

Line: Location in park on grass Station spacing 2m 1st station 100 Last station \_\_\_\_\_  
 Direction E-W Topo Quad(s) \_\_\_\_\_ Road name/# \_\_\_\_\_ Surveyed? YGPS

Source: Type P812A # \_\_\_\_\_ Stack 4 Receiver: Type P-wave Gph frq 8 Hz  
 Array length/type Hammer 8-16 SP Interval 2m Group Interval 20m Gphs/group 1  
 Seismograph: MGOS Channels: 96-144 Gph Array Length/Type \_\_\_\_\_

Records: Length 1.25 Sample Rate 1ms Personnel: Observer RAW/WJS  
 Hi cut filter \_\_\_\_\_ Low cut filter \_\_\_\_\_ Notch filter \_\_\_\_\_ Src Chief JKO, JFox, Zmaherney

Conditions: Wind calm Temp ~60°F Cable Truck v. Langenheim, Darcy  
 Traffic pedestrians + hounds Moisture Dewy Surveyors m'phee

GPS Coordinates: \_\_\_\_\_ 197  
 Sketches \_\_\_\_\_ 120  
 and \_\_\_\_\_ 317

Remarks

PreAmp Gains:

| File no. | SP no. | Station Location of |       | Remarks (Bad files, skips, reshoots, time, Powerlines, etc.)   |
|----------|--------|---------------------|-------|--|
|          |        | Tr 1                | Tr 72 |  |
| 1001     | 197    | 125                 | 196   | Noise test S-wave stack 1 hit on South   |
| 1002     |        |                     |       | duplicate  |
| 1003     | 197    |                     |       | stack 4 S-wave   |
| 1004     | 197    |                     |       | " S-wave hit on North (opposite)   |
|          |        |                     |       | Switch to P-wave hammer  |
| 1005     | 197    |                     |       | 1 hit  |
| 1006     | 197    |                     |       | stack 4  |
|          |        |                     |       | Decided to use P-wave because of clear refraction and 1st arrival. May be able to use refractor into it no clear reflections. Plus, there is significant S-wave signal on the P-wave record. |
|          |        | 1                   | 120   | (120 live)   |
| 1007     | 100    | 101                 | 220   | Switch to P-wave acquisition   |
| 1008     | 101    |                     |       | Walk through 100-124, then as fixed  |
| 1009     | 102    |                     |       | asymmetric <del>at</del> 1-24 25-120 live  |
| 1010     | 103    |                     |       |  |
| 1011     | 104    |                     |       |  |
| 1012     | 105    |                     |       |  |
| 1013     | 106    |                     |       |  |
| 1014     | 107    |                     |       |  |
| 1015     | 108    |                     |       |  |
| 1016     | 109    |                     |       |  |
| 1017     | 110    |                     |       |  |
| 1018     | 111    |                     |       |  |
| 1019     | 112    |                     |       |  |
| 1020     | 113    |                     |       |  |
| 1021     | 114    |                     |       |  |
| 1022     | 115    |                     |       | 12:09 stop for traffic   |
| 1023     | 116    |                     |       | 12:27 re-start   |

