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UNITED STATES DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

SAUDI ARABIAN MISSION

MISCELLANEOUS DOCUMENT 17



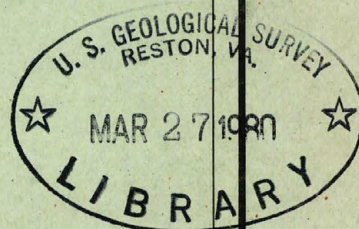
SAUDI ARABIA SEISMIC REFRACTION PROFILE

DATA SET, VOLUMES 1 AND 2

by

Ralph Lamson and Laurel Leone

304486



PREPARED FOR
DIRECTORATE GENERAL OF MINERAL RESOURCES
MINISTRY OF PETROLEUM AND MINERAL RESOURCES
JIDDAH, SAUDI ARABIA
1980

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SAUDI ARABIA SEISMIC REFRACTION PROFILE

DATA SET, VOLUME I

by

Ralph Lamson and Laurel Leone

U.S. Geological Survey
345 Middlefield Road
Menlo Park, California 94025

Open-File Report

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SAUDI ARABIA SEISMIC REFRACTION PROFILE
DATA SET, VOLUME 1

by

Ralph Lamson¹ and Laurel Leone¹

INTRODUCTION

The Arabian Shield has long attracted the interest of geologists and geophysicists because of its extraordinary geologic exposures and topographic expressions. In the last 20 years extensive geologic mapping, gravity, and magnetic investigations have been conducted which provide a general framework for the structure of the Arabian Shield. Prior to the present study, though, no seismic refraction studies have been made to complement and broaden basic understanding of the shield.

The U.S. Geological Survey took the opportunity to design a deep seismic refraction profile across the Arabian Shield to clarify some long-standing arguments regarding deep structure and origin of the shield and southeastern Red Sea. The profile extended 1000 km southwest of Riyadh, traversed a 3050 m (average height) erosional escarpment, crossed an oceanic-continental rift zone on the coastal plain and terminated at a small island near the outer reaches of the Farasan Islands in the Red Sea. The study was completed in February 1978 under an agreement between the U.S. Geological Survey and the Ministry of Petroleum and Mineral Resources of the Kingdom of Saudi Arabia.

The project was designed to probe the crust beneath these regions and to provide information on thickness, structure, and bulk composition of the crust to depths on the order of the Mohorovicic discontinuity (40 km or more). Seismic energy was provided by explosives detonated in drill holes at five land shot points. A sixth shot point was established on the sea floor by lowering explosives and detonating them from a ship.

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California 94025

Initial plans, field operations, instrumentation, and preliminary results are reported in U.S. Geological Survey/Saudi Arabian Publication 234, "Geophysical Investigations in Saudi Arabia", and Publication 259, "Seismic Refraction Profile, Kingdom of Saudi Arabia".

This report is a sequel to the previous publications. It is primarily concerned with the presentation of processed data shown in tables and illustrations. The report includes Volumes I and II.

Volume I gives a description of the plotting format used to obtain single-page plots of a seismic record from each recorder location. The description is followed by single-page plots of first arrivals for stations along the entire refraction profile.

Volume II shows the current Master Shot List and Team-Shot Data printouts. It includes a description of the programs used to compile pertinent data on shot points, recorder locations, and seismic records.

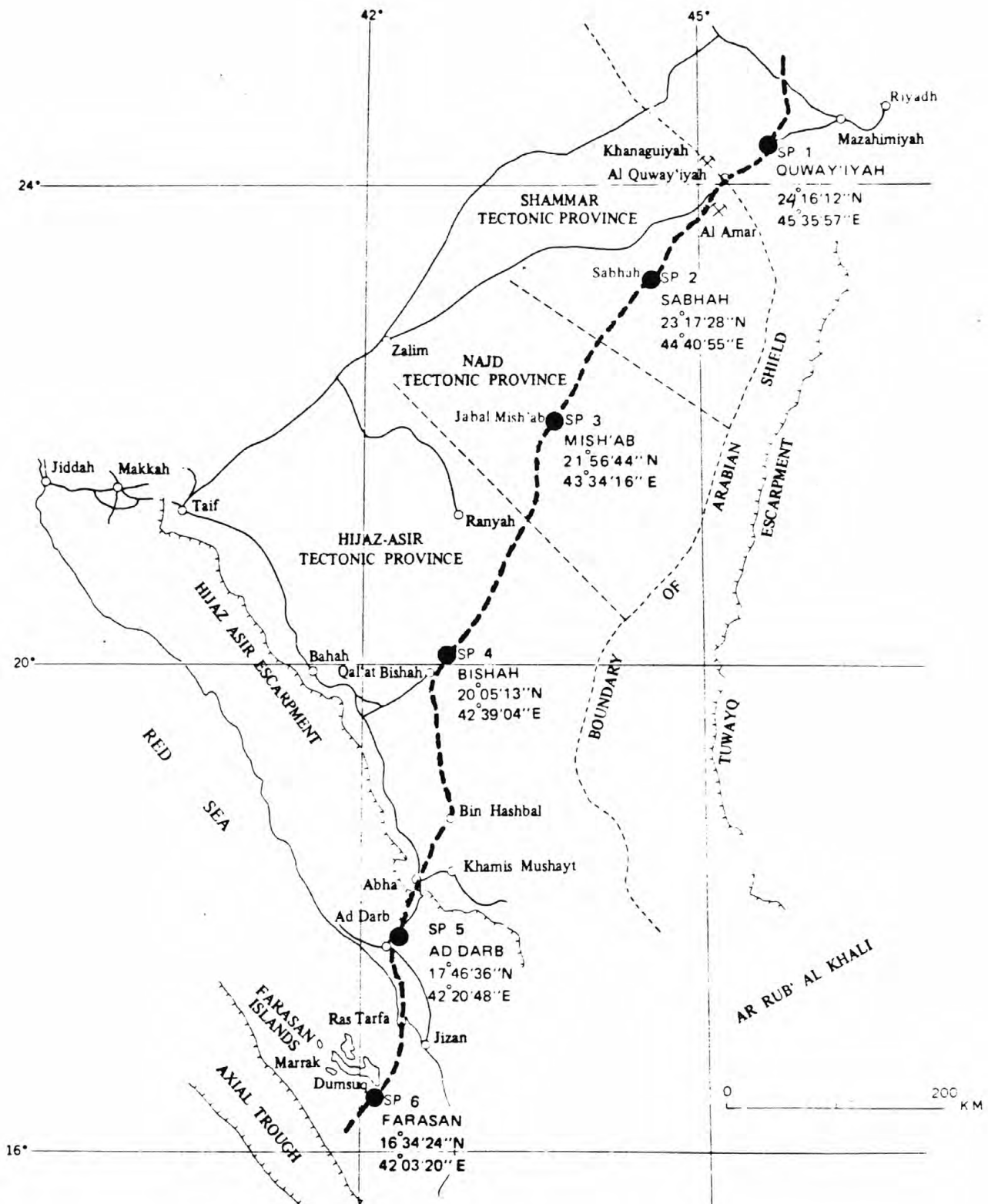


Figure 1. Index map of western Saudi Arabia showing the seismic refraction line (dashed) and shot points (SP). Paved access roads shown by solid lines. [Taken from Geological Survey Saudi Arabian Mission Report 259, p. 4 (copy included in data set)].

Description of Plotting Format

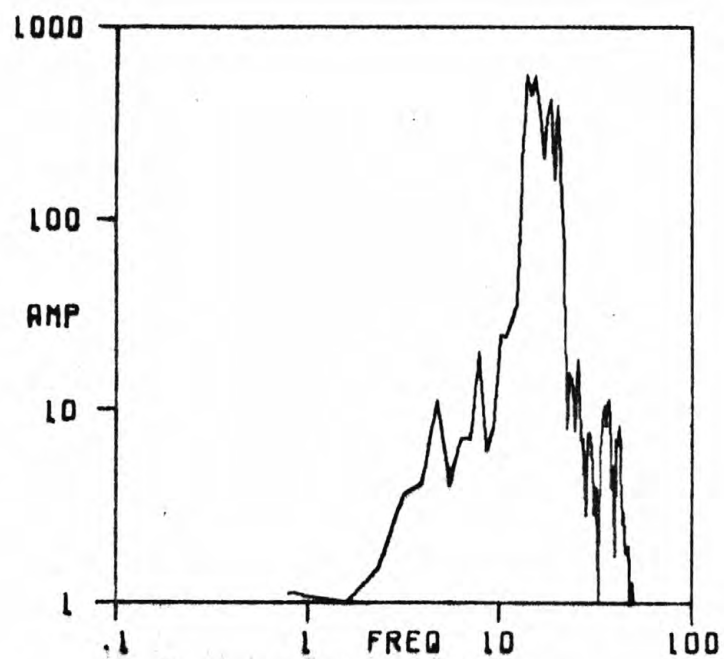
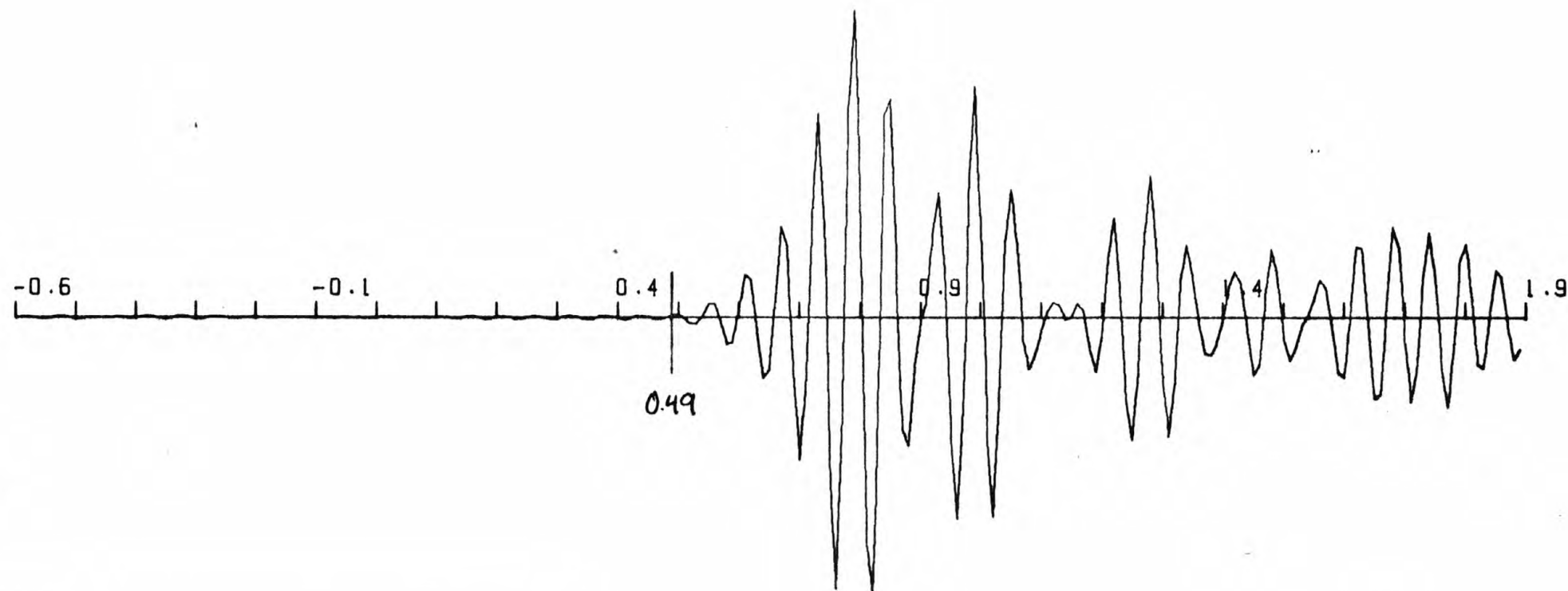
Each of the more than 800 single-page plots which follow show $2\frac{1}{2}$ seconds of the seismic record from a given recorder location, and most of them include the arrival of the shot energy. Data was digitized at a sampling rate of 100 points per second, so each plot consists of 250 points. The time scale for every plot is 10 cm per second. Shot point and recorder location numbers are indicated, as well as the distance of the recorder from the shot. The plots are arranged in sections by shot point, and within each section first by direction (northeast or southwest) and then by distance from shot point (cf. map of profile line, p. iii). There is at least one plot of each record for which a first arrival has been determined, and on most plots, the preliminary pick is marked and timed.

There are two or more plots for those records where changes in frequency filtering were thought to make the seismic energy more easily distinguishable from the ground noise. Plots are either unfiltered (no designation) or filtered with high pass (HP), low pass (LP) or band pass (BP).

The graph in the lower left of each page represents the fast Fourier transform of the last 128 points of the seismogram (approximately the last half of the record). A more general description of the processing and plotting system can be found in the Geological Survey Saudi Arabian Mission Project Report 259, pp. 25-33.

First Arrivals
Southwest from Shot Point 1
(2.1 to 330.5 km)

1a



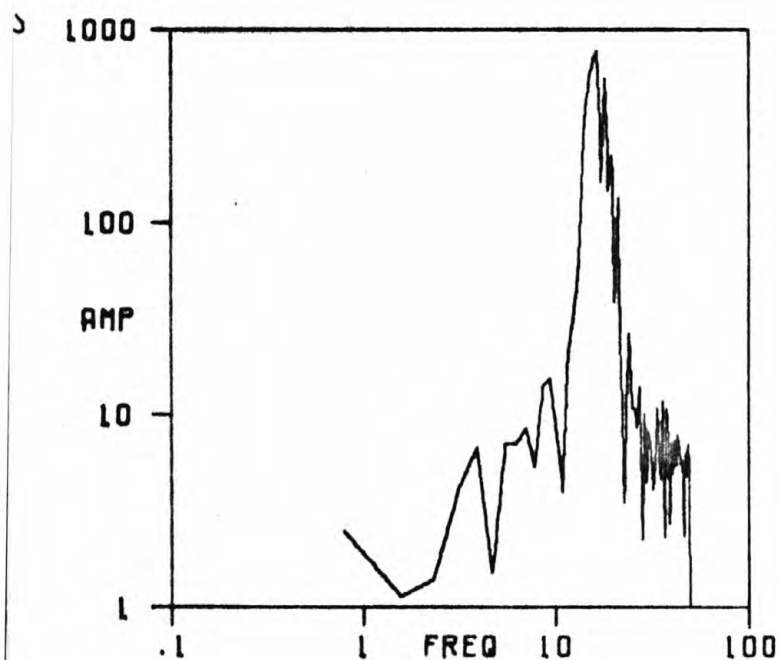
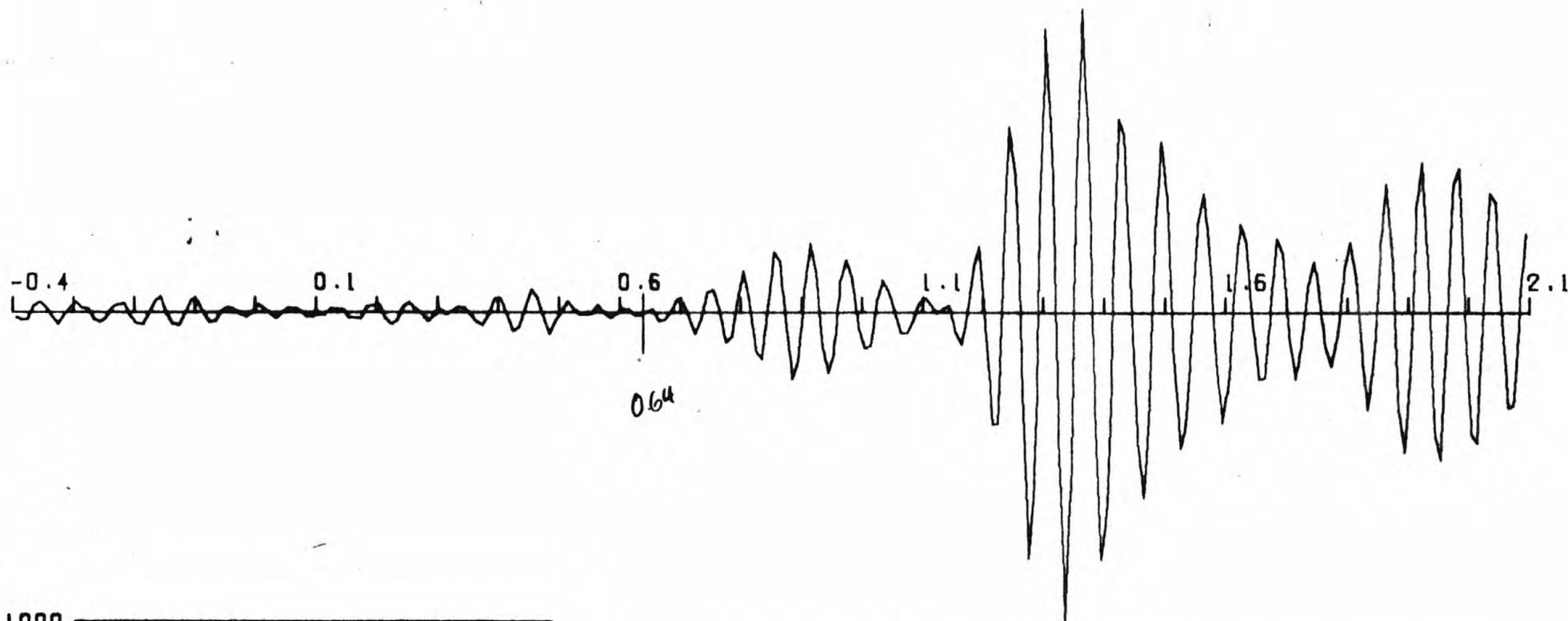
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 1

RECORDER LOCATION 227

DISTANCE FROM SHOT (KM) = -2.114

TSCALE (CM/SEC) = 10.0



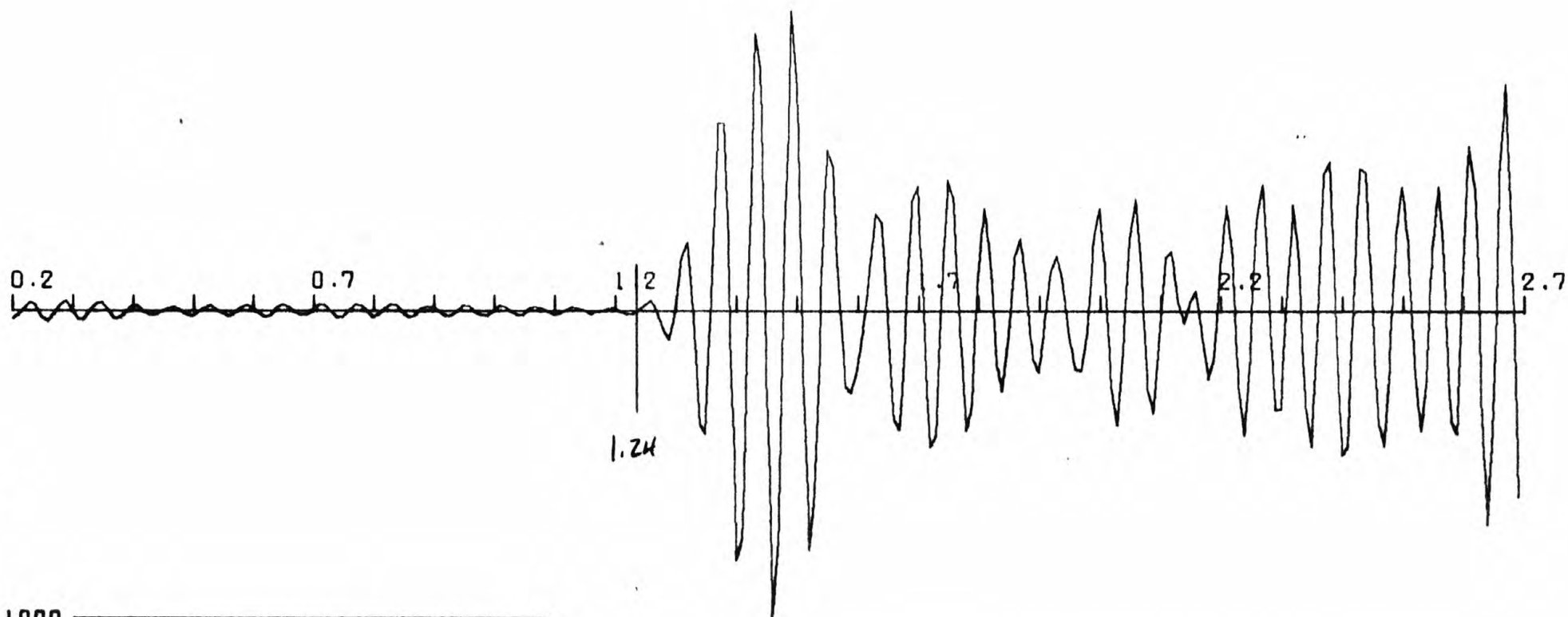
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 1

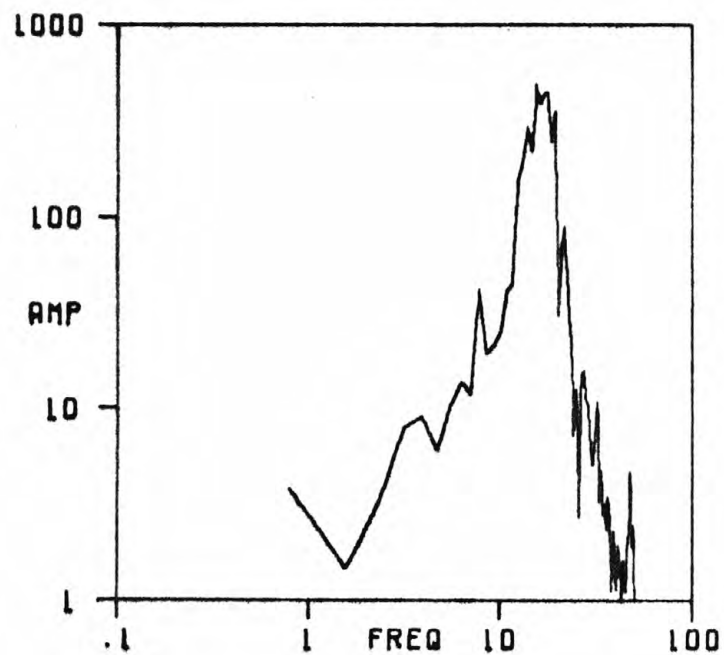
RECORDER LOCATION 228

DISTANCE FROM SHOT (KM) = -3.338

TSCALE (CM/SEC) = 10.0



3



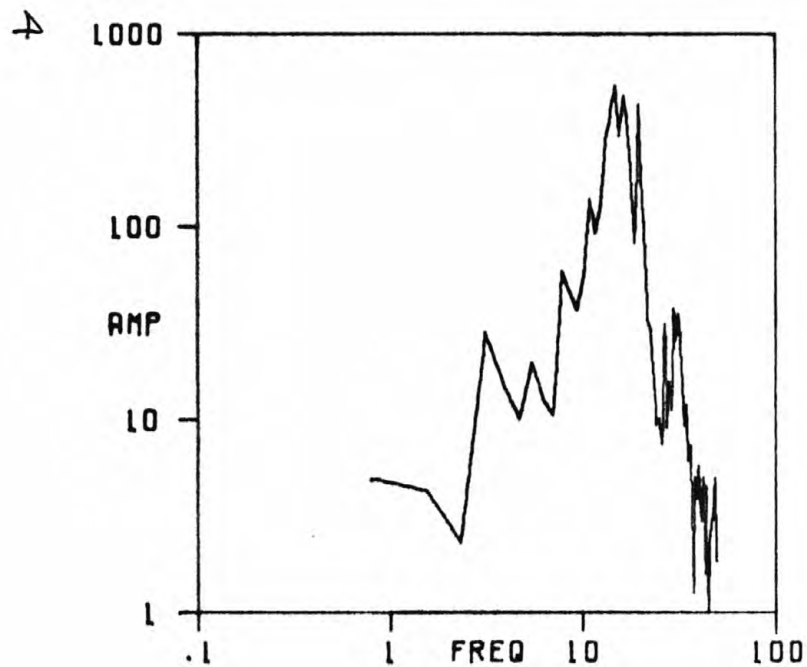
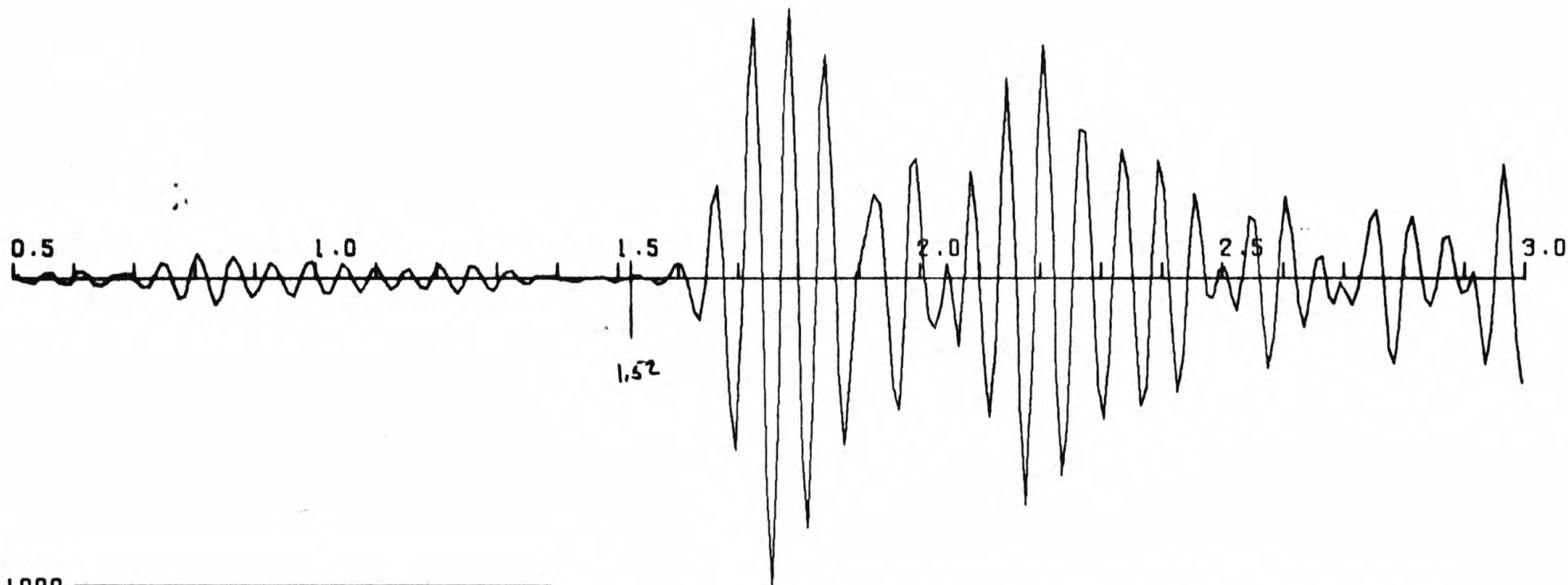
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 1

RECORDER LOCATION 229

DISTANCE FROM SHOT (KM) = -6.723

TSCALE (CM/SEC) = 10.0



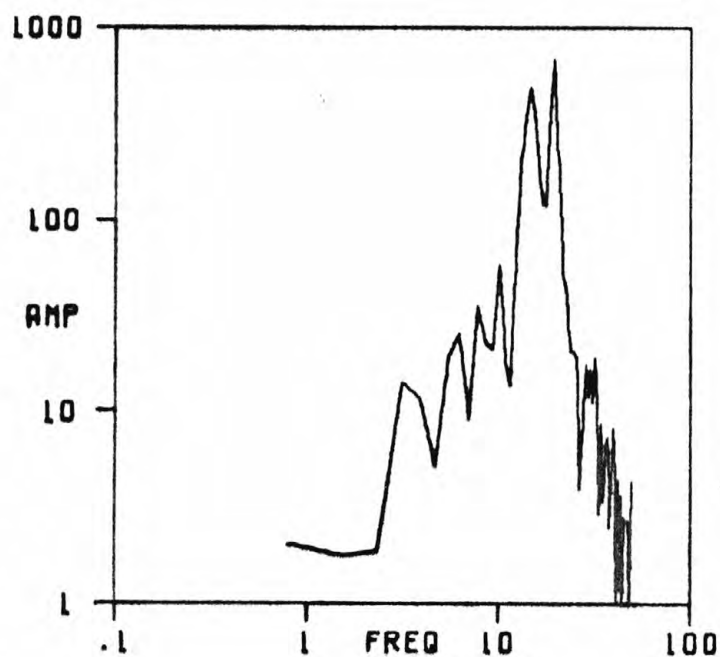
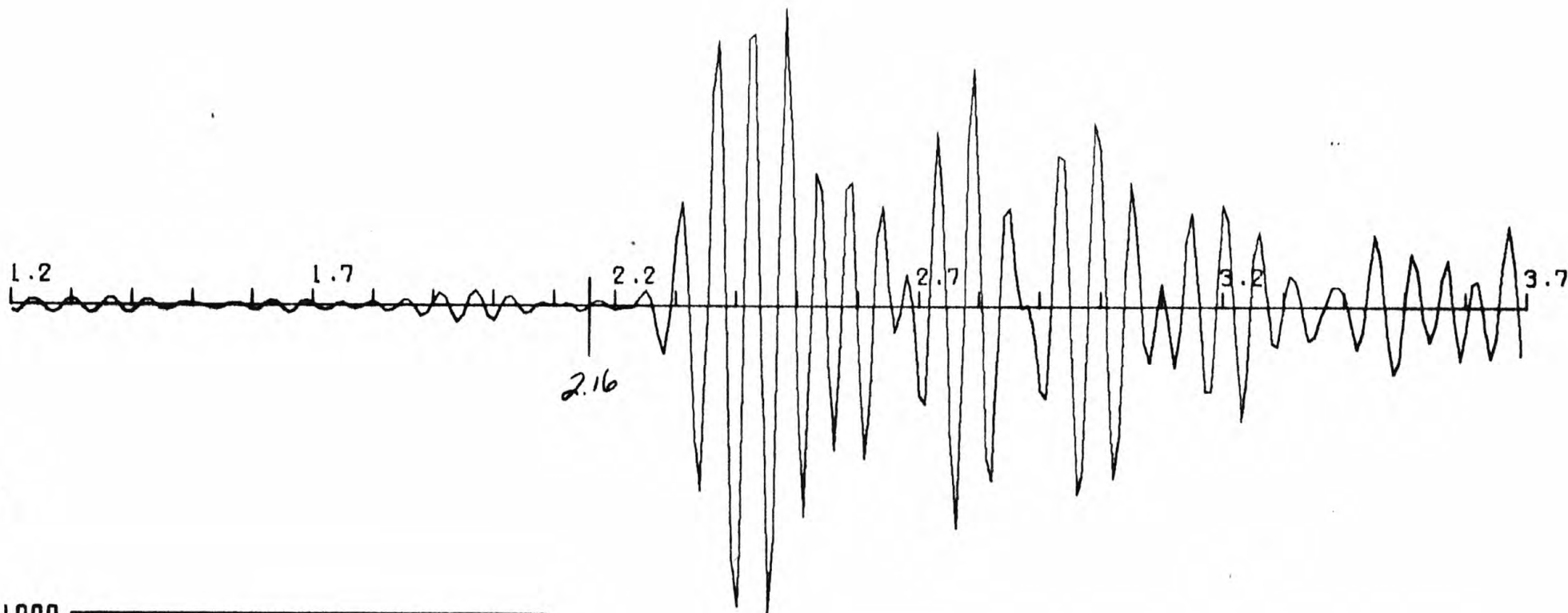
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 1

RECORDER LOCATION 230

DISTANCE FROM SHOT (KM) = -8.741

TSCALE (CM/SEC) = 10.0



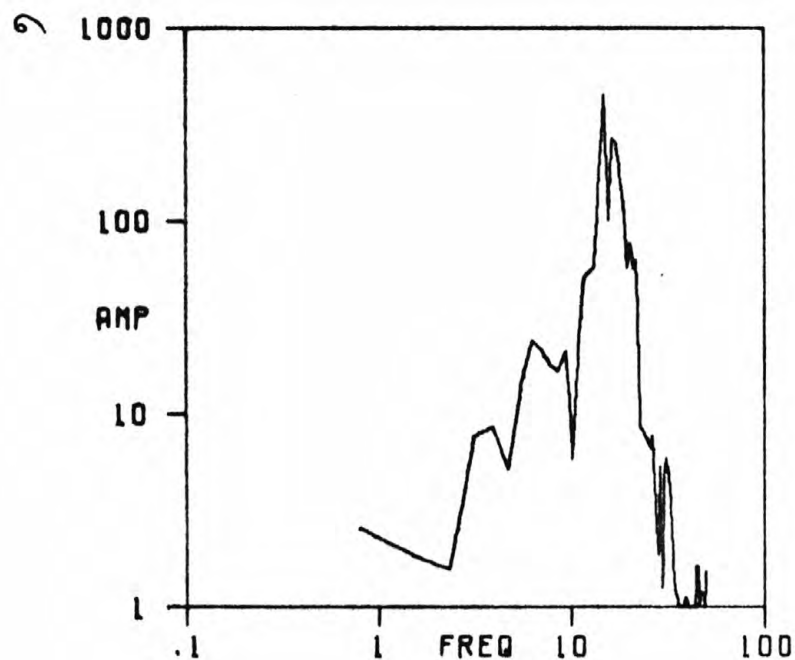
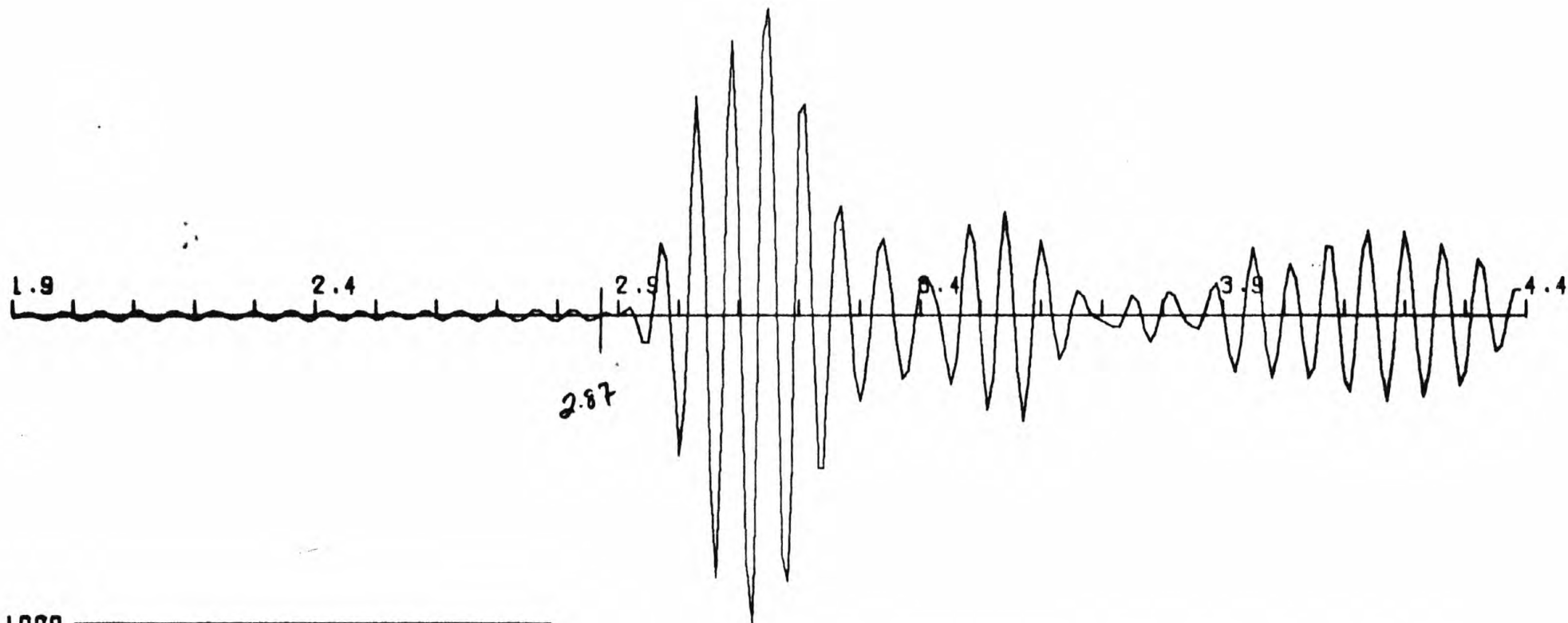
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 1

RECORDER LOCATION 232

DISTANCE FROM SHOT (KM) = -12.797

TSCALE (CM/SEC) = 10.0



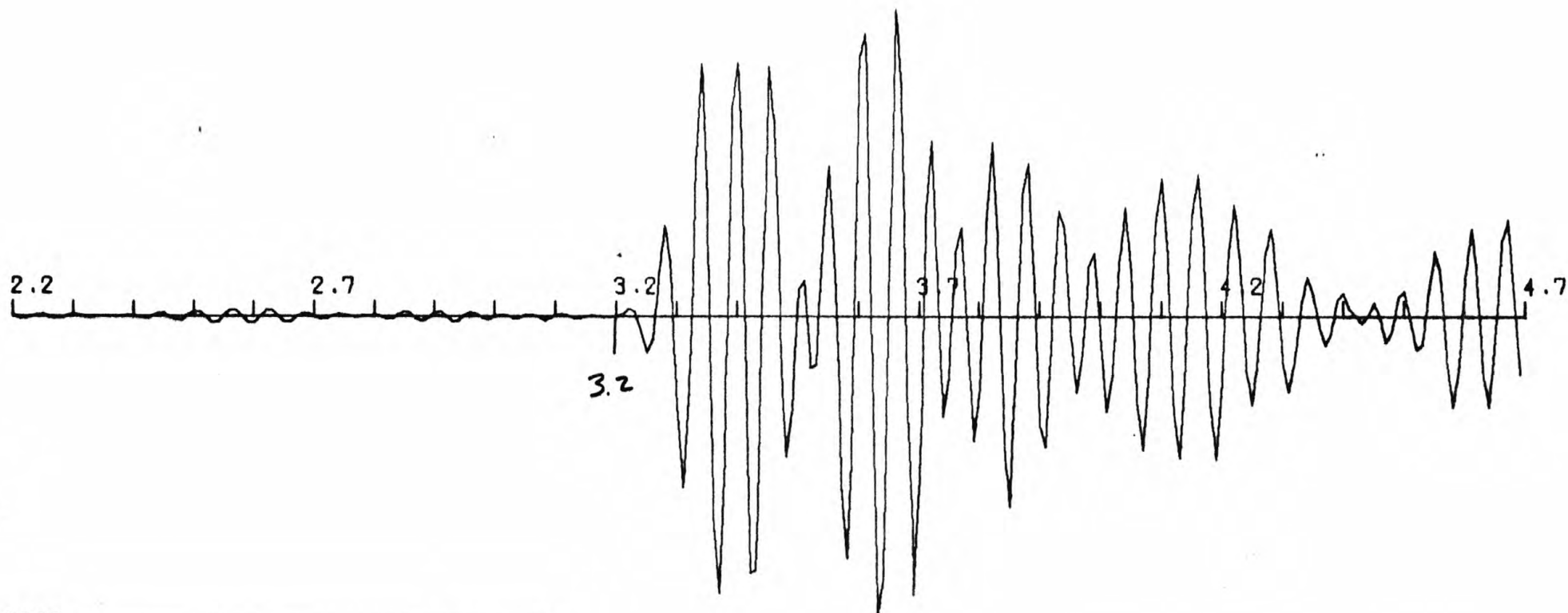
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 1

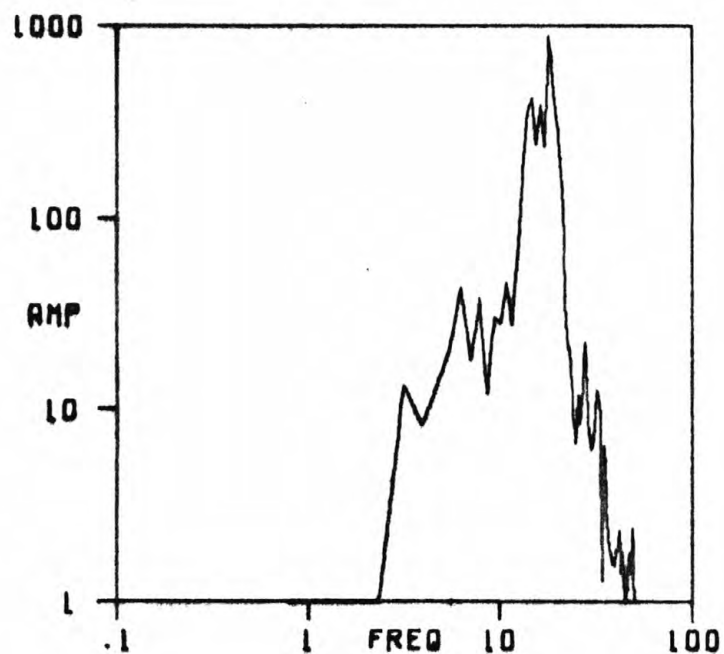
RECORDER LOCATION 234

DISTANCE FROM SHOT (KM) = -16.813

TSCALE (CM/SEC) = 10.0



7



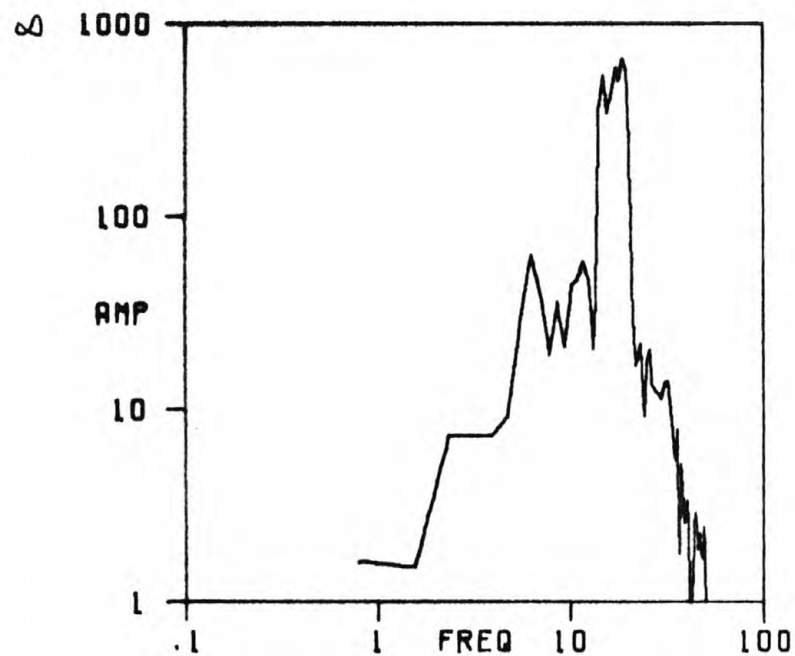
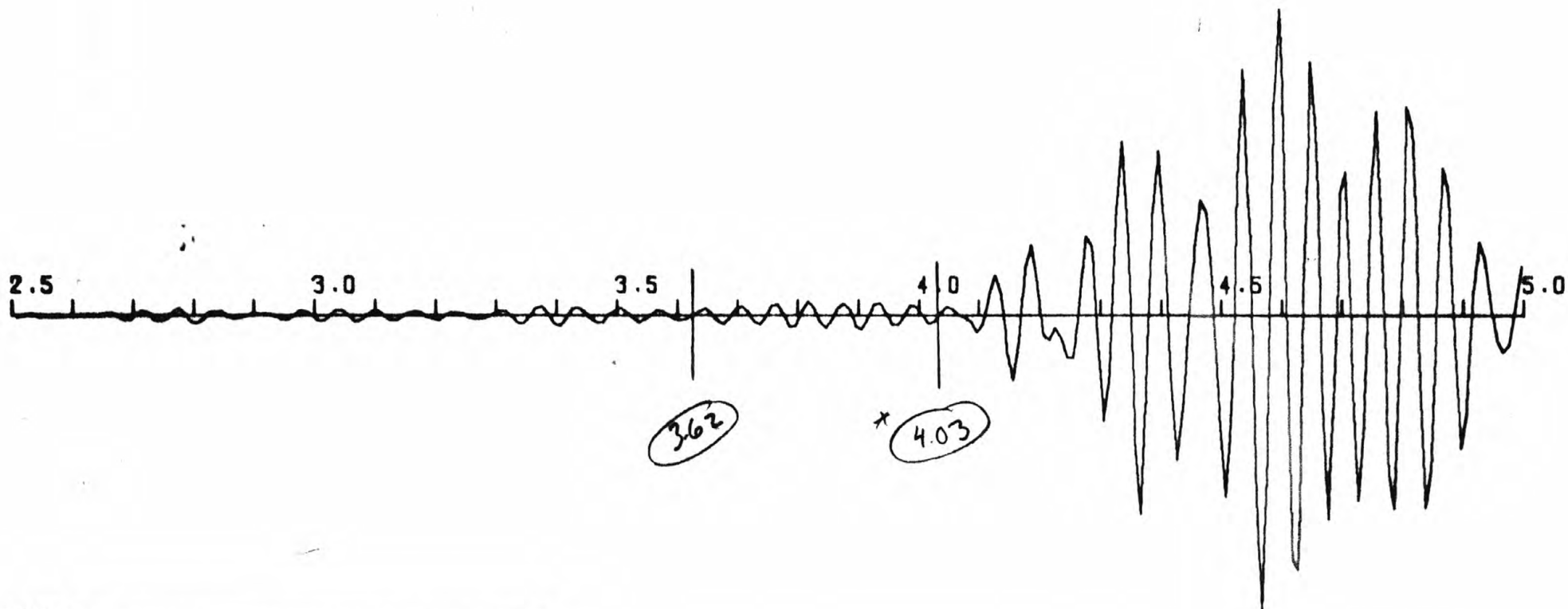
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 1

RECORDER LOCATION 235

DISTANCE FROM SHOT (KM) = -18.678

TSCALE (CM/SEC) = 10.0



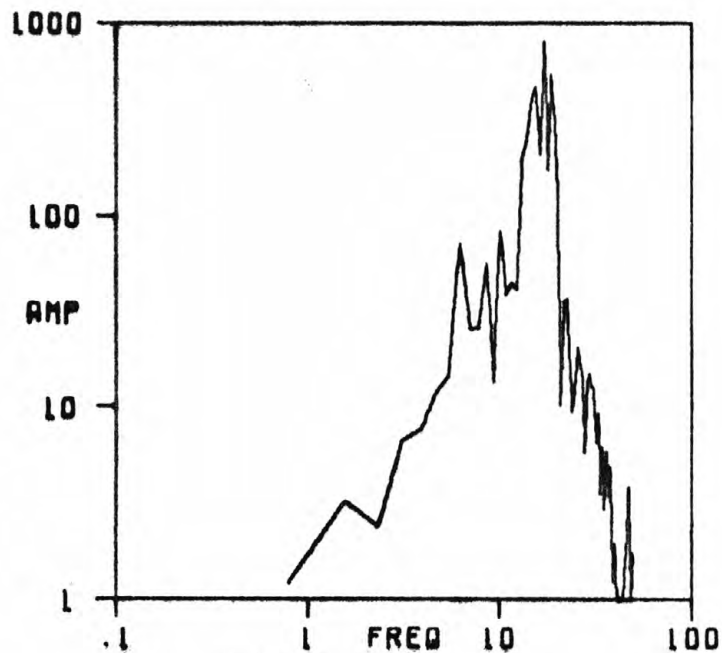
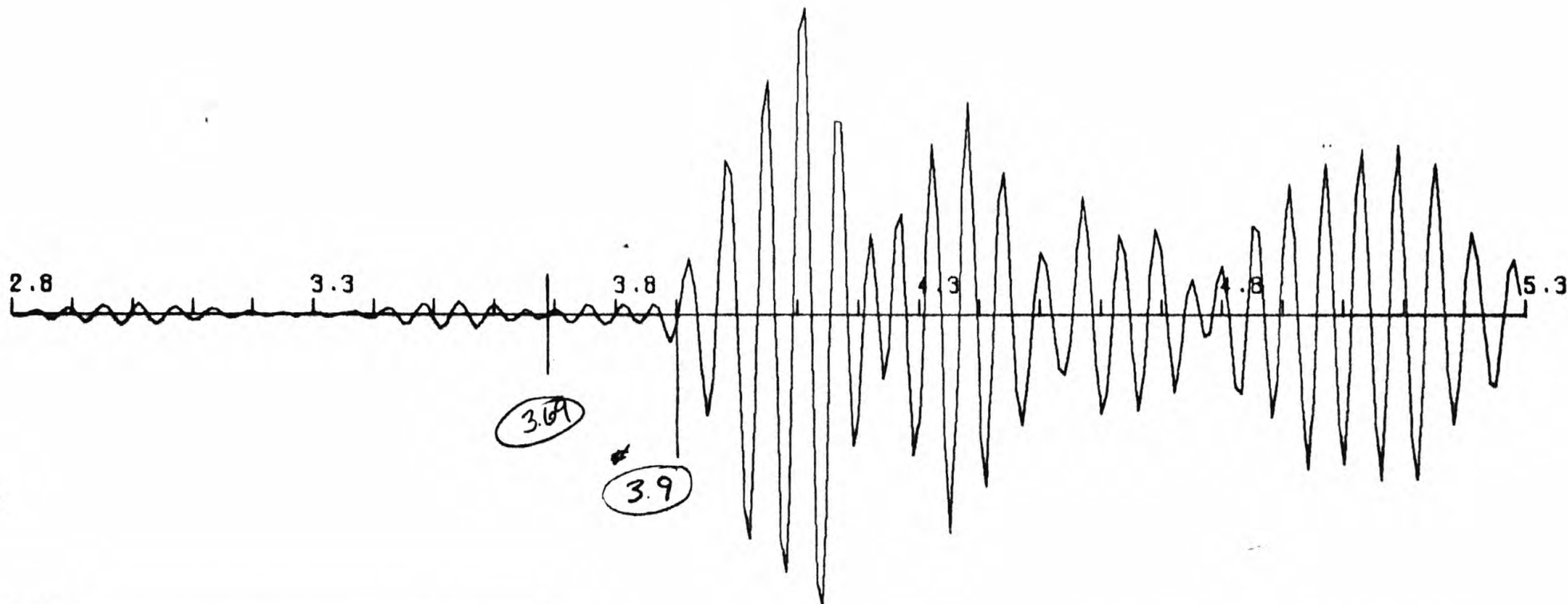
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 1

RECORDER LOCATION 236

DISTANCE FROM SHOT (KM) = -20.689

TSCALE (CM/SEC) = 10.0



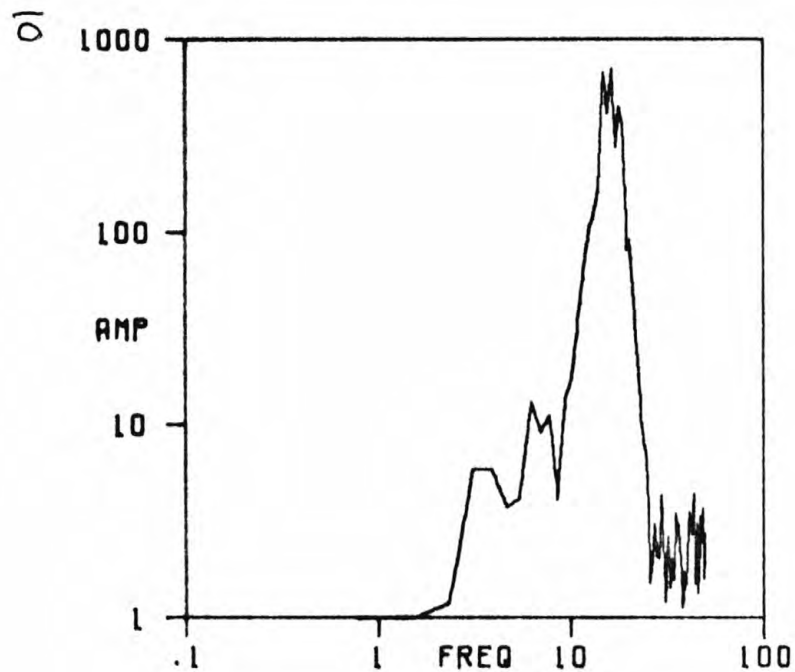
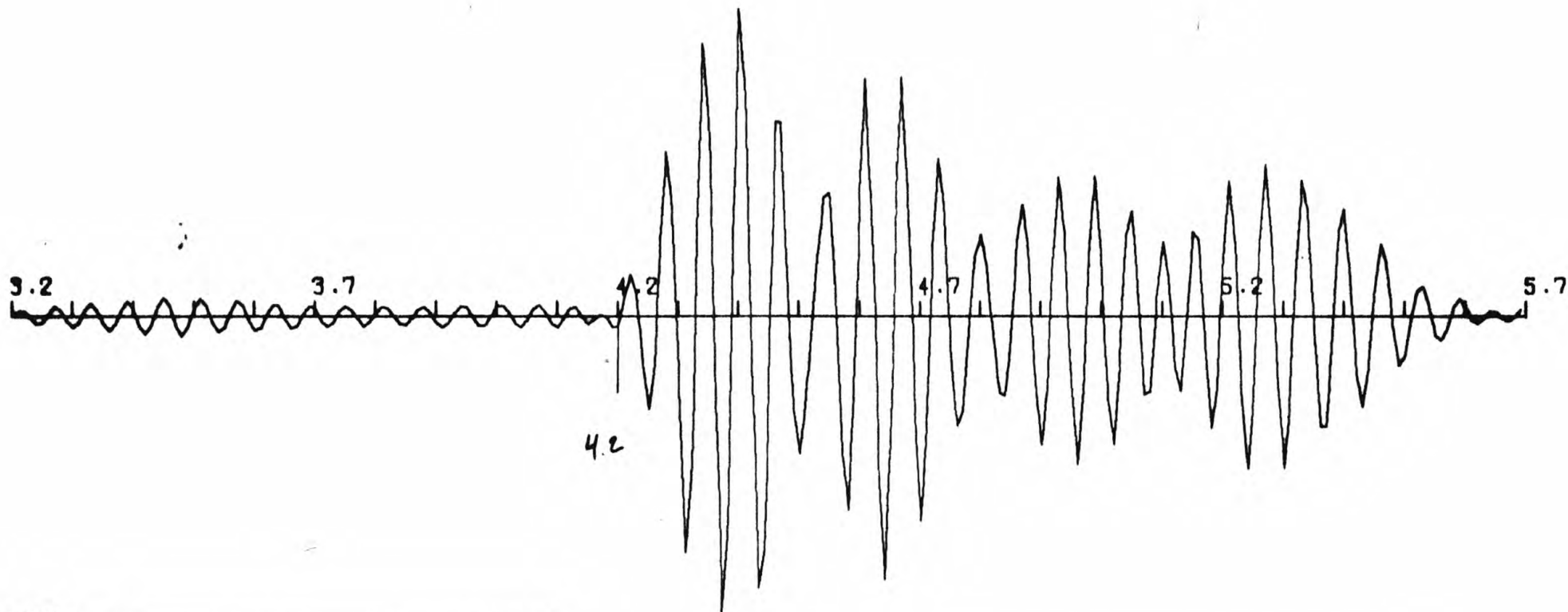
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 1

RECORDER LOCATION 237

DISTANCE FROM SHOT (KM) = -22.700

TSCALE (CM/SEC) = 10.0



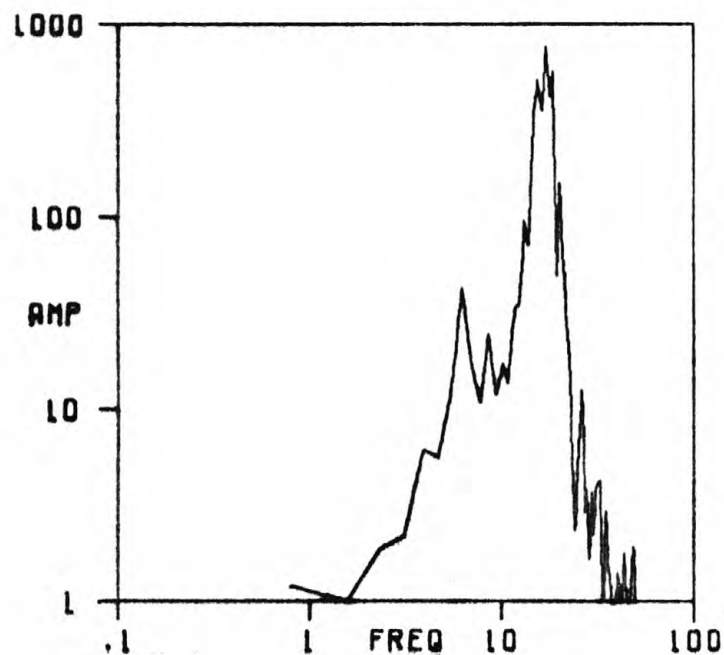
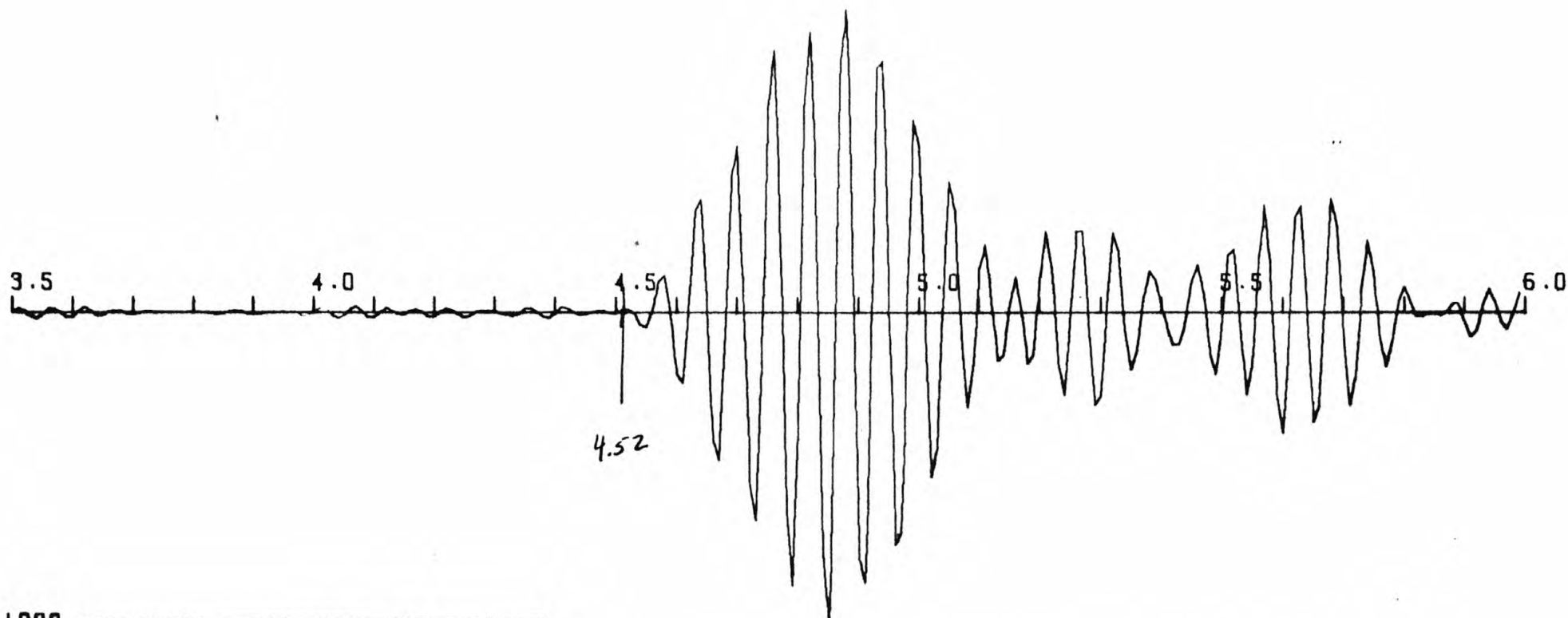
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 1

RECORDER LOCATION 238

DISTANCE FROM SHOT (KM) = -24.619

TSCALE (CM/SEC) = 10.0



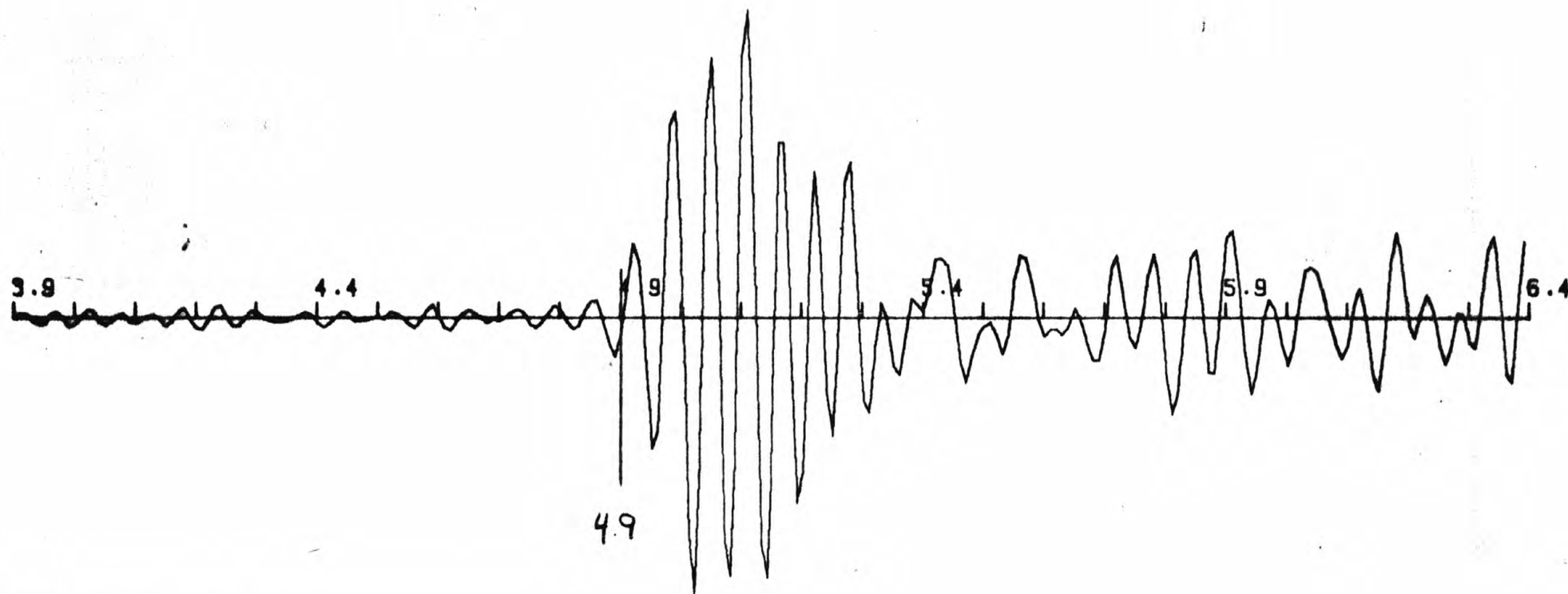
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 1

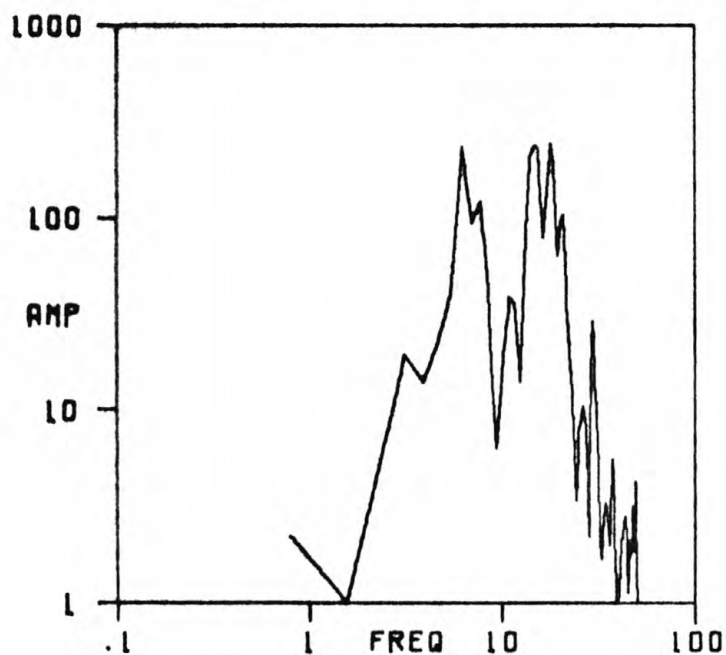
RECORDER LOCATION 239

DISTANCE FROM SHOT (KM) = -26.715

TSCALE (CM/SEC) = 10.0



12



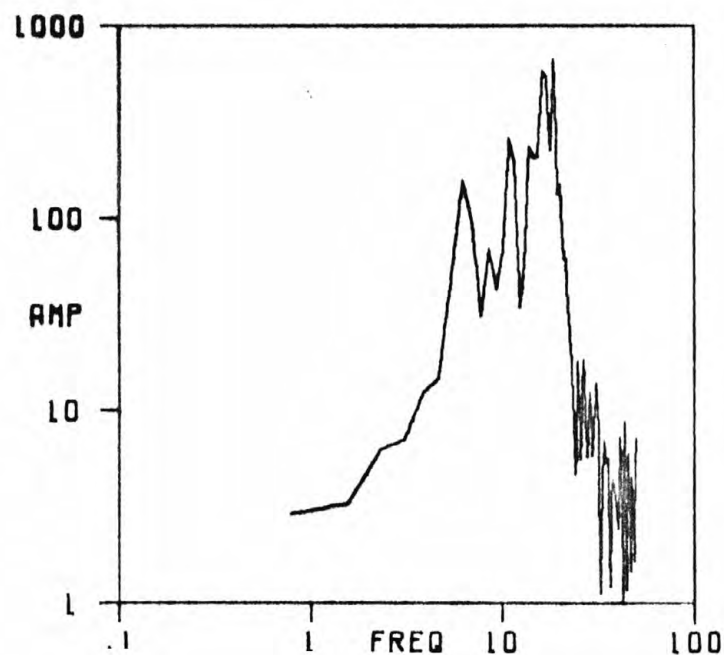
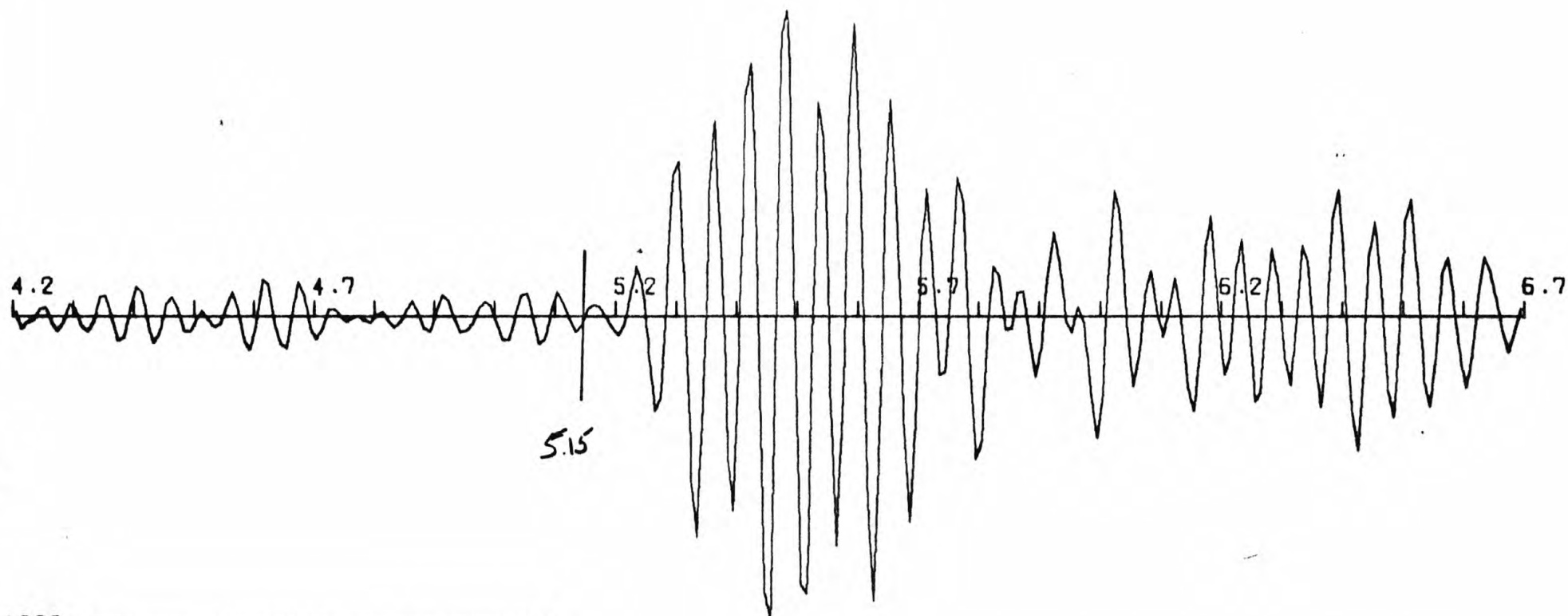
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 1

RECORDER LOCATION 240

DISTANCE FROM SHOT (KM) = -28.821

TSCALE (CM/SEC) = 10.0



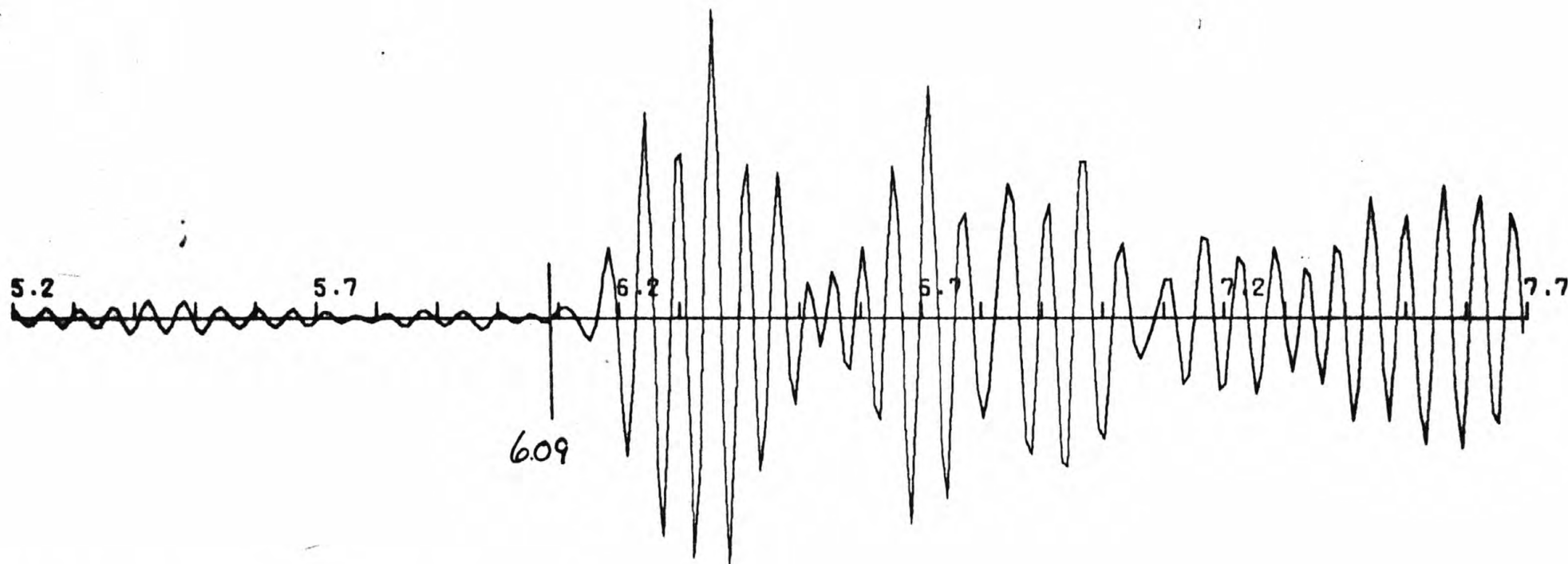
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 1

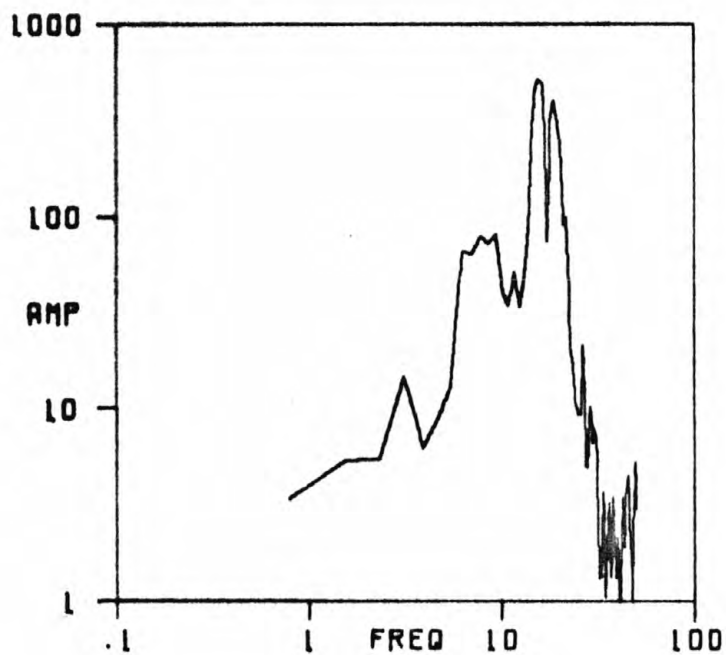
RECORDER LOCATION 241

DISTANCE FROM SHOT (KM) = -30.817

TSCALE (CM/SEC) = 10.0



14



SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 1

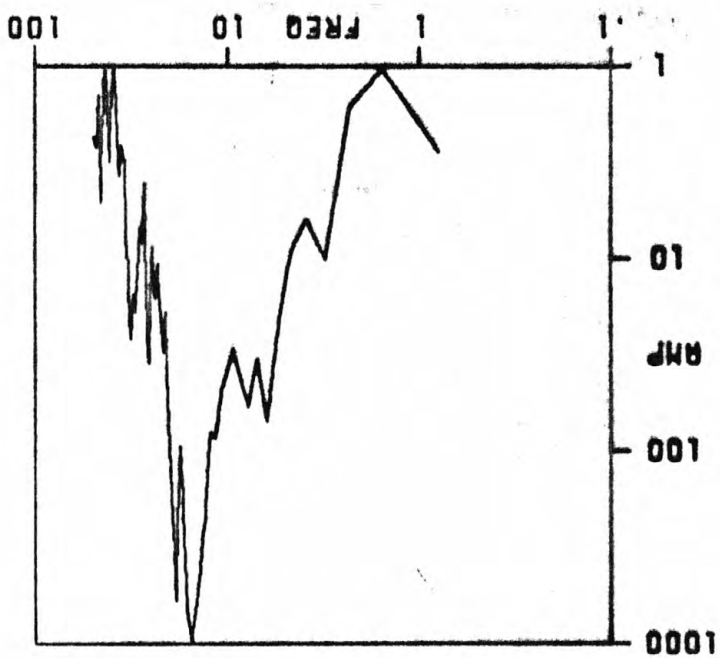
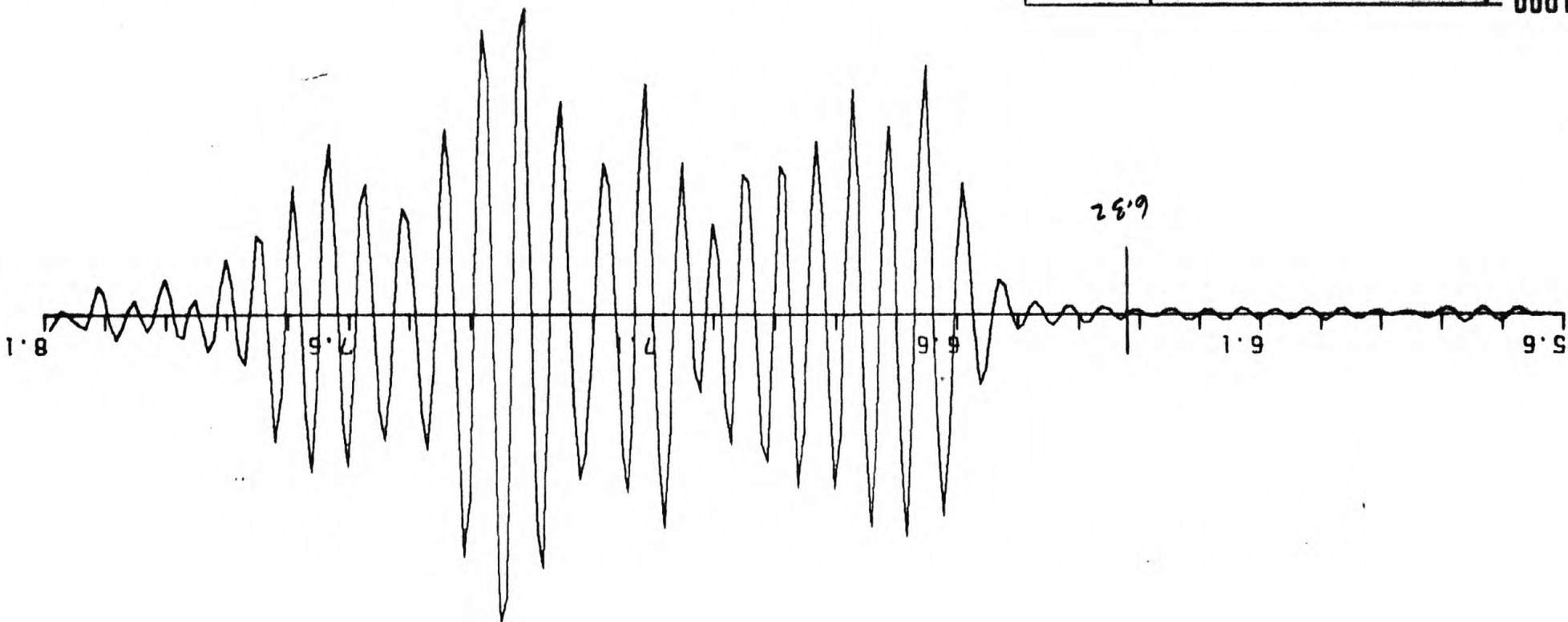
RECORDER LOCATION 244

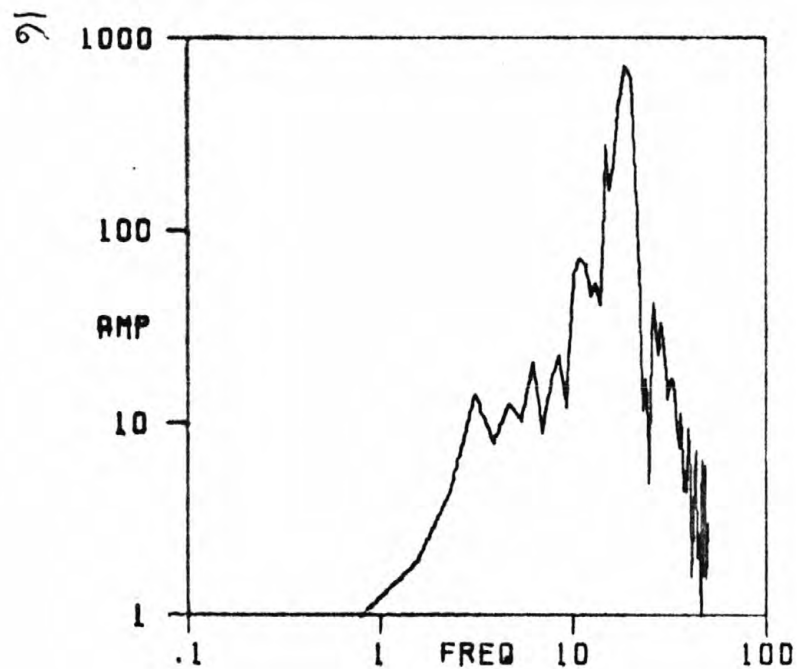
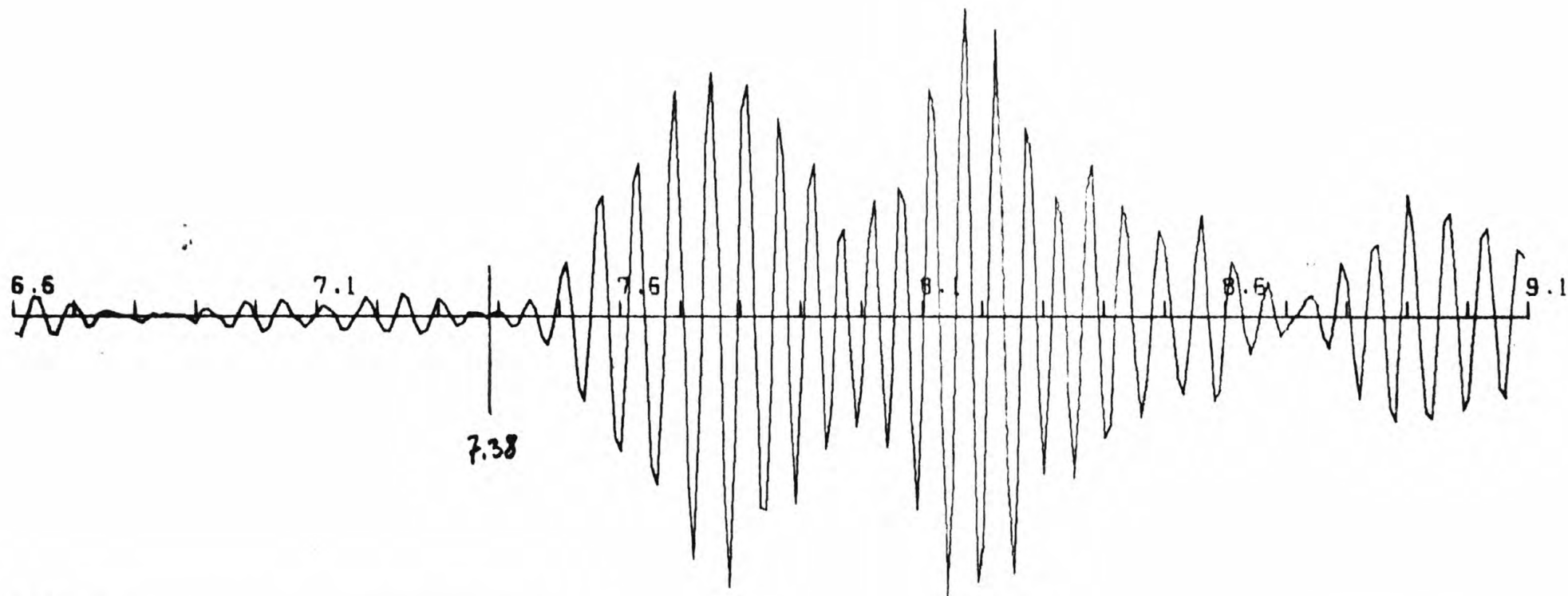
DISTANCE FROM SHOT (KM) = -36.869

TSCALE (CM/SEC) = 10.0

SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 1
 RECORDER LOCATION 245
 DISTANCE FROM SHOT (KM) = -39.204
 SCALE (CM/SEC) = 10.0





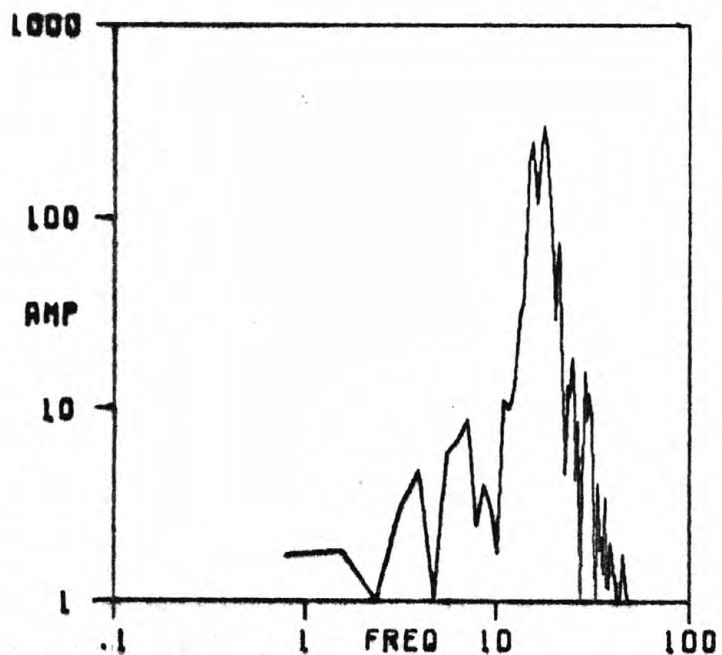
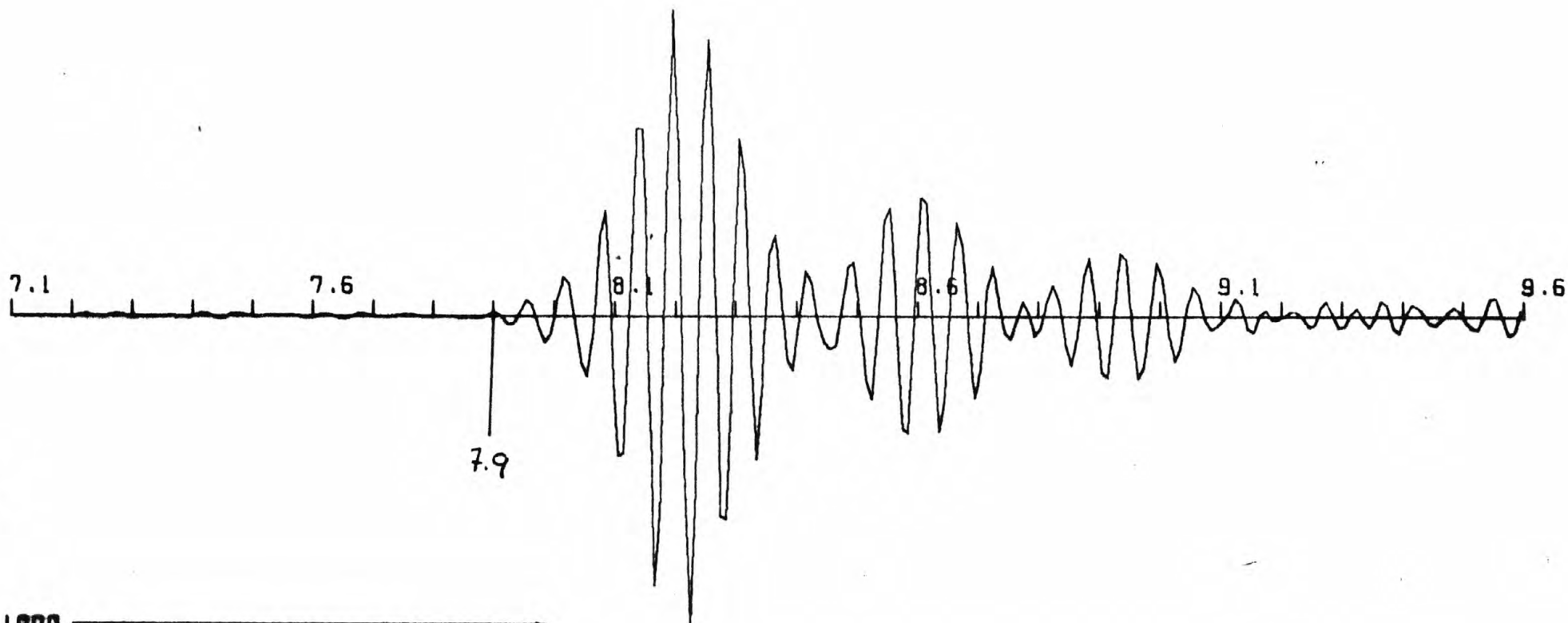
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 1

