
675	41 25.27	122 05.36	1804	696	41 43.37	122 31.81	768
676	41 25.71	122 06.71	1999	697	41 42.89	122 31.22	816
677	41 26.35	122 07.19	2060	698	41 43.61	122 29.85	798
678	41 27.05	122 07.71	2060	699	41 42.74	122 29.25	786
681	41 46.81	122 39.00	950	700	41 42.04	122 28.72	786
682	41 46.64	122 38.33	914	999	40 15.47	121 09.06	
683	41 46.36	122 38.07	865				

TABLE 2D
Seismic Recorder Locations for deployment 16, 1985

Loc	North Latitude (deg,min)	West Longitude (deg,min)	Elev (m)	Loc	North Latitude (deg,min)	West Longitude (deg,min)	Elev (m)
4	41 30.31	122 34.74	963	406	41 34.16	121 34.58	2072
6	41 55.01	121 59.70	1292	407	41 34.40	121 33.59	2078
8	41 14.60	121 59.77	1085	408	41 34.48	121 32.66	2136
10	41 32.21	121 32.14	1883	409	41 34.53	121 32.00	2121
11	41 32.43	121 31.24	1798	410	41 34.74	121 30.99	2362
12	41 32.47	121 30.29	1810	411	41 34.92	121 29.91	2106
16	42 5.30	121 32.75	1359	412	41 34.95	121 29.14	1895
17	41 49.15	121 6.61	1367	413	41 35.14	121 28.19	1697
18	41 13.53	121 11.81	1281	414	41 35.23	121 27.40	1584
19	41 7.40	121 32.81	1021	415	41 35.52	121 26.63	1508
21	41 30.22	120 58.69	1511	502	41 34.28	121 37.78	2115
106	41 32.27	121 35.40	1959	503	41 34.37	121 36.83	2127
107	41 32.30	121 34.49	1950	504	41 34.50	121 36.00	2048
108	41 32.57	121 33.53	1926	505	41 34.66	121 35.29	2042
109	41 32.75	121 32.69	1953	506	41 34.83	121 34.23	2103
110	41 32.99	121 31.92	2036	507	41 34.94	121 33.17	2084
111	41 33.05	121 30.79	1892	508	41 35.07	121 32.46	2081
112	41 33.12	121 29.89	1914	509	41 35.26	121 31.47	2118
113	41 33.32	121 29.09	1859	510	41 35.32	121 30.56	2133
114	41 33.27	121 28.31	1761	511	41 35.51	121 29.72	2133
204	41 32.66	121 36.81	2005	512	41 35.74	121 28.61	1956
205	41 32.78	121 35.78	2017	513	41 35.91	121 27.99	1441
206	41 32.92	121 35.23	2008	514	41 36.00	121 27.18	1767
207	41 33.14	121 34.11	2011	601	41 34.91	121 38.36	2129
208	41 33.12	121 33.20	1969	602	41 34.96	121 37.41	2081
209	41 33.43	121 32.43	2017	603	41 35.13	121 36.69	2042
210	41 33.56	121 31.66	2069	604	41 35.28	121 35.71	2045
211	41 33.64	121 30.69	2048	605	41 35.33	121 34.96	2060
212	41 33.90	121 29.77	2072	606	41 35.52	121 33.85	2048
213	41 34.02	121 28.78	1770	607	41 35.61	121 33.12	2066
214	41 34.03	121 27.97	1697	608	41 35.86	121 32.16	2151
215	41 34.20	121 27.09	1606	609	41 35.88	121 31.18	2151
299	41 34.01	121 28.71	1752	610	41 35.98	121 30.12	2252
303	41 33.43	121 37.47	2036	611	41 36.17	121 29.41	2072
304	41 32.97	121 36.61	2026	612	41 36.33	121 28.50	1889
305	41 33.23	121 35.51	2081	613	41 36.52	121 27.71	1773
306	41 33.59	121 34.88	2072	614	41 36.51	121 26.91	1530
307	41 33.66	121 33.94	2060	701	41 35.52	121 37.89	2121
308	41 33.83	121 32.99	2090	702	41 35.58	121 37.16	2069
309	41 33.93	121 32.08	2109	703	41 35.73	121 36.30	2054
310	41 34.12	121 31.30	2121	704	41 35.85	121 35.42	2051
311	41 34.29	121 30.06	2270	705	41 35.93	121 34.50	2057
312	41 34.37	121 29.51	2133	706	41 36.15	121 33.45	2231
313	41 34.61	121 28.69	1792	707	41 36.28	121 32.70	2212
314	41 34.74	121 27.73	1664	708	41 36.43	121 31.95	2206
315	41 34.77	121 26.91	1554	709	41 36.65	121 31.00	2109
402	41 33.61	121 38.08	1981	710	41 36.70	121 30.15	2170
403	41 33.75	121 37.24	2139	711	41 36.97	121 29.04	1926
404	41 33.92	121 36.95	2209	712	41 37.03	121 28.38	1767
405	41 34.17	121 35.31	2084	713	41 37.30	121 27.42	1603

Table 2D, continued.

Loc	North Latitude (deg,min)	West Longitude (deg,min)	Elev (m)	Loc	North Latitude (deg,min)	West Longitude (deg,min)	Elev (m)
800	41 35.81	121 38.74	2115	910	41 38.13	121 29.77	1834
801	41 36.23	121 37.65	2157	911	41 38.13	121 28.73	1770
802	41 36.20	121 36.71	2087	912	41 38.38	121 27.76	1627
803	41 36.40	121 36.09	2127	1000	41 37.30	121 38.19	2057
804	41 36.42	121 35.26	2100	1001	41 37.27	121 37.19	2109
805	41 36.67	121 34.51	2118	1002	41 37.65	121 36.54	2066
806	41 36.64	121 33.14	2411	1003	41 37.58	121 35.79	2197
807	41 36.96	121 32.51	2237	1004	41 37.82	121 34.68	2118
808	41 37.04	121 31.63	2090	1005	41 37.98	121 33.65	2011
809	41 37.16	121 30.82	2145	1006	41 38.17	121 32.73	1935
810	41 37.42	121 29.82	1889	1007	41 38.16	121 32.05	1917
811	41 37.57	121 29.08	1792	1008	41 38.29	121 31.20	1938
812	41 37.71	121 28.07	1709	1009	41 38.63	121 30.08	1847
813	41 37.81	121 27.30	1569	1010	41 38.62	121 29.29	1767
900	41 36.59	121 38.28	2097	1011	41 38.81	121 28.48	1703
901	41 36.65	121 37.41	2133	1101	41 38.01	121 36.97	2057
902	41 36.88	121 36.64	2255	1102	41 38.21	121 36.09	2017
903	41 36.84	121 35.53	2212	1103	41 38.40	121 35.33	2039
904	41 37.11	121 34.83	2298	1104	41 38.54	121 34.53	1981
905	41 37.22	121 34.07	2295	1105	41 38.60	121 33.37	1901
906	41 37.45	121 33.07	2127	1106	41 38.62	121 32.51	1871
907	41 37.55	121 31.96	2042	1107	41 38.82	121 31.61	1853
908	41 37.73	121 31.34	1993	1108	41 39.03	121 30.67	1828
909	41 37.80	121 30.49	1962	1109	41 39.27	121 30.05	1776

TABLE 3
SHOT-STATION DISTANCES AND AZIMUTHS,
AND THE RECORDER ATTENUATION SETTINGS

Definition of table entries:

Loc - Station location number.

Dist - Distance in kilometers between the shotpoint and station.

Azim - Azimuth from the shotpoint to the recording station.

Db - Recorder attenuation setting in decibels. Gain of station at zero db is approximately 104 db peaked at about 20 hz (see Berge and others, 1986).

Tape Grade - Tape grade code indicating any malfunction of the seismograph or data playback equipment.

- | | |
|----------------------------------------------------------------------|---------------------------------------|
| 0 - Good playback | 14 - Off frequency, tape speed off |
| 1 - Tape did not run | 15 - Calibration problems |
| 2 - Tape ran but no signal | 16 - Recorder stopped during record |
| 3 - Skipped record time | 17 - Bad time code |
| 4 - Fast forward; no signal | 18 - Tape speed way off; belt slipped |
| 5 - Rewound and erased | 19 - Turned on too early |
| 6 - Weak multiplexed signal; cannot read time code; low record level | 20 - In for repair; not deployed |
| 7 - Continuous calibration | 21 - Geophone disconnected or shorted |
| 8 - Noise, sinusoidal | 22 - Wrong unit number |
| 9 - Noise, spike | 23 - Wrong gain settings |
| 10 - Noise, WWVB cross feed | 24 - Late start |
| 11 - Noise, periodic ticks | 25 - Bad geophone test |
| 12 - Noise, random | 26 - One or more channels missing |
| 13 - Bad clock | 27 - Bad WWVB radio signal |
| | 28 - Unit damaged / vandalized |
| | 29 - Tape damaged / vandalized |

Unit - Recording instrument unit number for shot number 8101 only (the "Huddle test").

Table 3, continued.

Shot Number 7801 Shot Point 7801 Deployment 1
 Shot Time (Julian day, hr, min, sec): 325:09:59:59.737

Loc	Dist (km)	Azim (deg)	Tape		Loc	Dist (km)	Azim (deg)	Tape		Loc	Dist (km)	Azim (deg)	Tape	
.....	.....	.....	Db	Grade	.....	.....	.....	Db	Grade	.....	.....	.....	Db	Grade
101	0.06	19.4	54	0/9	123	36.94	50.5	6	0/12	164	24.44	77.4	6	0/12
102	1.25	12.0	54	0	125	39.17	51.3	2		165	25.32	71.3	6	0/12
103	2.42	26.8	54	0/9	126	40.00	51.6	6	0	166	25.45	66.3	6	0
104	3.59	31.7	54	0/12	127	41.41	48.2	13		167	25.83	63.6	24	0
105	4.96	32.8	54	0/12	128	42.69	44.1	6	11/15	168	27.06	60.4	6	0/9/12
106	6.11	41.3	54	0/12	130	53.99	46.2	6	0	169	28.14	58.9	24	0/12
107	7.06	44.8	9		131	56.85	45.2	6	12	171	25.12	47.7	2	
108	8.47	55.8	24	0	132	61.26	45.8	6	11	172	25.77	45.3	6	0/9/11
109	9.88	55.2	24	0	133	67.25	51.4	6	12	173	25.87	42.3	6	12
110	12.63	54.5	24	0	134	70.23	54.4	6	12/15	174	26.63	38.6	9	
112	18.73	49.6	24		135	74.74	57.3	2		175	26.80	33.9	6	0
113	20.26	47.8	24	0/11	136	80.14	55.8	6	9/11/17	176	28.22	29.9	1	
114	22.55	47.6	6	0/12	138	90.65	53.9	11/15		177	29.84	26.5	6	0
116	25.18	50.1	9/12/15		140	101.72	54.7	12/15		178	32.11	23.8	6	12
118	30.14	52.6	6	0	141	83.83	55.0	6	0/15	179	32.79	19.1	6	0
119	31.41	51.0	6	0	161	22.07	101.0	2		180	33.88	16.1	6	0/9
121	34.43	49.7	6/11/15		162	24.35	95.7	1						
122	35.85	49.5	6	0	163	24.51	85.2	1						

Shot Number 7802 Shot Point 7802 Deployment 1
 Shot Time (Julian day, hr, min, sec): 325:11:59:59.718

Loc	Dist (km)	Azim (deg)	Tape		Loc	Dist (km)	Azim (deg)	Tape		Loc	Dist (km)	Azim (deg)	Tape	
.....	.....	.....	Db	Grade	.....	.....	.....	Db	Grade	.....	.....	.....	Db	Grade
101	23.10	223.6	6	0/9	123	14.24	61.9	24	0/12	164	13.91	145.5	24	0
102	22.09	225.2	6	0	125	16.53	62.3	2		165	11.83	137.3	24	0
103	20.84	225.4	24	0	126	17.39	62.4	12		166	9.86	131.8	6	0
104	19.65	225.6	12		127	18.43	54.0	12		167	8.93	126.4	24	0
105	18.29	226.4	12		128	19.55	44.7	0/11/25		168	8.32	114.3	24	0/9
106	17.05	224.3	6	0	130	30.88	48.1	6	0	169	8.46	105.5	24	0/12
107	16.09	222.9	9/12		131	33.72	46.3	12		171	2.63	87.1	2	
108	14.99	216.6	24	0	132	38.14	47.2	6	0	172	2.73	60.3	32	0
109	13.62	215.1	24	0	133	44.42	55.5	6	0/12	173	2.77	32.3	32	0/6/12
110	11.02	210.8	24	0/12	134	47.68	59.7	12/15		174	4.07	9.8	32	0
112	4.93	200.0	25		135	52.52	63.3	6	0	175	5.56	349.6	24	0
113	3.31	196.5	42	0/11	136	57.82	60.7	6	6/9/15	176	7.88	346.5	1	
114	1.72	155.9	42	0/12	138	68.12	57.5	6	11/25	177	10.26	345.2	24	0
116	3.43	100.5	3		140	79.25	58.0	12		178	12.94	346.7	12	
118	8.13	79.2	3		141	61.42	59.3	6	0	179	15.11	340.0	6	0/12
119	8.97	70.6	24	0/9	161	21.76	164.8	2		180	17.05	337.6	6	0/9
121	11.68	62.1	6/18/22		162	20.91	156.7	1						
122	13.04	60.0	24	0	163	17.00	150.1	1						

Table 3, continued.

Shot Number 7803 Shot Point 7803 Deployment 1
 Shot Time (Julian day, hr, min, sec): 325:12:59:59.712

Loc	Dist (km)	Azim (deg)	Tape		Loc	Dist (km)	Azim (deg)	Tape		Loc	Dist (km)	Azim (deg)	Tape	
---	-----	-----	Db	Grade	---	-----	-----	Db	Grade	---	-----	-----	Db	Grade
101	39.97	231.7	6	0/9	123	3.16	244.9	24	0	164	20.92	201.2	6	0
102	39.06	232.8		12	125	0.87	244.8		2	165	18.31	203.9	6	0
103	37.83	233.2	6	0	126	0.02	232.4	42	0	166	16.71	208.9	6	0
104	36.66	233.5	6	0/12	127	2.82	349.5	24	0	167	15.70	211.7	6	0/12
105	35.35	234.2	6	0/12	128	6.07	344.1		11/25	168	13.91	214.4		12
106	34.02	233.5		12	130	14.67	31.1	6	0	169	12.62	215.2	6	0/12
107	33.01	233.1		13	131	17.68	30.5		11	171	15.05	238.3		2
108	31.58	230.5		12	132	21.85	35.1	6	0	172	14.67	242.8	6	0/11
109	30.16	230.5	6	0	133	27.23	51.1	6	0/12	173	15.07	247.7	6	0/12
110	27.41	230.3		12	134	30.31	58.1		12	174	15.27	254.7	6	0/9/12
112	21.31	233.5		25	135	35.12	63.7	6	0	175	16.63	261.1	6	0
113	19.85	235.6	6	0	136	40.43	59.9		6/12	176	17.26	268.7		1
114	17.59	236.8	6	0/12	138	50.81	55.8		11/25	177	18.13	275.9	6	0/12
116	14.86	234.3		3	140	61.93	56.7		12	178	18.93	283.9		15
118	9.90	228.8		3	141	44.06	58.1		12	179	21.48	286.6	6	0
119	8.62	233.9	24	0	161	30.65	198.6		2	180	23.22	289.4	6	0/9
121	5.72	243.2		6/18	162	28.19	194.8		1					
122	4.40	249.5	24	0	163	23.84	197.0		1					

Table 3, continued.

Shot Number 8101 Shot Point 8199 Deployment 2 ("Huddle Test")
 Shot Time (Julian day, hr, min, sec): 173:18:30:00.012

Unit	Loc	Dist (km)	Azim (deg)	Tape Db	Grade	Unit	Loc	Dist (km)	Azim (deg)	Tape Db	Grade	Unit	Loc	Dist (km)	Azim (deg)	Tape Db	Grade
1	93	0.15	15.9	42	0	56	94	0.15	15.9	15		100	93	0.15	15.9		17
3	95	0.15	15.9		17	58	91	0.15	15.9	42	0	101	93	0.15	15.9	42	0
10	92	0.15	15.9	42	0	60	91	0.15	15.9	1		103	91	0.15	15.9		1
12	95	0.15	15.9	42	0	62	92	0.15	15.9	42	0	104	92	0.15	15.9		9/17
13	92	0.15	15.9	42	0	63	92	0.15	15.9	42	0	105	92	0.15	15.9	42	0/9
14	94	0.15	15.9	42	0	64	92	0.15	15.9	42	0	106	91	0.15	15.9	42	0
15	91	0.15	15.9	42	0	65	93	0.15	15.9	25		107	95	0.15	15.9		17
17	91	0.15	15.9		1	66	94	0.15	15.9	42	0	108	95	0.15	15.9	42	0
18	93	0.15	15.9	42	0	69	94	0.15	15.9	42	0	110	92	0.15	15.9	42	0
19	94	0.15	15.9	42	0	70	94	0.15	15.9	13		112	93	0.15	15.9	42	0
22	93	0.15	15.9		1	71	91	0.15	15.9	15		113	93	0.15	15.9	42	0
23	95	0.15	15.9	42	0	72	94	0.15	15.9	17		115	94	0.15	15.9	24	0
24	91	0.15	15.9	42	0	73	95	0.15	15.9	42	0	118	92	0.15	15.9	42	0
25	91	0.15	15.9	42	0	74	93	0.15	15.9	42	0/15	119	94	0.15	15.9	42	0
26	91	0.15	15.9	42	0	75	93	0.15	15.9	42	0	120	95	0.15	15.9	24	0
28	95	0.15	15.9	42	0	76	93	0.15	15.9	42	0/17/30	121	94	0.15	15.9		20
30	92	0.15	15.9	42	0	77	94	0.15	15.9	17		122	94	0.15	15.9		20
31	95	0.15	15.9		15	78	95	0.15	15.9	42	0	124	92	0.15	15.9		18
32	91	0.15	15.9	42	0	79	93	0.15	15.9	42	0/17/30	125	91	0.15	15.9		17
34	92	0.15	15.9	42	0/30	82	95	0.15	15.9	42	0	128	95	0.15	15.9		17
35	93	0.15	15.9		1	83	95	0.15	15.9	42	0	129	95	0.15	15.9	42	0
36	91	0.15	15.9	42	0	85	91	0.15	15.9	1		130	91	0.15	15.9		1
38	91	0.15	15.9		1	87	93	0.15	15.9	42	0	131	95	0.15	15.9	42	0
39	94	0.15	15.9	42	0	88	95	0.15	15.9	15		132	94	0.15	15.9	42	0
40	93	0.15	15.9	42	0	89	93	0.15	15.9	42	0	133	93	0.15	15.9	42	0
43	93	0.15	15.9		13	90	91	0.15	15.9	1		134	94	0.15	15.9	42	0
44	91	0.15	15.9	42	0	92	95	0.15	15.9	15		136	95	0.15	15.9	42	0
45	95	0.15	15.9	42	0	93	94	0.15	15.9	42	0	137	92	0.15	15.9	42	0
48	94	0.15	15.9	42	0	94	91	0.15	15.9	42	0	139	94	0.15	15.9	42	0
49	92	0.15	15.9	42	0	96	94	0.15	15.9	0/23		142	92	0.15	15.9	42	0/30
51	92	0.15	15.9	42	0	97	92	0.15	15.9	42	0	143	93	0.15	15.9	42	0
52	92	0.15	15.9	42	0	98	93	0.15	15.9	42	0	145	92	0.15	15.9	42	0
53	94	0.15	15.9	42	0	99	95	0.15	15.9	42	0	146	91	0.15	15.9	42	0
55	92	0.15	15.9	42	0												

Table 3, continued.

Shot Number 8102 Shot Point 8112 Deployment 3
 Shot Time (Julian day, hr, min, sec): 176:07:00:00.025

Loc	Dist (km)	Azim (deg)	Tape Db	Grade	Loc	Dist (km)	Azim (deg)	Tape Db	Grade	Loc	Dist (km)	Azim (deg)	Tape Db	Grade
12	0.00	180.0	94	0	134	15.48	310.0	24	0	169	68.98	311.7	24	0
101	49.78	311.2	6	0/12	135	17.47	306.3	24	0	170	66.93	311.9	24	0
102	47.93	310.8	6	0	136	19.08	308.0		1	171	65.37	312.2	24	0
103	46.79	310.5	6	0	137	19.97	311.3	24	0	172	63.86	311.6	24	0
104	45.70	312.8	6	0	138	21.24	313.5	24	0	173	61.88	311.0	24	0
105	44.51	313.6	6	0	139	22.11	317.2	24	0	174	60.57	310.6	6	0
106	43.46	312.5	6	0	140	24.39	311.8	24	0	175	58.55	311.7	6	0
107	42.47	312.5	6	0	141	78.09	312.0		1	176	56.86	313.3	6	0
108	41.05	312.1	6	0	142	79.47	311.5	6	0	177	54.70	312.9	6	0
109	39.43	312.7	6	0	143	80.27	310.8	6	0	178	53.35	313.6	6	0
110	37.88	312.2	6	0	145	82.03	310.1	6	0	179	51.83	312.7		15
111	36.66	310.6	6	0	146	83.51	311.0		1	180	50.57	312.3	24	0
112	35.40	311.7	6	0	147	84.76	311.1	6	0	181	104.11	314.3		15
113	34.71	313.2	6	0	148	85.59	311.9	6	0	182	105.35	314.7	6	0
114	33.28	312.8		1	149	87.03	312.0	6	0	183	106.90	315.0		17
115	32.27	313.7	6	0	150	88.63	312.1	6	0/24	184	108.04	315.9		1
116	31.15	312.5	6	0	151	89.98	312.4		11	185	110.66	315.5	6	0
117	30.21	311.7	6	0	152	91.18	313.1		3	186	111.65	315.4	6	0
118	28.54	309.3		1	153	92.27	313.7	6	0	187	112.82	315.2	6	0
119	27.64	306.7		1	154	94.29	312.3		1	188	114.63	314.8	6	0
120	25.42	312.6		9	155	94.92	313.2	6	0	189	116.03	314.5	6	0
122	1.34	245.7	42	0	156	96.26	313.6	6	0	190	117.24	314.7	6	0
123	2.53	289.0	42	0	157	97.29	314.2	6	0	191	118.02	314.3	6	0
124	3.22	290.8	42	0/30	158	98.93	313.9	6	0	192	118.71	314.0	24	0
125	3.34	296.2	42	0/9/30	159	100.90	313.7		15	193	119.98	314.2	24	0
126	4.05	311.9	42	0/30	160	103.18	313.7		9	194	120.52	314.4	24	0
127	4.80	311.9	42	0	161	77.61	312.1		11	195	121.04	314.9		1
128	5.78	311.8	42	0/30	162	77.21	312.1	6	0	196	122.05	314.6	24	0
129	7.50	310.8	42	0	163	75.11	312.3	6	0	197	123.02	314.6	24	0
130	8.65	306.0	42	0	164	74.28	312.4	6	0	198	124.32	314.1	6	0
131	10.91	307.9	42	0	165	73.53	312.2	6	0	199	124.89	314.4	6	0
132	12.58	316.8	42	0	166	72.68	311.7	6	0	200	125.48	314.6	24	0
133	14.41	313.7	42	0	167	71.82	311.8	6	0					

Table 3, continued.

Shot Number 8103 Shot Point 8105 Deployment 3
 Shot Time (Julian day, hr, min, sec): 176:07:15:00.020

Loc	Dist (km)	Azim (deg)	Tape Db Grade	Loc	Dist (km)	Azim (deg)	Tape Db Grade	Loc	Dist (km)	Azim (deg)	Tape Db Grade
12	121.63	112.8	6 0	134	106.93	110.4	6 0	169	60.70	91.3	24 0/11
101	76.17	100.9	6 0/30	135	104.72	110.6	6 0	170	62.40	92.4	24 0/12
102	77.60	101.8	6 0	136	103.33	110.0	1	171	63.83	93.0	6 0
103	78.49	102.4	6 0	137	102.86	109.3	6 0	172	64.63	94.3	3
104	80.15	101.6	6 0/30	138	102.00	108.6	6 0	173	65.83	95.8	24 0
105	81.49	101.7	6 0	139	101.85	107.7	6 0/22	174	66.65	96.8	6 0
106	81.97	102.6	6 0	140	98.85	108.2	6 0/30	175	68.97	96.9	6 0
107	82.80	102.9	6 0	141	54.31	84.7	3	176	71.29	96.7	22
108	83.92	103.6	25	142	52.86	84.2	6 0	177	72.81	97.9	6 0/12
109	85.53	103.8	6 0	143	51.59	84.2	6 0	178	74.27	98.1	6 0
110	86.74	104.5	6 0	145	49.64	83.5	6 0	179	75.08	99.3	6 0/6
111	87.40	105.5	6 0	146	49.67	81.2	1	180	75.99	100.0	6 0
112	88.83	105.4	6 0	147	48.91	80.0	6 0	181	45.24	55.8	11
113	89.85	105.1	6 0	148	49.35	78.4	25	182	45.76	54.1	6 0
114	91.02	105.7	1	149	48.69	76.8	6 0	183	46.07	52.0	6 0
115	92.14	105.7	6 0	150	47.82	75.3	6 0	184	47.69	50.4	3
116	92.85	106.4	6 0	151	47.50	73.6	12/15	185	46.88	47.3	6 0
117	93.51	106.8	6 0	152	47.83	71.7	6 0	186	46.47	46.1	6 0
118	94.58	107.9	1	153	48.29	69.9	6 0	187	46.25	44.6	25
119	95.02	108.8	1	154	45.35	68.9	1	188	45.46	42.3	6 0
120	98.05	107.8	11	155	46.31	67.5	6 0	189	44.82	40.5	6 0
122	120.73	113.3	6 0	156	46.41	65.6	6 0	190	45.37	39.0	6 0
123	119.12	112.9	6 0	157	46.99	64.0	6 0	191	44.78	37.9	6 0
124	118.43	112.9	6 0	158	45.96	62.3	6 0	192	44.19	37.0	15
125	118.30	112.7	6 0/9	159	45.07	60.0	6 0	193	44.70	35.4	6 0
126	117.81	112.2	6 0	160	44.52	57.2	6 0	194	45.30	34.8	24 0
127	117.10	112.0	6 0	161	54.78	85.0	15	195	46.34	34.4	3
128	116.18	111.9	6 0/30	162	55.00	85.3	6 0/11	196	45.91	33.0	24 0
129	114.51	111.7	6 0/30	163	56.69	86.7	6 0	197	46.05	31.8	24 0
130	113.22	111.8	6 0	164	57.38	87.1	6 0/8	198	45.39	29.9	6 0
131	111.13	111.4	6 0	165	57.71	87.9	6 0	199	46.10	29.4	6 0
132	110.23	110.2	6 0	166	57.93	88.9	6 0/8	200	46.77	28.9	26
133	108.26	110.1	6 0/30	167	58.64	89.4	6 0				

Table 3, continued.