| File no. | SP no. | Station Location of |        | Remarks (Bad files, skips, reshoots, time, Powerlines, etc.) |
|----------|--------|---------------------|--------|--|
|          |        | Tr 1                | Tr 120 |  |
| 1024     | 117    | 101                 | 220    |  |
| 1025     | 118    |                     |        |  |
| 1026     | 119    |                     |        |  |
| 1027     | 120    |                     |        |  |
| 1028     | 121    |                     |        |  |
| 1029     | 122    |                     |        |  |
| 1030     | 123    |                     |        |  |
| 1031     | 124    |                     |        |  |
| 1032     | 125    | 102                 | 220    | Rolling split spread <del>to</del> 1-24/25-120               |
| 1033     | 126    |                     | 221    |  |
| 1034     | 127    |                     |        |  |
| 1035     | 128    |                     |        |  |
| 1036     | 129    |                     | 224    | 12:50  |
| 1037     | 130    |                     | 225    |  |
| 1038     | 131    |                     | 226    |  |
| 1039     | 132    |                     | 227    | } quieter records<br>↓                                       |
| 1040     | 133    |                     | 228    |  |
| 1041     | 134    |                     | 229    |  |
| 1042     | 135    |                     | 230    |  |
| 1043     | 136    |                     |        |  |
| 1044     | 137    |                     |        |  |
| 1045     | 138    |                     |        |  |
| 1046     | 139    |                     |        |  |
| 1047     | 140    |                     |        |  |
| 1048     | 141    |                     |        |  |
| 1049     | 142    |                     |        | BAD RECORD   |
| 1050     | 142    |                     |        | re-shoot   |
| 1051     | 143    | 119                 | 238    |  |
| 1052     | 144    |                     |        |  |
| 1053     | 145    |                     |        |  |
| 1054     | 146    |                     |        |  |
| 1055     | 147    |                     |        |  |
| 1056     | 148    |                     |        |  |
| 1057     | 149    |                     | 244    | New hammerer Jeff  |
| 1058     | 150    |                     |        |  |
| 1059     | 151    |                     |        |  |
| 1060     | 152    |                     |        |  |
| 1061     | 153    |                     |        |  |
| 1062     | 154    |                     |        |  |
| 1063     | 155    |                     |        | 6:22 PM  |
| 1064     | 156    |                     |        |  |
| 1065     | 157    |                     |        |  |
| 1066     | 158    | 134                 | 253    |  |
| 1067     | 159    |                     |        |  |
| 1068     | 160    |                     |        |  |



| File no.        | SP no. | Station Location of |     | Remarks (Bad files, skips, reshoots, time, Powerlines, etc.) |
|-----------------|--------|---------------------|-----|--|
|                 |        | Tr                  | Tr  |  |
| 1069            | 161    |                     |     |  |
| 1070            | 162    | 138                 | 257 |  |
| 1071            | 163    |                     |     |  |
| 1072            | 164    |                     |     |  |
| 1073            | 165    |                     |     |  |
| 1074            | 166    |                     |     |  |
| 1075            | 167    |                     |     |  |
| 1076            | 168    | 144                 | 263 |  |
| 1077            | 169    |                     |     |  |
| 1078            | 170    |                     |     |  |
| 1079            | 171    |                     |     | 1:39   |
| 1080            | 172    |                     |     |  |
| 1081            | 173    |                     |     |  |
| 1082            | 174    |                     |     |  |
| 1083            | 175    |                     |     |  |
| 1084            | 176    | 152                 | 271 |  |
| 1085            | 177    |                     |     |  |
| 1086            | 178    |                     |     |  |
| 1087            | 179    |                     |     |  |
| <del>1088</del> | 180    |                     |     |  |
| 1089            | 181    |                     |     |  |
| 1090            | 182    |                     |     |  |
| 1091            | 183    |                     |     |  |
| 1092            | 184    | 160                 | 279 |  |
| 1093            | 185    |                     |     | ASPHALT  |
| 1094            | 186    |                     |     | ↓ good record  |
| 1095            | 187    |                     |     | 2:05   |
| 1096            | 188    |                     |     |  |
| 1097            | 189    |                     |     |  |
| 1098            | 190    |                     |     |  |
| 1099            | 191    |                     |     |  |
| 1100            | 192    |                     |     |  |
| 1101            | 193    |                     |     |  |
| 1102            | 194    |                     |     | ↓  |
| 1103            | 195    |                     |     | Soil-ivy   |
| 1104            | 196    |                     |     | " "  |
|                 |        |                     |     | GOOD MOVE 2:17   |
| 1105            | 197    | 173                 | 292 | 5:00 PM  |
| 1106            | 198    |                     | 3   |  |
| 1107            | 199    |                     | 4   |  |
| 1108            | 200    |                     | 5   |  |
| 1109            | 201    |                     | 6   |  |
| 1110            | 202    |                     |     |  |
| 1111            | 203    | 179                 | 298 | NOISY  |
| 1112            | 204    |                     |     |  |