RECORDER LOCATION 246

DISTANCE FROM SHOT (KM) = -45.321

TSCALE (CM/SEC) = 10.0



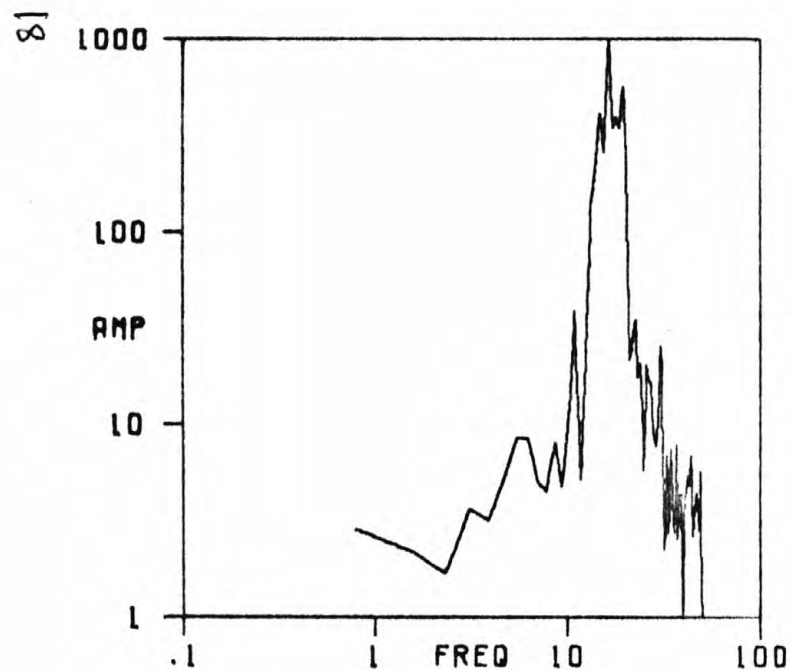
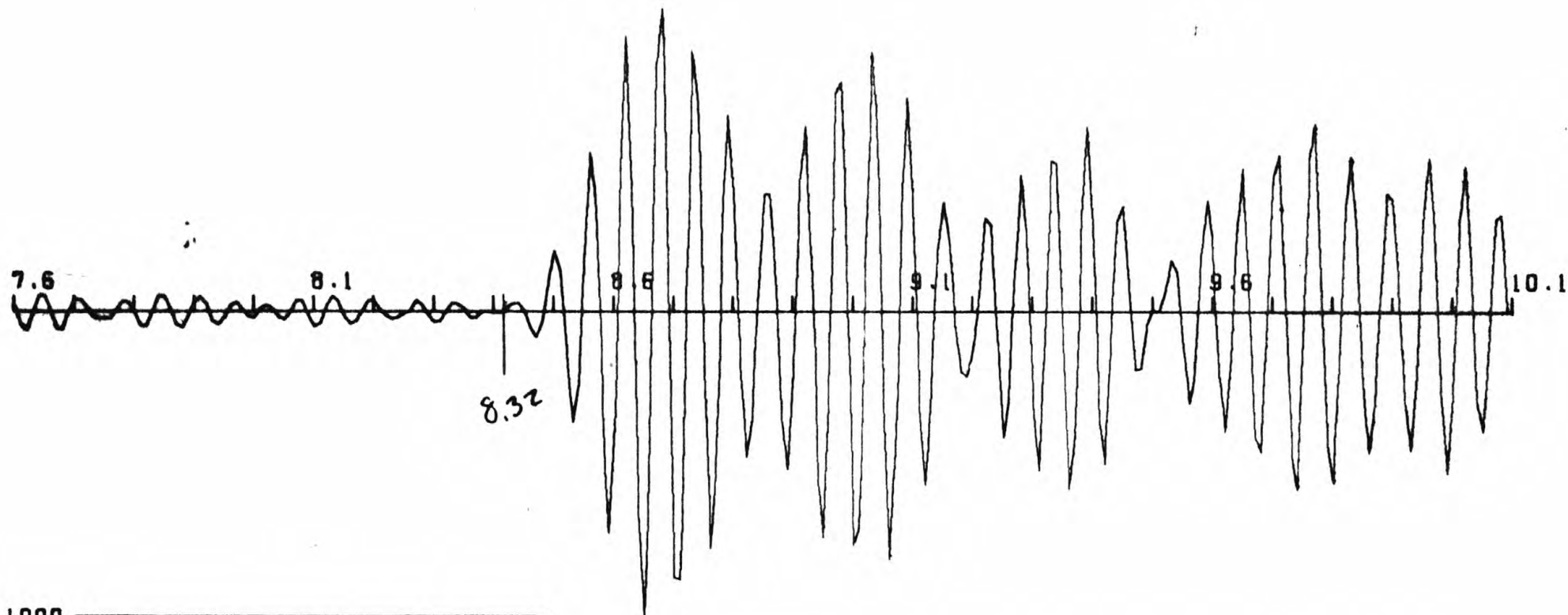
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 1

RECORDER LOCATION 247

DISTANCE FROM SHOT (KM) = -48.400

TSCALE (CM/SEC) = 10.0



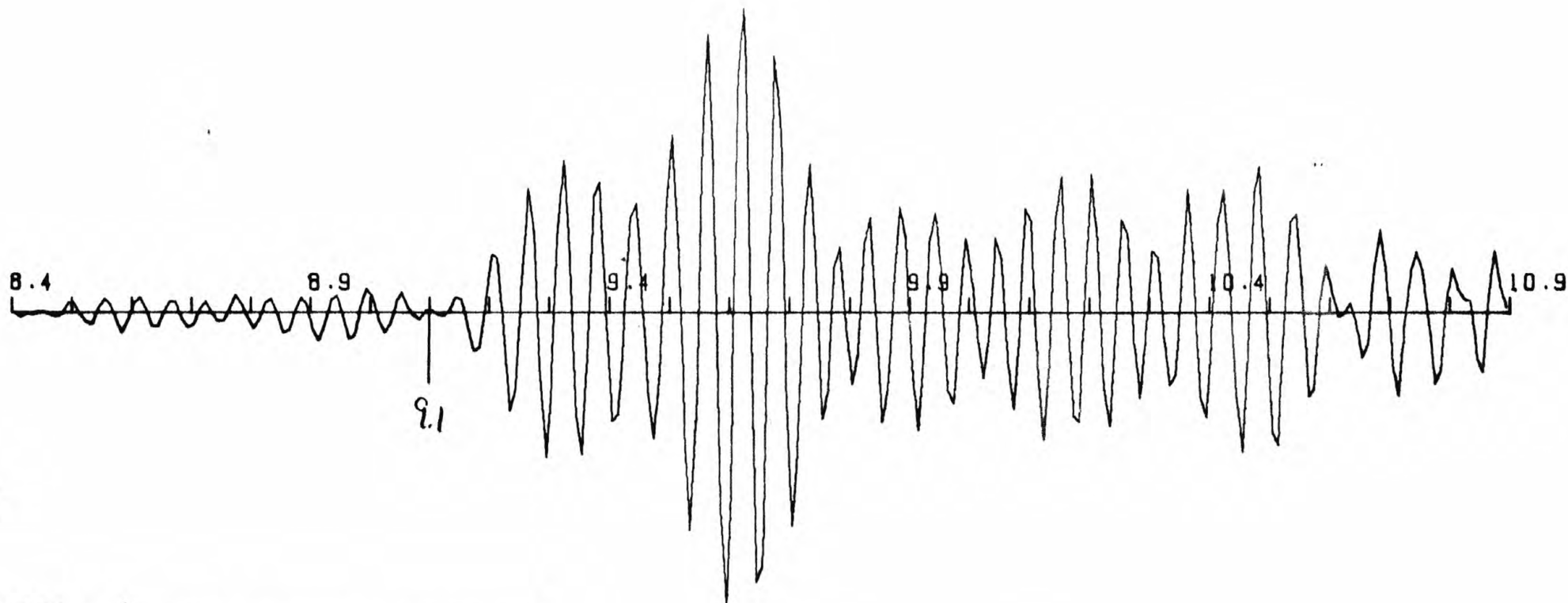
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 1

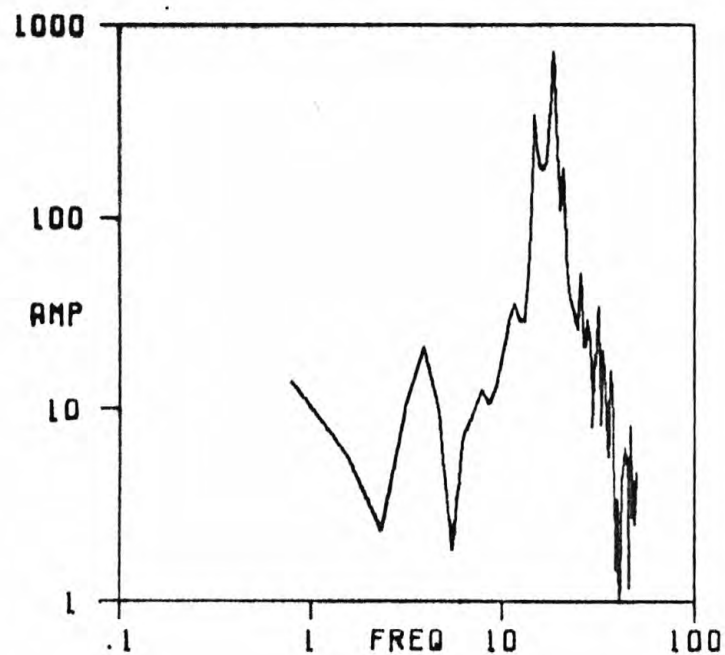
RECORDER LOCATION 248

DISTANCE FROM SHOT (KM) = -51.320

TSCALE (CM/SEC) = 10.0



19



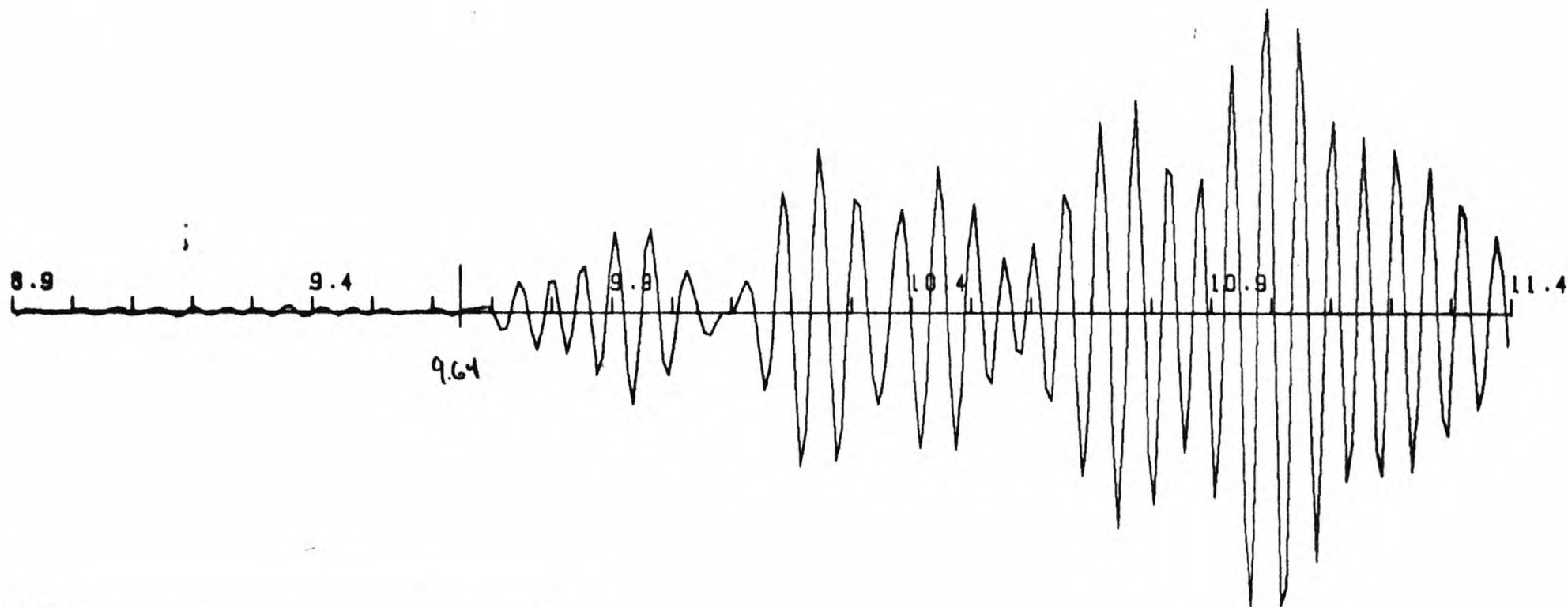
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 1

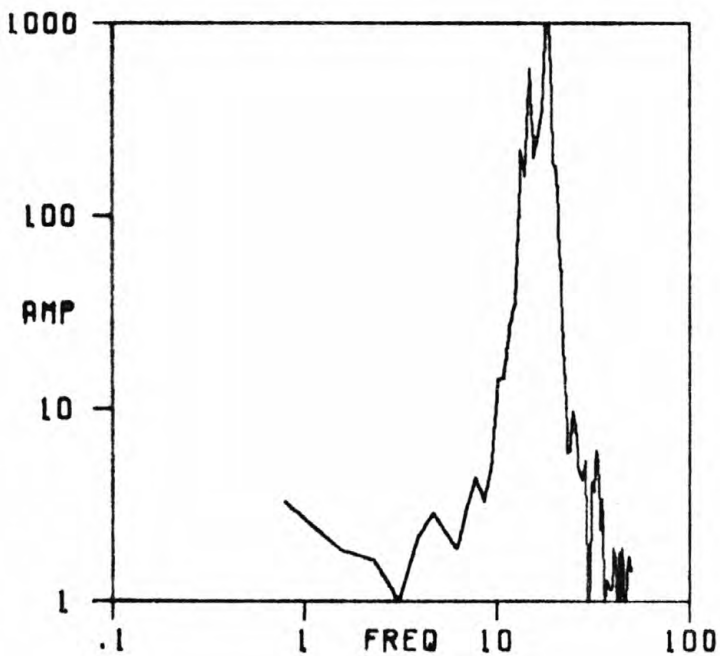
RECORDER LOCATION 251

DISTANCE FROM SHOT (KM) = -55.959

TSCALE (CM/SEC) = 10.0



20



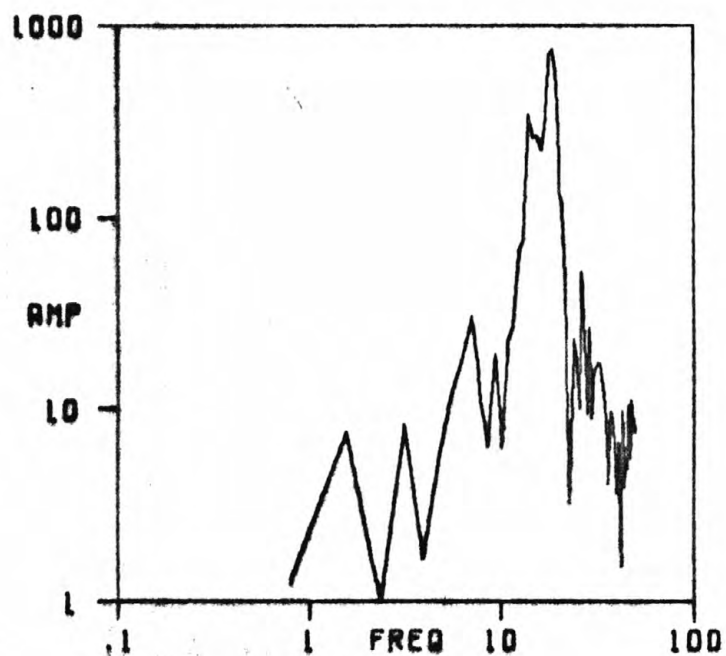
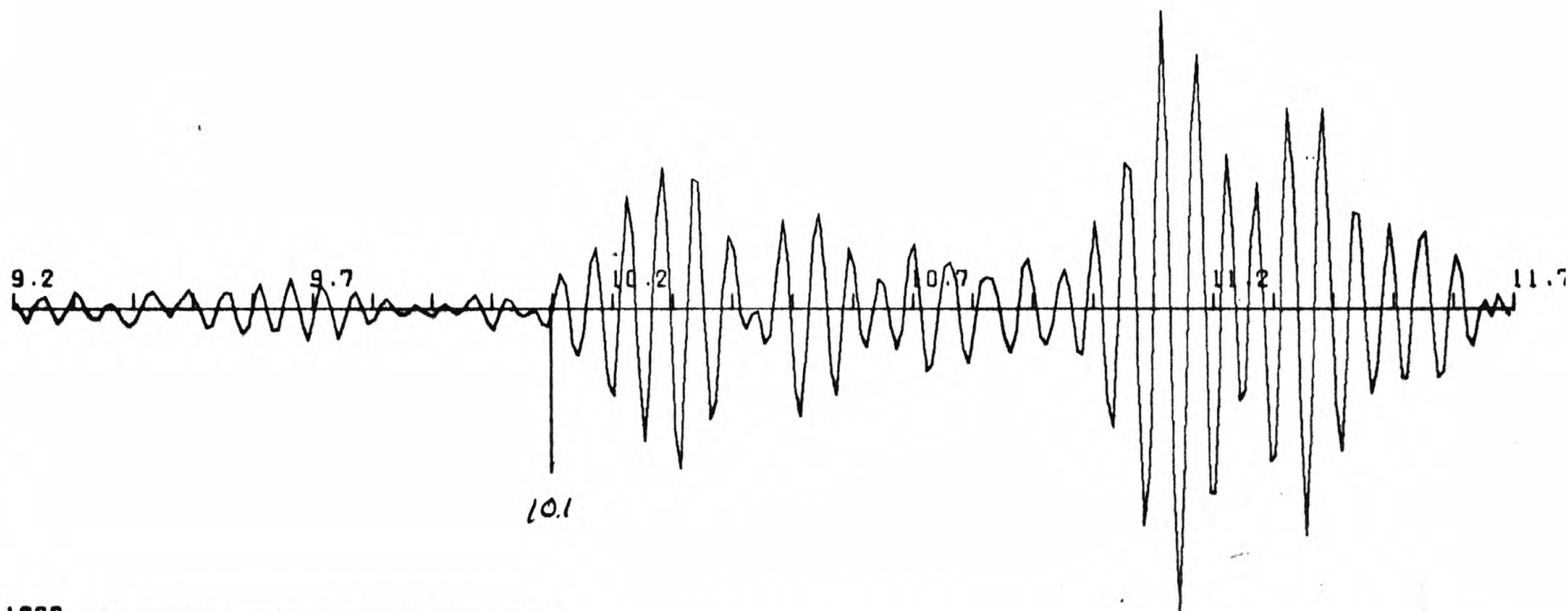
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 1

RECORDER LOCATION 252

DISTANCE FROM SHOT (KM) = -58.839

TSCALE (CM/SEC) = 10.0



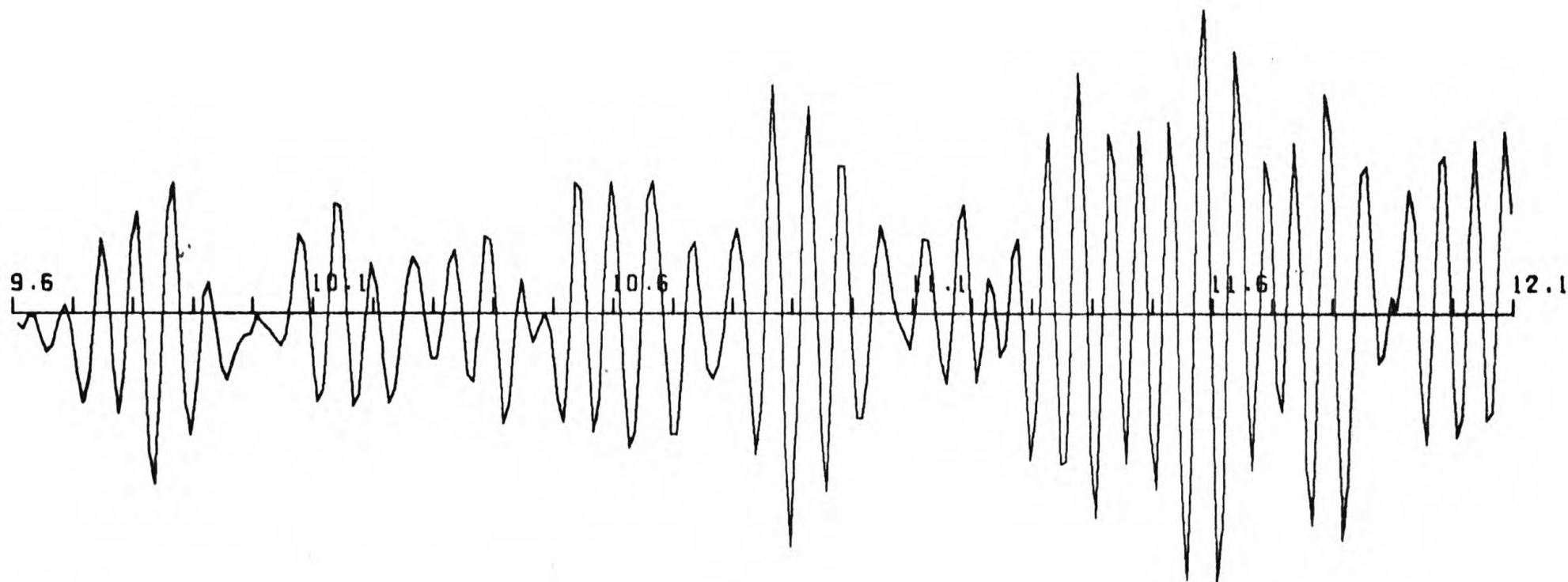
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 1

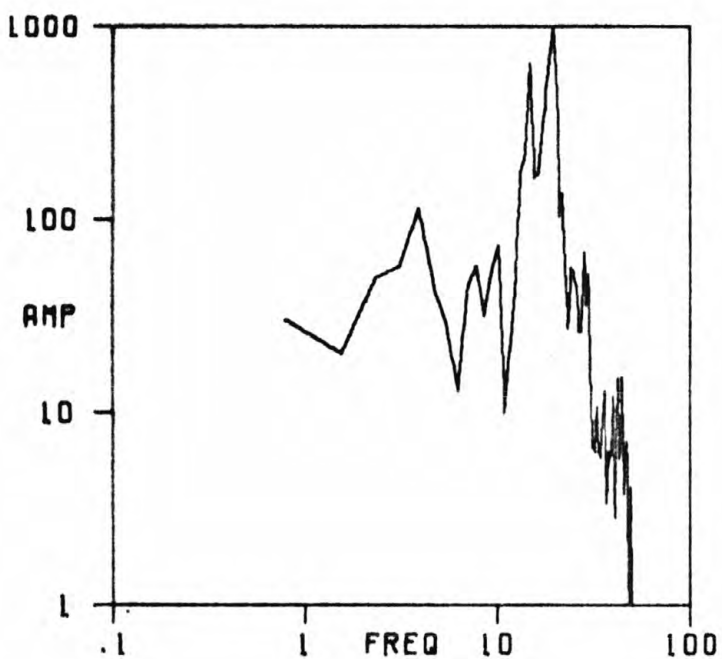
RECORDER LOCATION 253

DISTANCE FROM SHOT (KM) = -61.051

TSCALE (CM/SEC) = 10.0



22



SAUDI REFRACTION PROFILE 15.20 BP

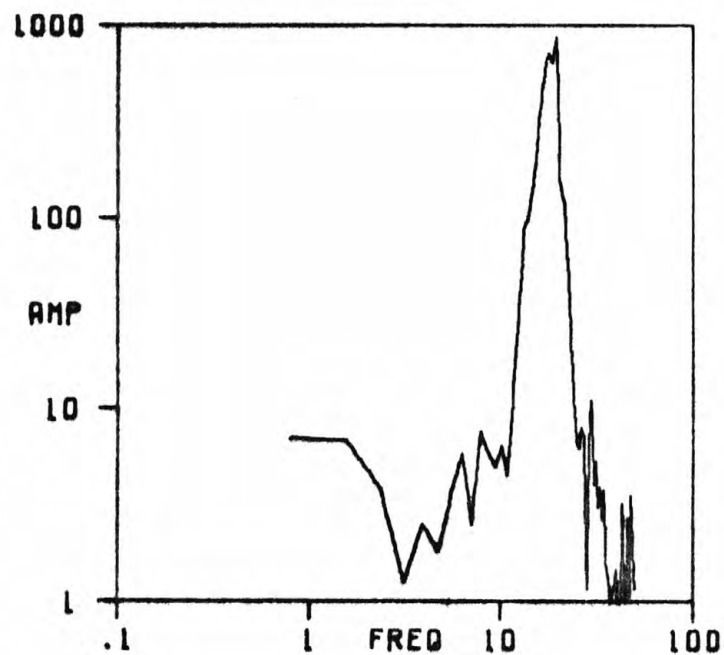
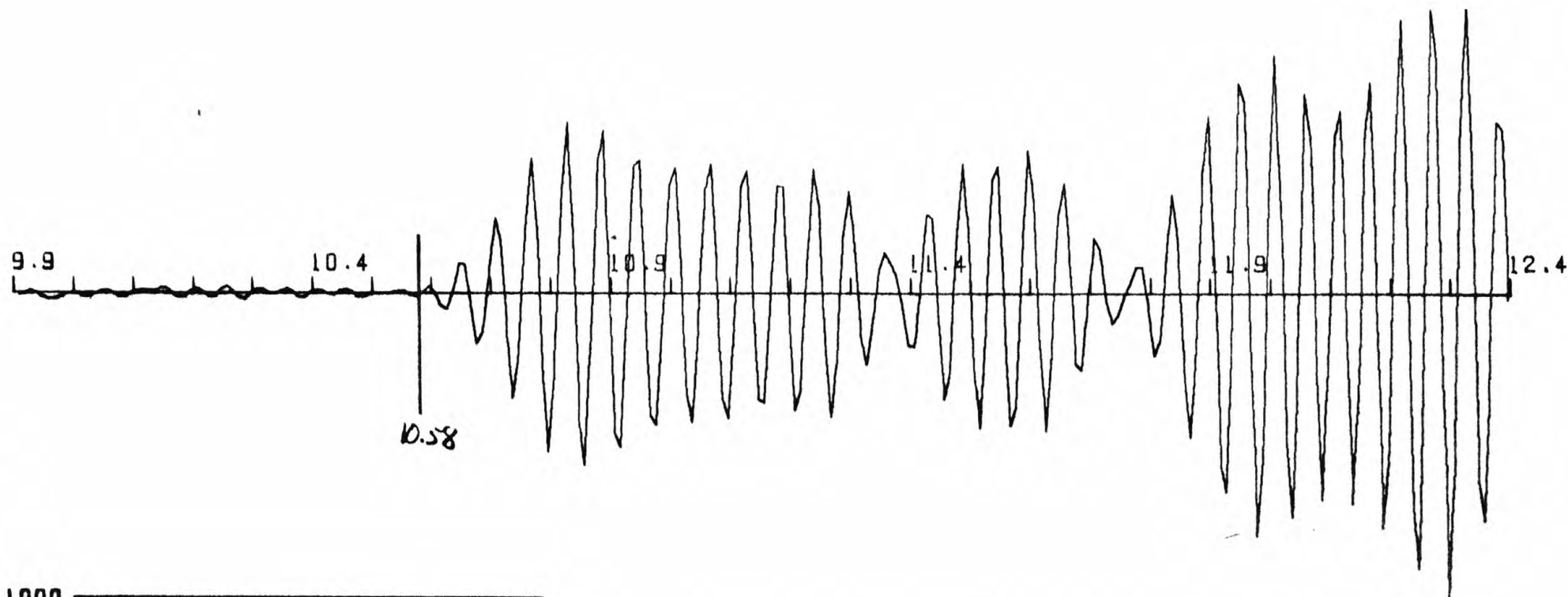
SHOT POINT 1

RECORDER LOCATION 254

DISTANCE FROM SHOT (KM) = -63.050

TSCALE (CM/SEC) = 10.0

23



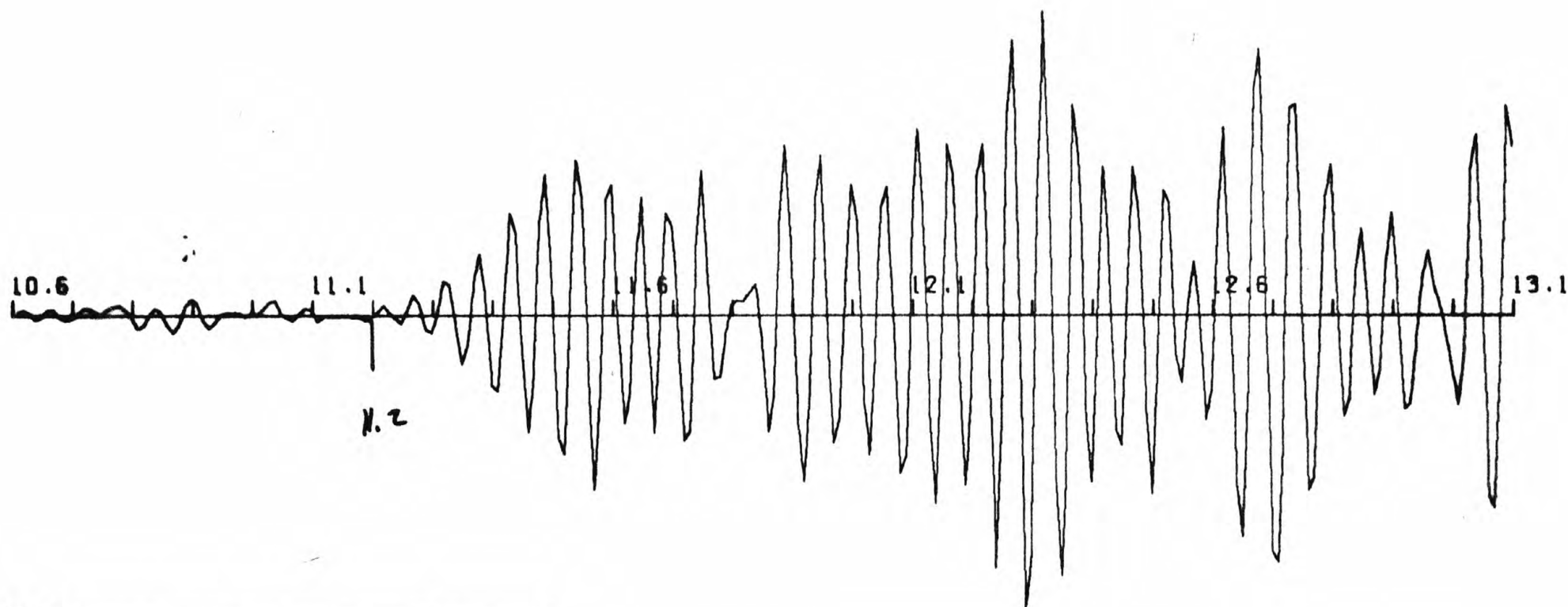
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 1

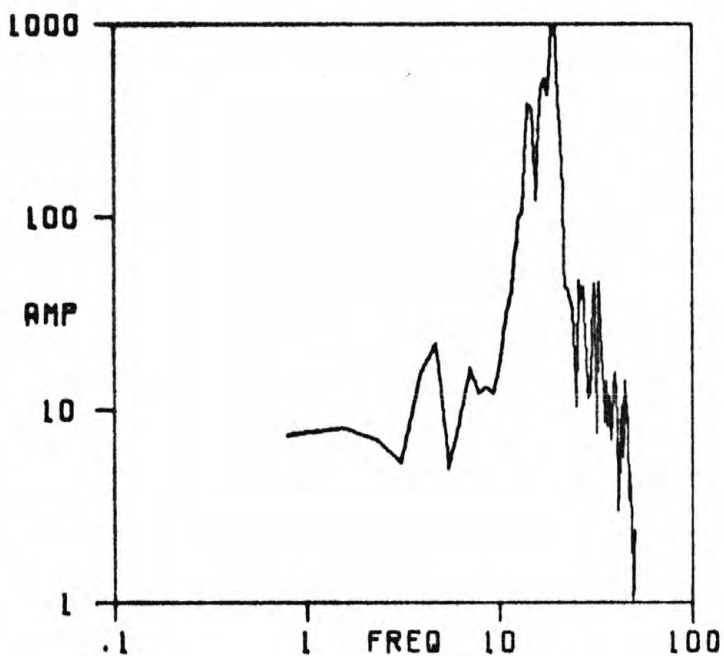
RECORDER LOCATION 255

DISTANCE FROM SHOT (KM) = -64.914

TSCALE (CM/SEC) = 10.0



24



SAUDI REFRACTION PROFILE 15.20 BP

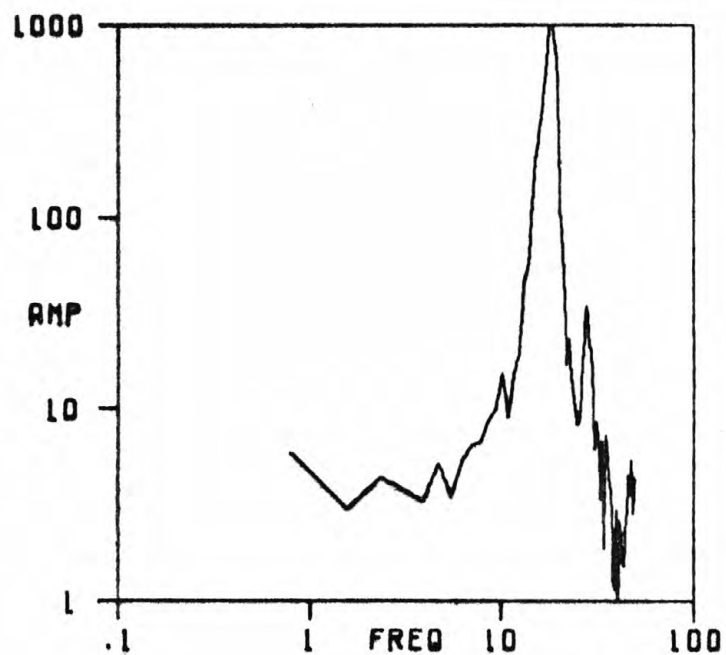
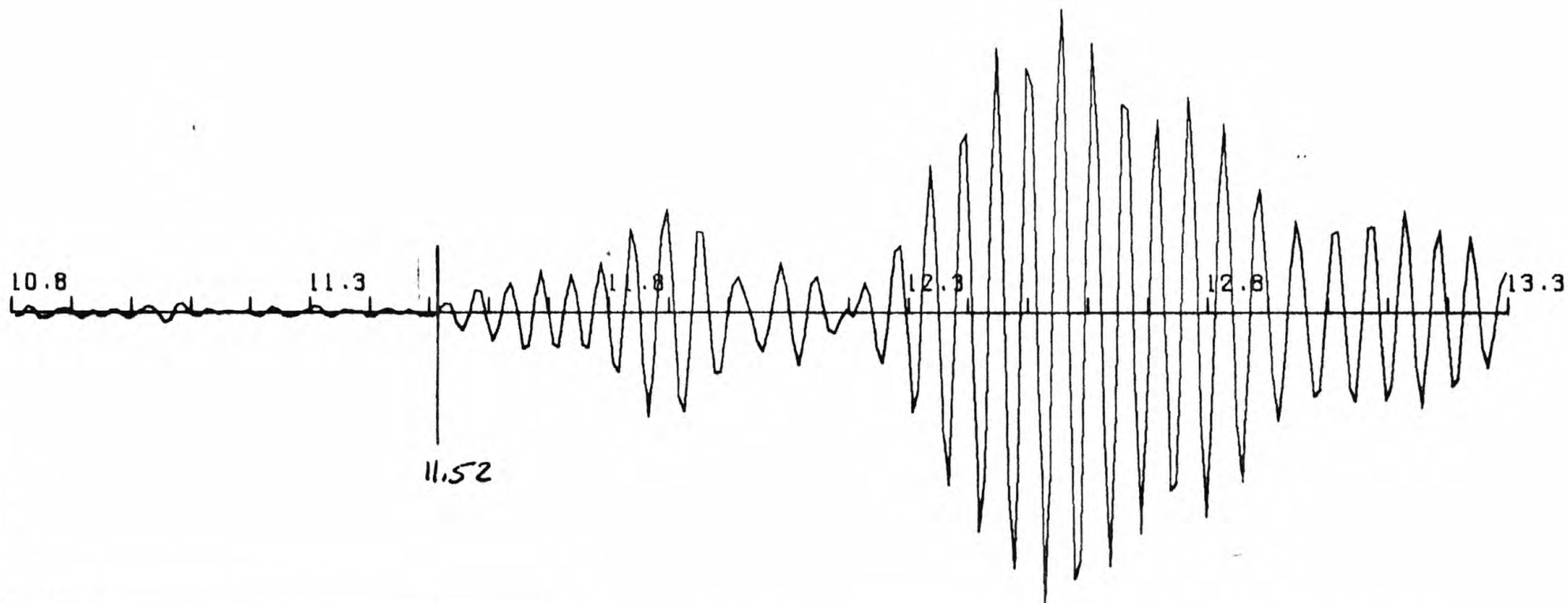
SHOT POINT 1

RECORDER LOCATION 257

DISTANCE FROM SHOT (KM) = -69.239

TSCALE (CM/SEC) = 10.0

25



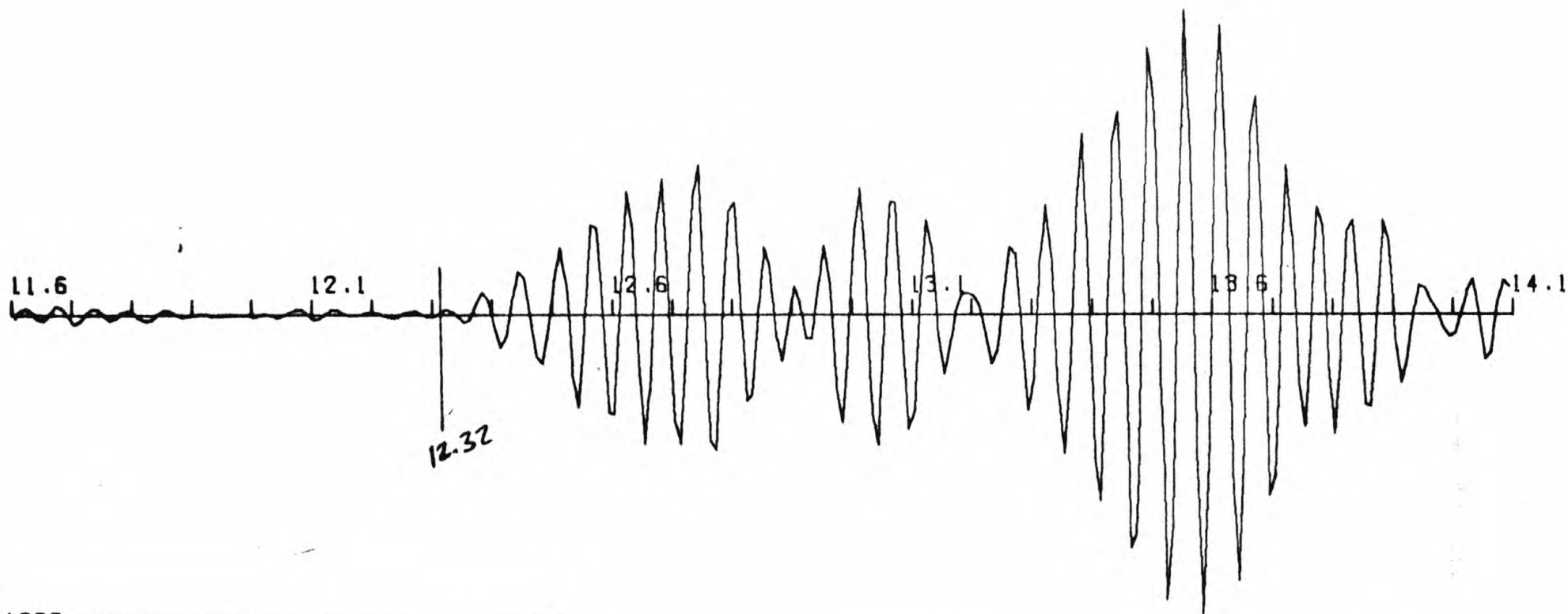
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 1

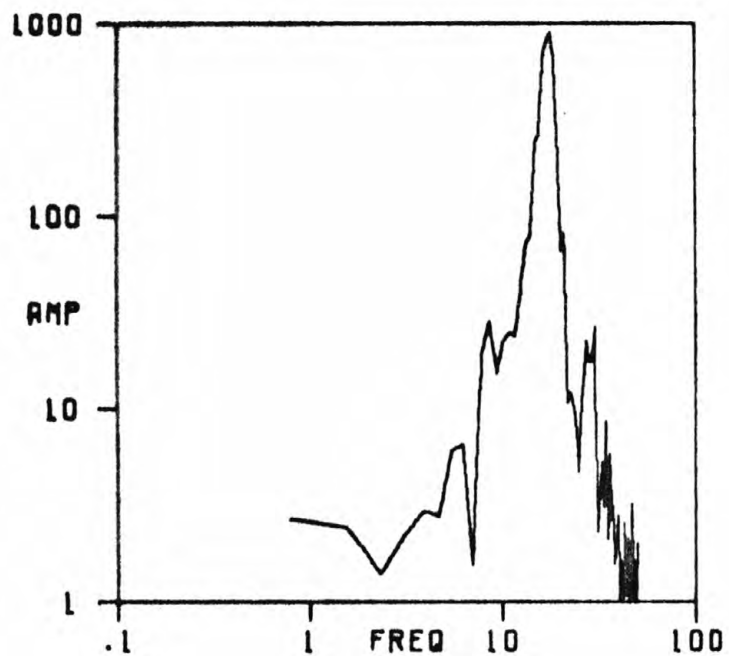
RECORDER LOCATION 258

DISTANCE FROM SHOT (KM) = -70.432

TSCALE (CM/SEC) = 10.0



26



SAUDI REFRACTION PROFILE 15.20 BP

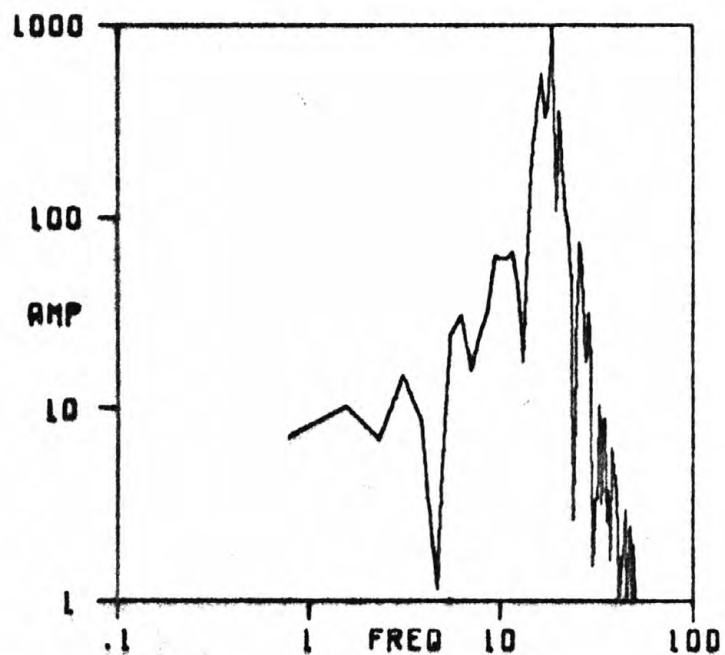
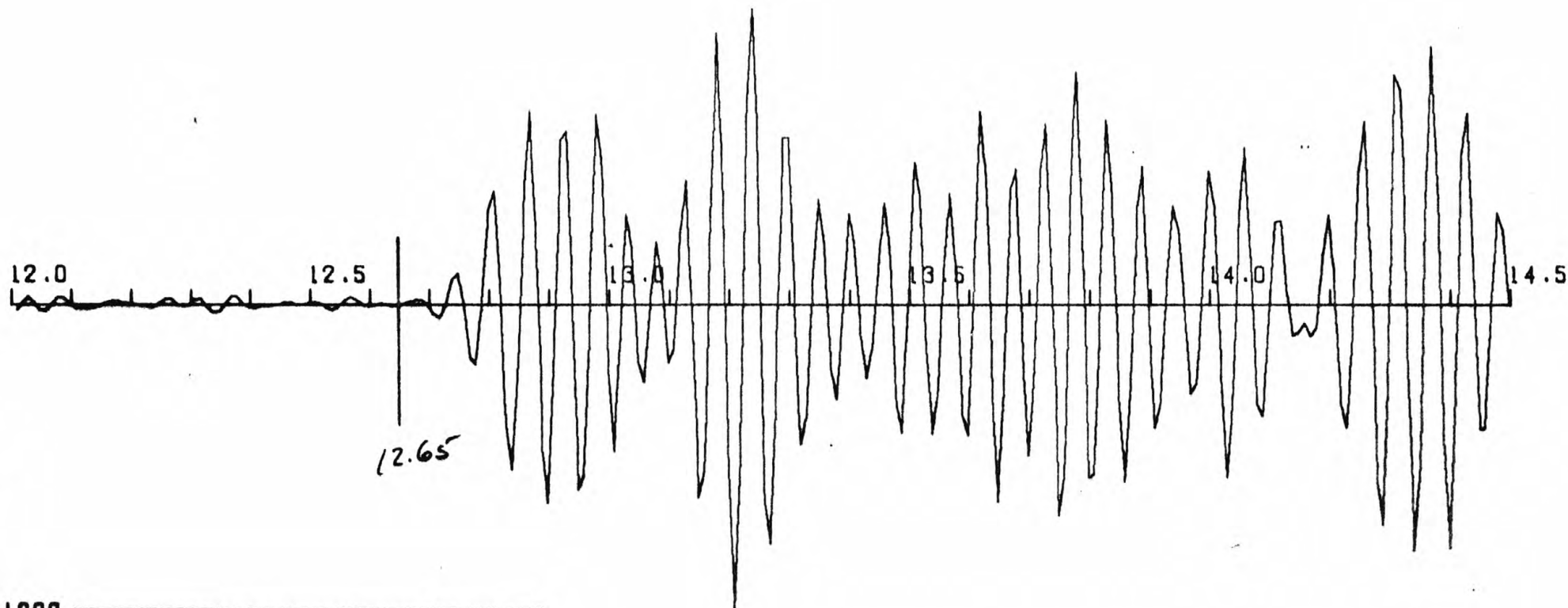
SHOT POINT 1

RECORDER LOCATION 260

DISTANCE FROM SHOT (KM) = -75.393

TSCALE (CM/SEC) = 10.0

27



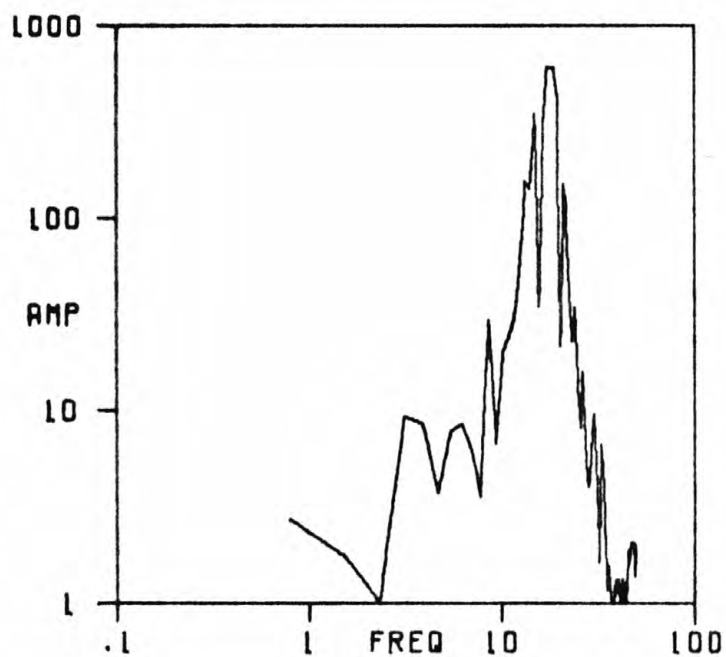
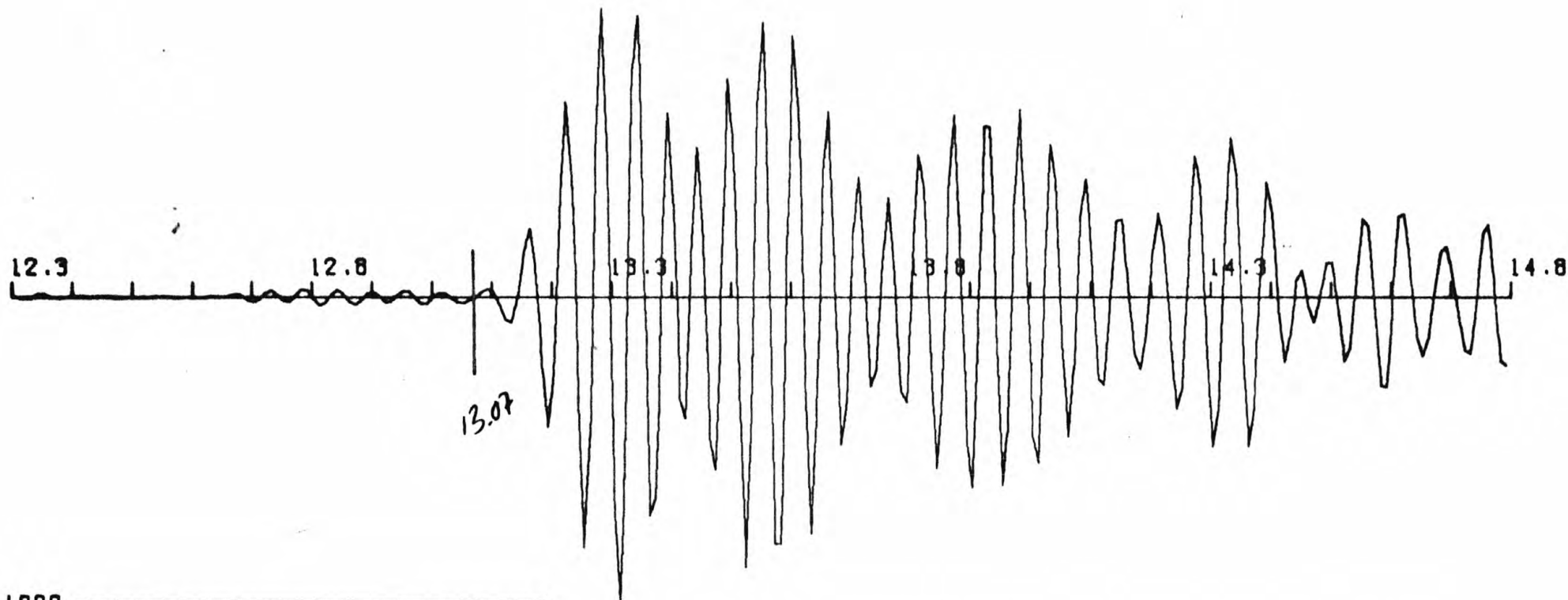
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 1

RECORDER LOCATION 261

DISTANCE FROM SHOT (KM) = -77.518

TSCALE (CM/SEC) = 10.0



SAUDI REFRACTION PROFILE 15.20 BP

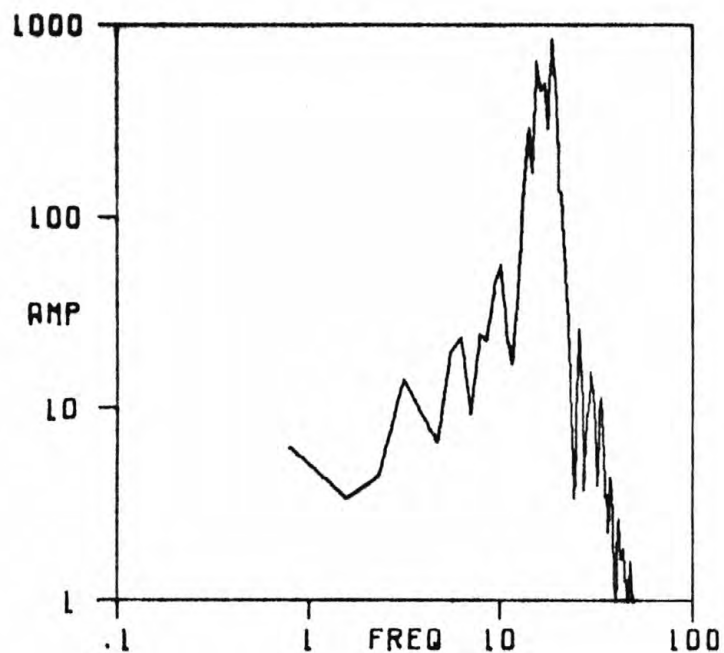
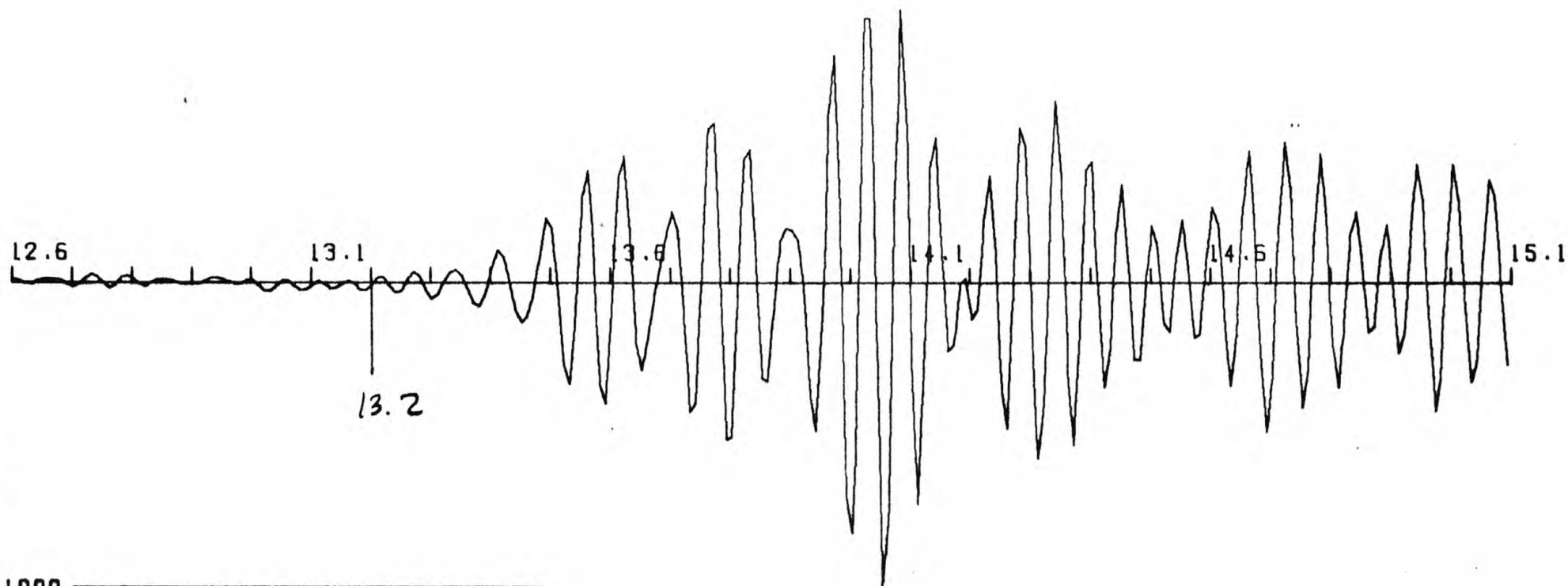
SHOT POINT 1

RECORDER LOCATION 262

DISTANCE FROM SHOT (KM) = -79.709

TSCALE (CM/SEC) = 10.0

29



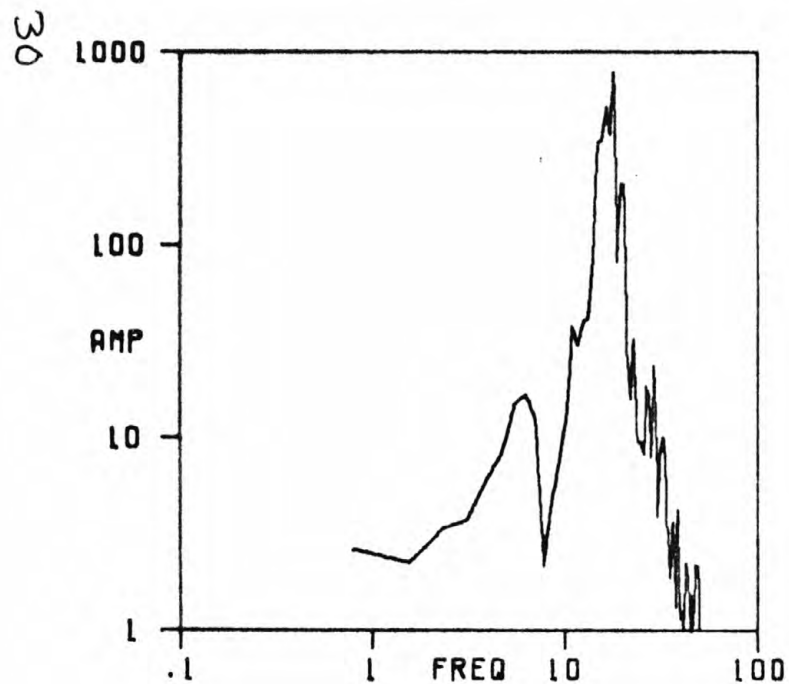
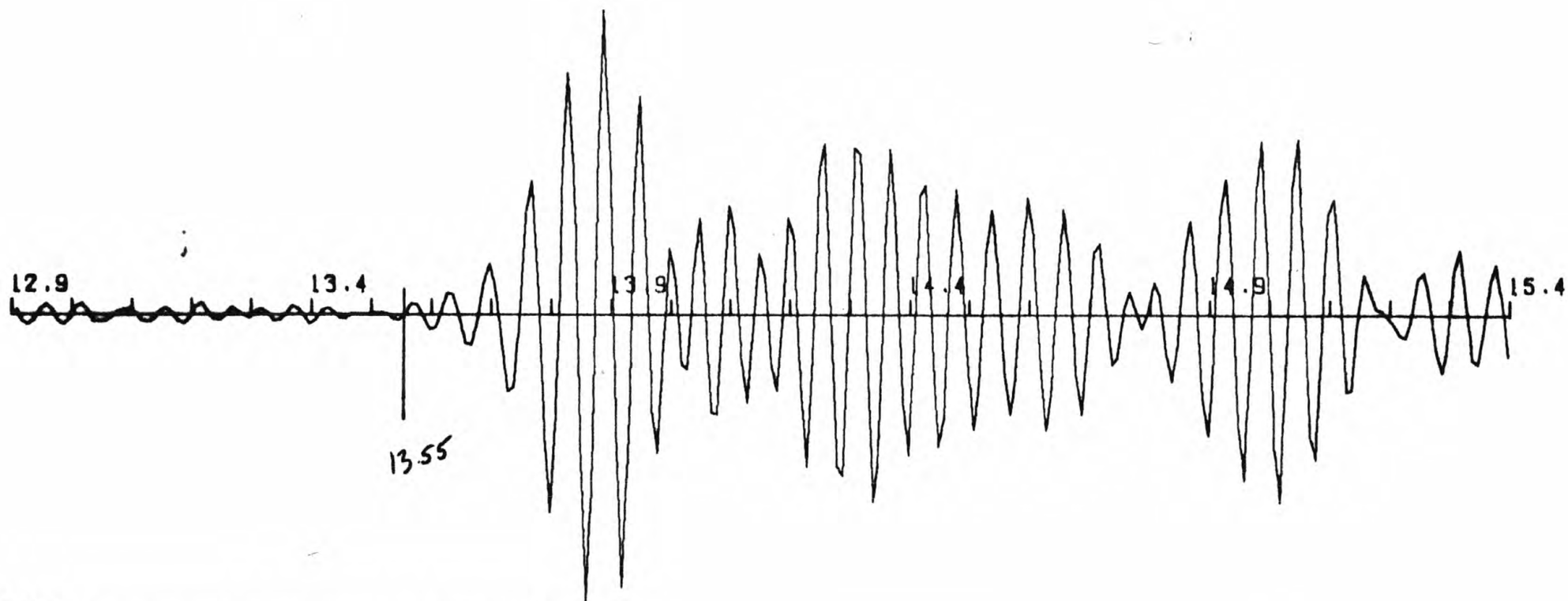
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 1

RECORDER LOCATION 263

DISTANCE FROM SHOT (KM) = -81.329

TSCALE (CM/SEC) = 10.0



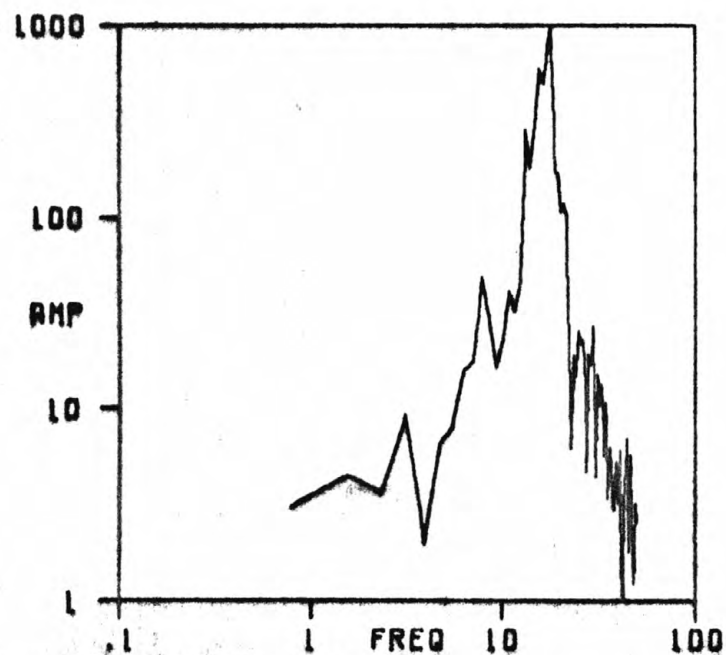
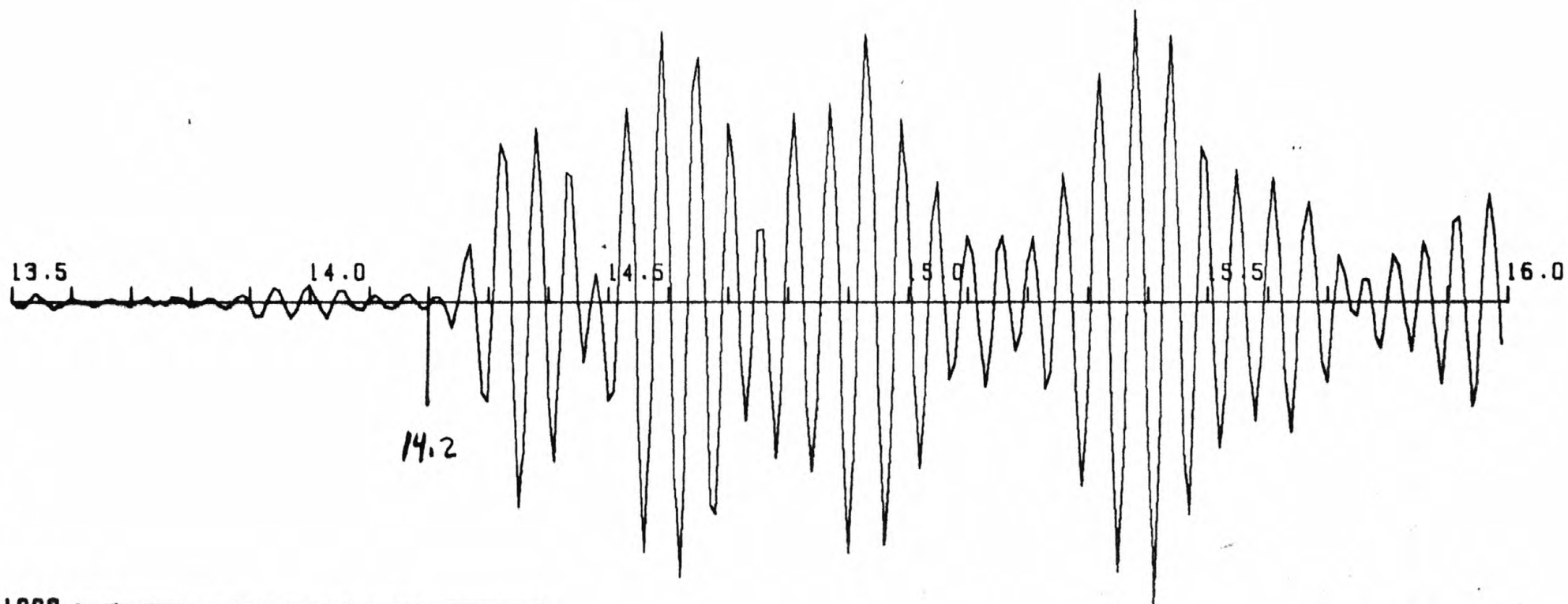
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 1

RECORDER LOCATION 264

DISTANCE FROM SHOT (KM) = -82.853

TSCALE (CM/SEC) = 10.0



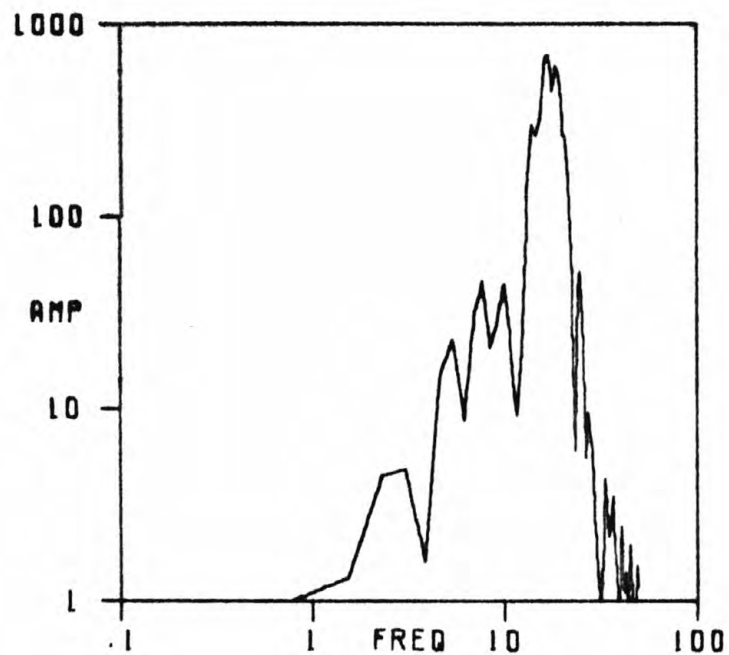
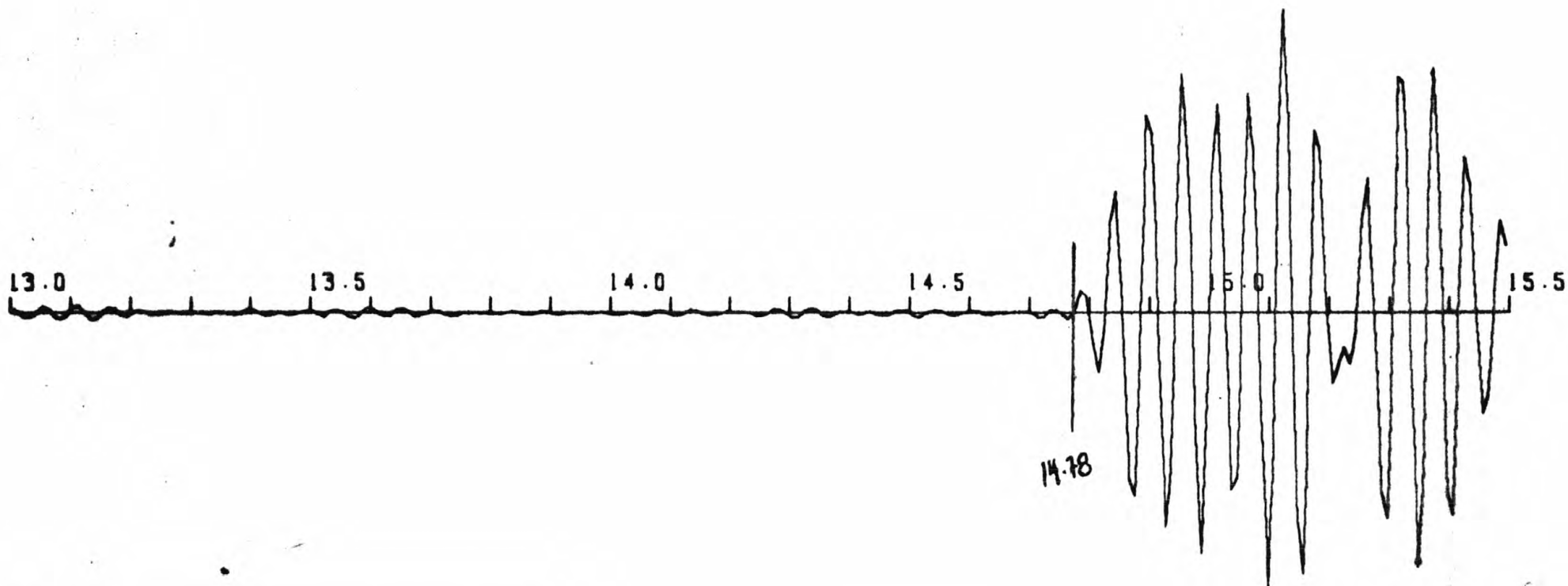
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 1

RECORDER LOCATION 266

DISTANCE FROM SHOT (KM) = -86.525

TSCALE (CM/SEC) = 10.0



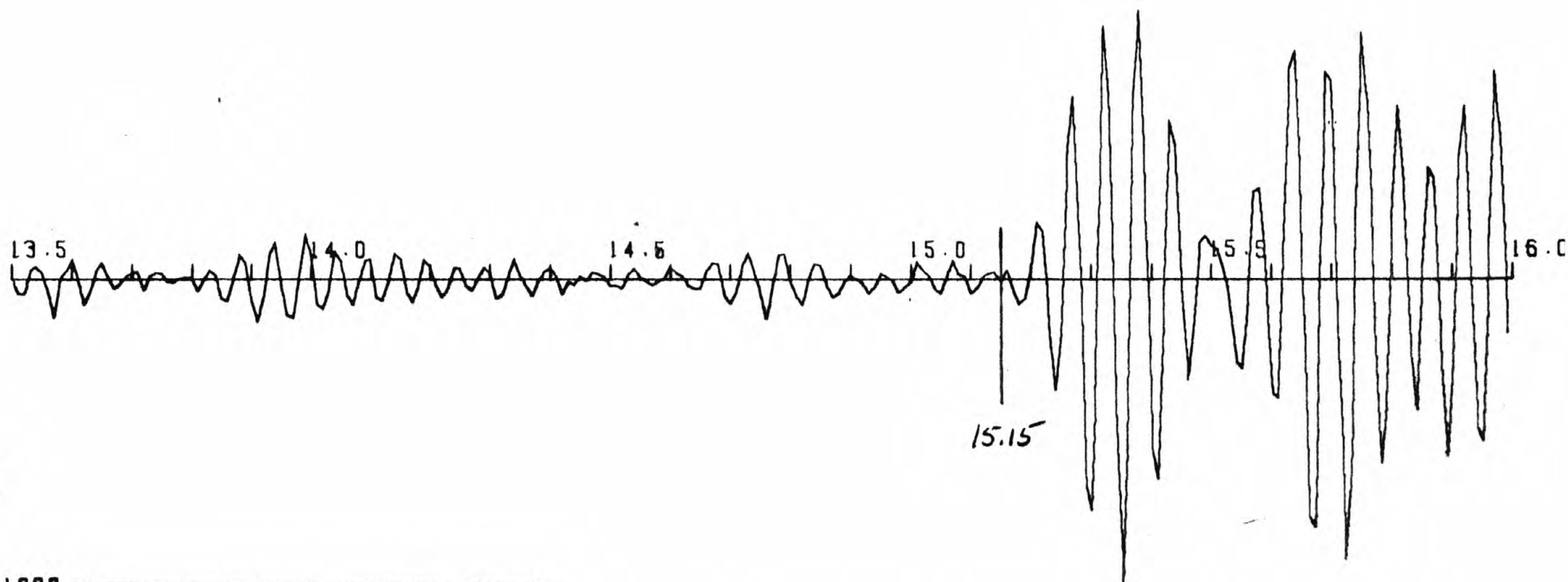
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 1

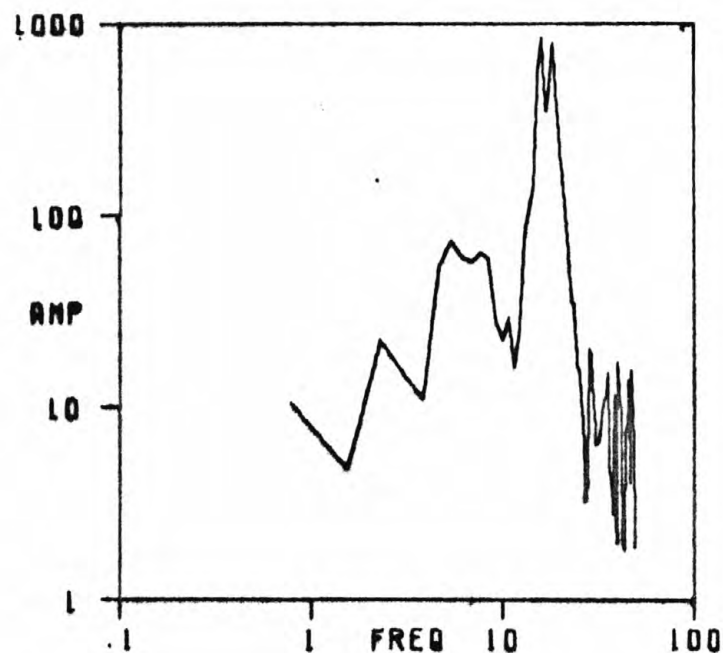
RECORDER LOCATION 268

DISTANCE FROM SHOT (KM) = -89.625

TSCALE (CM/SEC) = 10.0



33



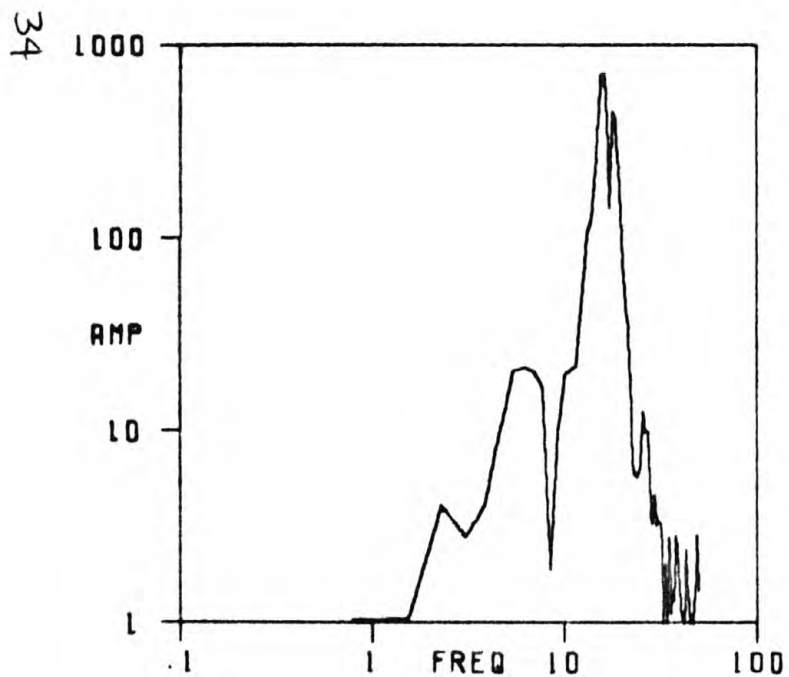
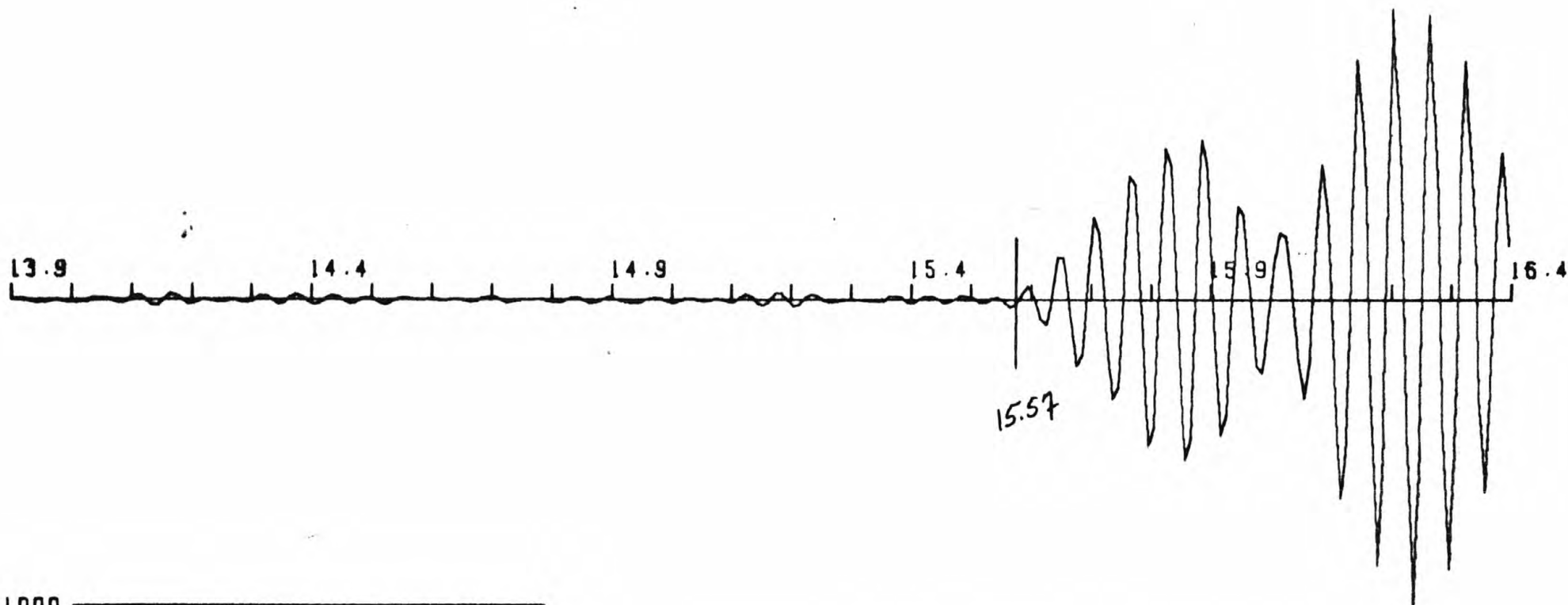
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 1

RECORDER LOCATION 270

DISTANCE FROM SHOT (KM) = -92.719

TS SCALE (CM/SEC) = 10.0



SAUDI REFRACTION PROFILE 15.20 BP

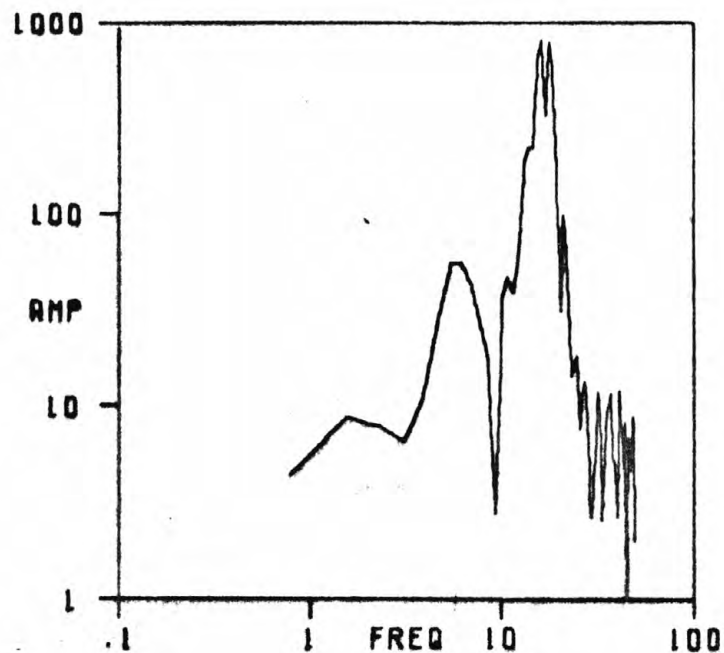
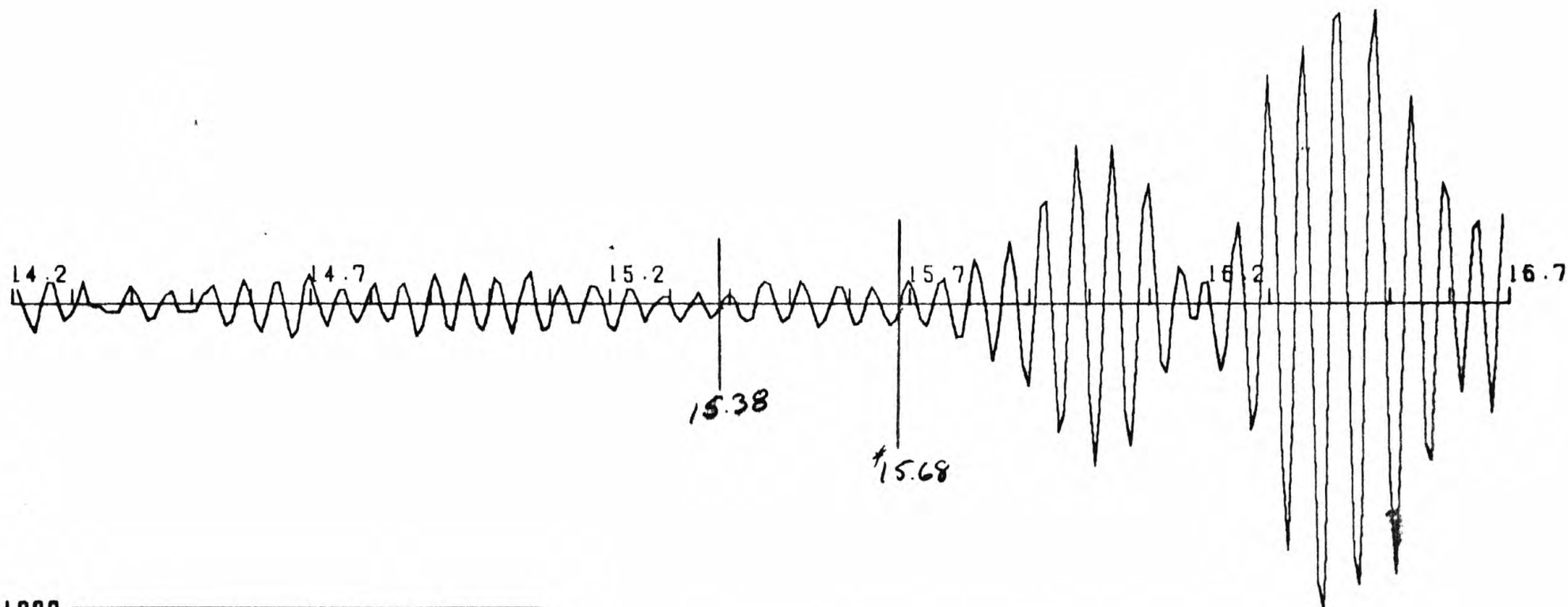
SHOT POINT 1