Shot Number 8104 Shot Point 8106 Deployment 3
 Shot Time (Julian day, hr, min, sec): 176:07:30:00.011

Loc	Dist (km)	Azim (deg)	Tape		Loc	Dist (km)	Azim (deg)	Tape		Loc	Dist (km)	Azim (deg)	Tape	
....
12	125.44	134.6	6	0	134	110.05	135.3	24	0	169	56.78	138.1	24	0
101	75.92	136.8	6	0	135	108.23	136.0	24	0	170	58.79	137.7	24	0
102	77.80	137.0	6	0	136	106.55	135.8		1	171	60.31	137.3	24	0
103	78.97	137.1	6	0	137	105.54	135.3	6	0	172	61.88	137.7	24	0
104	79.89	135.7	6	0	138	104.23	134.9	6	0	173	63.93	138.1	24	0
105	80.98	135.2	6	0	139	103.37	134.1	6	0	174	65.29	138.4	24	0
106	82.08	135.7	6	0	140	101.12	135.3	6	0	175	67.16	137.2	6	0
107	83.07	135.7	6	0	141	47.69	139.0		1	176	68.72	135.7		3
108	84.50	135.9	6	0	142	46.43	140.0	24	0	177	70.90	136.0	24	0
109	86.09	135.5	6	0	143	45.72	141.3	24	0	178	72.21	135.4	6	0
110	87.65	135.7	6	0	145	44.21	143.1	24	0	179	73.78	136.0	6	0
111	88.97	136.3	6	0	146	42.47	141.7		1	180	75.05	136.2	6	0
112	90.15	135.8	6	0	147	41.22	141.9	24	0	181	21.37	136.5		21
113	90.78	135.2	6	0	148	40.20	140.5	24	0	182	20.11	134.5	42	0
114	92.22	135.3		1	149	38.74	140.5	24	0	183	18.57	132.8	42	0
115	93.21	135.0	6	0	150	37.16	140.8	24	0	184	17.60	126.9		3
116	94.36	135.3	6	0	151	35.74	140.3	24	0	185	14.91	127.9	24	0/26
117	95.33	135.6	6	0	152	34.42	138.8	24	0	186	13.88	128.9	42	0
118	97.11	136.2		1	153	33.25	137.1	24	0	187	12.70	129.3	42	0
119	98.20	136.9		1	154	31.49	141.5		1	188	10.83	132.7	42	0
120	100.07	135.2	6	0/12	155	30.68	139.2	24	0	189	9.42	136.8	42	0
122	124.98	135.2	6	0	156	29.28	138.1	24	0	190	8.21	134.0	42	0
123	123.18	135.1	6	0	157	28.19	136.2	42	0	191	7.45	139.2	42	0
124	122.52	135.2	6	0	158	26.58	137.4	42	0	192	6.87	145.2	42	0/12
125	122.29	135.1	6	0/9	159	24.63	138.5	42	0	193	5.55	144.3	42	0
126	121.40	134.7	6	0	160	22.36	138.8	42	0	194	4.94	139.5	42	0/12
127	120.65	134.7	6	0	161	48.14	138.7	6	0/11	195	4.44	127.5		3
128	119.68	134.8	6	0	162	48.55	138.7	6	0	196	3.39	136.0	62	0
129	117.97	134.9	6	0	163	50.61	138.1	24	0	197	2.43	138.1	62	0
130	116.92	135.3	6	0	164	51.41	137.8	24	0	198	1.61	179.9	62	0
131	114.64	135.3	6	0	165	52.19	138.1	24	0	199	0.79	180.2	82	0/15
132	112.88	134.4	6	0	166	53.11	138.6	24	0	200	0.05	275.8	82	0/15
133	111.05	134.8	6	0	167	53.94	138.4	24	0					

Table 3, continued.

Shot Number 8105 Shot Point 8109 Deployment 3
 Shot Time (Julian day, hr, min, sec): 177:07:00:00.021

Loc	Dist (km)	Azim (deg)	Tape Db Grade	Loc	Dist (km)	Azim (deg)	Tape Db Grade	Loc	Dist (km)	Azim (deg)	Tape Db Grade
12	78.07	132.0	6 0	134	62.61	132.5	6 0	169	9.10	134.1	42 0
101	28.31	133.4	17	135	60.72	133.6	6 0	170	11.14	132.7	42 0
102	30.17	133.9	6 0	136	59.06	133.3	1	171	12.70	131.1	42 0
103	31.33	134.3	6 0	137	58.10	132.3	6 0	172	14.22	133.7	42 0
104	32.38	130.9	6 0	138	56.84	131.5	6 0	173	16.24	135.8	42 0
105	33.59	129.9	6 0	139	56.08	130.0	6 0	174	17.59	137.0	42 0
106	34.61	131.4	17/18	140	53.68	132.1	6 0	175	19.53	133.0	24 0
107	35.60	131.5	6 0	141	0.05	248.2	42 0	176	21.26	128.6	1
108	37.02	131.9	6 0	142	1.58	283.3	42 0	177	23.39	130.0	1
109	38.64	131.3	6 0	143	2.81	275.3	42 0	178	24.77	128.7	24 0
110	40.18	131.9	6 0	145	4.85	277.4	42 0	179	26.25	130.7	12
111	41.44	133.3	6 0	146	5.68	297.6	42 0	180	27.50	131.4	24 0
112	42.67	132.2	6 0	147	6.90	300.5	42 0	181	26.37	320.9	2
113	43.37	131.1	6 0	148	7.60	310.6	42 0	182	27.70	322.1	24 0
114	44.79	131.4	6 0	149	9.04	312.3	42 0	183	29.31	322.8	24 0
115	45.82	130.8	6 0	150	10.64	312.4	42 0	184	30.71	325.8	24 0
116	46.92	131.7	1	151	12.01	314.7	42 0	185	33.19	323.9	24 0
117	47.86	132.2	6 0	152	13.29	319.2	42 0	186	34.12	323.0	24 0
118	49.58	133.6	6 0	153	14.51	323.0	42 0	187	35.25	322.4	6 0
119	50.63	134.9	6 0	154	16.32	313.9	42 0	188	36.96	320.7	24 0
120	52.65	131.7	12	155	17.03	318.4	42 0	189	38.29	319.4	24 0
122	77.54	132.9	6 0	156	18.44	320.2	12	190	39.54	319.9	24 0
123	75.75	132.8	6 0	157	19.60	322.8	42 0	191	40.26	318.9	24 0
124	75.09	132.9	6 0	158	21.15	320.8	42 0	192	40.89	317.9	24 0
125	74.86	132.7	6 0/9	159	23.08	319.4	24 0	193	42.18	318.2	24 0
126	74.02	132.0	3	160	25.35	319.0	24 0	194	42.77	318.8	24 0
127	73.27	132.0	6 0	161	0.48	113.4	1	195	43.37	320.1	1
128	72.29	132.0	6 0	162	0.86	127.5	1	196	44.32	319.1	24 0
129	70.57	132.1	42 0	163	2.99	124.6	42 0	197	45.28	319.0	24 0
130	69.47	132.8	25	164	3.82	124.0	42 0	198	46.51	317.6	24 0
131	67.20	132.7	1	165	4.54	129.1	42 0	199	47.12	318.3	24 0
132	65.54	131.1	6 0	166	5.41	135.7	42 0	200	47.74	318.9	24 0
133	63.66	131.6	6 0	167	6.25	134.2	42 0				

Table 3, continued.

Shot Number 8106 Shot Point 8105 Deployment 4
 Shot Time (Julian day, hr, min, sec): 181:07:30:00.020

Loc	Dist (km)	Azim (deg)	Tape Db Grade	Loc	Dist (km)	Azim (deg)	Tape Db Grade	Loc	Dist (km)	Azim (deg)	Tape Db Grade
201	127.59	93.7	6 0	234	177.95	90.7	6 0	268	111.18	93.5	6 0
202	129.50	93.2	17/18	235	179.90	90.4	6 0/12	269	111.72	93.7	6 0
203	130.98	92.7	6 0	236	180.71	90.3	6 0/26	270	112.37	94.1	6 0
204	132.67	92.8	6 0	237	181.51	90.3	6 0/12	272	113.89	94.9	6 0
205	134.58	92.9	6 0	238	182.30	90.2	6 0/12	273	115.95	94.7	6 0
206	136.18	92.9	6 0	239	183.37	90.2	6 0	274	116.79	95.1	6 0
207	137.68	92.5	6 0	240	184.14	90.1	6 0/12	275	118.32	95.2	6 0
208	139.40	92.3	6 0	241	78.13	92.9	6 0	276	120.16	95.0	6 0
209	141.16	92.2	6 0	242	79.96	93.0	6 0/15	277	121.89	94.9	6 0
210	143.17	92.1	6 0	243	81.49	93.3	6 0	278	123.26	94.8	6 0
211	145.57	91.8	6 0	244	83.27	93.7	6 0	279	124.99	94.4	24 0
212	147.05	91.7	6 0	245	84.69	94.1	6 0	280	126.32	94.1	6 0
213	148.50	91.4	6 0	246	86.34	94.3	6 0	281	54.78	85.0	6 0
214	149.73	90.8	6 0	247	88.05	94.3	6 0	282	55.22	85.2	6 0
215	151.29	90.3	6 0	248	89.45	94.5	9/17	283	55.77	85.2	6 0
216	152.90	89.9	6 0	249	91.22	94.7	6 0	284	56.43	85.5	6 0
217	154.65	89.5	6 0	250	92.74	94.9	11	285	57.04	85.3	6 0
218	156.56	89.4	6 0	251	94.40	94.8	6 0	286	57.47	84.9	6 0
219	158.30	89.6	12	252	95.63	94.4	6 0	287	58.41	84.8	6 0
220	160.09	89.7	12	253	97.12	94.0	6 0	288	59.50	85.4	6 0
221	161.76	89.5	6 0	254	98.67	93.6	6 0	289	60.09	86.0	6 0
222	163.42	89.6	6 0	255	100.33	93.4	6 0	290	60.95	86.4	6 0
223	164.61	89.5	6 0	256	102.07	93.5	6 0	291	62.51	85.7	6 0
224	166.24	89.4	6 0	257	102.90	93.4	6 0	292	64.12	87.0	24 0
225	167.60	89.8	25	258	103.69	93.3	6 0	293	65.84	88.2	6 0
226	168.71	90.1	12	259	104.41	93.1	6 0	294	67.46	86.5	6 0
227	169.83	90.4	6 0	261	105.91	93.0	6 0	295	68.12	88.0	6 0
228	170.87	90.5	6 0/6	262	106.73	92.9	6 0	296	70.63	87.2	6 0
229	171.82	90.6	6	263	107.44	92.7	6 0	297	71.34	88.0	6 0
230	173.15	90.7	6	264	108.11	92.6	6 0	298	71.95	92.2	6 0
231	174.99	90.7	6 0	265	108.89	92.7	6 0	299	74.05	93.1	6 0
232	176.05	90.7	6	266	109.50	92.9	6 0	300	76.22	92.7	6 0
233	176.90	90.9	24 0	267	110.36	93.1	6 0				

Table 3, continued.

Shot Number 8107 Shot Point 8114 Deployment 4
 Shot Time (Julian day, hr, min, sec): 181:07:45:00.015

Loc	Dist (km)	Azim (deg)	Tape		Loc	Dist (km)	Azim (deg)	Tape		Loc	Dist (km)	Azim (deg)	Tape	
---	-----	-----	---	-----	-----	---	-----	-----
201	71.58	100.8	42	0	234	120.96	93.5	6	0	268	55.24	102.6	6	0
202	73.36	99.8		6	235	122.87	93.0	24	0	269	55.83	102.8	6	0
203	74.71	98.8		6	236	123.67	92.9	6	0/26	270	56.60	103.6	6	0
204	76.41	98.8	24	0	237	124.47	92.8	6	0/6	272	58.38	104.9	24	0
205	78.34	98.8	24	0	238	125.25	92.7	6	0	273	60.35	104.2	6	0
206	79.93	98.6	6	12	239	126.31	92.6		0/6	274	61.31	104.8	24	0
207	81.13	97.9	6	12	240	127.07	92.6	6	0	275	62.85	104.8	6	0
208	82.81	97.5	6	6	241	22.64	113.9	24	0	276	64.58	104.0	6	0
209	84.52	97.1	6	0	242	24.42	112.7		3	277	66.29	103.7	6	0
210	86.51	96.9	6	12	243	26.22	112.4	24	0	278	67.60	103.2	24	0
211	88.84	96.3	6	6	244	28.05	112.1	24	0	279	69.20	102.4	24	0
212	90.29	96.1	6	8	245	29.61	112.5	24	0	280	70.44	101.8	6	0/12
213	91.69	95.6	6	0	246	31.27	112.0	24	0	281	2.74	261.1	82	0
214	92.81	94.5	6	0	247	32.91	111.1		25	282	2.34	255.4	62	0/6
215	94.30	93.7	6	0	248	34.34	110.9		17	283	1.81	250.7	62	0/9
216	95.85	93.0	6	0	249	36.15	110.7	6	0	284	1.30	232.8	62	0/8
217	97.54	92.2	6	0	250	37.69	110.5	24	0/31	285	0.67	220.2	62	0
218	99.45	92.1		17	251	39.22	109.5	6	0	286	0.12	200.6	42	0
219	101.20	92.3	6	0	252	40.28	108.2	6	0	287	0.90	86.6	42	0
220	103.01	92.5	6	0	253	41.59	106.9	6	0	288	2.07	102.3	42	0
221	104.65	92.1	6	0	254	42.94	105.4	6	0	289	2.84	110.4	42	0
222	106.30	92.1	6	0	255	44.50	104.5	6	0	290	3.79	110.9	42	0
223	107.49	92.1	6	0	256	46.25	104.4	6	0	291	5.08	96.0	42	0
224	109.11	91.9	6	0	257	47.02	103.9	6	0	292	6.98	105.2	42	0
225	110.51	92.3	6	0	258	47.78	103.5	6	0	293	9.06	110.1	42	0
226	111.66	92.8	6	0	259	48.44	103.1	6	0	294	10.11	96.3	42	0
227	112.82	93.3	6	0	261	49.89	102.5	6	0	295	11.14	104.5	42	0
228	113.87	93.4	6	0	262	50.68	102.2	6	0	296	13.37	97.7	42	0
229	114.83	93.5	6	0	263	51.30	101.5	6	0	297	14.27	101.1	42	0
230	116.18	93.7	6	0	264	51.94	101.2	6	0	298	16.65	118.9	42	0
231	118.01	93.5	6	0	265	52.75	101.3	6	0	299	19.03	119.2	24	0
232	119.07	93.5	6	0	266	53.42	101.7	6	0	300	20.78	115.2	24	0
233	119.95	93.8	24	0	267	54.33	102.0	6	0					

Table 3, continued.

Shot Number 8108 Shot Point 8102 Deployment 4
 Shot Time (Julian day, hr, min, sec): 181:08:00:00.033

Loc	Dist (km)	Azim (deg)	Tape Db Grade	Loc	Dist (km)	Azim (deg)	Tape Db Grade	Loc	Dist (km)	Azim (deg)	Tape Db Grade
201	168.47	84.3	6 0	234	219.52	84.0	24 0	268	152.34	83.1	6 0
202	170.54	84.0	6 0	235	221.54	83.9	6 0	269	152.81	83.3	6 0
203	172.17	83.7	6 0	236	222.37	83.8	6 0/26	270	153.30	83.6	6 0
204	173.83	83.8	24 0	237	223.20	83.8	6 0	272	154.50	84.3	24 0
205	175.67	84.0	6 0	238	224.00	83.8	6 0	273	156.60	84.3	6 0
206	177.27	84.1	6 0	239	225.09	83.7	6 0	274	157.29	84.7	6 0
207	178.88	83.9	6 0	240	225.86	83.8	6 0	275	158.75	84.9	6 0
208	180.64	83.8	6 0	241	119.91	79.9	6 0	276	160.66	84.8	42 0
209	182.45	83.8	6 0	242	121.64	80.1	17	277	162.38	84.9	6 0
210	184.46	83.8	6 0	243	123.25	80.5	6 0	278	163.80	84.8	6 0
211	186.96	83.7	6 0	244	124.89	80.9	6 0	279	165.63	84.7	42 0/12
212	188.45	83.7	6 0	245	126.13	81.4	6 0	280	167.04	84.5	24 0/12
213	189.98	83.5	24 0	246	127.68	81.6	6 0	281	99.19	72.5	6 0
214	191.43	83.1	6 0	247	129.35	81.8	6 0	282	99.56	72.7	6 0
215	193.13	82.8	6 0	248	130.65	82.1	9/17/22	283	100.09	72.8	6 0
216	194.88	82.6	6 0	249	132.31	82.4	6 0	284	100.68	73.0	6 0
217	196.76	82.3	6 0	250	133.73	82.7	6 0/12	285	101.33	72.9	6 0
218	198.68	82.3	6 0	251	135.41	82.7	6 0	286	101.82	72.8	6 0
219	200.35	82.5	25	252	136.74	82.6	6 0	287	102.76	72.9	6 0
220	202.09	82.7	6 0	253	138.33	82.4	6 0	288	103.70	73.3	6 0
221	203.82	82.5	6 0	254	140.00	82.3	6 0	289	104.15	73.7	6 0
222	205.44	82.6	6 0	255	141.70	82.2	6 0	290	104.90	74.0	6 0
223	206.64	82.7	6 0	256	143.37	82.5	6 0	291	106.57	73.8	6 0
224	208.29	82.6	6 0	257	144.23	82.4	6 0	292	107.85	74.7	6 0
225	209.54	82.9	6 0/11	258	145.05	82.4	6 0	293	109.24	75.6	6 0
226	210.52	83.3	6 0	259	145.79	82.4	6 0	294	111.23	74.8	6 0
227	211.52	83.6	6 0	261	147.33	82.4	6 0	295	111.52	75.7	6 0
228	212.53	83.7	6 0	262	148.15	82.4	6 0	296	114.16	75.6	6 0
229	213.45	83.7	6 0	263	148.95	82.3	6 0	297	114.65	76.1	6 0
230	214.72	83.9	6 0	264	149.63	82.3	6 0	298	114.09	78.8	6 0
231	216.57	83.9	6 0	265	150.36	82.4	6 0	299	115.87	79.6	6 0
232	217.62	83.9	6 0	266	150.88	82.6	6 0	300	118.10	79.5	6 0
233	218.38	84.2	24 0/12	267	151.65	82.8	6 0				

Table 3, continued.

Shot Number 8109 Shot Point 8113 Deployment 4
 Shot Time (Julian day, hr, min, sec): 182:06:59:59.022

Loc	Dist (km)	Azim (deg)	Tape		Loc	Dist (km)	Azim (deg)	Tape		Loc	Dist (km)	Azim (deg)	Tape	
...	.....	.....	Db	Grade	...	.....	.....	Db	Grade	...	.....	.....	Db	Grade
201	57.65	262.3	6	0	234	6.50	255.7	42	0	268	73.78	265.1	6	0
202	55.55	263.0	6	0	235	4.41	259.0	42	0	269	73.31	264.7	6	0
203	53.90	263.9	24	0	236	3.57	259.9	42	0/26	270	72.81	264.0	6	0
204	52.24	263.5	24	0	237	2.74	260.8		3	272	71.66	262.5	24	0
205	50.41	262.8	24	0	238	1.92	262.0	42	0	273	69.56	262.5	6	0
206	48.81	262.6	24	0	239	0.83	267.8	42	0	274	68.92	261.7	24	0
207	47.18	263.3	24	0	240	0.07	286.6	94	0	275	67.49	261.2	6	0
208	45.40	263.4	6	0	241	106.49	268.1	6	0	276	65.57	261.3	6	0
209	43.60	263.6	6	0	242	104.69	268.0		1	277	63.87	261.0		10/17
210	41.58	263.4	24	0	243	103.00	267.6	6	0/9	278	62.44	261.0	6	8
211	39.07	264.1	6	0	244	101.29	267.3	6	0	279	60.57	261.3	24	8
212	37.57	264.1	6	0/21	245	99.97	266.8	6	0	280	59.13	261.6	6	0
213	36.04	264.9	24	0/17	246	98.37	266.5	6	0	281	129.82	272.3	6	0
214	34.64	267.4	24	0	247	96.68	266.4		6	282	129.37	272.3		3
215	33.01	269.3	24	0	248	95.35	266.1	6	0	283	128.82	272.3	62	0
216	31.38	271.3	24	0	249	93.66	265.7	6	0	284	128.14	272.2	6	0
217	29.68	273.7	24	0	250	92.21	265.3	6	0/10	285	127.55	272.3	6	0
218	27.77	274.2	24	0	251	90.54	265.3	6	0	286	127.17	272.5		3
219	26.01	273.7	24	0	252	89.22	265.6	6	0	287	126.25	272.6	6	0
220	24.19	273.0		29	253	87.64	265.8	6	0	288	125.11	272.4	6	0
221	22.56	274.8	42	0	254	86.00	266.2	6	0	289	124.45	272.2	6	0
222	20.90	274.8	24	0	255	84.30	266.3	6	0	290	123.56	272.0	6	0
223	19.71	275.3	24	0	256	82.61	266.0	6	0/9	291	122.08	272.4	24	0
224	18.12	276.8		17	257	81.75	266.1	6	0	292	120.37	271.8	6	0/11
225	16.67	274.0	24	0	258	80.94	266.2	6	0	293	118.57	271.2	6	0
226	15.53	270.6	24	0	259	80.20	266.2		17	294	117.08	272.2	6	0
227	14.45	266.8		17	261	78.88	266.3	6	0	295	116.31	271.4		6
228	13.43	265.5	24	0	262	78.05	266.3	6	0	296	113.87	272.0	6	0
229	12.50	264.2	24	0	263	77.27	266.7	6	0	297	113.10	271.5	6	0
230	11.25	261.1	42	0	264	76.60	266.7	6	0	298	112.56	268.8	6	0
231	9.40	260.2		1	265	75.84	266.5	6	0	299	110.57	268.2	6	0
232	8.36	258.9	42	0	266	75.29	266.1	6	0	300	108.36	268.3	6	0
233	7.75	252.1	42	0	267	74.50	265.7	6	0					

Table 3, continued.

Shot Number 8110 Shot Point 8111 Deployment 4
 Shot Time (Julian day, hr, min, sec): 182:07:14:59.025

Loc	Dist (km)	Azim (deg)	Tape		Loc	Dist (km)	Azim (deg)	Tape		Loc	Dist (km)	Azim (deg)	Tape	
...	.....	.....	Db	Grade	...	.....	.....	Db	Grade	...	.....	.....	Db	Grade
201	20.34	99.2	6	21	234	70.96	87.7	24	0/12	268	4.12	116.5	42	0
202	22.19	95.9	24	0	235	72.95	87.1	24	0/12	269	4.76	118.1	42	0
203	23.65	93.1	24	0	236	73.78	87.0	42	0/12/26	270	5.70	122.8	42	0
204	25.35	93.3	24	0	237	74.60	86.9		3	272	7.85	128.2	42	0
205	27.26	93.9	24	0	238	75.40	86.8	6	0	273	9.48	119.4	42	0
206	28.87	93.7	24	0	239	76.49	86.7	6	0	274	10.58	121.5	42	0
207	30.37	92.0	24	0	240	77.26	86.7	24	0	275	12.05	119.1	42	0
208	32.10	91.3	24	0	241	29.56	271.9	24	0	276	13.58	113.8	42	0
209	33.88	90.6	24	0	242	27.74	271.5		1	277	15.21	111.5	24	0
210	35.90	90.4	24	0	243	26.01	270.4	24	0	278	16.44	108.9	24	0
211	38.34	89.4	24	0	244	24.26	269.1	24	0	279	17.97	105.1	42	0/12
212	39.83	89.1	24	6	245	22.92	267.1	24	0	280	19.20	102.7	24	0
213	41.32	88.3	24	0	246	21.32	265.8	24	0	281	53.83	280.4	6	0
214	42.69	86.1	24	0	247	19.62	265.1		6	282	53.36	280.3		3
215	44.36	84.7	24	0	248	18.30	263.4	24	0	283	52.81	280.4	6	0
216	46.10	83.5	24	0	249	16.65	261.0	42	0	284	52.12	280.4	6	0
217	47.98	82.4	24	0	250	15.26	258.5	42	0	285	51.58	280.8	6	0
218	49.90	82.5	6	0	251	13.59	257.7	42	0	286	51.27	281.3	6	0
219	51.58	83.2	6	0	252	12.23	258.5	42	0	287	50.38	281.7	6	0
220	53.33	83.8	6	0	253	10.62	259.7	42	0	288	49.18	281.4	24	0
221	55.06	83.4	6	0	254	8.93	262.1	24	0	289	48.45	280.9	24	0
222	56.69	83.7	6	0	255	7.22	262.2	42	0/12	290	47.51	280.7	6	0
223	57.89	83.8	6	0/9	256	5.58	256.6	42	0	291	46.19	282.0	24	0
224	59.54	83.6	6	0	257	4.71	256.6	42	0/12	292	44.29	280.9		3
225	60.81	84.7	6	0/9	258	3.90	255.6	42	0	293	42.32	279.6		3
226	61.83	85.7	6	0	259	3.15	255.4	42	0	294	41.19	282.7	24	0
227	62.87	86.7	6	0/12	261	1.63	248.8	42	0	295	40.14	280.6	24	0
228	63.89	86.9	24	0	262	0.89	231.8	42	0	296	37.91	282.8	24	0
229	64.83	87.2	6	0	263	0.06	127.6	42	0	297	36.98	281.6	24	0
230	66.14	87.6	24	0	264	0.72	84.6	42	0	298	35.73	273.4	24	0
231	67.99	87.6		1	265	1.50	97.0	42	0	299	33.64	271.5	24	0
232	69.05	87.6	24	0/12	266	2.18	107.8	42	0	300	31.47	272.4	24	0
233	69.86	88.3	24	0/12	267	3.12	111.2	42	0					

Table 3, continued.