| File no. | SP no. | Station Location of |     | Remarks (Bad files, skips, reshoots, time, Powerlines, etc.) |
|----------|--------|---------------------|-----|--|
|          |        | Tr                  | Tr  |  |
| 1113     | 205    |                     |     |  |
| 1114     | 206    | 182                 | 301 |  |
| 1115     | 207    |                     |     | 315  |
| 1116     | 208    |                     |     | 305  |
| 1117     | 209    |                     |     | 295  |
| 1118     | 210    |                     |     | 292  |
| 1119     | 211    |                     |     |  |
| 1120     | 212    |                     |     |  |
| 1121     | 213    |                     |     |  |
| 1122     | 214    |                     |     |  |
| 1123     | 215    |                     |     | Noisy  |
| 1124     | 216    |                     |     | Noisy  |
| 1125     | 217    |                     |     |  |
| 1126     | 218    |                     |     |  |
| 1127     | 219    | 195                 | 314 |  |
| 1128     | 220    | 6                   | 315 |  |
| 1129     | 221    | 7                   | 316 | 3:24   |
| 1130     | 222    | 8                   | 317 | Noisy  |
| 1131     | 223    | 199                 | 318 |  |
|          | 224    |                     |     |  |
| 1132     | 197    | <del>173</del>      | 292 | RE-SHOOT 3:45  |
| 1133     | 198    |                     |     |  |
| 1134     | 199    |                     |     |  |
| 1135     | 200    |                     |     |  |
| 1136     | 201    |                     |     |  |
| 1137     | 202    |                     |     |  |
| 1138     | 203    |                     |     |  |
| 1139     | 204    |                     |     |  |
| 1140     | 205    |                     |     |  |
| 1141     | 206    |                     |     |  |
| 1142     | 207    |                     |     |  |
| 1143     | 208    |                     |     |  |
| 1144     | 209    |                     |     |  |
| 1145     | 210    |                     |     |  |
| 1146     | 211    |                     |     |  |
| 1147     | 212    | 16                  |     |  |
| 1148     | 213    | 17                  |     |  |
| 1149     | 214    | 18                  |     |  |
| 1150     | 215    | 19                  |     |  |
| 1151     | 216    | 20                  |     |  |
| 1152     | 217    | 21                  |     |  |
| 1153     | 218    | 22                  |     |  |
| 1154     | 219    | 23                  |     |  |
| 1155     | 220    | 24                  |     | EOD 4:20   |

Noisy } Box at  
 292-315 hooked into GEODE AT  
 both ends; Have to  
 re-shoot

Noisy }

3:24

Noisy

RE-SHOOT 3:45

| File no. | SP no. | Station Location of |     | Remarks (Bad files, skips, reshoots, time, Powerlines, etc.) |
|----------|--------|---------------------|-----|--|
|          |        | Tr                  | Tr  |  |
| 1156     | 221    | 197                 | 316 |  |
| 1157     | 222    |                     |     | Swapped REAR AT 268 - noisy                                  |
| 1158     | 223    |                     |     | 9:25 No difference - appears to be related to the shot line  |
| 1159     | 224    |                     |     |  |
| 1160     | 225    |                     |     |  |
| 1161     | 226    |                     |     |  |
| 1162     | 227    |                     |     |  |
| 1163     | 228    |                     |     |  |
| 1164     | 229    |                     |     |  |
| 1165     | 230    | 206                 | 325 |  |
| 1166     | 231    |                     |     |  |
| 1167     | 232    |                     |     | 9:42   |
| 1168     | 233    |                     |     |  |
| 1169     | 234    |                     |     | Bill Steph. hitting  |
| 1170     | 235    |                     |     | ↓  |
| 1171     | 236    |                     |     |  |
| 1172     | 237    |                     |     |  |
| 1173     | 238    |                     |     |  |
| 1174     | 239    |                     |     |  |
| 1175     | 240    |                     |     |  |
| 1176     | 241    |                     |     |  |
| 1177     | 242    |                     |     | new hammerer - Jeff  |
| 1178     | 243    |                     |     |  |
| 1179     | 244    |                     |     |  |
| 1180     | 245    |                     |     |  |
| 1181     | 246    |                     |     | 10:01  |
| 1182     | 247    |                     |     |  |
| 1183     | 248    |                     |     |  |
| 1184     | 249    |                     |     |  |
| 1185     | 250    |                     |     |  |
| 1186     | 251    |                     |     |  |
| 1187     | 252    |                     |     |  |
| 1188     | 253    |                     |     |  |
| 1189     | 254    |                     |     |  |
| 1190     | 255    |                     |     |  |
| 1191     | 256    |                     |     |  |
| 1192     | 257    |                     |     |  |
| 1193     | 258    |                     |     |  |
| 1194     | 259    |                     |     |  |
| 1195     | 260    |                     |     | asphalt (road vring)   |
| 1196     | 261    |                     |     | ↓  |
| 1197     | 262    |                     |     |  |
| 1198     | 263    |                     |     |  |
| 1199     | 264    |                     |     |  |