RECORDER LOCATION 271

DISTANCE FROM SHOT (KM) = -94.843

TSCALE (CM/SEC) = 10.0

35



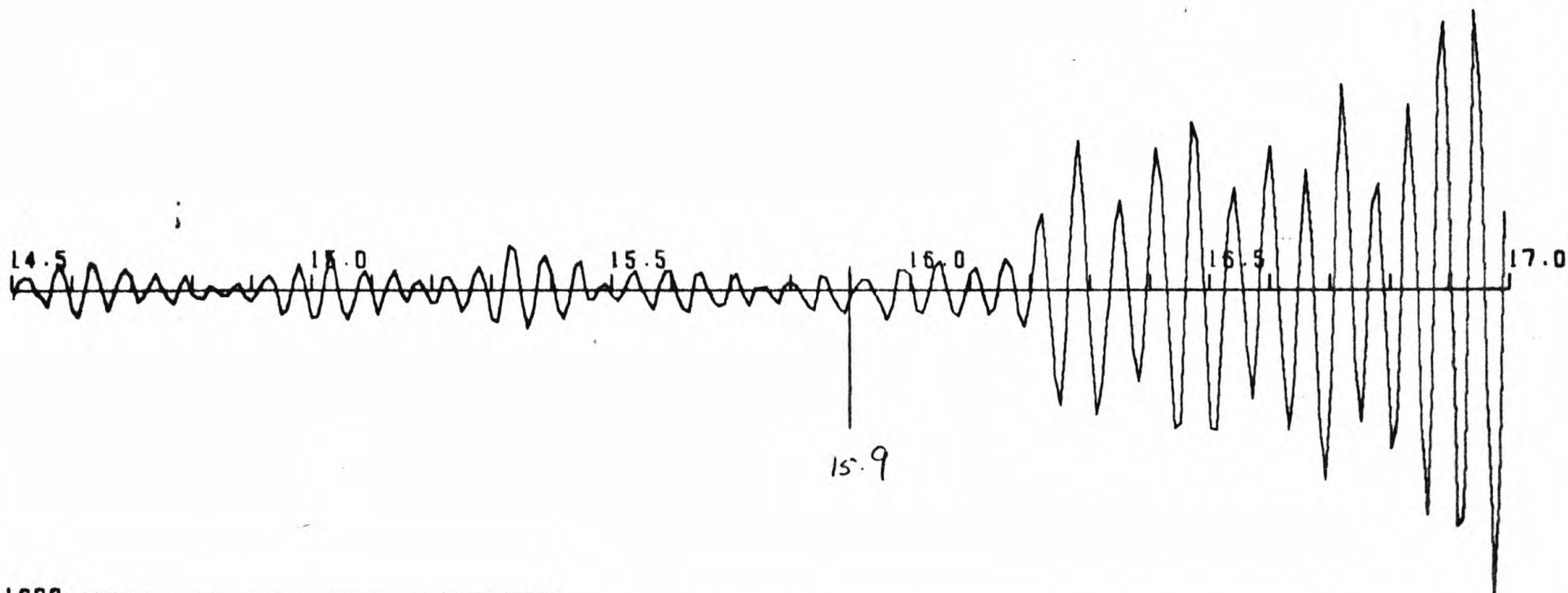
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 1

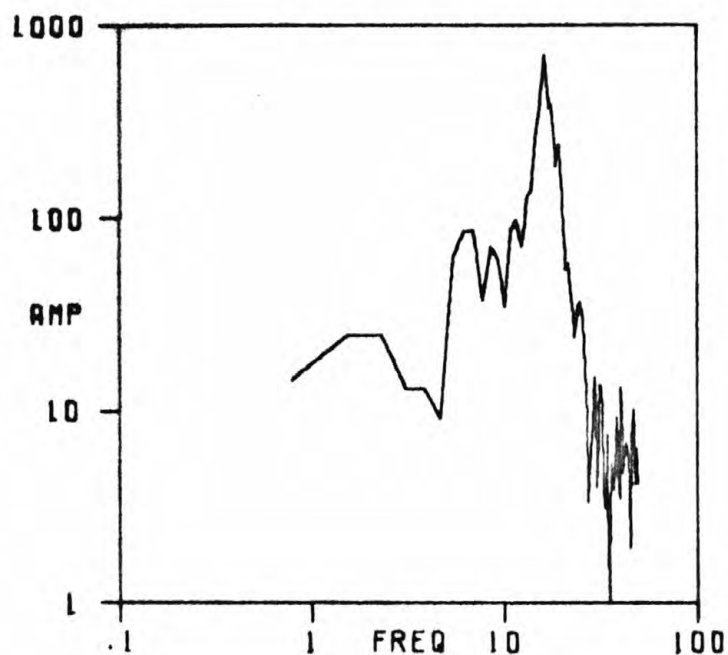
RECORDER LOCATION 272

DISTANCE FROM SHOT (KM) = -97.027

TSCALE (CM/SEC) = 10.0



36



SAUDI REFRACTION PROFILE 15.20 BP

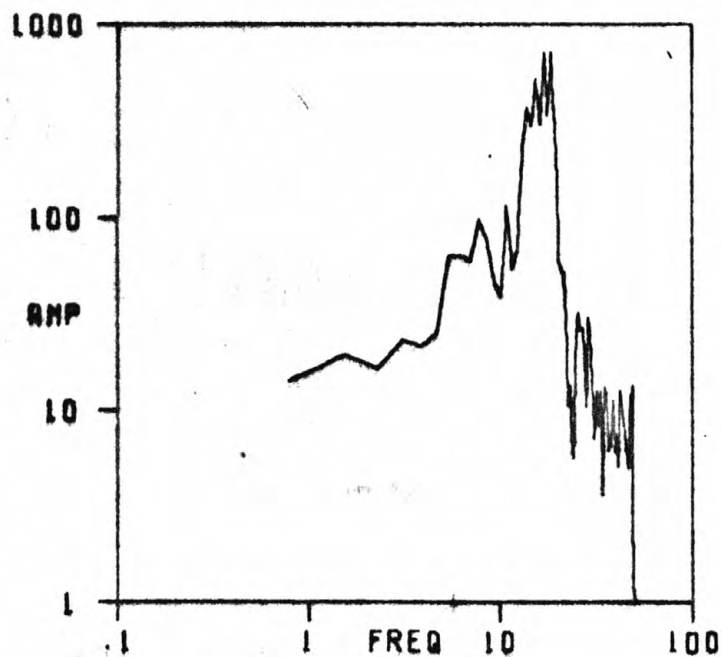
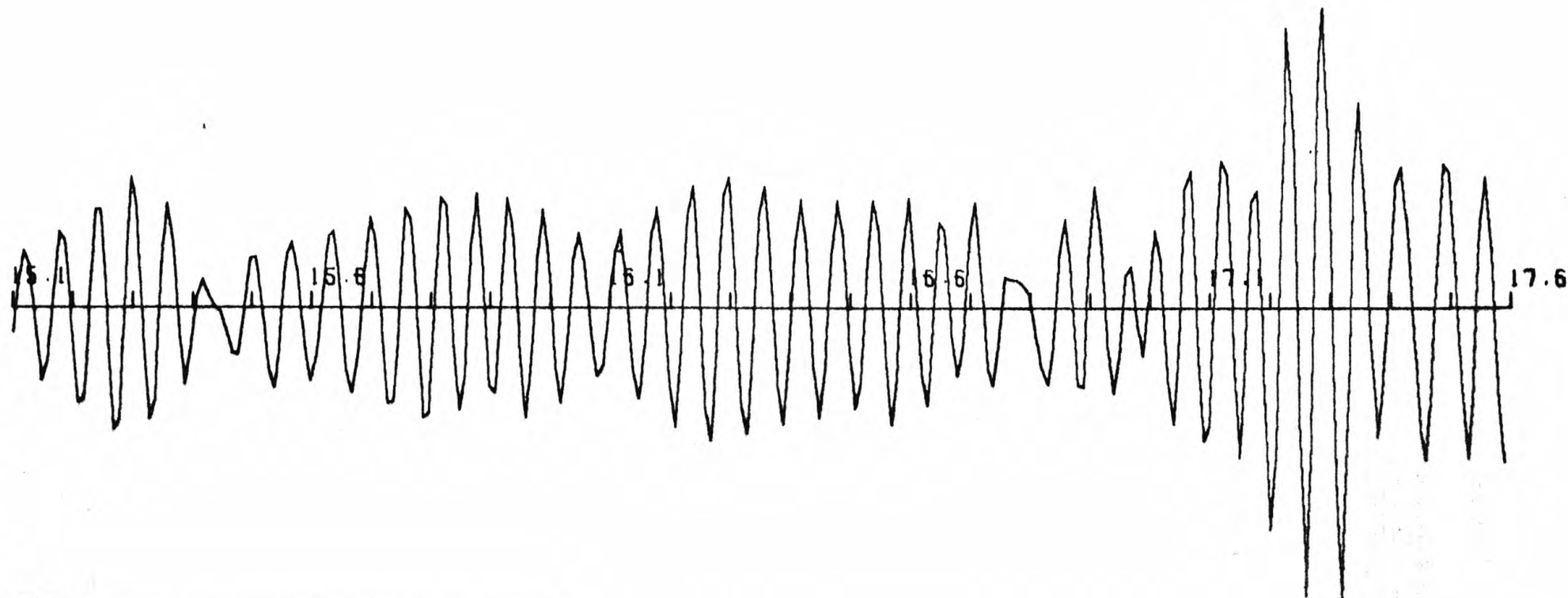
SHOT POINT 1

RECORDER LOCATION 273

DISTANCE FROM SHOT (KM) = -98.901

TSCALE (CM/SEC) = 10.0

37



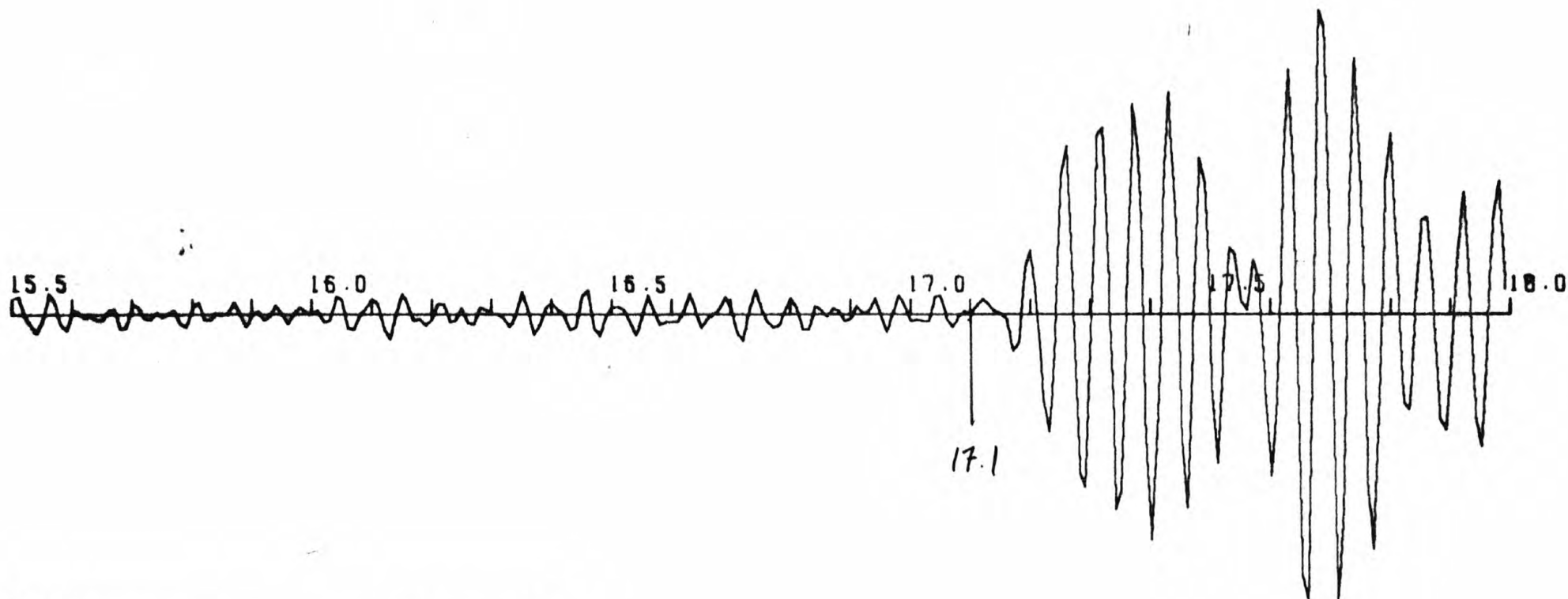
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 1

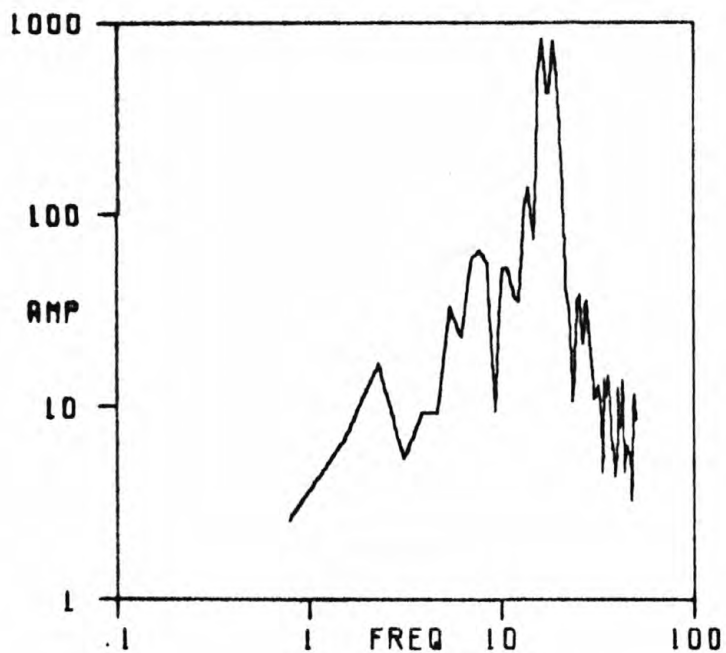
RECORDER LOCATION 274

DISTANCE FROM SHOT (KM) = -102.184

TSCALE (CM/SEC) = 10.0



38



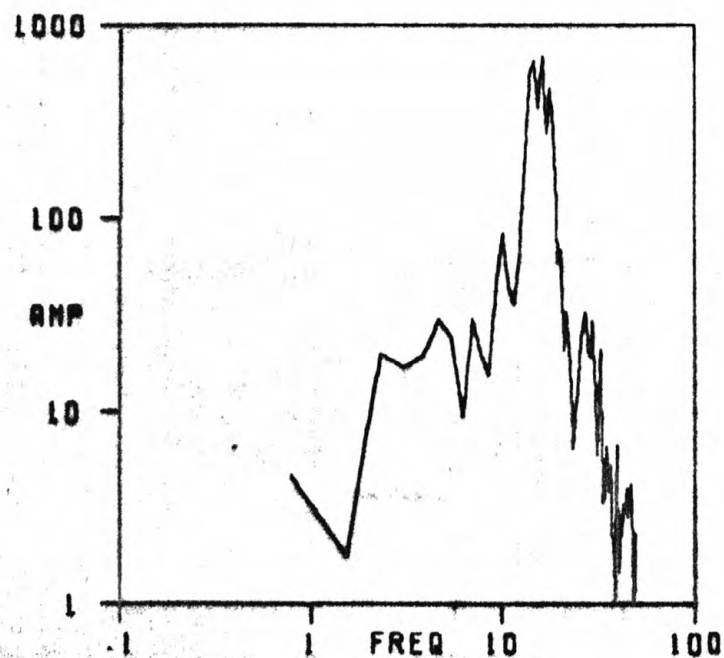
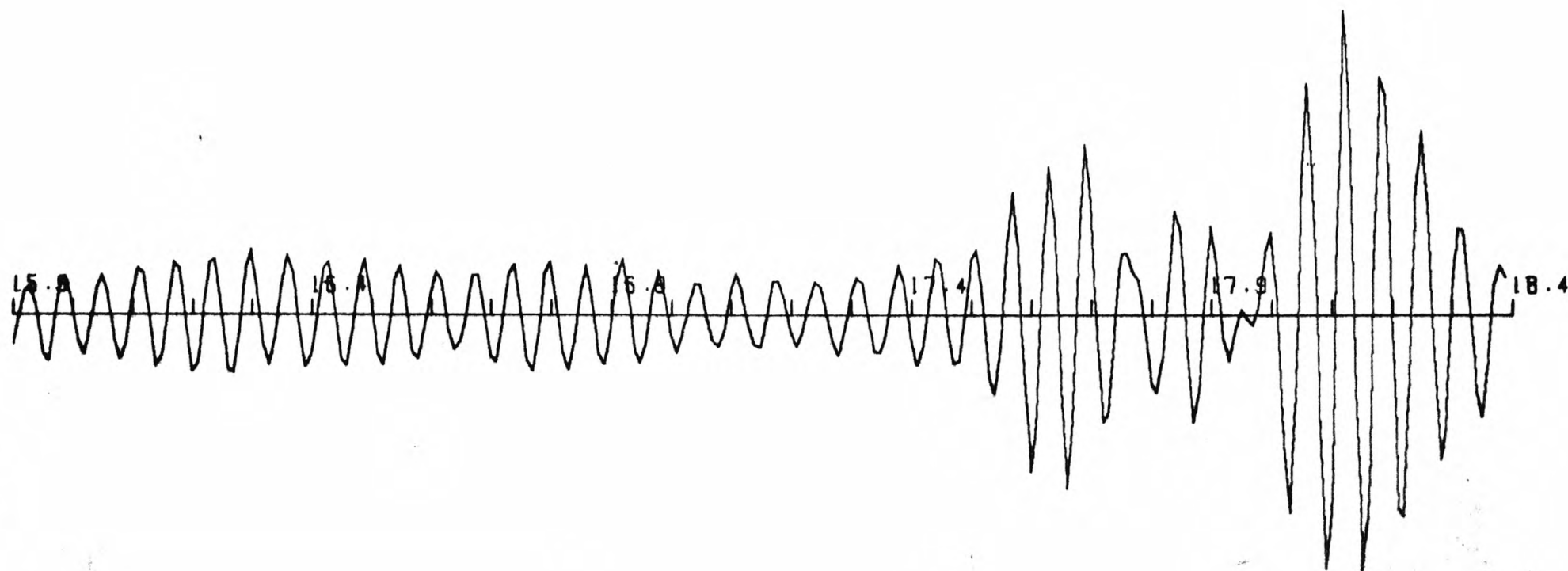
SAUDI REFRACTION PROFILE 15,20 BP

SHOT POINT 1

RECORDER LOCATION 275

DISTANCE FROM SHOT (KM) = -104.485

TSCALE (CM/SEC) = 10.0



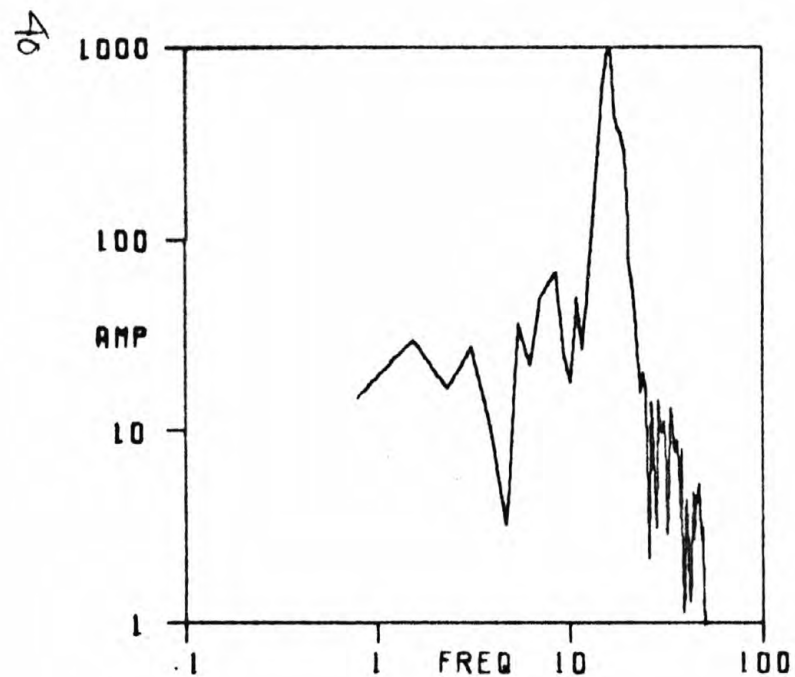
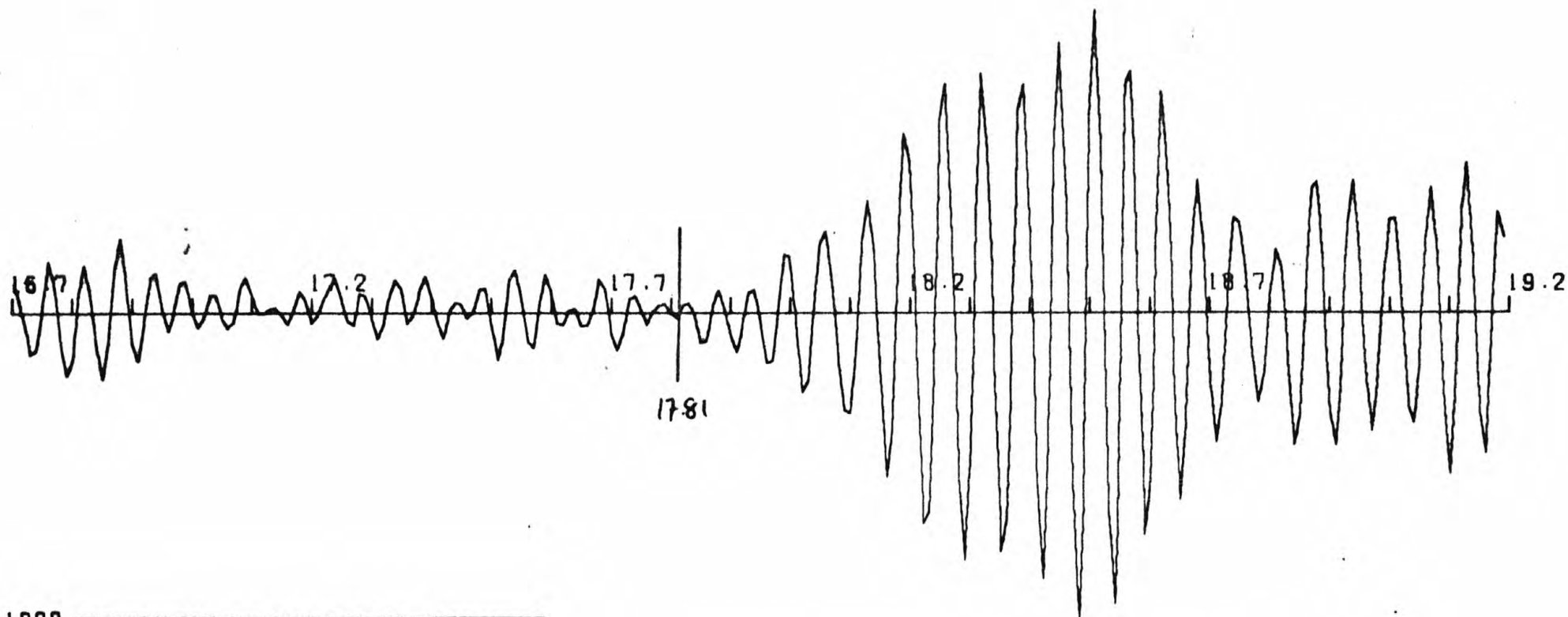
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 1

RECORDER LOCATION 276

DISTANCE FROM SHOT (KM) = -106.987

TS SCALE (CM/SEC) = 10.0



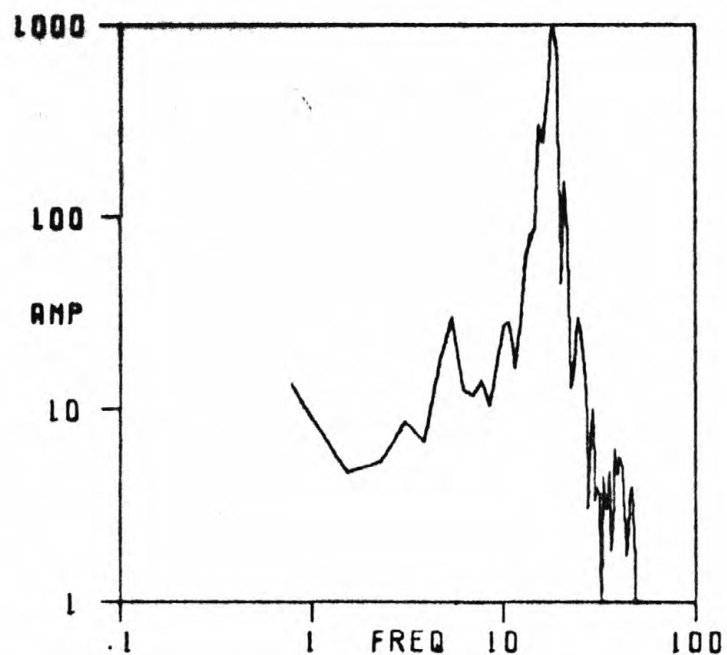
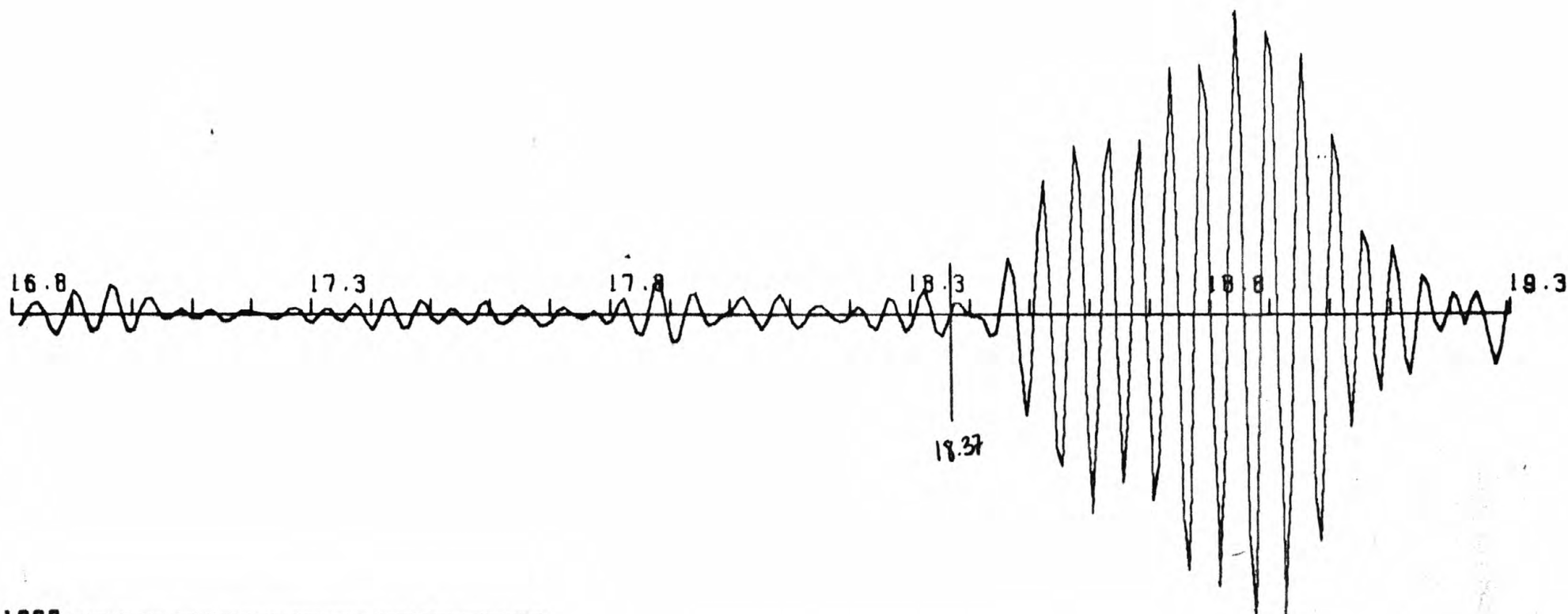
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 1

RECORDER LOCATION 279

DISTANCE FROM SHOT (KM) = -111.677

TSCALE (CM/SEC) = 10.0



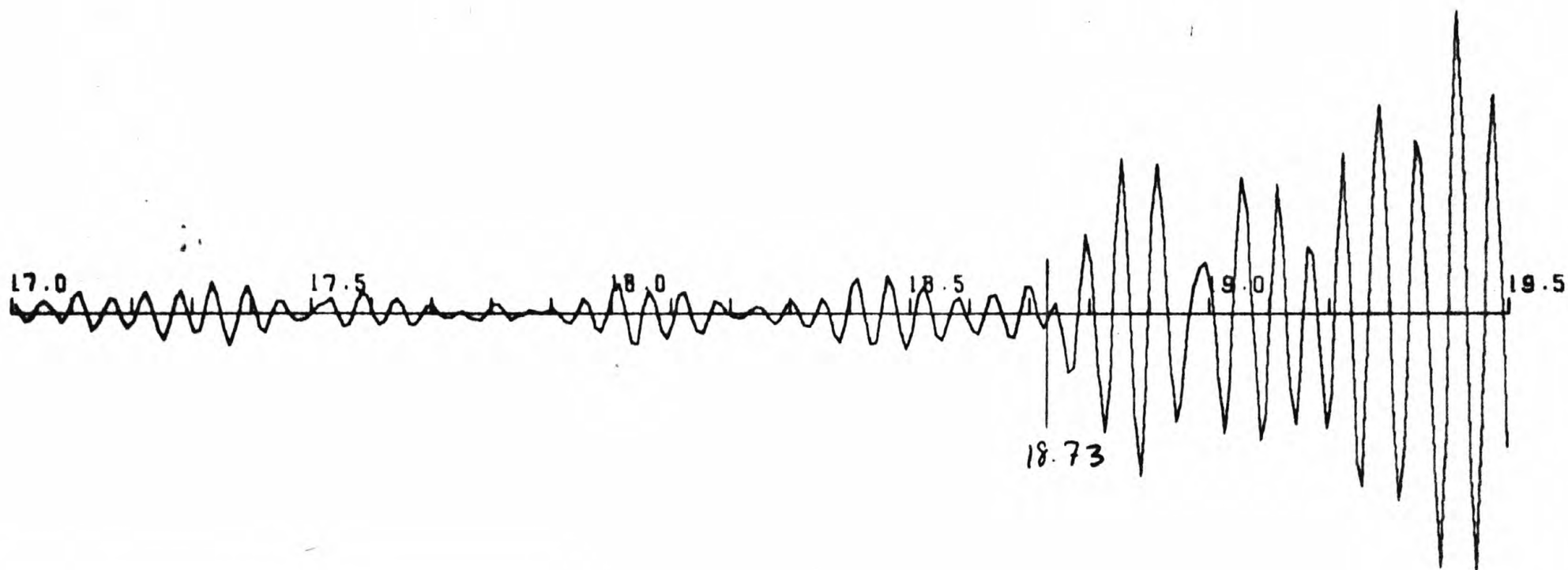
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 1

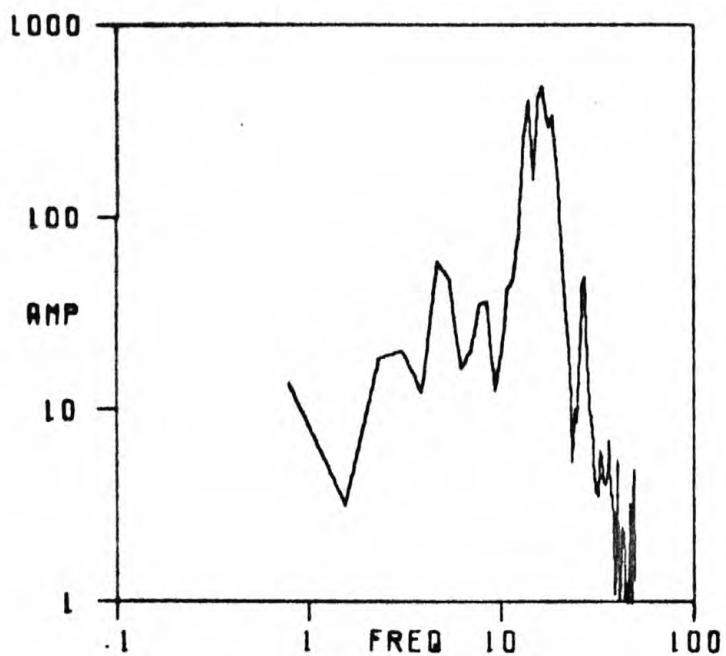
RECORDER LOCATION 280

DISTANCE FROM SHOT (KM) = -112.600

TSCALE (CM/SEC) = 10.0



42



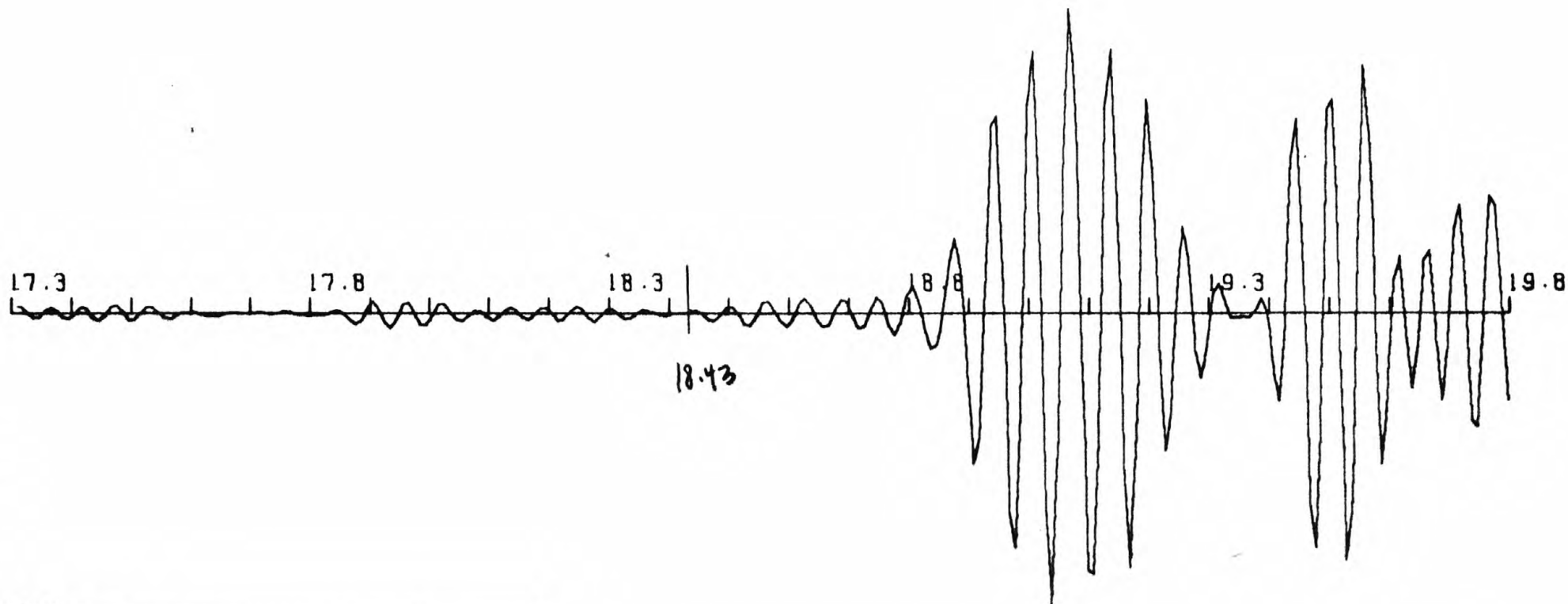
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 1

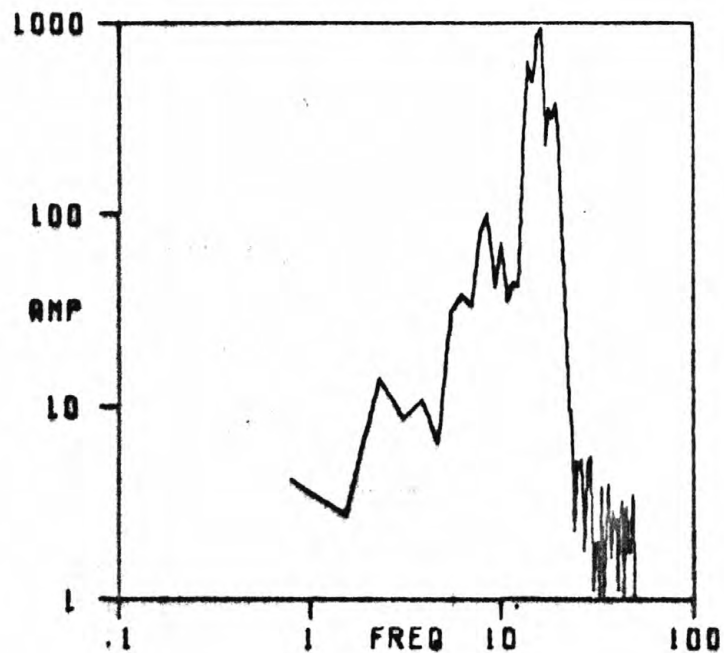
RECORDER LOCATION 281

DISTANCE FROM SHOT (KM) = -113.979

TSCALE (CM/SEC) = 10.0



43



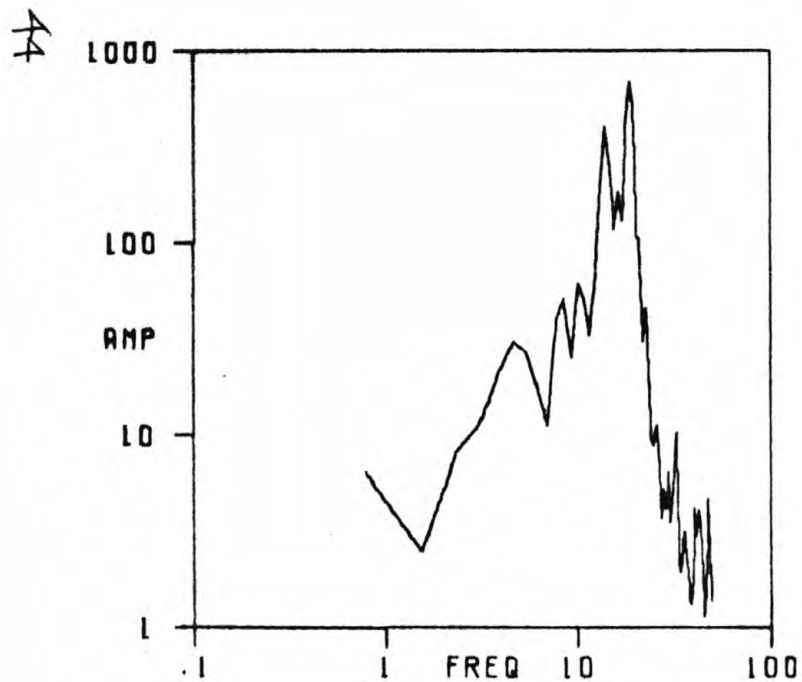
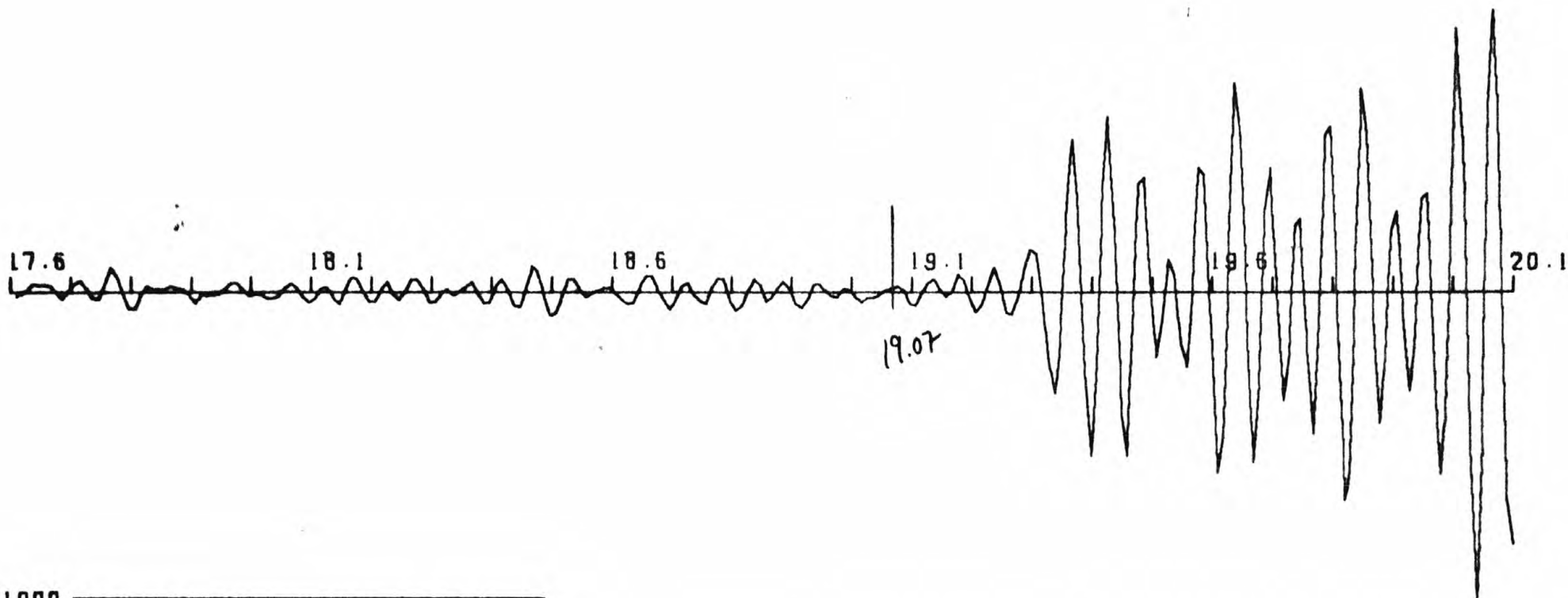
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 1

RECORDER LOCATION 282

DISTANCE FROM SHOT (KM) = -115.317

TSCALE (CM/SEC) = 10.0



SAUDI REFRACTION PROFILE 15.20 BP

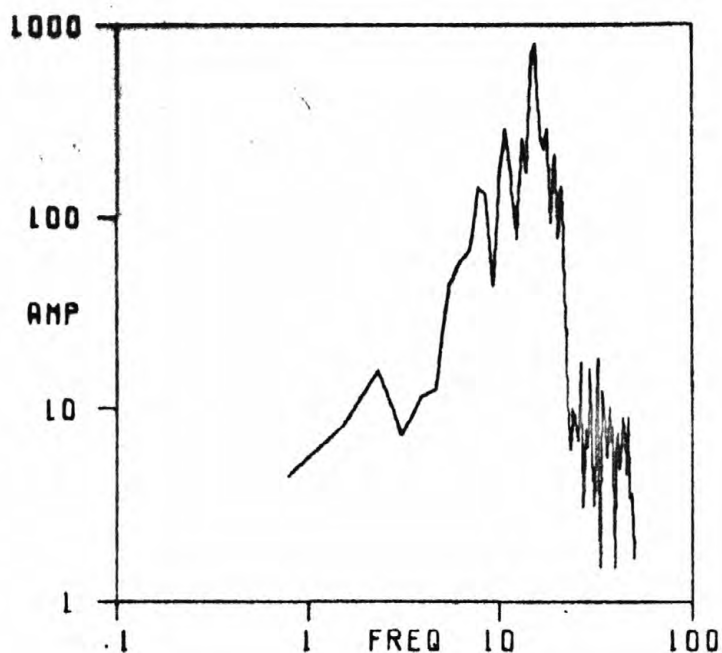
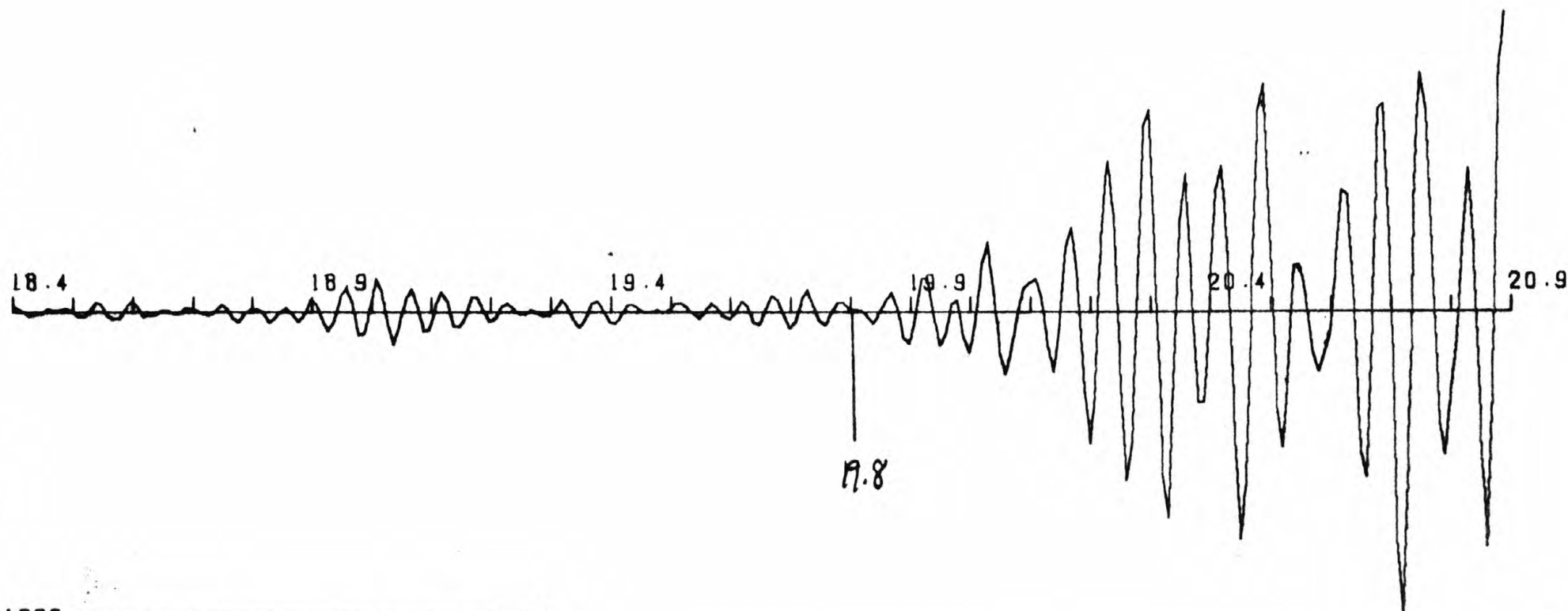
SHOT POINT 1

RECORDER LOCATION 284

DISTANCE FROM SHOT (KM) = -117.419

TSCALE (CM/SEC) = 10.0

45



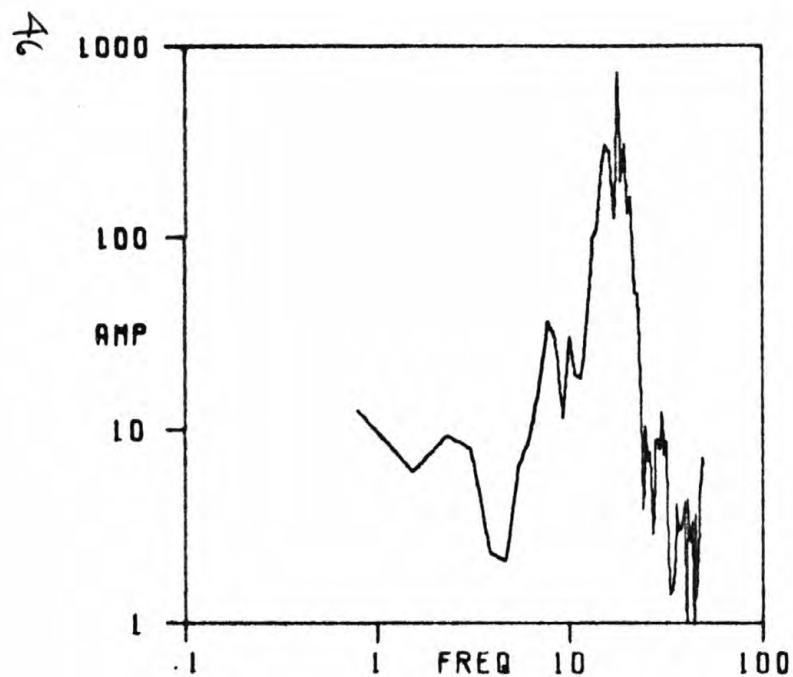
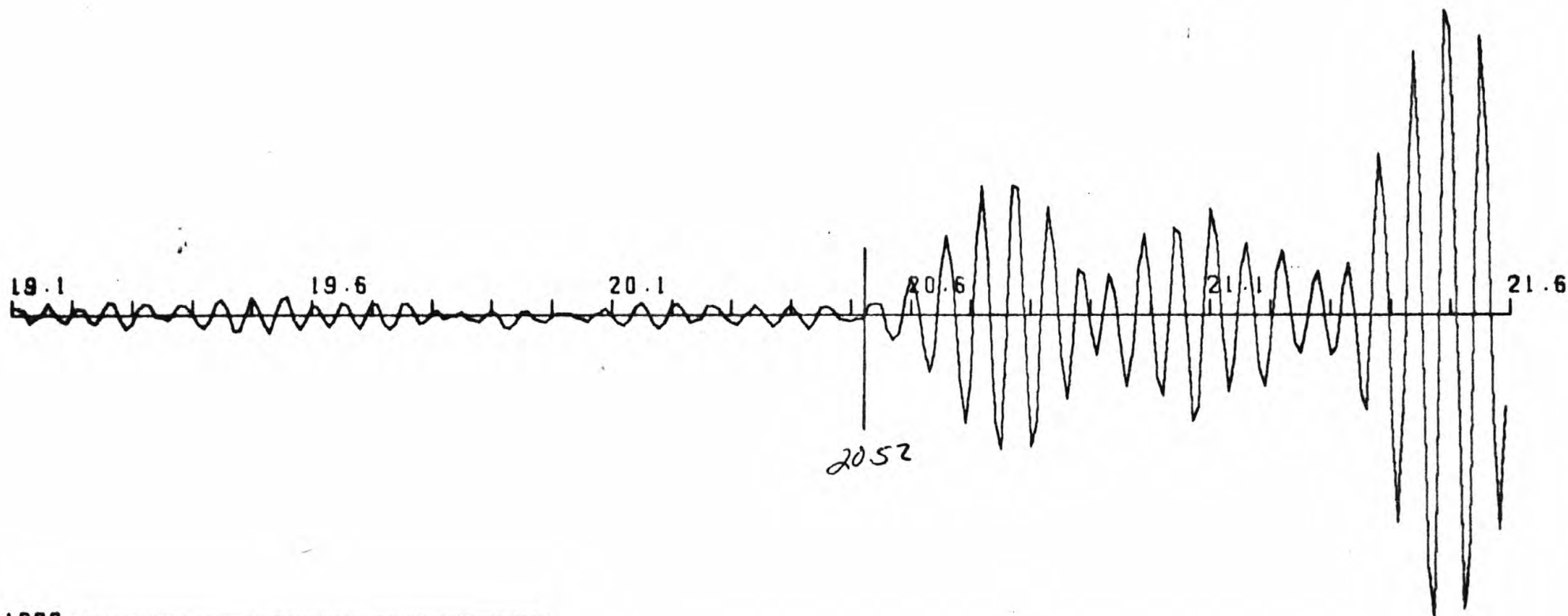
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 1

RECORDER LOCATION 287

DISTANCE FROM SHOT (KM) = -122.045

TSCALE (CM/SEC) = 10.0



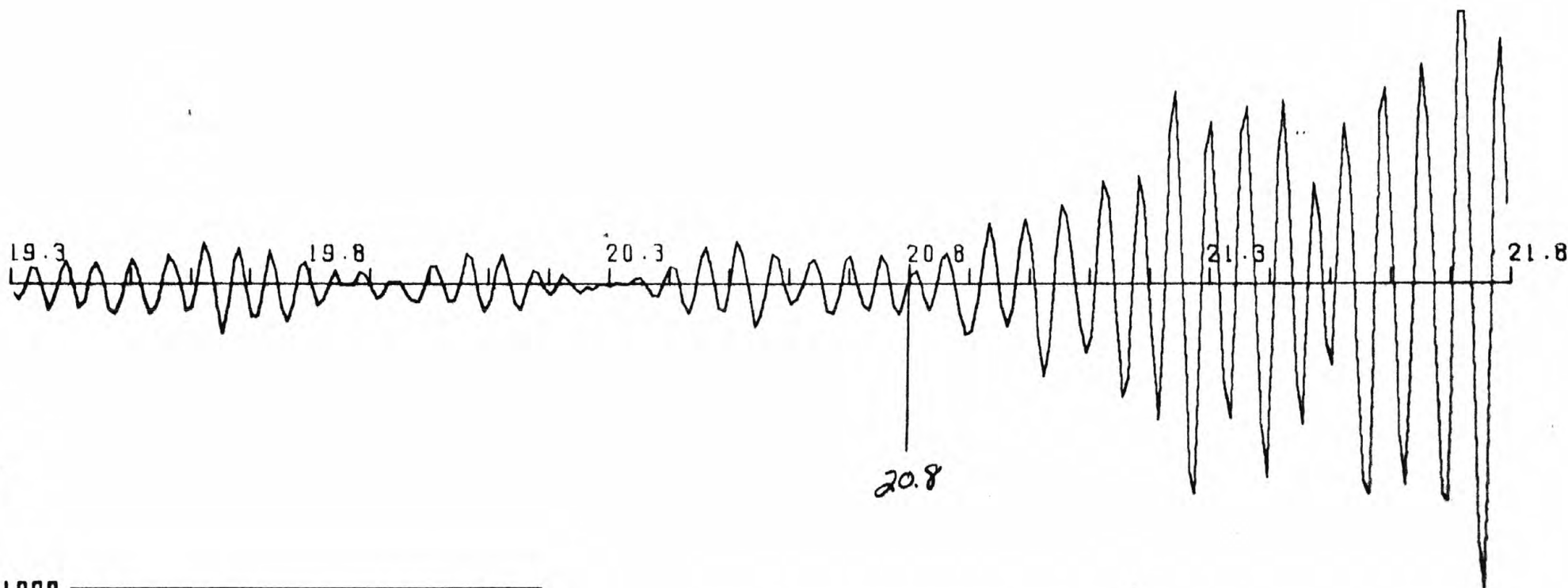
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 1

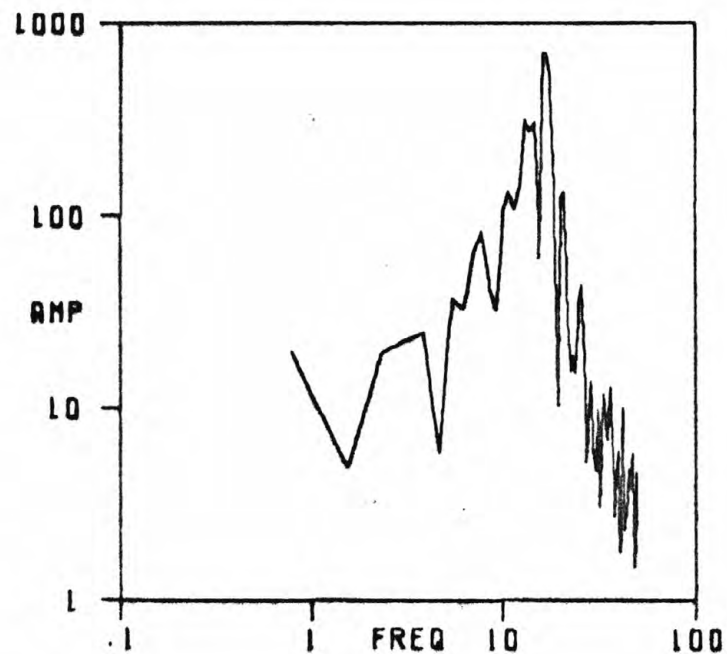
RECORDER LOCATION 290

DISTANCE FROM SHOT (KM) = -126.138

TSCALE (CM/SEC) = 10.0



47



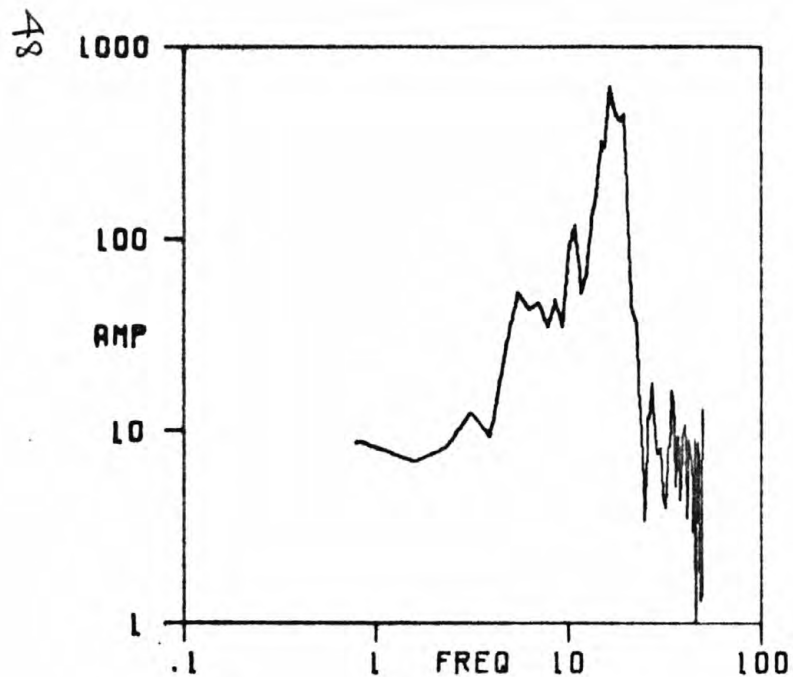
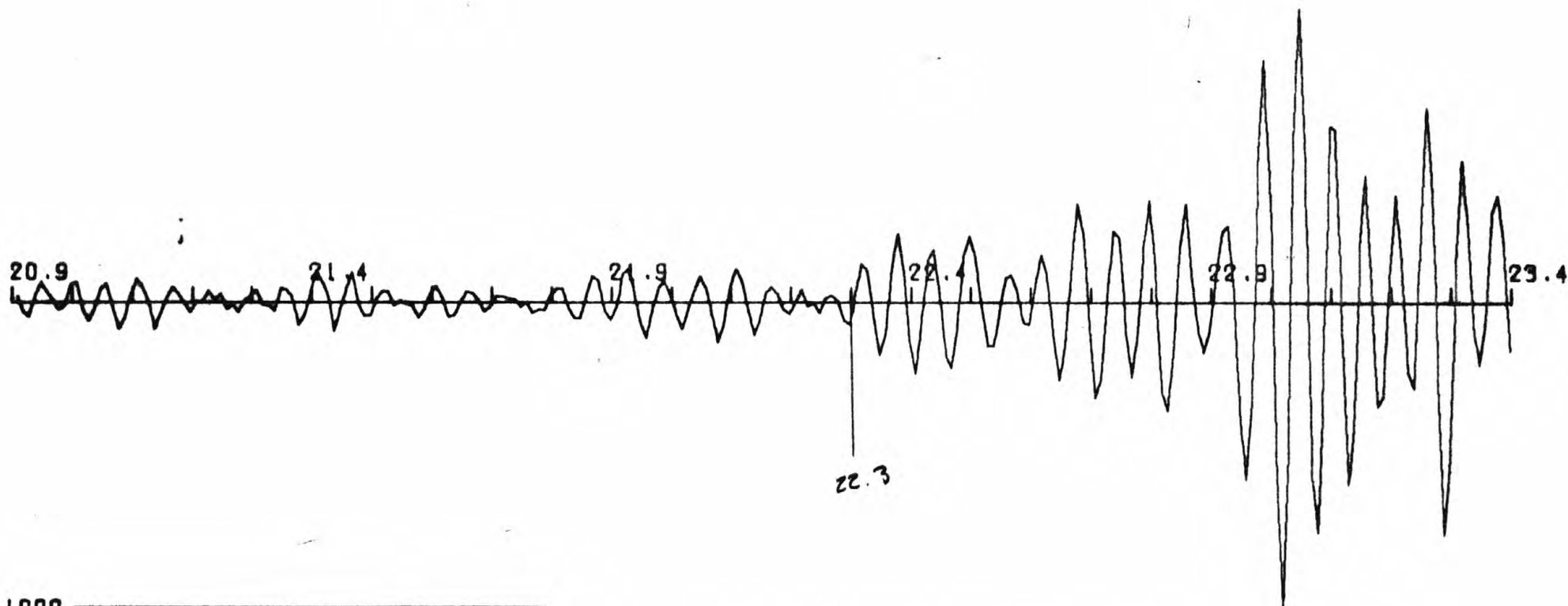
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 1

RECORDER LOCATION 291

DISTANCE FROM SHOT (KM) = -127.595

TSCALE (CM/SEC) = 10.0



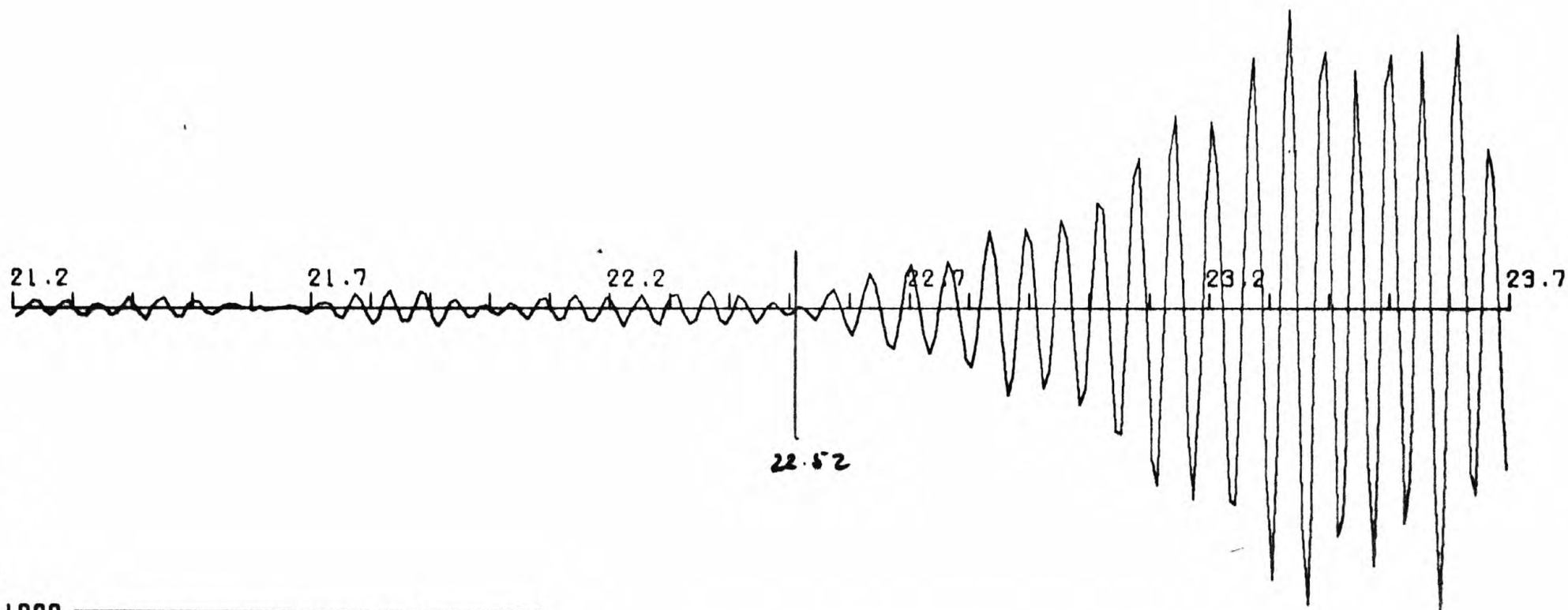
SAUDI REFRACTION PROFILE 15.20

SHOT POINT 1

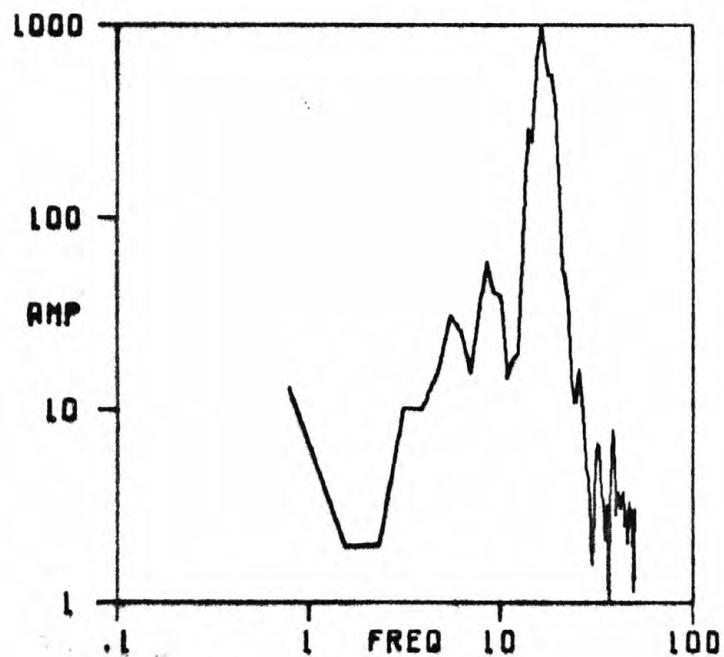
RECORDER LOCATION 293

DISTANCE FROM SHOT (KM) = -130.918

TSCALE (CM/SEC) = 10.0



49



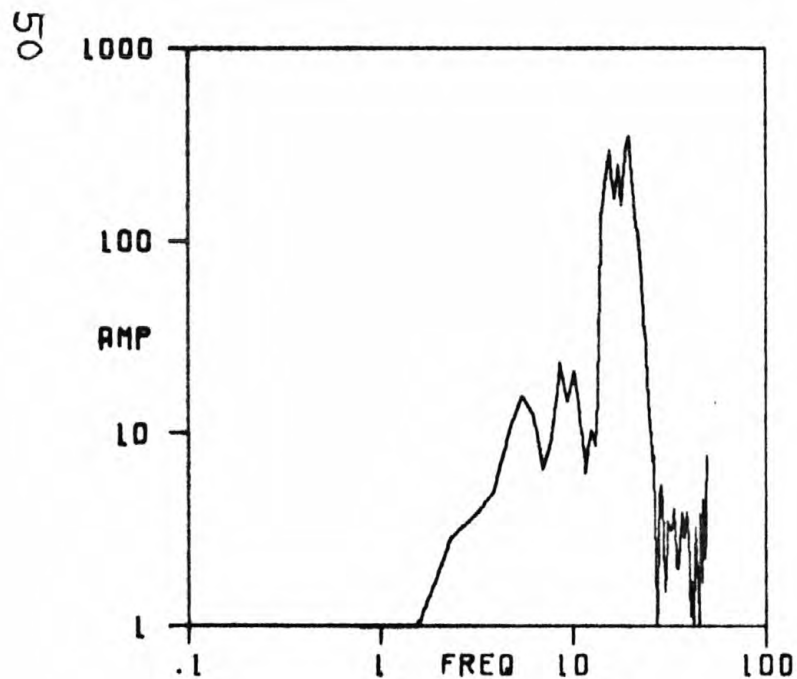
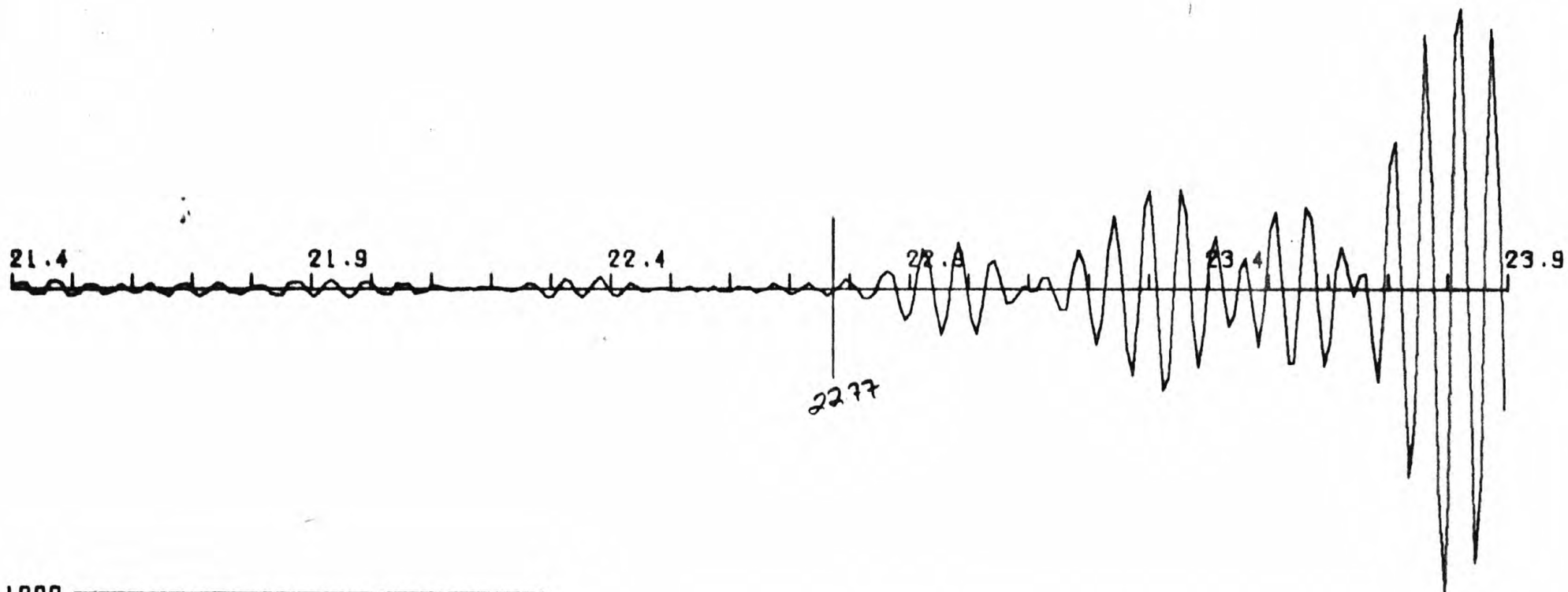
SAUDI REFRACTION PROFILE 15.20

SHOT POINT 1

RECORDER LOCATION 294

DISTANCE FROM SHOT (KM) = -132.755

TSCALE (CM/SEC) = 10.0



SAUDI REFRACTION PROFILE 15.20

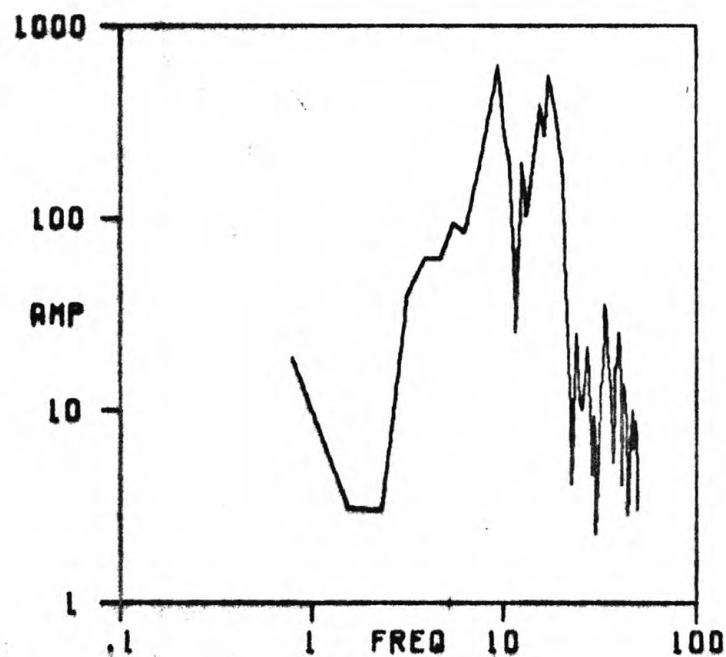
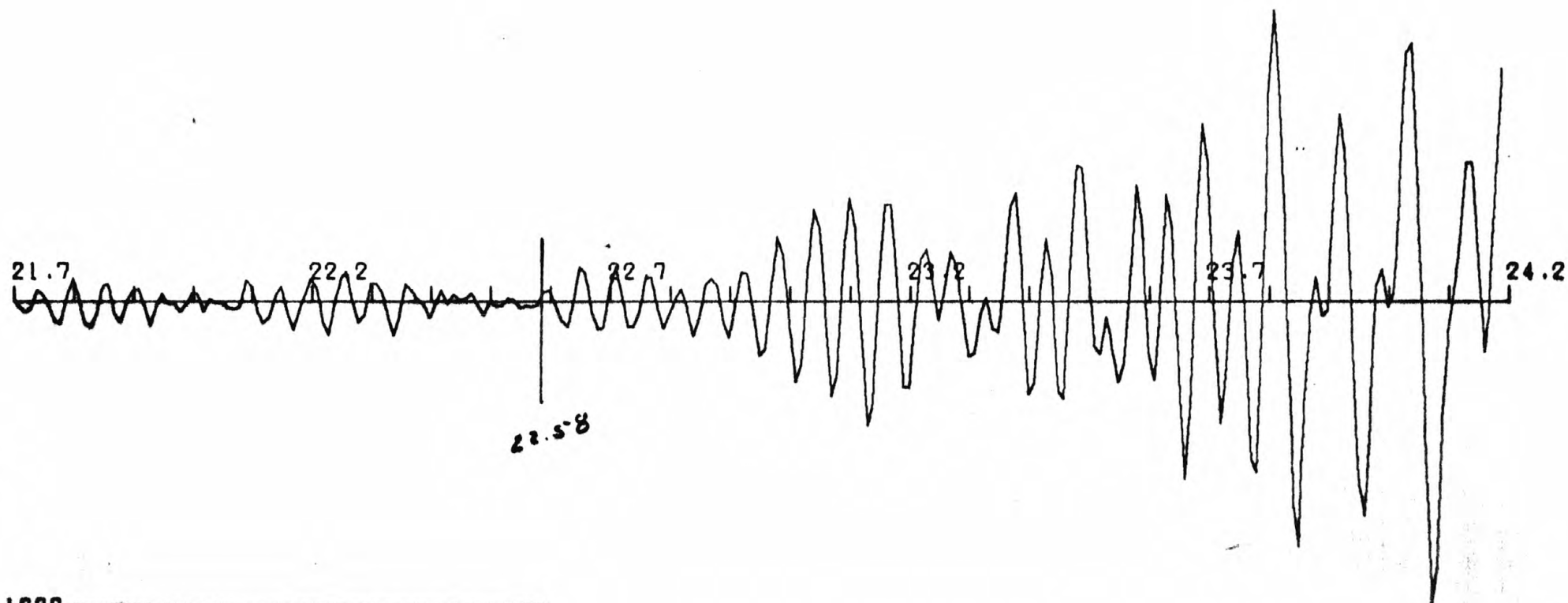
SHOT POINT 1

RECORDER LOCATION 295

DISTANCE FROM SHOT (KM) = -134.128

TSCALE (CM/SEC) = 10.0

51



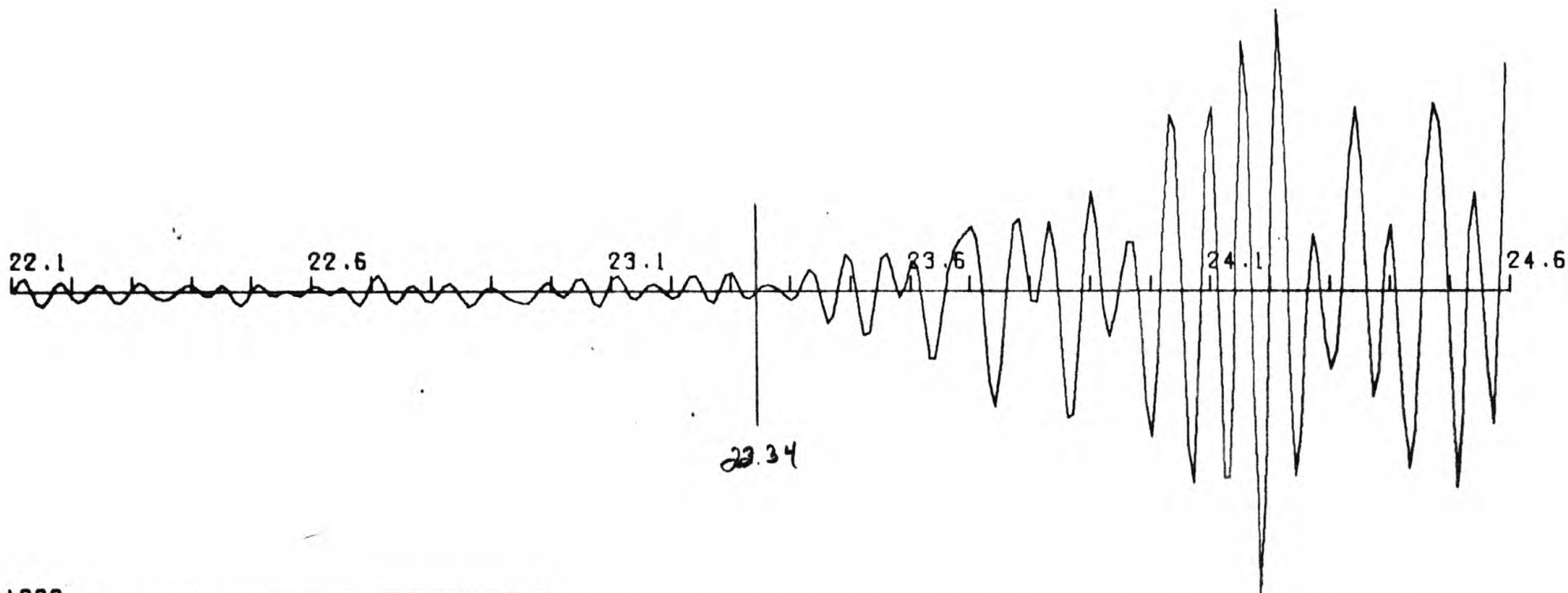
SAUDI REFRACTION PROFILE 15.20

SHOT POINT 1

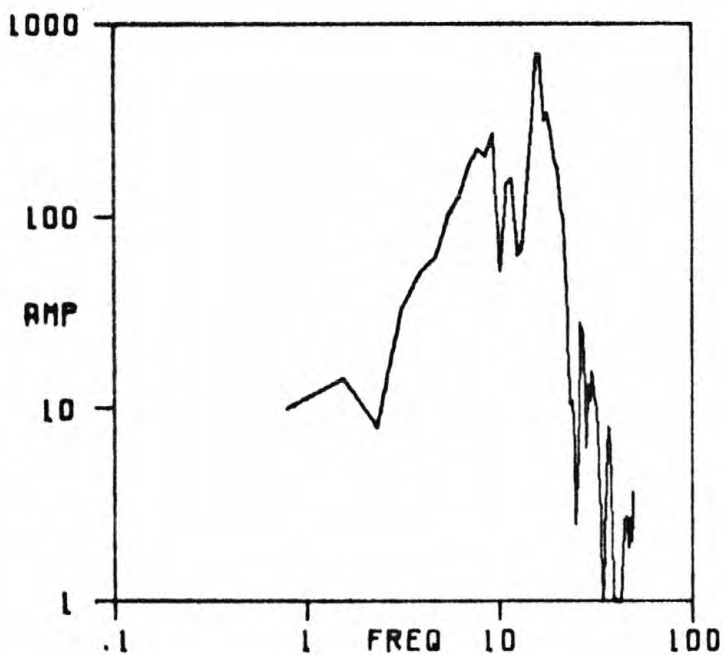
RECORDER LOCATION 296

DISTANCE FROM SHOT (KM) = -135.960

TSCALE (CM/SEC) = 10.0



52



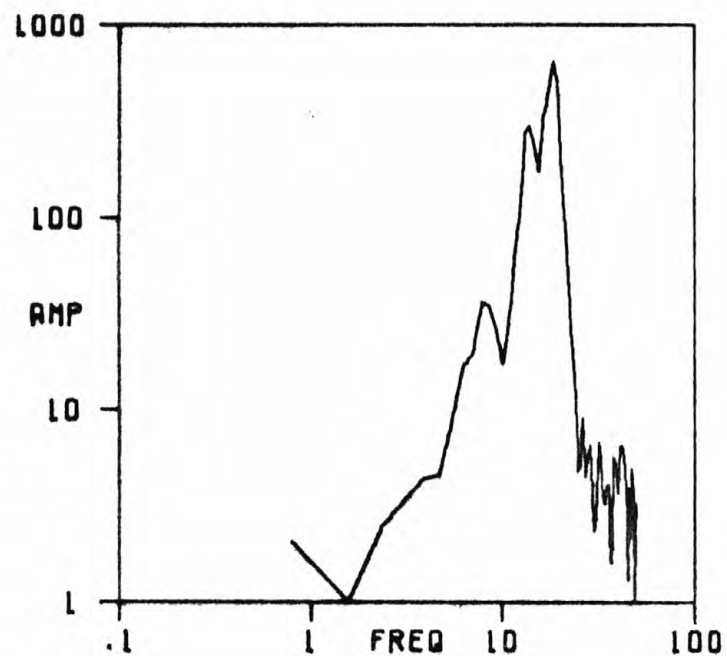
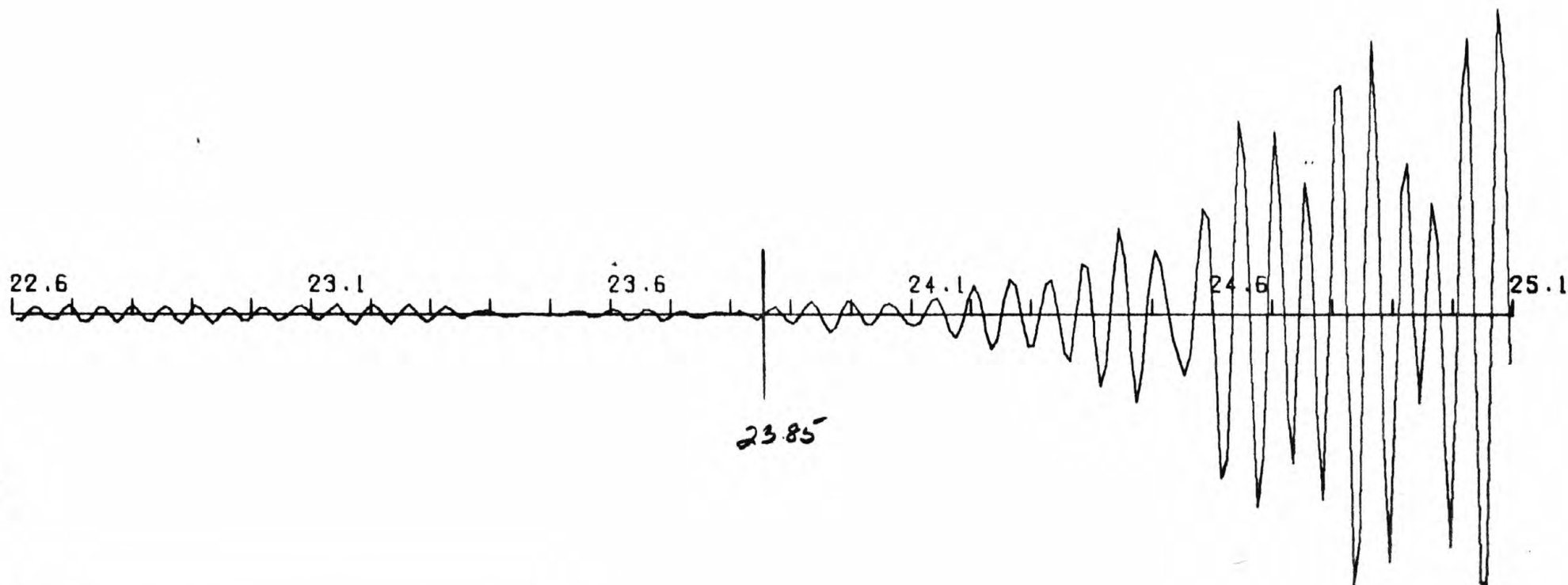
SAUDI REFRACTION PROFILE 15.20