Shot Number 8111 Shot Point 8102 Deployment 5
 Shot Time (Julian day, hr, min, sec): 190:07:00:00.015

Loc	Dist (km)	Azim (deg)	Tape		Loc	Dist (km)	Azim (deg)	Tape		Loc	Dist (km)	Azim (deg)	Tape	
...
301	34.70	56.4	24	0	334	43.95	58.8	24	0	368	92.66	72.3	6	0
302	32.96	55.4		17	335	42.85	59.2	42	0	369	91.50	72.5	6	0
303	31.38	54.1	24	0	336	42.22	58.0	42	0	370	90.71	71.8	6	0
304	28.82	52.7	24	0	337	41.27	56.7		3	371	89.35	71.5	24	0
305	27.62	50.8	24	0	338	40.19	55.1	42	0	372	88.49	72.1	6	0
306	27.49	47.4	24	0	339	38.40	54.9	24	0	373	87.11	71.8	6	0
307	28.07	43.9	24	0	340	36.28	55.8	24	0	374	85.45	72.1	6	0
308	27.44	40.9		3	341	11.15	40.3	42	0	375	84.46	71.3	6	0
309	26.53	40.0	24	0	342	9.92	39.2	42	0	376	83.38	70.9	6	0/12
310	25.64	38.3		3	343	8.24	37.5	42	0	377	82.14	70.4	6	0
311	25.09	36.9	42	0	344	6.45	26.8	42	0	378	80.76	70.1	6	0
312	24.47	34.5	24	82	345	5.46	29.1	42	0	381	57.34	60.5	6	0
313	23.15	39.6	24	0	346	4.47	29.6	42	0	382	58.48	61.8	24	0
314	21.33	38.9	42	0	347	3.43	20.7	42	0	383	58.48	63.1		9
315	19.83	36.6	42	0	348	3.36	9.4	42	0	384	59.14	64.1	24	0
316	18.30	34.2	42	0	349	2.64	356.9	42	0	385	59.72	65.1	6	0
317	16.66	32.7	42	0	350	1.78	359.2	62	0	386	60.35	66.4	6	0
318	15.65	35.4	42	0	351	0.63	338.2	62	0	387	60.59	68.7	6	0/9
319	14.44	41.7		1	352	0.09	286.1	82	0	388	63.39	67.4	6	0
320	12.97	46.5	42	0	353	4.07	245.5	42	0	389	64.38	68.1	6	0
321	47.31	58.0	24	0	354	7.81	245.8	42	0	390	65.08	69.1	6	0
322	48.13	58.6	24	0	355	12.93	240.9	42	0	391	65.68	70.2	6	0
323	48.70	59.3	24	0	356	19.02	237.3	42	0	392	77.46	68.5	6	0
324	49.87	60.5		1	357	23.20	242.6	42	0	393	76.15	68.2	6	0
325	50.83	60.2	24	0	358	28.80	244.3	24	0	394	75.09	68.0	6	0
326	51.82	59.9	24	0	359	32.45	240.5	24	0	395	73.96	67.6	6	0
327	52.78	59.5	42	0	361	98.50	72.7		21	396	73.16	68.1	6	0
328	53.65	59.1		3	362	97.73	72.8	6	0	397	71.92	67.7	6	0
329	55.25	59.6	6	0	363	96.85	72.7	6	0	398	70.62	68.5	6	0
330	56.30	60.2		1	364	96.14	72.7	6	0	399	69.33	69.1	6	0
331	46.77	58.3		6/9	365	95.46	72.5	6	0	400	68.19	69.8	6	0
332	46.01	58.4		1	366	94.71	72.3	6	0/12					
333	44.92	58.3	24	0	367	93.96	72.3	6	0					

Table 3, continued.

Shot Number 8112 Shot Point 8114 Deployment 5
 Shot Time (Julian day, hr, min, sec): 190:07:15:00.021

Loc	Dist (km)	Azim (deg)	Tape		Loc	Dist (km)	Azim (deg)	Tape		Loc	Dist (km)	Azim (deg)	Tape	
...	.....	.....	Db	Grade	...	.....	.....	Db	Grade	...	.....	.....	Db	Grade
301	69.44	260.8	24	0	334	60.34	262.8	42	0	368	9.28	257.2	42	0
302	71.27	260.6		17	335	61.23	262.1	42	0	369	10.42	255.2	42	0
303	73.00	260.6		3	336	62.15	262.6	42	0	370	11.31	259.9	42	0
304	75.64	260.2	24	0	337	63.43	263.1	24	0	371	12.71	261.1	42	0
305	77.13	260.4	6	0	338	64.89	263.5	24	0	372	13.46	256.8	42	0
306	78.10	261.4	6	0	339	66.55	262.9	24	0	373	14.89	258.1	42	0
307	78.61	262.6	6	0	340	68.18	261.6	24	0	374	16.51	256.1	42	0
308	79.82	263.1	6	0	341	92.64	256.4	6	0	375	17.61	259.6	24	0
309	80.78	262.9	6	0	342	93.75	256.1	6	0	376	18.77	260.8		21
310	81.96	262.9		3	343	95.25	255.6	6	0	377	20.13	262.3	42	0
311	82.78	262.9	6	0	344	97.49	255.4	6	0	378	21.56	262.5	42	0
312	83.95	263.1	6	82	345	97.99	254.9	6	0	381	47.57	267.5	6	0
313	83.39	261.4	6	0	346	98.66	254.5	6	0	382	45.98	266.6	24	0
314	84.95	260.7	6	0	347	99.80	254.3	6	0	383	45.48	265.2		9
315	86.59	260.5	6	0	348	100.40	254.4	6	0	384	44.51	264.3	24	0
316	88.24	260.1	6	0	349	101.26	254.2	6	0	385	43.61	263.2	6	0
317	89.71	259.6	6	0	350	101.38	253.7	6	0	386	42.63	261.7	24	0
318	89.90	258.8	6	0	351	101.94	253.1	6	0	387	41.88	258.6	24	0
319	89.79	257.5		1	352	101.96	252.8	6	0	388	39.42	261.3	6	0
320	90.41	256.3	6	0	353	105.93	252.5	6	0	389	38.27	260.5	24	0
321	57.56	264.8	24	0	354	109.64	252.2	6	0	390	37.39	259.1	24	0
322	56.63	264.7	24	0	355	114.57	251.4	6	0	391	36.61	257.3	6	0
323	55.83	264.4	24	0	356	120.34	250.3	6	0	392	25.51	265.8		21
324	54.37	263.9		1	357	124.78	250.9	6	0	393	26.87	265.8	24	0
325	53.59	264.6	6	0	358	130.42	250.9	6	0	394	27.97	265.6	24	0
326	52.79	265.3	6	0	359	133.77	249.8	6	0	395	29.17	265.8	24	0
327	52.09	266.1	6	0	361	3.40	254.1	42	0	396	29.77	264.3	24	0
328	51.47	266.9	24	0	362	4.18	251.4	42	0	397	31.08	264.4	24	0
329	49.84	267.3	24	0	363	5.06	254.3	42	0	398	32.10	262.1	24	0
330	48.64	267.2		1	364	5.76	253.2	42	0/11	399	33.20	260.4	24	0
331	57.92	264.3	24	0	365	6.46	255.9	42	0	400	34.18	258.5	24	0
332	58.58	263.9		1	366	7.23	258.3	42	0					
333	59.61	263.5	24	0	367	7.98	257.4	42	0/15					

Table 3, continued.

Shot Number 8113 Shot Point 8113 Deployment 5
 Shot Time (Julian day, hr, min, sec): 190:07:30:00.015

Loc	Dist (km)	Azim (deg)	Tape Db Grade	Loc	Dist (km)	Azim (deg)	Tape Db Grade	Loc	Dist (km)	Azim (deg)	Tape Db Grade
...
301	195.57	268.4	6 0	334	186.81	269.4	6 0	368	136.10	271.5	24 0
302	197.35	268.3	17	335	187.62	269.2	6 0	369	137.11	271.3	6 0
303	199.06	268.2	24 0	336	188.59	269.3	6 0	370	138.18	271.5	6 0
304	201.62	268.0	6 0	337	189.90	269.4	6 0	371	139.61	271.5	24 0
305	203.13	268.0	6 0	338	191.40	269.5	6 0	372	140.14	271.1	6 0
306	204.24	268.3	6 0	339	192.99	269.3	6 0	373	141.59	271.1	6 0
307	204.92	268.8	6 0	340	194.44	268.8	6 0	374	143.04	270.7	6 0
308	206.39	268.9	6 0	341	217.86	265.8	6 0	375	144.34	271.0	6 0
309	207.33	268.8	6 0	342	218.87	265.6	6 0	376	145.55	271.1	6 0
310	208.49	268.8	3	343	220.23	265.3	6 0	377	146.96	271.2	6 0
311	209.31	268.8	6 0	344	222.39	265.1	6 0	378	148.38	271.1	6 0
312	210.50	268.8	6 82	345	222.75	264.9	6 0	381	174.48	271.2	6 0
313	209.71	268.2	6 0	346	223.28	264.7	6 0	382	172.85	271.0	24 0
314	211.14	267.8	6 0	347	224.34	264.5	6 0	383	172.26	270.6	17
315	212.73	267.7	6 0	348	224.98	264.6	6 0	384	171.23	270.4	6 0
316	214.31	267.5	6 0	349	225.75	264.4	6 0	385	170.26	270.2	6 0
317	215.65	267.2	6 0	350	225.73	264.2	6 0	386	169.16	269.9	6 0
318	215.68	266.9	6 0	351	226.08	263.9	6 0	387	168.06	269.1	6 0
319	215.29	266.3	1	352	226.00	263.8	6 0	388	165.94	269.9	6 0
320	215.64	265.8	6 0	353	229.80	263.4	6 0	389	164.72	269.8	6 0
321	184.24	270.1	6 0	354	233.38	263.2	6 0	390	163.71	269.5	6 0
322	183.31	270.2	6 0	355	237.94	262.6	6 0	391	162.72	269.2	6 0
323	182.48	270.1	6 0/15	356	243.19	261.8	6 0	392	152.45	271.4	6 0
324	181.00	270.0	1	357	247.78	261.8	6 0	393	153.81	271.4	6 0
325	180.28	270.2	6 0	358	253.33	261.6	6 0	394	154.89	271.3	6 0
326	179.54	270.4	6 0	359	256.18	260.9	6 0	395	156.09	271.3	6 0
327	178.90	270.7	6 0	361	130.37	272.1	6 0	396	156.61	271.0	6 0
328	178.34	270.9	24 0	362	131.04	271.9	6	397	157.91	271.0	6 0
329	176.73	271.1	6 0	363	131.95	271.9	6 0	398	158.77	270.5	6 0
330	175.54	271.1	1	364	132.59	271.7	6 0	399	159.71	270.0	6 0
331	184.55	270.0	6 0	365	133.33	271.8	6 0	400	160.49	269.6	6 0
332	185.18	269.8	1	366	134.15	271.8	6 0				
333	186.16	269.7	6 0	367	134.85	271.7	6 0				

Table 3, continued.

Shot Number 8114 Shot Point 8105 Deployment 5
 Shot Time (Julian day, hr, min, sec): 190:07:45:00.018

Loc	Dist (km)	Azim (deg)	Tape		Loc	Dist (km)	Azim (deg)	Tape		Loc	Dist (km)	Azim (deg)	Tape	
...	.....	.....	Db	Grade	...	.....	.....	Db	Grade	...	.....	.....	Db	Grade
301	12.70	242.3	24	0	334	3.45	228.3	42	0	368	48.34	86.2	6	0
302	14.50	243.9		17	335	4.60	227.0	42	0	369	47.28	86.9	6	0
303	16.17	245.5	24	0	336	5.13	237.9	42	0	370	46.27	86.0	6	0
304	18.85	246.2	24	0	337	6.17	247.0	42	0	371	44.84	85.8	24	0
305	20.24	247.9	24	0	338	7.49	253.6	42	0	372	44.23	87.2	6	0
306	20.95	252.0	24	0	339	9.25	251.2	42	0	373	42.78	87.1	6	0
307	21.23	256.7	24	0	340	11.18	245.3	42	0	374	41.29	88.3	6	0
308	22.59	258.9	6	0	341	36.88	243.3	6	0	375	40.01	87.1	6	0
309	23.57	258.4	24	0	342	38.09	242.8	6	0	376	38.82	86.7	6	0
310	24.75	258.4		3	343	39.73	242.2	6	0	377	37.42	86.1	6	0
311	25.56	258.7	24	0	344	41.96	242.6	6	0	378	35.99	86.2	6	0
312	26.72	259.4	24	0	345	42.65	241.5	6	0	381	10.24	72.2	42	0
313	26.39	254.1	6	0	346	43.47	240.8	6	0	382	11.65	77.5		17
314	28.06	252.4	24	0	347	44.67	240.7	6	0	383	12.04	83.3	42	0
315	29.76	252.0	6	0	348	45.19	241.2	6	0	384	13.02	86.5	42	0
316	31.46	251.6	6	0	349	46.13	240.9	6	0	385	13.98	89.7	24	0
317	33.05	250.4	24	0	350	46.45	239.9	6	0	386	15.12	93.4	24	0
318	33.44	248.4	6	0	351	47.24	238.8	6	0	387	16.53	100.7	6	0
319	33.73	244.9		1	352	47.41	238.1	6	0	388	18.33	92.2	24	0
320	34.73	242.3	6	0	353	51.39	238.6	6	0	389	19.58	93.2	24	0
321	0.05	239.8	94	0	354	55.10	239.1	6	0	390	20.66	95.1	24	0
322	0.90	88.9	62	0	355	60.27	238.6	6	0	391	21.78	97.5	24	0
323	1.74	97.9	62	0	356	66.38	237.8	6	0	392	32.02	84.0	6	0
324	3.26	98.9		1	357	70.50	239.5	6	0	393	30.65	83.9	6	0
325	3.93	87.0	42	0	358	76.04	240.4	6	0	394	29.56	84.0	6	0
326	4.75	79.1	42	0	359	79.78	239.0	6	0	395	28.35	83.8	24	0
327	5.58	72.2	42	0/12	361	54.18	85.5	6	0	396	27.75	85.4	24	0
328	6.37	67.3	42	0	362	53.47	85.8	6	0	397	26.44	85.3	24	0
329	8.02	69.0	42	0	363	52.56	85.8	6	0	398	25.50	88.1	24	0
330	9.15	71.6		1	364	51.89	86.1	6	0	399	24.56	90.8	24	0
331	0.65	212.5	42	0	365	51.15	85.9	6	0	400	23.85	93.8	24	0
332	1.38	224.4		1	366	50.34	85.7	6	0					
333	2.44	232.8	42	0	367	49.62	86.0	6	0					

Table 3, continued.

Shot Number 8115 Shot Point 8104 Deployment 5
 Shot Time (Julian day, hr, min, sec): 190:09:00:00.013

Loc	Dist (km)	Azim (deg)	Tape		Loc	Dist (km)	Azim (deg)	Tape		Loc	Dist (km)	Azim (deg)	Tape	
---	----	-----	Db	Grade	---	----	-----	Db	Grade	---	----	-----	Db	Grade
301	15.08	94.2	24	0	334	23.84	83.9	42	0	368	74.96	83.9	24	0
302	13.37	96.8		3	335	22.98	85.8	42	0	369	73.88	84.3	6	0
303	11.73	99.3	42	31	336	22.03	84.6	42	0	370	72.89	83.6	6	0
304	9.47	107.2	42	0	337	20.75	83.4	42	0	371	71.47	83.5	24	0
305	8.04	110.4	42	0	338	19.29	82.0	42	0	372	70.82	84.4	6	0
306	6.58	104.6	42	0	339	17.62	84.0	42	0	373	69.36	84.2	6	0
307	5.62	90.6	42	0	340	16.13	89.5	42	0	374	67.83	84.9	6	0
308	4.15	83.7	42	0	341	13.52	209.4	42	0	375	66.61	84.1	6	0
309	3.20	89.1	42	0	342	14.70	211.0	42	0	376	65.42	83.8	6	0
310	2.04	94.2		3	343	16.33	212.8	24	0	377	64.05	83.4	24	0
311	1.23	99.8	42	0	344	18.18	217.0	24	0	378	62.62	83.4	24	0
312	0.12	170.9	82	0	345	19.12	215.8	24	0	381	36.89	77.6	24	0
313	2.60	159.5	42	0	346	20.10	215.4	42	0	382	38.36	79.0		1
314	3.70	187.2	42	0	347	21.23	216.5	24	0	383	38.74	80.8		3
315	4.81	204.8	42	0	348	21.55	218.1	24	0	384	39.68	81.9	24	0
316	6.25	214.7	42	0	349	22.51	218.4	24	0	385	40.56	83.1	24	0
317	7.92	217.7	42	0	350	23.12	216.9	24	0	386	41.57	84.6	24	0
318	8.91	212.5	42	0	351	24.21	215.6	24	0	387	42.57	87.6		6
319	10.40	204.1		1	352	24.58	214.5	24	0	388	44.79	84.7	24	0
320	12.19	201.4	42	0	353	28.12	218.6	24	0	389	45.99	85.4	24	0
321	26.67	79.7	24	0	354	31.48	221.8		1	390	46.97	86.4	42	0
322	27.60	79.9	24	0	355	36.57	223.4	24	0	391	47.92	87.6	24	0
323	28.38	80.7	24	0	356	42.71	224.3	24	0	392	58.70	82.0		6
324	29.82	81.7		1	357	46.29	228.0	24	0	393	57.33	81.9	6	0
325	30.62	80.6	24	0	358	51.54	230.5	24	0	394	56.24	81.9	6	0
326	31.47	79.5	24	0	359	55.54	229.2	6	0	395	55.04	81.8	24	0
327	32.25	78.3	42	0	361	80.61	83.5	6	0	396	54.41	82.5	6	0
328	32.96	77.3	42	0	362	79.88	83.8	6	0	397	53.10	82.4	6	0
329	34.63	77.2	6	0	363	79.18	83.7	6	0	398	52.09	83.8	24	0
330	35.80	77.6		1	364	78.51	83.9	6	0	399	51.04	85.0	24	0
331	26.28	80.7	24	0	365	77.78	83.7	6	0	400	50.20	86.3	24	0
332	25.60	81.4		1	366	76.97	83.6	6	0					
333	24.57	82.2	24	0	367	76.25	83.8	6	0					

Table 3, continued.

Shot Number 8116 Shot Point 8110 Deployment 6
 Shot Time (Julian day, hr, min, sec): 225:07:15:00.020

Loc	Dist (km)	Azim (deg)	Tape		Loc	Dist (km)	Azim (deg)	Tape		Loc	Dist (km)	Azim (deg)	Tape	
---	-----	-----	Db	Grade	---	-----	-----	Db	Grade	---	-----	-----	Db	Grade
401	0.10	330.3	94	0	434	85.14	181.0	6	0	467	52.08	185.3	24	0
402	0.18	143.5	94	0	435	83.13	180.2	6	0	468	52.90	185.6	24	0
403	0.66	181.6	88	0	436	62.62	181.2	24	0	469	53.39	185.6	6	0
404	1.33	188.2	68	0	437	83.88	180.5	6	0	470	54.32	185.6	6	0
405	2.08	181.4	68	0	438	84.42	180.7	6	0	471	55.13	185.8	24	0
406	2.87	176.3	62	0	439	86.11	181.2	6	0	472	56.04	185.2	24	0
407	3.83	175.1	62	0	440	61.68	182.2	6	0	473	56.94	184.8	6	0
408	4.65	167.1		1	441	20.55	171.8	42	0	474	57.76	184.3	6	0
409	5.54	165.2	52	0	442	21.83	173.8	42	0	475	58.56	183.9	24	0/15/26
410	6.46	160.7	48	0	443	22.62	180.1	24	0	476	59.57	183.8	24	0
411	7.62	154.0	24	0	444	24.07	187.3	42	0	477	60.31	183.5	6	0
412	8.30	157.8	48	0	445	25.59	188.4	24	0	478	61.11	183.4	6	0
413	9.16	161.0		3	446	27.36	188.8	24	0	481	87.18	180.9	6	0
414	9.82	164.3	42	0	447	29.05	189.4	42	0	482	87.79	181.0	6	0/12
415	10.76	165.8	42	0	448	30.74	189.6	24	0/25	483	88.66	180.9	24	0/12
416	12.38	169.1	42	0	449	32.40	190.0	24	0	484	89.58	181.4	6	0/12
417	13.90	169.3	42	0	450	34.02	189.7	24	0	485	90.38	181.4	6	0/12
418	15.40	172.8	42	0	451	35.53	188.9	24	0	486	91.15	181.3	6	0/12
419	17.05	173.3	42	0	452	37.13	188.4	24	0	487	91.88	180.9	6	0
420	18.67	172.3	42	0	453	38.84	188.2	24	0	488	92.71	180.7	6	0
421	64.42	181.6		1	454	40.38	188.4	24	0/25/26	489	93.41	180.6	6	0
422	65.87	182.4	6	0	455	41.75	188.4	24	0	490	94.09	180.6	6	0/10
423	67.69	182.7	24	0	456	42.55	188.5		1	491	95.05	180.5		1
424	68.99	181.9	6	0	457	43.41	187.8	24	0	492	100.59	179.7	6	0
425	63.56	181.0	6	0/9	458	44.47	187.7	6	0	493	105.03	179.5	6	0
426	70.67	183.0	6	0	459	45.43	187.0	6	0	494	110.04	178.1	6	0
427	72.07	181.9	6	0	460	46.25	186.1	6	0	495	115.12	178.0	6	0
428	73.66	181.7	6	0	461	46.92	186.1	6	0	496	121.19	176.6	6	0
429	75.02	179.8	6	0	462	47.71	186.0	6	0	497	124.93	176.5	6	0
430	76.49	178.4	6	0	463	48.69	185.8	6	0	498	129.69	176.5	6	0
431	78.35	178.7	6	0	464	49.70	185.0	6	0	499	134.22	176.3	6	0/10
432	79.86	179.0	6	0/12	465	50.49	185.1	6	0	500	139.12	176.8	6	0
433	81.74	179.7	6	0/12	466	51.30	185.2	6	0					

Table 3, continued.

Shot Number 8117 Shot Point 8112 Deployment 6
 Shot Time (Julian day, hr, min, sec): 225:07:30:00.894

Loc	Dist (km)	Azim (deg)	Tape		Loc	Dist (km)	Azim (deg)	Tape		Loc	Dist (km)	Azim (deg)	Tape	
....
401	95.12	0.4	6	0	434	9.91	356.1	42	0	467	43.26	354.6	24	0
402	94.89	0.5	6	0	435	11.90	2.3	42	0	468	42.51	354.0	24	0
403	94.37	0.5	6	0	436	32.32	359.0	42	0	469	42.03	353.9	24	0
404	93.72	0.4	6	0	437	11.14	0.4	42	0	470	41.12	353.6	24	0
405	92.96	0.5	24	0	438	10.61	358.7	42	0	471	40.36	353.1	62	0
406	92.17	0.6	6	0	439	8.99	353.4	42	0/25	472	39.34	353.7	24	0
407	91.22	0.7	6	0	440	33.33	357.2	24	0	473	38.39	354.0	24	0
408	90.51	1.2		1	441	74.67	2.9	24	0	474	37.49	354.5	24	0
409	89.70	1.4	6	0	442	73.29	2.5	24	0	475	36.63	355.0	24	0
410	88.97	1.9	6	0	443	72.30	0.6	6	0/9	476	35.63	354.9	24	0
411	88.28	2.7	6	0	444	71.08	358.2	24	0	477	34.84	355.2	24	0
412	87.43	2.6	6	0	445	69.67	357.6	24	0	478	34.04	355.1		12
413	86.44	2.5		1	446	67.97	357.1	24	0	481	7.87	355.8	42	0/31
414	85.64	2.3	6	0	447	66.38	356.6	6	0	482	7.28	354.3	42	0/31
415	84.66	2.3	6	0	448	64.75	356.2	24	0/25	483	6.39	355.2		6
416	82.92	2.2	24	0	449	63.20	355.6	24	0	484	5.65	345.5	52	0/23/31
417	81.42	2.4	24	0	450	61.59	355.4	24	0	485	4.88	343.4	58	0/23/31
418	79.69	2.0	24	0	451	60.01	355.5	24	0	486	4.13	340.9	62	0/23/31
419	78.03	2.0	24	0	452	58.38	355.4	24	0	487	3.22	348.0		25
420	76.49	2.5	24	0	453	56.67	355.2	24	0	488	2.35	351.6	64	0/23/31
421	30.54	358.1		1	454	55.22	354.6	24	0	489	1.64	352.0	70	0/23/31
422	29.17	356.2	24	0	455	53.89	354.3	24	0	490	0.97	348.1	88	0/23/31
423	27.42	354.8	42	0	456	53.13	354.0		1	491	0.09	257.6		1
424	26.02	356.6	24	0	457	52.16	354.4	24	0	492	5.73	165.8	48	0
425	31.37	359.5	24	0	458	51.12	354.1	6	0	493	10.14	170.2	42	0
426	24.51	353.3	24	0	459	50.05	354.5	24	0	494	15.57	163.6	42	0
427	22.95	355.8	42	0	460	49.11	355.2	24	0	495	20.56	166.6	42	0
428	21.34	356.1	42	0	461	48.45	355.0	24	0	496	27.14	162.7	42	0
429	19.93	3.0	42	0	462	47.66	354.9	24	0	497	30.84	163.9	42	0
430	18.69	9.0	42	0	463	46.66	354.9	24	0	498	35.49	165.6	42	0
431	16.79	8.9	42	0	464	45.56	355.5	24	0	499	40.03	166.1	24	0
432	15.24	8.3	42	0	465	44.79	355.2	24	0	500	44.66	168.9	24	0
433	13.33	5.2	42	0	466	44.00	355.0	6	0					

Table 3, continued.