| File no. | SP no. | Station Location of |     | Remarks (Bad files, skips, reshoots, time, Powerlines, etc.) |
|----------|--------|---------------------|-----|--|
|          |        | Tr                  | Tr  |  |
| 1200     | 265    | 241                 | 360 |  |
| 1201     | 266    |                     |     |  |
| 1202     | 267    | 243                 | 362 |  |
| 1203     | 268    | 244                 | 363 |  |
| 1204     | 269    | 245                 | 364 |  |
| 1205     | 270    | 246                 | 365 |  |
| 1206     | 271    | 247                 | 366 |  |
| 1207     | 272    | 248                 | 367 |  |
| 1208     | 273    | 249                 | 368 |  |
| 1209     | 274    | 250                 | 369 |  |
| 1210     | 275    | 251                 | 370 |  |
| 1211     | 276    | 252                 | 371 |  |
| 1212     | 277    | 253                 | 372 |  |
| 1213     | 278    | 254                 | 373 |  |
| 1214     | 279    | 255                 | 374 | - no phone   |
| 1215     | 280    | 256                 | 375 |  |
| 1216     | 281    | 257                 | 376 |  |
| 1217     | 282    | 258                 | 377 |  |
| 1218     | 283    | 259                 | 378 |  |
| 1219     | 284    | 260                 | 379 |  |
| 1220     | 285    | 261                 | 380 |  |
| 1221     | 286    | 262                 | 381 |  |
| 1222     | 287    | 263                 | 382 |  |
| 1223     | 288    | 264                 | 383 |  |
| 1224     | 289    | 265                 | 384 |  |
| 1225     | 290    | 266                 | 385 |  |
| 1226     | 291    | 267                 | 386 |  |
| 1227     | 292    | 268                 | 387 |  |
| 1228     | 293    | 269                 | 388 | Begin roll through (120 live)                                |
| 1229     | 294    |                     |     |  |
| 1230     | 295    |                     |     |  |
| 1231     | 296    |                     |     |  |
| 1232     | 297    |                     |     |  |
| 1233     | 298    |                     |     |  |
| 1234     | 299    |                     |     |  |
| 1235     | 300    |                     |     |  |
| 1236     | 301    |                     |     |  |
| 1237     | 302    |                     |     |  |
| 1238     | 303    |                     |     |  |
| 1239     | 304    |                     |     |  |
| 1240     | 305    |                     |     |  |
| 1241     | 306    |                     |     |  |
| 1242     | 307    |                     |     |  |
| 1243     | 308    |                     |     |  |
| 1244     | 309    |                     |     |  |

*p-wave*

| File no. | SP no.         | Station Location of |     | Remarks (Bad files, skips, reshoots, time, Powerlines, etc.) |
|----------|----------------|---------------------|-----|--|
|          |                | Tr                  | Tr  |  |
| 1245     | 310            | 269                 | 388 |  |
| 1246     | 311            |                     |     |  |
| 1247     | 312            |                     |     |  |
| 1248     | 313            |                     |     |  |
| 1249     | 314            |                     |     |  |
| 1250     | 315            |                     |     |  |
| 1251     | 316            |                     |     | 11:57  |
| 1252     | 317            |                     |     | Lunch  |
| 1253     | 318            |                     |     | 12:30  |
| 1254     | 319            |                     |     |  |
| 1255     | 320            |                     |     |  |
| 1256     | 321            |                     |     |  |
| 1257     | 322            |                     |     |  |
| 1258     | 323            |                     |     |  |
| 1259     | 324            |                     |     |  |
| 1260     | 325            |                     |     |  |
| 1261     | 326            |                     |     |  |
| 1262     | 327            |                     |     |  |
| 1263     | 328            |                     |     |  |
| 1264     | 329            |                     |     |  |
| 1265     | 330            |                     |     |  |
| 1266     | 331            |                     |     |  |
| 1267     | 332            |                     |     |  |
| 1268     | 333            |                     |     |  |
| 1269     | 334            |                     |     |  |
| 1270     | 335            |                     |     |  |
| 1271     | 336            |                     |     | 12:56  |
| 1272     | 337            |                     |     |  |
| 1273     | 338            |                     |     |  |
| 1274     | 339            |                     |     |  |
| 1275     | 340            |                     |     |  |
| 1276     | 341            |                     |     |  |
| 1277     | 342            |                     |     |  |
| 1278     | <del>343</del> |                     |     |  |
| 1279     | 344            |                     |     | Asphalt walk near playground (west end of park)              |
| 1280     | 345            |                     |     | Good records   |
| 1281     | 346            |                     |     |  |
| 1282     | 347            |                     |     |  |
| 1283     | 348            |                     |     |  |
| 1284     | 349            |                     |     | 1:22   |
| 1285     | 350            |                     |     |  |
| 1286     | 351            |                     |     | Good one   |
| 1287     | 352            |                     |     | ll ci  |
| 1288     | 353            |                     |     |  |
| 1289     | 354            |                     |     | Radio noise - otherwise good                                 |