SHOT POINT 1

RECORDER LOCATION 297

DISTANCE FROM SHOT (KM) = -138.084

TSCALE (CM/SEC) = 10.0



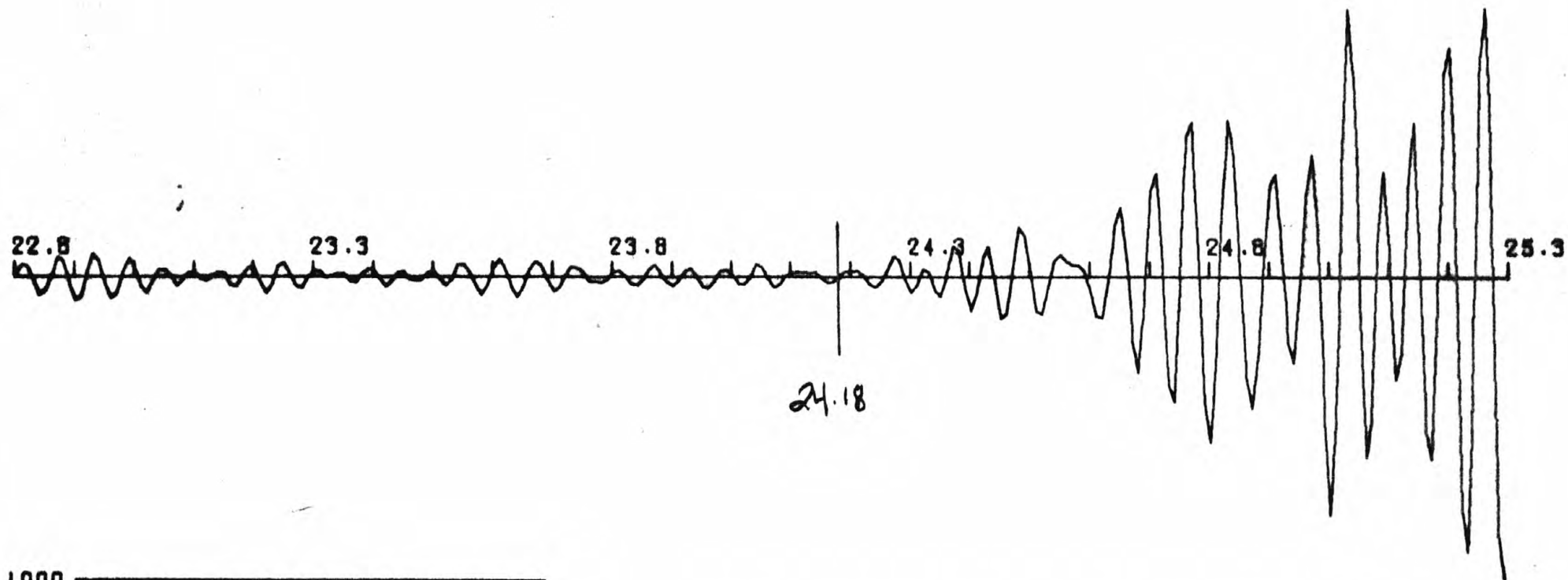
SAUDI REFRACTION PROFILE 15.20

SHOT POINT 1

RECORDER LOCATION 299

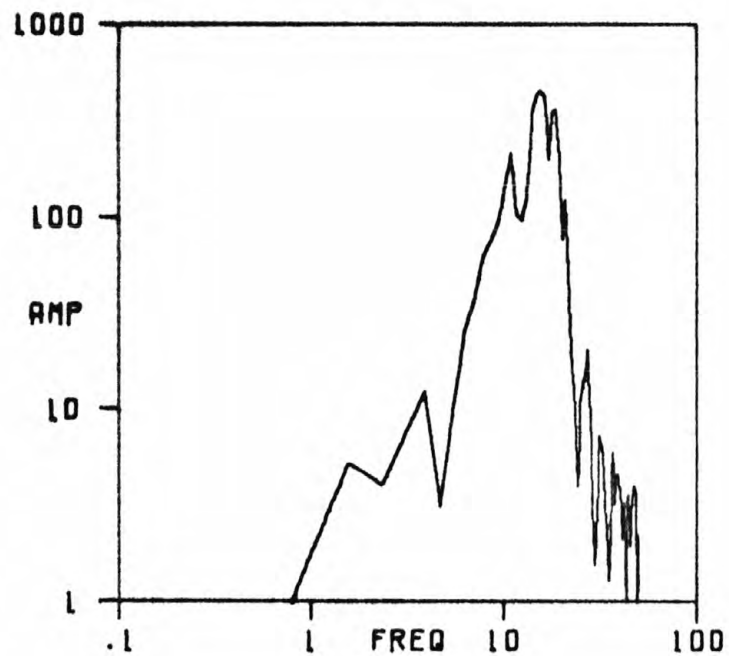
DISTANCE FROM SHOT (KM) = -141.220

TSCALE (CM/SEC) = 10.0



24.18

54



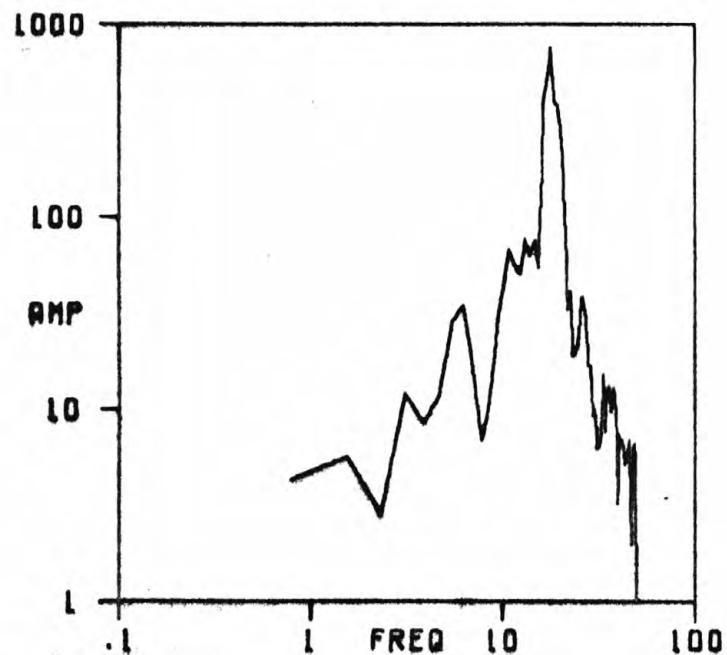
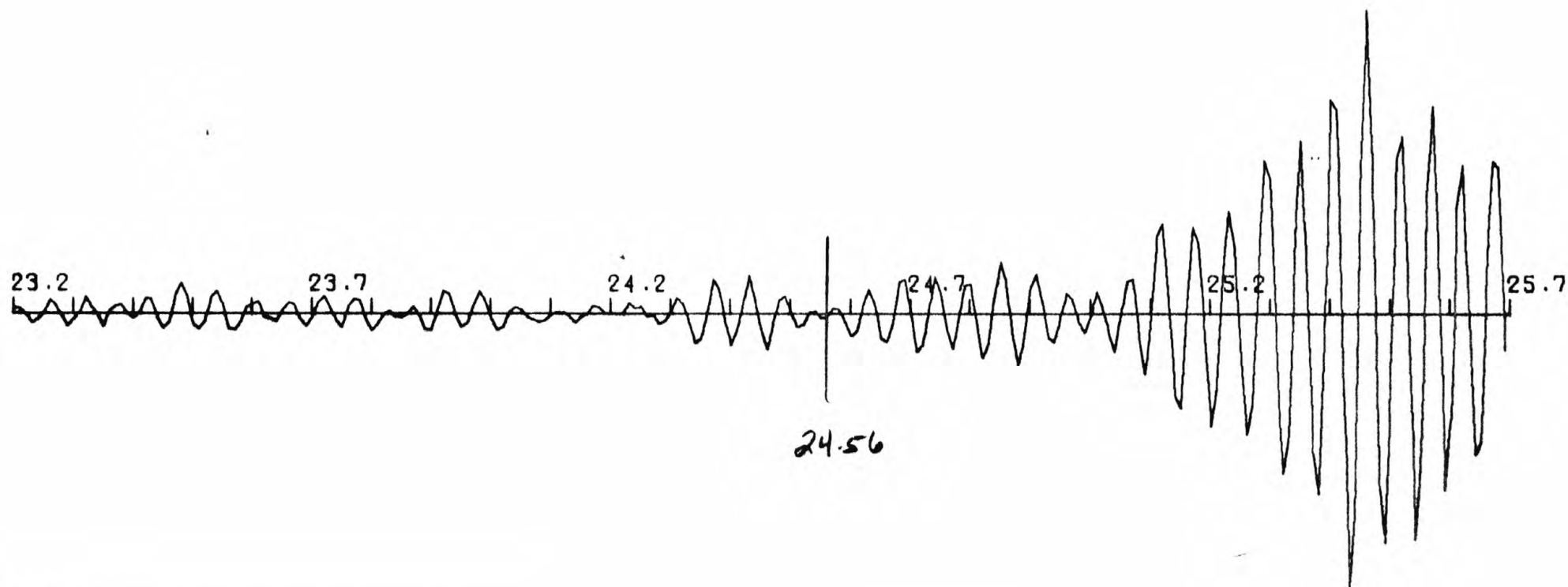
SAUDI REFRACTION PROFILE 15.20

SHOT POINT 1

RECORDER LOCATION 300

DISTANCE FROM SHOT (KM) = -142.646

TSCALE (CM/SEC) = 10.0



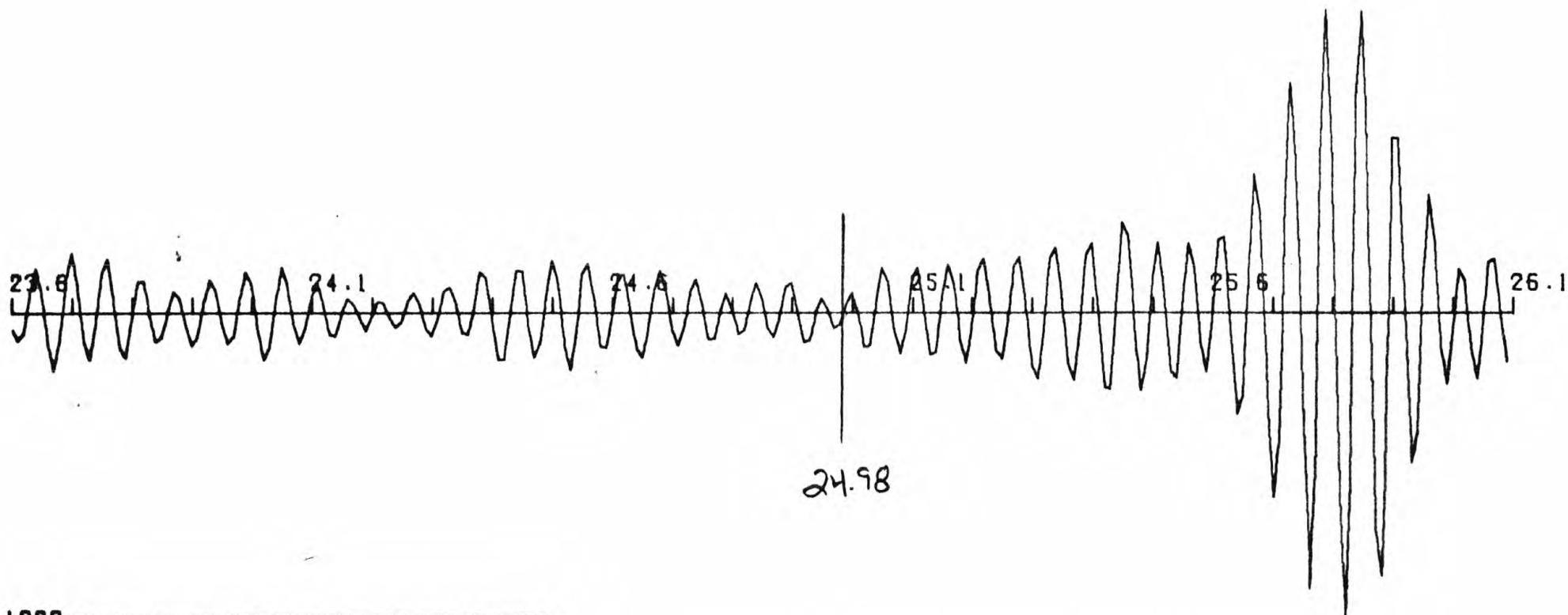
SAUDI REFRACTION PROFILE 15.20

SHOT POINT 1

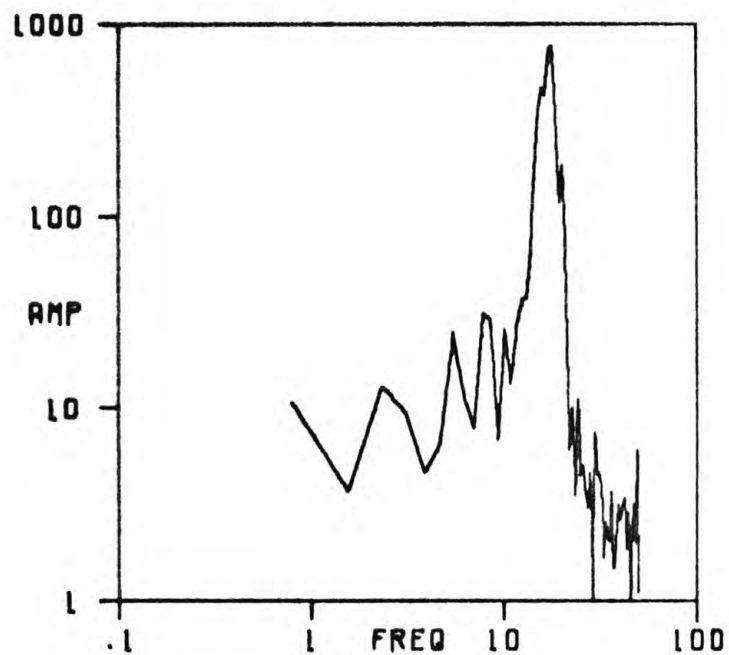
RECORDER LOCATION 302

DISTANCE FROM SHOT (KM) = -145.042

TSCALE (CM/SEC) = 10.0



56



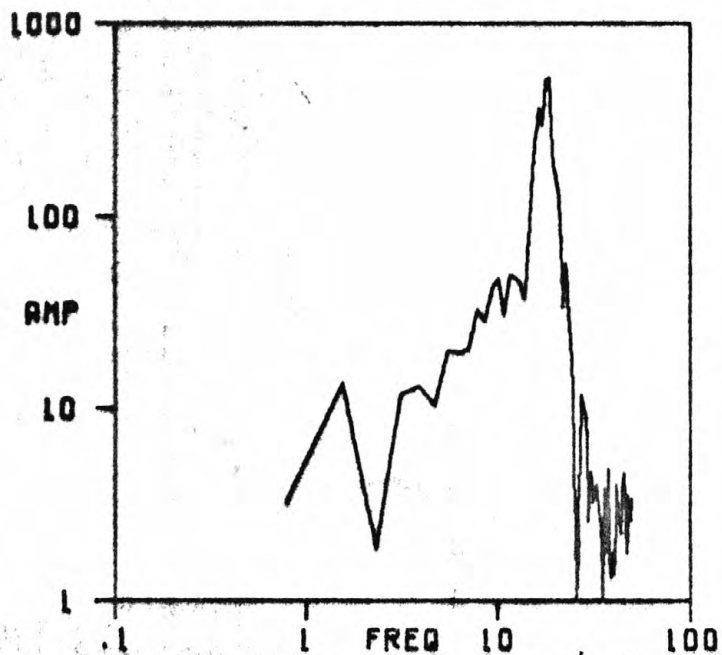
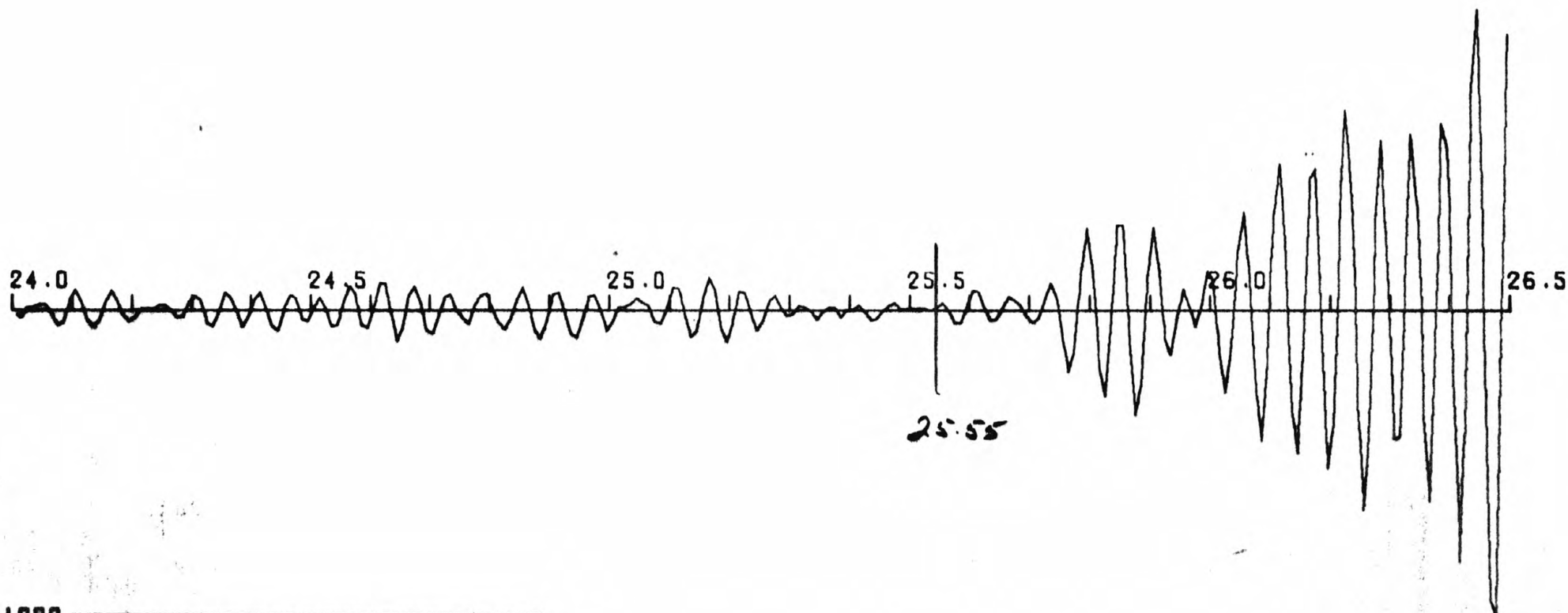
SAUDI REFRACTION PROFILE 15.20

SHOT POINT 1

RECORDER LOCATION 304

DISTANCE FROM SHOT (KM) = -147.366

TSCALE (CM/SEC) = 10.0



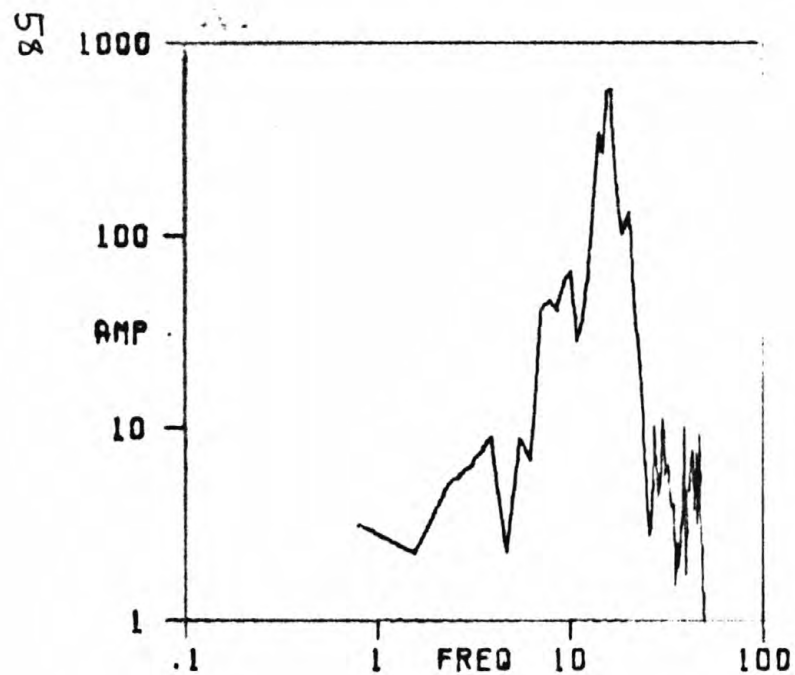
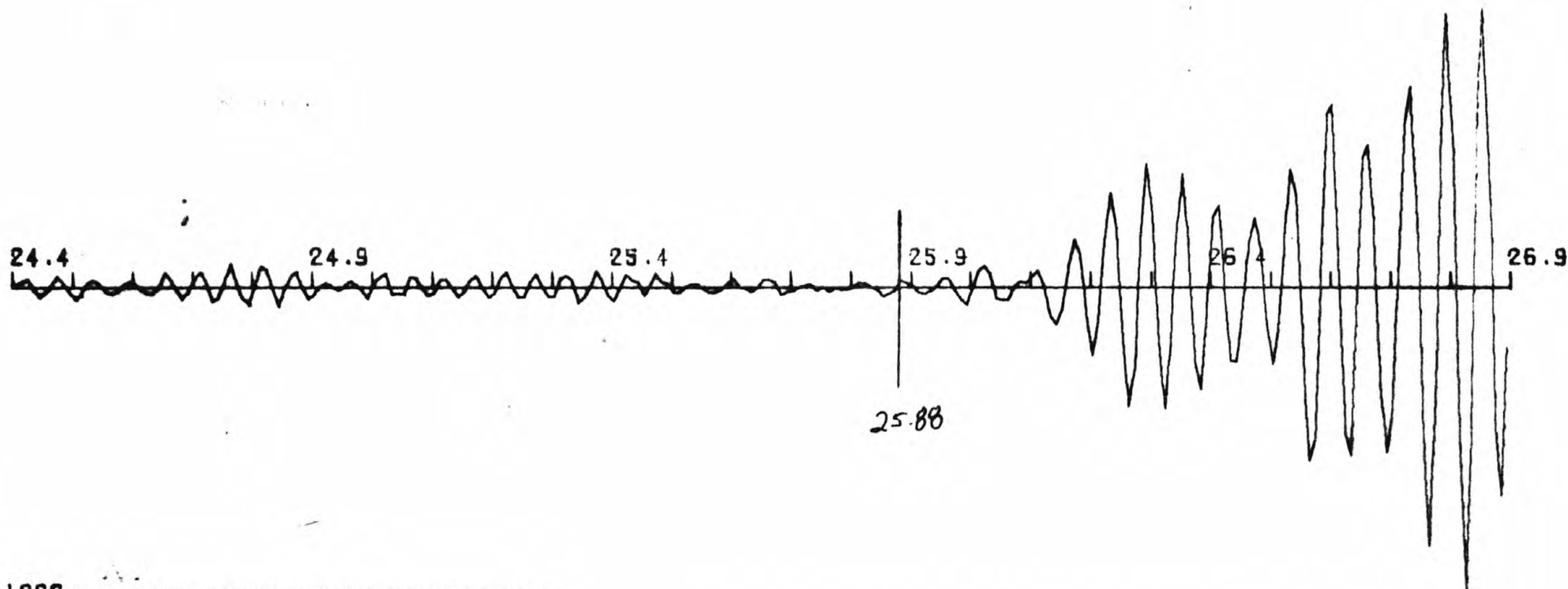
SAUDI REFRACTION PROFILE 15.20

SHOT POINT 1

RECORDER LOCATION 305

DISTANCE FROM SHOT (KM) = -149.506

TSCALE (CM/SEC) = 10.0



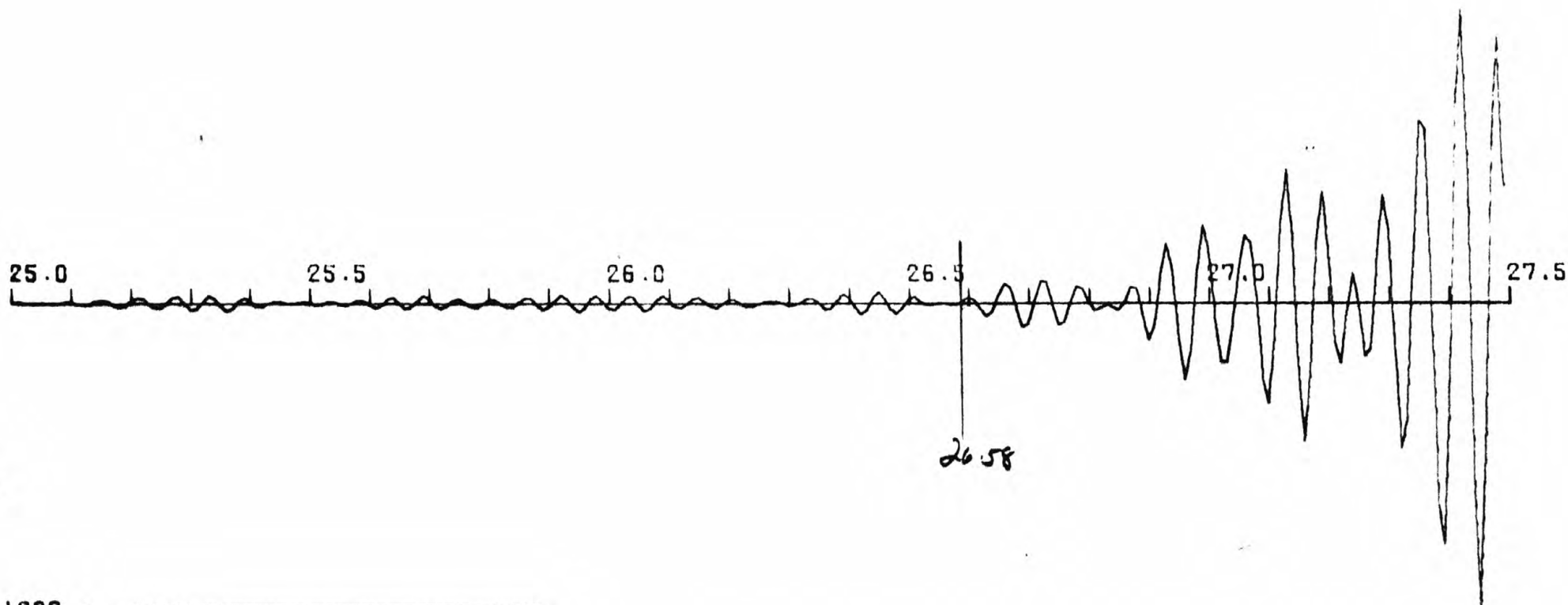
SAUDI REFRACTION PROFILE 15.20

SHOT POINT 1

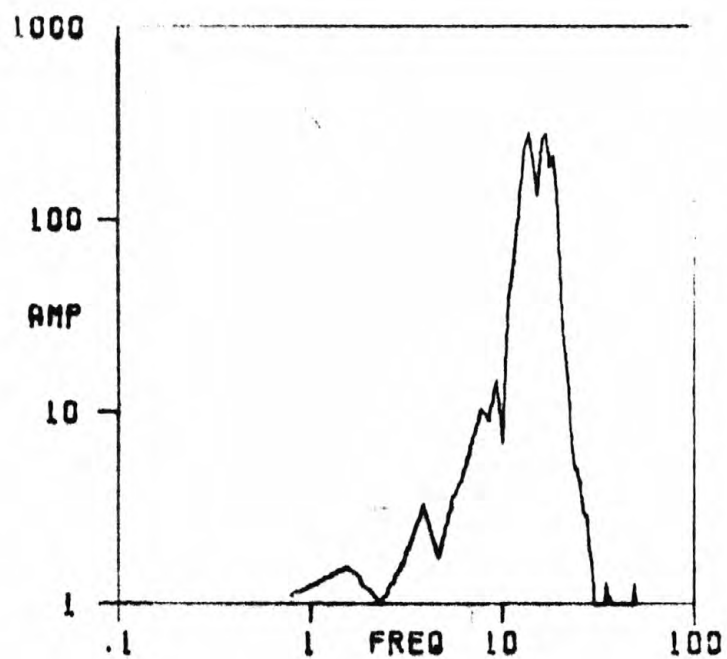
RECORDER LOCATION 307

DISTANCE FROM SHOT (KM) = -152.073

TSCALE (CM/SEC) = 10.0



59



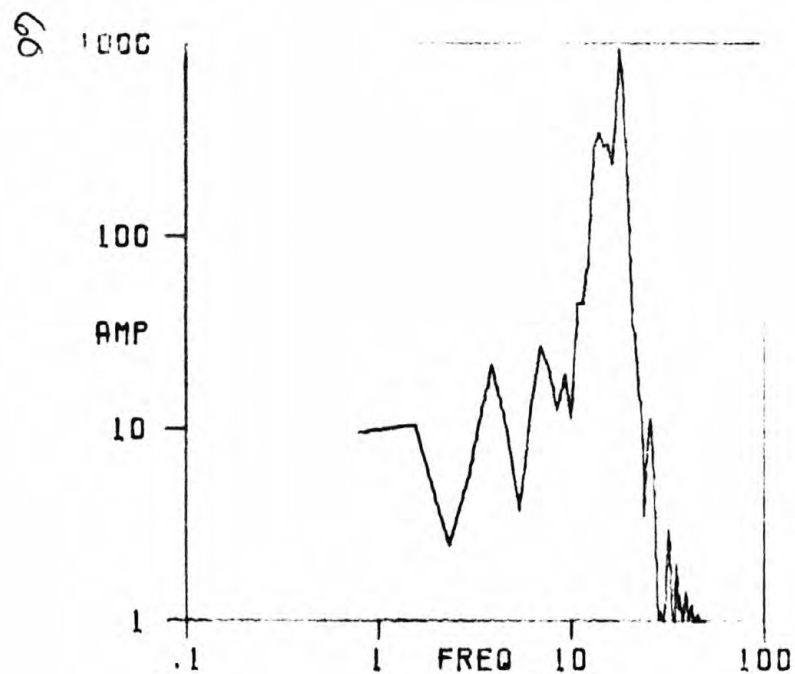
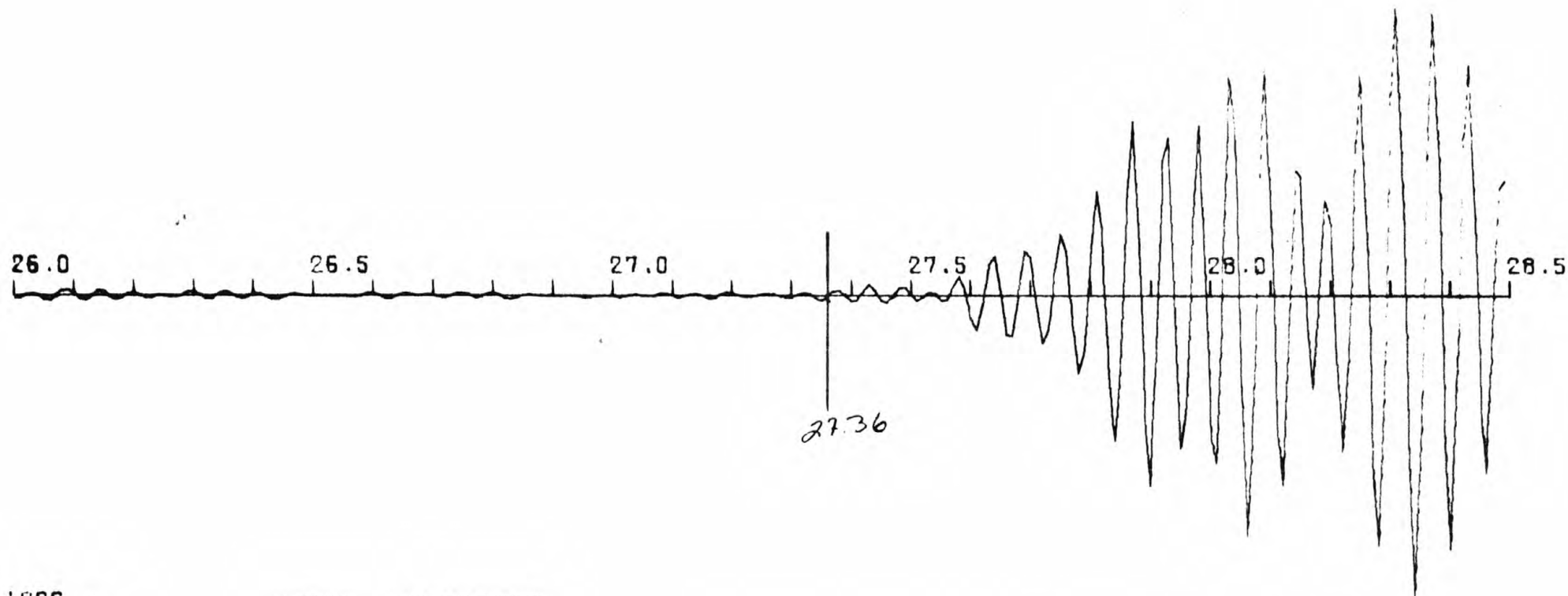
SAUDI REFRACTION PROFILE 15.20

SHOT POINT 1

RECORDER LOCATION 308

DISTANCE FROM SHOT (KM) = -155.888

TSCALE (CM/SEC) = 10.0



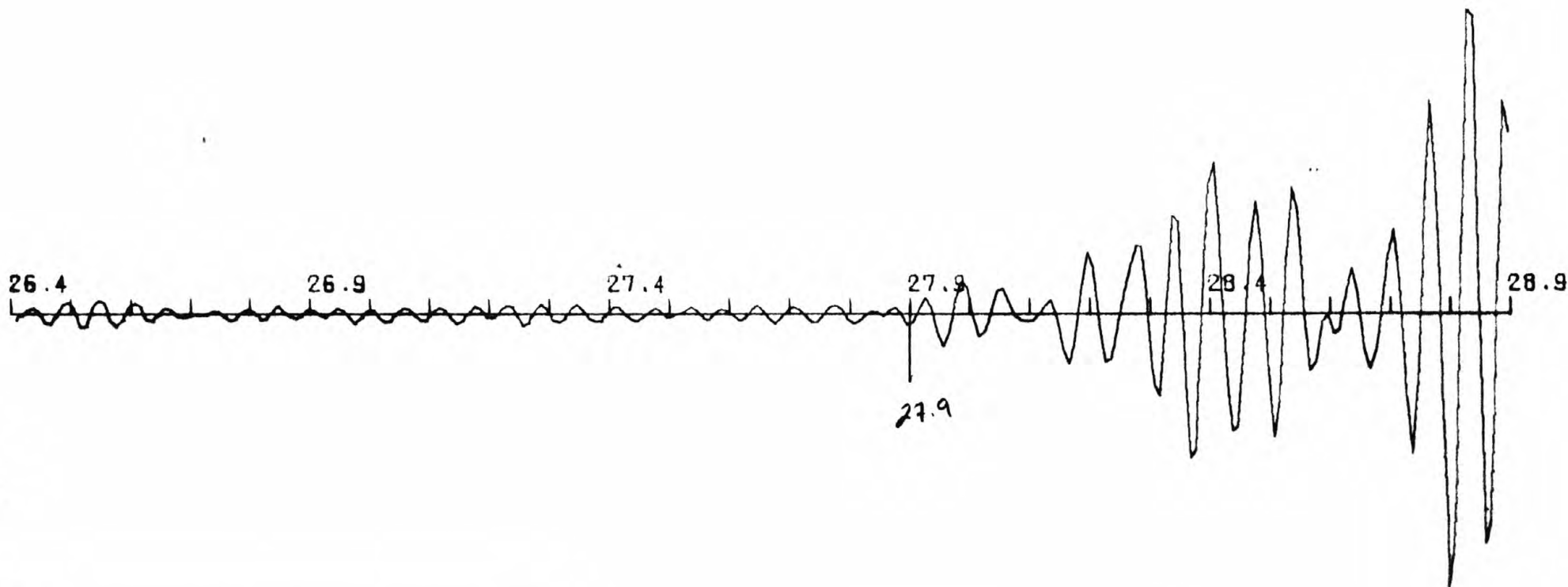
SAUDI REFRACTION PROFILE 15.20

SHOT POINT 1

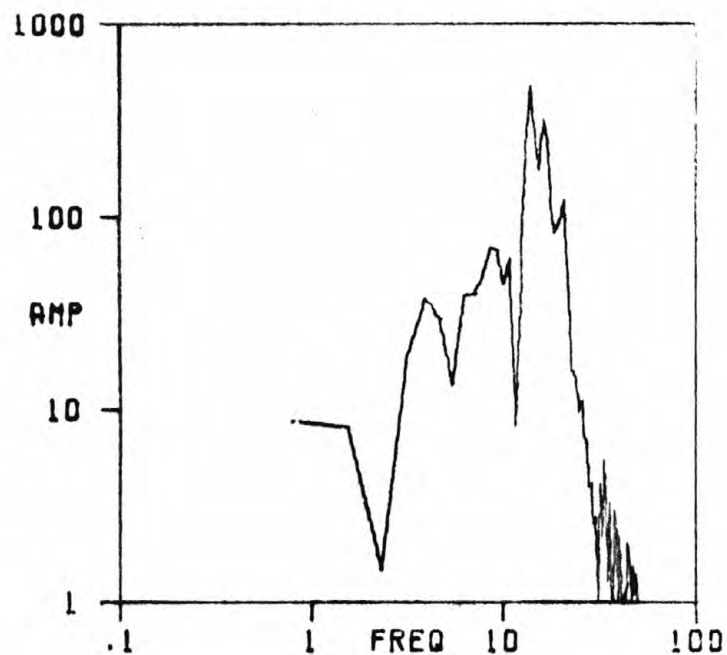
RECORDER LOCATION 311

DISTANCE FROM SHOT (KM) = -161.834

TSCALE (CM/SEC) = 10.0



19



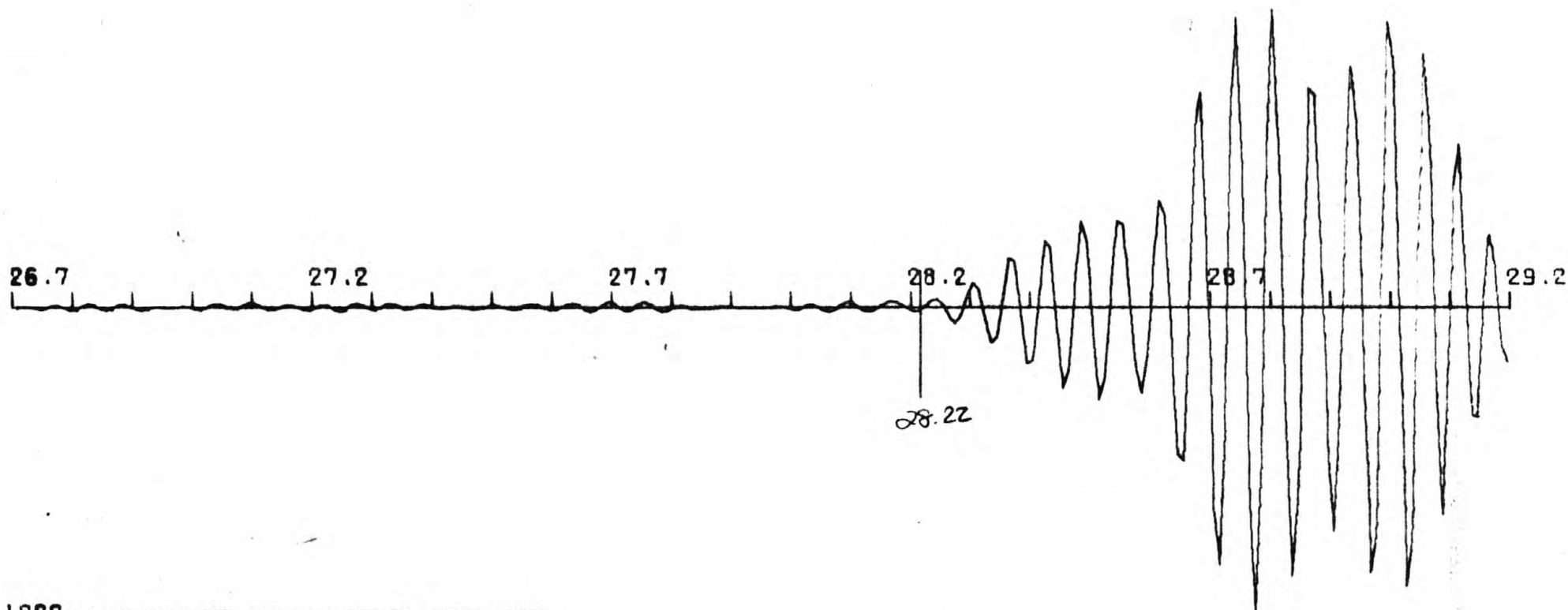
SAUDI REFRACTION PROFILE 15.20

SHOT POINT 1

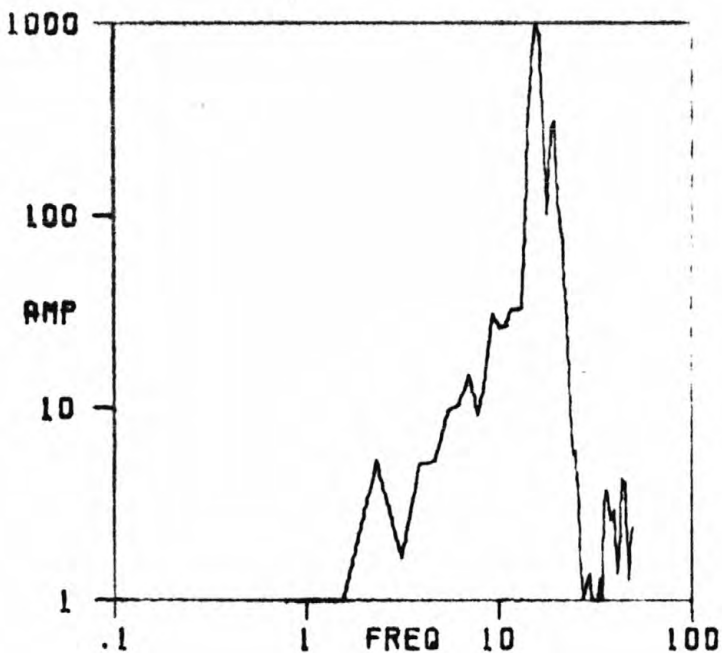
RECORDER LOCATION 312

DISTANCE FROM SHOT (KM) = -163.910

TSCALE (CM/SEC) = 10.0



62



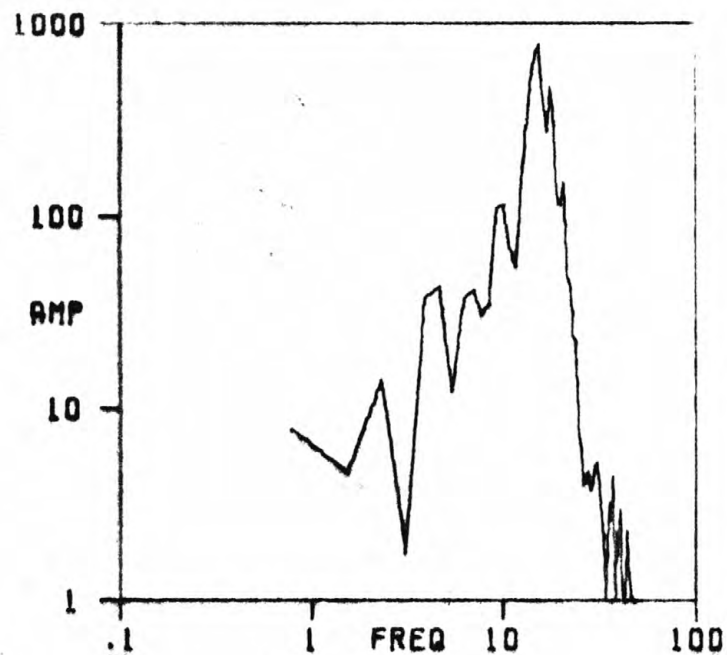
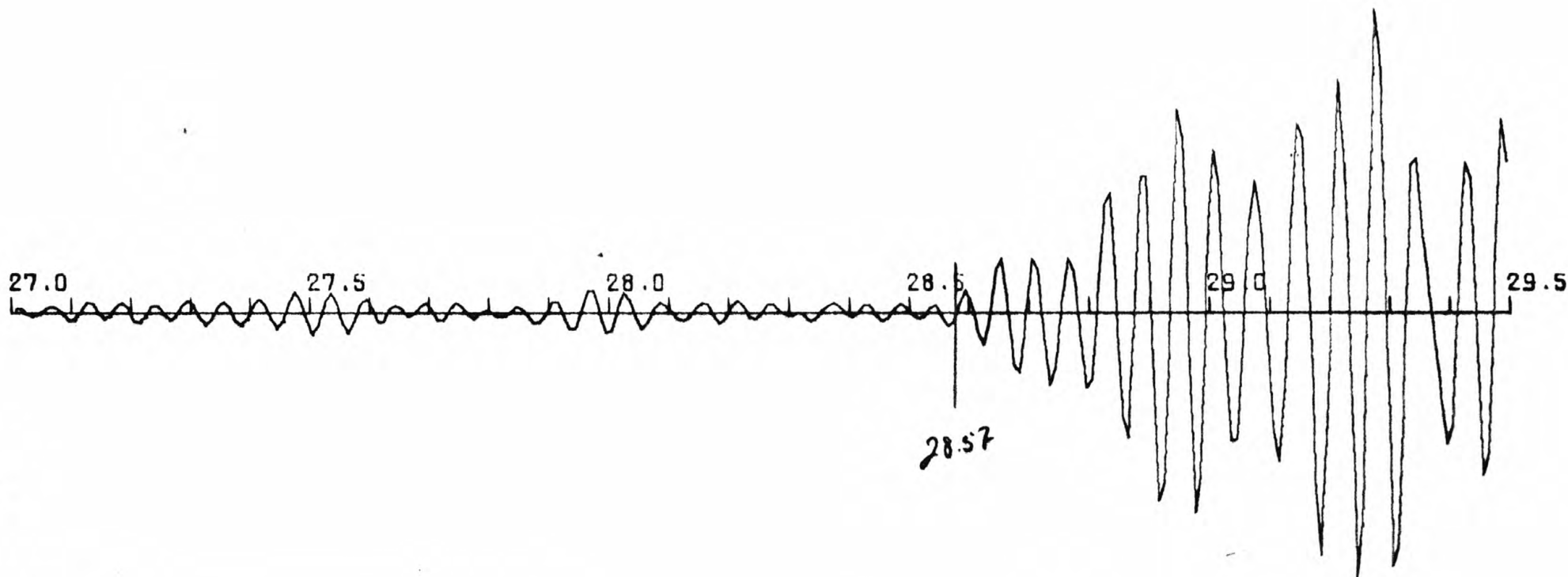
SAUDI REFRACTION PROFILE 15.20

SHOT POINT 1

RECORDER LOCATION 313

DISTANCE FROM SHOT (KM) = -165.943

TSCALE (CM/SEC) = 10.0



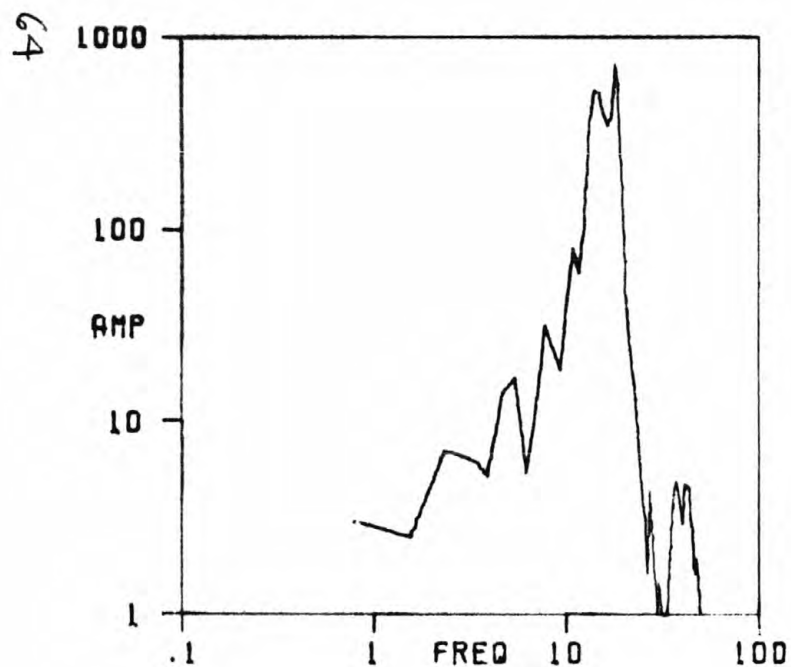
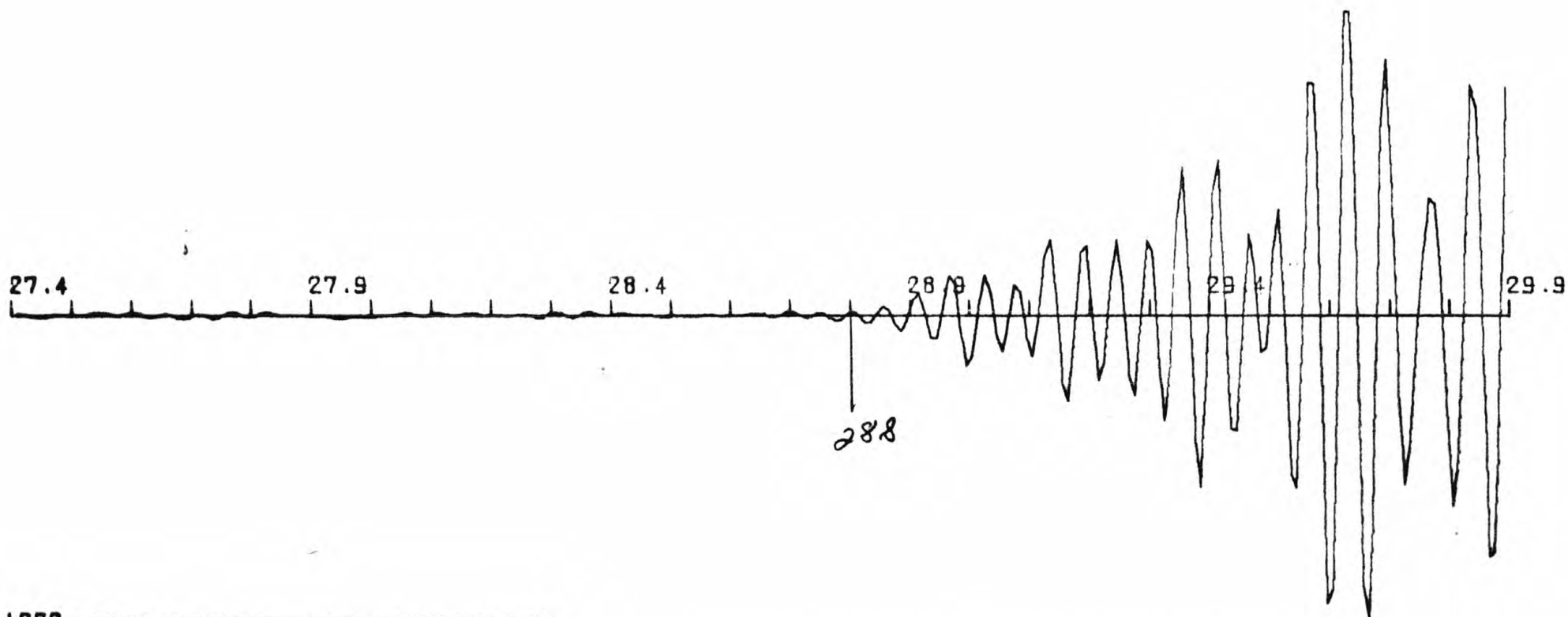
SAUDI REFRACTION PROFILE 15.20

SHOT POINT 1

RECORDER LOCATION 314

DISTANCE FROM SHOT (KM) = -167.929

TSKALE (CM/SEC) = 10.0



SAUDI REFRACTION PROFILE 15.20

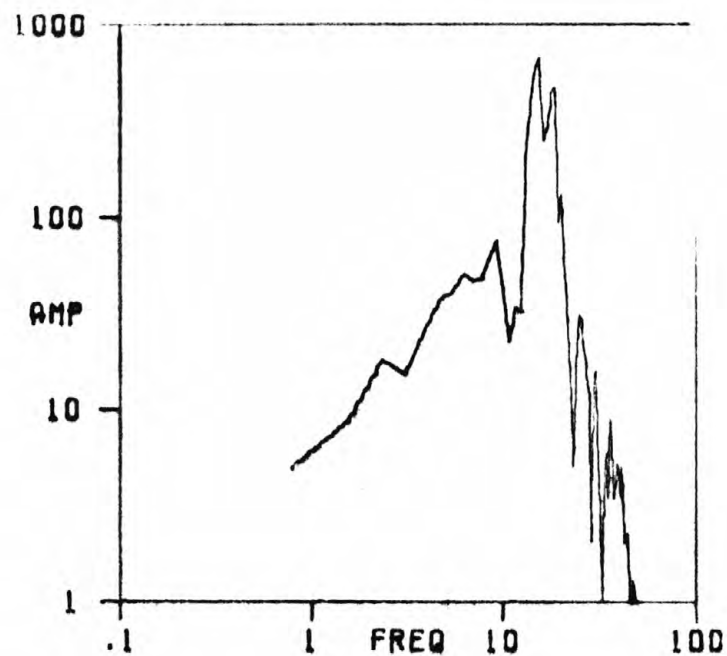
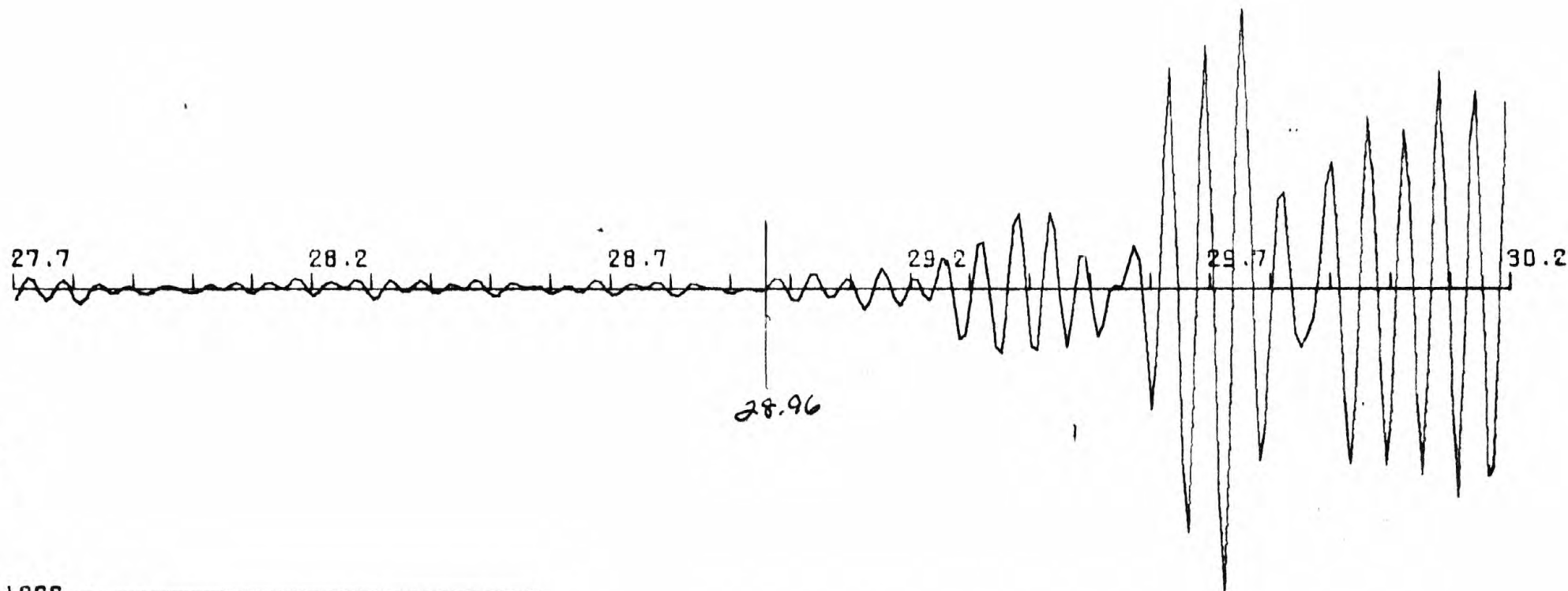
SHOT POINT 1

RECORDER LOCATION 315

DISTANCE FROM SHOT (KM) = -169.964

TSCALE (CM/SEC) = 10.0

59



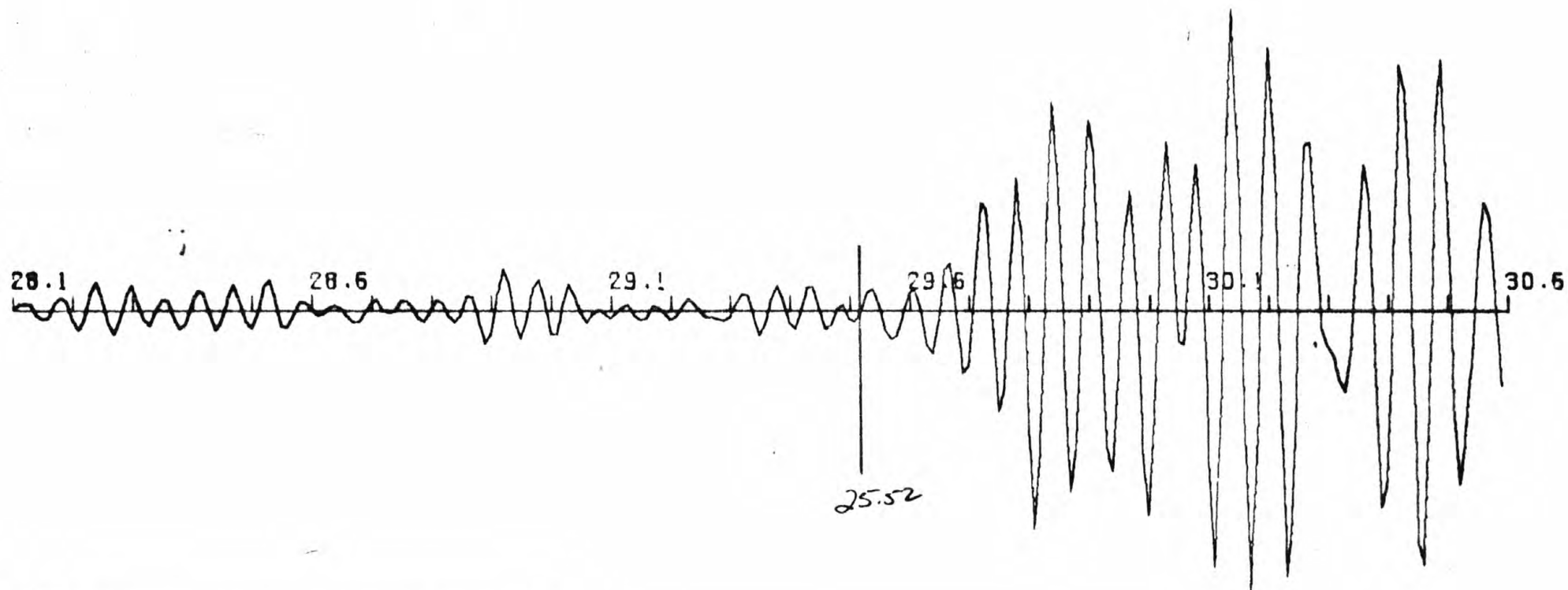
SAUDI REFRACTION PROFILE 15.20

SHOT POINT 1

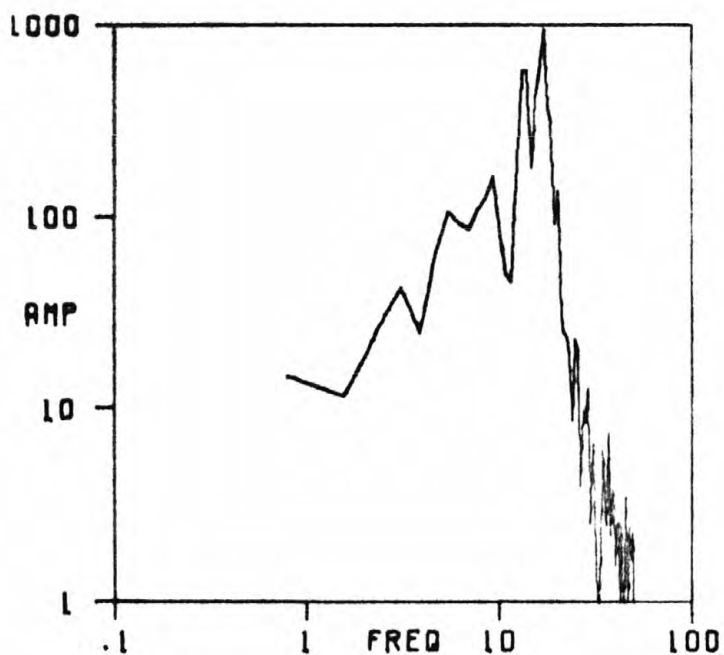
RECORDER LOCATION 316

DISTANCE FROM SHOT (KM) = -172.049

TSCALE (CM/SEC) = 10.0



99



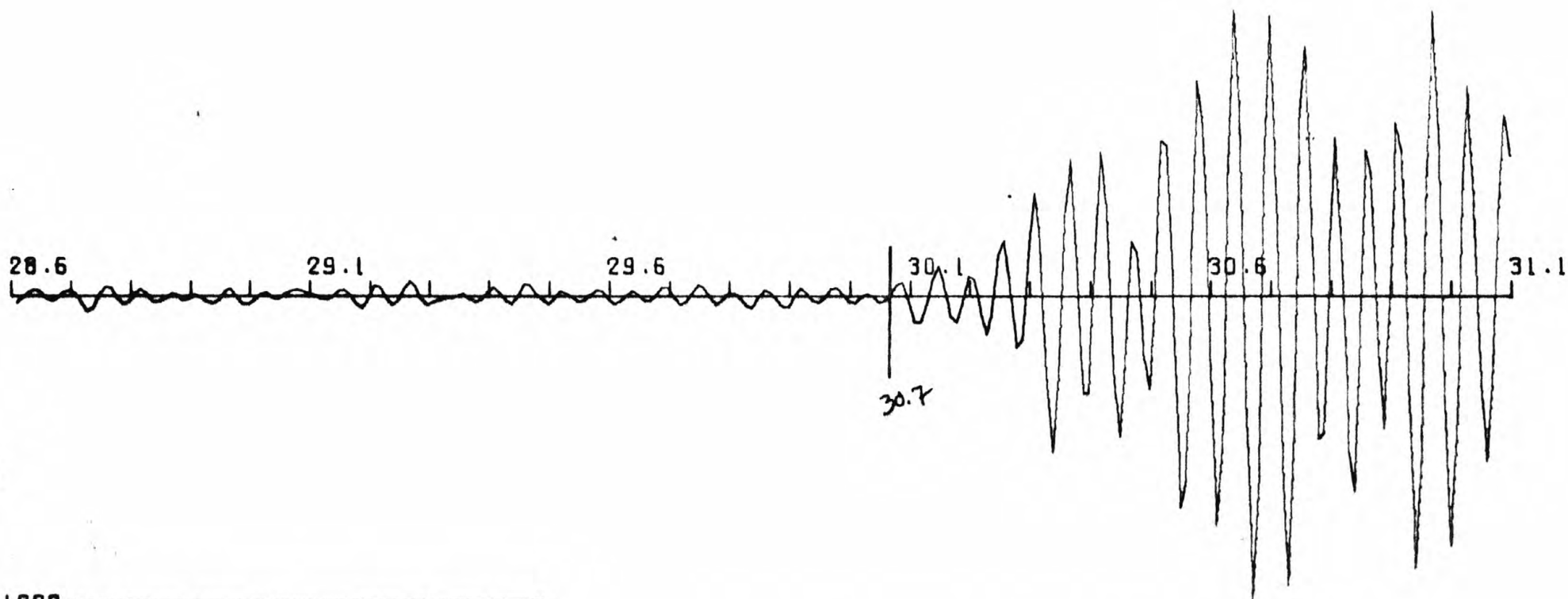
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 1

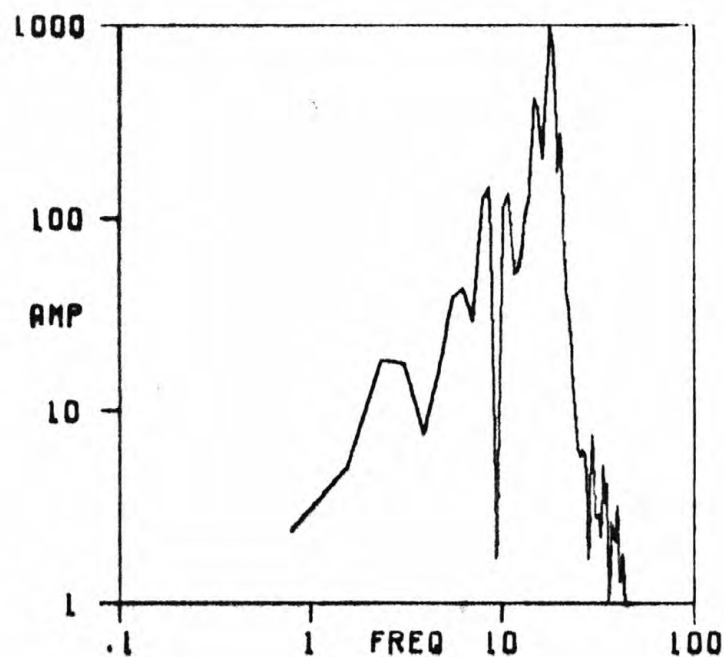
RECORDER LOCATION 317

DISTANCE FROM SHOT (KM) = -174.064

TSCALE (CM/SEC) = 10.0



67



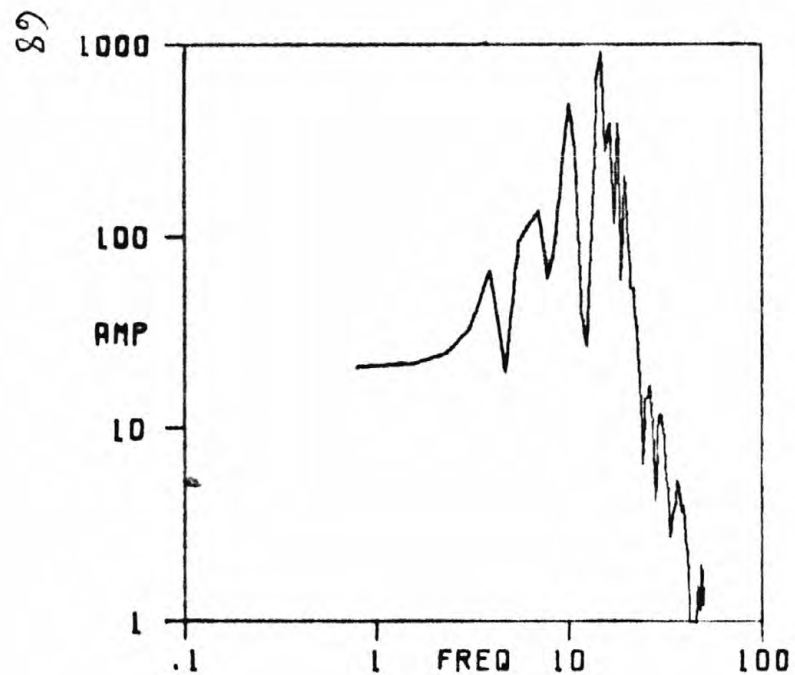
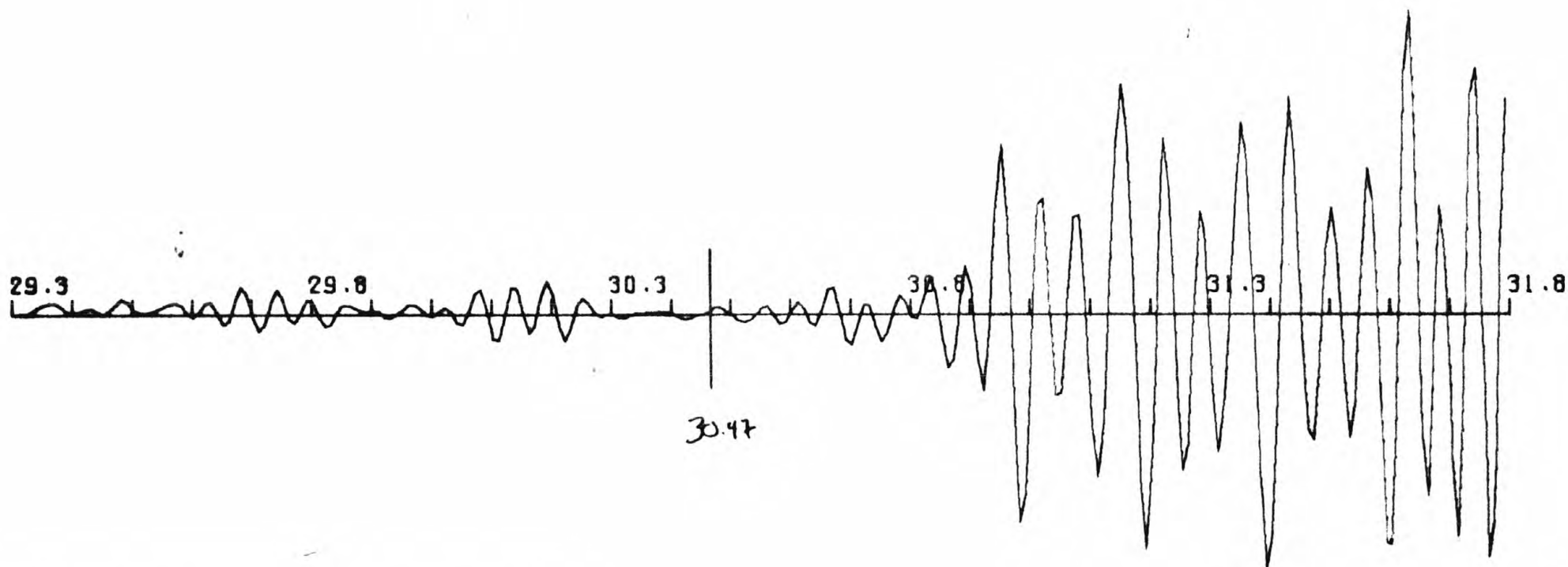
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 1

RECORDER LOCATION 319

DISTANCE FROM SHOT (KM) = -177.596

TSCALE (CM/SEC) = 10.0



SAUDI REFRACTION PROFILE 15.20 BP

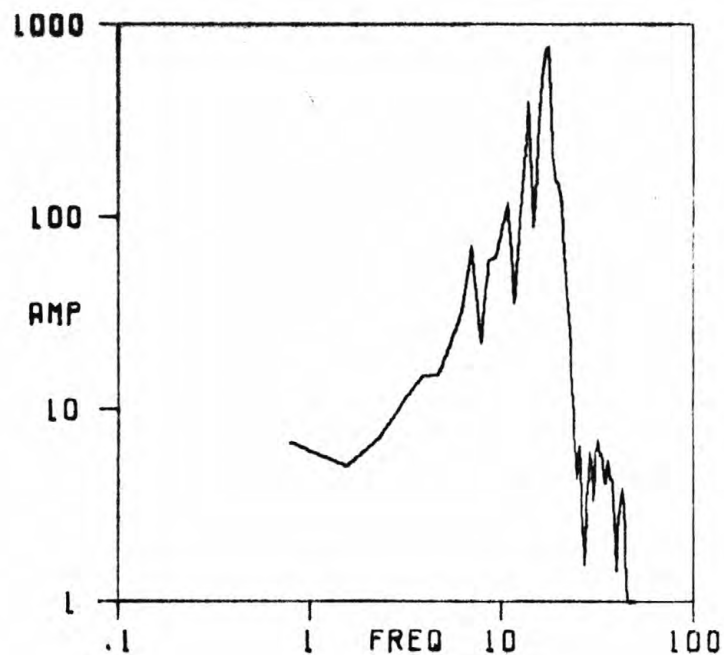
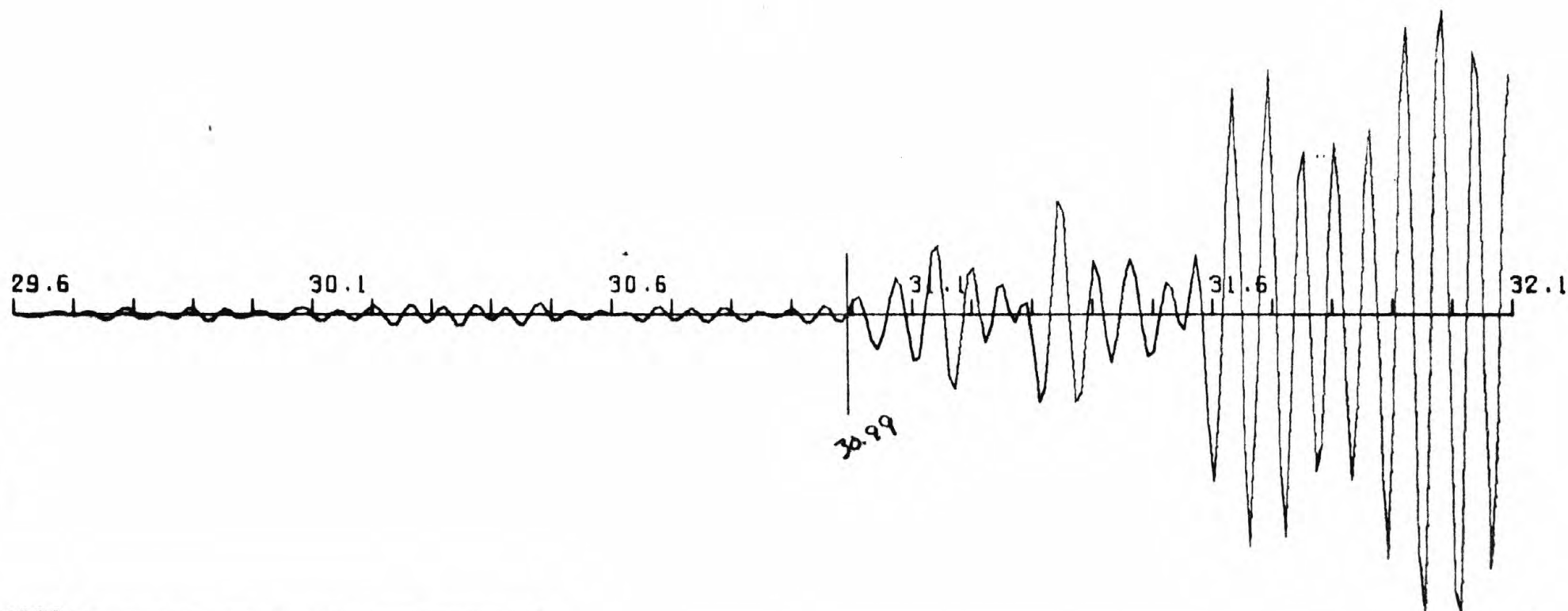
SHOT POINT 1

RECORDER LOCATION 321

DISTANCE FROM SHOT (KM) = -181.588

TSCALE (CM/SEC) = 10.0

69



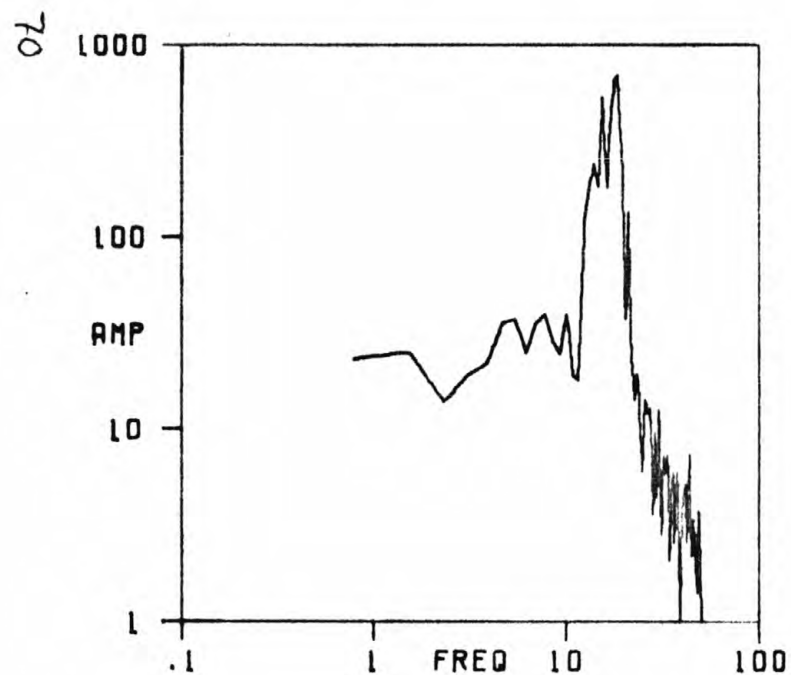
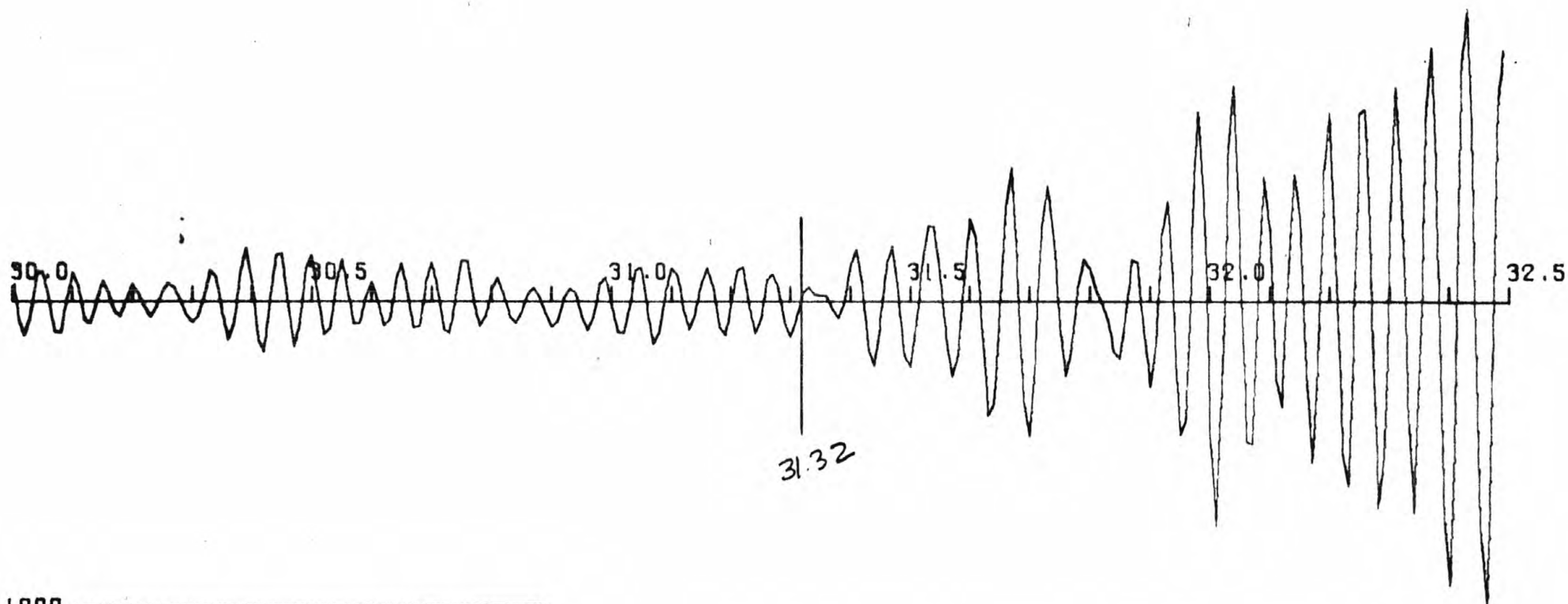
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 1

RECORDER LOCATION 322

DISTANCE FROM SHOT (KM) = -183.567

TSCALE (CM/SEC) = 10.0



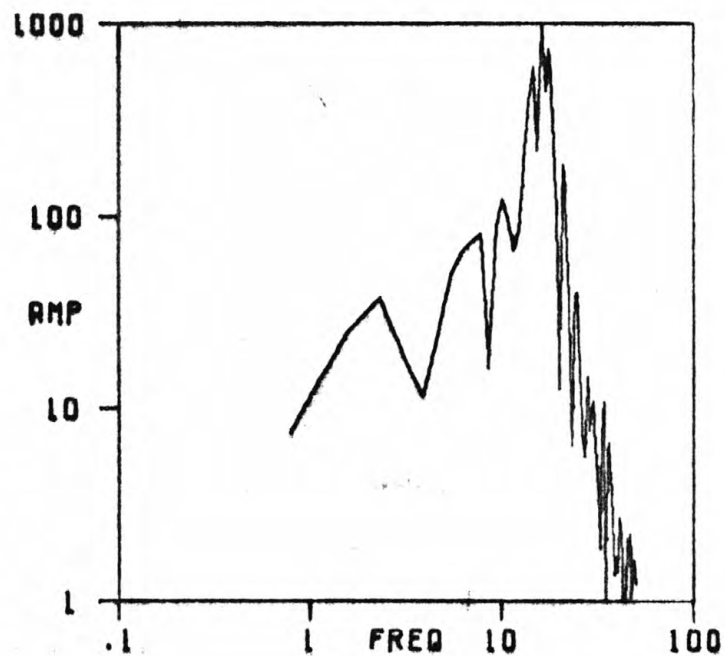
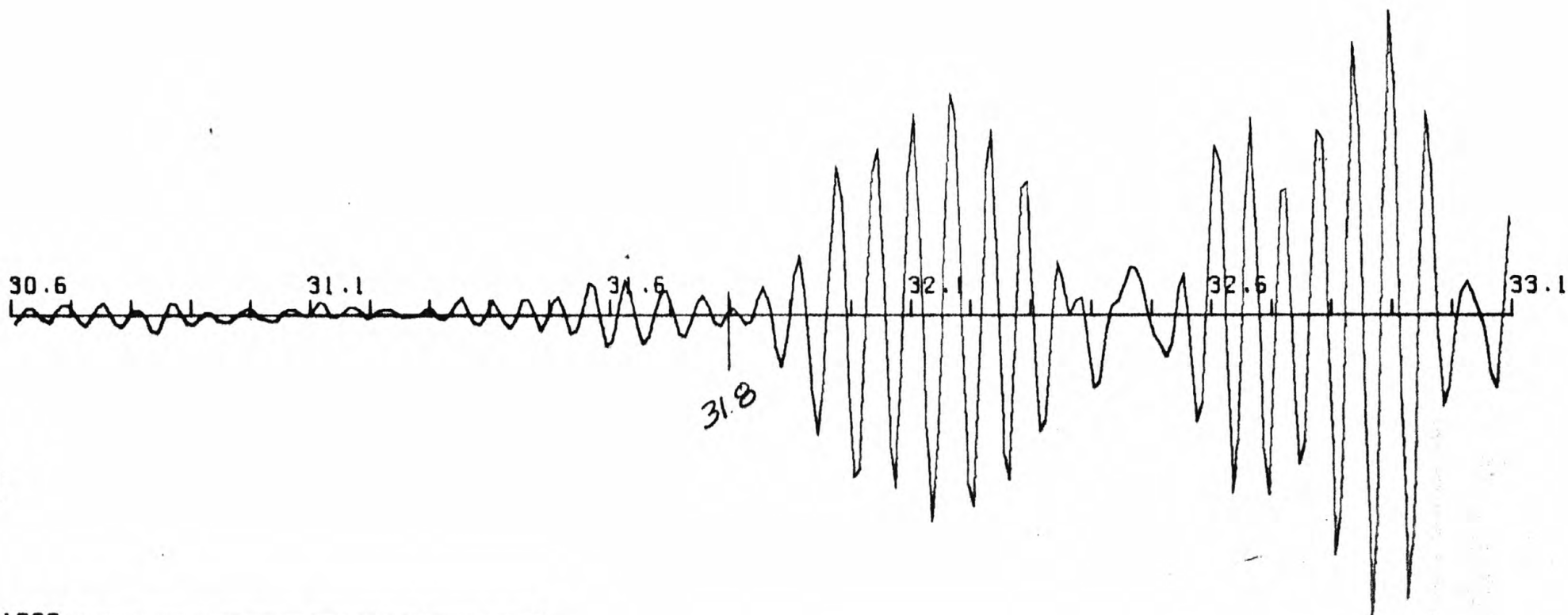
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 1

RECORDER LOCATION 323

DISTANCE FROM SHOT (KM) = -185.415

TSCALE (CM/SEC) = 10.0



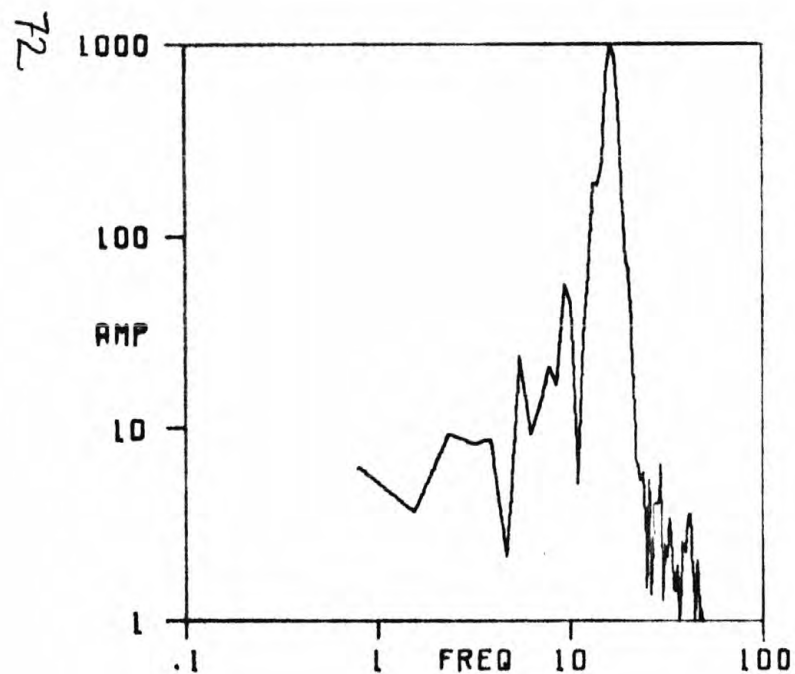
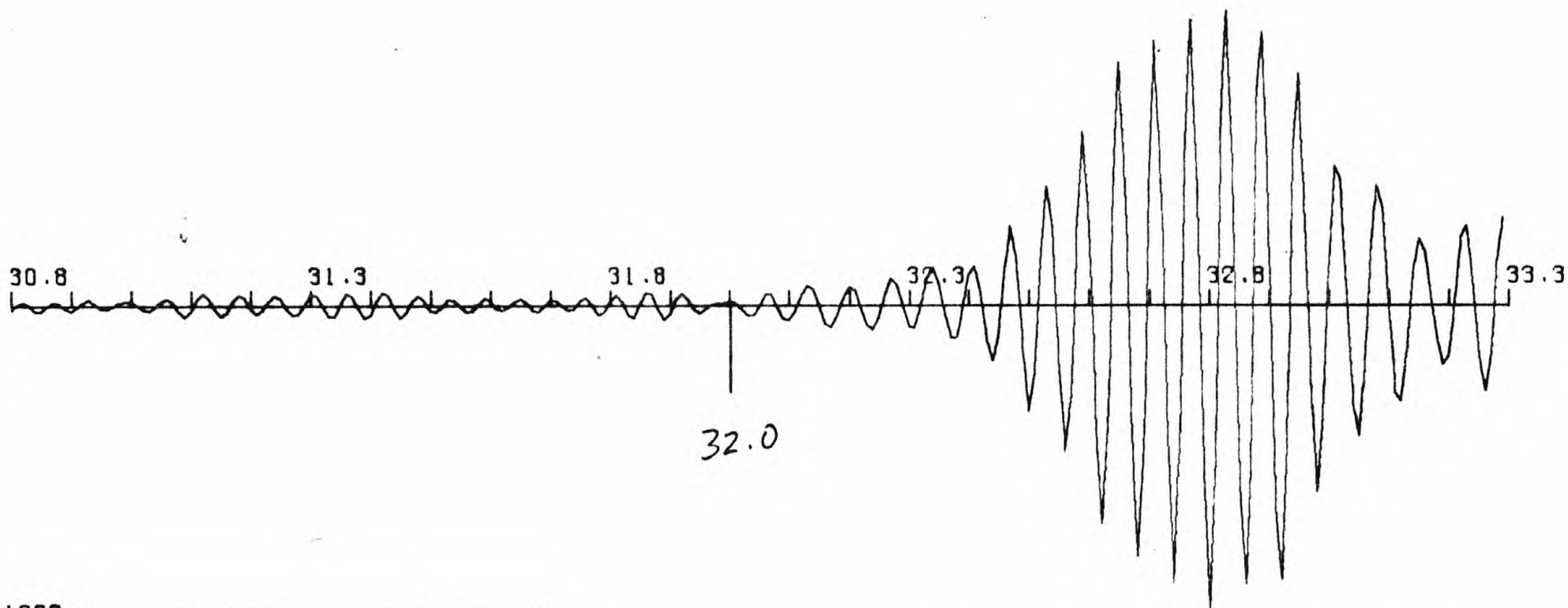
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 1