Shot Number 8118 Shot Point 8105 Deployment 6
 Shot Time (Julian day, hr, min, sec): 225:07:45:00.010

Loc	Dist (km)	Azim (deg)	Tape Db	Grade	Loc	Dist (km)	Azim (deg)	Tape Db	Grade	Loc	Dist (km)	Azim (deg)	Tape Db	Grade
401	121.82	67.0	6	0	434	117.43	108.5	6	0	467	107.73	92.2	6	0
402	121.88	67.1	6	0	435	117.87	107.4	6	0/9	468	107.44	92.6	6	0
403	121.56	67.3	24	15	436	112.23	97.6	6	0	469	107.42	92.9	6	0
404	121.16	67.6	6	0	437	117.73	107.8	6	0	470	107.37	93.4	6	0
405	121.00	67.9	6	0	438	117.61	108.1	6	0	471	107.19	93.8	24	0
406	120.93	68.3	6	0	439	117.41	109.0	6	0	472	107.79	94.3	6	0
407	120.72	68.7	6	0	440	111.05	97.2	6	0	473	108.15	94.8	6	0
408	121.13	69.2	1		441	118.41	76.7	6	0	474	108.66	95.2	6	0
409	121.20	69.6	6	0	442	117.54	77.3	6	0/12	475	109.15	95.6	24	0/15/31
410	121.62	70.1	6	0	443	114.99	77.5	6	0/12	476	109.24	96.2	6	0
411	122.51	70.6	6	0	444	111.81	77.7	6	0/12	477	109.60	96.5	6	0
412	122.05	70.9	6	0	445	110.85	78.4	6	0	478	109.73	97.0		25
413	121.59	71.3	1		446	110.07	79.2	6	0	481	118.19	109.4	6	0/6
414	121.04	71.6	6	0	447	109.26	80.0		12	482	118.27	109.7	6	0/6
415	120.72	72.1	6	0	448	108.63	80.8		25	483	118.75	110.1	6	0/6
416	119.93	72.8	6	0	449	107.87	81.6	6	0	484	118.25	110.6	6	0
417	119.73	73.5	6	0	450	107.57	82.5		15	485	118.56	111.0	6	0
418	118.67	74.2	6	0	451	107.60	83.3	6	0	486	118.89	111.3	6	0
419	118.28	75.0	6	0	452	107.53	84.2	6	0	487	119.80	111.6		15
420	118.41	75.8	6	0	453	107.27	85.1	6	0	488	120.41	111.9	6	0
421	112.06	98.6	1		454	106.77	85.9		25	489	120.79	112.1	6	0
422	111.40	99.4	3		455	106.52	86.6	6	0	490	121.08	112.4	6	0
423	111.19	100.3	24	0	456	106.25	87.0		1	491	121.56	112.8		1
424	112.37	100.9	6	0	457	106.67	87.5	6	0	492	125.20	114.9	6	0
425	112.64	98.1	6	0/9	458	106.51	88.1	6	0	493	127.46	116.6	6	0
426	111.40	101.8	6	0	459	106.97	88.6	6	0	494	132.14	118.0	6	0
427	112.89	102.4	6	0/9	460	107.58	89.1	6	0	495	134.94	119.8	6	0
428	113.48	103.2	6	0/8	461	107.50	89.5	6	0	496	140.83	121.2	6	0
429	116.20	103.6	6	0	462	107.45	89.9	6	0	497	143.22	122.4	6	0
430	118.38	104.0	6	0/12	463	107.56	90.4	6	0	498	146.11	123.9	6	0
431	118.56	105.0	6	0	464	108.14	91.0	6	0	499	149.30	125.2	6	0
432	118.59	105.7	6	0	465	108.02	91.4	6	0	500	151.48	126.9	6	0
433	118.17	106.7	6	0	466	107.93	91.8	6	0					

Table 3, continued.

Shot Number 8119 Shot Point 8111 Deployment 6
 Shot Time (Julian day, hr, min, sec): 225:09:00:00.511

Loc	Dist (km)	Azim (deg)	Tape		Loc	Dist (km)	Azim (deg)	Tape		Loc	Dist (km)	Azim (deg)	Tape	
...	.....	.....	Db	Grade	...	.....	.....	Db	Grade	...	.....	.....	Db	Grade
401	52.95	5.6	24	0	434	32.64	173.3	24	0	467	0.85	26.2	82	0
402	52.74	5.8	6	0	435	30.82	170.8	24	0	468	0.05	130.7	94	0
403	52.21	5.7	24	0	436	10.72	158.7	42	0	469	0.52	180.0	88	0
404	51.55	5.6	24	0	437	31.50	171.7	42	0	470	1.45	184.6	70	0
405	50.80	5.9		3	438	31.98	172.4	42	0/12	471	2.26	188.9	62	0
406	50.05	6.2	24	0	439	33.55	174.1	24	0	472	3.20	176.8	62	0
407	49.12	6.5	24	0	440	9.45	162.6	42	0	473	4.15	173.7	58	0
408	48.48	7.4		1	441	33.29	14.2	24	0	474	5.07	169.9	54	0
409	47.72	8.0	24	0	442	31.84	13.8	24	0	475	5.96	167.5	48	0
410	47.09	9.0	24	0	443	30.43	9.8	24	0	476	6.94	169.4	42	0
411	46.57	10.6	6	0	444	28.82	4.4	24	0	477	7.74	168.5	42	0
412	45.71	10.6	24	0	445	27.34	3.1	24	0	478	8.54	169.3		3
413	44.71	10.6		1	446	25.60	2.3	24	0	481	34.68	173.6	24	0
414	43.88	10.4		3	447	23.96	1.2	24	0	482	35.27	173.9	24	0
415	42.91	10.6	24	0	448	22.30	0.3	42	0	483	36.15	173.7		6
416	41.16	10.6	24	0	449	20.71	358.9	42	0	484	36.96	175.3	24	0
417	39.73	11.4	24	0	450	19.09	358.5	42	0	485	37.76	175.3	24	0
418	38.02	10.9	24	0	451	17.51	359.1	24	0	486	38.53	175.3	24	0
419	36.40	11.4	24	0	452	15.89	359.3	42	0	487	39.34	174.5		25
420	34.98	12.8	24	0	453	14.17	358.8	42	0	488	40.19	174.1	24	0
421	12.27	163.7		1	454	12.69	356.9	42	0/25	489	40.90	174.0	24	0
422	13.44	169.1	42	0	455	11.35	355.6	42	0	490	41.58	174.1	24	0
423	15.13	172.4	42	0	456	10.59	354.0		1	491	42.55	174.1		3
424	16.60	169.8	42	0	457	9.62	356.2	42	0	492	48.22	173.0	24	0
425	11.70	159.2	42	0/17	458	8.58	354.9	42	0	493	52.66	173.2	24	0
426	18.03	174.9	24	0	459	7.52	357.8	46	0	494	57.92	171.2	6	0
427	19.62	171.8	42	0	460	6.64	2.9	46	0	495	62.98	171.6	24	0
428	21.23	171.8	42	0	461	5.96	2.5	52	0	496	69.36	169.6	6	0
429	23.07	166.2	42	0	462	5.17	2.3	54	0	497	73.10	169.8	6	0
430	24.96	162.8	24	0	463	4.18	4.3	58	0	498	77.83	170.2	6	0
431	26.67	164.6	24	0	464	3.23	15.7	62	0	499	82.46	170.2	6	0
432	28.03	166.2	24	0/13	465	2.44	17.3	62	0	500	87.21	171.4	6	0
433	29.59	168.9	24	0	466	1.64	21.8	70	0					

Table 3, continued.

Shot Number 8120 Shot Point 8103 Deployment 7
 Shot Time (Julian day, hr, min, sec): 228:10:30:00.015

Loc	Dist (km)	Azim (deg)	Tape Db Grade	Loc	Dist (km)	Azim (deg)	Tape Db Grade	Loc	Dist (km)	Azim (deg)	Tape Db Grade
501	93.72	4.6	6 0/9	533	39.94	359.5	24 0	565	1.29	358.5	82 0
502	93.84	4.1	6 3/24	534	39.44	0.8	24 0	566	0.94	336.1	88 0
503	93.72	3.7	6 0	535	38.97	2.9	24 0	567	0.47	326.9	88 0
504	93.28	3.5	6 0	536	38.34	4.7	24 0	568	0.06	288.6	94 0
505	92.55	3.4	24 0	537	37.58	5.4	24 0	569	5.33	180.6	58 0
506	91.89	3.0	24 0	538	37.07	5.9	24 0	570	10.56	190.7	42 0
507	91.36	2.8	24 0	539	36.49	6.2	24 0	571	15.69	191.2	42 0
508	90.57	2.6	24 0	540	35.30	10.2	24 0	572	20.66	194.1	42 0
509	89.89	2.2	24 0	541	33.91	11.6	24 0	573	26.67	186.1	24 0
510	89.17	1.2	24 0	542	32.10	14.1	24 0	574	31.24	179.1	42 0
511	88.84	0.9	24 0	543	30.49	15.1	24 0	575	36.41	176.2	42 0
512	88.48	1.8	24 0	544	28.71	14.8	42 0	581	75.28	1.3	25
513	87.64	2.0	24 0	545	26.90	14.3	42 0	582	73.82	0.4	6 0
514	86.11	2.3	24 0	546	25.38	14.4	42 0	583	72.32	1.2	24 0/22
515	85.00	1.8	24 0	547	23.77	14.3	42 0	584	70.82	3.1	24 0
516	83.43	1.3	24 0	548	21.98	9.9	24 0	585	69.06	3.5	6 0
517	81.93	0.7	24 0	549	20.25	8.6	42 0	586	67.38	4.2	24 0
518	80.34	0.2	24 0	550	18.06	8.9	42 0	587	65.82	3.9	25
519	78.41	359.6	24 0	551	16.57	9.7	42 0	588	64.20	3.5	24 0
520	76.96	0.3	6 0	552	14.91	12.5	42 0	589	62.51	3.6	24 0
521	46.51	358.7	62 0/6	553	13.56	13.4	42 0	590	60.72	2.9	24 0
522	45.83	358.8	24 0	554	11.62	16.9	42 0	591	59.08	1.2	24 0
523	45.21	358.9	24 0	555	10.19	22.7	42 0	592	57.58	3.9	25
524	44.71	358.8	24 0	556	8.83	26.3	42 0	593	56.09	3.4	24 0
525	44.27	359.0	24 0	557	7.18	25.9	42 0	594	54.23	2.2	24 0
526	43.85	358.8	3	558	6.20	27.2	42 0	595	52.57	1.0	24 0
527	43.22	358.7	24 0	559	5.60	29.3	42 0	596	50.95	0.2	24 0
528	42.61	359.0	24 0	560	4.64	20.3	42 0	597	49.15	359.9	52 0
529	42.26	359.1	24 0	561	4.21	19.4	62 0	598	48.45	359.8	24 0
530	41.62	358.6	24 0	562	3.59	16.9	68 0/6	599	47.80	359.4	24 0
531	41.15	357.0	24 0	563	2.94	23.0	70 0	600	47.05	358.9	24 0
532	40.38	358.2	24 0	564	2.29	16.5	70 0				

Table 3, continued.

Shot Number 8121 Shot Point 8101 Deployment 7
 Shot Time (Julian day, hr, min, sec): 228:10:45:00.012

Loc	Dist (km)	Azim (deg)	Tape		Loc	Dist (km)	Azim (deg)	Tape		Loc	Dist (km)	Azim (deg)	Tape	
...	.....	.....	Db	Grade	...	.....	.....	Db	Grade	...	.....	.....	Db	Grade
501	0.05	209.6	94	0	533	54.00	188.4	6	0	565	92.48	184.7	6	0
502	0.81	279.6	88	0	534	54.36	187.3	6	0	566	92.94	184.9	6	0
503	1.42	272.3	76	0	535	54.72	185.8	24	0	567	93.40	184.8	6	0
504	1.81	258.5	70	0	536	55.31	184.5	24	0	568	93.75	184.6	6	0
505	2.24	241.1	70	0	537	56.09	184.0	6	0	569	99.10	184.4	6	0
506	3.13	236.9	68	0	538	56.61	183.7	24	0	570	104.29	185.2	6	0
507	3.81	234.5	68	0	539	57.20	183.6	6	0	571	109.39	185.5	24	0
508	4.48	228.2	62	0	540	58.63	181.3	6	0	572	114.21	186.3	24	0
509	5.47	228.3	58	0	541	60.15	180.7	24	0	573	120.47	184.9	6	0
510	7.02	232.0	48	0	542	62.23	179.7	6	0	574	124.94	183.2	6	0
511	7.62	232.5	48	0	543	63.92	179.6	6	0	575	129.95	182.3	6	0
512	6.92	223.5	48	0	544	65.60	180.2	24	0	581	18.99	197.7		25
513	7.34	216.9	48	0	545	67.30	180.8	6	0	582	20.72	199.5	24	0
514	8.45	208.6	42	0	546	68.79	181.0	24	0	583	21.89	195.9	42	0/22
515	9.80	209.8	42	0	547	70.34	181.4	6	0	584	22.93	189.1	24	0
516	11.47	208.8	42	0	548	71.80	183.0	6	0	585	24.64	187.5	24	0
517	13.20	209.1	42	0	549	73.47	183.5	6	0	586	26.28	185.6	24	0
518	14.93	208.6	42	0	550	75.66	183.6	6	0	587	27.86	186.3		25
519	16.97	208.2	42	0	551	77.17	183.5		16	588	29.49	186.9	24	0
520	17.88	203.5	42	0	552	78.91	183.1	6	0	589	31.17	186.5	24	0
521	47.63	190.3	24	0	553	80.38	183.1	6	0	590	33.01	187.7	24	0
522	48.28	190.1	6	0	554	82.44	182.9	6	0	591	34.85	190.3	24	0
523	48.87	189.8	24	0	555	84.13	182.5	6	0	592	36.09	185.7		25
524	49.38	189.8	24	0	556	85.62	182.4	6	0	593	37.60	186.4	24	0
525	49.78	189.5	24	0	557	87.11	182.9	6	0	594	39.54	187.9	24	0
526	50.22	189.6	24	0	558	88.07	183.1	6	0	595	41.32	189.1	24	0
527	50.85	189.6	24	0	559	88.70	183.1	6	0	596	43.04	189.8	24	0
528	51.42	189.2	24	0	560	89.30	183.8	6	0	597	44.85	189.7	24	0
529	51.74	189.0	6	0	561	89.70	183.9	6	0	598	45.56	189.7	24	0
530	52.44	189.3	24	0	562	90.26	184.1	6	0	599	46.26	189.9	6	0
531	53.15	190.5	6	0	563	90.98	184.0	6	0	600	47.07	190.3	24	0
532	53.72	189.4	24	0	564	91.52	184.3	6	0					

Table 3, continued.

Shot Number 8122 Shot Point 8102 Deployment 7
 Shot Time (Julian day, hr, min, sec): 228:11:00:00.018

Loc	Dist (km)	Azim (deg)	Tape Db Grade	Loc	Dist (km)	Azim (deg)	Tape Db Grade	Loc	Dist (km)	Azim (deg)	Tape Db Grade
501	51.45	9.1	6 0	533	2.59	173.2	42 0	565	41.22	179.1	24 0
502	51.52	8.2	6 0	534	3.32	157.7	42 0	566	41.64	179.6	24 0
503	51.35	7.5	6 0	535	4.45	143.6	42 0	567	42.12	179.4	12
504	50.89	7.2	6 0	536	5.76	138.2	42 0	568	42.49	179.2	24 0
505	50.15	7.1	24 0	537	6.62	140.4	42 0	569	47.84	179.3	24 0
506	49.45	6.4	24 0	538	7.21	141.4	42 0	570	52.90	181.4	24 0
507	48.90	5.9	24 0	539	7.77	143.4	24 0	571	57.95	182.3	24 0
508	48.11	5.7	6 0	540	10.37	138.4	42 0	572	62.69	184.0	24 0
509	47.39	4.9	6 0	541	11.93	141.1	42 0	573	69.06	181.8	6 0
510	46.61	3.2	24 0	542	14.19	143.3	42 0	574	73.75	179.1	24 0
511	46.26	2.6	6 0	543	15.64	146.7	42 0	575	78.90	177.8	24 0
512	45.96	4.2	24 0	544	16.76	151.6	42 0	581	32.84	4.2	25
513	45.14	4.8	24 0	545	17.98	156.1	24 0	582	31.34	2.3	24 0
514	43.63	5.4	24 0	546	19.22	158.8	42 0	583	29.87	4.2	24 0/22
515	42.48	4.4	24 0	547	20.53	161.5	42 0	584	28.57	9.2	24 0
516	40.89	3.7	24 0	548	21.32	168.0	24 0	585	26.88	10.6	24 0
517	39.36	2.5	24 0	549	22.78	170.7	24 0	586	25.32	12.8	24 0
518	37.75	1.5	24 0	550	24.90	172.0	24 0	587	23.72	12.5	25
519	35.90	0.2	24 0	551	26.40	172.5	24 0	588	22.06	12.1	24 0
520	34.47	1.7	24 0	552	28.21	172.1	24 0	589	20.41	13.1	24 0
521	4.01	355.1	62 0	553	29.56	172.6	24 0	590	18.52	11.7	24 0
522	3.33	354.9	62 0	554	31.64	172.7	24 0	591	16.67	6.6	24 0
523	2.70	356.2	68 0	555	33.42	172.1	24 0	592	15.62	17.0	25
524	2.21	353.3	70 0	556	34.89	172.4	24 0	593	14.07	16.5	42 0
525	1.76	358.0	70 0	557	36.25	174.0	24 0	594	12.00	13.1	42 0
526	1.36	349.0	74 0	558	37.16	174.6	24 0	595	10.19	9.0	42 0
527	0.76	338.0	74 0	559	37.77	174.8	24 0	596	8.49	5.5	48 0
528	0.14	315.1	76 0	560	38.22	176.6	24 0	597	6.67	5.0	52 0
529	0.26	168.7	82 0	561	38.59	176.9	6 0	598	5.97	4.6	52 0
530	0.96	201.1	70 0	562	39.11	177.5	24 0	599	5.29	1.9	58 0
531	2.05	226.4	42 0	563	39.84	177.4	24 0	600	4.55	356.8	58 0
532	2.24	196.1	42 0	564	40.33	178.1	24 0				

Table 3, continued.

Shot Number 8123 Shot Point 8105 Deployment 7
 Shot Time (Julian day, hr, min, sec): 228:11:15:00.016

Loc	Dist (km)	Azim (deg)	Tape		Loc	Dist (km)	Azim (deg)	Tape		Loc	Dist (km)	Azim (deg)	Tape	
....
501	40.97	308.9	6	0	533	48.52	235.2	6	0	565	77.24	210.9	6	0
502	41.69	308.4	6	0	534	48.03	234.1	6	0	566	77.79	210.9	6	0
503	42.13	307.8	6	0	535	47.23	232.6	24	0	567	78.13	210.7	6	0
504	42.16	307.1	6	0	536	46.73	231.0	24	0	568	78.35	210.4	6	0
505	41.88	306.1	24	0	537	46.95	230.0	6	0	569	83.05	208.5	6	0
506	42.06	304.9	24	0	538	47.09	229.3	6	0	570	88.40	208.1	6	0
507	42.17	304.0	6	0	539	47.38	228.6	6	0/6	571	93.36	207.2	6	0
508	41.94	302.9	6	0	540	46.78	225.4	6	0	572	98.40	207.0	6	0
509	42.23	301.6	6	0	541	47.46	223.6	6	0	573	103.32	204.3	6	0
510	43.13	299.8	6	0	542	48.34	221.0	6	0	574	106.39	201.6	6	0
511	43.42	299.1	6	0	543	49.56	219.7	6	0	575	110.51	199.7	6	0
512	42.12	299.5	6	0	544	51.25	219.0	6	0	581	38.46	281.5		25
513	41.39	298.7	6	0	545	52.99	218.4	6	0	582	39.34	279.1	6	0
514	40.35	297.0	6	0	546	54.38	217.7	6	0	583	38.20	277.1	6	0/22
515	40.62	295.1	6	0	547	55.87	217.1	6	0	584	35.68	275.0	6	0
516	40.60	292.8	6	0	548	58.23	217.9	6	0	585	35.18	272.2	6	0
517	40.88	290.4	6	0	549	59.98	217.5	6	0	586	34.49	269.3	6	0
518	41.05	287.9	6	0	550	61.86	216.5	6	0	587	35.03	266.8		25
519	41.38	285.1	6	0	551	63.09	215.7	6	0	588	35.65	264.3	6	0
520	40.16	283.5	6	0	552	64.30	214.4	6	0	589	35.88	261.7	6	0
521	45.66	242.5	6	0	553	65.48	213.8	6	0	590	37.01	259.2	6	0
522	45.93	241.7		25	554	67.08	212.7	6	0	591	39.15	257.4	6	0
523	46.13	241.0	6	0	555	68.25	211.5	6	0	592	36.98	254.1		25
524	46.45	240.5	6	0	556	69.53	210.9	6	0	593	37.96	252.2	6	0
525	46.49	239.9	6	0/9	557	71.18	210.8	6	0	594	39.74	250.3	6	0
526	46.88	239.6	6	0	558	72.15	210.6	6	0	595	41.36	248.7	6	0
527	47.22	238.9	6	0/9	559	72.74	210.4	6	0	596	42.70	247.1	6	0
528	47.38	238.2	6	0	560	73.77	211.0	6	0	597	43.65	245.0	6	0
529	47.44	237.7	6	0	561	74.21	211.0	6	0	598	44.04	244.2	6	0
530	48.12	237.3	6	0	562	74.85	211.0	6	0	599	44.61	243.6	6	0
531	49.37	237.5	6	0	563	75.43	210.6	6	0	600	45.33	243.0		12
532	49.04	236.3	6	0	564	76.11	210.8	6	0					

Table 3, continued.

Shot Number 8124 Shot Point 8114 Deployment 8
 Shot Time (Julian day, hr, min, sec): 232:07:00:00.001

Loc	Dist (km)	Azim (deg)	Tape Db	Grade	Loc	Dist (km)	Azim (deg)	Tape Db	Grade	Loc	Dist (km)	Azim (deg)	Tape Db	Grade
601	52.38	221.7	6	0	634	66.70	276.2	6	0	667	49.45	232.6	6	0/6/15
602	52.85	222.4	6	0	635	67.96	276.1	6	0	668	48.46	233.7	24	0
603	53.19	223.2	6	0	636	69.31	276.0	6	0	669	48.76	235.5	6	0
604	53.46	224.0	6	0	637	70.08	277.1	6	0	670	49.25	237.3	6	0
605	53.25	224.8		17	638	71.88	277.4	6	0	671	49.18	239.1	6	0/30
606	53.36	226.0	6	0	639	73.49	277.4	6	0	672	47.94	240.6	6	0/15
607	52.70	226.7	24	0	640	74.81	277.9	6	0	673	47.04	242.0	6	0
608	52.98	219.4	6	0	641	49.17	251.9		1	674	46.57	243.8	6	0
609	53.31	216.8	6	0	642	50.48	253.4	6	0	675	46.71	245.5	6	0
610	52.31	213.3	6	0	643	50.69	254.9	6	0	676	48.09	247.3	24	0
611	55.14	211.7	6	0	644	51.90	255.1	24	0	677	48.26	249.0		16
612	47.13	213.1	6	0	645	51.86	256.2	24	0	678	48.50	250.7		25
613	58.14	200.8	6	0	646	52.41	257.0	24	0	681	91.18	283.0		2
614	63.06	198.9	6	0	647	53.88	257.4	24	0	682	90.21	282.9	6	0
615	66.33	196.4	6	0	648	54.12	258.4	42	0	683	89.75	282.7	6	0/22
616	64.82	190.4	6	0	649	55.20	258.8	42	0	684	89.05	282.3	24	0
617	66.93	186.4	6	0	650	56.10	259.3	42	0	685	88.26	282.0	6	0
618	71.21	183.9	6	0	651	56.60	259.9	42	0	686	87.26	281.7	6	0
619	74.37	181.2	24	0	652	56.22	260.9	42	0/15	687	87.08	281.5		25
620	79.09	179.2	6	0	653	55.68	262.0	42	0	688	86.03	281.6	6	0
621	58.34	267.8		13	654	55.94	262.9		1	689	85.98	281.1	6	0
622	59.14	268.5	6	0	655	56.44	263.6	24	0/26	690	85.33	280.7	6	0
623	59.76	269.1		1	656	56.85	264.2		25	691	84.48	280.3	6	0
624	60.12	269.8	6	0/12/15	657	57.56	264.8	6	0	692	83.57	280.2		25
625	60.18	270.7		1	658	57.02	265.4	6	0	693	82.68	280.2	6	0
626	60.64	271.2		3	659	56.96	266.3	6	0	694	81.98	280.1	6	0
627	61.10	271.8	6	0	660	57.40	267.2		17	695	80.77	280.2	6	0
628	61.70	272.4	6	0	661	52.32	227.6	6	0	696	80.19	280.2	6	0
629	62.27	273.0	6	0	662	51.98	228.3	6	0	697	79.43	279.6	6	0
630	62.77	273.4	6	0	663	51.80	229.3		1	698	77.80	280.8	6	0
631	63.35	274.2	6	0	664	51.53	230.1	6	0	699	76.70	279.8	6	0
632	64.70	274.9	6	0	665	51.21	231.2	6	0	700	75.77	278.9	6	0
633	65.68	276.1	6	0	666	50.60	232.1	6	0					

Table 3, continued.

Shot Number 8125 Shot Point 8105 Deployment 8
 Shot Time (Julian day, hr, min, sec): 232:07:30:00.009

Loc	Dist (km)	Azim (deg)	Tape Db Grade	Loc	Dist (km)	Azim (deg)	Tape Db Grade	Loc	Dist (km)	Azim (deg)	Tape Db Grade
601	40.73	146.3	25	634	15.38	323.8	24 0	667	30.74	143.9	24 0
602	40.21	147.2	3	635	16.18	320.2	24 0	668	29.79	142.0	24 0
603	39.59	147.9	24 0	636	17.12	316.9	24 0	669	28.27	142.5	24 0
604	38.97	148.6	24 0	637	18.56	318.4	24 0	670	26.69	143.3	3
605	38.14	148.6	17	638	20.17	315.8	24 0	671	25.14	142.9	24 0
606	37.05	149.1	24 0	639	21.47	313.1	3	672	24.04	139.6	24 0/25
607	36.30	148.4	24 0	640	22.92	312.5	24 0	673	23.13	136.8	24 0
608	42.96	146.3	24 0	641	14.57	133.5	1	674	21.81	134.6	24 0
609	45.33	145.7	24 0	642	12.80	135.7	24 0	675	20.47	133.6	3
610	48.06	143.3	24 0	643	11.60	133.7	24 0	676	18.56	135.7	24 0
611	50.51	145.6	24 0	644	10.79	138.5	42 0	677	17.24	134.5	24 0
612	46.70	137.2	6 0	645	9.99	135.9	42 0	678	15.83	133.1	2
613	61.37	143.1	24 0	646	9.09	136.6	24 0	681	41.01	308.9	2
614	65.83	145.7	6 0	647	8.05	144.1	42 0	682	40.10	309.4	6 0
615	70.08	146.4	6 0	648	7.13	142.9	42 0	683	39.49	309.2	6 0
616	74.32	142.0	6 0	649	6.38	150.2	42 0	684	38.62	308.9	6 0
617	79.11	140.8	6 0	650	5.65	157.3	42 0	685	37.66	308.7	6 0
618	84.27	141.3	6 0	651	4.91	161.4	42 0	686	36.58	308.8	6 0
619	88.96	141.0	6 0	652	4.09	154.1	42 0	687	36.25	308.5	25
620	94.31	141.5	6 0	653	3.31	139.4	42 0	688	35.42	309.6	6 0
621	3.18	341.1	13	654	2.48	134.0	1	689	35.03	308.5	6 0
622	4.15	333.4	56 0	655	1.64	132.8	42 0	690	34.18	308.2	6 0
623	4.93	329.7	1	656	0.89	125.6	42 0	691	33.15	308.0	24 0
624	5.75	330.2	48 0	657	0.04	236.4	42 0	692	32.28	308.5	25
625	6.67	334.0	1	658	0.76	36.0	42 0	693	31.50	309.3	6 0
626	7.29	332.4	42 0	659	1.58	15.9	42 0	694	30.80	309.6	6 0
627	8.09	331.8	42 0	660	2.38	358.7	13	695	29.85	311.1	24 0
628	8.95	330.6	42 0	661	35.44	148.0	6 0	696	29.29	311.5	24 0
629	9.80	329.8	42 0	662	34.75	147.6	24 0	697	28.07	311.2	6 0
630	10.50	329.0	42 0	663	33.85	147.6	1	698	27.62	315.9	24 0
631	11.47	328.8	24 0	664	33.10	147.3	24 0	699	25.89	314.8	24 0
632	12.98	326.2	24 0	665	32.04	146.9	24 0	700	24.47	313.8	24 0
633	14.63	326.5	24 0	666	31.21	146.0	24 0				

Table 3, continued.