| File no. | SP no. | Station Location of |     | Remarks (Bad files, skips, reshoots, time, Powerlines, etc.) |
|----------|--------|---------------------|-----|--|
|          |        | Tr                  | Tr  |  |
| 1290     | 355    | 269                 | 388 | Shoot through cord.  |
| 1291     | 356    | ↓                   | ↓   | radio noise  |
| 1292     | 357    | ↓                   | ↓   | } NOISE 315-340  |
| 1293     | 358    | ↓                   | ↓   |  |
| 1294     | 359    | ↓                   | ↓   |  |
| 1295     | 360    |                     |     |  |
| 1296     | 361    |                     |     |  |
| 1297     | 362    |                     |     |  |
| 1298     | 363    |                     |     |  |
| 1299     | 364    |                     |     |  |
| 1300     | 365    |                     |     |  |
| 1301     | 366    |                     |     |  |
| 1302     | 367    |                     |     |  |
| 1303     | 368    |                     |     |  |
| 1304     | 369    |                     |     |  |
| 1305     | 370    |                     |     |  |
| 1306     | 371    |                     |     | 2:00 Investigating noise                                     |
| 1307     | 372    |                     |     | Switched out Geade & pigtail at 340                          |
| 1308     | 373    |                     |     |  |
| 1309     | 374    |                     |     |  |
| 1310     | 375    |                     |     |  |
| 1311     | 376    |                     |     |  |
| 1312     | 377    |                     |     |  |
| 1313     | 378    |                     |     |  |
| 1314     | 379    |                     |     |  |
| 1315     | 380    |                     |     |  |
| 1316     | 381    |                     |     |  |
| 1317     | 382    |                     |     |  |
| 1318     | 383    |                     |     |  |
| 1319     | 384    |                     |     |  |
| 1320     | 385    |                     |     |  |
| 1321     | 386    |                     |     |  |
| 1322     | 387    |                     |     |  |
| 1323     | 388    |                     |     | 2:42 EOL   |



Project Santa Rosa CA Line Donk Park Date 9/25/08 Archive on \_\_\_\_\_ Page # 1 of 3  
 Line: Location S-wave Station spacing 2m 1st station 197 Last station 388  
 Direction E-W Topo Quad(s) \_\_\_\_\_ Road name/# \_\_\_\_\_ Surveyed? 4-6PS  
 Source: Type \_\_\_\_\_ # \_\_\_\_\_ Stack 8 North side Receiver: Type S-wave Gph frq 4.5  
 Array length/type \_\_\_\_\_ / \_\_\_\_\_ SP Interval 1/2m Group Interval 2m Gphs/group 1  
 Seismograph: \_\_\_\_\_ Channels: 96-144 Gph Array Length/Type 1 /  
 Records: Length 2.0s Sample Rate 2.0m Personnel: Observer Williams, Stephenson  
 Hi cut filter out Low cut filter out Notch filter out Src Chief Maharrey, Fox,  
 Conditions: Wind 0-3 Temp 60-80 Cable Truck Odum, Langenheim  
 Traffic foot-dog traffic in the park Moisture dry Surveyors Darcy McPhee

GPS Coordinates:

Sketches

and

Remarks

PreAmp Gains:

Occupying the same stations as the P-wave hammer survey.