RECORDER LOCATION 325

DISTANCE FROM SHOT (KM) = -189.281

TSCALE (CM/SEC) = 10.0



SAUDI REFRACTION PROFILE 15.20 BP

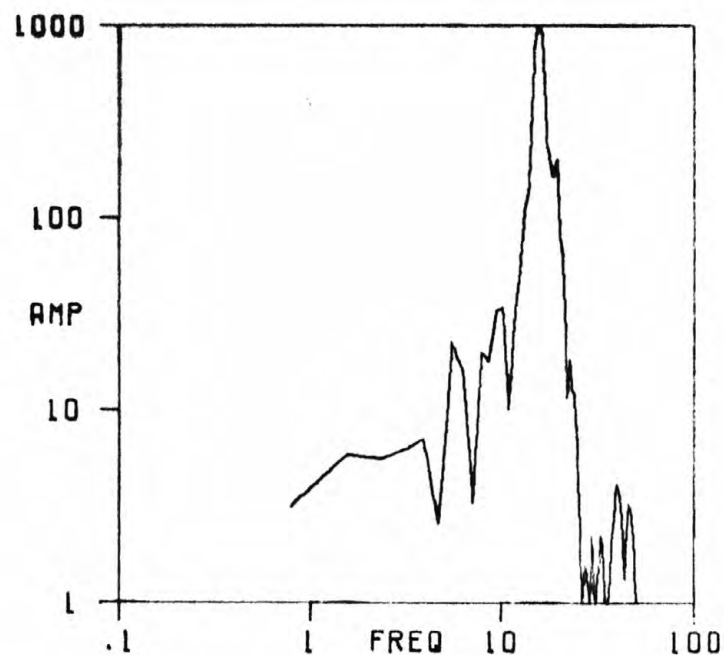
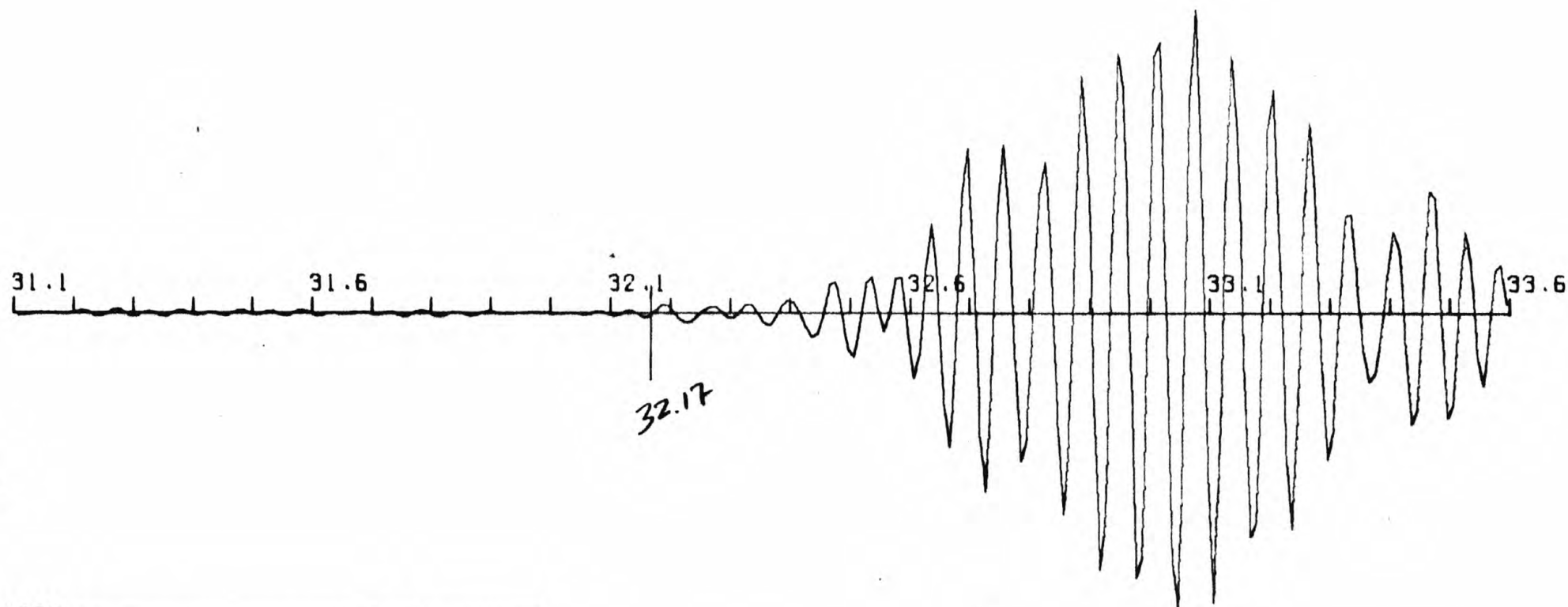
SHOT POINT 1

RECORDER LOCATION 326

DISTANCE FROM SHOT (KM) = -190.747

TSCALE (CM/SEC) = 10.0

73



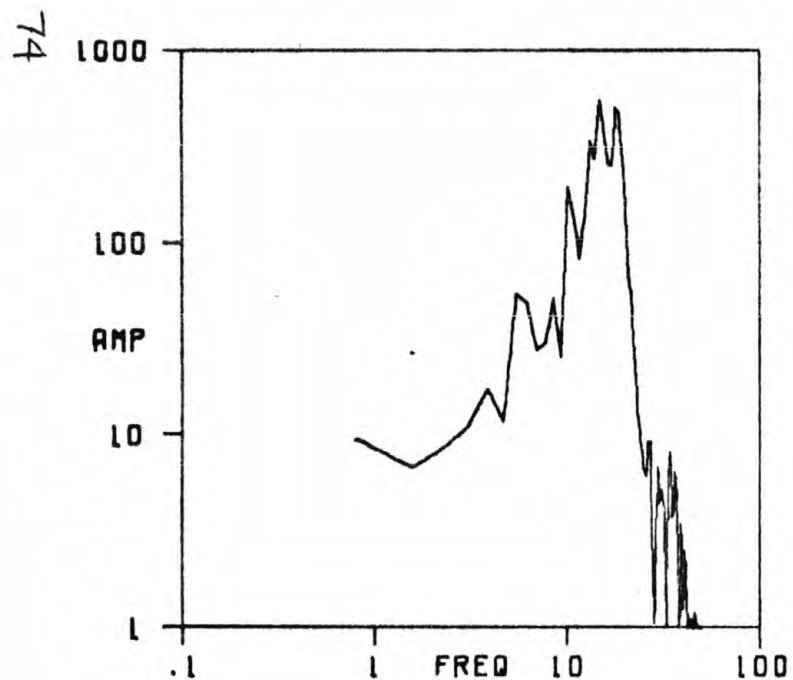
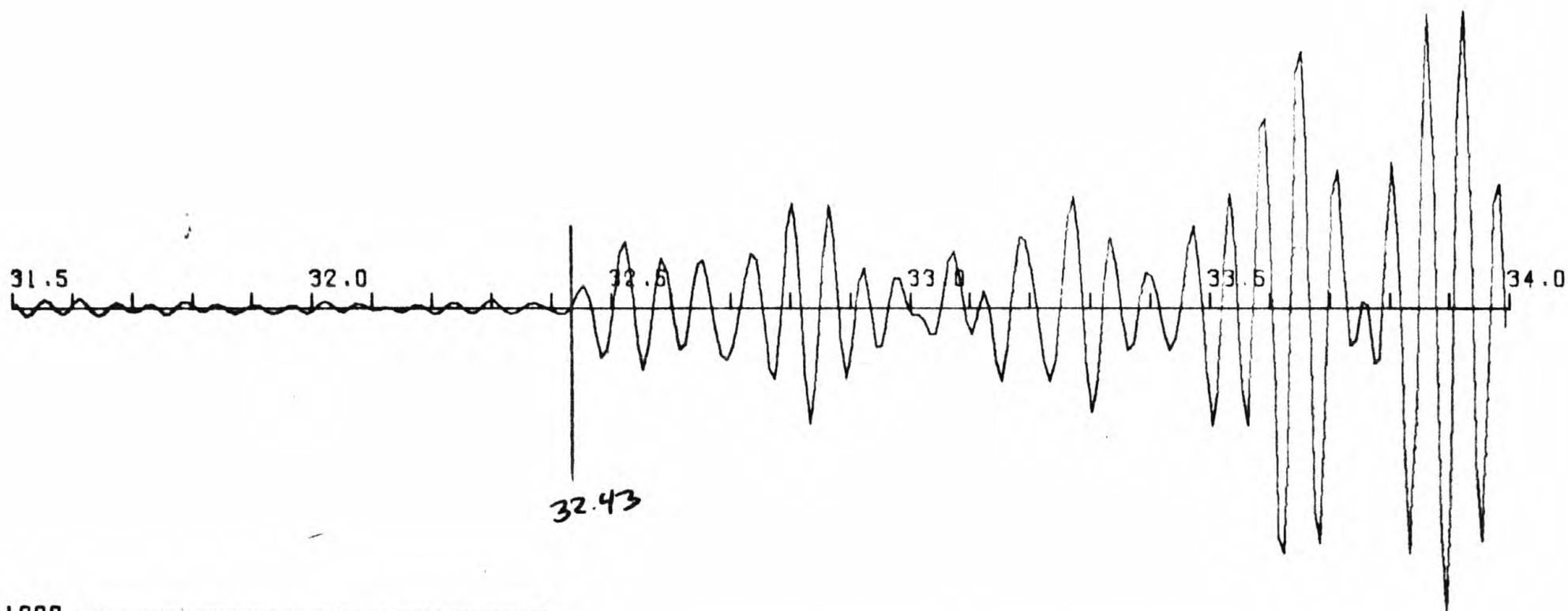
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 1

RECORDER LOCATION 327

DISTANCE FROM SHOT (KM) = -192.586

TSCALE (CM/SEC) = 10.0



SAUDI REFRACTION PROFILE 15.20 BP

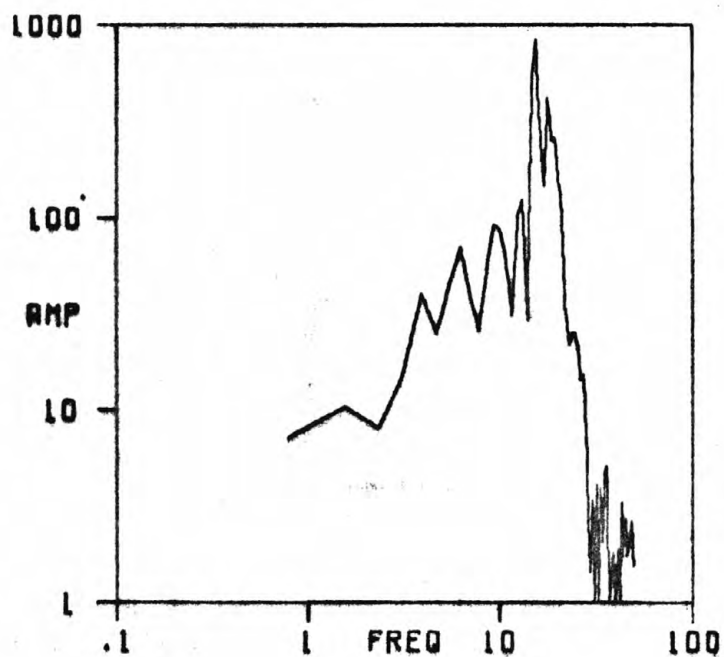
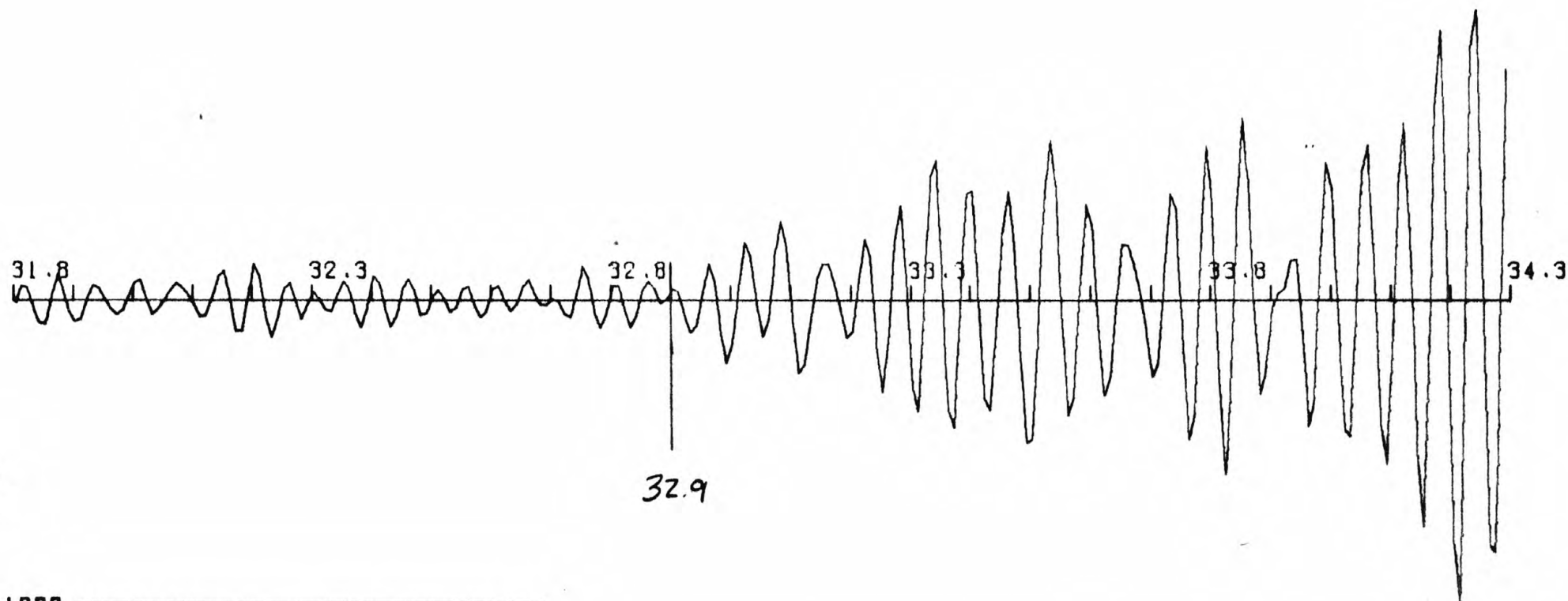
SHOT POINT 1

RECORDER LOCATION 328

DISTANCE FROM SHOT (KM) = -194.552

TSCALE (CM/SEC) = 10.0

75



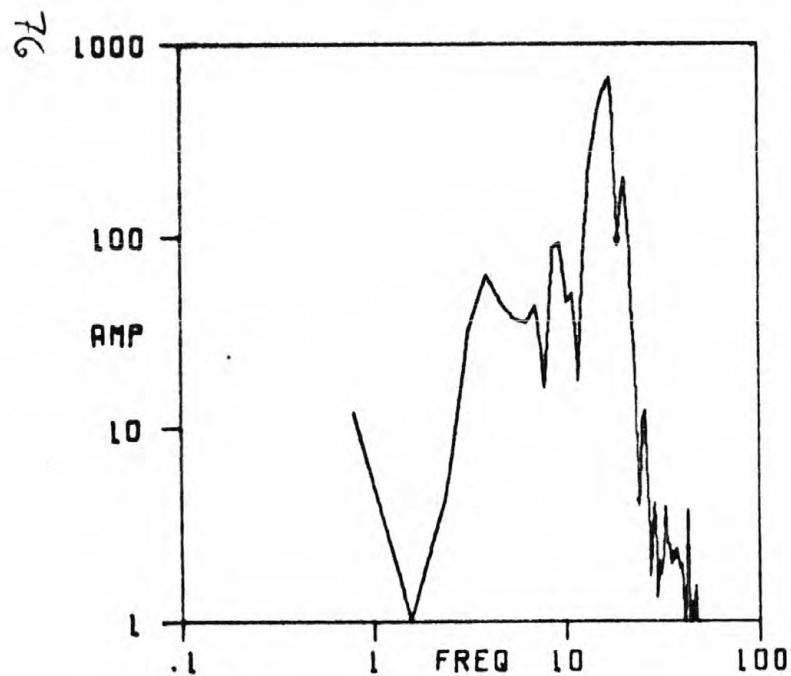
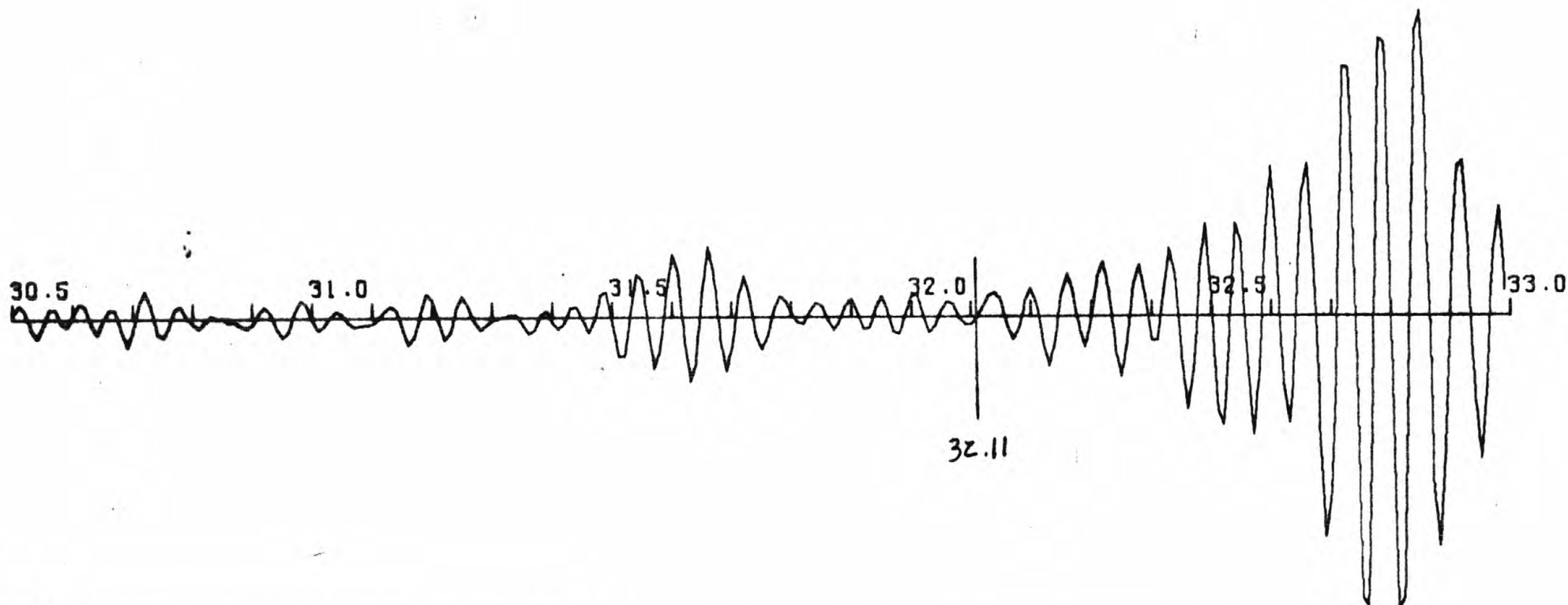
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 1

RECORDER LOCATION 329

DISTANCE FROM SHOT (KM) = -196.650

TSCALE (CM/SEC) = 10.0



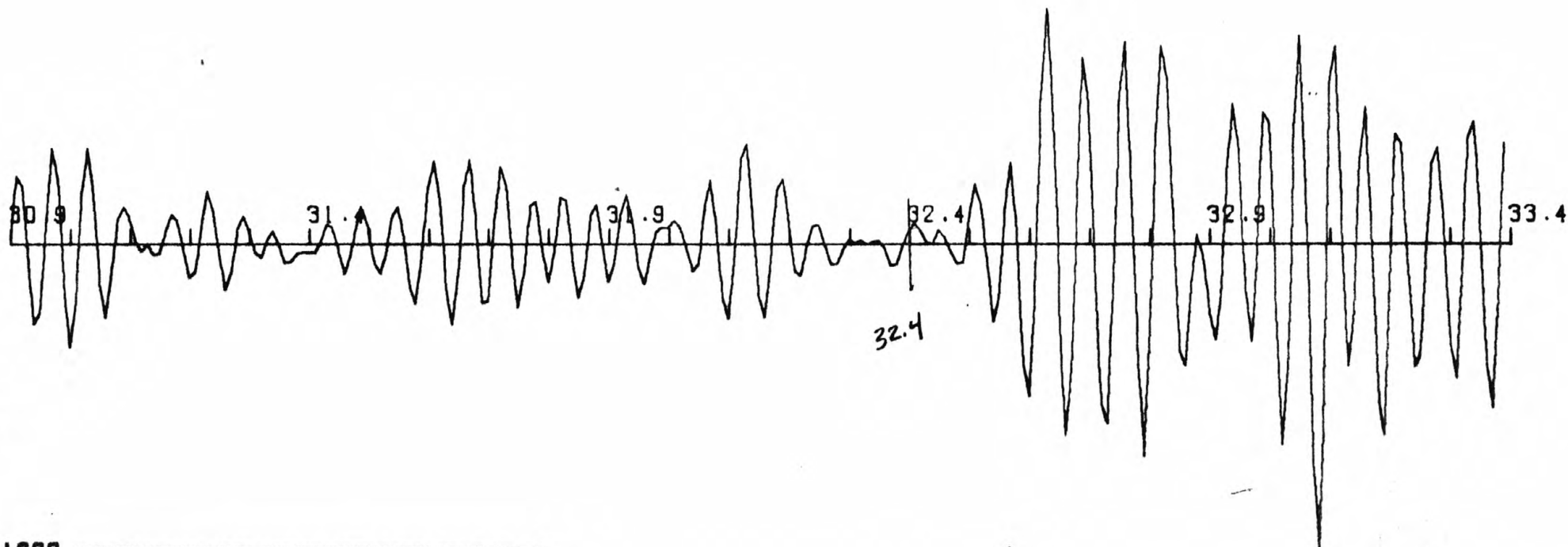
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 1

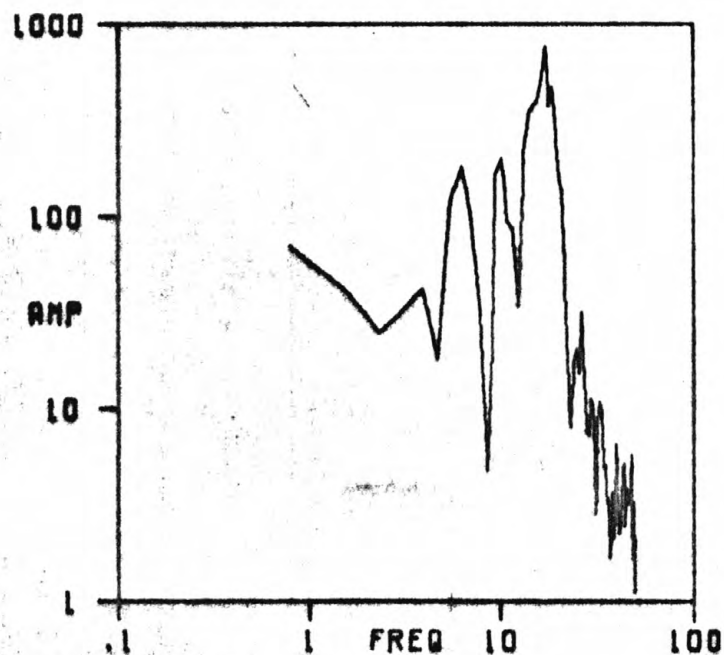
RECORDER LOCATION 330

DISTANCE FROM SHOT (KM) = -200.477

TSCALE (CM/SEC) = 10.0



47



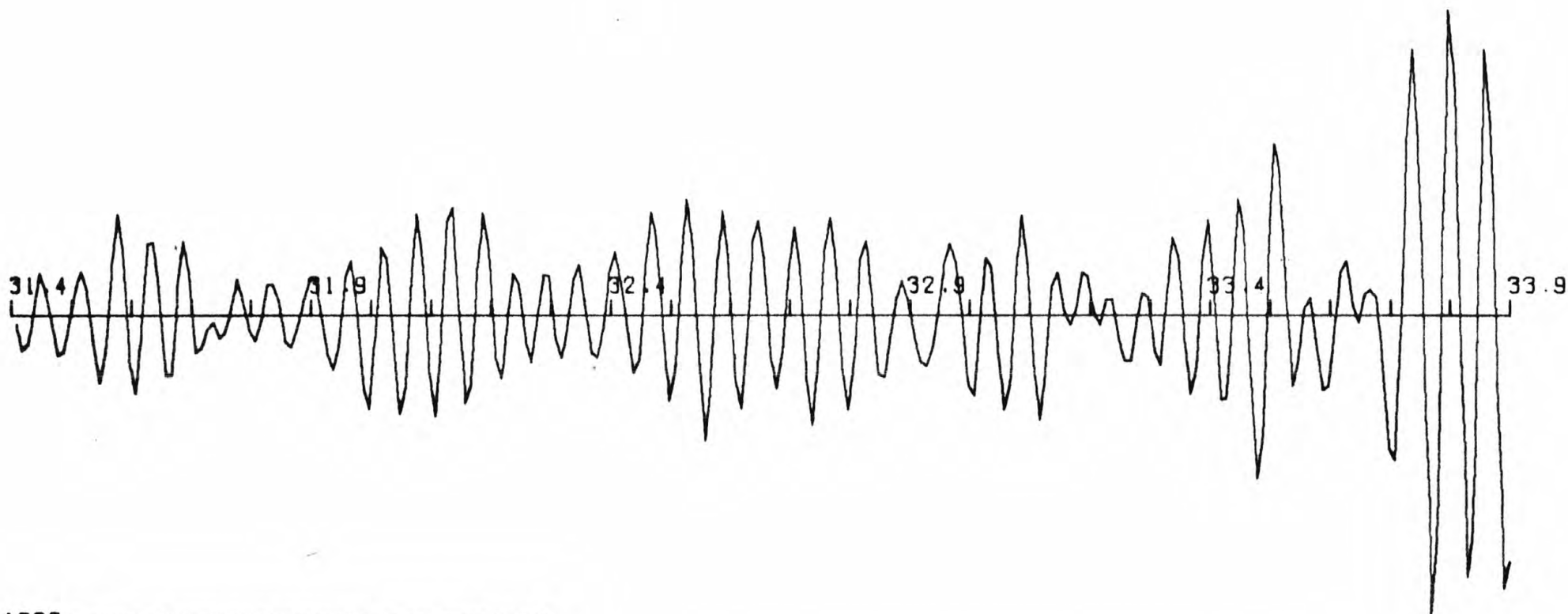
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 1

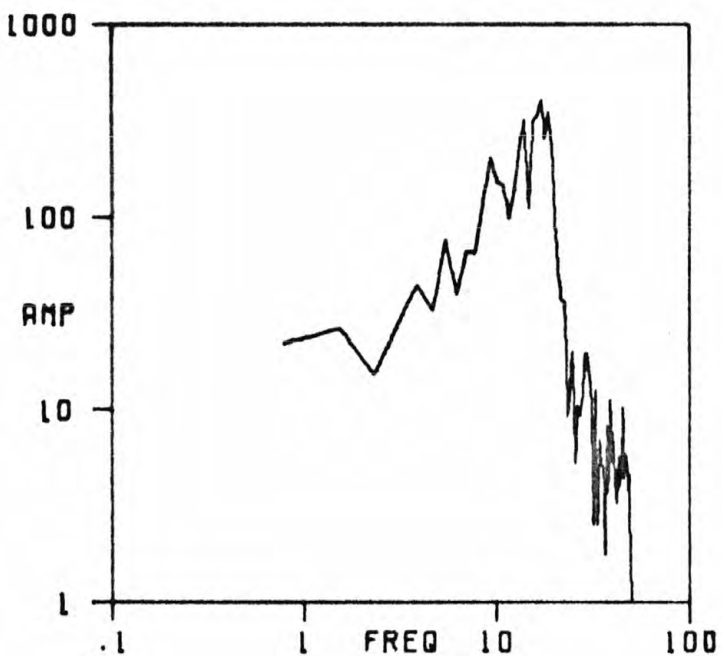
RECORDER LOCATION 332

DISTANCE FROM SHOT (KM) = -203.283

TSCALE (CM/SEC) = 10.0



87



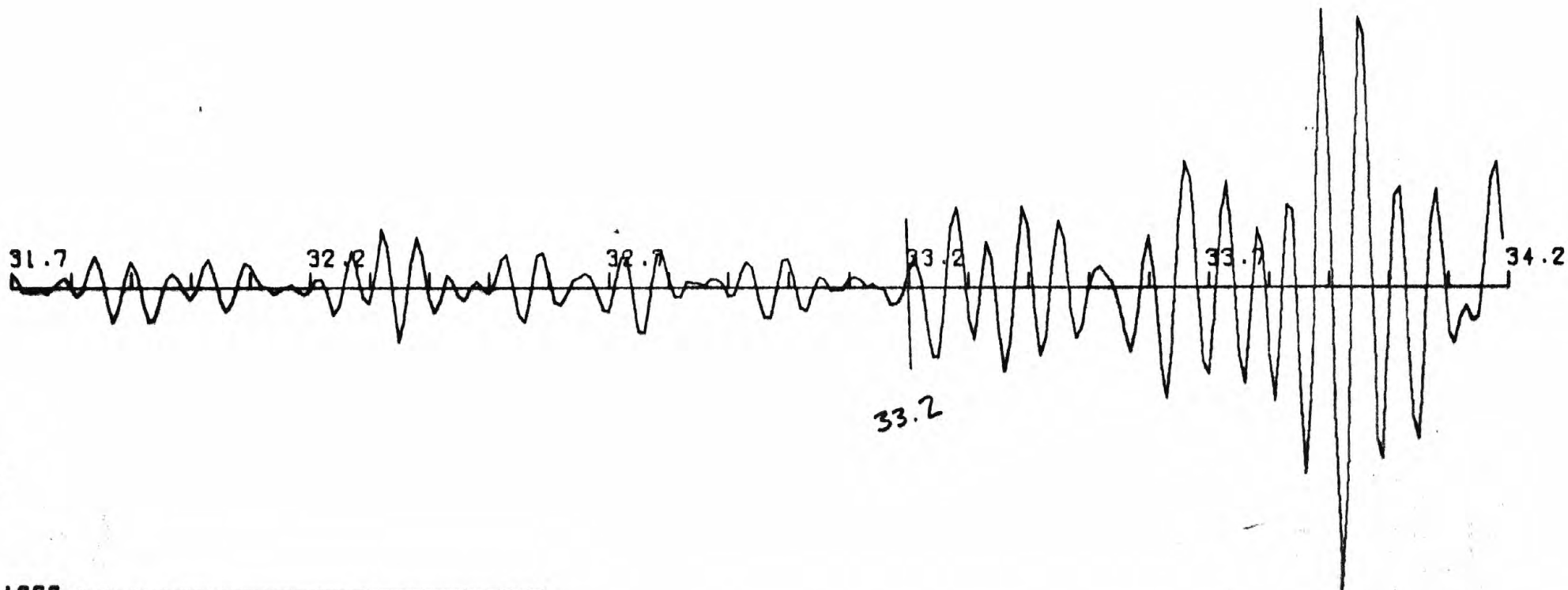
SAUDI REFRACTION PROFILE 15:20 BP

SHOT POINT 1

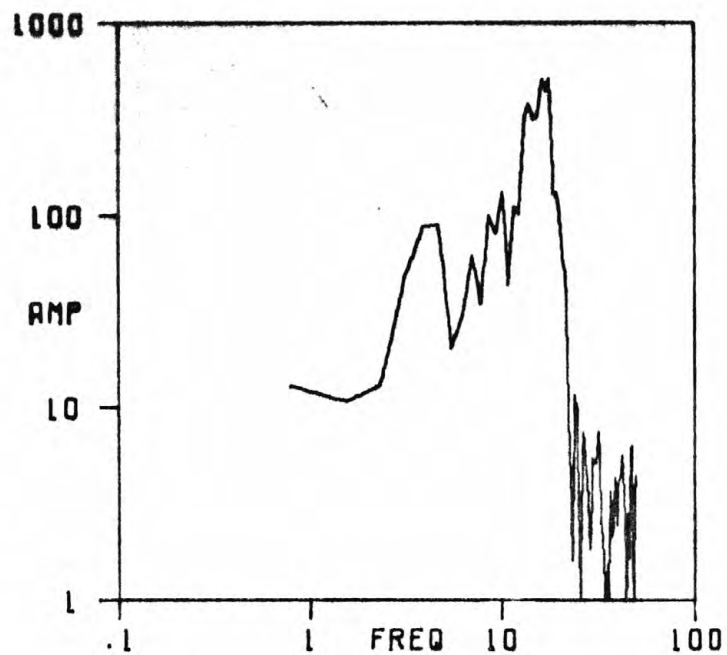
RECORDER LOCATION 334

DISTANCE FROM SHOT (KM) = -206.036

TSCALE (CM/SEC) = 10.0



67



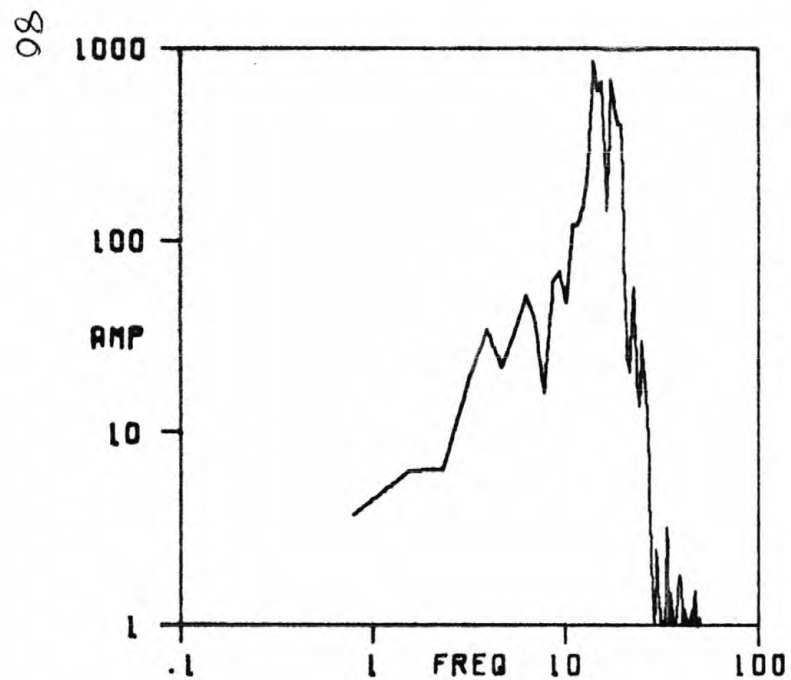
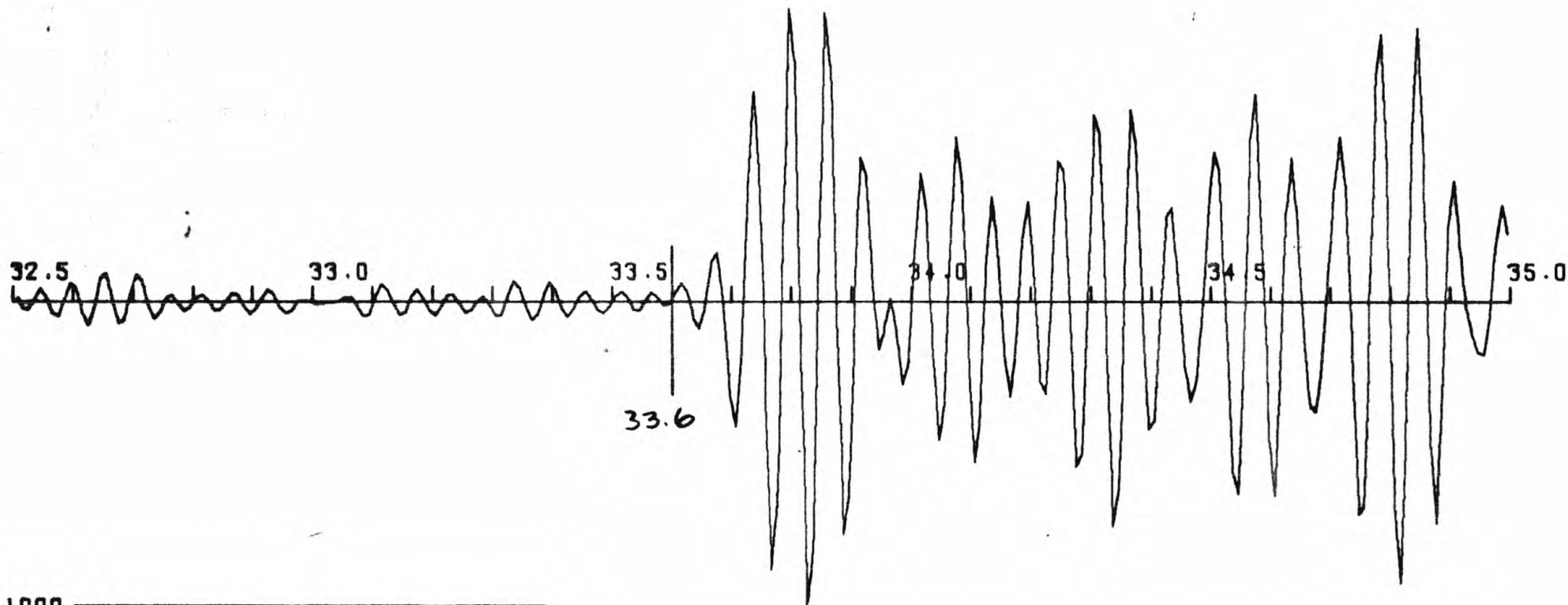
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 1

RECORDER LOCATION 335

DISTANCE FROM SHOT (KM) = -207.969

TS SCALE (CM/SEC) = 10.0



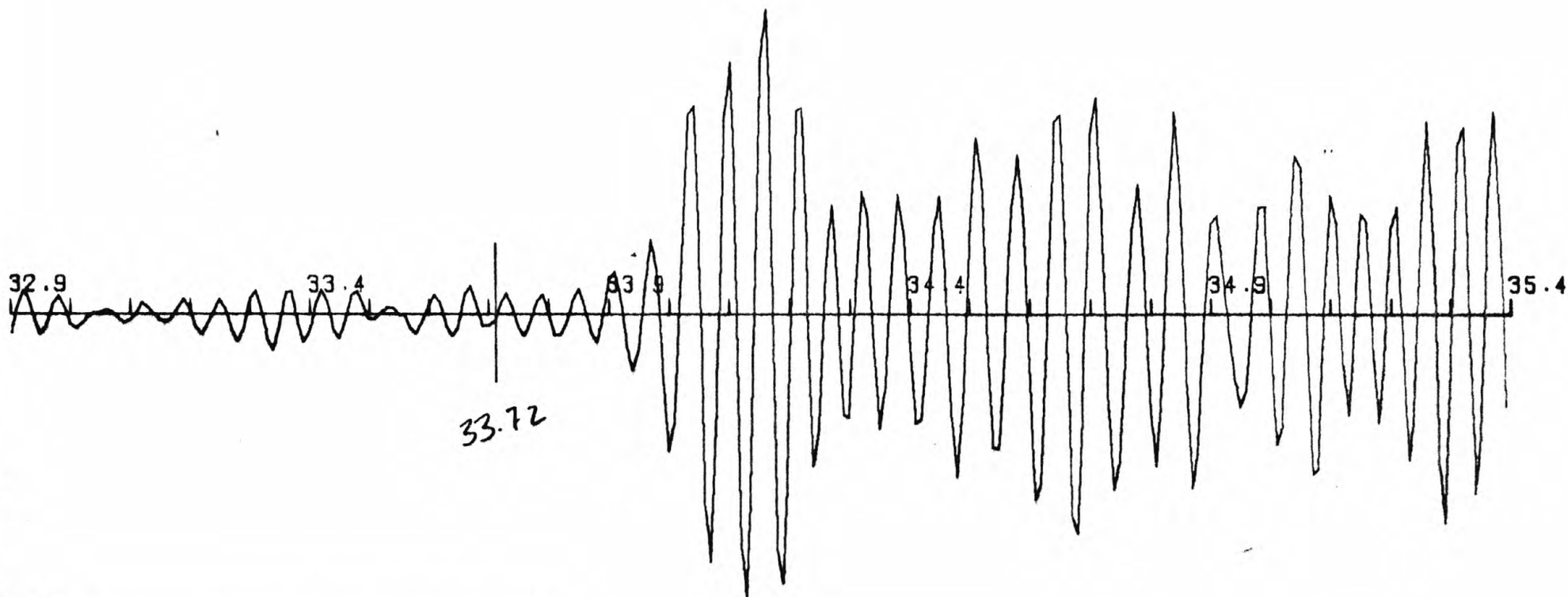
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 1

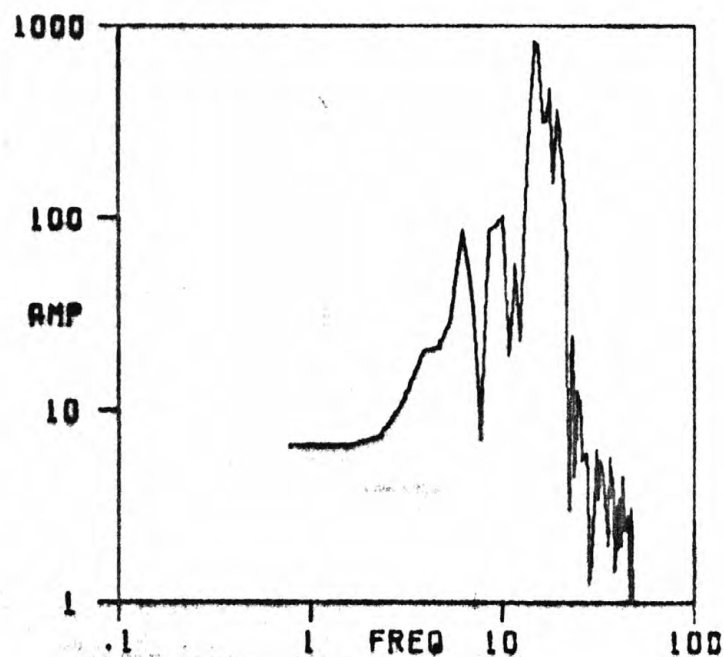
RECORDER LOCATION 337

DISTANCE FROM SHOT (KM) = -212.567

TSCALE (CM/SEC) = 10.0



81



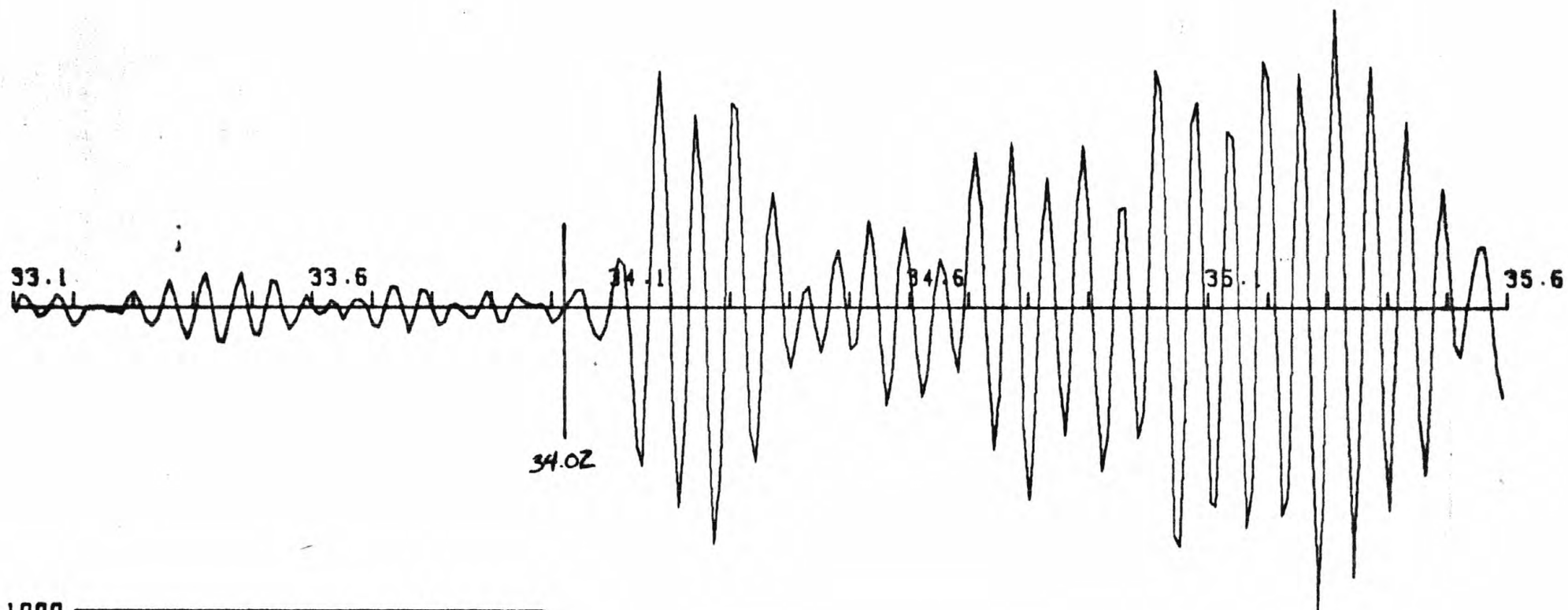
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 1

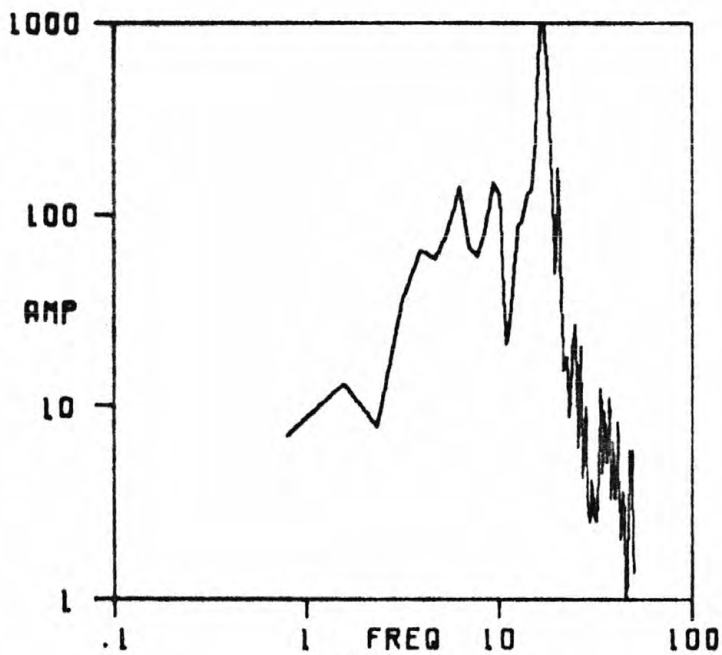
RECORDER LOCATION 338

DISTANCE FROM SHOT (KM) = -214.930

TSCALE (CM/SEC) = 10.0



82



SAUDI REFRACTION PROFILE 15.20 BP

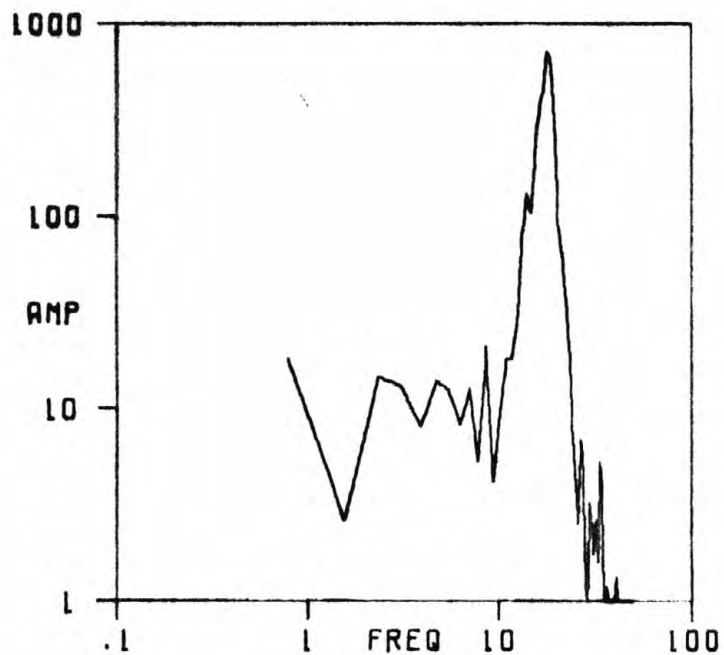
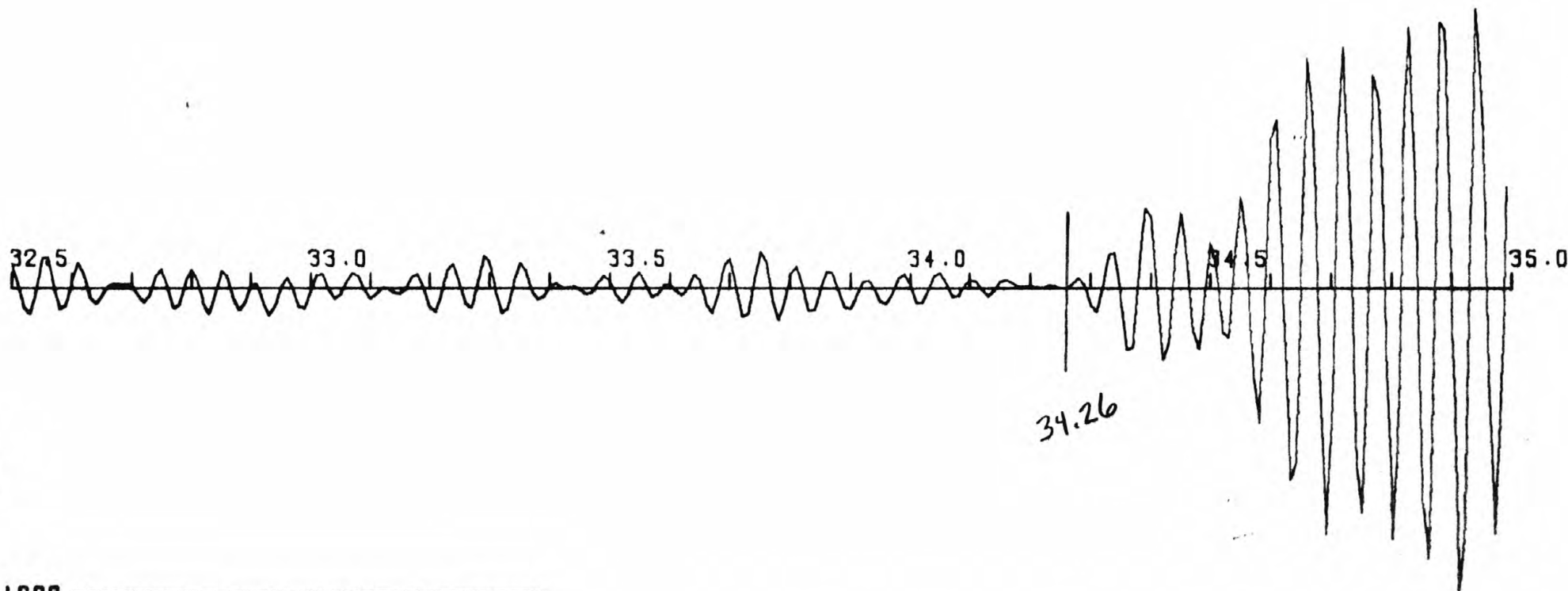
SHOT POINT 1

RECORDER LOCATION 339

DISTANCE FROM SHOT (KM) = -216.324

TSCALE (CM/SEC) = 10.0

83



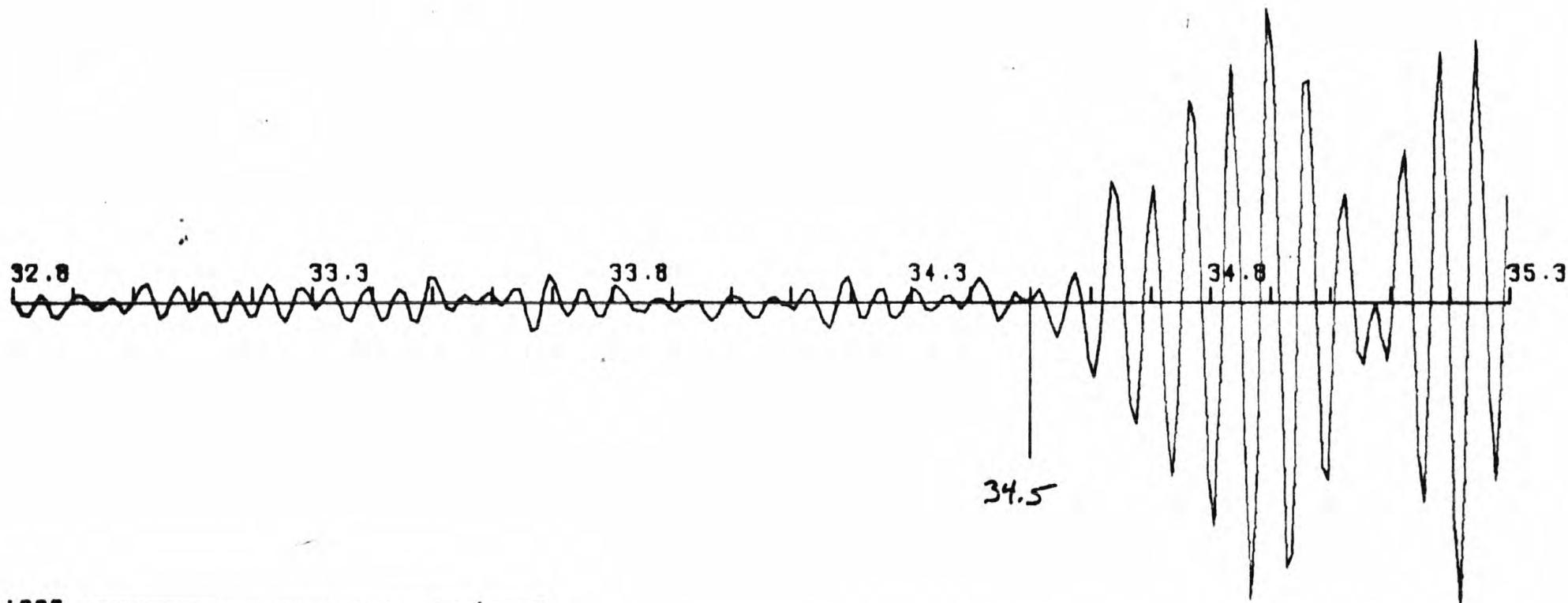
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 1

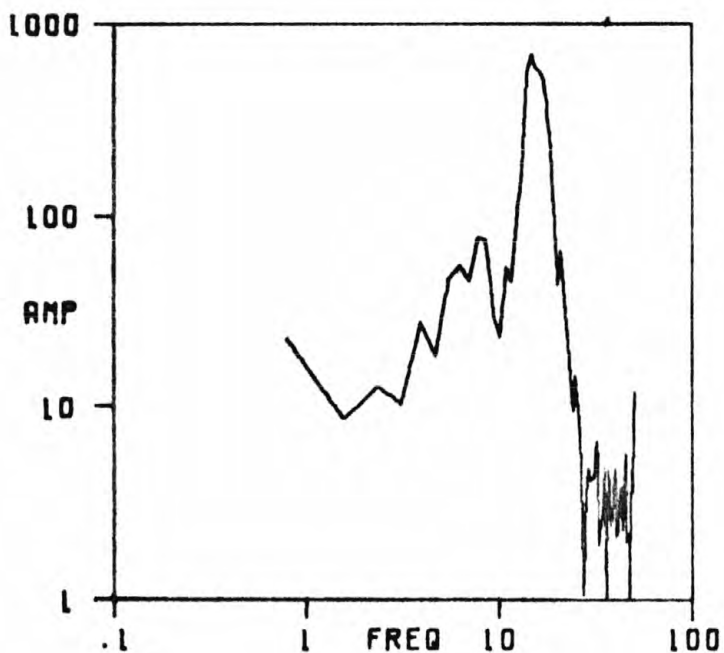
RECORDER LOCATION 340

DISTANCE FROM SHOT (KM) = -218.415

TSCALE (CM/SEC) = 10.0



84



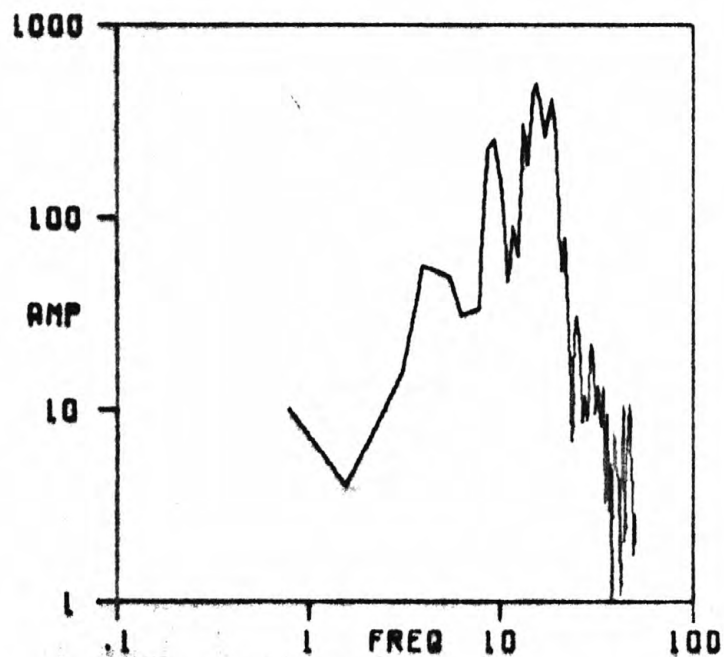
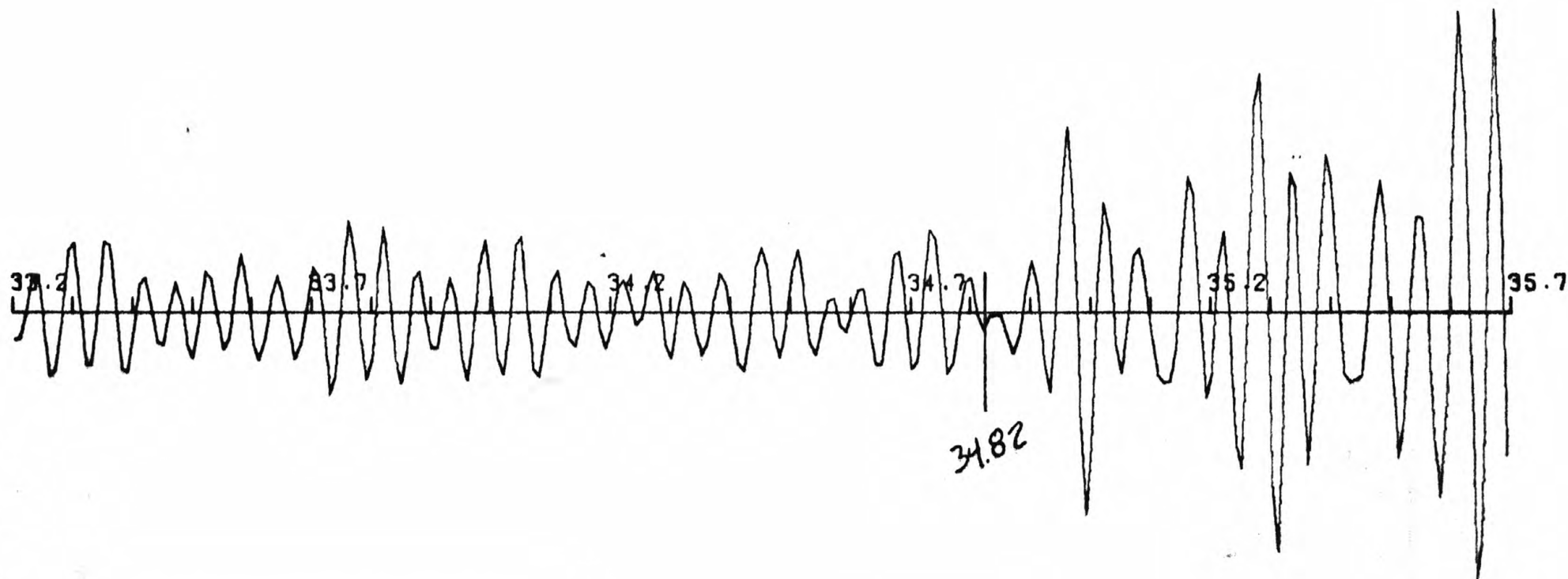
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 1

RECORDER LOCATION 341

DISTANCE FROM SHOT (KM) = -220.663

TSCALE (CM/SEC) = 10.0



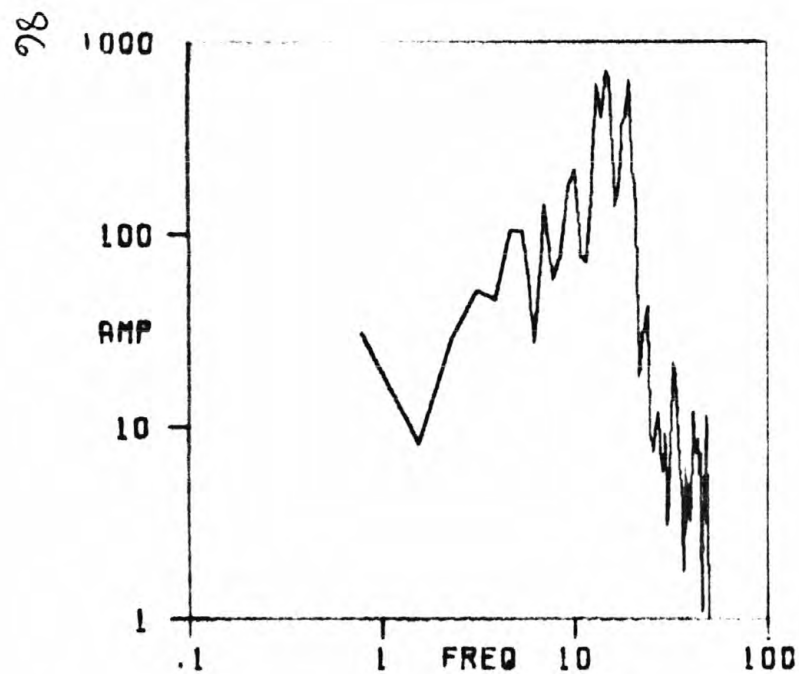
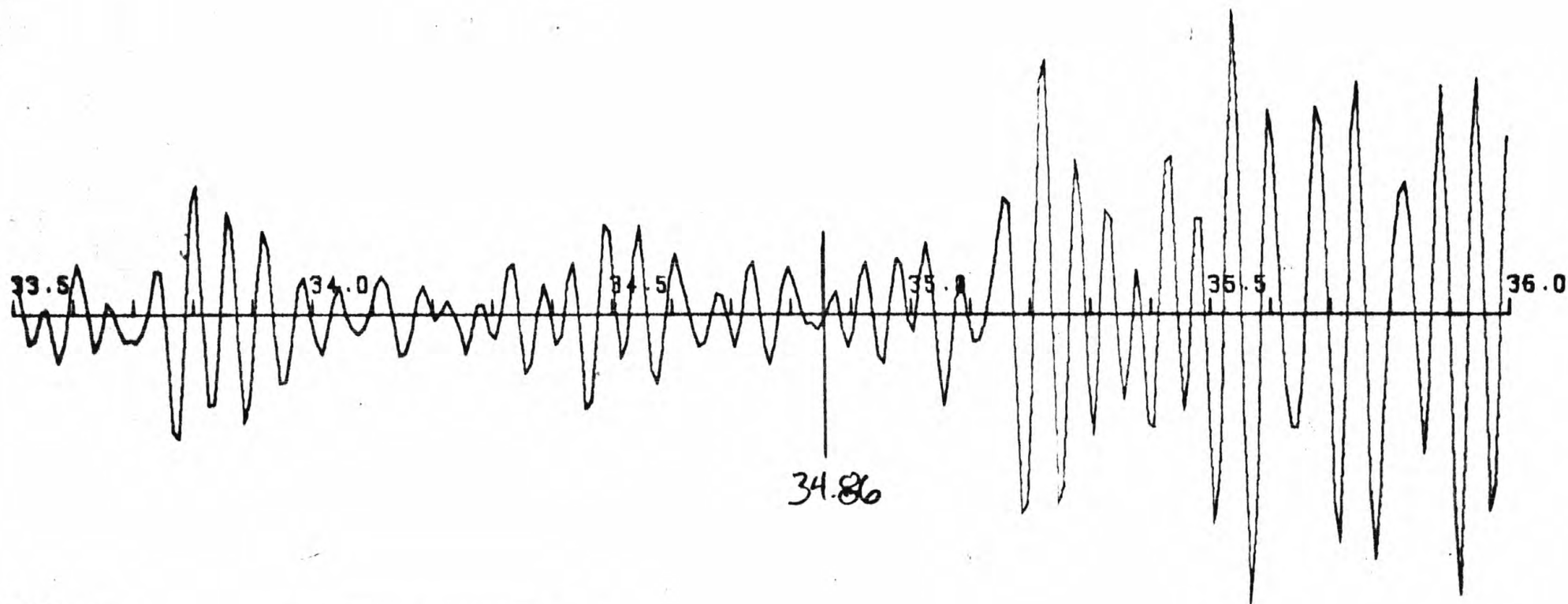
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 1

RECORDER LOCATION 342

DISTANCE FROM SHOT (KM) = -223.047

TS SCALE (CM/SEC) = 10.0



SAUDI REFRACTION PROFILE 15.20 BP

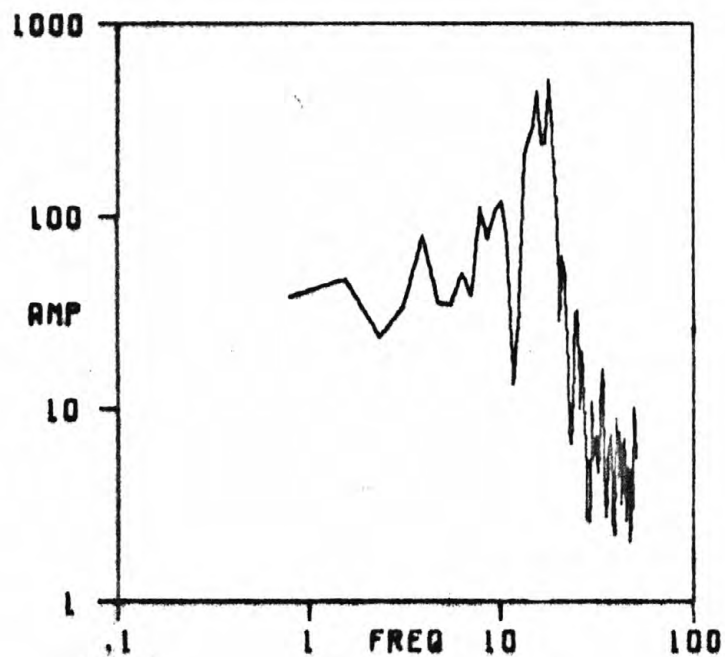
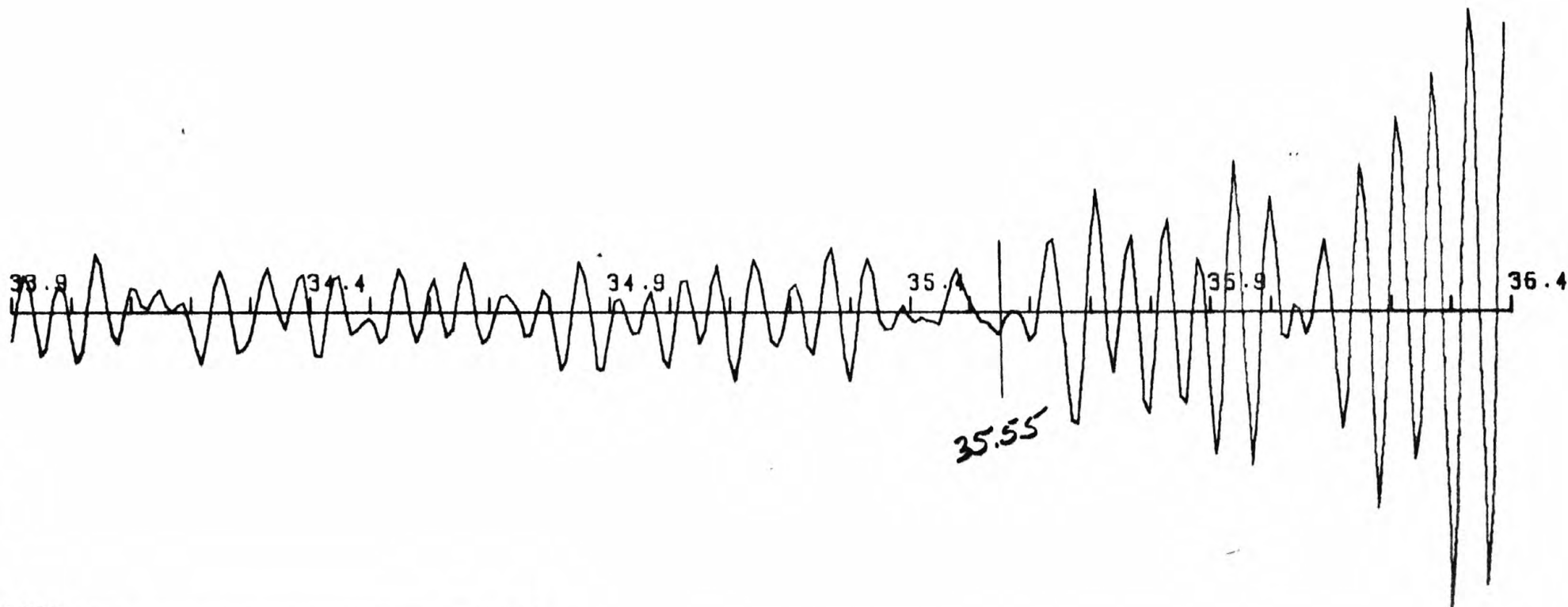
SHOT POINT 1

RECORDER LOCATION 343

DISTANCE FROM SHOT (KM) = -224.562

TSCALE (CM/SEC) = 10.0

87



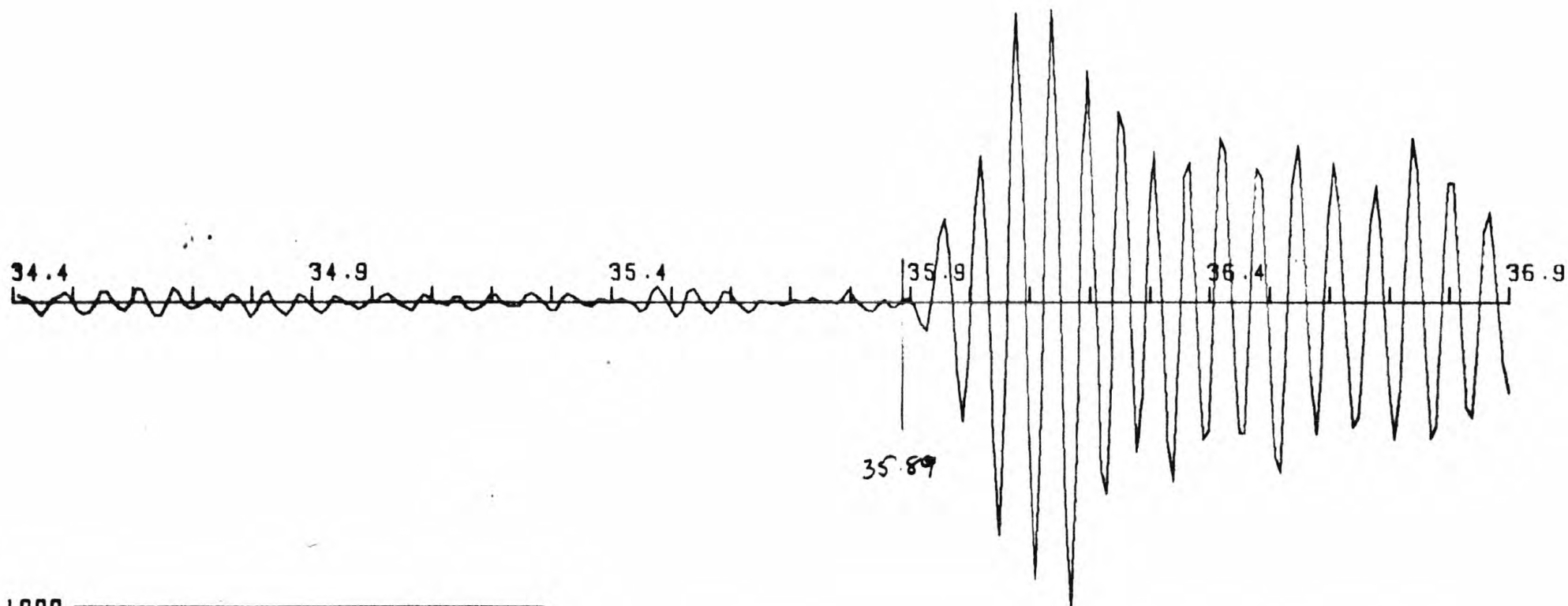
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 1

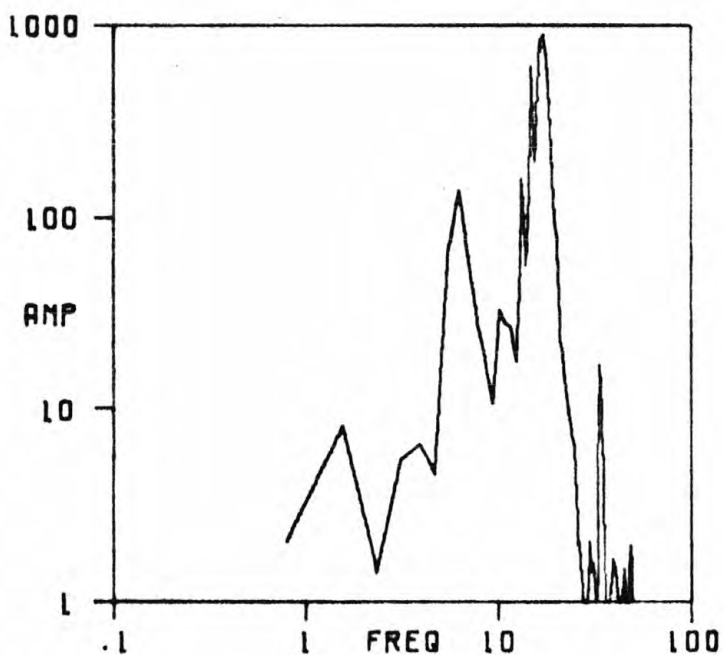
RECORDER LOCATION 344

DISTANCE FROM SHOT (KM) = -227.165

TS SCALE (CM/SEC) = 10.0



88



SAUDI REFRACTION PROFILE 15.20 BP

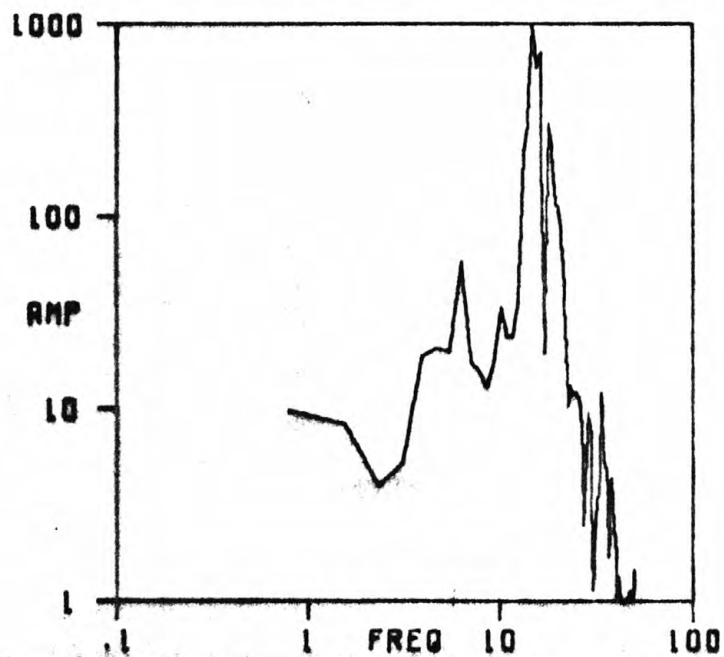
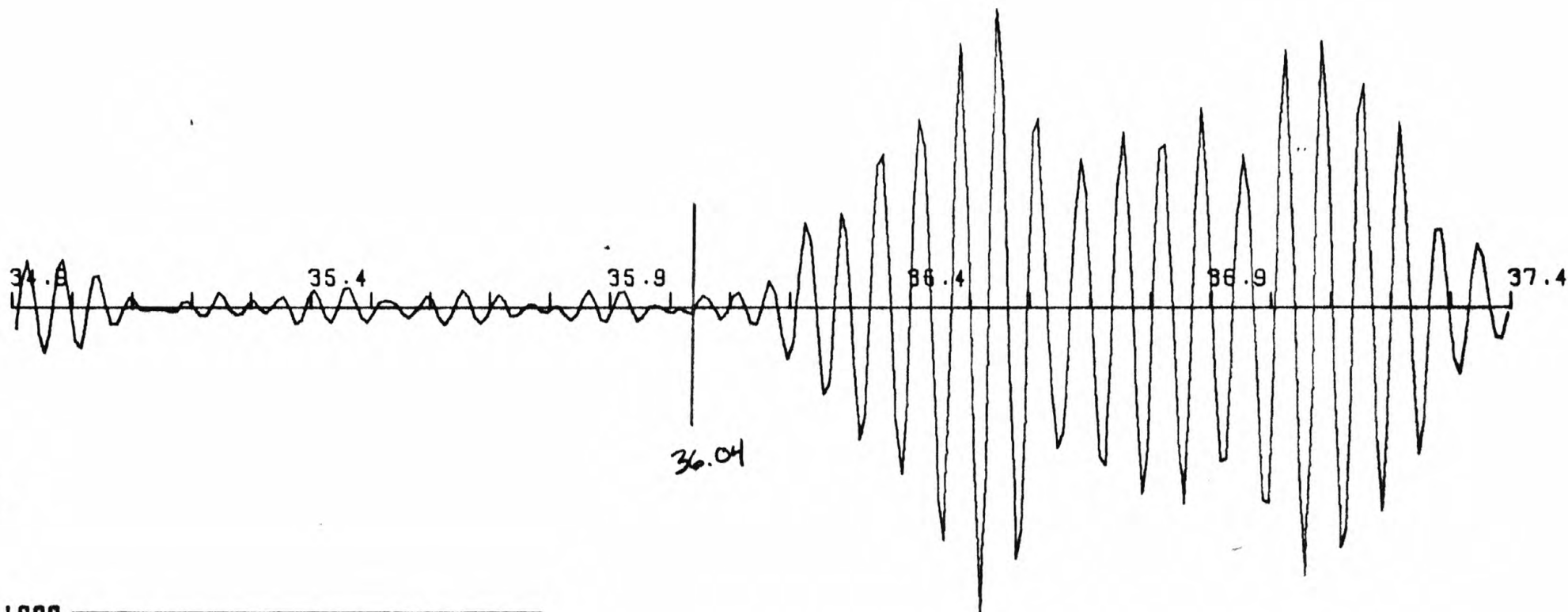
SHOT POINT 1

RECORDER LOCATION 346

DISTANCE FROM SHOT (KM) = -230.336

TSCALE (CM/SEC) = 10.0

68



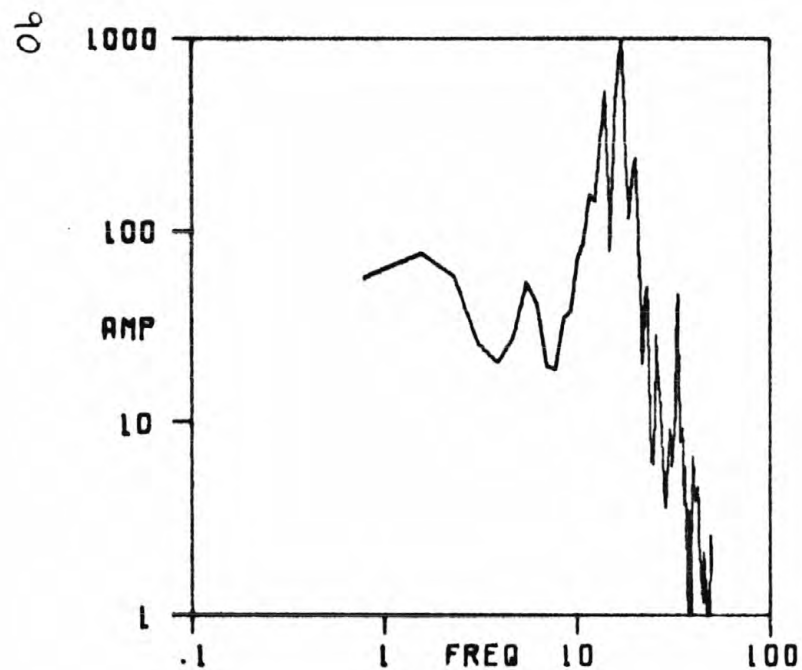
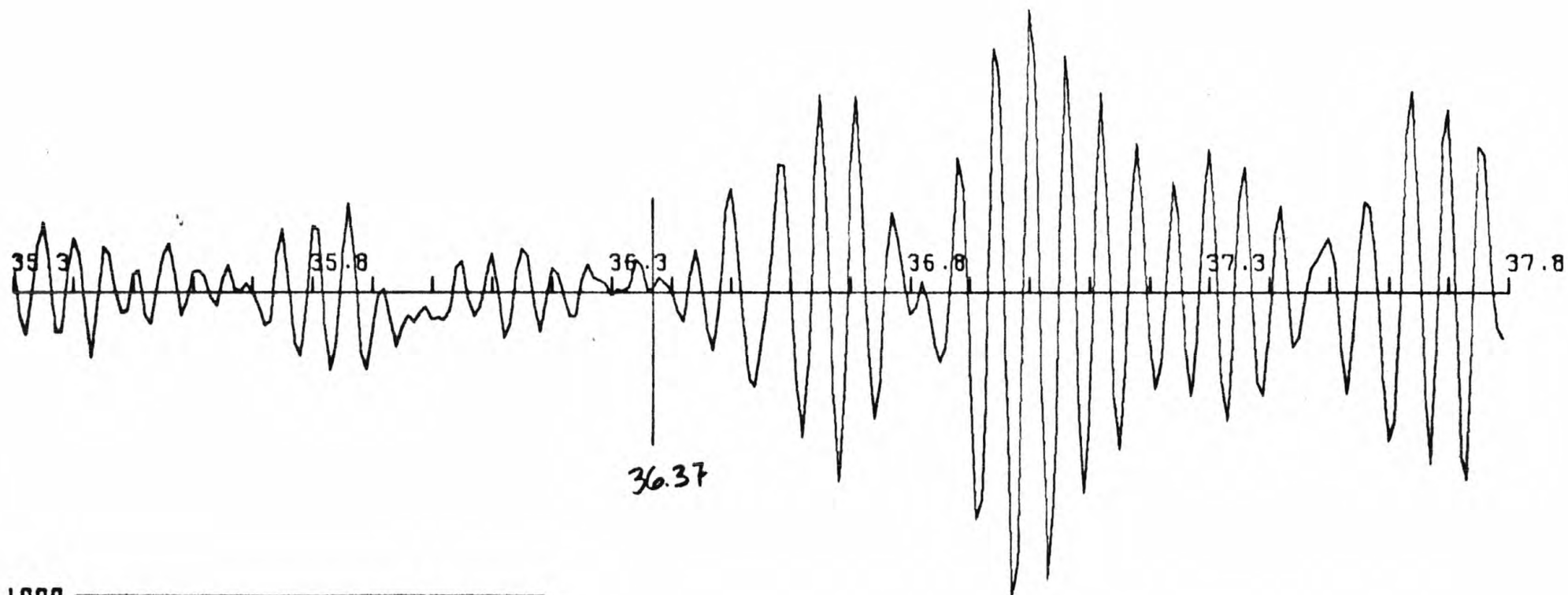
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 1