Shot Number 8126 Shot Point 8108 Deployment 8
 Shot Time (Julian day, hr, min, sec): 232:07:45:00.007

Loc	Dist (km)	Azim (deg)	Tape		Loc	Dist (km)	Azim (deg)	Tape		Loc	Dist (km)	Azim (deg)	Tape	
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601	0.06	228.0	94	0	634	56.09	325.5		9	667	10.09	333.4	24	0
602	0.87	273.3		3	635	56.85	324.5	6	0	668	11.23	337.5	24	0
603	1.66	280.4	24	0	636	57.69	323.5	6	0	669	12.65	334.6	24	0
604	2.41	284.2	24	0	637	59.17	323.8	6	0	670	14.13	331.7		3
605	3.06	295.2		17	638	60.68	322.8	6	0	671	15.70	331.6	24	0
606	4.18	299.3	24	0	639	61.83	321.7	6	0	672	17.07	335.6	24	0/25
607	4.66	309.3	24	0	640	63.23	321.3	6	0	673	18.30	338.2		6
608	2.23	147.7	24	0	641	26.70	333.2		1	674	19.85	339.1		6
609	4.62	141.6	24	0	642	28.24	331.0	6	0	675	21.23	338.4		3
610	7.69	127.3	24	0	643	29.50	331.1	6	0	676	22.72	334.8		6
611	9.80	143.3	24	0	644	30.07	329.0	6	0	677	24.09	334.6		25
612	9.11	92.7	24	0	645	30.95	329.6	6	0	678	25.56	334.3		25
613	20.83	137.1	24	0	646	31.80	329.0	6	0	681	80.78	317.5		1
614	25.11	145.0		6	647	32.68	326.8	6	0	682	79.97	317.9		6
615	29.36	146.7		6	648	33.61	326.9	6	0	683	79.35	317.8		6
616	33.86	136.8		6	649	34.37	325.5	6	0	684	78.47	317.8		6
617	38.78	135.0		6	650	35.20	324.4	6	0	685	77.50	317.8		6
618	43.87	136.8		6	651	36.01	324.2	6	0	686	76.44	318.0		6
619	48.59	136.5		6	652	36.68	325.3	6	0	687	76.08	317.9		25
620	53.87	138.0		6	653	37.44	326.8	6	0	688	75.37	318.5		6
621	43.81	327.3		13	654	38.30	327.0		1	689	74.88	318.0		6
622	44.84	326.9		6	655	39.13	326.8	6	0	690	74.01	318.0		6
623	45.65	326.6		1	656	39.90	326.7	6	0/25	691	72.97	318.0		6
624	46.46	326.7		6	657	40.72	326.2	6	0/25	692	72.16	318.4		25
625	47.34	327.3		1	658	40.99	327.2	6	0/25	693	71.47	318.8		6
626	47.98	327.2		6	659	41.77	327.9		6	694	70.81	319.1		6
627	48.78	327.2		6	660	42.75	327.9		3	695	69.99	319.8		6
628	49.65	327.0		6	661	5.42	314.5	24	0	696	69.46	320.1		6
629	50.51	326.9		6	662	6.04	318.0	24	0	697	68.24	320.1		6
630	51.22	326.8		6	663	6.93	319.5		1	698	68.09	322.0		6
631	52.19	326.8		6	664	7.66	321.6	42	0	699	66.31	321.8		6
632	53.70	326.2		6	665	8.69	323.5	24	0	700	64.85	321.6		6
633	55.35	326.3		6	666	9.51	327.1	24	0					

Table 3, continued.

Shot Number 8127 Shot Point 8101 Deployment 8
 Shot Time (Julian day, hr, min, sec): 233:07:00:00.011

Loc	Dist (km)	Azim (deg)	Tape		Loc	Dist (km)	Azim (deg)	Tape		Loc	Dist (km)	Azim (deg)	Tape	
...	.....	.....	Db	Grade	...	.....	.....	Db	Grade	...	.....	.....	Db	Grade
601	80.76	137.6	6	0/28	634	26.40	120.4		9/18	667	71.15	135.3	6	0
602	80.14	138.0		3	635	25.30	121.8	24	0	668	70.34	134.4	6	0
603	79.49	138.3	6	0	636	24.14	123.3	24	0	669	68.80	134.5	6	0
604	78.81	138.5	6	0	637	22.87	121.3	6	0	670	67.18	134.6		3
605	77.99	138.4		17	638	21.08	122.4	24	0	671	65.67	134.2	6	0
606	76.86	138.5	6	0	639	19.63	124.4	24	0	672	64.77	132.9	24	0/15
607	76.20	138.0	24	0	640	18.16	124.5	24	0	673	63.98	131.8	6	0
608	82.96	137.8	6	0	641	55.53	130.1		1	674	62.73	130.9	6	0
609	85.37	137.8	6	0	642	53.71	130.6	6	0	675	61.41	130.5	6	0
610	88.33	136.7		12	643	52.55	130.0	6	0	676	59.46	131.1	24	0
611	90.51	138.2	6	0	644	51.65	130.9	24	0	677	58.17	130.6	24	0
612	87.39	133.3	6	0	645	50.91	130.3	24	0	678	56.78	130.1	6	0
613	101.57	137.5	6	0	646	50.01	130.3	24	0	681	0.04	266.0		2
614	105.72	139.3		12	647	48.80	131.4	24	0	682	0.94	109.2	88	0
615	109.86	140.0	6	0	648	47.94	131.0	24	0	683	1.50	123.1	24	0
616	114.59	137.3	6	0	649	46.99	131.8	24	0	684	2.36	129.2	24	0
617	119.48	136.7	6	0	650	46.04	132.3	24	0	685	3.32	131.7	62	0
618	124.60	137.3	6	0	651	45.21	132.3	24	0	686	4.41	129.9	62	0
619	129.31	137.2	6	0	652	44.72	131.2	24	0	687	4.74	132.6		25
620	134.60	137.7	6	0	653	44.25	129.7	24	0	688	5.58	125.0	52	0
621	38.32	126.4		13	654	43.46	129.2		1	689	5.96	131.3	48	0
622	37.24	126.3	24	0	655	42.62	129.1	24	0	690	6.82	132.8	48	0
623	36.41	126.2		1	656	41.87	128.9	24	0/25	691	7.86	133.1	48	0
624	35.68	125.6	6	0	657	40.97	129.0	24	0	692	8.71	130.7		25
625	35.05	124.3		1	658	40.95	127.9	24	0	693	9.48	127.9	42	0
626	34.41	124.1	24	0	659	40.38	126.9	24	0	694	10.19	126.8	42	0
627	33.67	123.6	24	0	660	39.48	126.3	24	0	695	11.21	123.2	24	0
628	32.82	123.2	24	0	661	75.39	137.8	6	0	696	11.79	122.6	42	0
629	32.00	122.7	24	0	662	74.76	137.5	6	0	697	12.98	124.0	24	0
630	31.31	122.4	6	0	663	73.88	137.4		1	698	13.96	115.1	24	0
631	30.43	121.6	6	0	664	73.16	137.1	6	0	699	15.44	119.2	24	0
632	28.83	121.3	6	0	665	72.16	136.8	6	0	700	16.73	121.8	24	0
633	27.38	119.7	24	0	666	71.44	136.3	6	0					

Table 3, continued.

Shot Number 8201 Shot Point 8216 Deployment 9
 Shot Time (Julian day, hr, min, sec): 261:06:00:00.014

Loc	Dist (km)	Azim (deg)	Tape		Loc	Dist (km)	Azim (deg)	Tape		Loc	Dist (km)	Azim (deg)	Tape	
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101	48.28	71.2	6		135	27.09	68.3	24	0	169	37.50	75.3	24	0
102	49.65	71.0	6		136	27.86	68.1	24	0	170	38.43	75.9	24	0
103	50.45	71.1	24		137	28.54	69.1	24	0	171	39.04	75.4	24	0
104	51.09	71.2	24		138	29.18	69.1	24	0	172	39.67	74.9	24	0
105	51.85	71.2	24		139	29.79	68.5	24	0	173	41.17	74.5	24	0
106	52.60	71.4	24		140	30.65	68.9	62	0	174	42.17	73.1	24	0
107	53.38	71.5	6		141	30.16	280.9	24		175	42.95	72.3	24	0
108	54.11	71.6	6		142	28.38	281.1			176	43.70	71.8	24	0
109	54.86	71.9			143	26.19	280.2	24		177	44.53	71.6		0
110	55.53	72.1			144	23.93	281.2	24		178	45.11	71.8	6	0
111	56.21	72.7	6		145	22.31	280.8	24		179	45.65	72.3	6	0
112	57.13	72.9	6		146	17.87	280.9			180	46.47	72.2		1
113	57.84	72.8	6		147	20.19	282.7			181	0.10	235.8	82	0
114	58.71	72.4	6		148	15.88	278.1	42		182	0.68	90.8	62	0
115	59.41	72.3	6		149	13.59	281.1	42		183	1.73	78.4	62	0
116	59.44	72.2			150	11.62	283.9	42		184	2.44	93.5		6
117	60.96	72.4			151	10.00	286.2	42		185	3.41	91.4	62	0
118	63.30	74.3			152	9.15	282.2	42		186	3.94	86.1		1
119	65.43	75.4	6		153					187	4.63	86.2	42	0
120	67.78	74.8	6		154	6.68	276.5	42		188	5.43	84.6	42	0
121	16.15	74.8	42	0	155	5.90	283.1	42		189	6.41	87.7	42	0
122	16.69	69.3		0	156	4.50	273.3	42		190	7.15	88.7	42	0
123	17.48	69.6	42	0	157	3.75	261.3			191	8.08	85.7	42	0
124	18.08	68.6	42	0	158	2.91	252.0	42		192	9.00	86.8	42	0
125	18.74	68.4	42	0	159	2.10	241.2	62		193	9.63	85.3	42	0
126	19.75	65.1	42	0	160	1.07	197.9	62		194	10.09	83.0	42	0
127	20.48	64.9		1	161	30.88	69.9	24	0	195	10.78	79.8	42	0
128	21.20	64.8	42	0	162	32.46	72.7	24	0	196	11.27	76.6	42	0
129	22.69	65.4	42	0	163	33.11	72.8		1	197	12.23	78.2		6
130	23.40	66.5	42	0	164	33.98	72.7		1	198	13.14	79.1	42	0
131	24.15	67.3	24	0	165	34.82	72.8	24	0	199	14.66	79.8	42	0
132	24.78	67.3		1	166	35.33	73.7	24	0	200	14.93	77.9	42	0
133	25.63	68.0	24	0	167	35.97	73.7	24	0					
134	26.47	67.8		1	168	36.85	75.0		1					

Table 3, continued.

Shot Number 8202 Shot Point 8220 Deployment 9
 Shot Time (Julian day, hr, min, sec): 261:06:15:01.168

Loc	Dist (km)	Azim (deg)	Tape Db Grade	Loc	Dist (km)	Azim (deg)	Tape Db Grade	Loc	Dist (km)	Azim (deg)	Tape Db Grade
101	11.22	256.8	24	135	32.49	255.8	24 0	169	22.12	247.3	24 0
102	9.88	258.5		136	31.74	256.2	24 0	170	21.26	245.9	24 0
103	9.06	258.3	24	137	31.00	255.4	24 0	171	20.60	246.6	24 0
104	8.42	258.7	24	138	30.36	255.6	24 0	172	19.93	247.2	42 0
105	7.67	259.3	24	139	29.79	256.3	24 0	173	18.41	247.4	42 0
106	6.90	258.8	24	140	28.91	256.0	24 0	174	17.31	250.3	42 0
107	6.12	258.2	42	141	87.12	262.2	6	175	16.52	252.4	42 0
108	5.37	258.0	42	142	85.40	261.9		176	15.77	253.7	42 0
109	4.60	255.2		143	83.49	261.1	6	177	14.94	254.4	42 0
110	3.93	252.8		144	81.22	260.8	6	178	14.35	253.9	42 0
111	3.29	244.2	42	145	79.76	260.3	6	179	13.81	252.1	42 0
112	2.44	235.6	42	146	75.63	259.1		180	12.99	252.6	1
113	1.75	231.3	42	147	77.54	260.2	6	181	59.56	252.6	24 0
114	0.80	234.0	62	148	74.07	258.0	6	182	58.81	252.4	6 0
115	0.16	0.0	82	149	71.66	257.9	6	183	57.75	252.4	6 0
116	0.03	216.5	96	150	69.62	257.7	6	184	57.19	251.7	6
117	1.52	82.6		151	67.98	257.3	6	185	56.25	251.5	6 0
118	4.47	104.7		152	67.53	256.5	6	186	55.64	251.6	1
119	6.92	104.8	42	153				187	54.98	251.4	6 0
120	8.79	93.0	42	154	65.61	255.0	6	188	54.17	251.4	6 0
121	43.33	251.6	24 0	155	64.59	255.3	6	189	53.31	250.8	6 0
122	42.80	253.7	6 0	156	63.68	254.1	6	190	52.65	250.4	6 0
123	42.01	253.7	24 0	157	63.17	253.2		191	51.64	250.5	6 0
124	41.43	254.2	24 0	158	62.37	252.6	6	192	50.80	250.1	24 0
125	40.78	254.4	24 0	159	61.53	252.2	6	193	50.13	250.1	24 0
126	39.94	256.1	24 0	160	60.10	251.8	6	194	49.59	250.4	6 0
127	39.23	256.4	1	161	28.63	255.1	24 0	195	48.80	250.9	6 0
128	38.53	256.6	24 0	162	27.01	252.0	24 0	196	48.24	251.6	6 0
129	37.02	256.7	24 0	163	26.36	251.8	1	197	47.32	251.0	6
130	36.26	256.3	24 0	164	25.49	251.9	1	198	46.45	250.7	24 0
131	35.46	255.9	24 0	165	24.64	251.8	24 0	199	44.97	250.1	0
132	34.83	256.1	1	166	24.17	250.3	24 0	200	44.64	250.7	24 0
133	33.95	255.8	24 0	167	23.52	250.3	24 0				
134	33.14	256.1	1	168	22.72	248.1	1				

Table 3, continued.

Shot Number 8203 Shot Point 8112 Deployment 9
 Shot Time (Julian day, hr, min, sec): 261:06:30:00.008

Loc	Dist (km)	Azim (deg)	Tape Db Grade	Loc	Dist (km)	Azim (deg)	Tape Db Grade	Loc	Dist (km)	Azim (deg)	Tape Db Grade
101	67.83	327.3	6	135	77.16	312.2	6 0	169	68.88	318.0	6 0
102	67.65	328.5		136	76.88	312.7	6 0	170	68.08	318.5	0
103	67.35	329.1		137	76.14	313.0	6 0	171	68.12	319.1	6 0
104	67.20	329.7		138	75.87	313.4	6 0	172	68.12	319.7	6 0
105	67.03	330.3	6	139	75.88	313.9	0	173	67.74	320.9	6 0
106	66.72	330.9	6	140	75.30	314.5	6 0	174	68.29	322.1	6 0
107	66.43	331.5	6	141	121.91	293.2	6	175	68.59	322.8	6 0
108	66.19	332.1	6	142	120.19	293.5		176	68.68	323.5	6 0
109	65.77	332.7		143	117.96	293.5	6	177	68.58	324.2	0
110	65.46	333.3		144	115.85	293.9	6	178	68.25	324.7	6 0
111	64.87	333.8	6	145	114.23	294.0	6	179	67.68	325.0	6 0
112	64.49	334.6	6	146	109.90	294.5		180	67.54	325.7	1
113	64.48	335.2	6	147	112.30	294.6	6	181	92.63	297.0	6 0
114	64.75	336.0	6	148	107.78	294.4	6	182	91.96	297.2	6 0
115	64.76	336.7	6	149	105.75	295.1	6	183	91.22	297.7	6 0
116	64.90	336.7	24	150	103.96	295.6	6	184	90.33	297.6	6
117	64.51	338.0		151	102.44	296.0	6	185	89.50	297.9	6 0
118	62.25	339.9		152	101.47	295.8	6	186	89.19	298.3	1
119	60.87	341.8	24	153				187	88.60	298.5	6 0
120	61.50	344.1	24	154	98.89	295.7	6	188	88.00	298.9	6 0
121	81.21	304.6	6 0	155	98.33	296.2	6	189	87.01	299.0	6 0
122	82.13	305.6	0	156	96.73	296.0	6	190	86.31	299.2	6 0
123	81.61	306.0	6 0	157	95.67	295.7		191	85.73	299.8	6 0
124	81.52	306.5	6 0	158	94.68	295.8	6	192	84.87	300.0	24 0
125	81.24	306.9	0	159	93.79	296.0	6	193	84.48	300.4	6 0
126	81.69	307.9	6 0	160	92.42	296.4	6	194	84.33	300.8	6 0
127	81.41	308.4	1	161	74.75	314.5	0	195	84.16	301.4	6 0
128	81.11	308.8	0	162	72.64	315.0	0	196	84.22	301.9	0
129	80.24	309.7	6 0	163	72.28	315.4	1	197	83.30	302.2	6
130	79.55	310.0	6 0	164	71.93	316.0	1	198	82.50	302.5	6 0
131	78.88	310.4	6 0	165	71.52	316.6	0	199	81.27	303.2	6 0
132	78.60	310.8	1	166	70.76	316.8	6 0	200	81.42	303.6	6 0
133	77.95	311.2	0	167	70.48	317.3	6 0				
134	77.65	311.8	1	168	69.36	317.6	1				

Table 3, continued.

Shot Number 8204 Shot Point 8114 Deployment 9
 Shot Time (Julian day, hr, min, sec): 261:06:45:00.121

Loc	Dist (km)	Azim (deg)	Tape		Loc	Dist (km)	Azim (deg)	Tape		Loc	Dist (km)	Azim (deg)	Tape	
.....	.....	.....	Db	Grade	.....	.....	.....	Db	Grade	.....	.....	.....	Db	Grade
101	18.57	75.8	24		135	2.71	250.1	42	0	169	8.67	99.6	42	0
102	19.92	75.1			136	1.95	253.0	62	0	170	9.69	99.6	42	0
103	20.74	75.2	24		137	1.31	233.2	62	0	171	10.12	96.3	42	0
104	21.38	75.2	24		138	0.70	220.5	62	0	172	10.60	93.5	42	0
105	22.13	75.1	24		139	0.03	167.2	82	0	173	11.96	90.0	42	0
106	22.90	75.4	24		140	0.90	86.2	62	0	174	12.71	84.3	42	0
107	23.68	75.6	6		141	57.56	265.0	6		175	13.37	81.0	42	0
108	24.42	75.7	6		142	55.82	264.6			176	14.06	79.1	42	0
109	25.19	76.3			143	53.86	263.5	6		177	14.87	78.1	24	0
110	25.87	76.6			144	51.57	263.2	6		178	15.46	78.4	42	0
111	26.59	77.6	6		145	50.08	262.5	6		179	16.05	79.7	24	0
112	27.52	77.9	6		146	45.89	260.7			180	16.85	79.0		1
113	28.22	77.6	6		147	47.85	262.4	6		181	29.89	248.6	24	0
114	29.06	76.7	6		148	44.30	258.9	6		182	29.16	248.1	6	0
115	29.76	76.4	6		149	41.88	258.8	6		183	28.10	248.0	6	0
116	29.77	76.1	6		150	39.84	258.4	6		184	27.60	246.5		6
117	31.31	76.4			151	38.20	257.9	6		185	26.69	245.8	6	0
118	33.80	79.7			152	37.74	256.4	6		186	26.06	246.0		1
119	36.03	81.4	6		153					187	25.43	245.5	6	0
120	38.30	79.9	6		154	35.83	253.7			188	24.62	245.1	6	0
121	13.86	241.3	42	0	155	34.81	254.2	6		189	23.84	243.6	24	0
122	13.11	247.6	24	0	156	33.93	251.8	6		190	23.22	242.5	24	0
123	12.32	247.1	42	0	157	33.46	250.1			191	22.21	242.5	24	0
124	11.71	248.4	42	0	158	32.70	249.0	6		192	21.44	241.1	24	0
125	11.05	248.8	42	0	159	31.88	248.2	6		193	20.77	240.9	24	0
126	10.14	255.2	42	0	160	30.49	247.1	6		194	20.19	241.4	24	0
127	9.44	256.4		1	161	1.33	104.1	62	0	195	19.34	242.3	24	0
128	8.74	257.5	42	0	162	3.53	111.8	62	0	196	18.71	243.7	24	0
129	7.23	258.2	42	0	163	4.09	106.8		1	197	17.86	242.0		6
130	6.46	255.8	42	0	164	4.81	100.4		1	198	17.06	240.5	24	0
131	5.67	253.3	42	0	165	5.58	96.7	42	0	199	15.69	238.0	24	0
132	5.04	254.2		1	166	6.29	99.8	42	0	200	15.27	239.4	24	0
133	4.17	251.5		0	167	6.87	97.4	42	0					
134	3.35	254.0		1	168	8.00	100.2		1					

Table 3, continued.

Shot Number 8205 Shot Point 8205 Deployment 9
 Shot Time (Julian day, hr, min, sec): 261:08:00:00.014

Loc	Dist (km)	Azim (deg)	Tape Db Grade	Loc	Dist (km)	Azim (deg)	Tape Db Grade	Loc	Dist (km)	Azim (deg)	Tape Db Grade
101	75.91	82.3	6	135	54.91	85.2	6 0	169	65.94	86.4	6 0
102	77.22	82.0		136	55.61	84.9	0	170	66.93	86.6	0
103	78.04	81.9	24	137	56.41	85.2	6 0	171	67.47	86.2	6 0
104	78.67	81.9	6	138	57.02	85.0	6 0	172	68.02	85.8	6 0
105	79.41	81.8	6	139	57.52	84.6	6 0	173	69.44	85.4	6 0
106	80.19	81.8	6	140	58.41	84.5	6 0	174	70.22	84.4	6 0
107	80.97	81.8	6	141	0.05	284.9	62	175	70.86	83.8	6 0
108	81.72	81.8	6	142	1.74	96.7		176	71.52	83.4	6 0
109	82.51	81.9		143	3.93	105.3	42	177	72.30	83.1	0
110	83.20	81.9		144	6.18	99.3	42	178	72.90	83.1	6 0
111	83.95	82.2	6	145	7.80	100.9	42	179	73.52	83.4	6 0
112	84.90	82.2	6	146	12.24	100.7		180	74.30	83.2	1
113	85.58	82.1	6	147	9.95	97.0	42	181	30.04	100.8	24 0
114	86.37	81.7	6	148	14.27	103.7	24	182	30.78	100.4	24 0
115	87.05	81.6	6	149	16.52	100.5	24	183	31.71	99.5	24 0
116	87.05	81.5	6	150	18.51	98.8	24	184	32.53	100.1	6
117	88.60	81.5		151	20.17	98.0	24	185	33.48	99.7	24 0
118	91.22	82.6		152	20.97	100.1	24	186	33.94	99.0	1
119	93.51	83.1	6	153				187	34.61	98.7	24 0
120	95.73	82.5	6	154	23.45	101.9		188	35.36	98.2	6 0
121	45.18	91.6	24 0	155	24.22	100.1	24	189	36.38	98.4	6 0
122	45.18	89.5	0	156	25.66	102.0	24	190	37.13	98.3	6 0
123	45.95	89.3	24 0	157	26.61	103.4		191	37.96	97.5	6 0
124	46.41	88.7	24 0	158	27.60	103.6	24	192	38.90	97.4	24 0
125	47.01	88.3	0	159	28.52	103.4	24	193	39.47	96.9	24 0
126	47.55	86.6	24 0	160	30.00	102.7		194	39.83	96.2	6 0
127	48.20	86.2	1	161	58.77	84.9	6 0	195	40.36	95.2	6 0
128	48.87	85.9	24 0	162	60.69	86.0	6 0	196	40.65	94.1	24 0
129	50.34	85.5	24 0	163	61.33	85.9	1	197	41.66	94.2	6
130	51.14	85.7	6 0	164	62.16	85.7	1	198	42.59	94.1	24 0
131	51.98	85.8	6 0	165	62.99	85.6	6 0	199	44.11	93.8	24 0
132	52.57	85.5	1	166	63.62	86.0	6 0	200	44.24	93.1	24 0
133	53.47	85.6	0	167	64.24	85.8	6 0				
134	54.24	85.2	1	168	65.27	86.4	1				

Table 3, continued.

Shot Number 8206 Shot Point 8111 Deployment 10
 Shot Time (Julian day, hr, min, sec): 265:06:00:00.008

Loc	Dist (km)	Azim (deg)	Tape		Loc	Dist (km)	Azim (deg)	Tape		Loc	Dist (km)	Azim (deg)	Tape	
...	....	.....	Db	Grade	...	....	.....	Db	Grade	...	....	.....	Db	Grade
101	35.39	294.7	24	0	216	57.05	261.8			250	58.51	281.8	24	
103	33.85	297.2		0	217	58.37	259.1	24		251	56.66	284.3	24	
107	31.60	300.6	24	0	218	61.56	256.4	24		252	53.87	283.0	24	
112	28.17	304.4	24	0	219	64.99	253.8	24		253	53.87	286.4	24	
116	27.38	309.1		1	220	69.62	251.8	24		254	50.54	287.7	24	
121	62.50	273.5	24	0	221	62.38	305.9	6	0	255				
126	60.52	277.4	24	0	222	61.56	305.2	6	0	256	58.93	288.1		
130	57.15	278.9	24	0	223	60.31	303.6	24	0	257	58.93	288.4	24	
134	54.24	280.0	24	0	224	58.01	302.4		0	258	60.97	284.4	24	
139	51.23	281.6	24	0	225	55.43	300.2		0	259	62.94	293.8	24	
161	49.92	281.6	24	0	226	52.10	298.4		0	260	65.61	298.6	24	
164	46.44	281.7		1	227	51.44	294.8		0	261	15.26	258.5	42	0
169	42.58	282.0	24	0	228	47.29	289.6	24	0	262	18.30	263.4	42	0
173	39.58	285.0	24	0	229	44.45	293.1	24	0	263	24.27	269.2	24	0
176	38.58	289.5	24	0	230	46.80	285.8	24	0	264	27.73	271.6	24	0
181	78.10	269.7	24	0	231	42.14	288.6	24	0	265	31.46	272.6	24	0
185	74.61	269.7	24	0	232	34.74	302.3		0	266	38.35	265.7	42	0
190	70.87	269.8	24	0	233	39.97	299.0	24	1	267	35.70	270.7	42	0
195	67.40	271.3	24	0	234	39.66	294.8	24	0	268	35.74	273.6	42	0
201	43.88	272.2	42		235	44.34	298.1	24	0	269	38.30	277.1	42	0
202	46.31	272.0	42		236	47.85	298.5	24	0	270	40.14	280.8		1
203	47.25	272.1	42		237	43.76	303.6	24	0	271	44.73	278.7		0
204	51.03	270.3	24		238	43.65	308.4		1	272	42.31	279.8	24	0
205	51.77	265.7	24		239	43.87	313.6	24	0	286	61.26	268.2		0
206	47.71	265.4	24		240	45.51	319.5	24	0	293	48.59	276.5	24	0
207	42.92	261.8	24		241	76.28	293.8			294	44.04	273.8	24	0
208	43.48	258.0	24		242	73.65	292.2	24		295	51.00	276.6	24	0
209	44.80	254.9			243	69.45	290.6	24		296	54.26	272.1	24	0
210	44.56	251.8	24		244	65.71	289.4	24		297	55.72	275.1	24	6
211	46.51	247.8	24		245	63.57	285.9			298	54.15	277.0	24	0
212	45.87	249.9	24		246	68.28	281.8			299	59.24	272.7		1
213	51.48	255.1			247	62.37	279.8	24		300	68.23	264.8	24	7
214	54.50	267.6	24		248	65.18	276.5	24						
215	56.23	264.7	24		249	70.61	276.4	24						

Table 3, continued.