| File no. | SP no. | Station Location of |     | Remarks (Bad files, skips, reshoots, time, Powerlines, etc.) |
|----------|--------|---------------------|-----|--|
|          |        | Tr                  | Tr  |  |
| 2001     | 198    |                     |     | Stack 8 North side not Metallica                             |
| 2002     | 198    |                     |     | Stack 8 metallica - better record                            |
| 2003     | 200    |                     |     | using metallica  |
| 2004     | 202    |                     |     |  |
| 2005     | 204    |                     |     |  |
| 2006     | 206    | 201                 | 320 |  |
| 2007     | 208    | 202                 | 320 | holding spread   |
| 2008     | 210    | 202                 | 321 |  |
| 2009     | 212    |                     |     | 9:30 Am  |
| 2010     | 214    |                     |     |  |
| 2011     | 216    |                     |     |  |
| 2012     | 218    |                     |     |  |
| 2013     | 220    |                     |     |  |
| 2014     | 222    |                     |     |  |
| 2015     | 224    |                     |     |  |
| 2016     | 226    |                     |     |  |
| 2017     | 228    |                     |     |  |
| 2018     | 230    |                     |     |  |
| 2019     | 232    |                     |     |  |
| 2020     | 234    |                     |     |  |
| 2021     | 236    |                     |     | Noisy 10:03  |
| 2022     | 238    |                     |     |  |
| 2023     | 240    |                     |     |  |
| 2024     | 242    |                     |     |  |
| 2025     | 244    |                     |     |  |
| 2026     | 246    |                     |     |  |
| 2027     | 248    |                     |     | New hammers  |
| 2028     | 250    | 202                 | 321 |  |
| 2029     | 252    | 202                 | 321 |  |

S-wave

| File no.        | SP no. | Station Location of |     | Remarks (Bad files, skips, reshoots, time, Powerlines, etc.) |
|-----------------|--------|---------------------|-----|--|
|                 |        | Tr                  | Tr  |  |
| 2030            | 254    | 203                 | 322 | rolling the spread now                                       |
| 2031            | 256    | 208                 | 323 | changed to 2 station spread roll up                          |
| 2032            | 258    | 210                 | 325 |  |
| 2033            | 260    |                     |     | hammer at 258  |
| 2034            | 262    | 214                 | 329 | " "  |
| 2035            | 264    | 216                 | 331 | " @ 264 10:45 Am   |
| 2036            | 266    | 218                 | 333 | "  |
| 2037            | 268    | 220                 | 335 |  |
| 2038            | 270    | 222                 | 337 |  |
| 2039            | 272    | 224                 | 339 |  |
| 2040            | 274    | 226                 | 364 |  |
| 2041            | 276    | 228                 | 364 |  |
| 2042            | 278    | 221                 | 364 | holding spread   |
| 2043            | 280    |                     |     |  |
| 2044            | 282    |                     |     |  |
| 2045            | 284    |                     |     | 11:30  |
| 2046            | 286    |                     |     | Lunch - checked out of Quality Inn                           |
| 2047            | 288    |                     |     |  |
| 2048            | 290    |                     |     |  |
| 2049            | 292    |                     |     |  |
| 2050            | 294    |                     |     |  |
| 2051            | 296    |                     |     |  |
| 2052            | 298    |                     |     |  |
| 2053            | 300    |                     |     | 1:45 Restart line  |
| 2054            | 302    | 245                 | 388 | ←  |
| 2055            | 304    |                     |     |  |
| 2056            | 306    |                     |     |  |
| 2057            | 308    |                     |     |  |
| 2058            | 310    |                     |     |  |
| 2059            | 312    |                     |     |  |
| 2060            | 314    |                     |     |  |
| 2061            | 316    |                     |     |  |
| 2062            | 318    |                     |     |  |
| 2063            | 320    |                     |     |  |
| 2064            | 322    |                     |     |  |
| 2065            | 324    |                     |     |  |
| 2066            | 326    |                     |     |  |
| 2067            | 328    |                     |     |  |
| 2068            | 330    |                     |     |  |
| <del>2069</del> | 332    |                     |     |  |
| 2070            | 334    |                     |     |  |
| 2071            | 336    |                     |     |  |
| 2072            | 338    |                     |     | 2:45   |
| 2073            | 340    |                     |     |  |
| 2074            | 342    |                     |     |  |