RECORDER LOCATION 347

DISTANCE FROM SHOT (KM) = -233.261

TS SCALE (CM/SEC) = 10.0



SAUDI REFRACTION PROFILE 15.20 BP

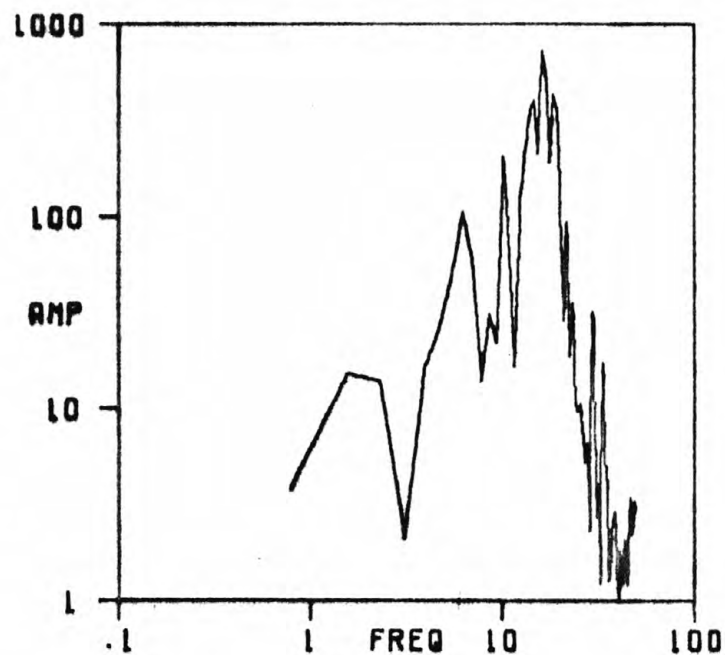
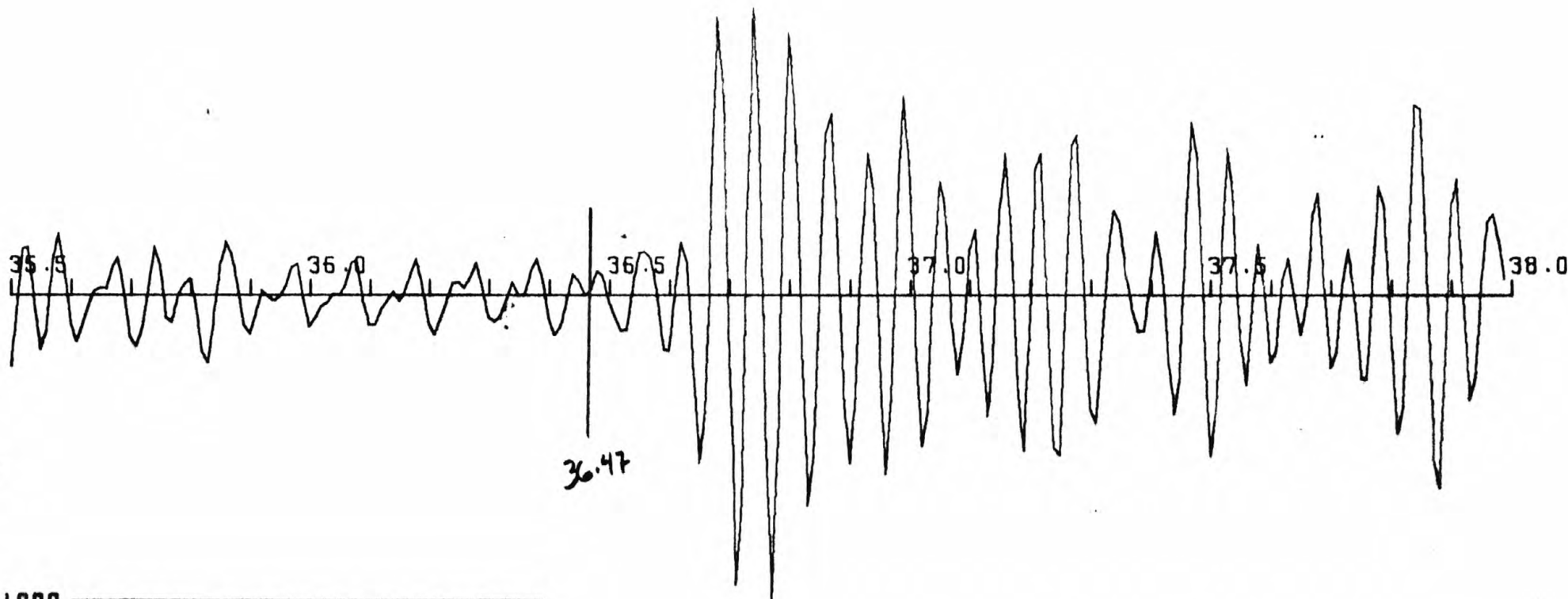
SHOT POINT 1

RECORDER LOCATION 348

DISTANCE FROM SHOT (KM) = -235.271

TSCALE (CM/SEC) = 10.0

16



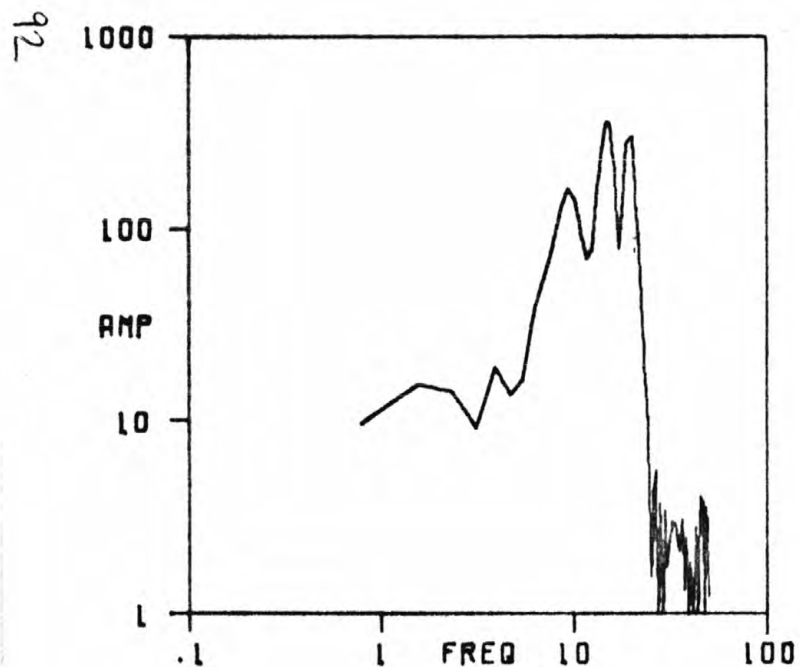
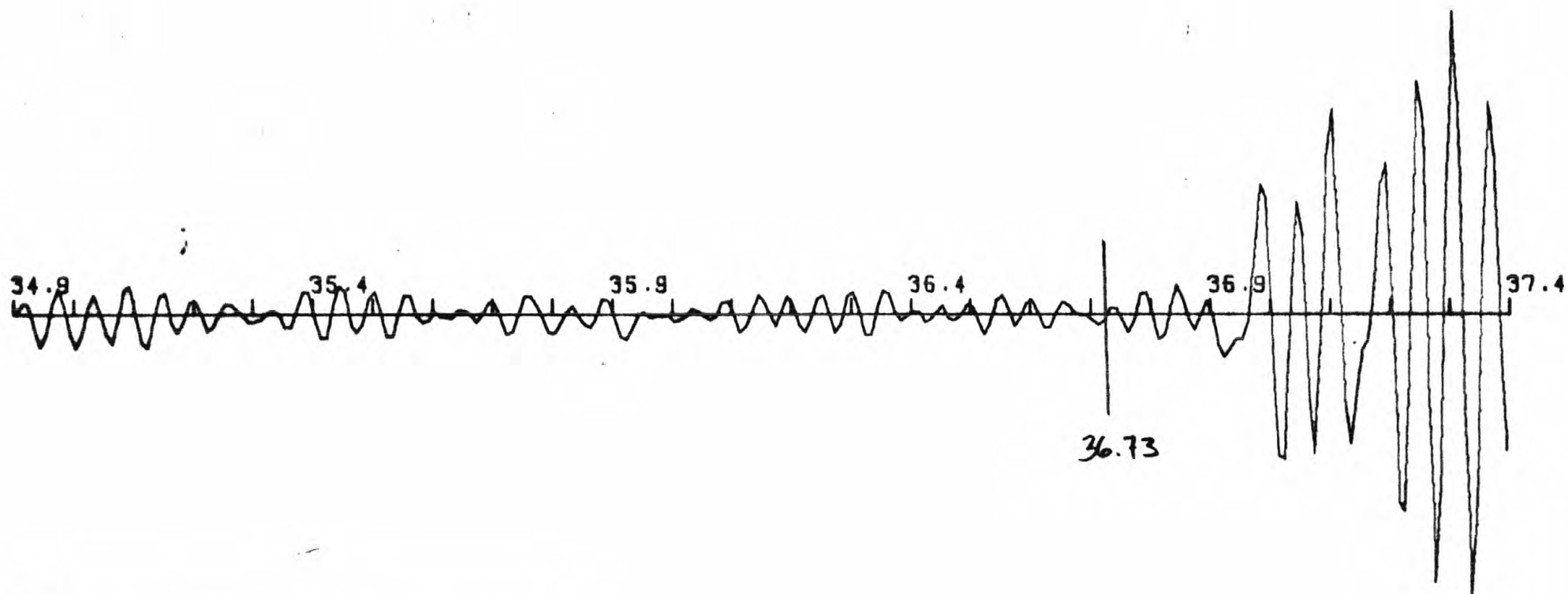
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 1

RECORDER LOCATION 349

DISTANCE FROM SHOT (KM) = -236.942

TSCALE (CM/SEC) = 10.0



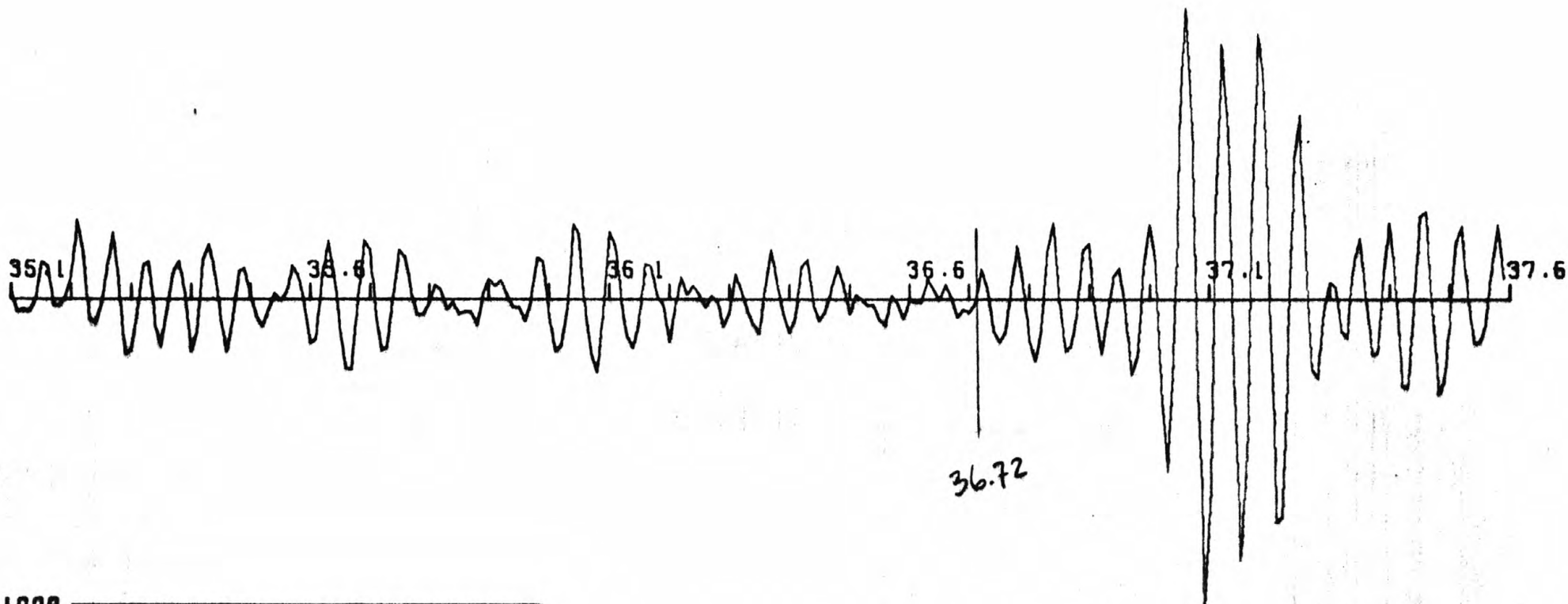
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 1

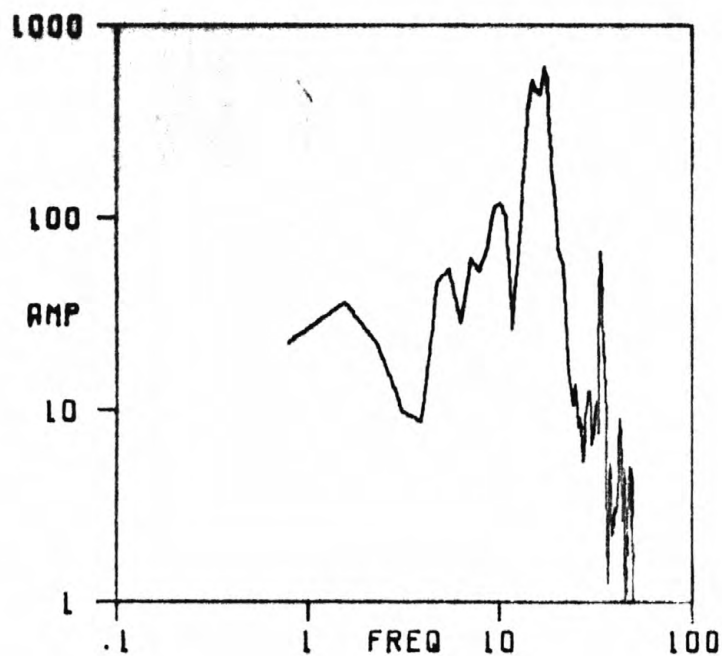
RECORDER LOCATION 350

DISTANCE FROM SHOT (KM) = -239.139

TSCALE (CM/SEC) = 10.0



93



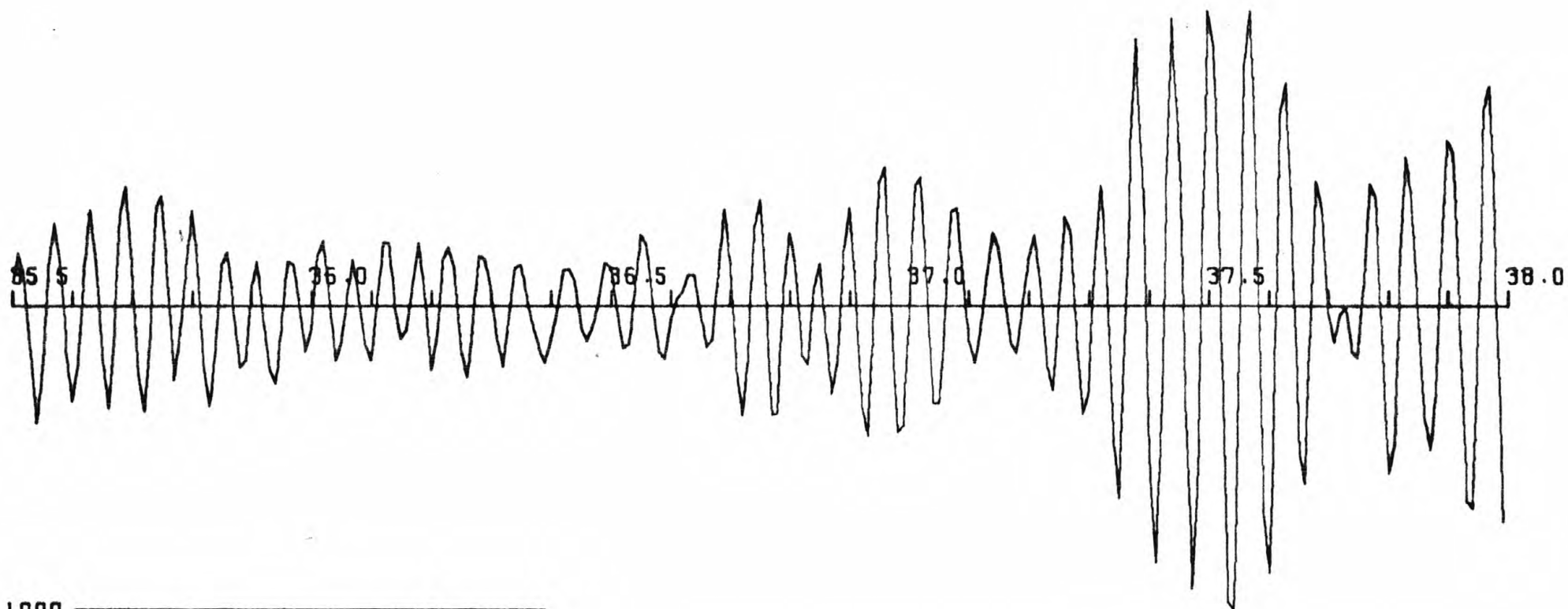
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 1

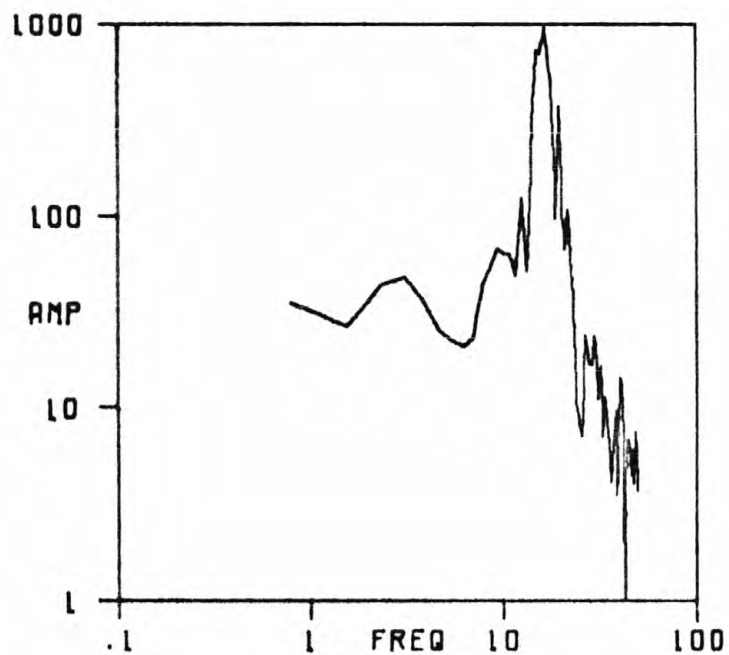
RECORDER LOCATION 351

DISTANCE FROM SHOT (KM) = -240.074

TSCALE (CM/SEC) = 10.0



94



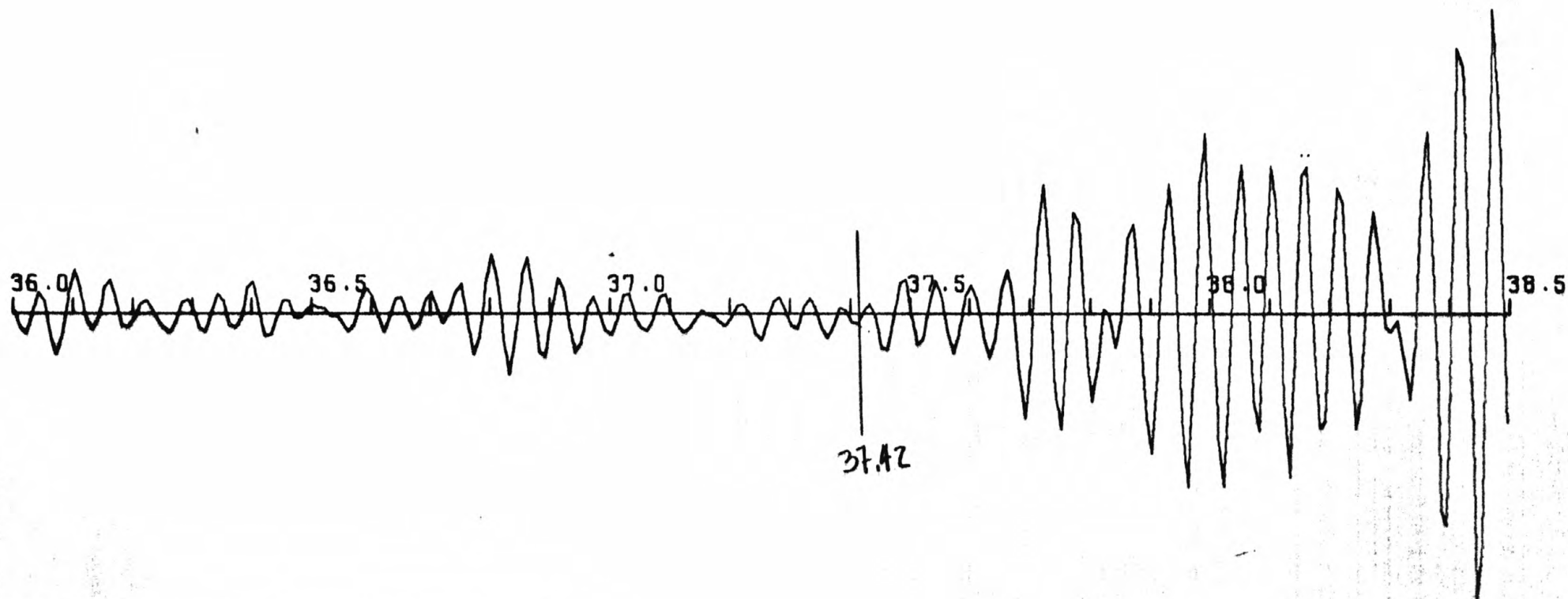
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 1

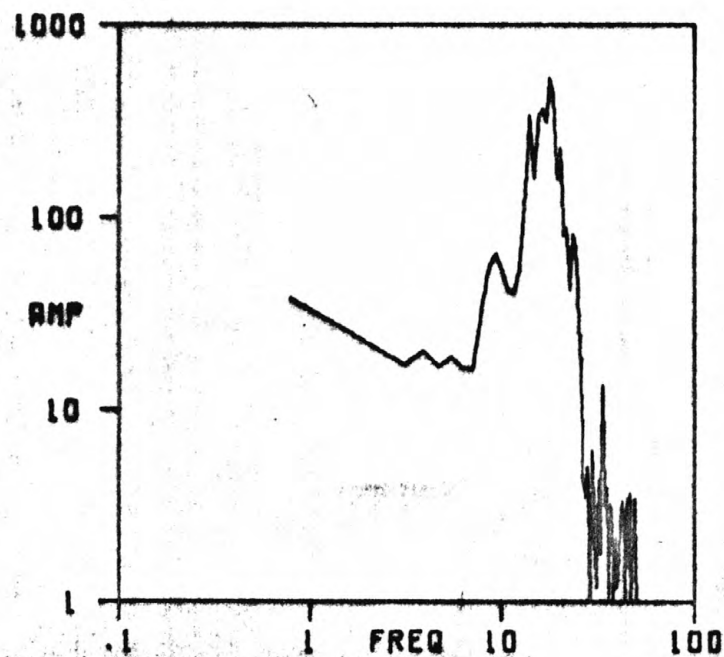
RECORDER LOCATION 353

DISTANCE FROM SHOT (KM) = -242.768

TSCALE (CM/SEC) = 10.0



95



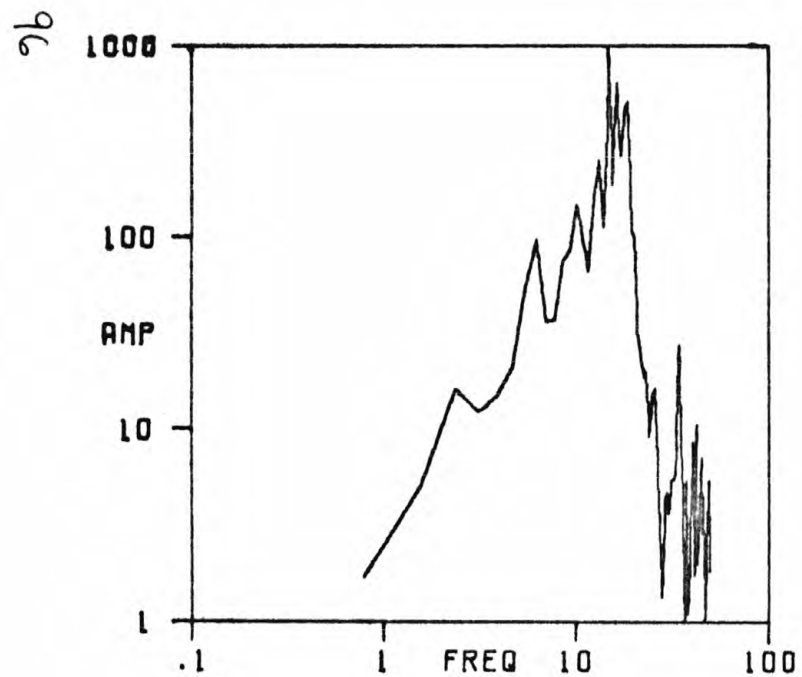
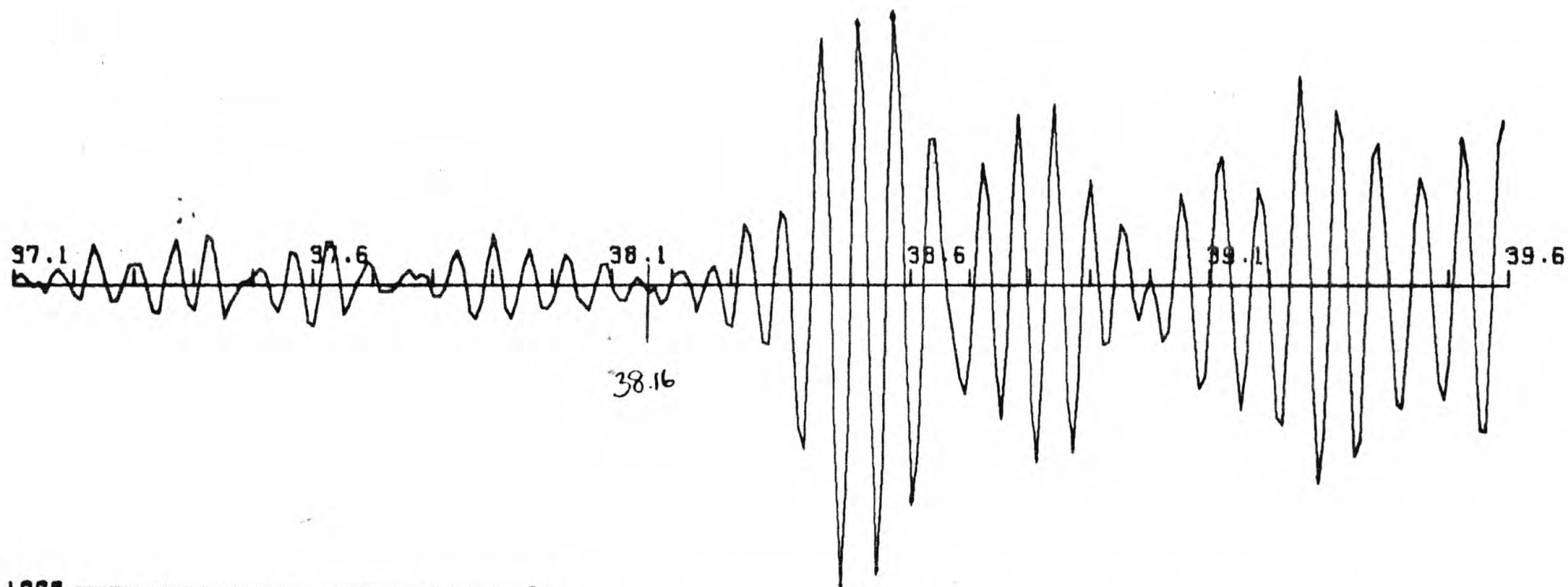
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 1

RECORDER LOCATION 354

DISTANCE FROM SHOT (KM) = -245.549

TS SCALE (CM/SEC) = 10.0



SAUDI REFRACTION PROFILE 15.20 BP

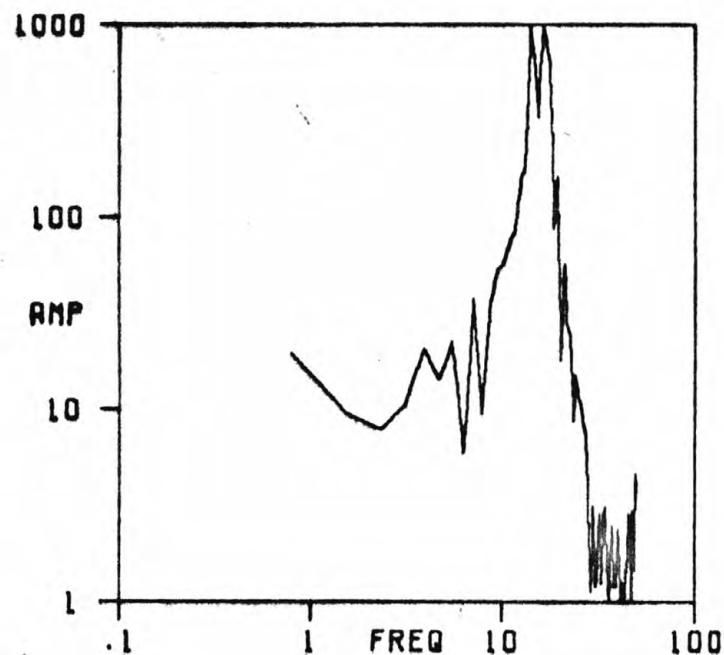
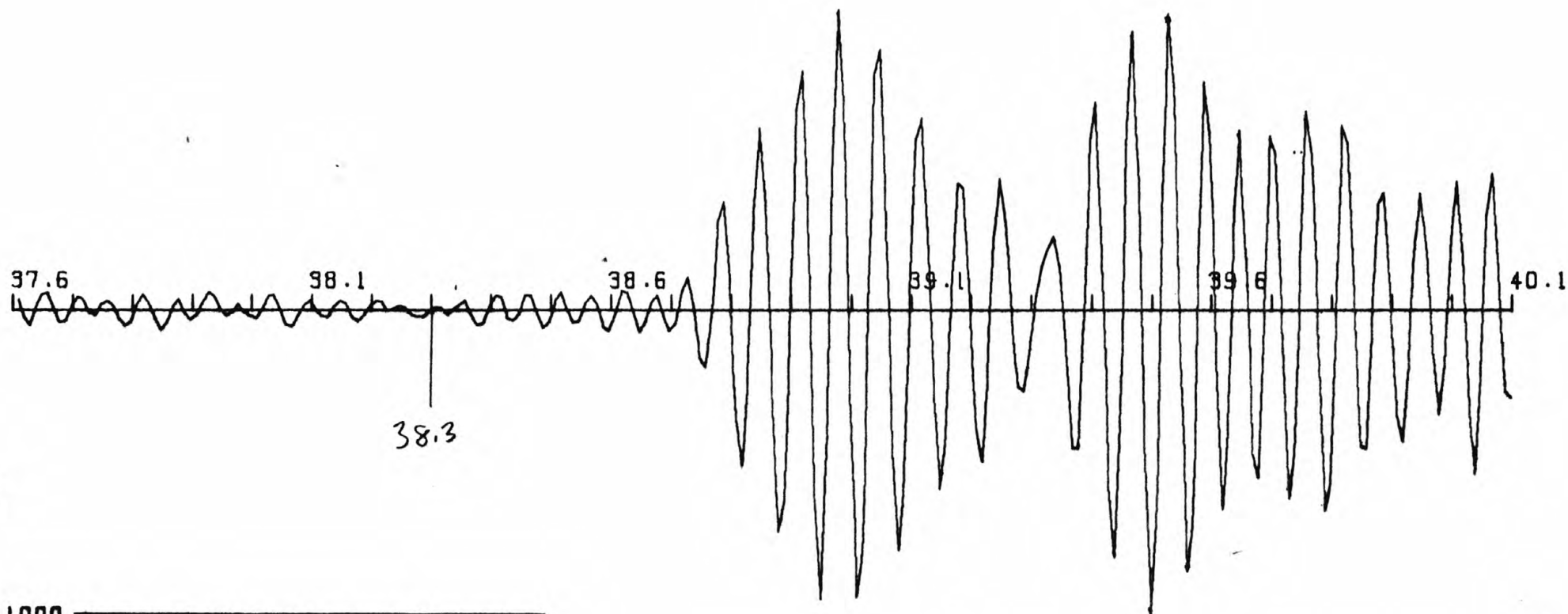
SHOT POINT 1

RECORDER LOCATION 357

DISTANCE FROM SHOT (KM) = -252.203

TSCALE (CM/SEC) = 10.0

46
97



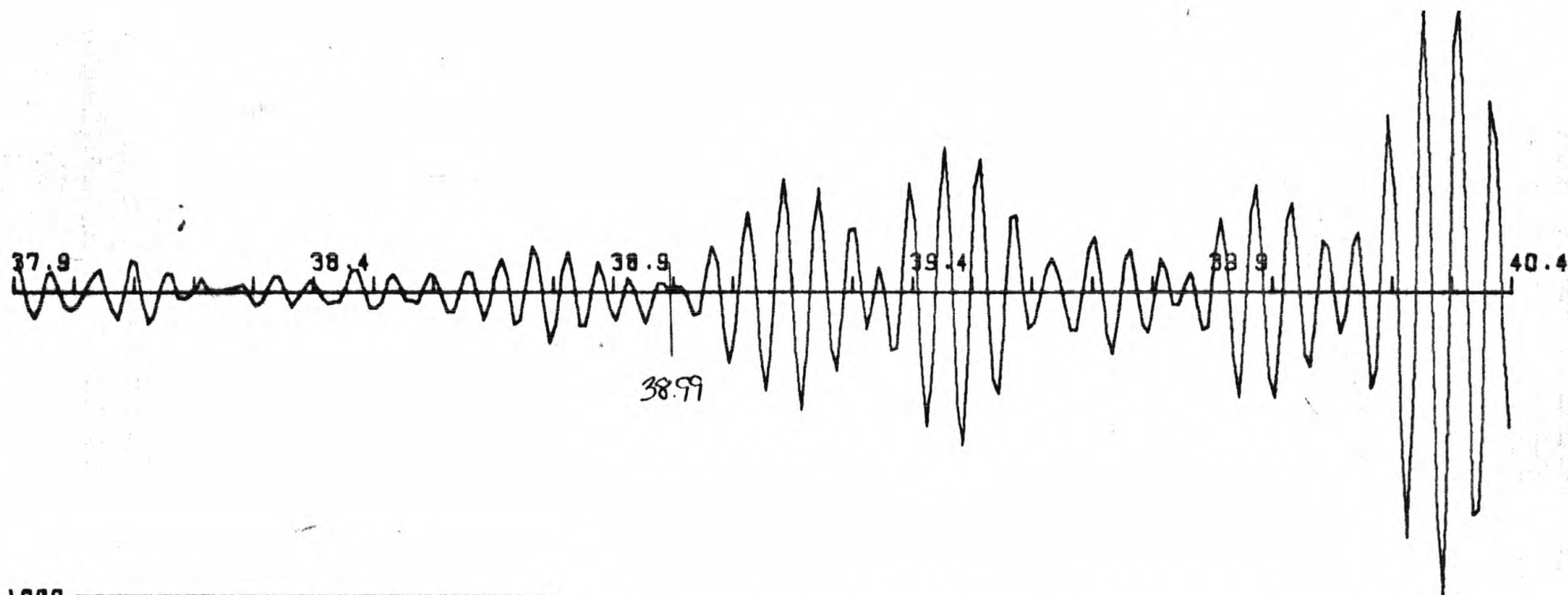
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 1

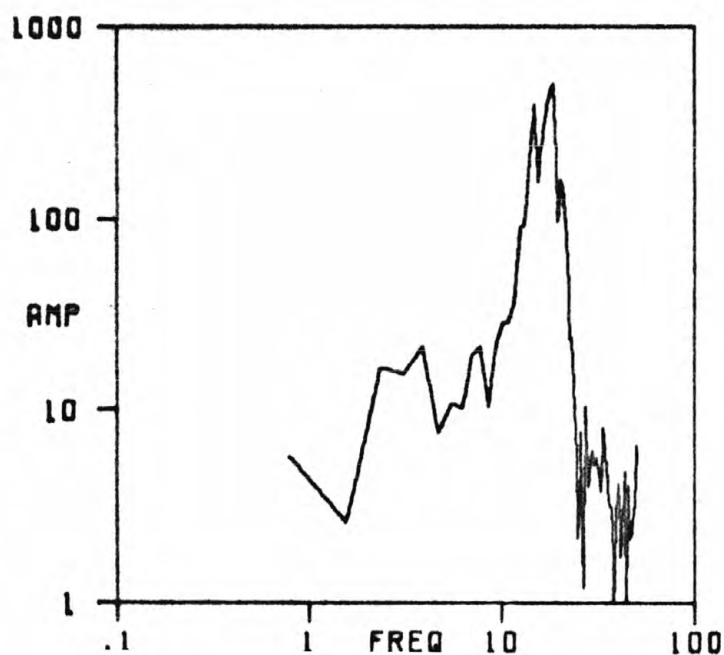
RECORDER LOCATION 358

DISTANCE FROM SHOT (KM) = -255.416

TSCALE (CM/SEC) = 10.0



sb



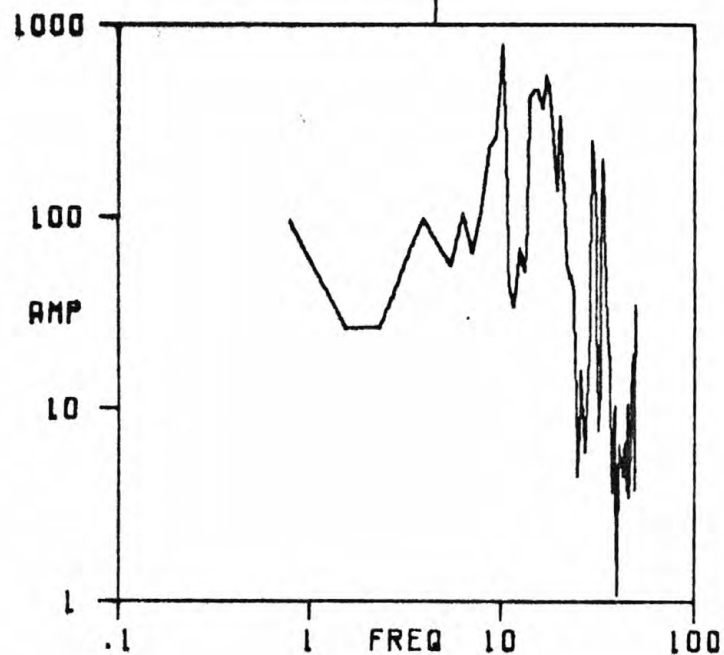
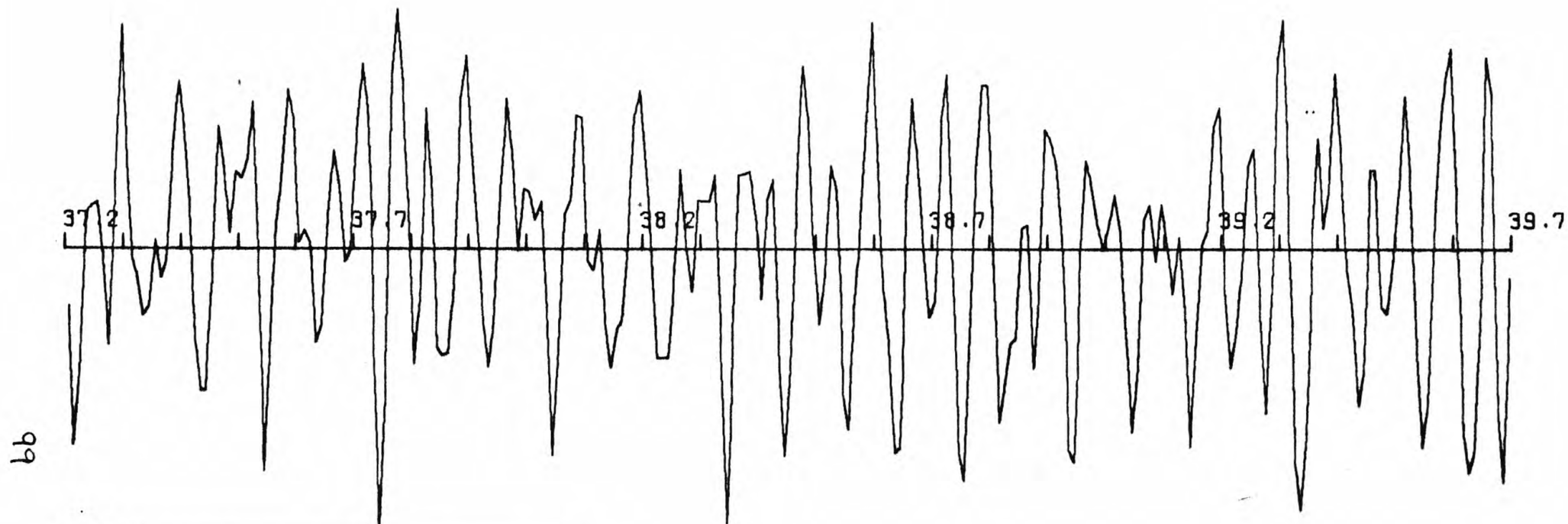
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 1

RECORDER LOCATION 359

DISTANCE FROM SHOT (KM) = -257.016

TSCALE (CM/SEC) = 10.0



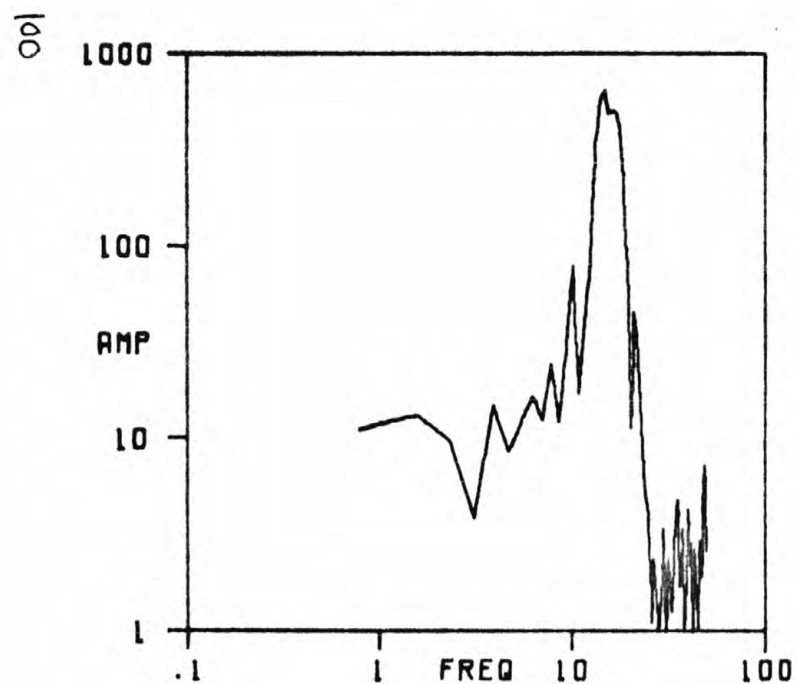
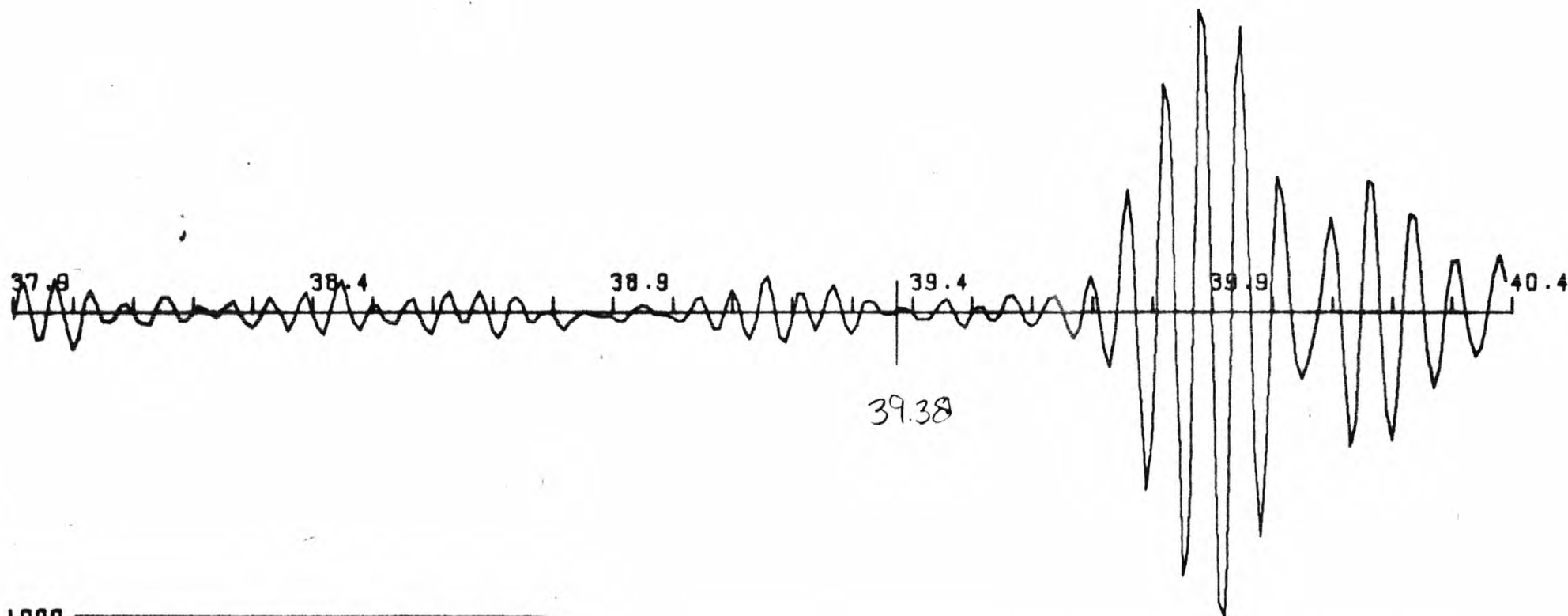
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 1

RECORDER LOCATION 360

DISTANCE FROM SHOT (KM) = -258.946

TSCALE (CM/SEC) = 10.0



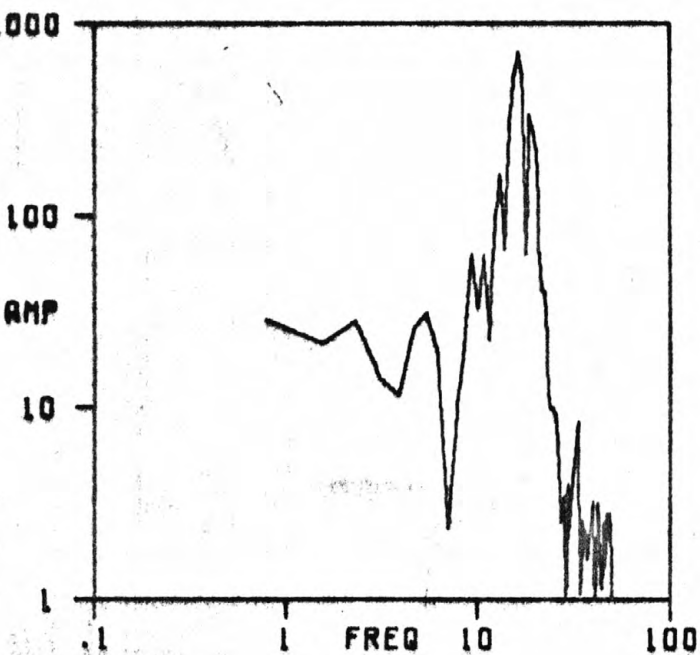
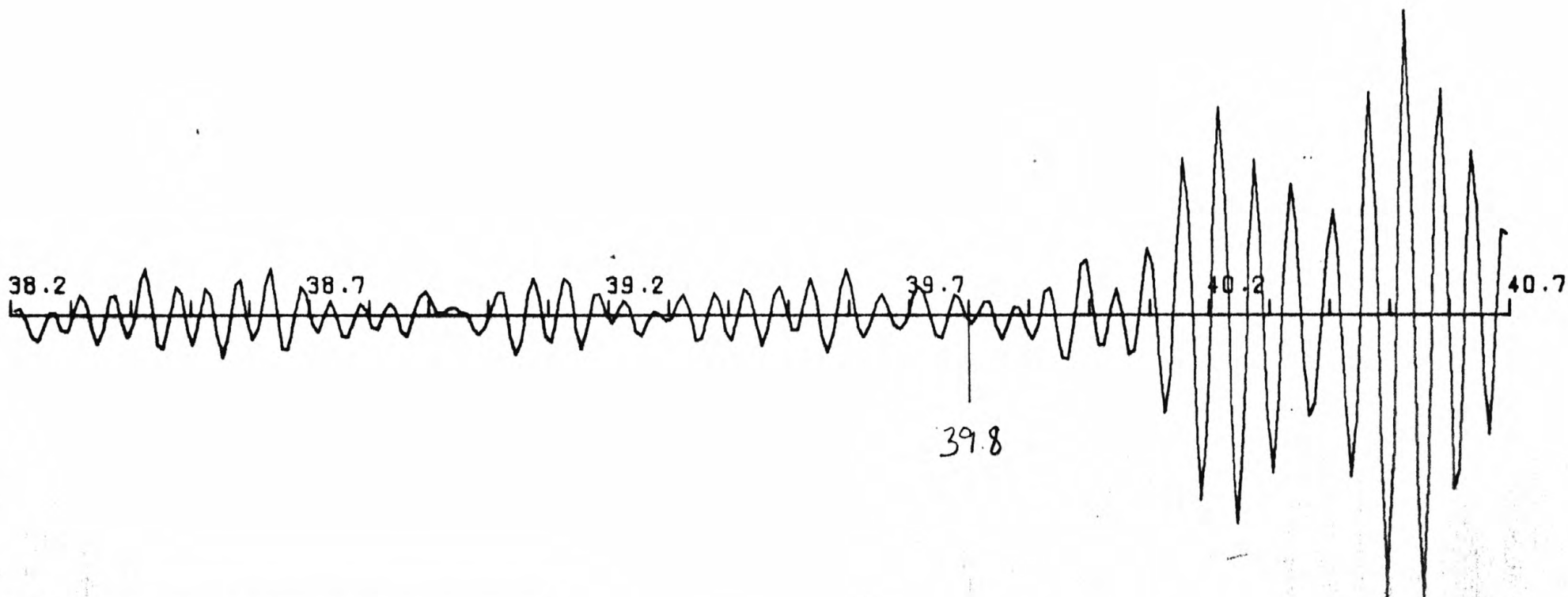
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 1

RECORDER LOCATION 362

DISTANCE FROM SHOT (KM) = -262.923

TSCALE (CM/SEC) = 10.0



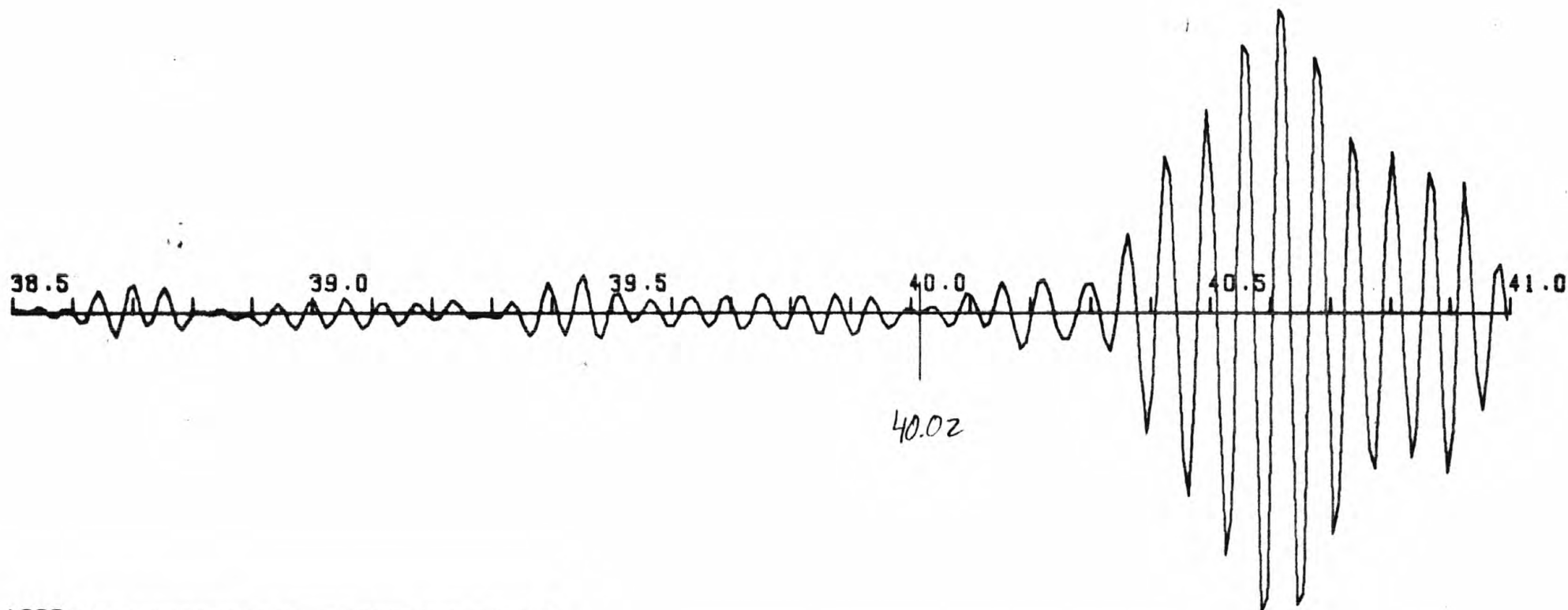
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 1

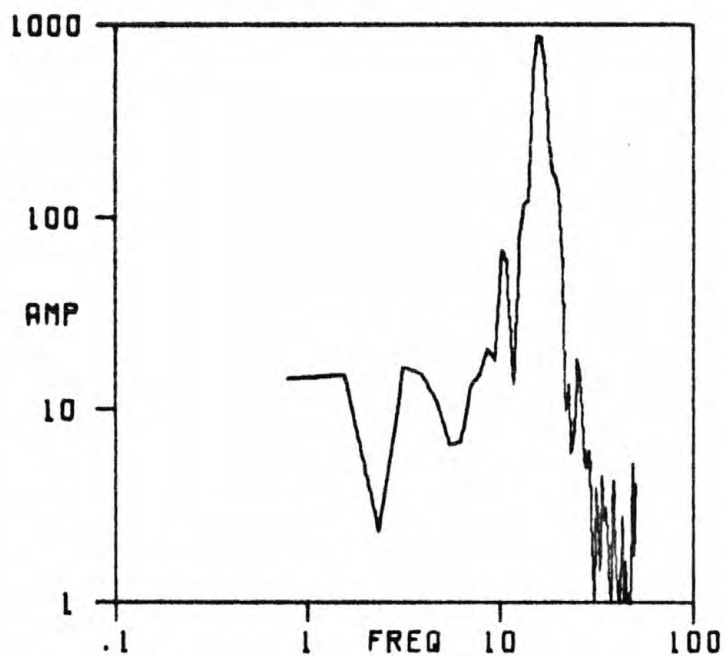
RECORDER LOCATION 363

DISTANCE FROM SHOT (KM) = -264.944

TSCALE (CM/SEC) = 10.0



162



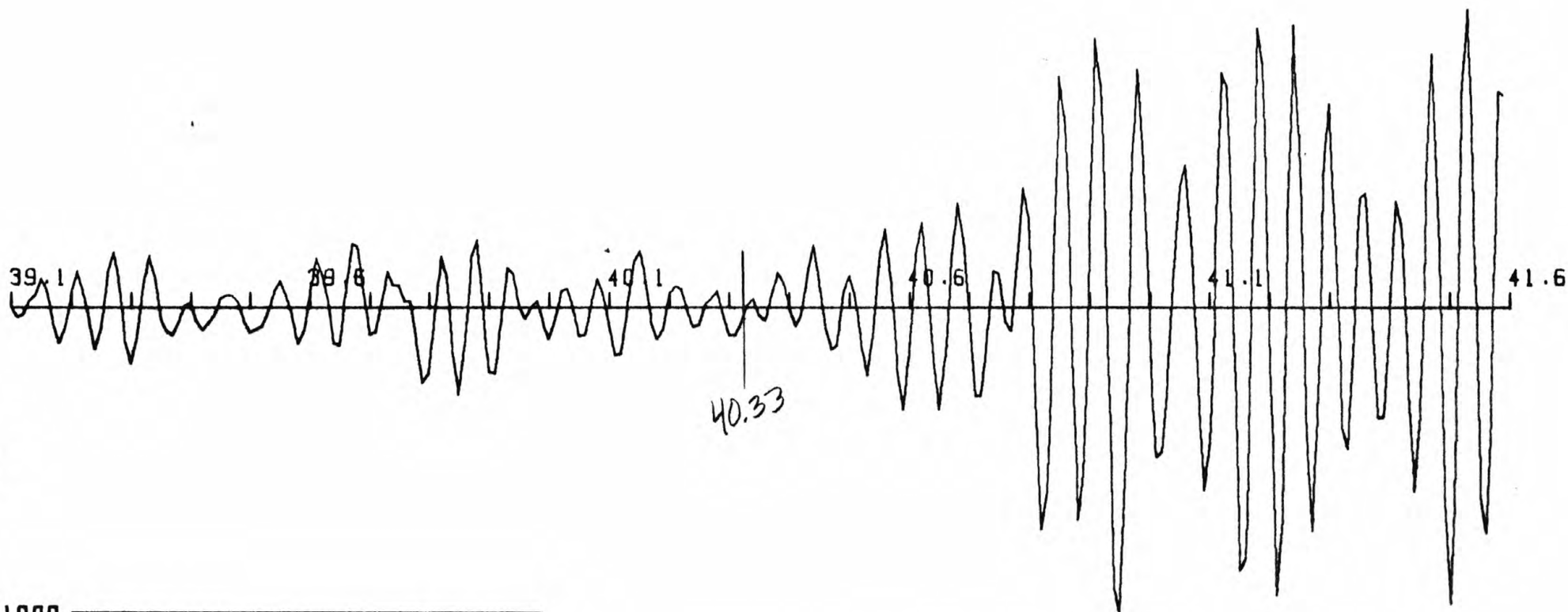
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 1

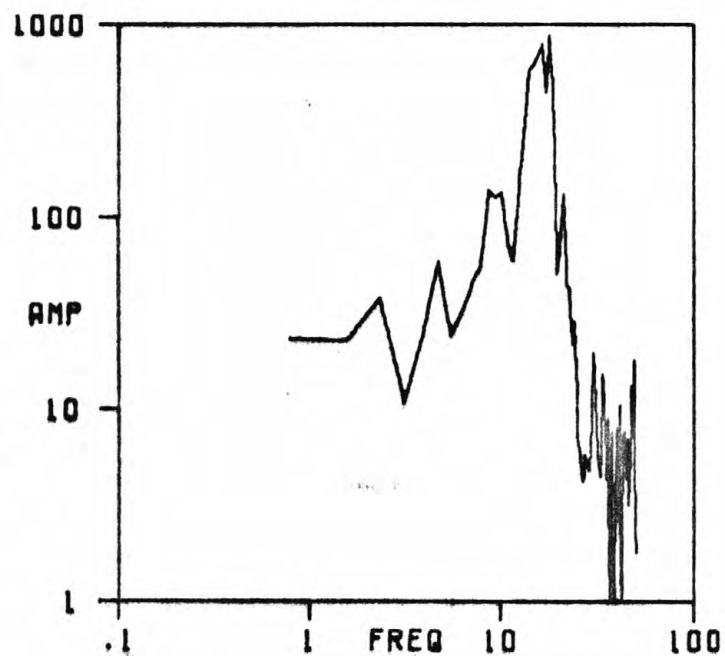
RECORDER LOCATION 364

DISTANCE FROM SHOT (KM) = -266.793

TSCALE (CM/SEC) = 10.0



103



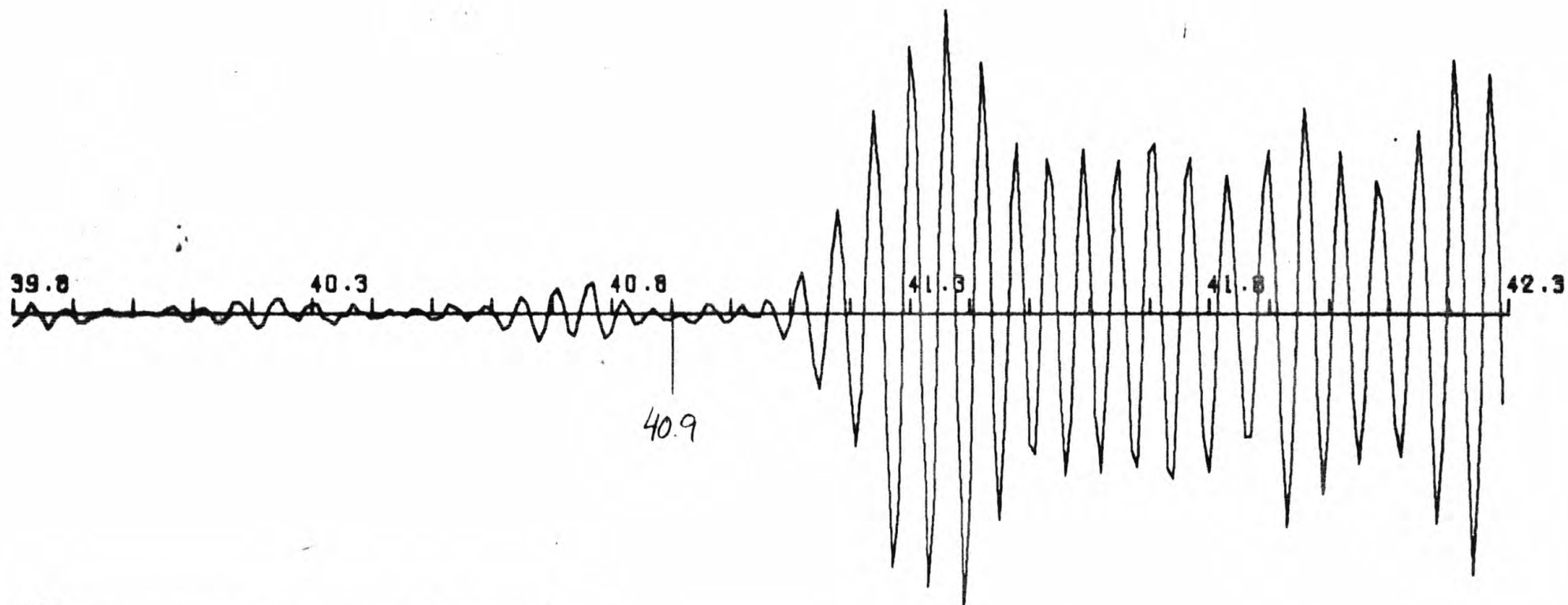
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 1

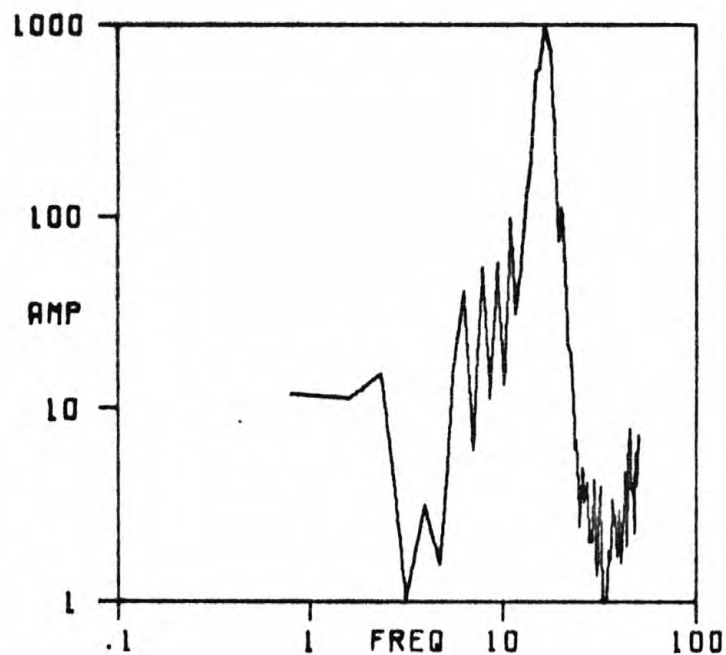
RECORDER LOCATION 374

DISTANCE FROM SHOT (KM) = -270.309

TSCALE (CM/SEC) = 10.0



104



SAUDI REFRACTION PROFILE 15.20 BP

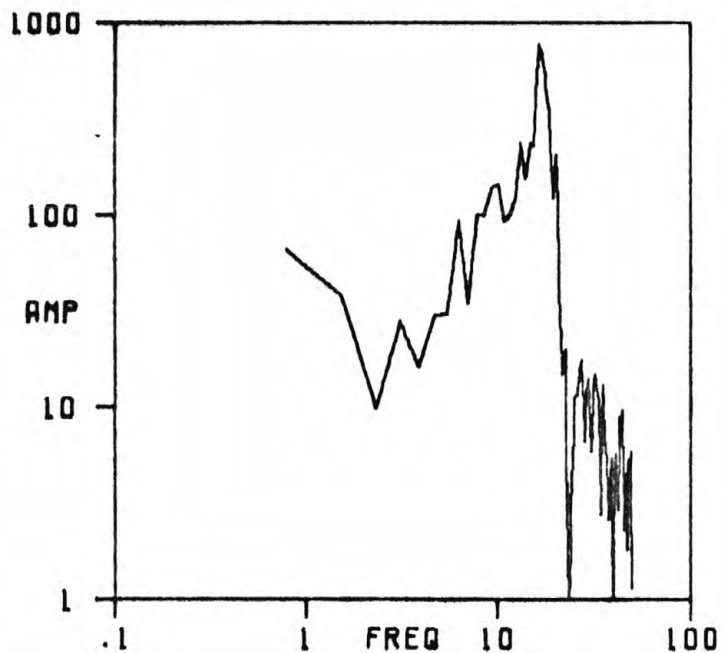
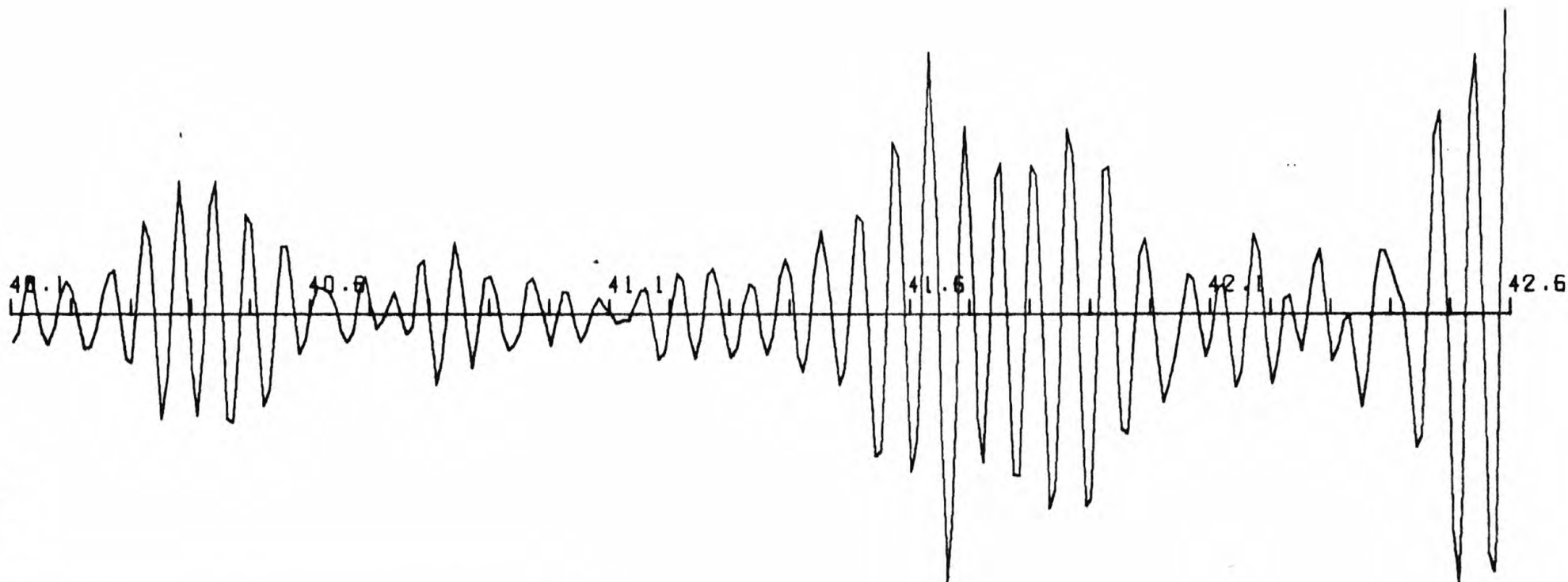
SHOT POINT 1

RECORDER LOCATION 376

DISTANCE FROM SHOT (KM) = -274.325

TSCALE (CM/SEC) = 10.0

105



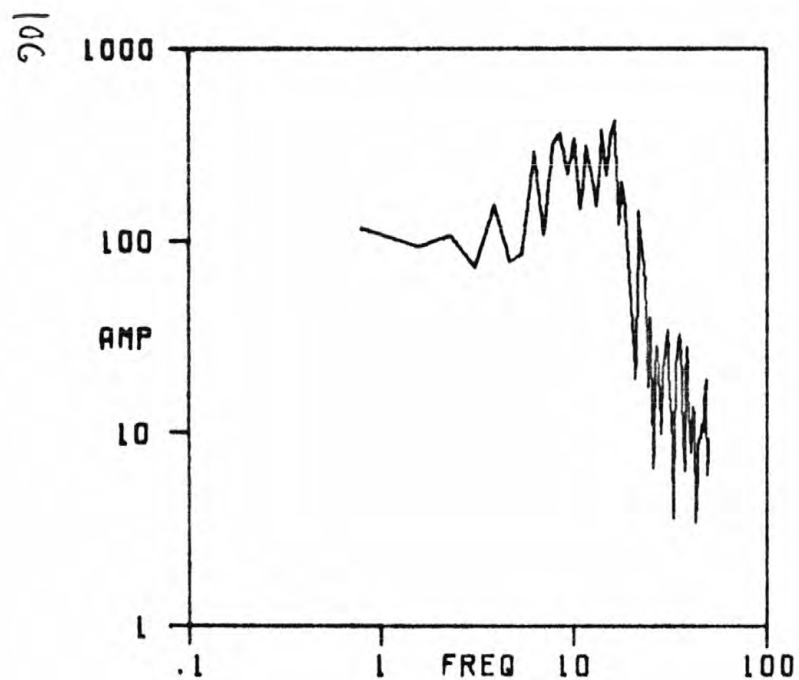
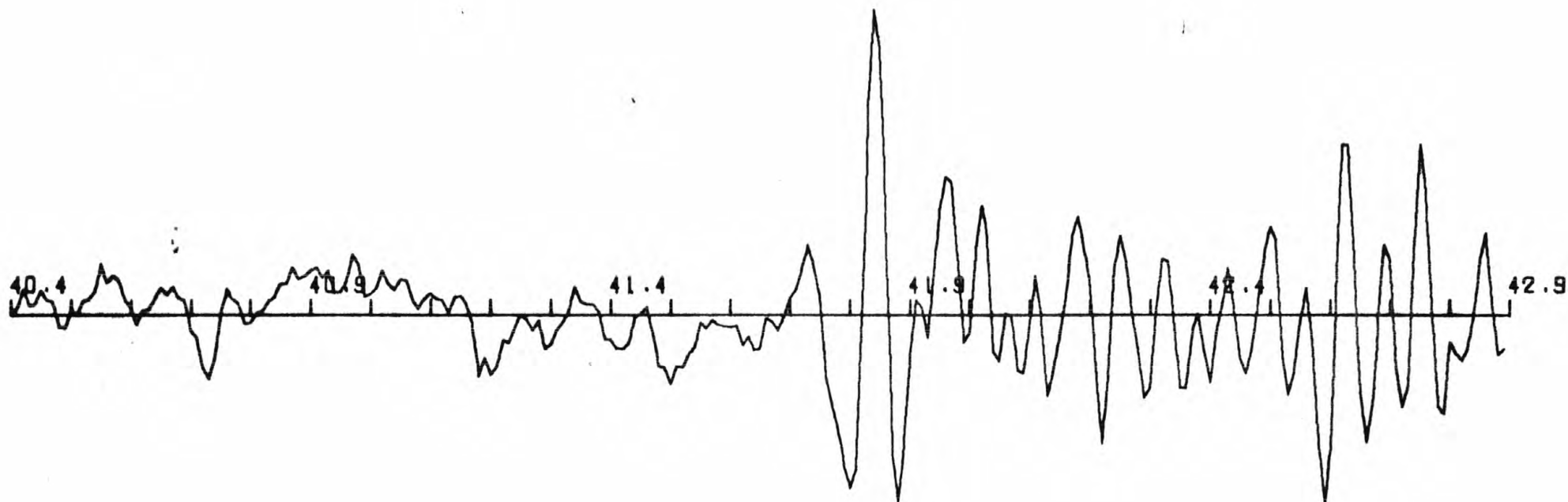
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 1

RECORDER LOCATION 377

DISTANCE FROM SHOT (KM) = -276.566

TSCALE (CM/SEC) = 10.0



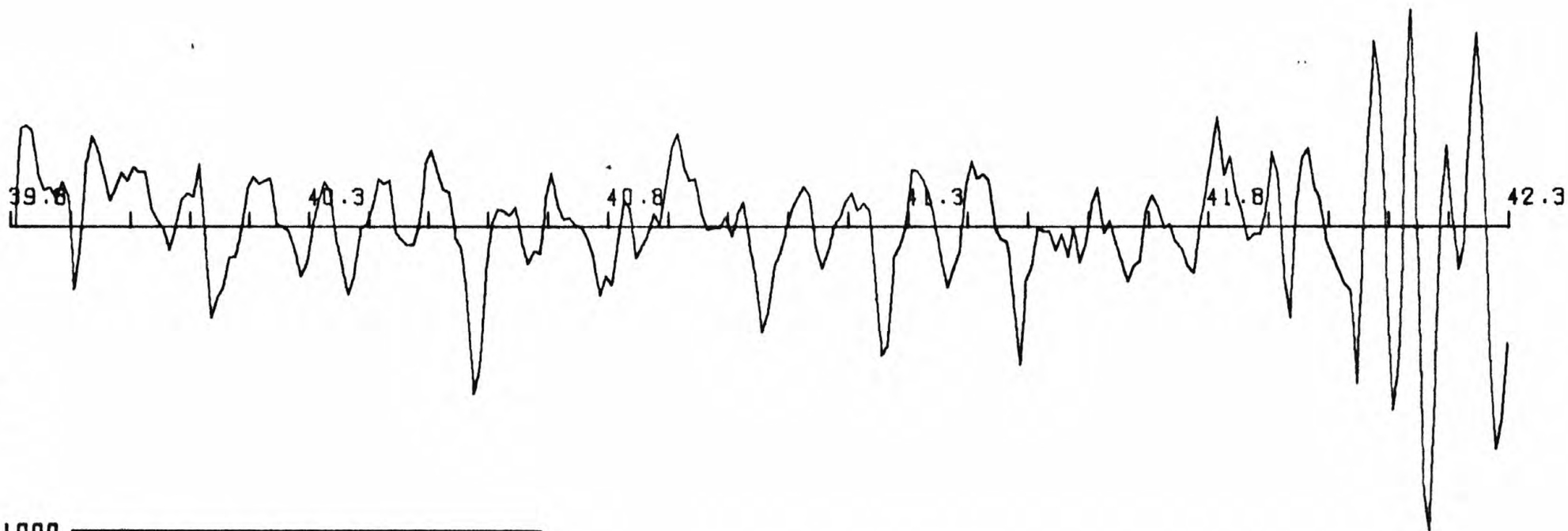
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 1

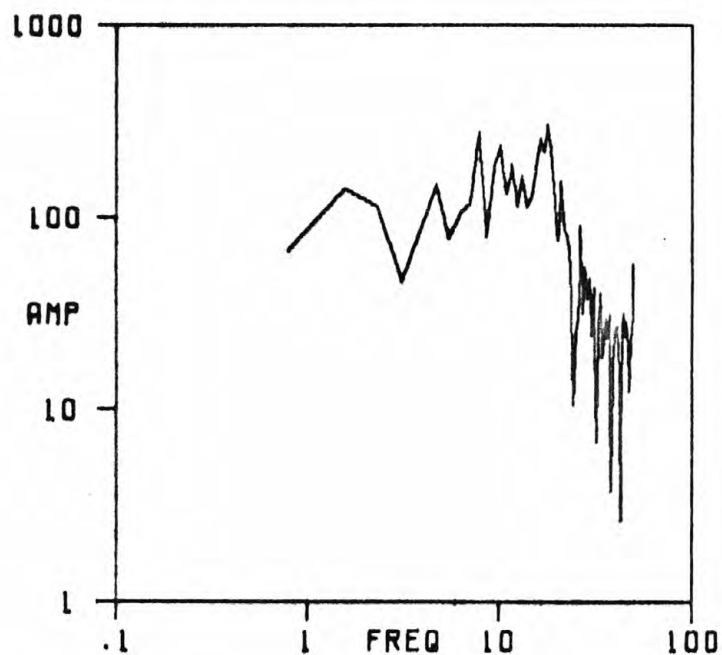
RECORDER LOCATION 378

DISTANCE FROM SHOT (KM) = -278.111

TSCALE (CM/SEC) = 10.0



107



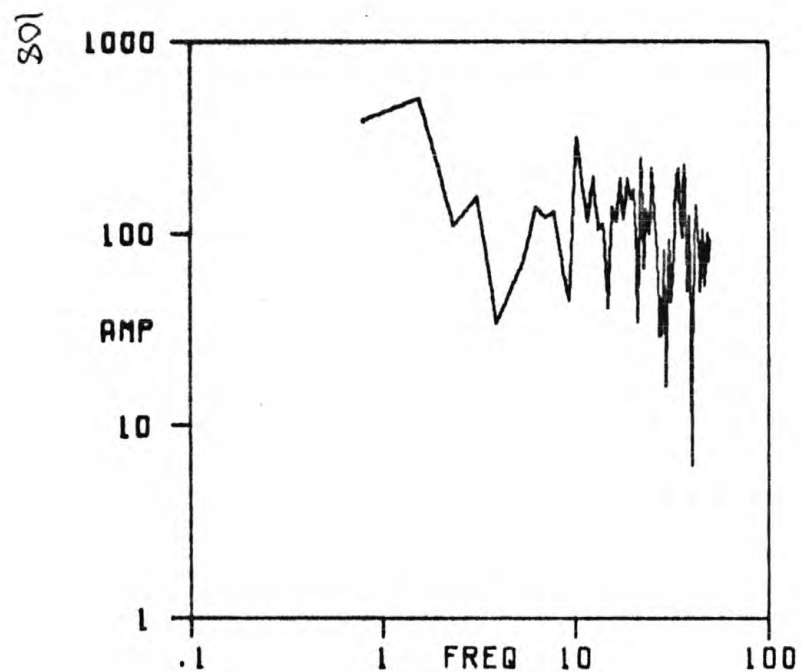
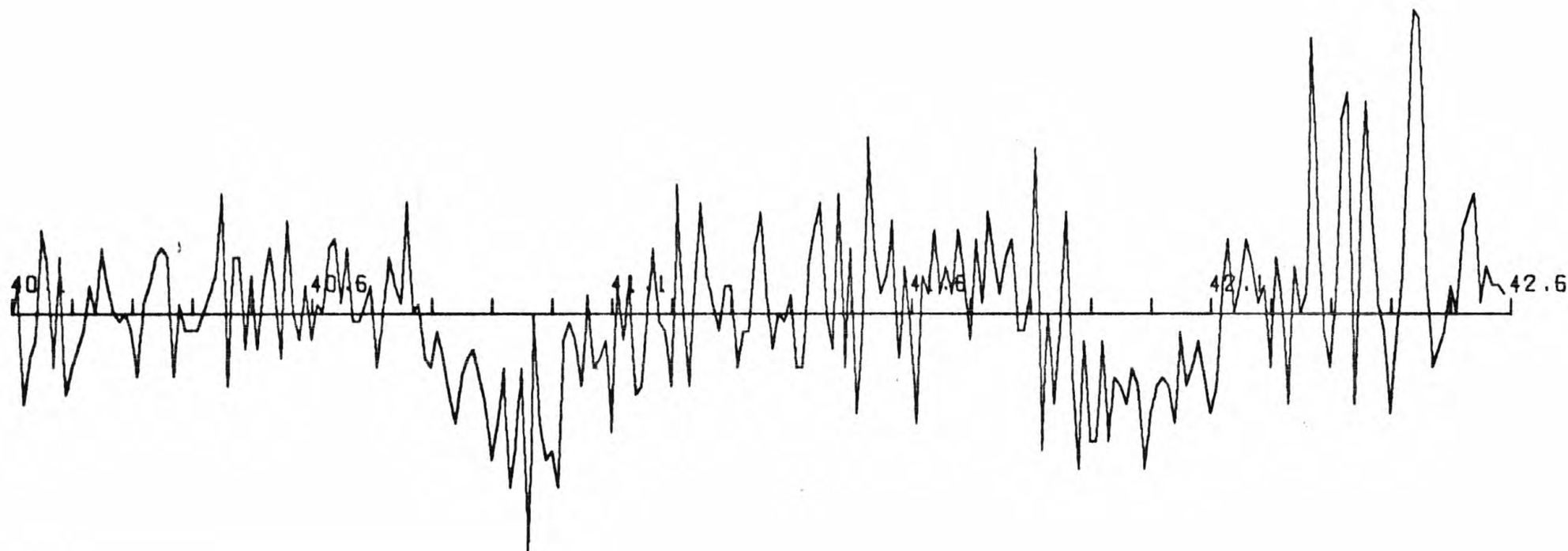
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 1

RECORDER LOCATION 379

DISTANCE FROM SHOT (KM) = -280.487

TSCALE (CM/SEC) = 10.0



SAUDI REFRACTION PROFILE 15.20 BP

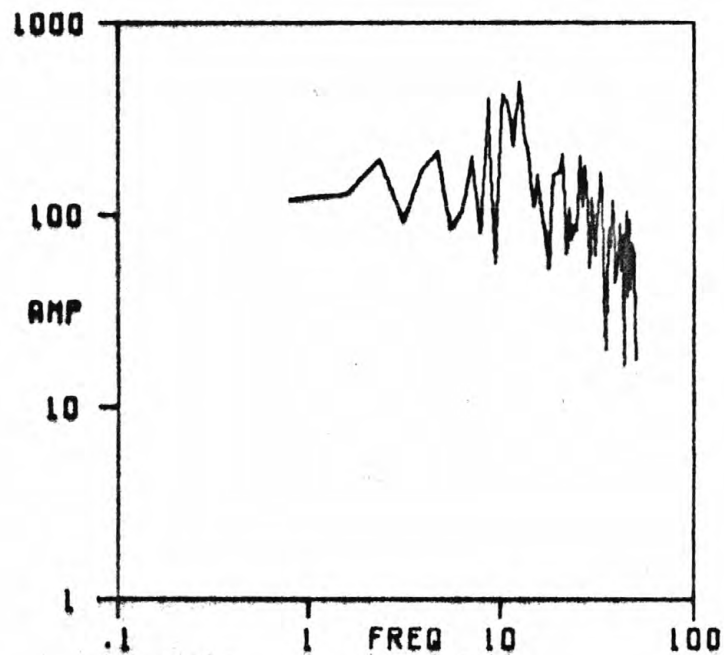
SHOT POINT 1

RECORDER LOCATION 380

DISTANCE FROM SHOT (KM) = -282.243

TSCALE (CM/SEC) = 10.0

101



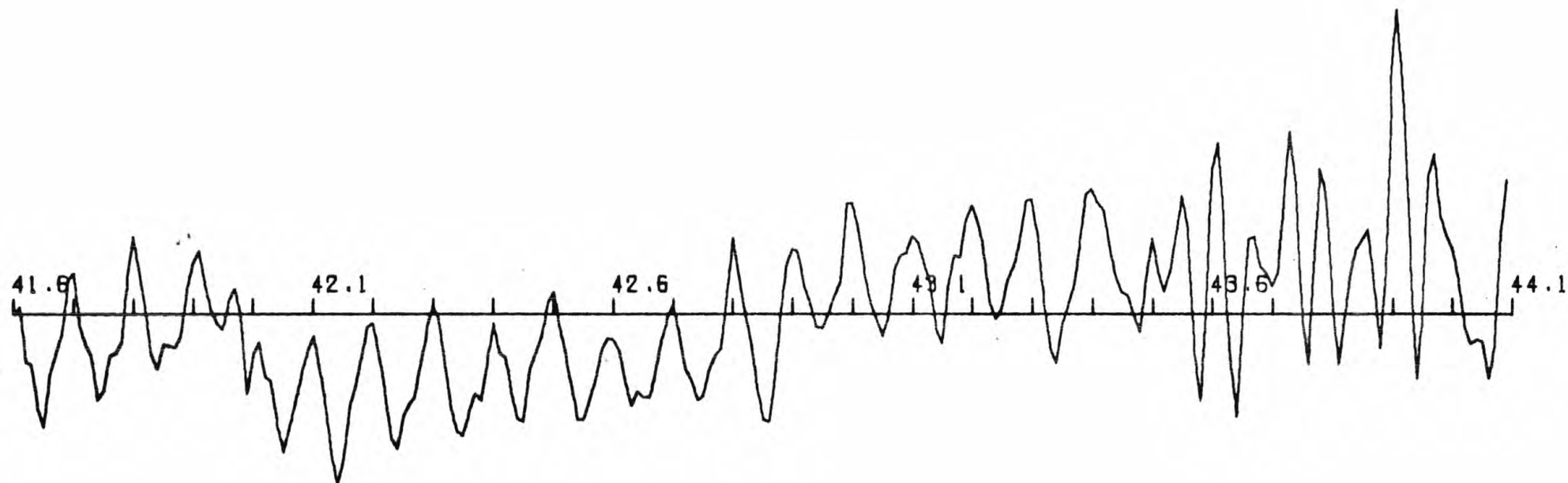
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 1