Shot Number 8207 Shot Point 8218 Deployment 10
 Shot Time (Julian day, hr, min, sec): 265:06:15:00.008

Loc	Dist (km)	Azim (deg)	Tape Db	Grade	Loc	Dist (km)	Azim (deg)	Tape Db	Grade	Loc	Dist (km)	Azim (deg)	Tape Db	Grade
101	11.17	257.4	24	0	216	43.40	234.1			250	36.40	261.6	24	
103	9.01	259.0	42	0	217	45.79	231.8	24		251	33.81	264.4	6	
107	6.07	259.3	42	0	218	49.90	230.5	6		252	31.66	260.6	24	
112	2.36	237.6	62	0	219	54.23	229.2	6		253	30.51	266.1	24	
116	0.09	2.8	1		220	59.43	228.9	6		254	26.96	266.0	24	
121	43.27	251.8	24	0	221	35.12	303.4	24	0	255				
126	39.88	256.3	6	0	222	34.35	302.0	6	0	256	34.72	272.0		
130	36.21	256.5	6	0	223	33.21	299.1	24	0	257	34.72	272.1	24	
134	33.09	256.3	24	0	224	31.03	296.4	24	0	258	37.87	266.7	24	
139	29.74	256.5	24	0	225	28.73	291.6	24	0	259	37.26	282.6		
161	28.58	255.3	24	0	226	25.72	287.1	24	0	260	39.04	291.3	24	
164	25.43	252.1	1		227	25.84	279.6	24	0	261	21.18	162.6	24	0
169	22.05	247.6	24	0	228	23.35	266.5	24	0	262	19.51	170.8	24	0
173	18.34	247.7	42	0	229	19.65	270.5	24	0	263	17.78	189.6	42	0
176	15.71	254.1	42	0	230	24.19	259.3	24	0	264	17.62	201.4	42	0
181	59.50	252.7	6	0	231	19.05	258.6	24	0	265	18.78	212.7	42	0
185	56.19	251.6	6	0	232	8.25	279.4	24	0	266	26.29	220.1	24	0
190	52.59	250.5	6	0	233	13.89	278.9	1		267	22.12	220.6	42	0
195	48.73	251.0	6	0	234	14.77	267.7	42	0	268	20.78	223.8	42	0
201	27.39	235.4	24		235	18.24	281.6	42	0	269	20.86	233.3	42	0
202	29.48	238.0	24		236	21.57	285.0	24	0	270	20.60	241.8	1	
203	30.22	239.1	24		237	16.75	294.7	24	0	271	25.21	245.5	24	0
204	34.25	240.2	24		238	16.34	307.4	1		272	22.76	243.8	24	0
205	36.98	235.1	24		239	16.78	320.9	24	0	286	44.30	244.4	0	
206	33.65	231.3	24		240	19.30	334.3	24	0	293	29.46	246.4	24	0
207	31.54	222.1	24		241	50.42	285.4			294	26.80	237.7	24	0
208	33.80	218.9	24		242	48.15	282.6	6		295	31.54	248.7	6	0
209	36.29	217.2			243	44.37	279.2	24		296	36.33	245.0	6	0
210	37.59	213.9	24		244	41.00	276.3	6		297	36.38	250.2	6	6
211	41.05	211.9	6		245	39.90	270.1			298	34.17	251.9	6	0
212	39.52	213.4	24		246	45.70	265.8			299	40.55	249.1	1	
213	41.67	223.0			247	40.76	260.5	6		300	52.22	243.3	6	7
214	38.48	239.5	6		248	44.62	257.1	24						
215	41.34	237.0	42		249	49.82	259.0	6						

Table 3, continued.

Shot Number 8208 Shot Point 8114 Deployment 10
 Shot Time (Julian day, hr, min, sec): 265:06:30:00.012

Loc	Dist (km)	Azim (deg)	Tape		Loc	Dist (km)	Azim (deg)	Tape		Loc	Dist (km)	Azim (deg)	Tape	
----	-----	-----	Db	Grade	----	-----	-----	Db	Grade	----	-----	-----	Db	Grade
101	18.57	75.8	24	0	216	19.56	198.3			250	7.26	282.4	42	
103	20.74	75.2	6	0	217	22.53	198.0	24		251	5.96	307.3	42	
107	23.68	75.6	6	0	218	26.60	200.9	24		252	2.89	307.0	42	
112	27.52	77.9	6	0	219	30.97	202.9	24		253	5.08	342.5	42	
116	29.77	76.1		1	220	35.86	206.0	6		254	5.45	21.7	42	
121	13.86	241.3	42	0	221	26.27	358.9	6	0	255				
126	10.14	255.2	42	0	222	25.12	359.3	6	0	256	10.02	324.6		
130	6.46	255.8	42	0	223	23.05	359.5	24	0	257	10.02	324.6	42	
134	3.35	254.0	42	0	224	20.76	2.9	24	0	258	10.08	297.9	42	
139	0.03	167.2	42	0	225	17.64	7.0	24	0	259	16.78	333.5		
161	1.33	104.1	42	0	226	15.11	16.5	24	0	260	22.36	340.3	24	
164	4.81	100.4		1	227	11.72	16.8	42	0	261	37.70	110.4	6	0
169	8.67	99.6	42	0	228	7.87	45.3	42	0	262	34.34	110.8	6	0
173	11.96	90.0	42	0	229	11.68	52.3	42	0	263	28.04	112.0	6	0
176	14.06	79.1	24	0	230	5.70	64.6	42	0	264	24.42	112.6	6	0
181	29.89	248.6	6	0	231	10.73	72.7	42	0	265	20.78	115.1	6	0
185	26.69	245.8	24	0	232	22.37	68.1	6	0	266	17.82	137.5	24	0
190	23.22	242.5	24	0	233	17.71	58.9		1	267	17.56	124.0	24	0
195	19.34	242.3	24	0	234	15.51	65.7	24	0	268	16.64	118.8	24	0
201	10.72	143.3	42		235	15.31	46.0	24	0	269	13.41	114.2	24	0
202	9.56	155.5	42		236	14.88	32.7	24	0	270	11.13	104.5		1
203	9.11	160.6			237	19.55	44.3	6	0	271	6.96	120.4	42	0
204	10.12	184.4	42		238	23.20	43.2		1	272	9.06	110.0	42	0
205	14.32	185.3	42		239	27.10	42.4	24	0	286	16.47	221.7		0
206	14.39	169.0	42		240	31.83	40.0	6	0	293	5.24	158.2	42	0
207	18.21	154.5	24		241	28.30	315.7			294	9.69	139.5	42	0
208	20.88	158.1	42		242	25.08	313.7	24		295	4.54	185.6	24	0
209	23.08	162.1			243	20.44	313.1	24		296	9.32	205.3	24	0
210	25.53	161.7	24		244	16.44	313.8	24		297	7.59	224.0	24	6
211	28.84	165.3	24		245	13.02	302.3			298	5.14	223.4	42	0
212	27.06	164.4	24		246	17.03	281.9			299	11.70	229.7		1
213	23.57	178.5			247	11.28	270.7	42		300	24.25	226.7	24	7
214	13.30	198.3	42		248	14.88	258.0							
215	16.61	200.0	42		249	20.15	262.4	24						

Table 3, continued.

Shot Number 8209 Shot Point 8219 Deployment 10
 Shot Time (Julian day, hr, min, sec): 265:08:15:00.016

Loc	Dist (km)	Azim (deg)	Tape		Loc	Dist (km)	Azim (deg)	Tape		Loc	Dist (km)	Azim (deg)	Tape	
....
101	34.24	18.3	6	0	216	16.40	305.0			250	32.85	334.1	24	
103	35.61	21.1	6	0	217	15.70	294.7	24		251	33.79	339.2	24	
107	37.29	24.9	6	0	218	17.06	280.6	24		252	31.22	342.1	24	
112	39.02	30.2	6	0	219	19.34	268.4	6		253	33.98	345.0	24	
116	41.21	31.7		1	220	23.40	259.6	6		254	33.44	351.0	6	
121	28.85	317.7	24	0	221	54.78	351.9	6	0	255				
126	30.61	326.1	24	0	222	53.62	351.9	6	0	256	38.44	340.1		
130	29.67	332.9	24	0	223	51.56	351.7	6	0	257	38.44	340.1	6	
134	29.01	338.8	24	0	224	49.10	352.8	6	0	258	36.48	333.7	24	
139	28.87	345.4	24	0	225	45.77	353.6	6	0	259	45.46	341.1		
161	28.29	347.8		0	226	42.56	356.0	6	0	260	51.21	343.2	24	
164	27.22	354.6		1	227	39.38	354.4	6	0	261	31.71	62.2	6	0
169	26.54	2.8	24	0	228	33.54	357.2	6	0	262	29.38	57.6	6	0
173	28.35	9.5	24	0	229	35.16	3.2	24	0	263	25.58	47.0	6	0
176	31.31	12.1	24	0	230	30.49	356.0	6	0	264	24.02	39.4	6	0
181	39.06	296.0	6	0	231	31.29	5.5	6	0	265	22.35	31.1	6	0
185	35.93	298.3	24	0	232	38.72	20.4	6	0	266	15.57	17.8	24	0
190	32.81	301.8	6	0	233	37.93	12.0		1	267	19.56	21.9	24	0
195	30.93	307.9	6	0	234	35.02	11.3	6	0	268	21.23	20.1	42	0
201	19.39	357.4	42		235	38.78	5.6	6	0	269	23.00	12.4	24	0
202	19.55	350.2	42		236	40.49	1.1		0	270	25.43	7.9		1
203	19.83	347.6	42		237	42.43	8.7	6	0	271	24.48	357.0	24	0
204	19.61	335.8	24		238	45.69	10.9	6	1	272	24.90	2.9	24	0
205	16.19	327.9	24		239	49.22	12.9	6	0	286	24.05	310.7	24	0
206	14.57	341.8	42		240	53.98	14.2	6	0	293	23.72	347.0	24	0
207	11.54	2.7	42		241	55.29	330.8			294	20.63	357.3	24	0
208	8.61	3.4	42		242	51.93	330.7	6		295	24.69	341.8	24	0
209	6.00	358.1			243	47.45	332.1	6		296	22.56	330.1	24	0
210	3.80	11.3	42		244	43.76	334.1	6		297	25.78	330.9		6
211	0.08	27.0	94		245	39.42	332.4	6		298	26.54	336.0	24	0
212	1.91	180.0	62		246	39.55	322.8			299	26.06	321.6		1
213	8.02	303.4			247	33.70	326.6	24		300	27.40	294.5	24	7
214	19.16	323.3	24		248	33.10	318.8	24						
215	17.93	313.6	24		249	37.20	312.9	24						

Table 3, continued.

Shot Number 8210 Shot Point 8217 Deployment 10
 Shot Time (Julian day, hr, min, sec): 265:08:30:00.015

Loc	Dist (km)	Azim (deg)	Tape		Loc	Dist (km)	Azim (deg)	Tape		Loc	Dist (km)	Azim (deg)	Tape	
...
101	28.57	139.6	24	0	216	45.24	187.2			250	25.62	194.9	24	
103	29.41	135.7	24	0	217	48.18	187.7	24		251	23.10	190.6	24	
107	31.09	131.1	24	0	218	51.95	190.0	24		252	24.64	184.2	24	
112	34.26	126.9	24	0	219	56.05	191.9	24		253	21.50	182.7	42	
116	35.11	123.1		1	220	60.49	194.6	24		254	21.40	173.3	24	
121	34.97	199.5	24	0	221	0.05	171.6	82	0	255				
126	30.36	197.8	24	0	222	1.21	170.7	62	0	256	18.90	196.3		
130	28.49	191.7	24	0	223	3.28	174.7	42	0	257	18.90	196.3	42	
134	27.38	185.7	24	0	224	5.79	164.4	42	0	258	23.17	201.3	42	
139	26.35	178.9	24	0	225	9.19	163.3		0	259	13.29	211.8		
161	26.70	176.2		0	226	12.76	158.0	42	0	260	8.79	233.2	42	
164	27.68	169.1		1	227	15.59	165.5	42	0	261	53.30	137.8	6	0
169	29.21	161.9	24	0	228	21.66	163.6	24	0	262	50.47	139.8	6	0
173	29.12	154.7	24	0	229	21.51	153.0	42	0	263	45.37	144.3	24	0
176	27.65	148.8	24	0	230	24.53	166.7	24	0	264	42.50	147.2	24	0
181	46.18	216.3	24	0	231	25.50	155.1	24	0	265	40.09	151.2	24	0
185	44.23	212.6	24	0	232	27.83	130.2	24	0	266	41.39	162.4	24	0
190	42.13	208.5	24	0	233	23.25	137.6		1	267	39.14	157.4	24	0
195	39.02	205.2	24	0	234	24.74	143.7	42	0	268	37.50	156.3	24	0
201	35.59	168.8	24		235	19.46	143.7	42	0	269	34.26	158.2	24	0
202	35.30	172.7	24		236	16.22	148.2	24	0	270	31.20	158.8		1
203	35.09	174.2	24		237	18.78	131.1	24	0	271	30.54	167.7	24	0
204	36.40	180.4	24		238	18.89	119.9	24	1	272	30.76	163.0	24	0
205	40.59	181.2	24		239	19.80	108.5	24	0	286	40.01	195.1	24	0
206	40.57	175.4	24		240	21.04	95.2	24	0	293	31.27	175.5	24	0
207	43.56	169.0	24		241	20.19	252.5			294	34.36	168.6	24	0
208	46.44	169.7	24		242	19.81	243.0	42		295	30.84	179.9	24	0
209	48.88	171.1			243	19.00	229.4	42		296	34.91	185.7	24	0
210	51.27	170.4	24		244	18.77	217.3	42		297	32.13	188.5		6
211	54.78	171.8	24		245	22.03	208.5	42		298	30.20	185.7	24	0
212	52.95	171.5	24		246	27.96	215.3			299	34.92	194.0		1
213	49.89	178.7			247	28.30	202.4	42		300	46.24	201.8	24	7
214	39.12	185.4	24		248	32.60	205.5	24						
215	42.24	187.1	24		249	34.91	213.9	24						

Table 3, continued.

Shot Number 8211 Shot Point 8216 Deployment 10
 Shot Time (Julian day, hr, min, sec): 265:08:45:00.010

Loc	Dist (km)	Azim (deg)	Tape Db Grade	Loc	Dist (km)	Azim (deg)	Tape Db Grade	Loc	Dist (km)	Azim (deg)	Tape Db Grade
101	48.28	71.2	24 0	216	22.94	109.4		250	24.10	58.8	42
103	50.45	71.1	24 0	217	23.32	116.8	42	251	27.18	57.6	42
107	53.38	71.5	24 0	218	23.02	127.3	42	252	28.38	63.5	42
112	57.13	72.9	24 0	219	23.67	138.2	42	253	30.56	58.9	42
116	59.44	72.2	1	220	24.54	150.4	42	254	33.75	61.7	24
121	16.15	74.8	42 0	221	46.04	36.1	24 0	255			
126	19.75	65.1	42 0	222	45.24	37.1	24 0	256	29.04	49.0	
130	23.40	66.5	24 0	223	43.68	38.9	24 0	257	29.04	48.9	42
134	26.47	67.8	24 0	224	42.75	42.2	24 0	258	24.45	50.2	42
139	29.79	68.5	24 0	225	41.20	46.3	24 0	259	32.85	37.8	
161	30.88	69.9	0	226	40.84	51.4	24 0	260	37.76	32.1	42
164	33.98	72.7	1	227	38.17	54.5	24 0	261	63.12	91.9	24 0
169	37.50	75.3	24 0	228	37.15	63.6	24 0	262	59.86	91.1	24 0
173	41.17	74.5	24 0	229	41.14	63.9	24 0	263	53.75	89.4	24 0
176	43.70	71.8	24 0	230	35.48	67.8	24 0	264	50.31	88.1	24 0
181	0.10	235.8	82 0	231	40.50	69.5	24 0	265	46.61	87.3	24 0
185	3.41	91.4	42 0	232	52.16	68.2	6 0	266	39.85	93.1	42 0
190	7.15	88.7	42 0	233	47.35	64.8	1	267	42.33	88.4	42 0
195	10.78	79.8	42 0	234	45.29	67.4	24 0	268	42.42	86.0	42 0
201	34.23	86.0	42	235	44.32	60.8	24 0	269	40.34	82.2	42 0
202	31.79	85.9	42	236	42.74	56.6	0	270	39.37	78.0	1
203	30.87	85.6	42	237	48.28	58.8	6 0	271	34.54	77.5	42 0
204	26.99	88.2	42	238	51.71	57.3	6 1	272	37.08	77.7	42 0
205	26.64	97.2	42	239	55.41	55.9	24 0	286	16.86	94.7	42 0
206	30.66	95.9	42	240	59.71	53.6	24 0	293	30.29	78.4	42 0
207	36.02	98.7	42	241	32.11	14.2		294	34.22	83.9	24 0
208	36.56	103.3	42	242	29.75	18.6	24	295	28.03	76.7	42 0
209	36.57	107.5		243	27.92	27.1	42	296	23.90	84.0	42 0
210	38.21	110.3	42	244	27.31	35.3	42	297	23.11	76.3	6
211	39.01	115.7	24	245	24.44	43.0	42	298	25.25	73.4	42 0
212	38.21	113.2	24	246	18.13	37.5		299	19.11	79.9	1
213	31.07	113.9		247	19.80	56.1	42	300	11.64	119.6	42 7
214	23.64	94.1	42	248	15.30	59.4	42				
215	22.57	102.0	42	249	11.29	43.3	42				

Table 3, continued.

Shot Number 8212 Shot Point 8203 Deployment 11
 Shot Time (Julian day, hr, min, sec): 281:06:30:00.007

Loc	Dist (km)	Azim (deg)	Tape		Loc	Dist (km)	Azim (deg)	Tape		Loc	Dist (km)	Azim (deg)	Tape	
...	.....	.....	Db	Grade	...	.....	.....	Db	Grade	...	.....	.....	Db	Grade
85	29.68	312.8	24	0	332	55.62	323.7	6	0/12	365	14.32	152.0	24	0
87	28.92	323.8		1	333	57.19	323.9	6	0/12	366	15.89	151.6	6	0
88	29.81	326.7	6	0	334	58.76	324.7	6	0/12	367	17.38	148.7	6	0
302	13.91	315.1	6	0	335	59.82	325.7	6	0/12	368	19.04	147.8		1
303	35.91	299.9		2	336	61.39	326.6	6	0/12	369	20.53	145.4	24	0
304	29.99	283.4	6	0	337	62.78	327.3		1	370	21.98	143.6	24	0
305	19.68	277.2	24	0	338	64.09	327.6	6	0/12	371	24.24	141.0	24	0
306	8.42	156.0		2	339	65.87	328.5	6	0/12	372	25.04	143.7	6	0
307	6.60	156.3	24	0	340	66.94	329.5	42	0/12	373	26.42	144.0	6	0/12
308	4.83	149.1		1	341	18.39	325.7		1	374	28.21	142.1	6	0
309	3.55	156.4		1	342	19.46	325.6	24	0	375	29.91	143.0	6	0
310	2.13	147.0		1	343	20.63	323.0	24	0	376	31.76	141.6	6	0
311	0.31	182.6	94	0	344	22.28	322.6	24	0	377	32.78	142.1	6	0
312	0.91	339.7	24	0	345	23.36	322.5	6	0	378	34.76	141.0	6	0
313	1.88	340.6	24	0	346	25.49	321.9		26	379	36.38	140.9	6	0
314	3.54	347.2	24	0	347	27.12	322.8	6	0	380	37.90	141.0	6	0
315	4.88	335.2		2	348	28.77	321.9	6	0	381	22.40	303.1	6	0
316	6.40	337.6		1	349	30.40	321.5	6	0	382	13.14	292.1	6	0
317	7.87	333.0		2	350	32.41	323.4	6	0	383	7.06	310.7	42	0
318	9.74	332.4		2	351	33.67	322.4	6	0/8	384	50.27	286.0		1
319	10.68	327.7	24	0	352	35.29	322.0	6	0	389	24.10	23.4	6	0
320	12.39	321.8	24	0/13	353	36.64	323.3	6	0	390	24.98	340.3		1
321	41.46	321.4	6	0/12	354	38.01	322.2	6	0	391	28.19	359.3	6	0
322	43.23	321.6	6	0/12	355	31.14	311.9	6	0	392	40.43	320.7	6	0
323	44.78	319.2	42	0/12	356	31.79	309.8	6	0	393	16.32	325.1	6	0
324	46.22	318.7	24	0/12	357	31.86	307.5	24	0	394	17.63	323.4	24	0
325	47.72	319.9	6	0/12	358	32.23	305.2	24	0	395	17.00	320.5	24	0
326	49.75	320.6		1	359	31.74	300.5	6	0	396	16.84	316.4	24	0
327	51.26	321.5		1	360	31.98	299.1		1	397	17.25	313.0		1
328	52.69	319.4	6	0/12	361	19.84	279.5	6	0	398	15.77	312.2		1
329	53.47	321.6	6	0/12	362	9.54	153.2	24	0	399	17.87	310.6		1
330	52.79	322.4	6	0/12	363	11.60	153.4	24	0	400	18.50	309.0		1
331	54.12	322.9	6	0/12	364	12.62	152.5	24	0	999	16.97	129.8	42	0

Table 3, continued.

Shot Number 8213 Shot Point 8215 Deployment 12
 Shot Time (Julian day, hr, min, sec): 284:11:00:00.011

Loc	Dist (km)	Azim (deg)	Tape Db Grade	Loc	Dist (km)	Azim (deg)	Tape Db Grade	Loc	Dist (km)	Azim (deg)	Tape Db Grade
425	22.80	319.0	24	632	34.76	319.4	0	660	23.71	319.3	
445	51.16	313.0	6 0	633	36.39	319.9	0	670	5.83	174.9	62 9
455	59.53	311.2	6 0	634	37.21	318.9	0	671	4.45	183.2	62 0
459	62.74	311.7	6 0	635	38.08	317.5	0	673	1.33	162.2	2
481	6.36	169.8	62 0	636	39.05	316.1	0	674	0.32	23.1	82 0
483	5.19	180.8	62 0	637	40.48	316.9	0	675	1.60	338.3	6 0
485	3.64	0.0	62 0	638	42.10	315.7	0	676	3.37	313.1	62 0
486	2.71	175.7	82 0	639	43.39	314.4	0	677	4.70	318.2	62 0
487	1.98	177.9	82 0	640	44.83	314.0	0	678	6.15	321.1	1
489	0.56	155.1	82 0	641	7.38	319.0	42	681	62.86	311.3	6 0
490	0.04	320.1	2	642	9.14	314.8		682	61.96	311.7	6 0
492	0.87	328.1	6 0	643	10.34	317.1	42	683	61.34	311.5	6 0
494	2.30	320.8	82 0	644	11.18	312.3		684	60.47	311.4	6 0
496	4.03	316.6	62 0	645	11.95	314.9	42	686	58.43	311.4	6 0
498	5.30	323.5	62 0	646	12.85	314.5	42	688	57.29	311.9	6 0
500	6.78	317.0	62 0	647	14.03	310.4	42	689	56.87	311.3	6 0
621	24.84	318.6	0	648	14.90	311.8	42	690	56.02	311.1	6 0
622	25.91	318.2	6 0	649	15.86	309.4	42	691	54.97	311.1	6 0
623	26.74	318.0	6 0	650	16.83	308.1	24	692	54.12	311.4	6 0
624	27.53	318.5	6 0	651	17.66	308.4	24	693	53.36	311.9	6 0
625	28.33	319.7	6 0	652	18.11	311.2	24	694	52.68	312.2	1
626	28.98	319.6	0	653	18.63	314.7	24	695	51.75	313.0	0
627	29.78	319.8	0	654	19.45	315.6	24	697	49.97	313.2	1
628	30.66	319.8	1	655	20.30	315.6	24	698	49.55	315.8	6 0
629	31.52	319.9	0	656	21.06	315.8	24	699	47.83	315.2	6 0
630	32.23	319.8	0	657	21.94	315.3	24	700	46.40	314.7	6 0
631	33.20	320.0	0	658	22.07	317.3	24				

Table 3, continued.