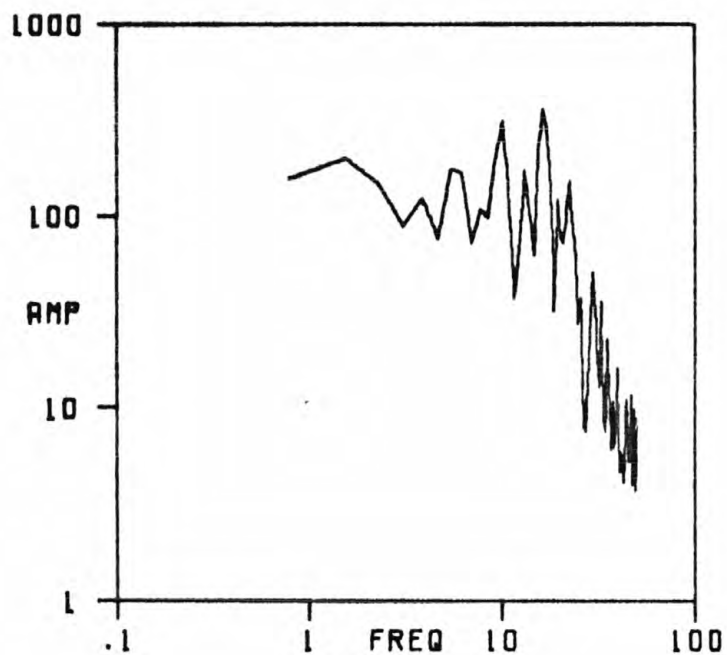
RECORDER LOCATION 381

DISTANCE FROM SHOT (KM) = -284.997

TSCALE (CM/SEC) = 10.0



110



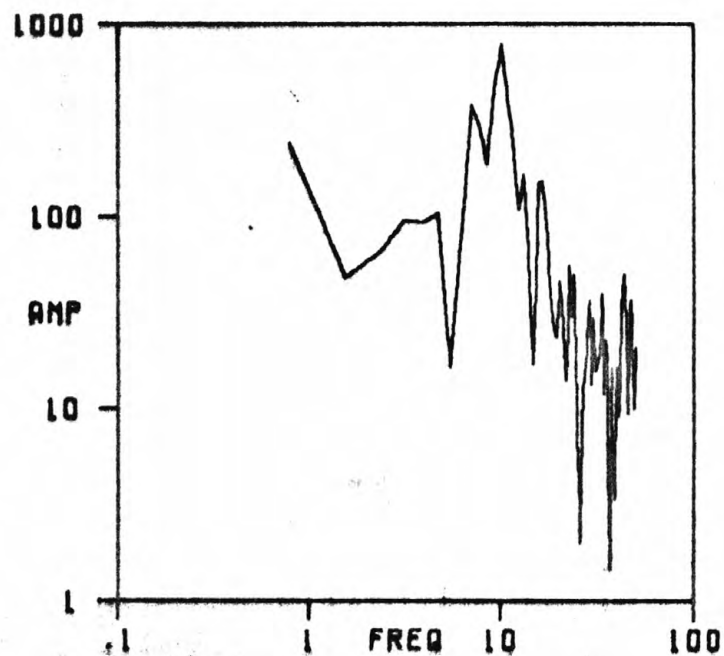
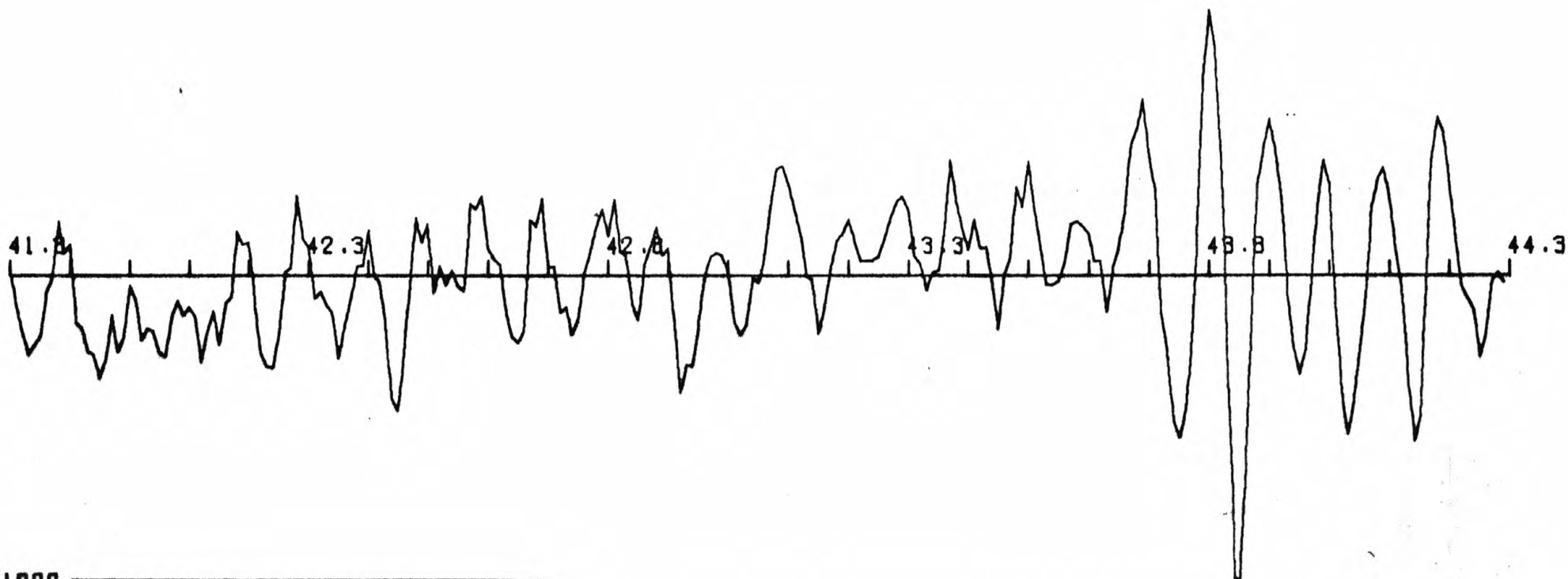
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 1

RECORDER LOCATION 385

DISTANCE FROM SHOT (KM) = -291.250

TSCALE (CM/SEC) = 10.0



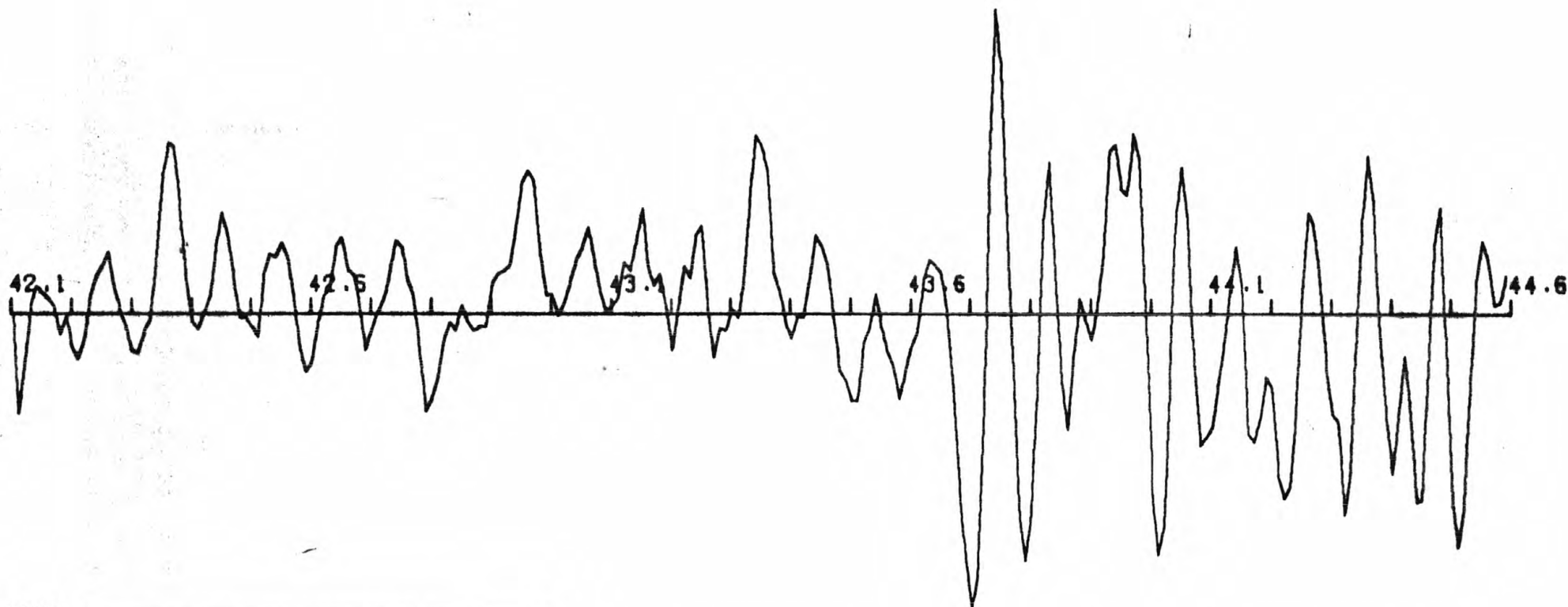
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 1

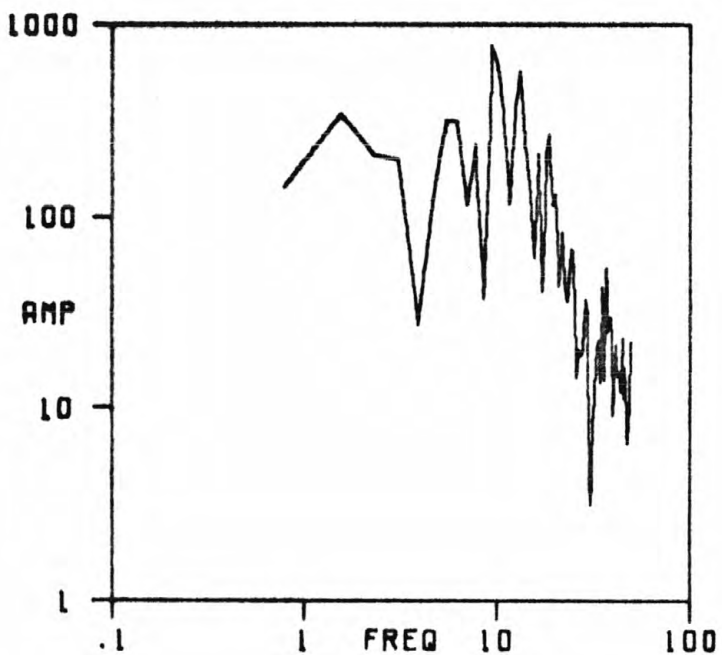
RECORDER LOCATION 386

DISTANCE FROM SHOT (KM) = -292.573

TSCALE (CM/SEC) = 10.0



112



SAUDI REFRACTION PROFILE 15.20 BP

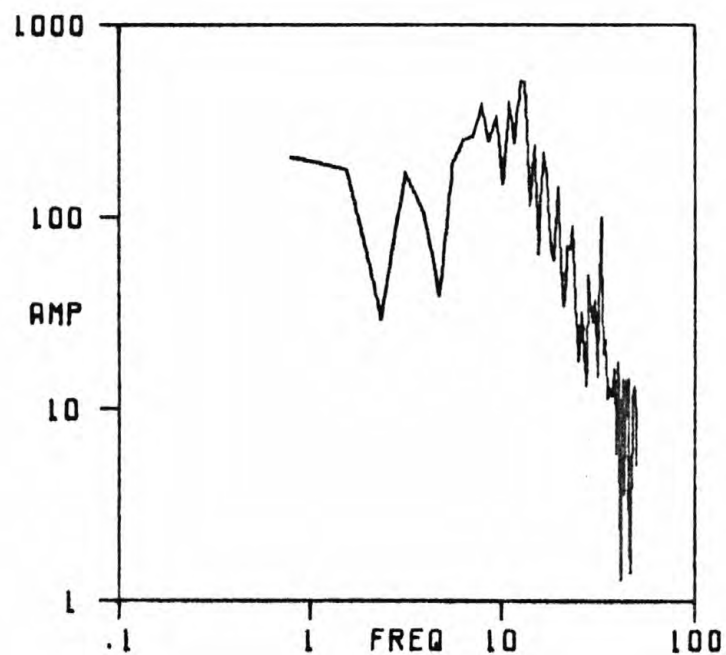
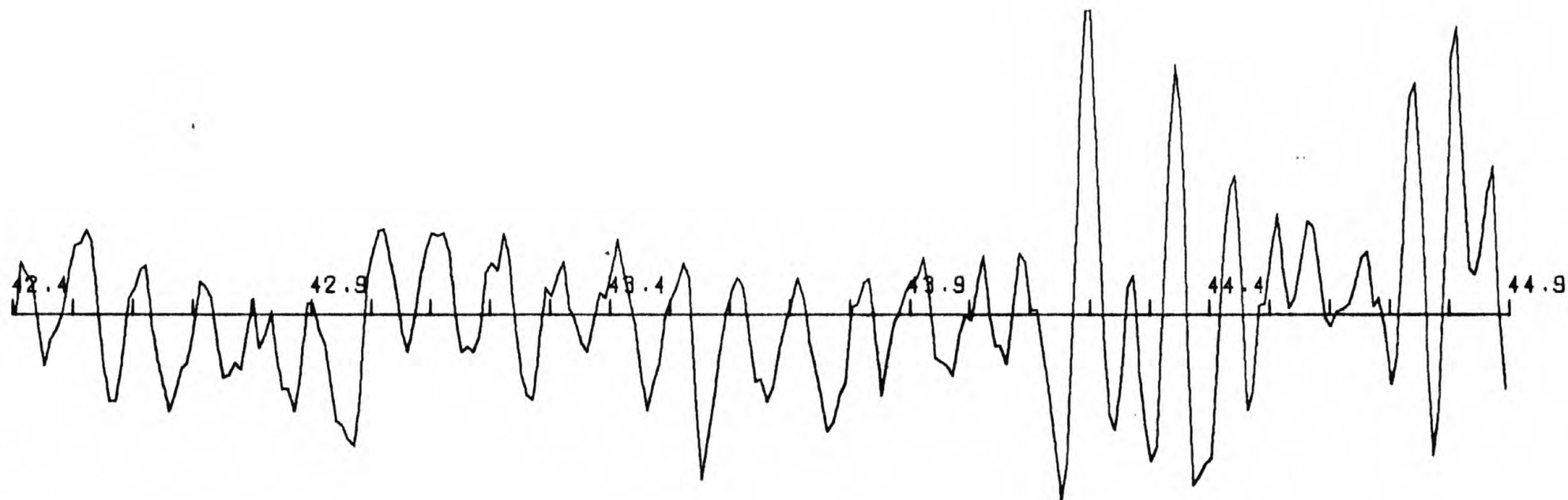
SHOT POINT 1

RECORDER LOCATION 387

DISTANCE FROM SHOT (KM) = -294.324

TSCALE (CM/SEC) = 10.0

113



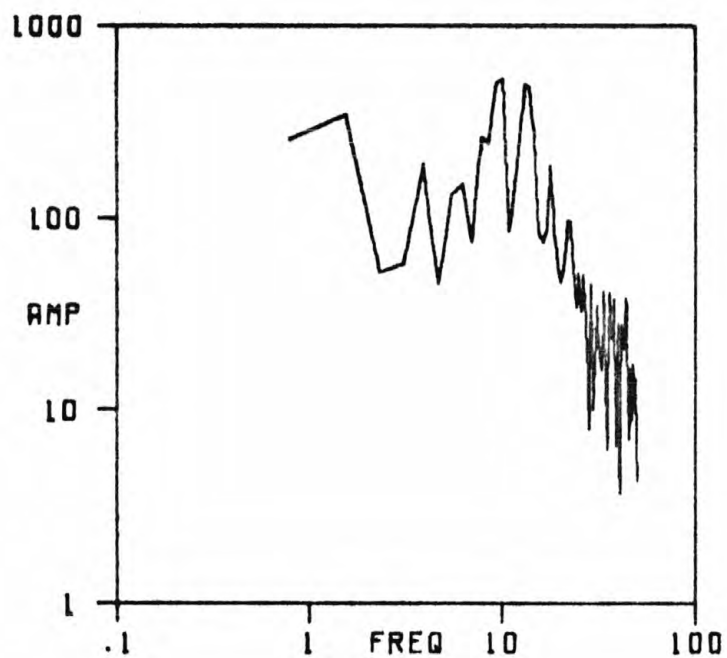
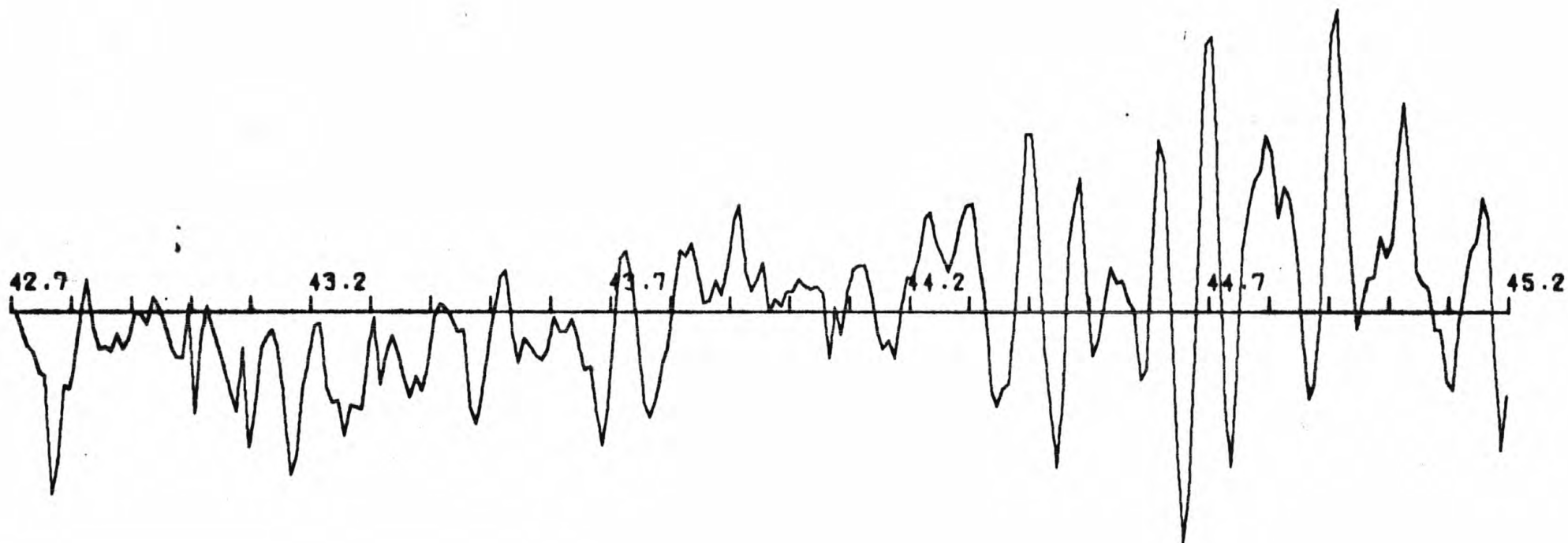
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 1

RECORDER LOCATION 388

DISTANCE FROM SHOT (KM) = -296.307

TSCALE (CM/SEC) = 10.0



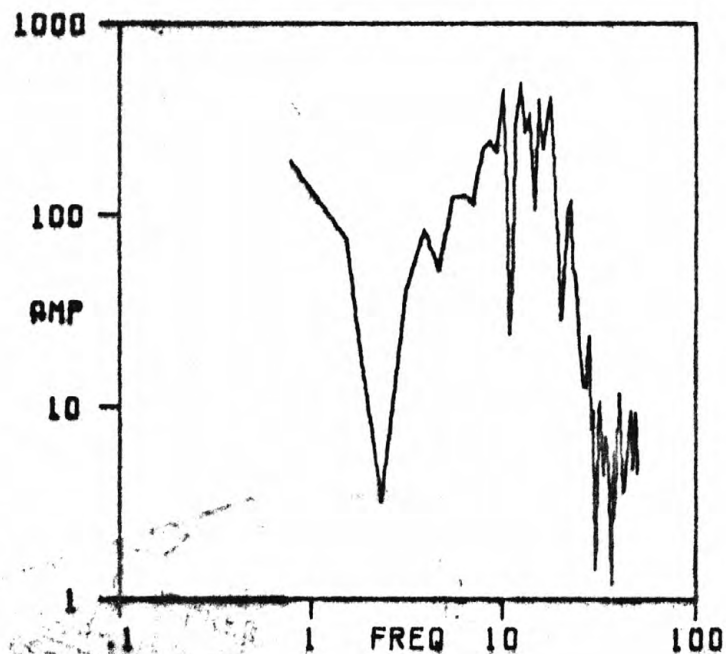
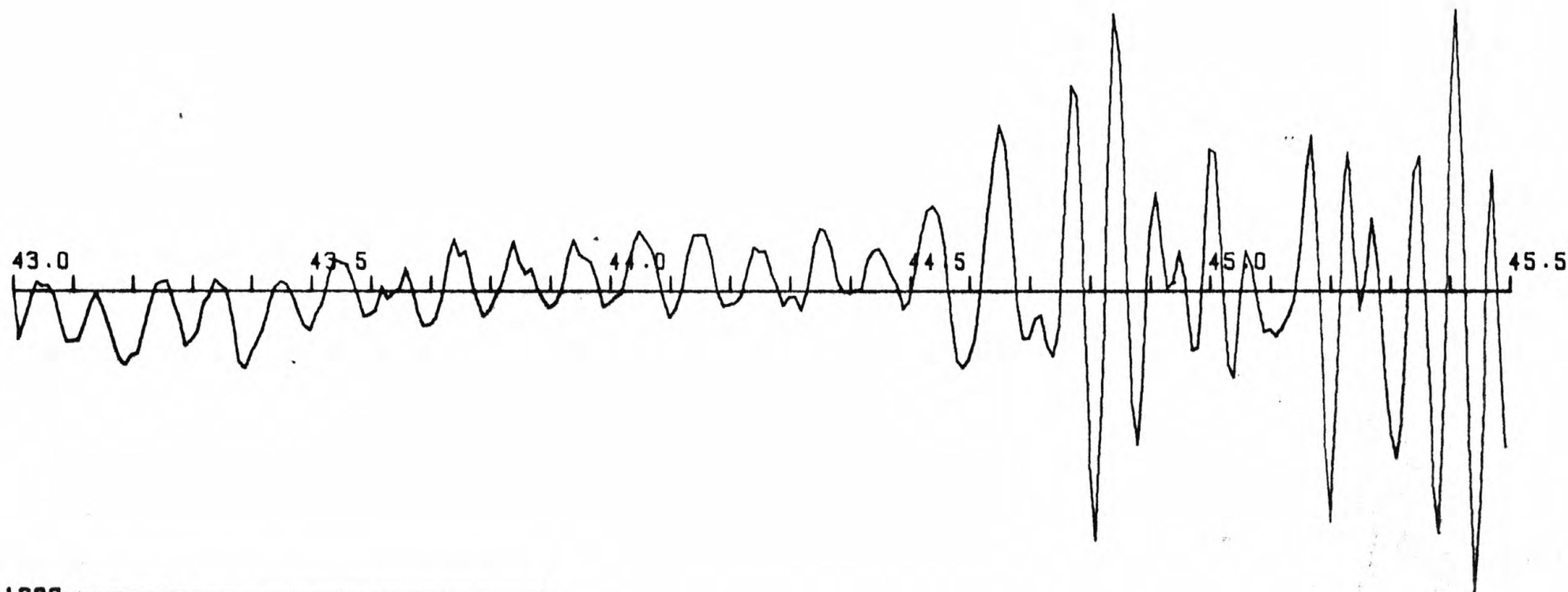
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 1

RECORDER LOCATION 389

DISTANCE FROM SHOT (KM) = -297.947

TSCALE (CM/SEC) = 10.0



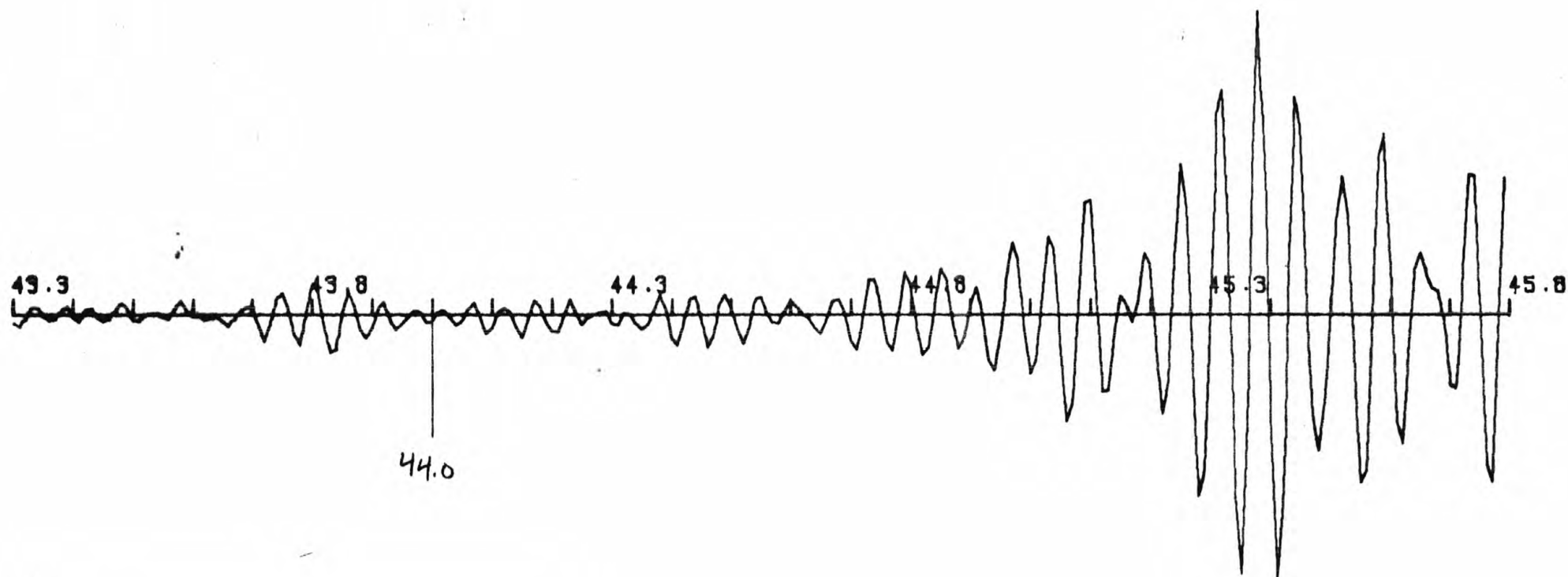
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 1

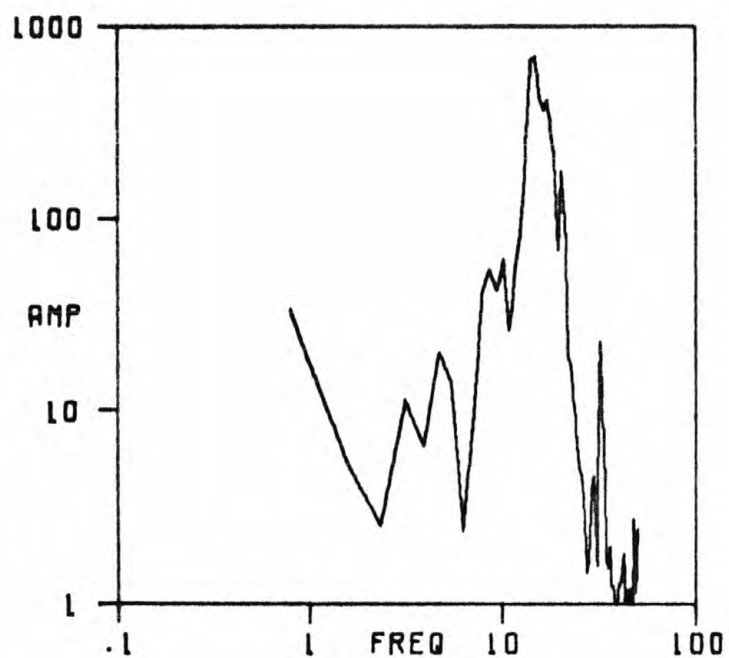
RECORDER LOCATION 390

DISTANCE FROM SHOT (KM) = -299.761

TSCALE (CM/SEC) = 10.0



911



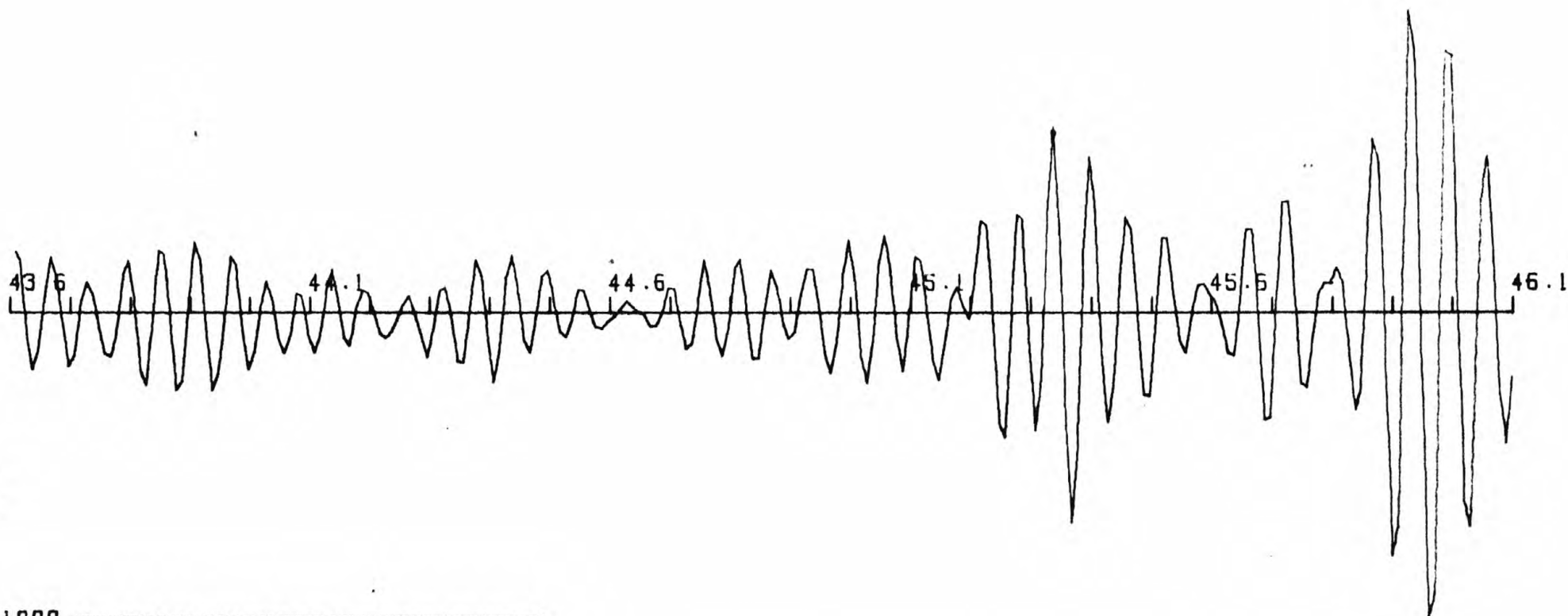
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 1

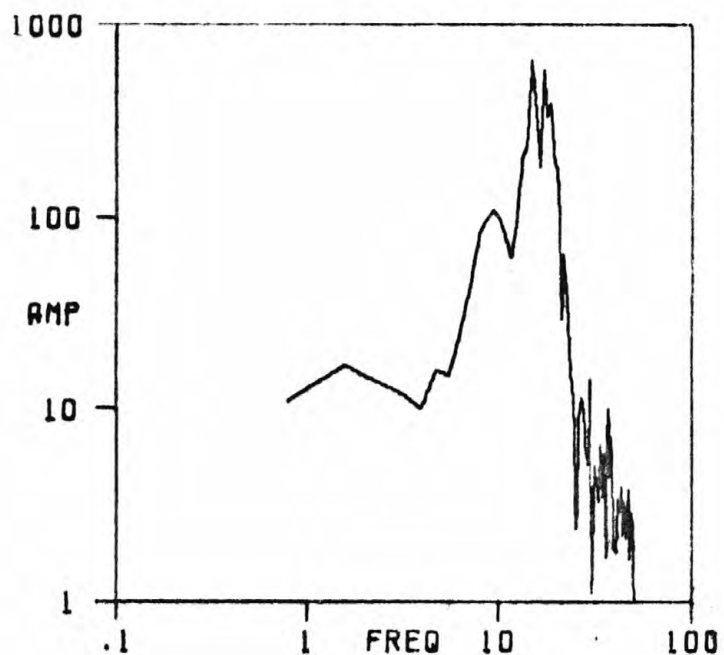
RECORDER LOCATION 392

DISTANCE FROM SHOT (KM) = -301.693

TSCALE (CM/SEC) = 10.0



117



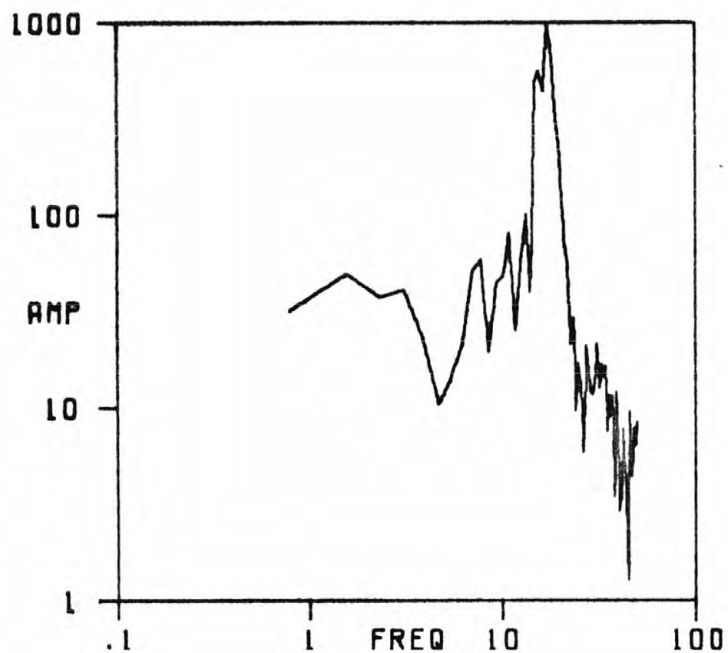
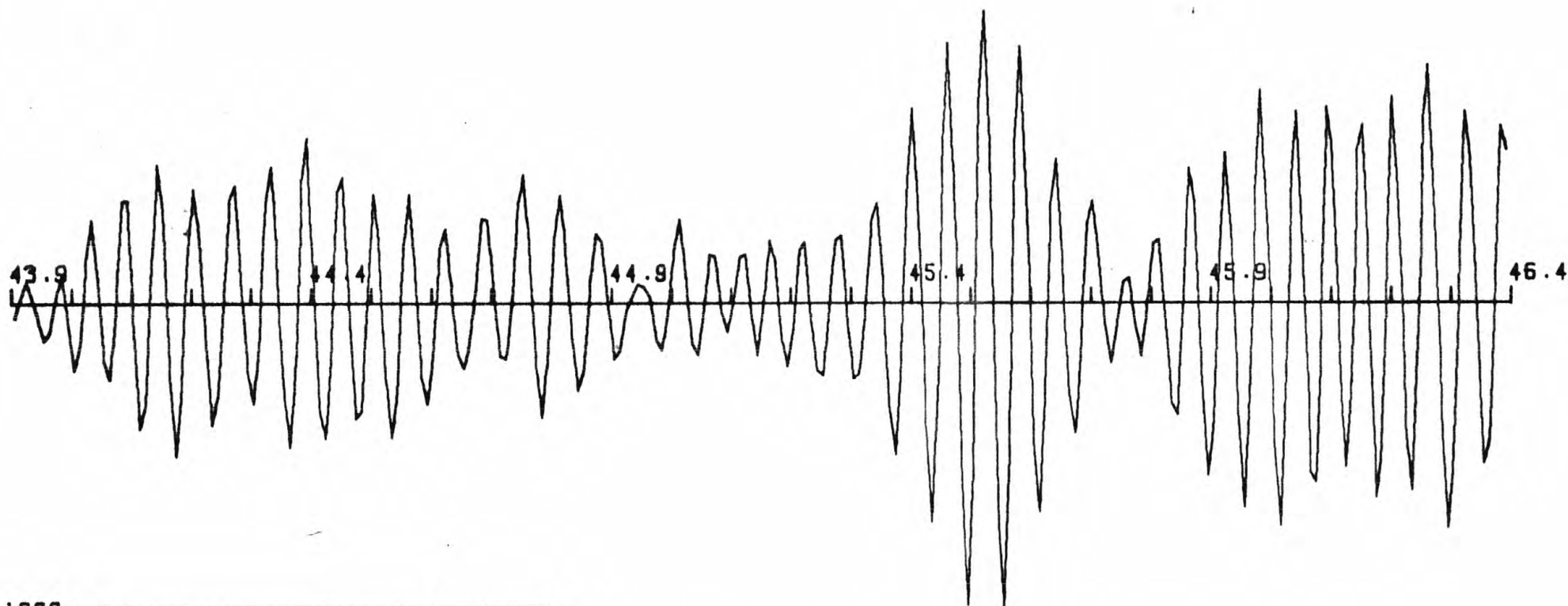
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 1

RECORDER LOCATION 393

DISTANCE FROM SHOT (KM) = -303.294

TSCALE (CM/SEC) = 10.0



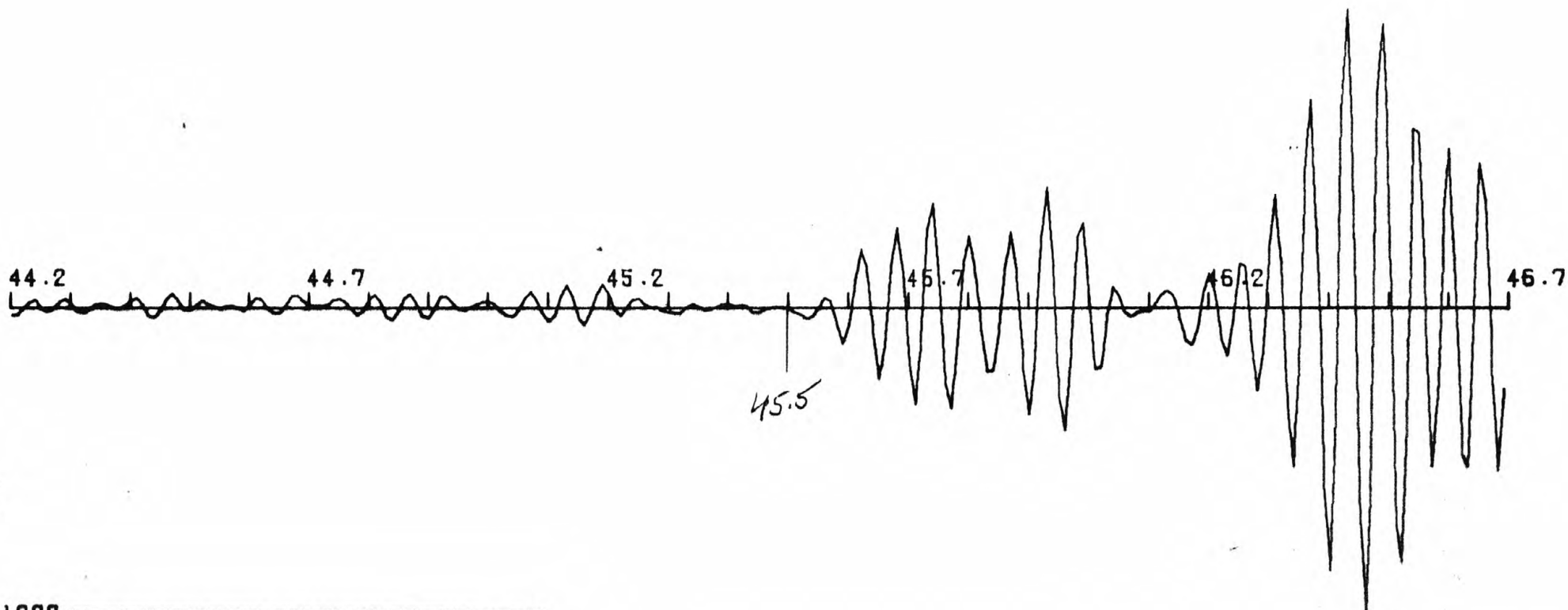
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 1

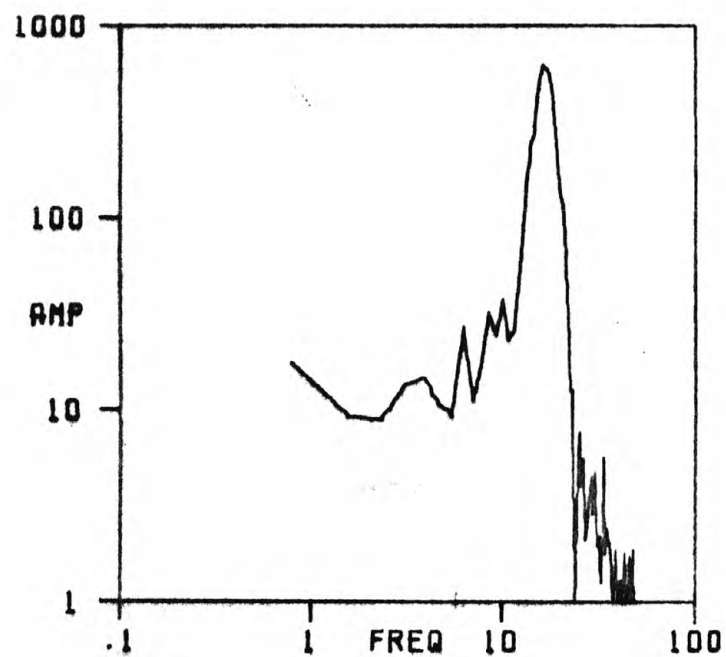
RECORDER LOCATION 394

DISTANCE FROM SHOT (KM) = -305.314

TSCALE (CM/SEC) = 10.0



119



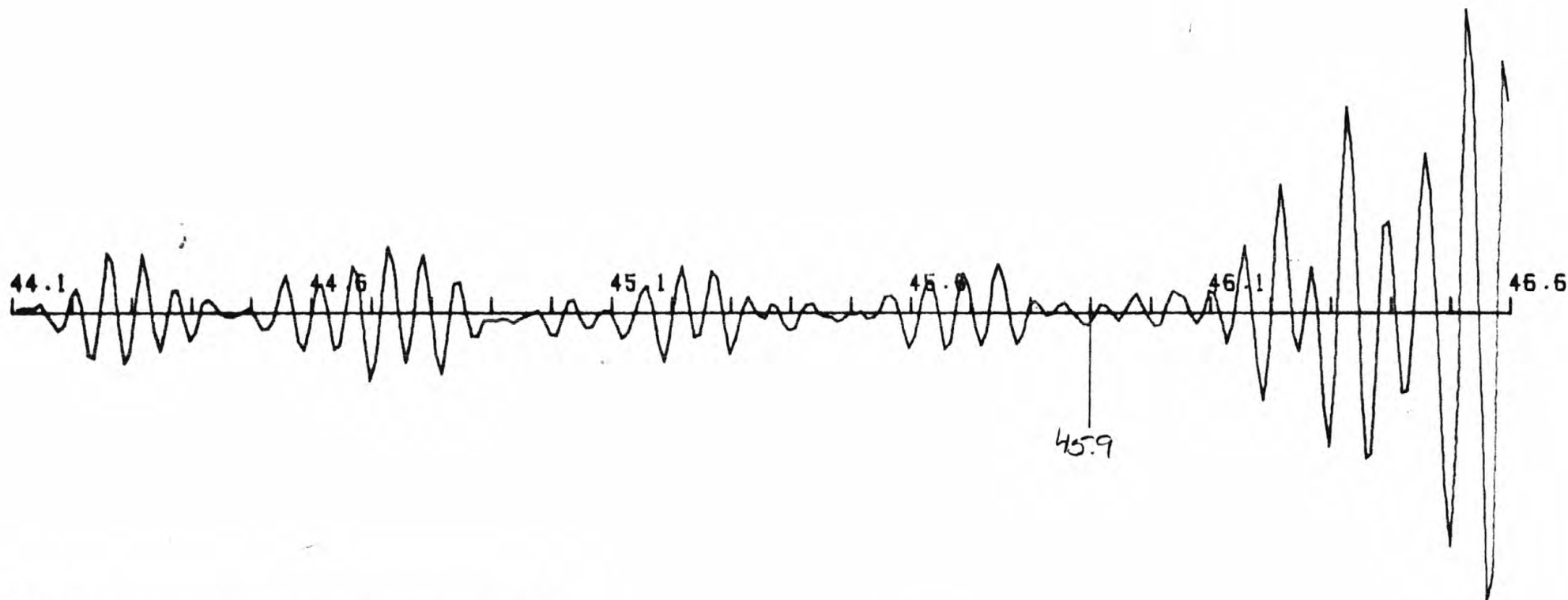
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 1

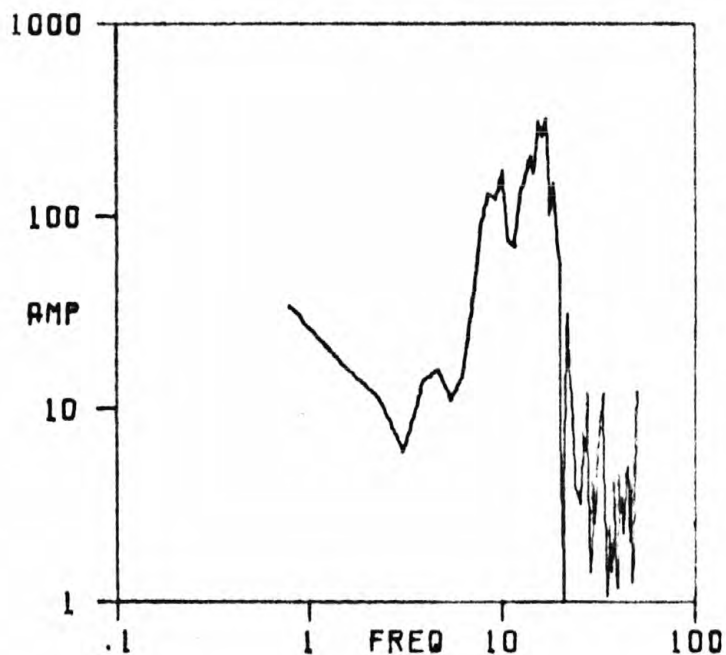
RECORDER LOCATION 395

DISTANCE FROM SHOT (KM) = -307.102

TS SCALE (CM/SEC) = 10.0



120



SAUDI REFRACTION PROFILE 15.20 BP

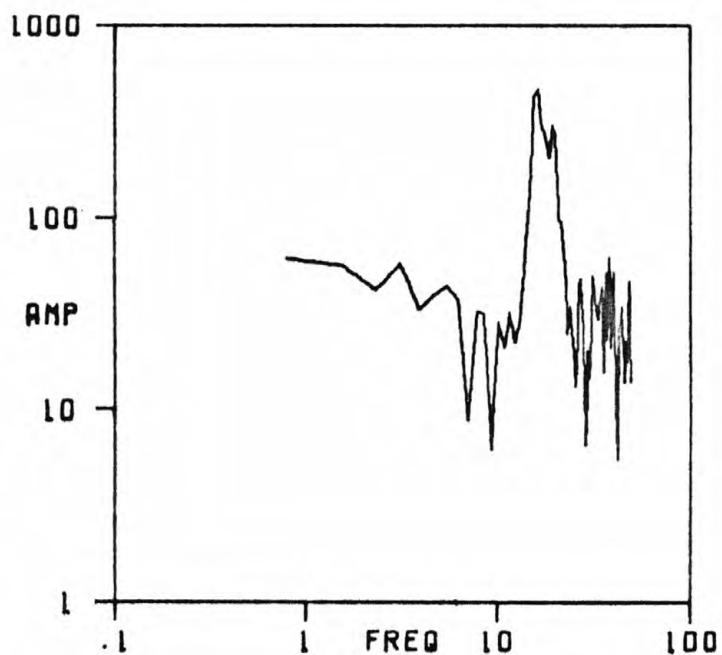
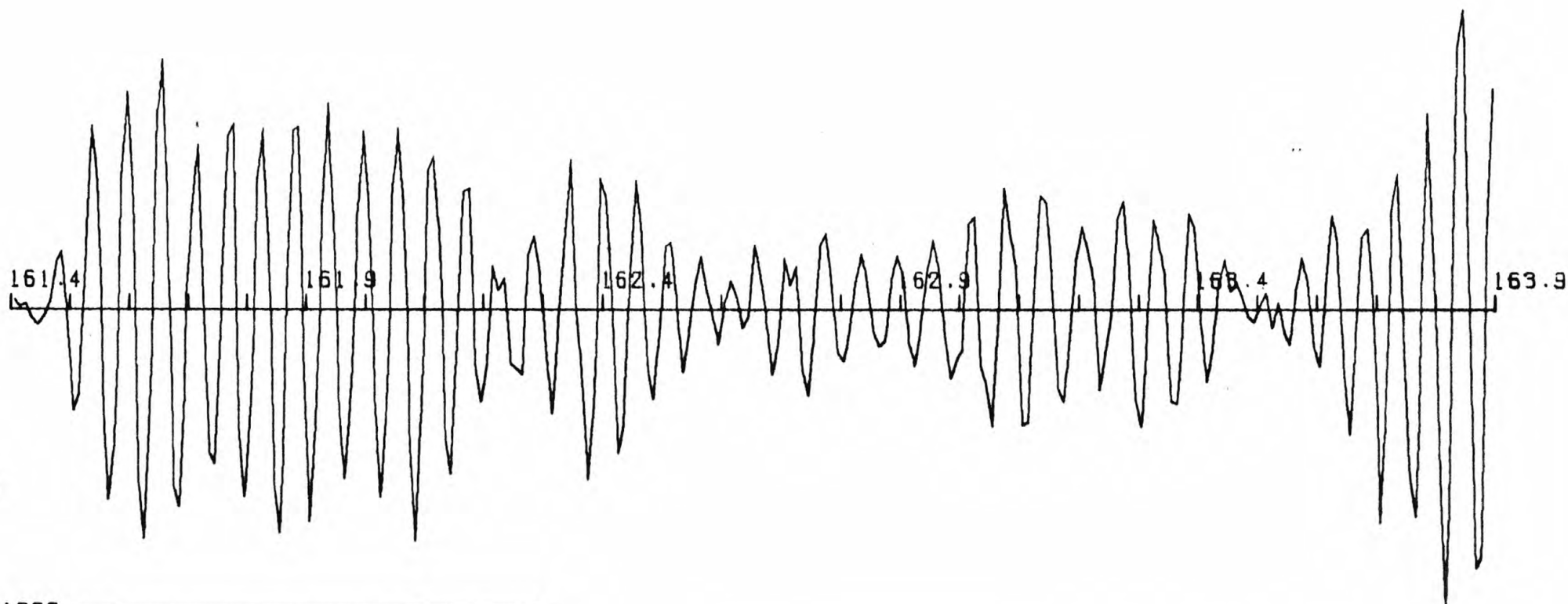
SHOT POINT 1

RECORDER LOCATION 398

DISTANCE FROM SHOT (KM) = -912.416

TSCALE (CM/SEC) = 10.0

121



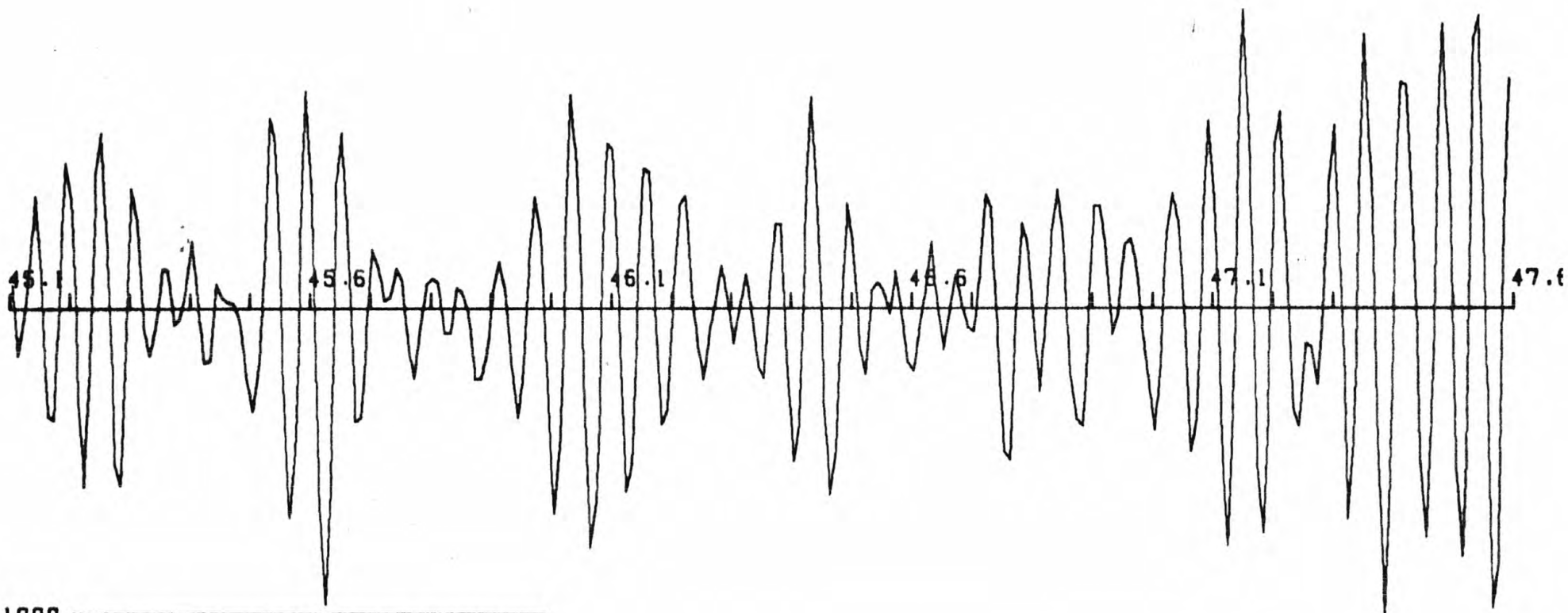
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 1

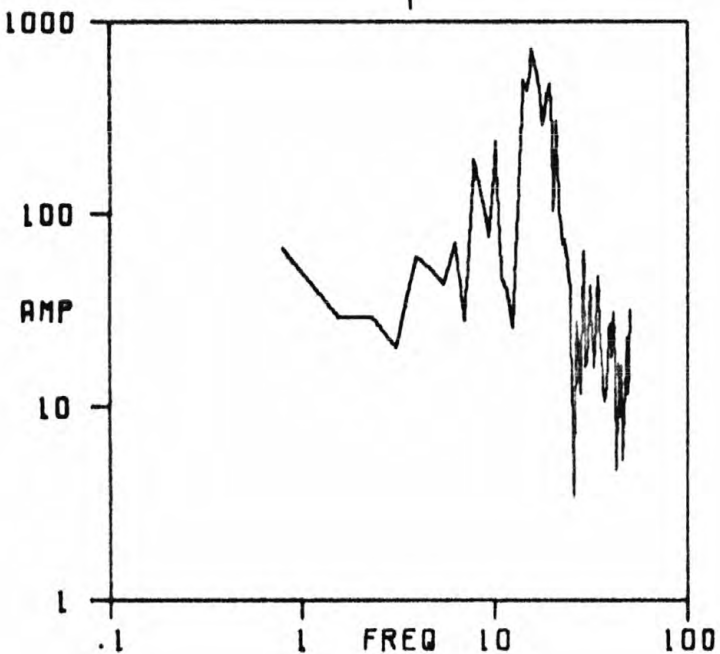
RECORDER LOCATION 399

DISTANCE FROM SHOT (KM) = -913.965

TSCALE (CM/SEC) = 10.0



122



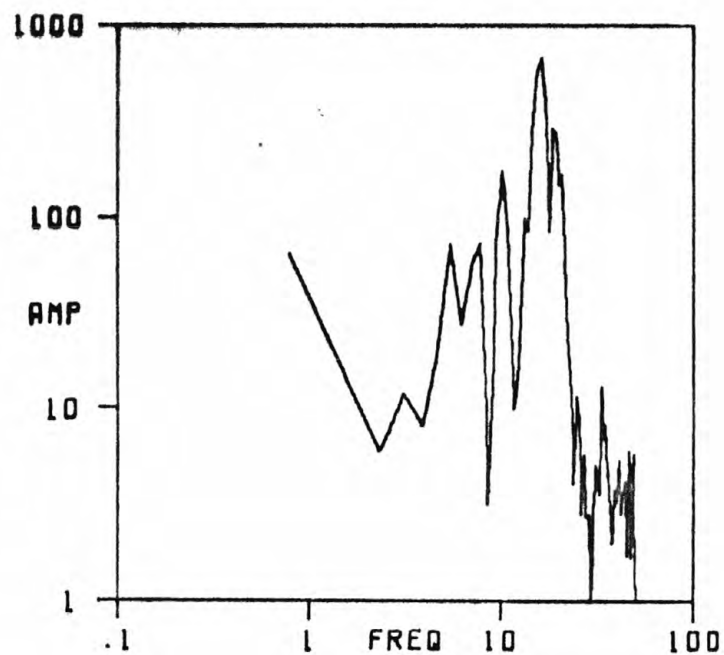
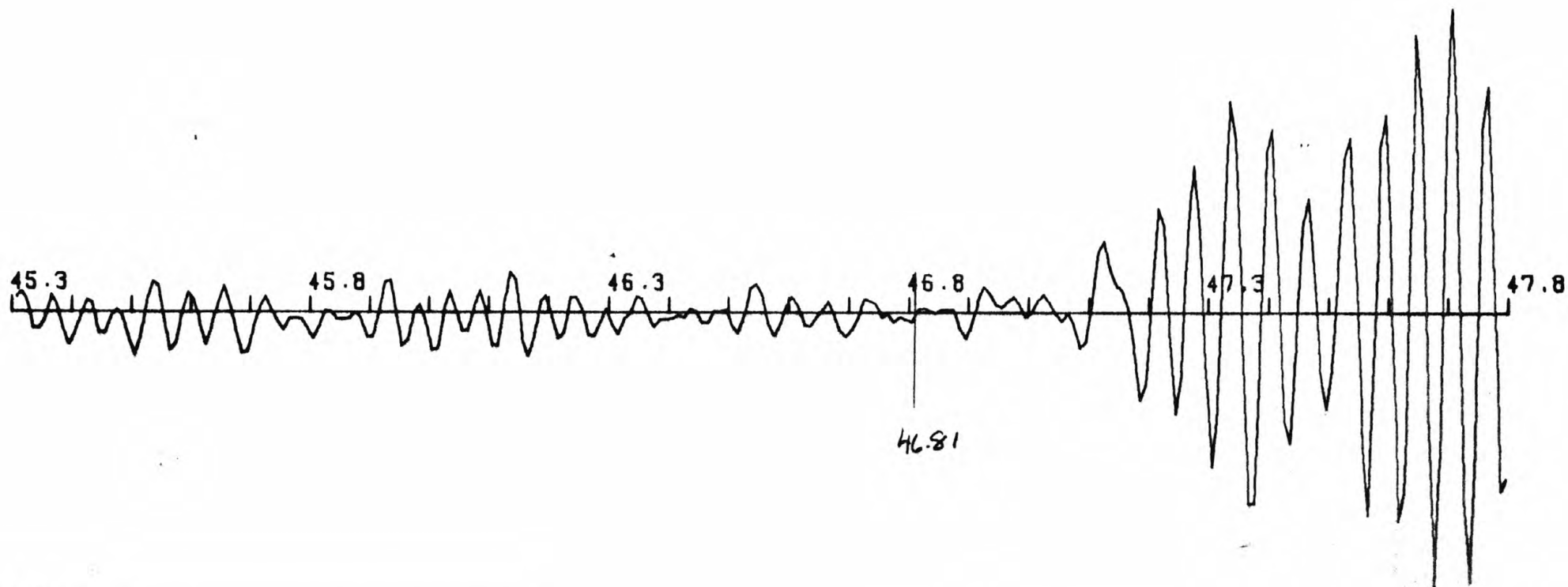
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 1

RECORDER LOCATION 401

DISTANCE FROM SHOT (KM) = -318.154

TSCALE (CM/SEC) = 10.0



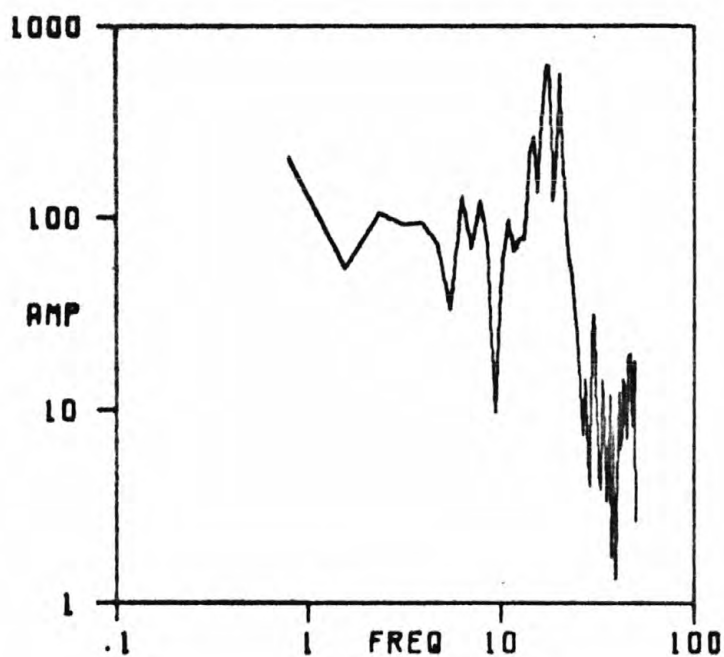
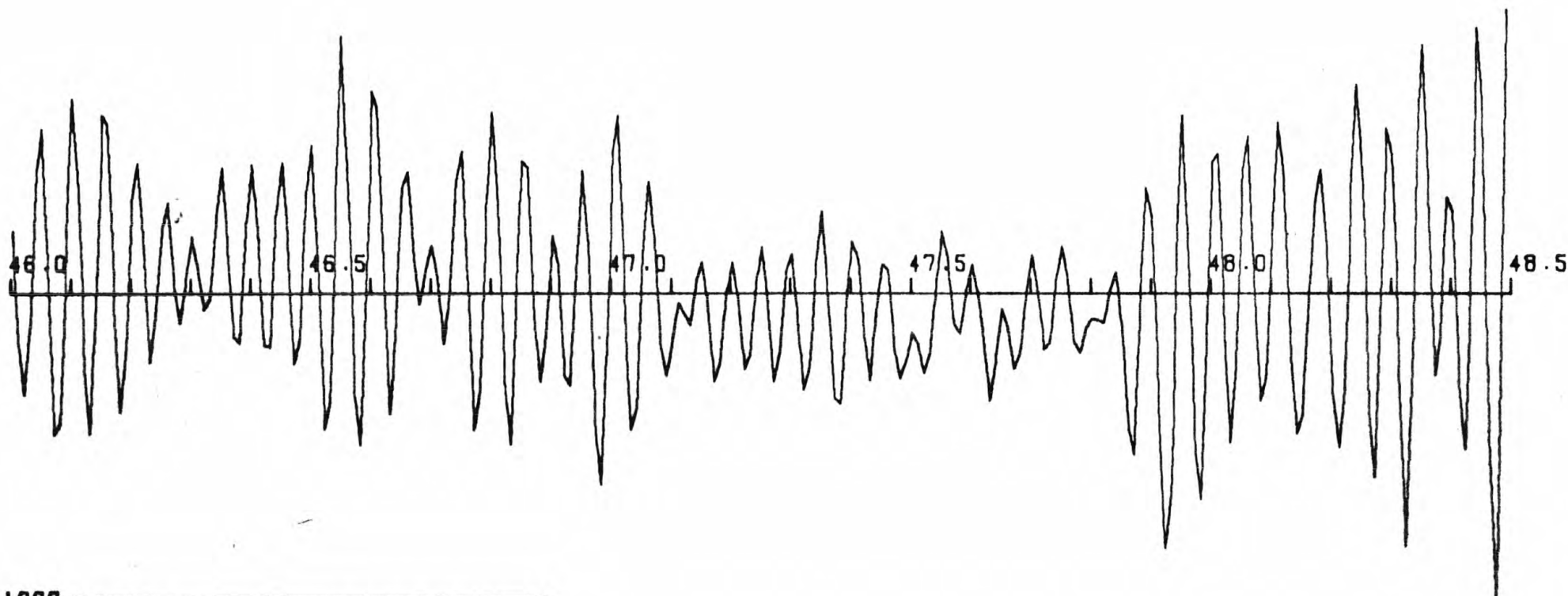
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 1

RECORDER LOCATION 402

DISTANCE FROM SHOT (KM) = -319.607

TSCALE (CM/SEC) = 10.0



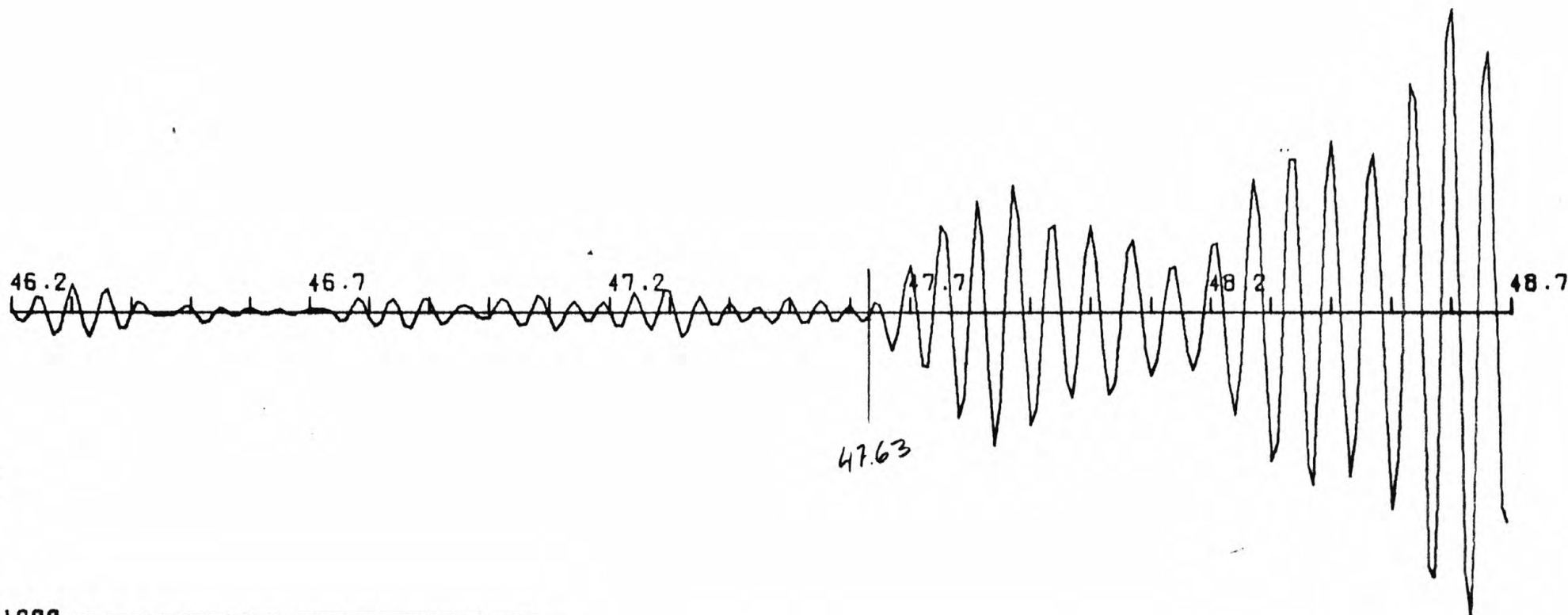
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 1

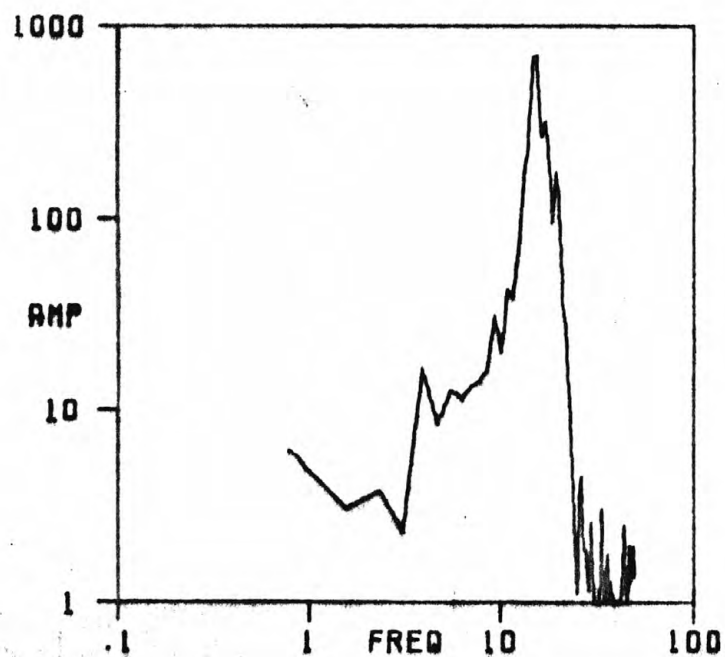
RECORDER LOCATION 404

DISTANCE FROM SHOT (KM) = -323.426

TSCALE (CM/SEC) = 10.0



125



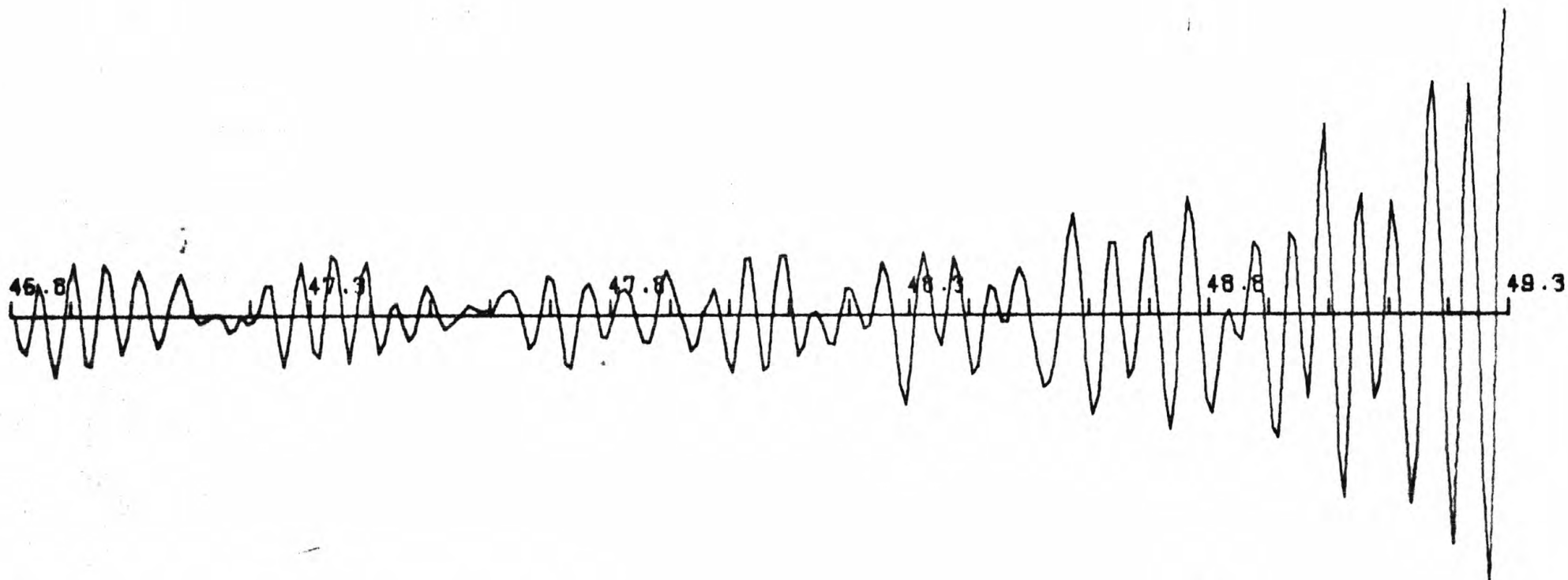
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 1

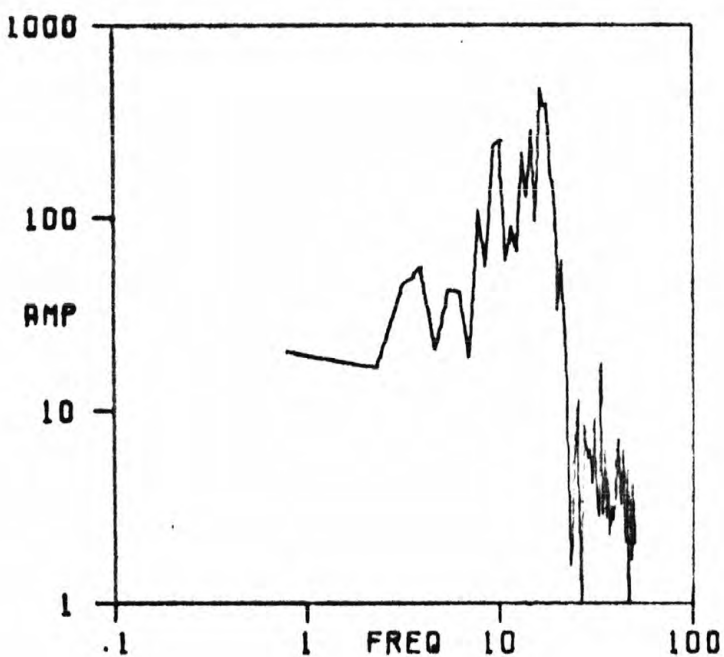
RECORDER LOCATION 405

DISTANCE FROM SHOT (KM) = -325.036

TSCALE (CM/SEC) = 10.0



126



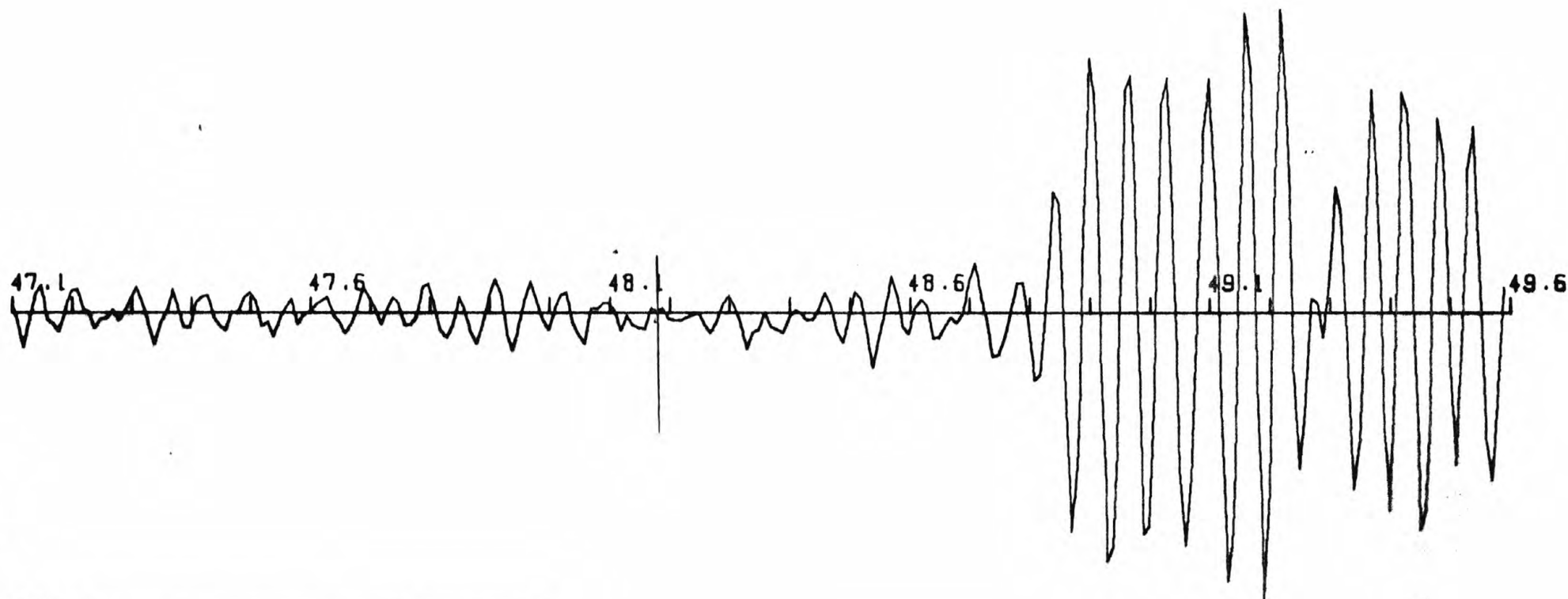
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 1

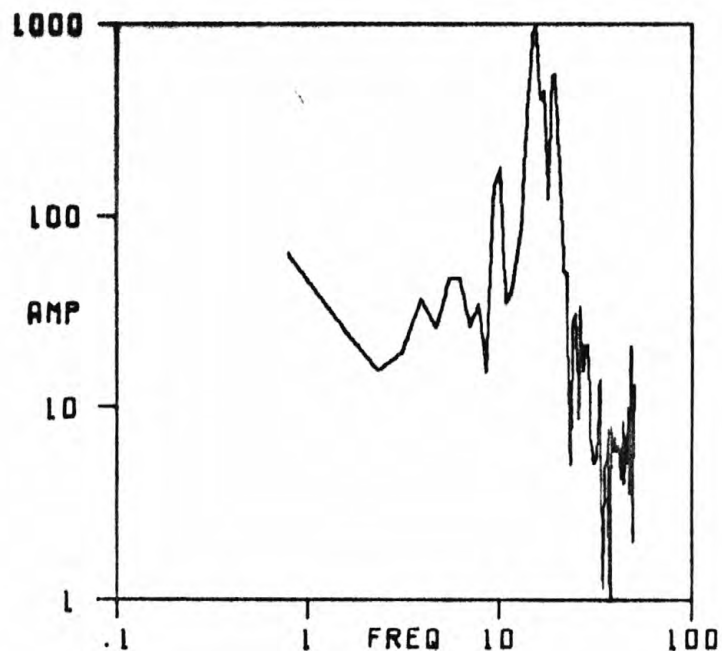
RECORDER LOCATION 407

DISTANCE FROM SHOT (KM) = -328.421

TSCALE (CM/SEC) = 10.0



127



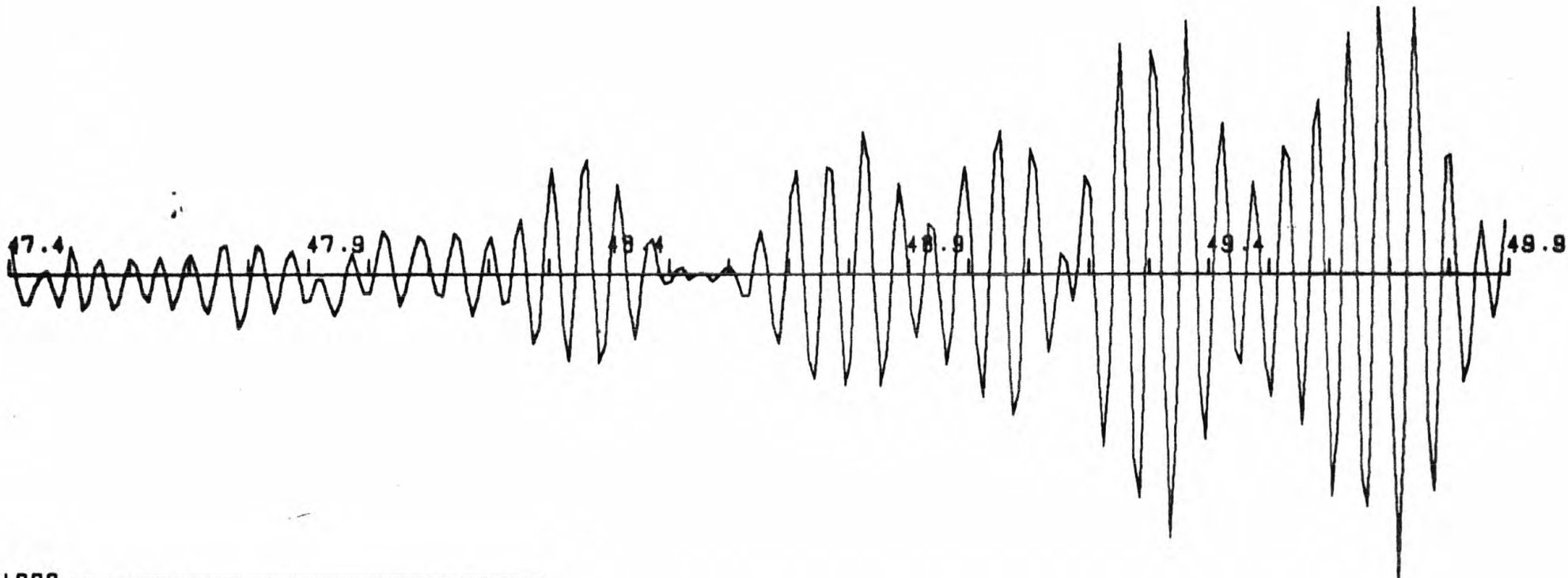
SAUDI REFRACTION PROFILE 15.20 BP.