Shot Number 8214 Shot Point 8202 Deployment 13
 Shot Time (Julian day, hr, min, sec): 287:06:30:00.016

Loc	Dist (km)	Azim (deg)	Tape Db Grade	Loc	Dist (km)	Azim (deg)	Tape Db Grade	Loc	Dist (km)	Azim (deg)	Tape Db Grade
301	6.02	90.4	42 0	335	42.49	332.8	24 0	369	38.58	137.5	24 0
302	4.85	111.1	6 6	336	44.15	333.7	24 0	370	40.10	136.8	24 0
303	17.93	290.4	24 0	337	45.64	334.5	1	371	42.46	135.7	24 0/9
304	15.55	252.4	24 0	338	46.98	334.8	24 0	372	43.14	137.3	24 0
305	10.51	209.4	42 0	339	48.87	335.6	6 0/12	373	44.50	137.7	6 0
306	26.23	137.3	24 0	340	50.08	336.9	24 0/12	374	46.37	136.8	24 0
307	24.50	136.0	6	341	5.36	47.9	1	375	48.02	137.6	24 0
308	23.04	133.0	24 0	342	5.55	36.7	62 0	376	49.93	136.8	6 0
309	21.66	133.2	24 0	343	5.22	21.4	62 0	377	50.92	137.3	6 0
310	20.49	130.7	24 0	344	6.14	7.4	24 0	378	52.94	136.8	6 0
311	18.64	129.6	24 0	345	6.92	0.7	42 0	379	54.57	136.8	1
312	17.67	127.4	1	346	8.57	350.6	42 0	380	56.08	136.9	6 0/12
313	16.88	125.5	24 0	347	10.19	348.2	42 0	381	4.48	277.7	42 0
314	15.82	120.9	42 0	348	11.54	342.6	42 0	382	7.00	161.9	24 0
315	14.23	120.2	42 0	349	13.03	339.4	42 0	383	11.39	127.8	24 0
316	13.19	115.4	1	350	15.25	340.8	1	384	34.06	273.7	24 0
317	11.71	113.0	1	351	16.29	337.4	24 0	385	0.93	252.2	24 0
318	10.27	106.7	42 0	352	17.81	335.4	24 0	386	2.19	255.0	82 0
319	9.01	106.6	62 0	353	19.31	336.8	24 0	387	2.77	257.3	82 0
320	6.95	105.5	24 0	354	20.49	334.0	1	388	3.57	259.0	62 0
321	23.78	330.9	24 0	355	12.75	316.0	6 0	389	26.12	66.2	24 0
322	25.54	330.5	24 0	356	13.35	310.7	42 0	390	13.31	26.4	3
323	26.82	326.1	24 0	357	13.42	305.3	17	391	21.70	40.1	3
324	28.20	324.9	24 0	358	13.87	300.1	42 0	392	22.68	330.1	3
325	29.80	326.4	3	359	13.77	288.9	42 0	393	5.31	70.3	3
326	31.90	327.2	3	360	14.16	286.0	42 0	394	4.60	56.3	3
327	33.49	328.2	3	361	9.83	212.0	1	395	3.84	66.7	3
328	34.71	324.8	24 0	362	27.43	137.1	24 0	396	2.80	77.7	3
329	35.69	328.0	3	363	29.40	138.3	24 0	397	1.74	84.4	3
330	35.11	329.3	24 0	364	30.45	138.4	24 0	398	2.85	110.9	3
331	36.49	329.8	24 0	365	32.12	138.9	24 0	399	0.76	88.8	3
332	38.06	330.6	24 0	366	33.67	139.3	24 0	400	0.05	297.9	3
333	39.65	330.7	24 0	367	35.31	138.4	1				
334	41.30	331.5	6 0	368	36.98	138.4	24 0				

Table 3, continued.

Shot Number 8215 Shot Point 8205 Deployment 14
 Shot Time (Julian day, hr, min, sec): 292:11:00:00.004

Loc	Dist (km)	Azim (deg)	Tape		Loc	Dist (km)	Azim (deg)	Tape		Loc	Dist (km)	Azim (deg)	Tape	
....	.....	.....	Db	Grade	....	.....	.....	Db	Grade	....	.....	.....	Db	Grade
501	30.46	190.1	24	0	535	7.54	163.4	42	0	569	39.42	62.7	24	0
502	33.17	192.0	24	0	536	9.65	160.8	42	0	570	41.84	62.7	24	0
503	33.72	195.8		1	537	4.62	186.8	62	0	571	43.94	62.4		0
504	36.00	197.5	6	0	538	6.55	203.4	42	0	572	12.55	120.1	42	0
505	23.82	191.1	24	0	539	9.29	195.6	42	0	573	16.30	118.2	42	0
506	21.77	192.6		1	540	12.95	197.9	42	0	574	18.80	122.7	42	0
507	18.84	194.1	42	0	541	7.82	313.6		1	575	24.38	117.6	42	0
508	16.22	196.5	42	0	542	9.88	310.0	42	0	576	26.28	118.1	42	0
509	21.87	183.6	24	0	543	12.51	312.4	42	0	577	29.71	119.5	42	0
510	22.50	176.7	24	0	544	14.65	305.6		1	578	32.76	122.9	24	0
511	21.55	169.4		1	545	17.11	304.3	24	0	579	36.03	120.1		0
512	21.60	164.9	24	0	546	16.72	295.7	24	0	580	39.10	119.8		1
513	25.22	167.7	42	0	547	19.42	301.9		1	581	9.73	120.9	42	0
514	28.55	165.3	24	0	548	22.03	300.4	24	0	582	2.57	24.2	24	0
515	25.44	160.1	24	0	549	14.14	291.9	24	0	583	12.03	328.9	42	0
516	26.70	153.6	42	0	550	24.56	292.7		1	584	17.86	331.7		1
517	26.27	147.2		3	551	27.60	292.0	24	0	585	15.21	338.2		6
518	31.43	164.5		3	552	30.76	293.2	24	0	586	22.24	333.2	24	0
519	34.20	164.7	42	0	553	32.22	292.4	24	0	587	19.54	342.1	24	0
520	38.33	164.9	6	0	554	40.48	290.8	24	0	588	22.01	342.6		2
521	19.83	232.3	24	0	555	25.80	342.9		1	589	23.24	352.0	24	0
522	23.27	235.6	24	0	556	28.41	344.2	24	0	590	23.13	2.3	24	0
523	26.36	233.5	24	0	557	31.09	345.3	24	0	591	11.14	14.9	42	0
524	29.68	229.4	24	0	558	33.00	342.8	24	0	592	8.07	24.5	42	0
525	32.36	223.8	24	0	559	38.26	346.1	24	0	593	15.47	14.6	6	0
526	35.23	223.8	24	0	560	39.51	343.4	24	0	594	18.19	18.2	42	0
527	15.91	223.7	42	0	561	21.38	59.5	24	0	595	24.55	24.6	24	0
528	13.61	225.2	42	0	562	23.25	64.2	24	0	596	29.90	24.1	6	0
529	10.74	232.2	42	0	563	18.15	63.9		1	597	32.02	22.9	6	0
530	9.54	274.0	42	0	564	13.93	75.2		1	598	33.34	20.5	24	0
531	11.56	288.9	42	0	565	27.85	67.2	24	0	599	34.78	20.3		1
532	7.53	223.5		0	566	30.92	65.8	24	0	600	34.87	26.0	6	0
533	5.21	229.6	62	1	567	33.88	63.3	24	0					
534	0.09	262.3	94	0	568	36.51	63.5	6	0					

Table 3, continued.

Shot Number 8216 Shot Point 8201 Deployment 15
 Shot Time (Julian day, hr, min, sec): 311:07:30:00.008

Loc	Dist (km)	Azim (deg)	Tape		Loc	Dist (km)	Azim (deg)	Tape		Loc	Dist (km)	Azim (deg)	Tape	
....	.....	.....	Db	Grade	....	.....	.....	Db	Grade	....	.....	.....	Db	Grade
69	43.93	137.4	6	1	323	7.91	140.4		28	358	22.86	159.4	24	0
70	34.39	135.4	6	0	324	6.50	144.5	62	0	359	24.90	163.6		1
71	20.62	2.3	24	0	325	4.97	135.2	62	0	360	25.28	165.3	24	0
72	23.09	357.4	6	0	326	3.12	119.8	62	0	362	61.99	141.3	6	0/12
73	26.16	355.1	24	0	327	2.33	87.6	82	0	363	63.99	141.7	6	0/12
74	27.91	353.9	6	0	328	0.01	301.5	94	0	364	65.04	141.7	6	0/12
75	30.63	353.9	24	0	329	2.16	28.9	82	0	365	66.73	141.8	6	0/12
76	0.66	43.0	82	0	330	2.76	48.4	82	0	366	68.29	142.0	6	0/12
77	23.90	144.6	6	0	331	3.55	27.0	62		367	69.89	141.5	6	0/12
78	23.30	141.4	24	0	332	4.97	15.0		1	368	71.57	141.4		1
79	23.11	138.9	6	0	333	6.24	5.1			369	73.13	140.9	6	0/12
80	23.84	131.9	6	0	334	7.95	2.0		1	370	74.62	140.4	6	0/12
81	24.24	125.7		0/6	335	9.44	3.3	42		371	76.92	139.7	6	0/12
98	33.01	153.4	6	0	336	11.21	1.9		2	372	77.67	140.5	6	0/12
303	22.35	171.7		0	337	12.83	1.4		1	373	79.04	140.7	6	0/12
304	33.47	171.0	6	0	338	14.12	359.6	42		374	80.87	140.1	6	0/12
305	40.34	158.3	6	0	339	16.14	359.1	24		375	82.56	140.5	6	0/12
306	60.80	141.4	6	0	340	17.69	0.8	24		376	84.43	140.0	6	0/12
307	59.03	141.0	6	0	342	33.39	135.6	6	0	377	85.44	140.2	6	0/12
308	57.44	140.0		1	343	32.12	136.9		3	378	87.43	139.8	6	0/12
309	56.09	140.2		1	344	30.46	136.9	24	0	379	89.06	139.8	6	0/12
310	54.80	139.5	6	0	345	29.37	136.8	24	0	380	90.58	139.8	6	0/12
311	52.91	139.4	6	0	346	27.24	136.8		6	382	41.44	147.5	6	0
312	51.83	138.8	6	0	347	25.65	135.7	24	0	383	45.71	140.5	6	0
313	50.93	138.4	6	0	348	23.97	136.3	24	0	384	29.69	208.0	6	0
314	49.58	137.3		6	349	22.33	136.3	24	0	389	47.34	112.0	6	0
315	48.00	137.6		6	350	20.48	132.9	24	0	390	30.67	122.3	6	0
316	46.64	136.7		6	351	19.13	134.0	24	0	391	35.92	109.0	6	0
317	45.07	136.8	6	0	352	17.49	134.0	24	0	392	12.29	134.9	24	0
318	43.24	136.3	6	0	353	16.30	130.5	24	0	394	35.12	137.2	6	0
319	42.14	137.1	6	0	354	14.83	132.0		6	395	35.68	138.7	6	0
320	40.31	138.4	6	0	355	22.19	149.8	24	0	396	35.88	140.6	6	0
321	11.33	131.9		1	356	22.00	153.2	24	0					
322	9.62	129.4	24	0	357	22.50	156.2	24	0					

Table 3, continued.

Shot Number 8501 Shot Point 8517 Deployment 16
 Shot Time (Julian day, hr, min, sec): 255:06:30:00.012

Loc	Dist (km)	Azim (deg)	Tape		Loc	Dist (km)	Azim (deg)	Tape		Loc	Dist (km)	Azim (deg)	Tape	
....	.....	.....	Db	Grade	....	.....	.....	Db	Grade	....	.....	.....	Db	Grade
10	47.32	228.5	12	6	413	39.61	229.1	30		807	42.43	237.9	12	0
11	46.12	227.8	30	0	414	38.68	228.2	30	0	808	41.32	237.2	12	
12	45.10	226.8	30	0	415	37.52	227.8	30		810	38.84	236.0	30	
106	50.73	232.0	12		502	51.27	237.5	12	0	811	37.83	235.5	30	0
107	49.71	231.1	12		503	50.07	236.9	12	0	812	36.53	234.6	30	
108	48.36	230.6	12	0	504	48.97	236.4	12	0	813	35.56	233.8	30	
109	47.25	230.0	12		505	48.00	236.0	12	0	900	49.70	242.1	30	
110	46.14	229.6	12	0/6	506	46.60	235.3	12	0	901	48.60	241.6	12	
111	44.88	228.4	30	0	507	45.28	234.5	12	0	902	47.45	241.4	30	
112	43.87	227.4	12	0	508	44.34	234.0	12	0	903	46.14	240.4	12	0
204	51.85	233.9	30		509	43.03	233.3	30	0	904	45.05	240.4	12	0
205	50.57	233.2	12		510	41.95	232.4	30	0	905	44.02	239.9	30	0
206	49.80	232.9	12		513	38.48	230.4	30		906	42.62	239.5	30	
207	48.32	232.2	12		514	37.51	229.5	12	0	907	41.21	238.6	12	
208	47.35	231.2	12		601	51.35	239.1	12		908	40.30	238.4	48	
209	46.16	230.9	12	0	602	50.16	238.4	12	0	909	39.21	237.6	30	
210	45.18	230.3	12	0	603	49.15	238.1	12	0	910	38.06	237.6	30	
211	44.06	229.3	30	0	604	47.84	237.5	12	0	911	36.85	236.4	30	
212	42.78	228.7	30	0	605	46.93	237.0	12	0	912	35.47	235.8	30	0
214	40.77	226.6	30	0	606	45.45	236.3	30	0	1000	48.99	243.4	30	
299	41.55	227.6	30		607	44.51	235.7			1001	47.78	242.6	12	0
303	51.78	235.8	12	0	608	43.15	235.2	12	0	1002	46.66	242.8	12	0
304	51.29	234.3			609	42.02	234.2	12	0	1003	45.79	242.1	30	0
305	49.77	233.7	12		613	37.47	231.4	30	0	1004	44.22	241.7	30	
306	48.67	233.7	12	0	614	36.61	230.3	12	0	1005	42.83	241.1	12	
307	47.54	232.9	12	0	701	50.19	239.8	12		1006	41.54	240.7	12	
308	46.32	232.2	30	0	702	49.28	239.3	12	0	1007	40.73	240.0	30	
310	44.13	230.9			703	48.11	238.9	12		1008	39.59	239.5	30	
314	39.64	227.7	30	0	704	46.95	238.4	12		1009	37.93	239.1	12	
315	38.76	226.6	12		705	45.78	237.7	12	0	1010	37.01	238.2	30	
402	52.29	236.6			706	44.34	237.1	12	0	1011	35.87	237.7	12	
403	51.18	236.1	12	0	708	42.31	236.2	12	0	1101	46.89	243.9	12	0
404	50.67	236.2	12		709	40.99	235.6			1102	45.62	243.6	30	
405	48.52	235.1	12		710	39.97	234.8	30		1103	44.52	243.5	30	
406	47.71	234.4	12		800	50.97	241.0	12		1104	43.41	243.1	12	0
407	46.33	233.9	30	0	801	49.25	240.9	12		1105	41.94	242.2	30	
408	45.21	233.1	12	0	802	48.16	240.1	12		1106	40.87	241.5	30	
409	44.43	232.5	12	0	803	47.22	240.0	12		1107	39.60	241.1	30	
411	41.70	230.8	30	0/12	804	46.20	239.3	12	0	1108	38.27	240.7	30	
412	40.84	229.9			805	45.07	239.2	12	0	1109	37.30	240.6	30	

Table 3, continued.

Shot Number 8502 Shot Point 8518 Deployment 16
 Shot Time (Julian day, hr, min, sec): 255:06:34:00.009

Loc	Dist (km)	Azim (deg)	Tape Db Grade	Loc	Dist (km)	Azim (deg)	Tape Db Grade	Loc	Dist (km)	Azim (deg)	Tape Db Grade
10	44.71	320.7	30	413	46.05	330.3	30 0	807	52.08	326.4	30 0/12
11	44.24	322.2	30 6	414	45.66	331.6	48	808	51.55	327.6	30
12	43.50	323.7	30	415	45.65	333.1	48	810	50.85	330.4	30 0
106	47.79	316.5	30	502	52.76	316.7	12	811	50.59	331.6	30 0
107	46.97	317.7	12	503	51.99	317.9	30 0	812	50.17	333.2	30 0
108	46.46	319.3	12	504	51.41	319.0	12 0	813	49.84	334.3	30 0
109	45.96	320.7	30	505	50.99	320.1	12 0	900	56.41	319.2	30
110	45.64	322.1	30	506	50.30	321.6	12 0	901	55.71	320.2	12
111	44.77	323.8	30	507	49.56	323.1	12 0	902	55.36	321.3	30
112	44.15	325.2	30 0	508	49.16	324.2	12 0	903	54.34	322.5	12 0
204	49.69	315.5	30	509	48.66	325.7	30 0	904	54.17	323.7	12 0
205	48.85	316.8	30	510	48.06	327.1	30 0	905	53.71	324.7	30 0
206	48.52	317.7	30	513	47.16	331.4	30 0	906	53.28	326.2	30 0
207	47.79	319.4	30	514	46.78	332.8	30 0	907	52.57	327.7	12 0
208	46.93	320.6	12	601	54.17	316.9		908	52.40	328.7	30
209	46.72	322.0	30 6	602	53.34	318.0	12 0	909	51.92	329.9	30 0
210	46.26	323.3	30 0	603	52.93	319.1	12 0	910	51.96	331.2	30 0
211	45.57	324.7	30	604	52.24	320.4	12 0	911	51.27	332.6	30 0
212	45.25	326.4	30 0	605	51.66	321.4	12 0	912	51.08	334.2	30
214	44.13	329.3	30	606	50.99	323.0	30 0	1000	57.33	320.1	30
299	44.62	328.1	30 0	607	50.52	324.0		1001	56.40	321.2	12 0
303	51.34	315.8	30	608	50.13	325.5	12 0	1002	56.38	322.3	12 0
304	49.89	316.1		609	49.39	326.9	30	1003	55.66	323.1	30 0/12
305	49.20	317.8	30 6	613	47.96	332.5	30 0	1004	55.11	324.7	12 0
306	49.12	319.1	30 0	614	47.45	333.7	30 0	1005	54.54	326.1	
307	48.37	320.4	30 0	701	54.57	318.2	30	1006	54.12	327.4	30 0
308	47.78	321.8	30 0	702	53.97	319.1	12	1007	53.61	328.3	30 0
310	46.80	324.5		703	53.41	320.3	12	1008	53.19	329.5	30 0/6
314	45.09	330.5	30 0	704	52.81	321.5	12	1009	52.98	331.3	30 0
315	44.59	331.8	30 0/6	705	52.13	322.7	12 0	1010	52.43	332.3	30 0
402	52.18	315.4		706	51.59	324.2	12 0	1011	52.23	333.6	30
403	51.54	316.6	30	708	50.83	326.5	12 0	1101	57.27	322.3	30
404	51.50	317.1	30 0/6	709	50.45	328.0		1102	56.84	323.5	30 0/6
405	50.32	319.4	12	710	49.92	329.2	30 6	1103	56.51	324.6	30 0
406	49.65	320.3	12	800	55.76	317.7	12 0	1104	56.08	325.6	12 0
407	49.13	321.8	30 0	801	55.33	319.4	12	1105	55.27	327.1	30 0
408	48.46	323.2	30 0	802	54.44	320.4	12	1106	54.65	328.2	30 0
409	47.98	324.1	12 0	803	54.18	321.4	12	1107	54.32	329.5	30 0
411	46.95	327.5	30 0/12	804	53.50	322.4	12 0	1108	54.01	330.9	30 0
412	46.43	328.7		805	53.25	323.6	12 0	1109	54.00	331.9	30 0

Table 3, continued.

Shot Number 8503 Shot Point 8506 Deployment 16
 Shot Time (Julian day, hr, min, sec): 255:06:36:00.009

Loc	Dist (km)	Azim (deg)	Tape Db Grade	Loc	Dist (km)	Azim (deg)	Tape Db Grade	Loc	Dist (km)	Azim (deg)	Tape Db Grade
10	56.94	137.8	30	413	57.10	130.1	30	807	50.36	131.6	30 0/12
11	57.49	136.7	30	414	57.84	129.3	30	808	51.18	130.5	30
12	58.35	135.7	30	415	58.33	128.2	30	810	52.67	128.2	30
106	53.93	141.3	30	502	48.96	141.6	12	811	53.31	127.3	30
107	54.68	140.3	30	503	49.66	140.3	30	812	54.28	126.2	30 0
108	55.16	138.9	30	504	50.21	139.1	12 0	813	55.05	125.4	30
109	55.68	137.7	30	505	50.64	138.1	30 0	900	45.21	139.0	48
110	56.08	136.6	30	506	51.40	136.6	12 0	901	45.93	137.8	30
111	57.10	135.4	30	507	52.28	135.3	12 0	902	46.34	136.4	30
112	57.89	134.4	30 0	508	52.81	134.4	12 0	903	47.48	135.1	30 0
204	52.14	142.5	30	509	53.56	133.1	30 0/12	904	47.80	133.9	30 0
205	52.85	141.1	30	510	54.40	132.1	30 0	905	48.43	132.8	30 0
206	53.13	140.3	30	513	56.41	128.8	30	906	49.17	131.4	30 0
207	53.83	138.8	30	514	57.18	128.0	30 0	907	50.23	130.1	12 0
208	54.71	137.8	12	601	47.54	141.5	12 0	908	50.67	129.2	30
209	55.01	136.6	30	602	48.30	140.2	30 0	909	51.51	128.2	30
210	55.57	135.6	30 0	603	48.69	139.1	12 0	910	51.92	127.0	30
211	56.42	134.5	30 0/12	604	49.40	137.7	30 0	911	53.09	126.1	30
212	57.01	133.3	30 0/12	605	50.04	136.7	12 0	912	53.91	124.8	30 0
214	58.68	131.4	30	606	50.85	135.2	30 0	1000	44.31	137.7	30 0
299	57.95	132.1	12	607	51.44	134.3		1001	45.30	136.5	30 0
303	50.46	142.4	30	608	52.09	132.9	12 0	1002	45.42	135.1	30 0
304	51.87	141.9		609	53.07	131.9	30	1003	46.25	134.2	30 0
305	52.45	140.2	30	613	56.02	127.7	30 0	1004	47.06	132.5	30 0
306	52.50	139.1	30 0	614	56.91	127.0	12 0	1005	47.92	131.1	
307	53.27	137.9	30 0	701	47.07	140.0	30	1006	48.67	129.8	30 0
308	53.93	136.7	30 0	702	47.64	139.0	30 0	1007	49.40	129.1	30 0
310	55.19	134.5		703	48.23	137.7	12	1008	50.18	128.1	30
314	58.07	130.3	12	704	48.89	136.5	12	1009	51.02	126.5	30 0
315	58.91	129.5	12	705	49.68	135.3	30 0	1010	51.93	125.8	30 0
402	49.67	142.9		706	50.42	133.8	30 0	1011	52.64	124.7	30
403	50.19	141.7	30	708	51.60	131.8	12 0	1101	44.53	135.0	30 0
404	50.18	141.1	30	709	52.33	130.5		1102	45.14	133.6	30 0
405	51.30	138.8	30	710	53.16	129.6	30	1103	45.66	132.3	30 0
406	51.98	137.9	30	800	45.90	140.8	30 0	1104	46.32	131.2	30 0
407	52.59	136.5	30 0	801	46.29	138.7	30	1105	47.47	129.8	30 0
408	53.38	135.4	30 0	802	47.20	137.6	30	1106	48.38	128.9	30 0
409	53.96	134.6	30 0	803	47.52	136.5	30	1107	49.12	127.6	30 0
411	55.57	132.0	30 0/12	804	48.29	135.5	30 0	1108	49.93	126.4	30 0
412	56.33	131.2		805	48.69	134.2	12	1109	50.36	125.4	30 0

Table 3, continued.

Shot Number 8504 Shot Point 8111 Deployment 16
 Shot Time (Julian day, hr, min, sec): 255:08:45:00.013

Loc	Dist (km)	Azim (deg)	Tape Db Grade	Loc	Dist (km)	Azim (deg)	Tape Db Grade	Loc	Dist (km)	Azim (deg)	Tape Db Grade
10	46.68	274.5	30	413	42.03	282.5	30	807	48.65	284.9	30 0/12
11	45.47	275.2	30 0	414	40.99	283.1	30	808	47.51	285.4	12
12	44.16	275.4	30	415	40.07	284.2	30	810	45.30	287.1	30
106	51.21	274.2	30	502	54.88	277.9	12	811	44.39	287.9	30
107	49.95	274.4	12	503	53.59	278.2	12	812	43.14	288.8	30 0
108	48.67	275.1	12	504	52.49	278.7	12 0	813	42.18	289.5	
109	47.53	275.7	12	505	51.57	279.2	12 0	900	56.30	282.1	30
110	46.51	276.3	30	506	50.16	279.8	12 0	901	55.14	282.5	12
111	44.95	276.7	30	507	48.74	280.3	12 0	902	54.19	283.2	12
112	43.73	277.1	30 0	508	47.81	280.8	12 0	903	52.66	283.5	12 0
204	53.23	274.9	30	509	46.54	281.6	30 0/12	904	51.85	284.3	12 0
205	51.82	275.3	12	510	45.32	282.0	30 0	905	50.87	284.8	30 0
206	51.08	275.6	12	513	42.08	284.5	30	906	49.65	285.7	30 0
207	49.57	276.3	12	514	41.04	285.1	30 0	907	48.20	286.3	12 0
208	48.30	276.4	12	601	55.86	278.9	12	908	47.48	287.0	30
209	47.31	277.2	12	602	54.56	279.3	12 0	909	46.38	287.6	30
210	46.27	277.7	12 0	603	53.63	279.8	12 0	910	45.63	288.7	30
211	44.96	278.1	30 0	604	52.32	280.3	12	911	44.25	289.3	30
212	43.76	279.0	30 0/12	605	51.32	280.6	12 0	912	43.14	290.5	30 0
214	41.34	279.8	30	606	49.87	281.3	12 0	1000	56.46	283.4	12
299	42.34	279.5	30	607	48.91	281.8		1001	55.09	283.7	12 0
303	54.27	276.3	12	608	47.70	282.7	12 0	1002	54.39	284.6	12 0
304	52.99	275.5		609	46.39	283.1	30	1003	53.35	284.8	12 0
305	51.51	276.2	30	613	42.00	286.1	30 0	1004	51.97	285.7	12 0
306	50.73	277.1	12 0	614	40.93	286.5	12 0	1005	50.69	286.5	12
307	49.44	277.4	12 0	701	55.39	280.2	12	1006	49.55	287.3	30 0
308	48.18	278.0	30 0	702	54.41	280.5	12	1007	48.65	287.6	30 0
310	45.92	279.1		703	53.28	281.0	12	1008	47.59	288.3	30
314	41.25	281.7	30	704	52.13	281.5	12	1009	46.33	289.6	30 0
315	40.14	282.1	30	705	50.90	282.0	12 0	1010	45.29	290.1	30 0
402	55.15	276.5		706	49.57	282.8	12 0	1011	44.36	291.0	12
403	54.01	276.9	12	708	47.66	284.0	12 0	1101	55.13	285.2	12
404	53.66	277.3	12	709	46.47	284.8		1102	54.05	285.9	12
405	51.45	278.2	12	710	45.36	285.3	30	1103	53.14	286.6	12 0
406	50.45	278.3	48	800	56.65	280.5	12 0	1104	52.15	287.2	12 0
407	49.15	279.1	30 0	801	55.30	281.6	12	1105	50.65	287.8	12 0
408	47.90	279.5	12 0	802	54.02	281.8	12	1106	49.52	288.3	12 0
409	47.01	279.8	12 0	803	53.24	282.4	12	1107	48.45	289.2	30 0
411	44.28	281.3	30 0	804	52.13	282.7	12 0	1108	47.35	290.1	30 0
412	43.25	281.7		805	51.22	283.5	12 0	1109	46.70	291.0	30 0

Table 3, continued.

Shot Number 8505 Shot Point 8516 Deployment 16
 Shot Time (Julian day, hr, min, sec): 255:08:47:00.010

Loc	Dist (km)	Azim (deg)	Tape Db Grade	Loc	Dist (km)	Azim (deg)	Tape Db Grade	Loc	Dist (km)	Azim (deg)	Tape Db Grade
10	61.26	179.2	12	413	56.18	173.6	12	807	52.47	179.6	12 0/12
11	60.89	178.0	12	414	56.15	172.4	12	808	52.32	178.3	12
12	60.87	176.8	30	415	55.76	171.3	12	810	51.76	175.5	12
106	61.26	183.4	12	502	57.84	186.9	12	811	51.57	174.4	30
107	61.14	182.3	12	503	57.53	185.6	12	812	51.47	172.8	30 8
108	60.60	181.0	12	504	57.18	184.5	12 0	813	51.45	171.6	
109	60.26	179.9	12	505	56.83	183.6	12 0	900	53.68	188.2	30
110	59.82	178.9	12	506	56.44	182.1	12 0	901	53.43	186.9	12
111	59.76	177.4	48	507	56.20	180.6	12 0	902	52.88	185.8	12
112	59.71	176.2	12 0	508	55.97	179.6	12 0	903	52.83	184.2	12 0/12
204	60.67	185.3	30	509	55.64	178.2	30 0/12	904	52.25	183.2	12 0
205	60.34	184.0	12	510	55.57	176.9	12 0/12	905	52.00	182.0	30 0
206	60.03	183.3	12	513	54.80	173.1	12	906	51.55	180.5	30 0
207	59.56	181.8	12	514	54.78	171.9	12 8	907	51.38	178.8	12 0
208	59.58	180.6	12	601	56.80	187.9	12	908	51.08	177.8	12
209	59.00	179.6	12	602	56.54	186.6	12 0	909	50.99	176.5	12
210	58.77	178.5	12 0/12	603	56.10	185.6	12 0	910	50.46	175.3	30
211	58.68	177.2	12 0/12	604	55.72	184.2	12 0	911	50.60	173.7	30
212	58.27	175.9	12 0/12	605	55.57	183.2	12 0	912	50.31	172.1	12 0
214	58.26	173.5	30	606	55.15	181.6	30 0	1000	52.37	188.3	12
299	58.20	174.5	12	607	54.95	180.5		1001	52.25	186.8	12 0/12
303	59.36	186.3	12	608	54.50	179.1	12 0	1002	51.46	185.9	12 0
304	60.09	185.1		609	54.50	177.7	12	1003	51.48	184.7	12 0/12
305	59.49	183.7	30	613	53.74	172.5	30 8	1004	50.93	183.0	12 0
306	58.77	182.9	12 0	614	53.91	171.4	12 0	1005	50.58	181.4	
307	58.59	181.6	12 0	701	55.58	187.4	12	1006	50.22	180.0	12 0
308	58.26	180.3	12 0	702	55.36	186.3	12	1007	50.24	178.9	30 0
310	57.75	178.0		703	54.96	185.1	12	1008	50.05	177.5	12
314	57.00	173.0	12	704	54.64	183.9	12	1009	49.50	175.7	30 8
315	57.09	171.9	12	705	54.42	182.5	12 0	1010	49.63	174.5	30 8
402	59.11	187.2		706	53.97	181.0	12 0	1011	49.40	173.1	12
403	58.74	186.1	12	708	53.46	178.8	12 0	1101	50.86	186.6	12
404	58.37	185.7	12	709	53.10	177.4		1102	50.35	185.3	12
405	57.73	183.5	12	710	53.06	176.1	30	1103	49.91	184.1	12 0
406	57.69	182.5	12	800	55.22	188.6	12 0	1104	49.59	182.8	12 0/12
407	57.21	181.2	12 0	801	54.24	187.2	12	1105	49.43	181.0	12 0
408	57.05	179.9	12 0	802	54.15	185.8	12	1106	49.40	179.6	12 8
409	56.97	179.0	12 0	803	53.70	184.9	12	1107	49.05	178.2	30 0
411	56.37	176.0	30 0/12	804	53.57	183.7	12	1108	48.72	176.6	12 0
412	56.40	174.9		805	53.04	182.6	12 0	1109	48.32	175.6	12 0

Table 3, continued.

Shot Number 8506 Shot Point 8519 Deployment 16
 Shot Time (Julian day, hr, min, sec): 255:08:49:00.009

Loc	Dist (km)	Azim (deg)	Tape Db Grade	Loc	Dist (km)	Azim (deg)	Tape Db Grade	Loc	Dist (km)	Azim (deg)	Tape Db Grade
10	45.92	1.2	30	413	51.74	7.2	30	807	54.70	0.4	12 0/12
11	46.37	2.7	30	414	52.06	8.3	30	808	54.89	1.7	12
12	46.52	4.3	30	415	52.76	9.4	30	810	55.72	4.3	30
106	46.16	355.5	30	502	50.22	352.1	30	811	56.09	5.3	30
107	46.13	357.1	30	503	50.22	353.6	30	812	56.49	6.7	30 8
108	46.59	358.8	30	504	50.36	354.9	12 0	813	56.80	7.8	
109	46.91	0.2	30	505	50.57	356.1	12 0	900	54.57	352.0	30
110	47.37	1.5	30	506	50.80	357.8	30 0	901	54.51	353.2	12
111	47.55	3.4	30	507	50.97	359.4	30 0	902	54.82	354.4	30
112	47.77	4.9	30 0	508	51.20	0.6	30 0	903	54.61	356.0	12 0
204	47.09	353.2	30	509	51.59	2.1	30 0/12	904	55.07	357.1	30 0
205	47.15	355.0	30	510	51.77	3.5	30 0	905	55.23	358.2	30 0
206	47.36	355.9	30	513	53.19	7.3	30	906	55.62	359.6	30 0
207	47.68	357.8	30	514	53.51	8.4	30 0	907	55.81	1.2	12 0
208	47.60	359.4	30	601	51.49	351.4	12 0	908	56.16	2.1	12
209	48.18	0.6	30	602	51.40	352.8	30 0	909	56.37	3.3	30
210	48.45	1.9	30 0	603	51.61	354.0	12 0	910	57.04	4.3	30
211	48.64	3.5	30 0/12	604	51.76	355.5	12 0	911	57.16	5.7	30
212	49.22	5.0	30 0	605	51.77	356.7	12 0	912	57.77	7.0	30 0
214	49.75	7.8	30	606	52.06	358.4	12 0	1000	55.85	352.3	30
299	49.57	6.6	30	607	52.22	359.5		1001	55.62	353.7	12
303	48.61	352.3	30	608	52.68	1.0	12 0	1002	56.22	354.7	30 0
304	47.61	353.6		609	52.76	2.5	12	1003	56.01	355.8	30 0/12
305	47.95	355.5	30	613	54.35	7.5	30 8	1004	56.37	357.4	30 0
306	48.55	356.6	30 0	614	54.50	8.7	12 0	1005	56.61	358.8	
307	48.63	358.1	30 0	701	52.53	352.3	30	1006	56.94	0.1	30 0
308	48.91	359.7	30 0	702	52.50	353.4	30	1007	56.95	1.1	30 0
310	49.50	2.5		703	52.65	354.7	12	1008	57.21	2.3	12
314	51.09	8.0	30	704	52.78	356.0	12	1009	57.93	3.8	30 0
315	51.32	9.2	30	705	52.85	357.5	30 0	1010	57.98	4.9	30 8
402	49.07	351.4		706	53.21	359.0	30 0	1011	58.44	5.9	12
403	49.15	352.8	30	708	53.74	1.3	12 0	1101	56.94	354.2	30
404	49.43	353.3	30	709	54.19	2.7		1102	57.21	355.4	30
405	49.67	356.0	30	710	54.36	3.9	30	1103	57.49	356.5	30 0
406	49.59	357.2	30	800	53.22	351.1	12	1104	57.69	357.6	12
407	49.98	358.8	30 0	801	53.78	352.8	30	1105	57.75	359.2	30 0
408	50.12	0.2	30 0	802	53.57	354.2	30	1106	57.77	0.4	30 0
409	50.22	1.3	30 0	803	53.86	355.1	12	1107	58.17	1.7	30 0
411	51.10	4.5	30 0/12	804	53.82	356.4	12 0	1108	58.61	2.9	12 0
412	51.25	5.7		805	54.23	357.5	12 0	1109	59.11	3.7	12 0

Table 3, continued.

Shot Number 8507 Shot Point 8508 Deployment 16
 Shot Time (Julian day, hr, min, sec): 255:08:51:00.008

Loc	Dist (km)	Azim (deg)	Tape Db Grade	Loc	Dist (km)	Azim (deg)	Tape Db Grade	Loc	Dist (km)	Azim (deg)	Tape Db Grade
10	50.46	49.8	12	413	58.15	49.2	12	807	56.16	42.5	12 0/12
11	51.67	50.3	30	414	59.10	49.8	12	808	57.12	43.3	12
12	52.75	51.2	30	415	60.27	50.0	12	810	59.37	44.6	12
106	47.16	46.1	30	502	47.60	40.1	12	811	60.30	45.2	30
107	48.11	47.1	12	503	48.59	41.2	12	812	61.48	45.9	30 8
108	49.43	47.7	12	504	49.55	42.0	12 0	813	62.38	46.5	
109	50.52	48.3	12	505	50.42	42.6	12 0	900	50.54	36.3	12
110	51.63	48.8	12	506	51.66	43.6	12 0	901	51.33	37.4	12
111	52.90	49.8	12	507	52.83	44.6	12 0	902	52.34	38.0	12
112	53.94	50.6	12	508	53.70	45.1	12 0/12	903	53.24	39.4	12 0/12
204	46.28	43.7	30	509	54.92	45.9	12 0/12	904	54.25	39.8	12 0
205	47.44	44.8	12	510	55.93	46.7	12 0/12	905	55.10	40.5	12 0
206	48.16	45.2	12	513	59.30	48.3	12	906	56.32	41.3	30 0
207	49.57	46.2	12	514	60.26	48.9	12 8	907	57.49	42.4	12 2
208	50.47	47.2	12	601	47.98	38.4		908	58.31	42.8	12
209	51.64	47.6	12	602	48.90	39.6	12 0	909	59.24	43.5	12
210	52.60	48.2	12 0/12	603	49.79	40.2	12 0	910	60.36	43.8	30
211	53.70	49.0	30 0/12	604	50.89	41.2	12 0	911	61.37	44.8	12
212	54.99	49.5	12 0/12	605	51.64	42.0	12 0	912	62.65	45.4	12 8
214	57.07	50.9	12	606	52.95	43.0	12 0	1000	51.67	35.6	12
299	56.25	50.3	12	607	53.77	43.7		1001	52.44	36.9	12 0/12
303	46.70	41.7	12	608	55.03	44.4	12 0	1002	53.54	37.2	12 0/12
304	46.89	43.5		609	56.01	45.3	12	1003	54.09	38.1	12 0/12
305	48.30	44.4	12	613	60.34	47.8	12 8	1004	55.40	39.1	12 2
306	49.38	44.6	12 0	614	61.16	48.5	12 2	1005	56.54	40.1	
307	50.41	45.6	12 0	701	49.29	38.2	12	1006	57.64	40.8	12 2
308	51.57	46.4	12 0	702	50.00	39.1	12	1007	58.25	41.5	12 2
310	53.67	47.7		703	50.98	39.9	12	1008	59.21	42.2	12
314	58.16	50.1	12	704	51.94	40.8	12	1009	60.74	42.9	12 8
315	59.08	50.8	12	705	52.90	41.7	12 0	1010	61.47	43.7	30 8
402	46.40	40.7		706	54.18	42.6	12 0	1011	62.50	44.2	12
403	47.35	41.6	12	708	55.99	43.8	12 0	1101	53.72	36.3	12
404	47.86	41.6	12	709	57.20	44.5		1102	54.76	37.0	12
405	49.74	43.3	12	710	58.11	45.3	30	1103	55.68	37.7	12 2
406	50.44	44.1	12	800	48.98	36.7	12 0	1104	56.57	38.4	12 0/12
407	51.72	44.9	12 0	801	50.53	37.6	12	1105	57.66	39.6	12 2
408	52.74	45.8	12 0/12	802	51.28	38.8	12	1106	58.46	40.5	12 0
409	53.47	46.4	12 0/12	803	52.12	39.3	12	1107	59.56	41.2	12 2
411	56.09	47.9	12 0/12	804	52.89	40.2	12 0/12	1108	60.72	41.9	12 8
412	56.93	48.6		805	53.92	40.7	12 0/12	1109	61.63	42.2	12 8

Table 3, continued.

Shot Number 8508 Shot Point 8504 Deployment 16
 Shot Time (Julian day, hr, min, sec): 255:11:00:00.008

Loc	Dist (km)	Azim (deg)	Tape		Loc	Dist (km)	Azim (deg)	Tape		Loc	Dist (km)	Azim (deg)	Tape	
...	....	.....	Db	Grade	...	....	.....	Db	Grade	...	....	.....	Db	Grade
10	86.93	87.7	12		413	92.74	84.5	12		807	87.16	81.9	12	0/12
11	88.19	87.5	12		414	93.85	84.4	12		808	88.39	81.9	12	
12	89.51	87.5	12		415	94.96	84.2	12		810	90.97	81.7	12	
106	82.42	87.5	30		502	79.57	84.7	12		811	92.03	81.6	12	
107	83.68	87.5	12		503	80.69	84.7	12		812	93.45	81.6	30	8/2
108	85.02	87.2	12		504	81.85	84.6	12	0	813	94.54	81.6		
109	86.20	87.0	12		505	82.85	84.4	12	0	900	79.36	81.6	12	
110	87.30	86.8	12		506	84.35	84.3	12	0	901	80.36	81.6	12	
111	88.87	86.7	12		507	85.83	84.3	12	0	902	81.48	81.4	12	
112	90.13	86.7	12	0/12	508	86.83	84.2	12	0/12	903	83.00	81.7	12	0/12
204	80.49	86.9	48		509	88.23	84.1	12	0/12	904	84.02	81.4	12	0
205	81.93	86.8	12		510	89.50	84.1	12	0/12	905	85.10	81.4	12	0
206	82.70	86.7	30		513	93.16	83.6	12		906	86.52	81.2	12	0
207	84.28	86.4	12		514	94.29	83.6	12	2	907	88.07	81.3	12	2
208	85.54	86.5	12		601	78.87	83.8			908	88.97	81.1	12	
209	86.64	86.2	12		602	79.99	83.8	12	0	909	90.17	81.2	12	
210	87.72	86.1	12	0	603	81.01	83.7	12	0	910	91.23	80.9	12	
211	89.07	86.1	12	0/12	604	82.40	83.6	12	0	911	92.66	81.0	30	
212	90.38	85.8	12	0/12	605	83.43	83.6	12	0	912	94.06	80.9	12	2
214	92.88	85.8	12		606	85.00	83.5	12	0	1000	79.68	80.7	12	
299	91.86	85.7	12		607	86.02	83.5			1001	80.84	80.9	12	0/12
303	79.87	85.9	12		608	87.40	83.3	12	0	1002	81.84	80.5	12	0/12
304	80.81	86.5			609	88.75	83.4	12		1003	82.84	80.7	12	0/12
305	82.36	86.3	30		613	93.67	83.0	30	8	1004	84.43	80.5	12	2
306	83.26	85.8	12	0	614	94.77	83.1	12	2	1005	85.88	80.5		
307	84.58	85.8	12	0	701	79.65	83.0	12		1006	87.20	80.4	12	2
308	85.90	85.7	12	0	702	80.45	83.1	12		1007	88.13	80.5	12	8/2
310	88.29	85.4			703	81.67	83.0	12		1008	89.33	80.5	12	
314	93.30	85.0	12		704	82.90	82.9	12		1009	90.96	80.3	12	8/2
315	94.45	85.0	12		705	84.20	82.9	12	0	1010	92.04	80.4	12	8
402	79.05	85.6			706	85.68	82.8	12	0	1011	93.20	80.3	12	
403	80.03	85.5	30		708	87.81	82.6	12	0	1101	81.36	79.9	12	
404	80.45	85.2	12		709	89.17	82.5			1102	82.63	79.8	12	
405	82.75	85.1	12		710	90.35	82.5	12		1103	83.72	79.7	12	2
406	83.76	85.1	12		800	78.53	82.6	12		1104	84.86	79.7	12	0/12
407	85.17	84.9	12	0	801	79.93	82.1	12		1105	86.45	79.8	12	2
408	86.46	84.9	12	0	802	81.21	82.3	12		1106	87.64	79.9	30	8
409	87.38	84.9	12	0/12	803	82.12	82.1	12		1107	88.93	79.8	12	2
411	90.33	84.6	12	0/12	804	83.26	82.2	12	0/12	1108	90.27	79.7	12	2
412	91.39	84.6			805	84.35	82.0	12	0/12	1109	91.20	79.5	12	2

Table 3, continued.

Shot Number 8509 Shot Point 8504 Deployment 16 ("Noise Test")
 Shot Time (Julian day, hr, min, sec): 255:11:02:00.000

Loc	Dist (km)	Azim (deg)	Tape Db Grade	Loc	Dist (km)	Azim (deg)	Tape Db Grade	Loc	Dist (km)	Azim (deg)	Tape Db Grade
10	86.93	87.7	12	413	92.74	84.5	12	807	87.16	81.9	30 0
11	88.19	87.5	30	414	93.85	84.4	12	808	88.39	81.9	12
12	89.51	87.5	12	415	94.96	84.2	12	810	90.97	81.7	12
106	82.42	87.5	12	502	79.57	84.7	12	811	92.03	81.6	12
107	83.68	87.5	12	503	80.69	84.7	12	812	93.45	81.6	12 8
108	85.02	87.2	12	504	81.85	84.6	12 0	813	94.54	81.6	
109	86.20	87.0	12	505	82.85	84.4	12 0	900	79.36	81.6	12
110	87.30	86.8	12	506	84.35	84.3	12 0	901	80.36	81.6	12
111	88.87	86.7	12	507	85.83	84.3	12 0	902	81.48	81.4	12
112	90.13	86.7	12 0	508	86.83	84.2	12 0	903	83.00	81.7	30 0
204	80.49	86.9	30	509	88.23	84.1	12 0	904	84.02	81.4	12 0
205	81.93	86.8	12	510	89.50	84.1	12 0	905	85.10	81.4	12 0
206	82.70	86.7	12	513	93.16	83.6	12	906	86.52	81.2	12 0
207	84.28	86.4	12	514	94.29	83.6	12 0	907	88.07	81.3	12 0
208	85.54	86.5	12	601	78.87	83.8	12 0	908	88.97	81.1	12
209	86.64	86.2	12	602	79.99	83.8	12 0	909	90.17	81.2	12
210	87.72	86.1	12 0	603	81.01	83.7	12 0	910	91.23	80.9	12
211	89.07	86.1	12 0	604	82.40	83.6	12 0	911	92.66	81.0	30
212	90.38	85.8	12 0	605	83.43	83.6	12 0	912	94.06	80.9	12 0
214	92.88	85.8	12	606	85.00	83.5	12 0	1000	79.68	80.7	12
299	91.86	85.7	12	607	86.02	83.5		1001	80.84	80.9	12 0
303	79.87	85.9	12	608	87.40	83.3	12 0	1002	81.84	80.5	12 0
304	80.81	86.5		609	88.75	83.4		1003	82.84	80.7	12 0
305	82.36	86.3	12	613	93.67	83.0	12 8	1004	84.43	80.5	12 0
306	83.26	85.8	12 0	614	94.77	83.1	12 8	1005	85.88	80.5	
307	84.58	85.8	12 0	701	79.65	83.0	12	1006	87.20	80.4	12 0
308	85.90	85.7	12 0	702	80.45	83.1	12	1007	88.13	80.5	12 0
310	88.29	85.4		703	81.67	83.0	12	1008	89.33	80.5	12
314	93.30	85.0	12	704	82.90	82.9	48	1009	90.96	80.3	12 0
315	94.45	85.0	12	705	84.20	82.9	12 0	1010	92.04	80.4	12 0
402	79.05	85.6		706	85.68	82.8	12 0	1011	93.20	80.3	12
403	80.03	85.5	12	708	87.81	82.6	12 0	1101	81.36	79.9	12
404	80.45	85.2	12	709	89.17	82.5		1102	82.63	79.8	12
405	82.75	85.1	12	710	90.35	82.5	12	1103	83.72	79.7	12 0
406	83.76	85.1	12	800	78.53	82.6		1104	84.86	79.7	12 0
407	85.17	84.9	12 0	801	79.93	82.1	12	1105	86.45	79.8	12
408	86.46	84.9	12 0	802	81.21	82.3	12	1106	87.64	79.9	30 8
409	87.38	84.9	12 0	803	82.12	82.1	12	1107	88.93	79.8	12 0
411	90.33	84.6	12 0	804	83.26	82.2	12 0	1108	90.27	79.7	12 0
412	91.39	84.6		805	84.35	82.0	12 0	1109	91.20	79.5	12 0

TABLE 4
SEGY TAPE SEQUENCE NUMBERS FOR TRACES

TAPE 1

Shot Number	Number of traces	Tape Record Numbers	Shot Number	Number of traces	Tape Record Numbers
-----	-----	-----	-----	-----	-----
7801	36	3- 38	8113	86	1106-1191
7802	31	39- 69	8114	89	1192-1280
7803	28	70- 97	8115	84	1281-1364
8101	72	98- 169	8116	93	1365-1457
8102	81	170- 250	8117	90	1458-1547
8103	78	251- 328	8118	85	1548-1632
8104	87	329- 415	8119	88	1633-1720
8105	81	416- 496	8120	89	1721-1809
8106	88	497- 584	8121	90	1810-1899
8107	90	585- 674	8122	90	1900-1989
8108	92	675- 766	8123	90	1990-2079
8109	82	767- 848	8124	83	2080-2162
8110	89	849- 937	8125	81	2163-2243
8111	82	938-1019	8126	77	2244-2320
8112	86	1020-1105	8127	82	2321-2402

TAPE 2

Shot Number	Number of traces	Tape Record Numbers	Shot Number	Number of traces	Tape Record Numbers
-----	-----	-----	-----	-----	-----
8201	77	3- 79	8214	73	1020-1092
8202	80	80- 159	8215	80	1093-1172
8203	71	160- 230	8216	81	1173-1253
8204	79	231- 309	8501	114	1254-1367
8205	73	310- 382	8502	112	1368-1479
8206	77	383- 459	8503	113	1480-1592
8207	84	460- 543	8504	113	1593-1705
8208	82	544- 625	8505	112	1706-1817
8209	84	626- 709	8506	112	1818-1929
8210	84	710- 793	8507	111	1930-2040
8211	84	794- 877	8508	111	2041-2151
8212	76	878- 953	8509	110	2152-2261
8213	66	954-1019			

TABLE 5
SEGY TAPE REEL IDENTIFICATION HEADER.
PART 1, THE EBCDIC CARD IMAGE BLOCK.

C 1
C 2
C 3 DATA TAPE FOR THE 1978-1985 SEISMIC-REFRACTION
C 4 SURVEYS IN NORTHEASTERN CALIFORNIA
C 5
C 6 This tape is part of a three reel set containing seismic-refraction data
C 7 collected by the U.S. Geological Survey. Reel 1 contains the 1978 and
C 8 1981 waveform data written in SEG Y format. Reel 2 contains the 1982 and
C 9 1985 waveform data written in SEG Y format. Reel 3 contains tables 1-7
C10 from Kohler and others, 1987, in unlabelled ASCII format. For further
C11 information, see the accompanying report:
C12
C13 Kohler, W.M., G.S. Fuis, and P.A. Berge, 1987, Data Report for the
C14 1978-1985 Seismic-Refraction Surveys in Northeastern California:
C15 U.S. Geological Survey Open-File Report 87-625, 99 pp.
C16
C17
C18
C19
C20
C21
C22
C23
C24
C25
C26
C27
C28
C29
C30
C31
C32
C33
C34
C35
C36
C37
C38
C39
C40 END EBCDIC

TABLE 6
 SEG Y TAPE REEL IDENTIFICATION HEADER.
 PART 2, THE BINARY CODED BLOCK.

Byte Numbers	Values this data set	Description
.....
3217 -3218	5000	Sampling interval in microseconds
3221 -3222	4001	Maximum number of samples per data trace
3225 -3226	1	Data sample format code: Floating point (4 bytes)
3255 -3256	1	Measurement system: Meters

TABLE 7
SEGY TAPE TRACE IDENTIFICATION HEADER WRITTEN IN BINARY CODE

Byte Numbers -----	Values this data set -----	Description -----
1 - 4	1-N	Trace sequence number within reel--each reel starts with trace number one. Values vary from 1 to the number of traces on the tape.
5 - 8	1-N	Same as bytes 1 - 4.
9 - 12	varies	Station location number.
29 - 30	1	Trace identification code: Seismic data
37 - 40	varies	Shotpoint-to-recorder distance (m).
41 - 44	varies	Surface elevation at recorder (m); all elevations above sea level are positive and below sea level are negative.
45 - 48	varies	Surface elevation at shotpoint (m).
49 - 52	varies	Source depth below surface, a positive number (m).
69 - 70	1	Scalar to be applied to all elevations.
71 - 72	-100	Scalar to be applied to all coordinates.
73 - 76	varies	Shotpoint coordinate - X.
77 - 80	varies	Shotpoint coordinate - Y.
81 - 84	varies	Recorder coordinate - X.
85 - 88	varies	Recorder coordinate - Y.
89 - 90	2	Coordinate units: Seconds of arc.
115 - 116	2001 or 4001	Number of samples in this trace. 1978, 1981, and 1982 traces are 2001 samples long. 1985 traces are 4001 samples long.
117 - 118	5000	Sample interval in microseconds for this trace.
121 - 122	varies	Recorder attenuation in db for this trace. Trace amplitudes have not been adjusted for instrument gain, but the gain correction factor can be estimated from the instrument attenuation value (see Berge and others, 1986).
157 - 158	varies	Shot detonation time - Year.
159 - 160	varies	Shot detonation time - Day.
161 - 162	varies	Shot detonation time - Hour (24 hour clock).
163 - 164	varies	Shot detonation time - Minute.
165 - 166	varies	Shot detonation time - Second.
167 - 168	2	Time basis code: GMT
181 - 182	varies	Shot detonation time - Milliseconds.
183 - 184	varies	Shotpoint location number.
185 - 186	varies	Recorder unit number.
191 - 192	varies	Distance weighting exponent (hundredths).
193 - 194	varies	Shot sequence number (shot number).
195 - 196	varies	Weight of explosives detonated (kg).
197 - 200	varies	Shotpoint-to-station azimuth (seconds of arc).
201 - 204	varies	Digital trace delay time (milliseconds). The time of the first data sample is found by adding the trace delay time to the shot detonation time.