SHOT POINT 1

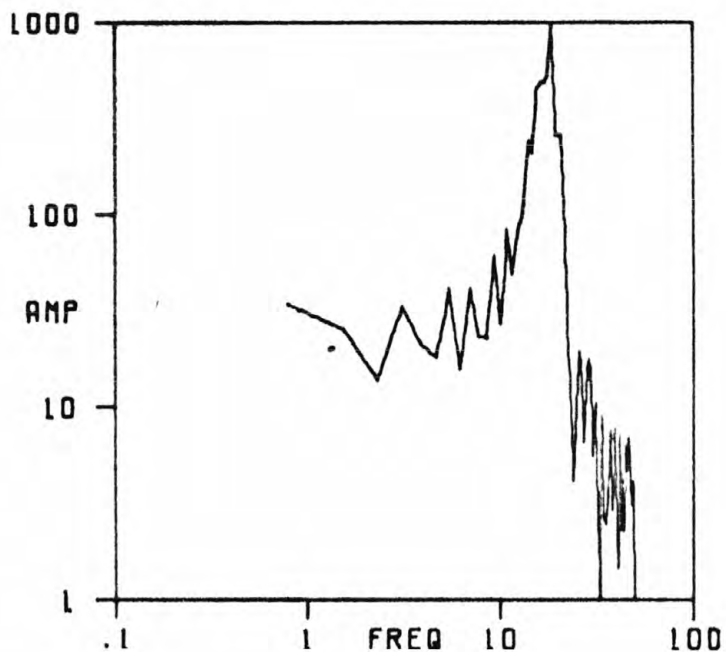
RECORDER LOCATION 408

DISTANCE FROM SHOT (KM) = -330.544

TSCALE (CM/SEC) = 10.0



128



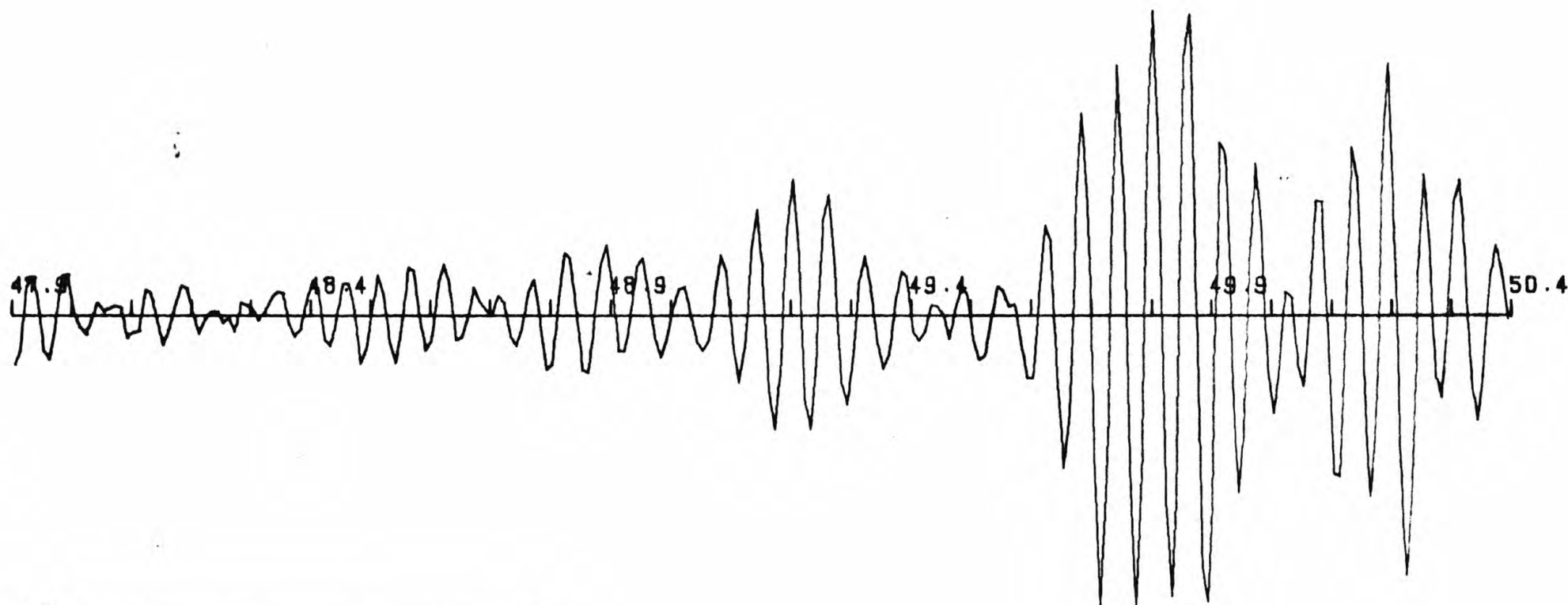
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 1

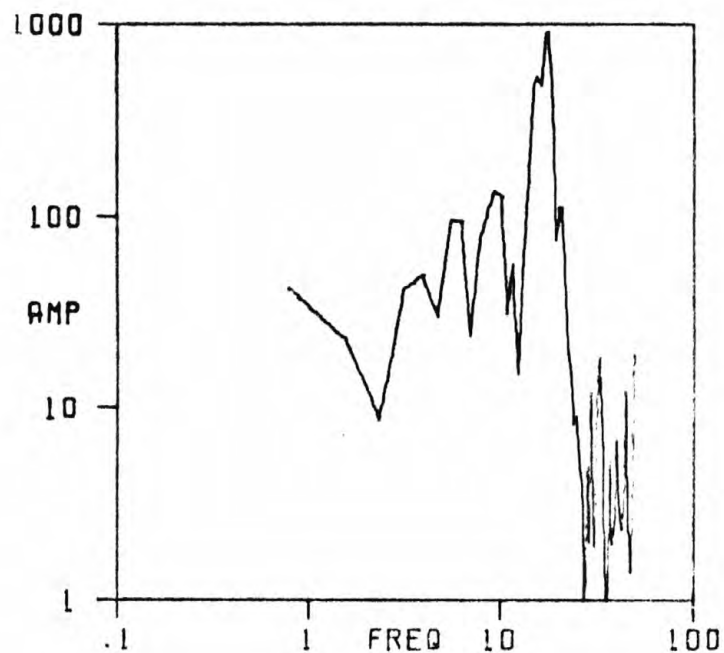
RECORDER LOCATION 409

DISTANCE FROM SHOT (KM) = -332.372

TSCALE (CM/SEC) = 10.0



129



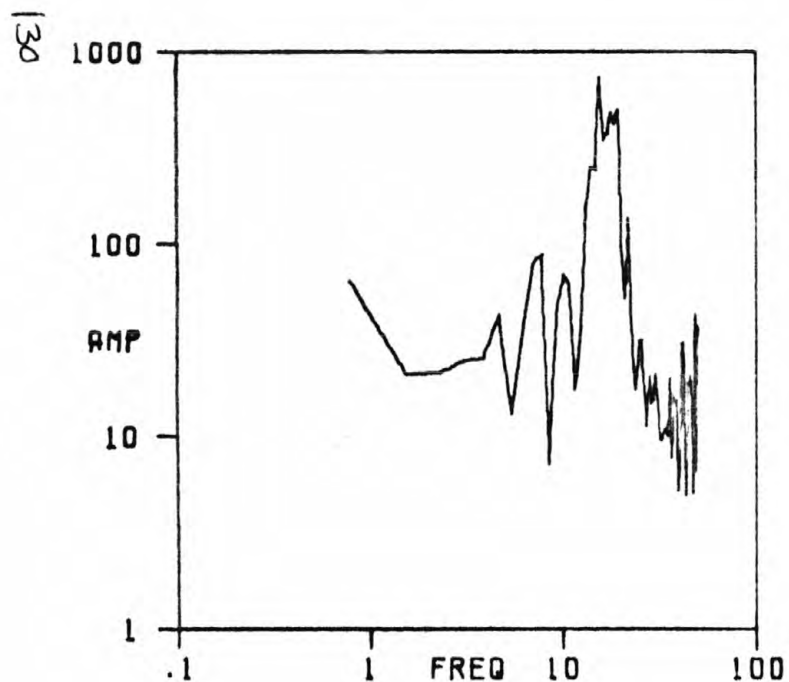
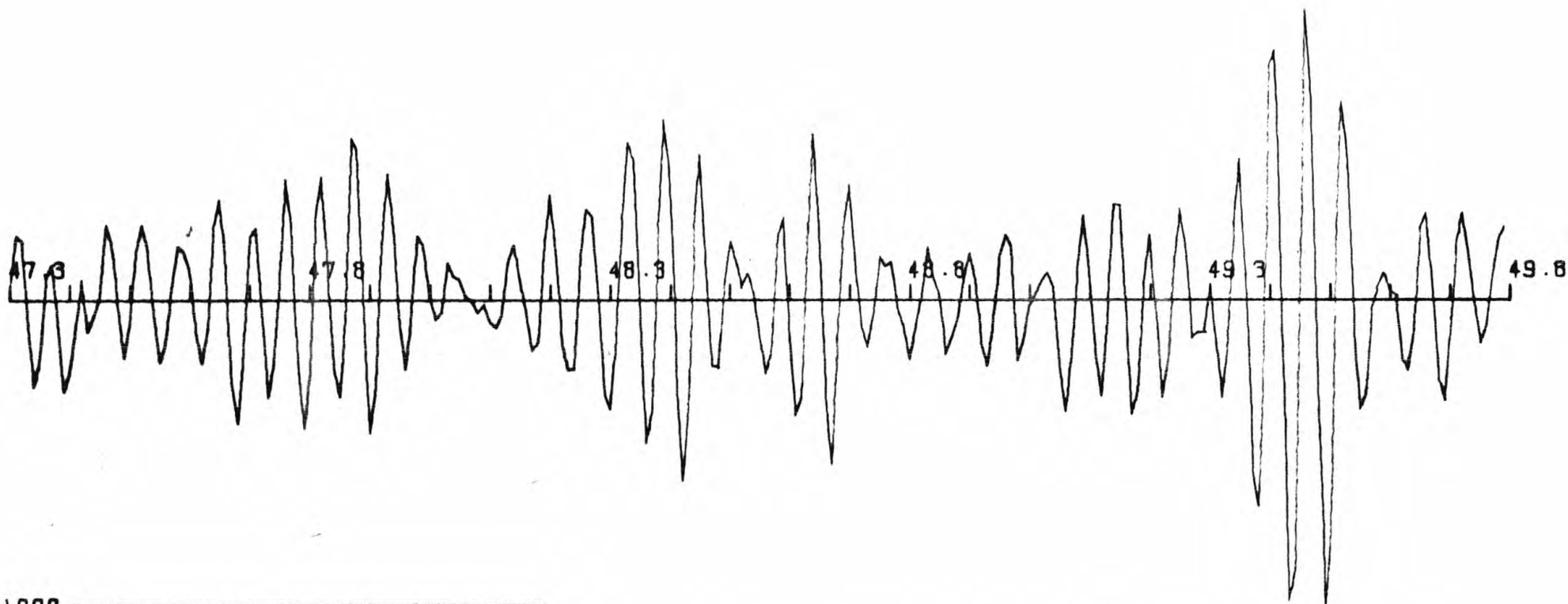
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 1

RECORDER LOCATION 411

DISTANCE FROM SHOT (KM) = -335.195

TSCALE (CM/SEC) = 10.0



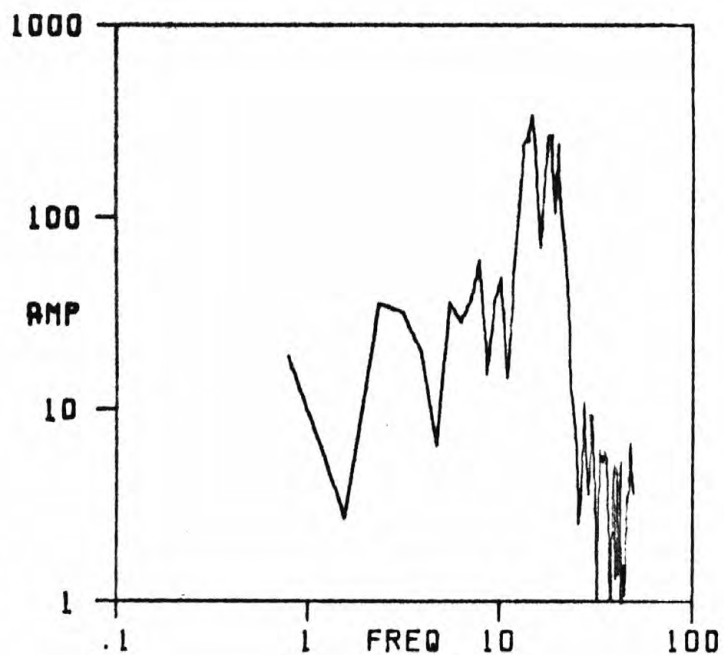
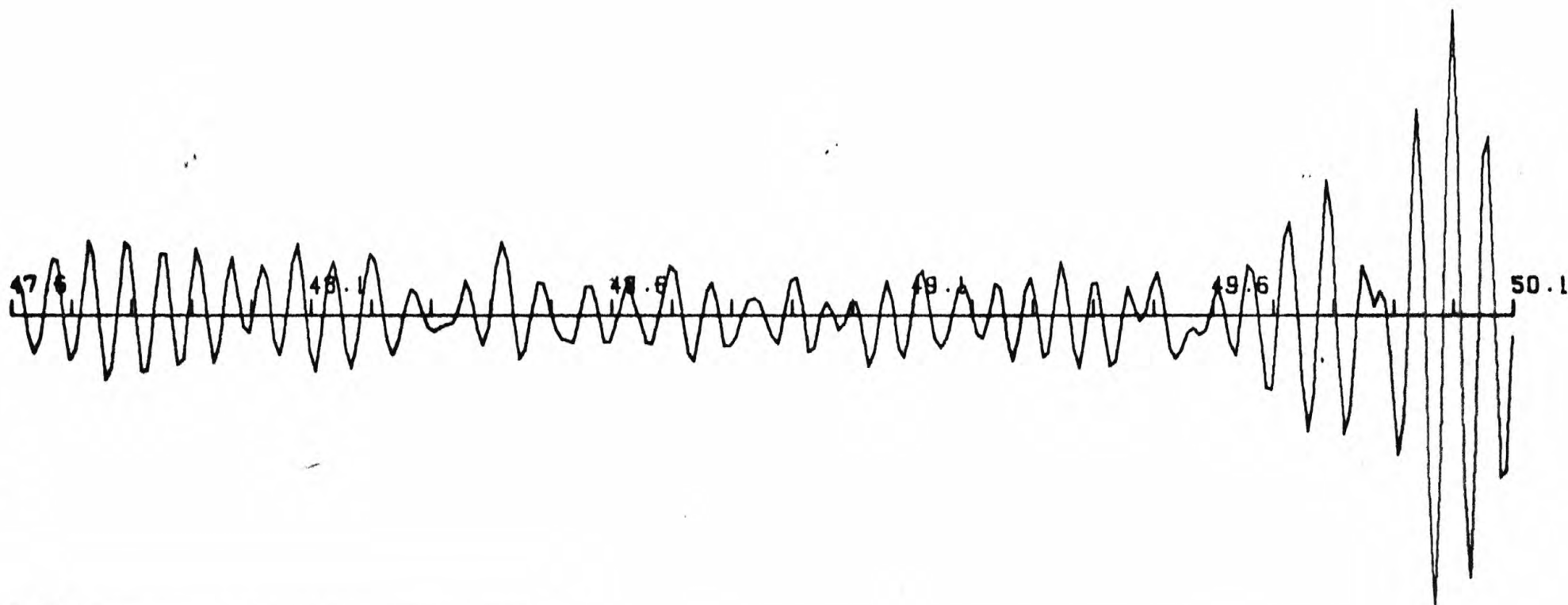
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 1

RECORDER LOCATION 412

DISTANCE FROM SHOT (KM) = -337.270

TSCALE (CM/SEC) = 10.0



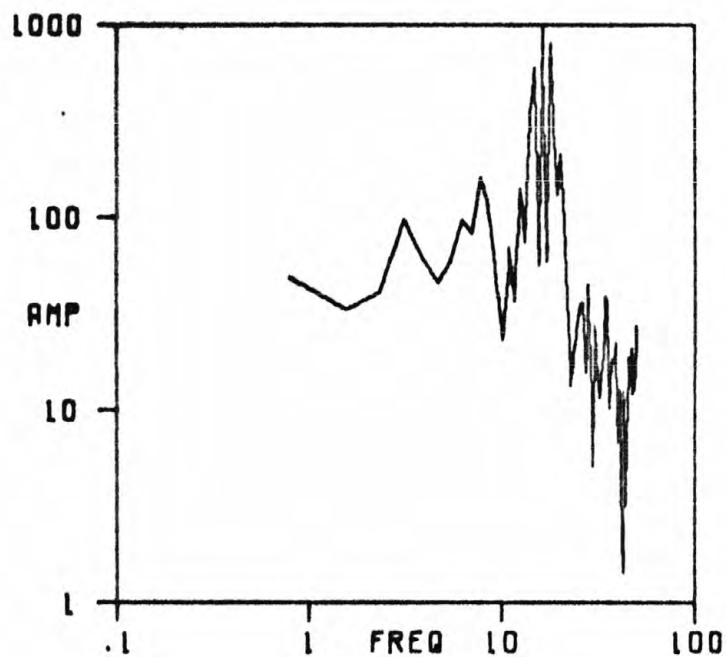
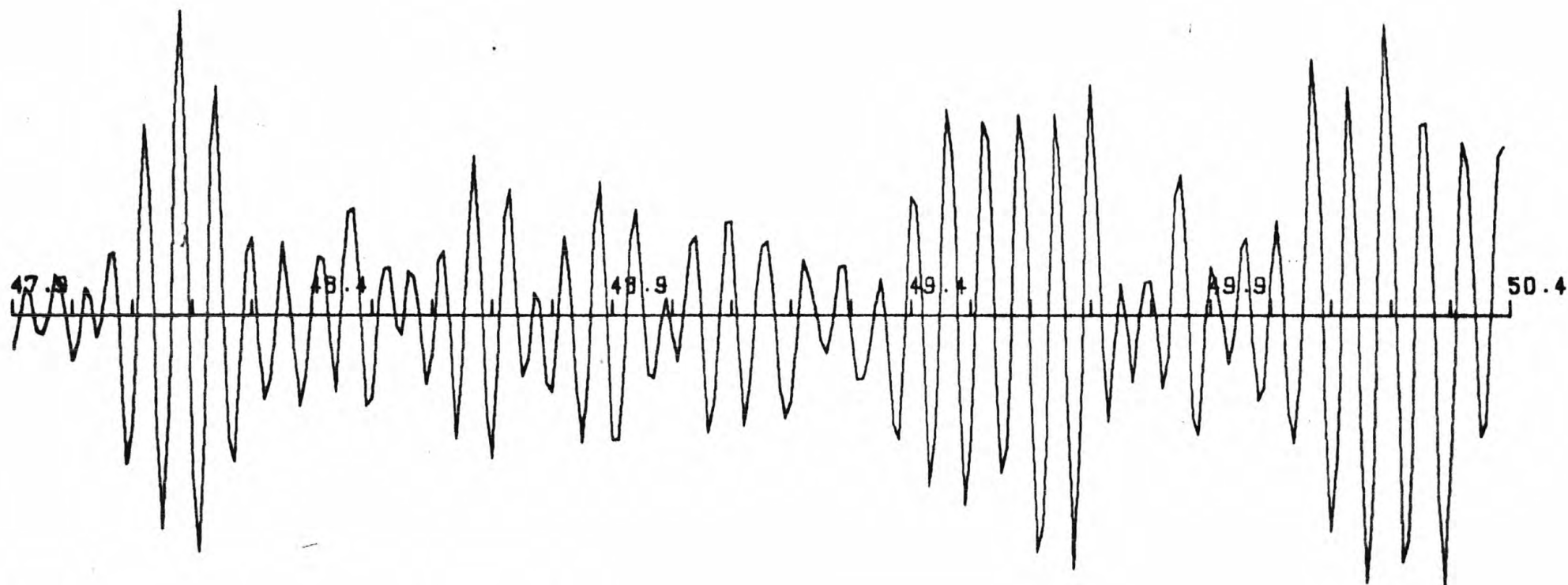
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 1

RECORDER LOCATION 413

DISTANCE FROM SHOT (KM) = -939.417

TSCALE (CM/SEC) = 10.0



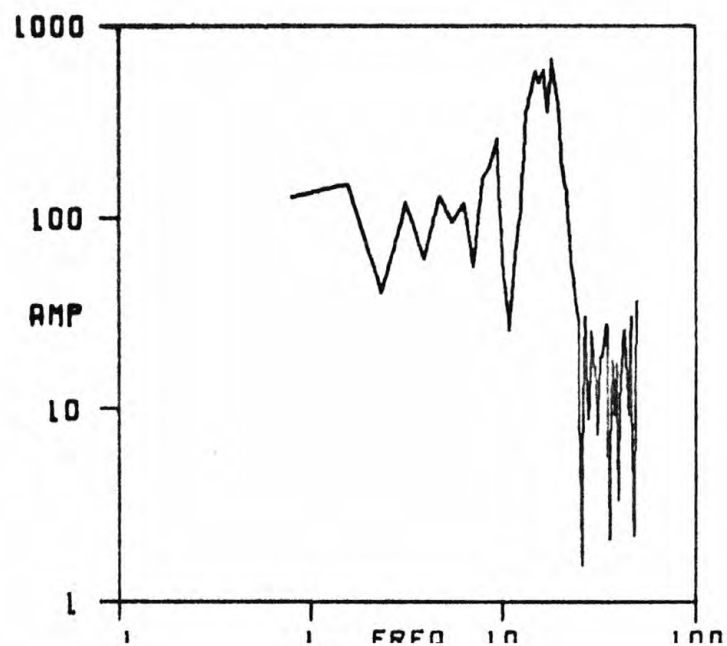
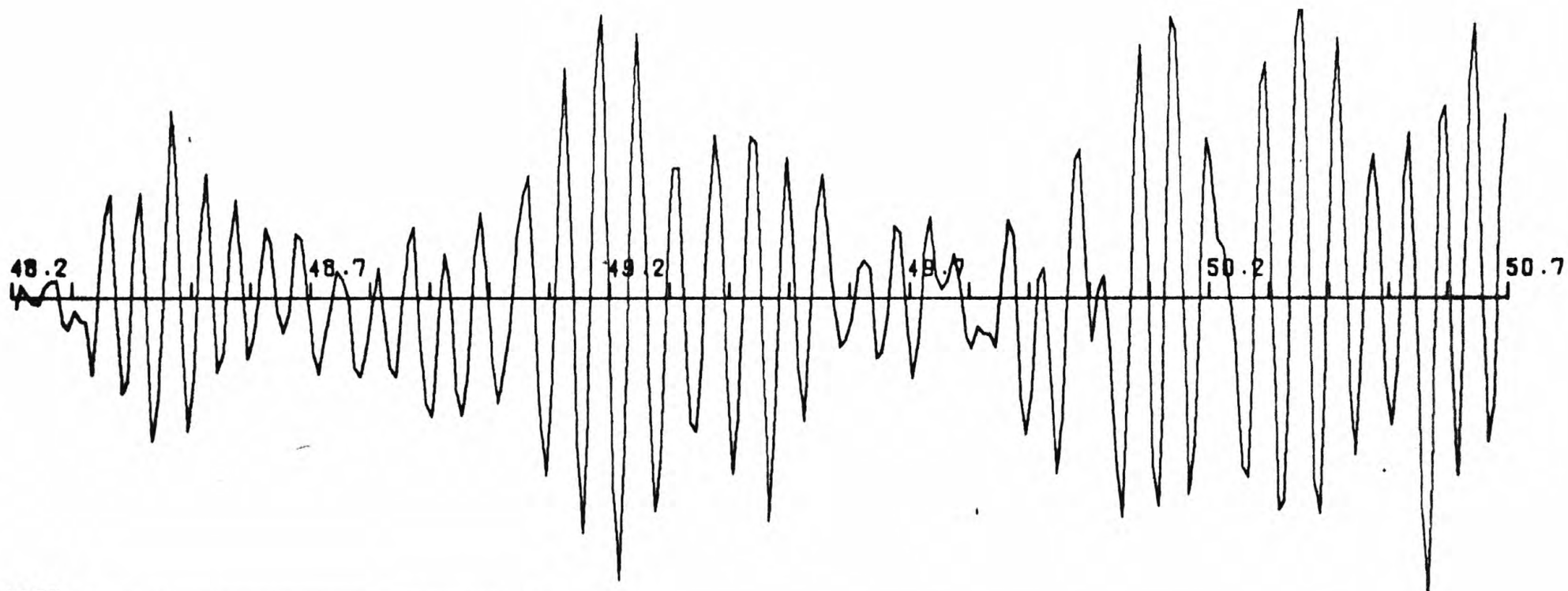
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 1

RECORDER LOCATION 414

DISTANCE FROM SHOT (KM) = -341.114

TSCALE (CM/SEC) = 10.0



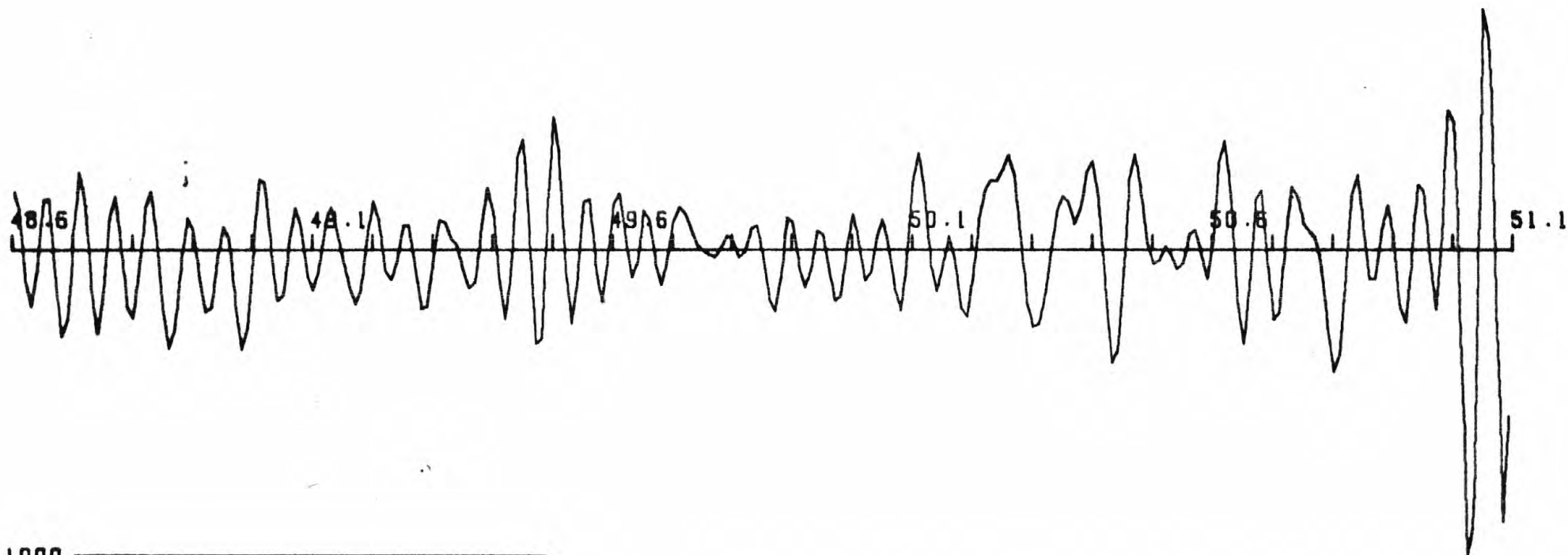
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 1

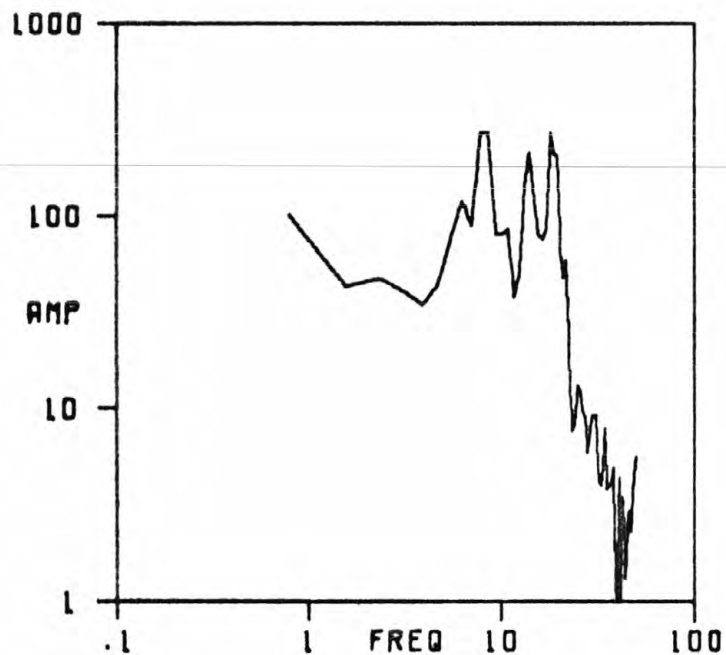
RECORDER LOCATION 425

DISTANCE FROM SHOT (KM) = -343.119

TSCALE (CM/SEC) = 10.0



134



SAUDI REFRACTION PROFILE 15.20 BP

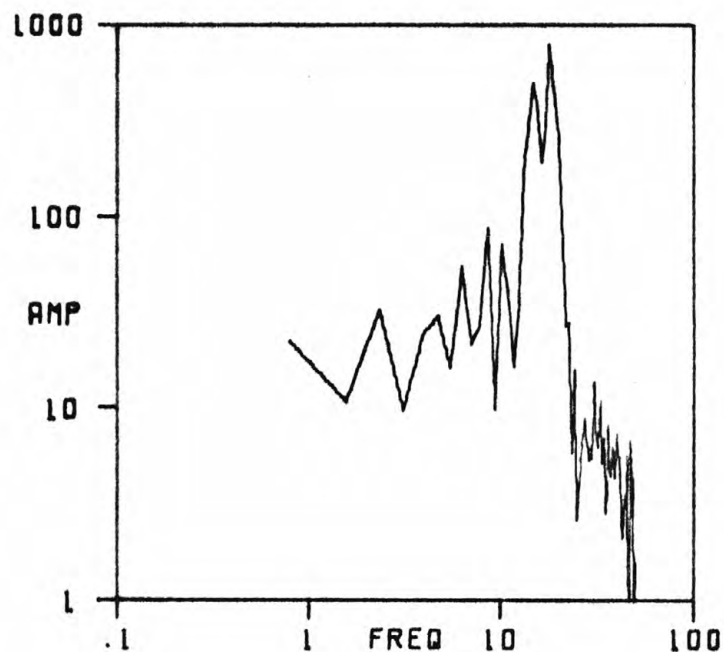
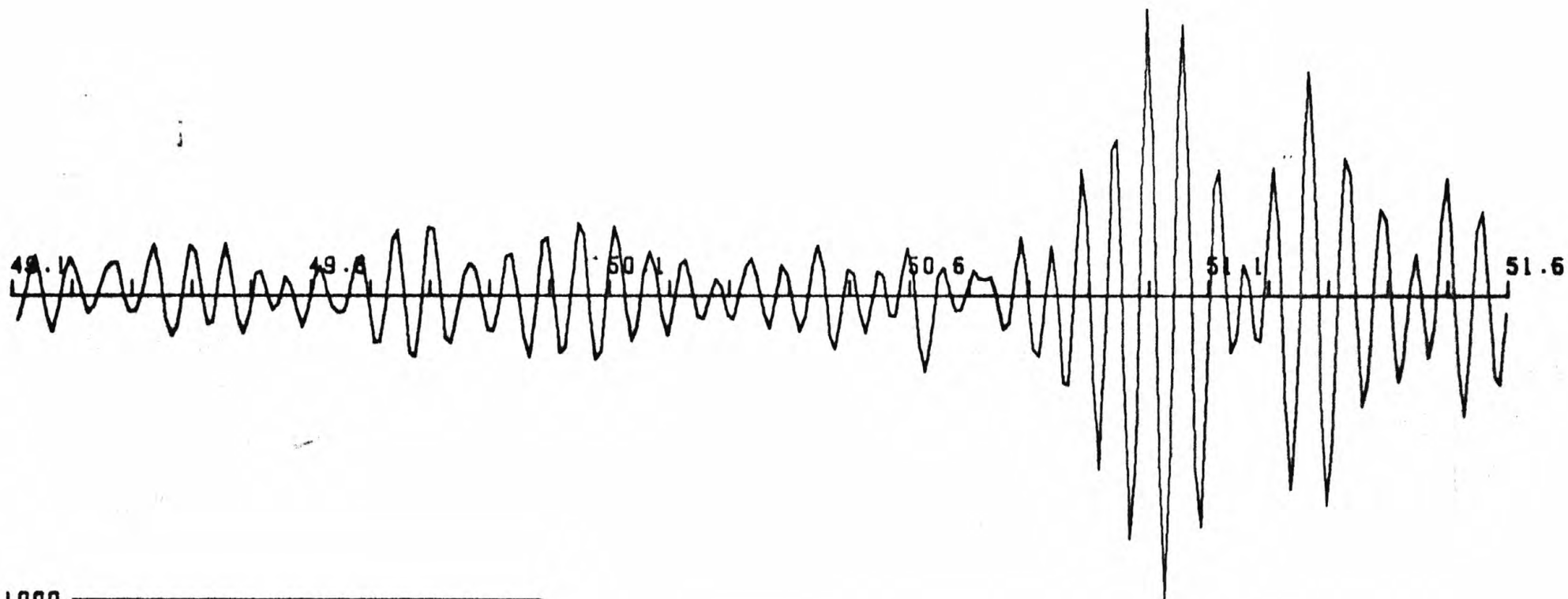
SHOT POINT 1

RECORDER LOCATION 416

DISTANCE FROM SHOT (KM) = -345.144

TSCALE (CM/SEC) = 10.0

135



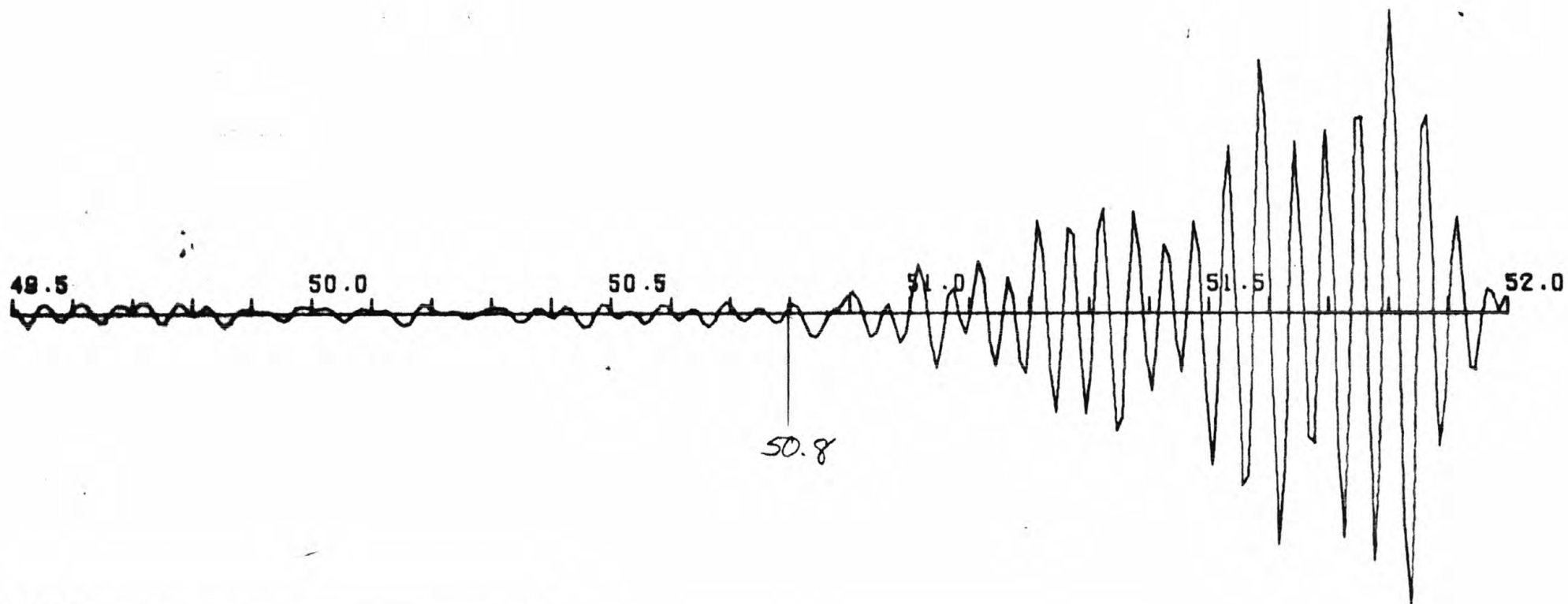
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 1

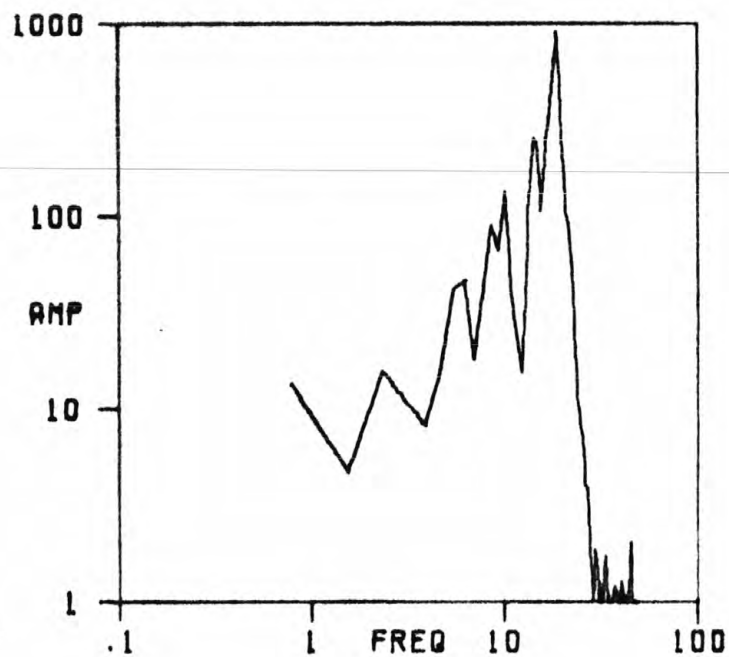
RECORDER LOCATION 417

DISTANCE FROM SHOT (KM) = -348.174

TSCALE (CM/SEC) = 10.0



136



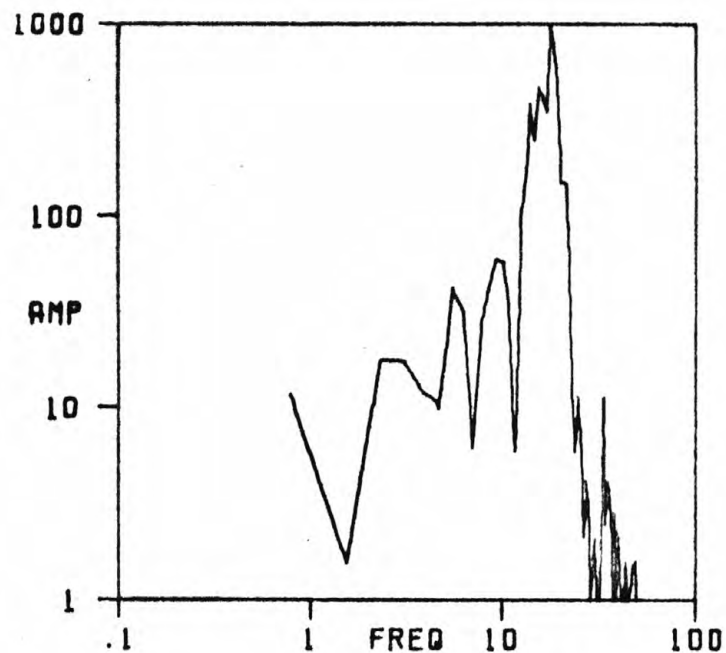
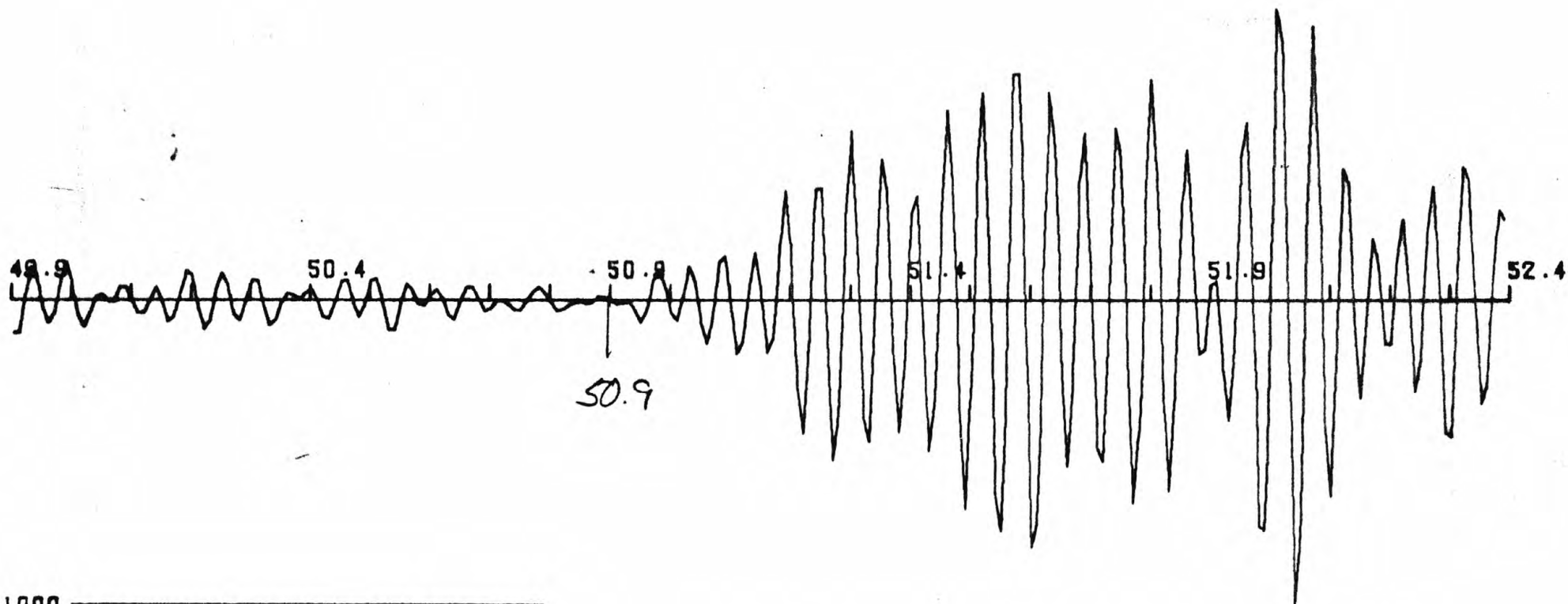
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 1

RECORDER LOCATION 418

DISTANCE FROM SHOT (KM) = -950.681

TSCALE (CM/SEC) = 10.0



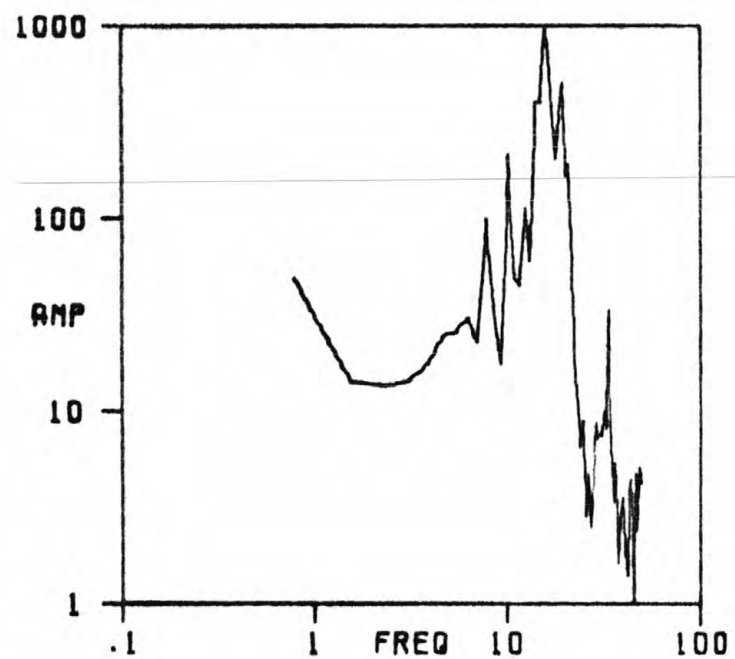
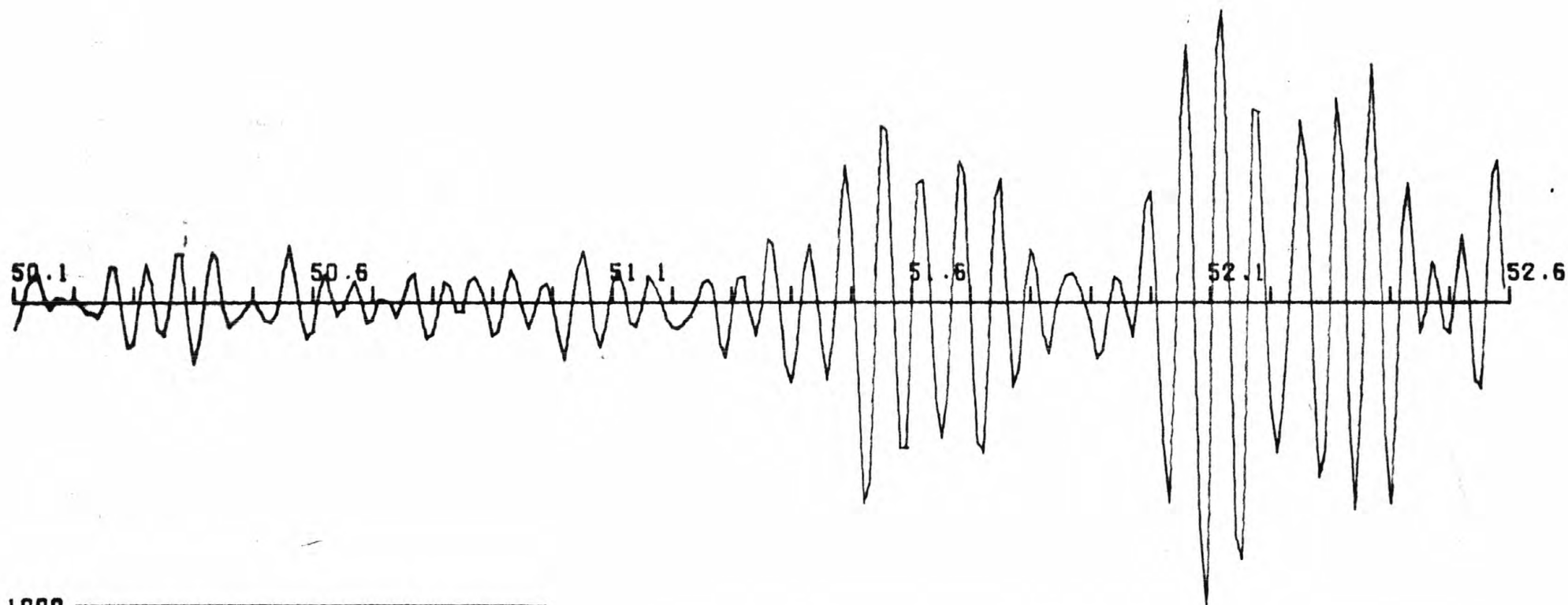
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 1

RECORDER LOCATION 420

DISTANCE FROM SHOT (KM) = -353.184

TSCALE (CM/SEC) = 10.0



SAUDI REFRACTION PROFILE 15.20 BP

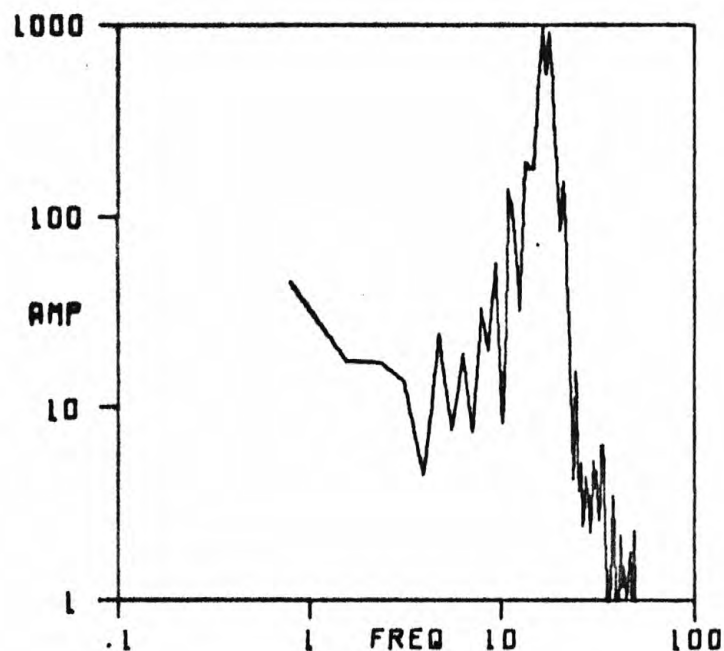
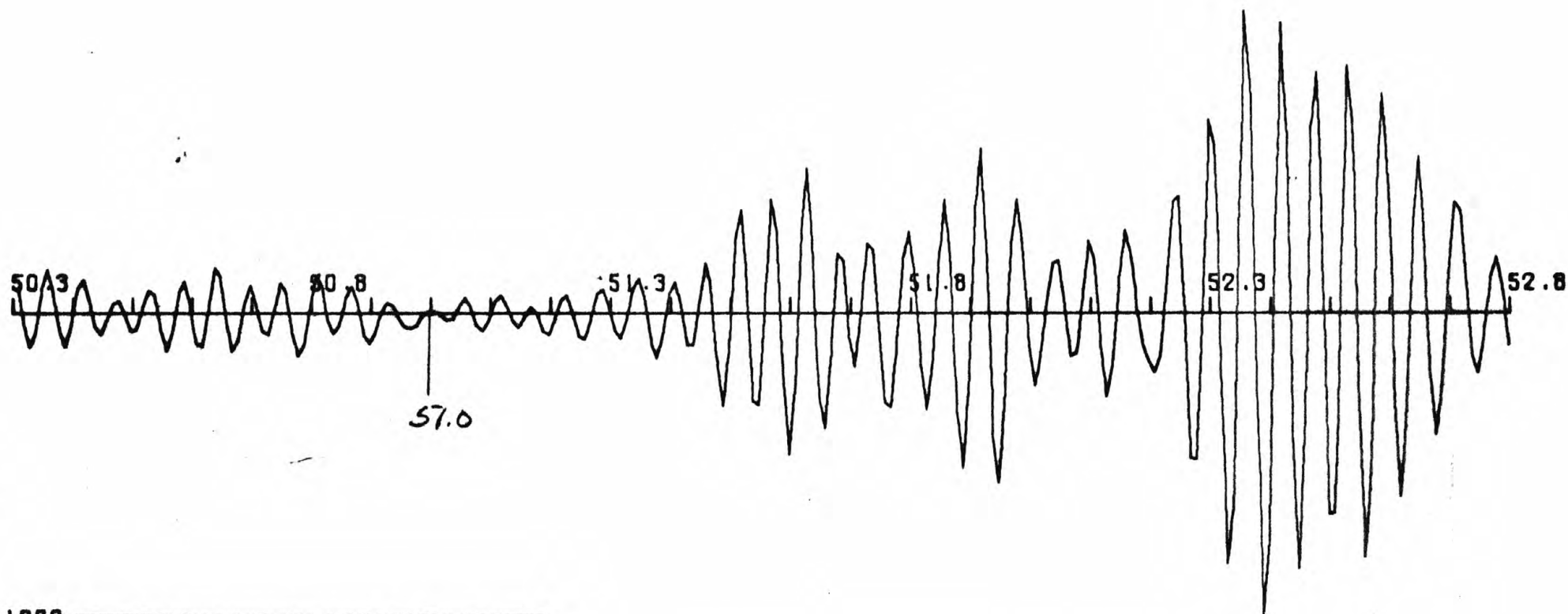
SHOT POINT 1

RECORDER LOCATION 421

DISTANCE FROM SHOT (KM) = -354.435

TSCALE (CM/SEC) = 10.0

139



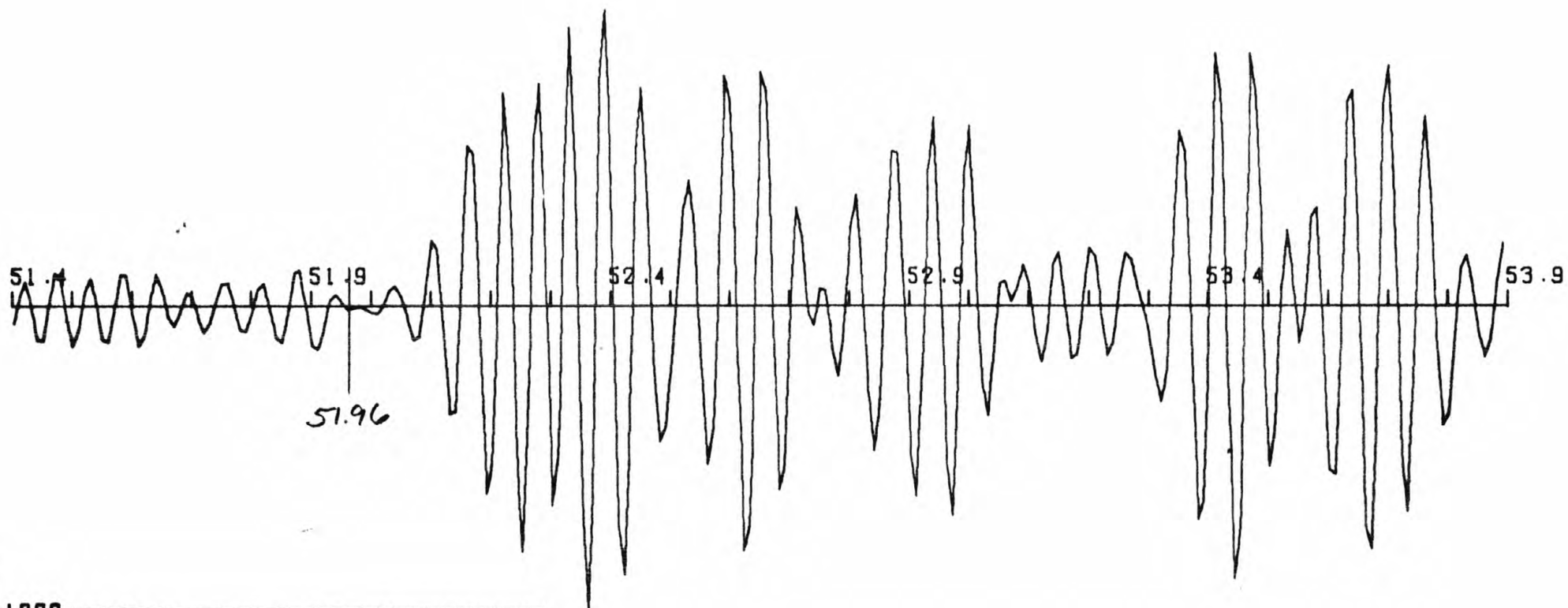
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 1

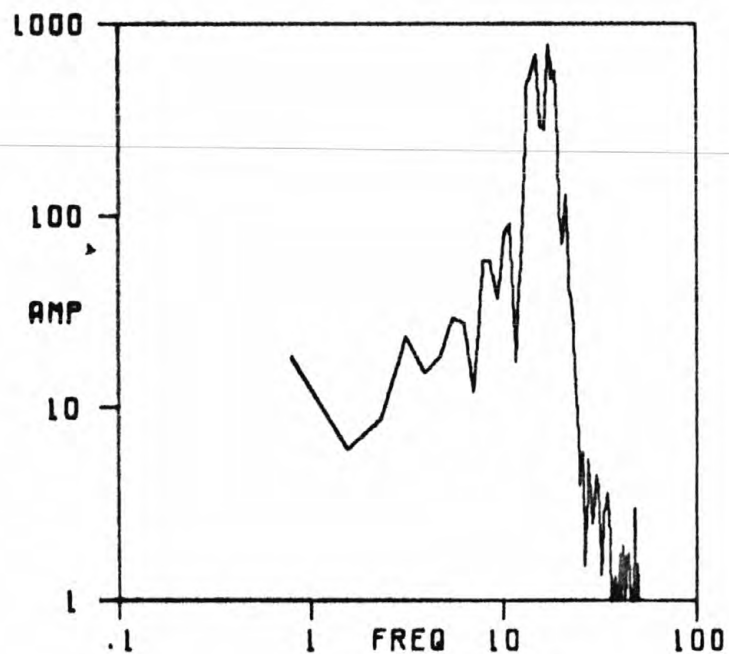
RECORDER LOCATION 422

DISTANCE FROM SHOT (KM) = -355.557

TSCALE (CM/SEC) = 10.0



140



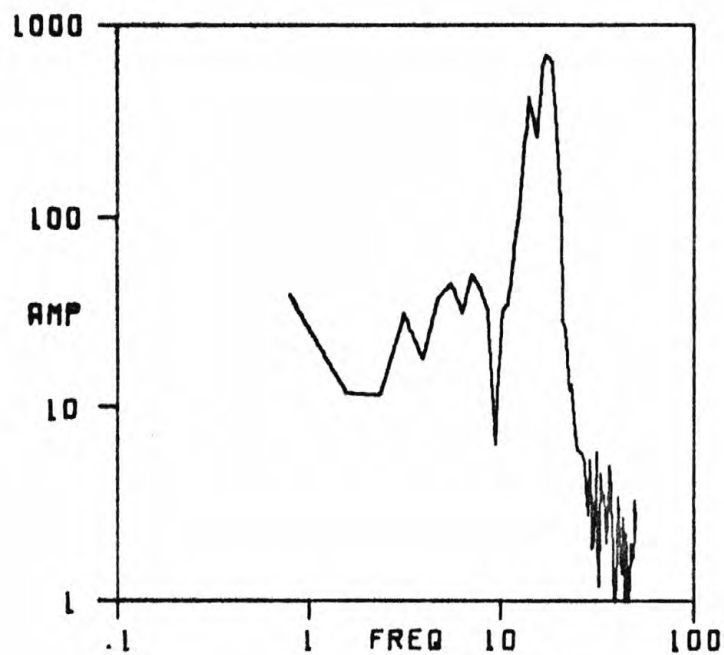
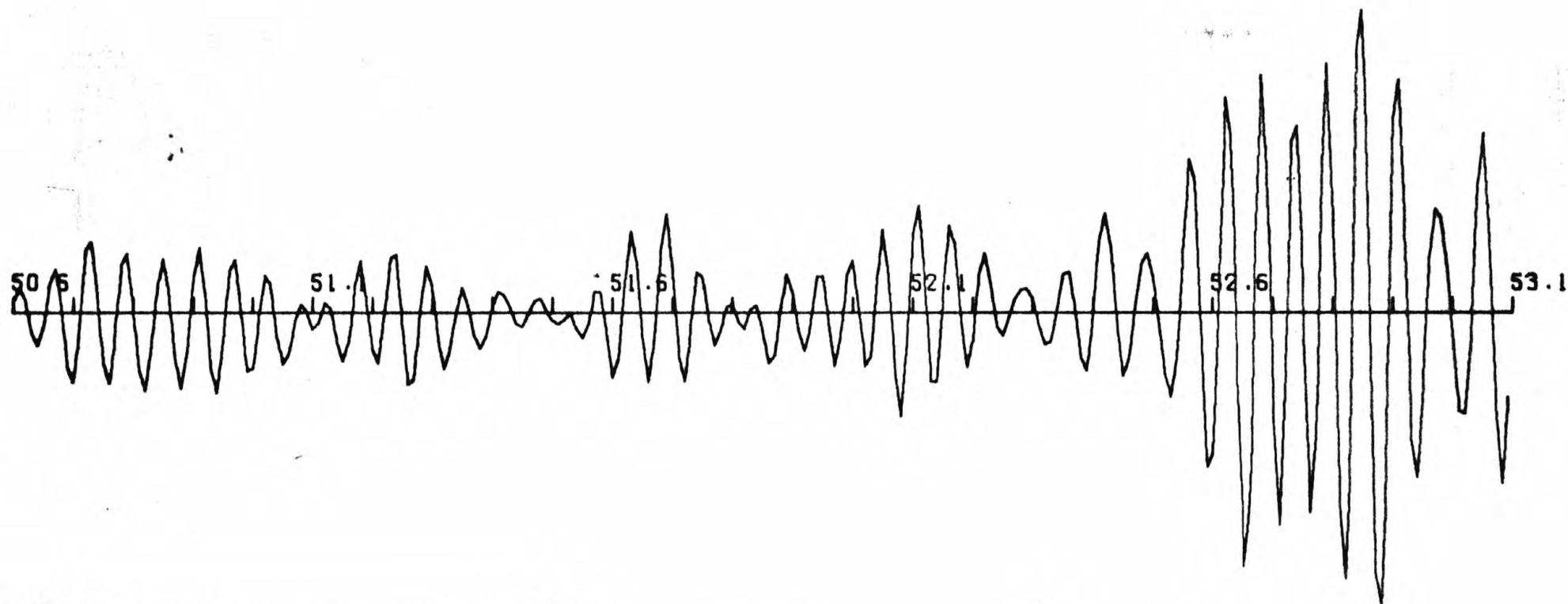
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 1

RECORDER LOCATION 428

DISTANCE FROM SHOT (KM) = -361.942

TSCALE (CM/SEC) = 10.0



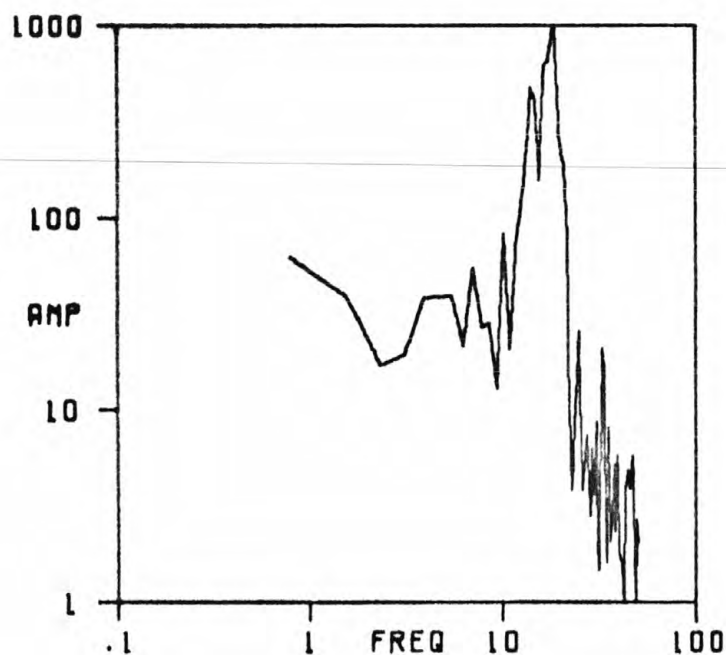
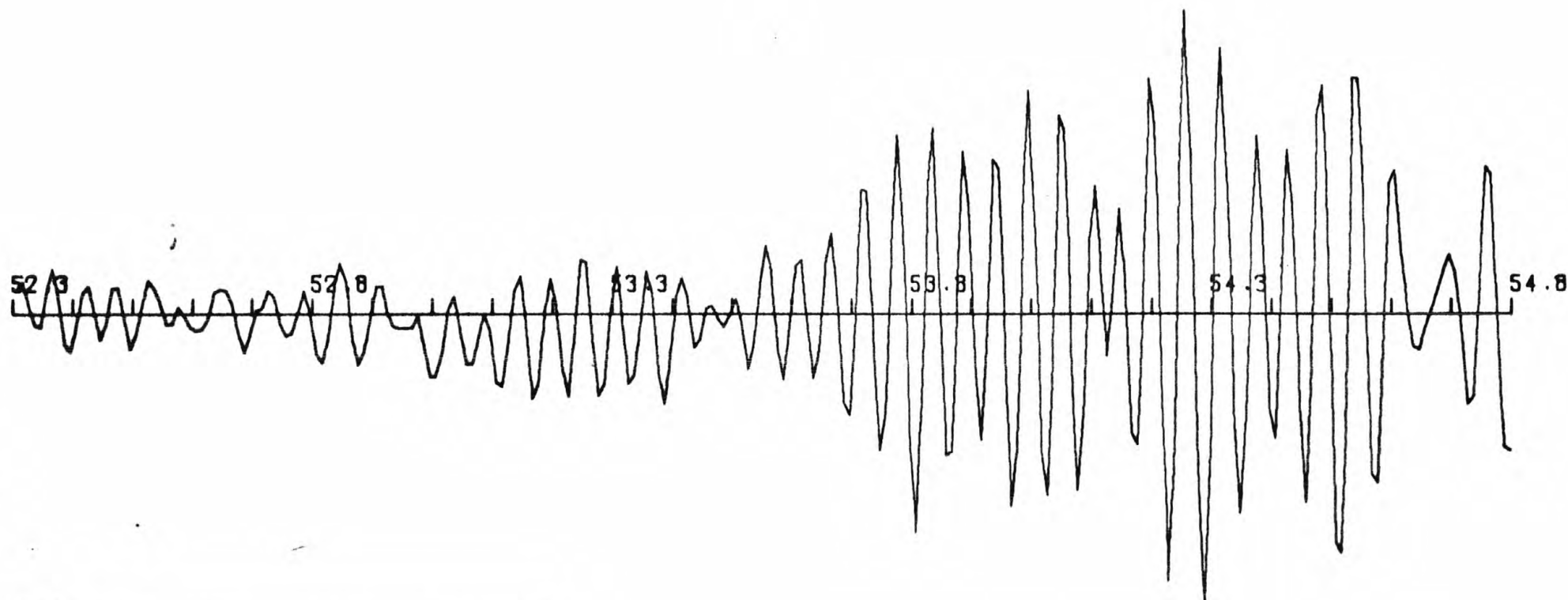
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 1

RECORDER LOCATION 429

DISTANCE FROM SHOT (KM) = -363.556

TSCALE (CM/SEC) = 10.0



SAUDI REFRACTION PROFILE 15.20 BP

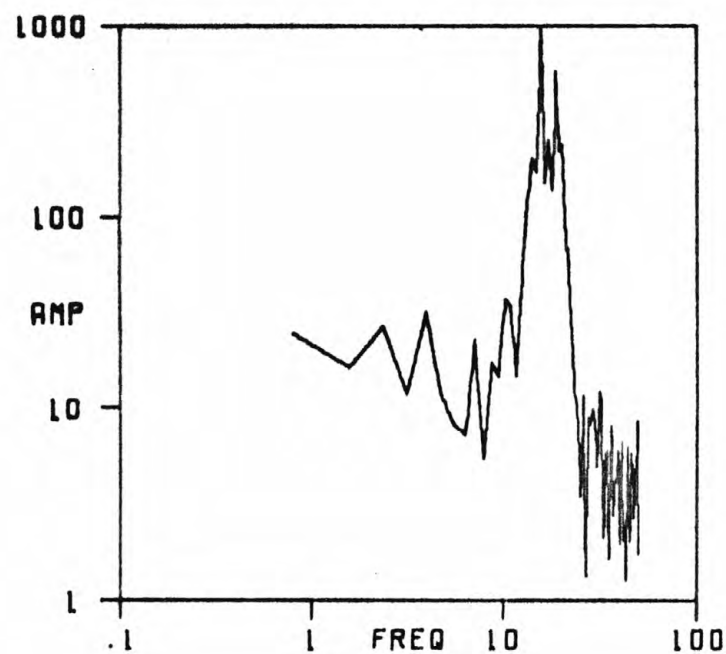
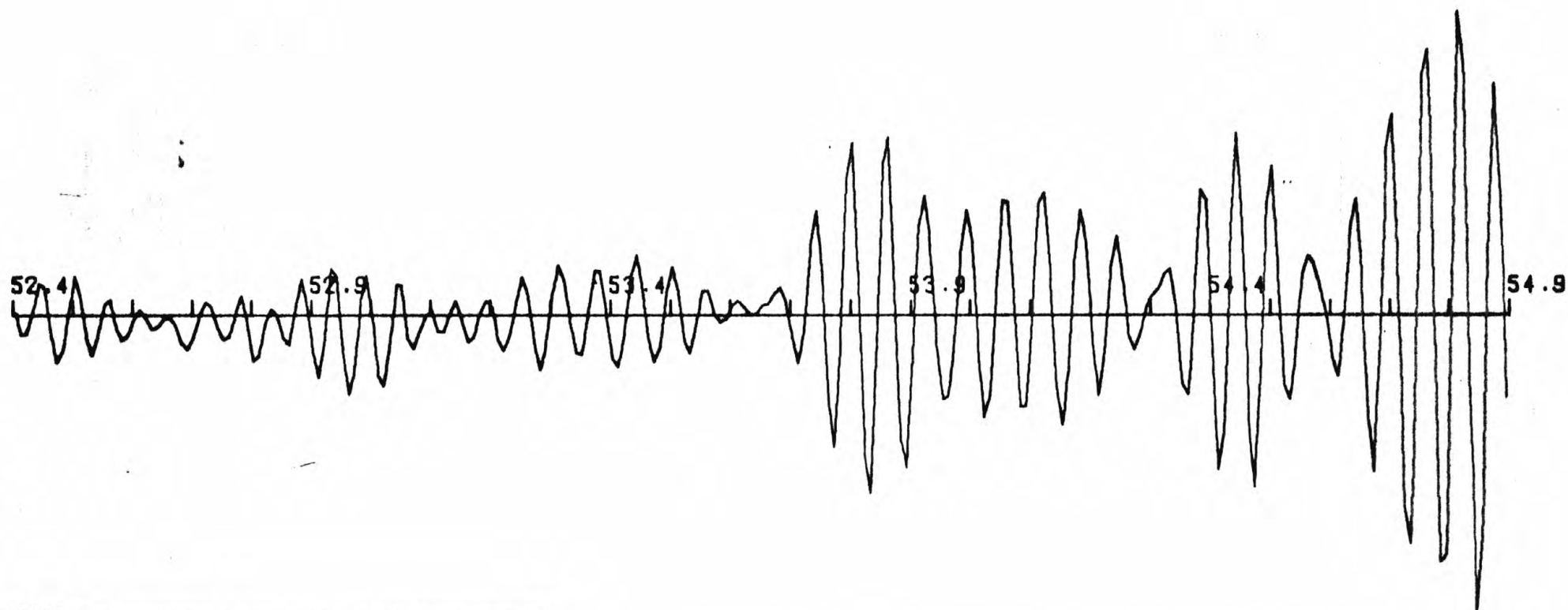
SHOT POINT 1

RECORDER LOCATION 434

DISTANCE FROM SHOT (KM) = -373.731

TSCALE (CM/SEC) = 10.0

143



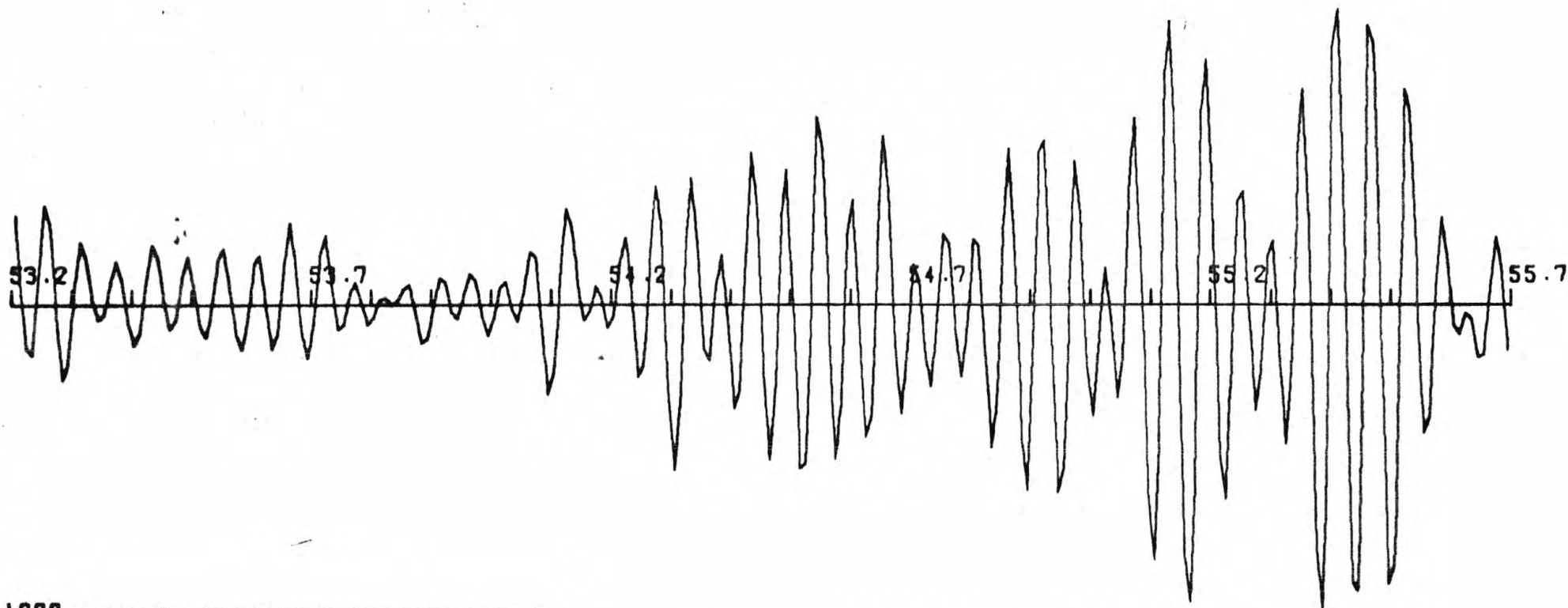
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 1

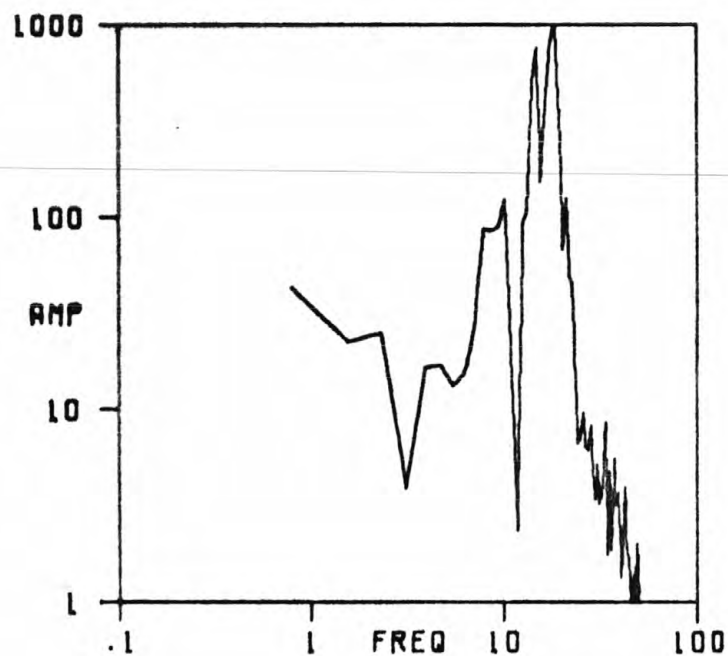
RECORDER LOCATION 435

DISTANCE FROM SHOT (KM) = -374.192

TSCALE (CM/SEC) = 10.0



144



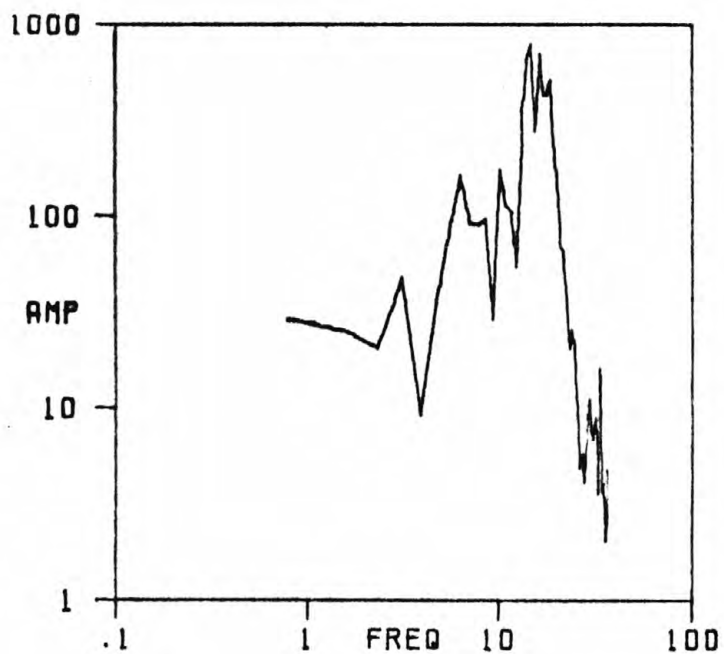
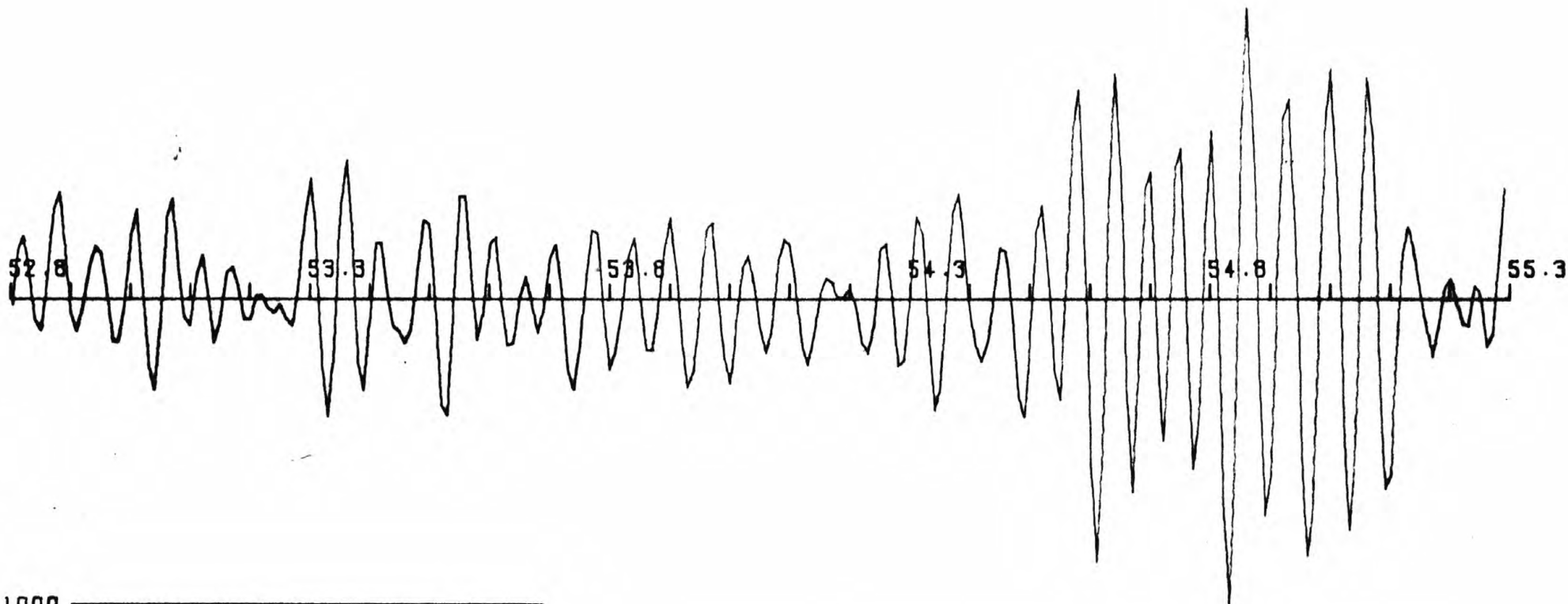
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 1

RECORDER LOCATION 437

DISTANCE FROM SHOT (KM) = -378.999

TSCALE (CM/SEC) = 10.0



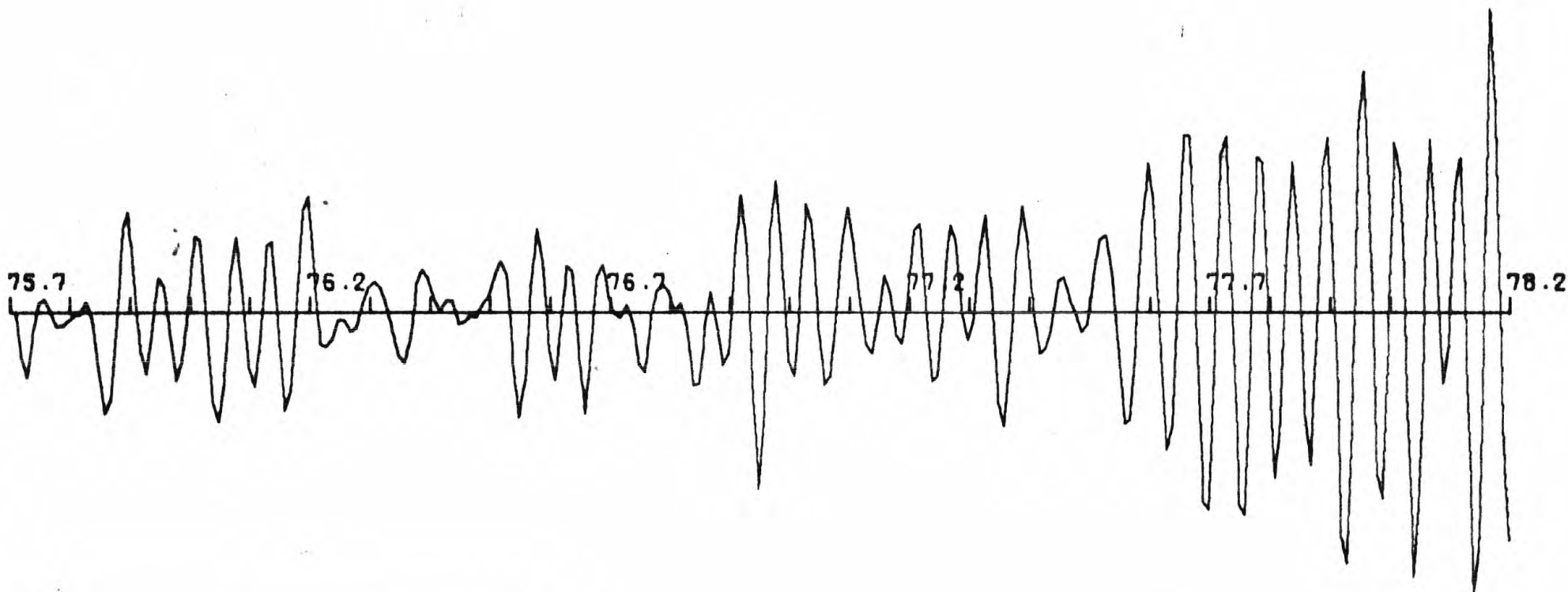
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 1

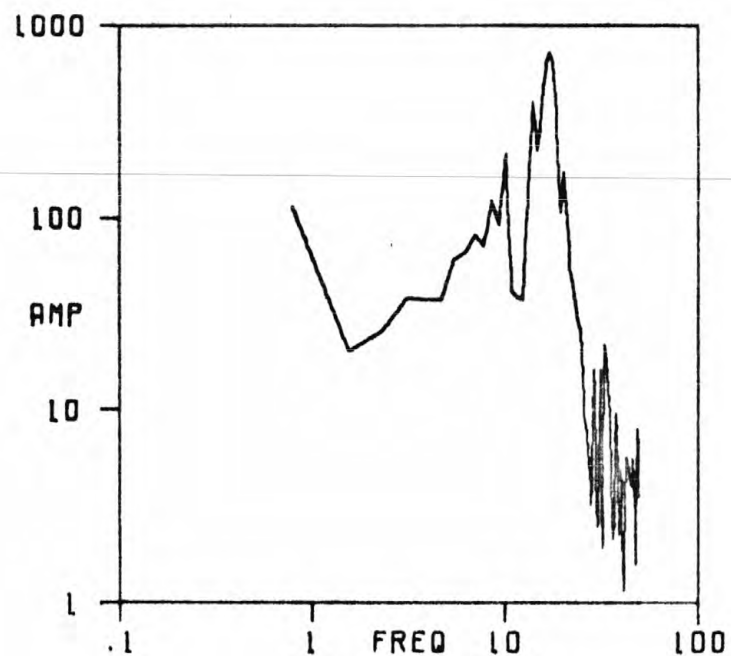
RECORDER LOCATION 438

DISTANCE FROM SHOT (KM) = -382.217

TS SCALE (CM/SEC) = 10.0



14



SAUDI REFRACTION PROFILE 15.20 BP

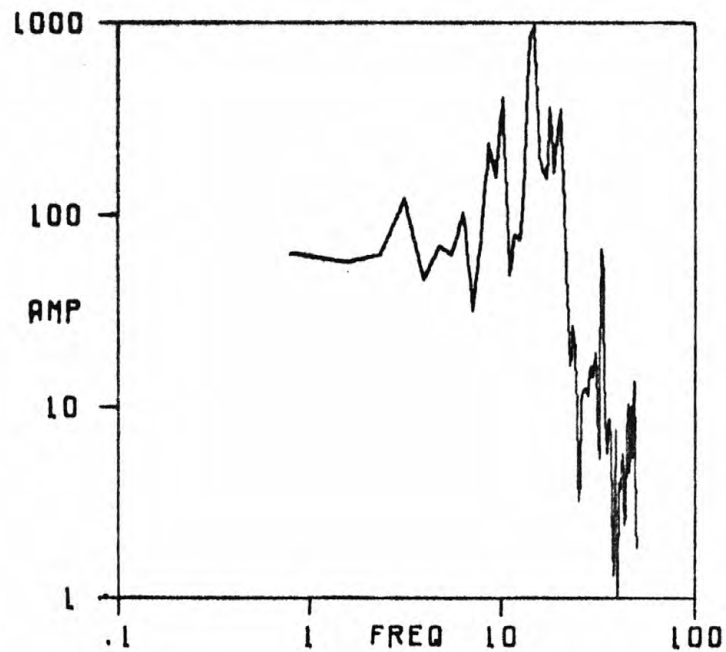
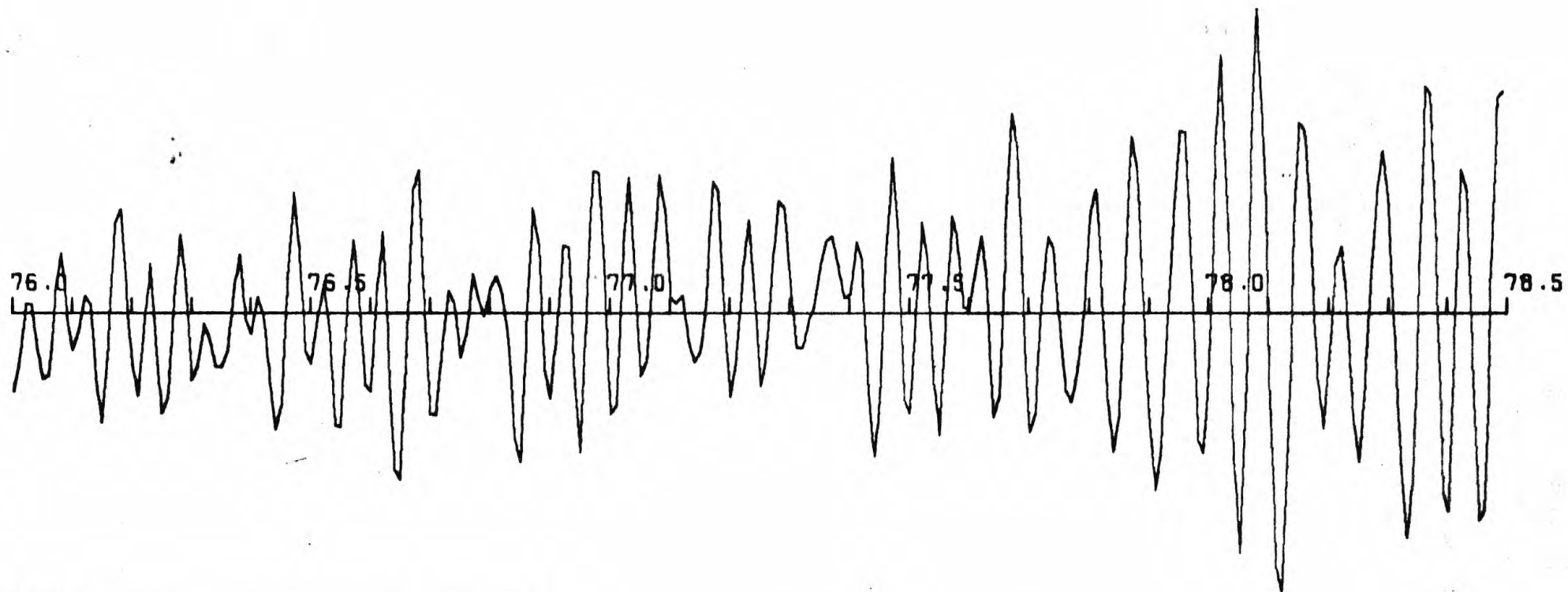
SHOT POINT 1

RECORDER LOCATION 523

DISTANCE FROM SHOT (KM) = -567.956

TSCALE (CM/SEC) = 10.0

147



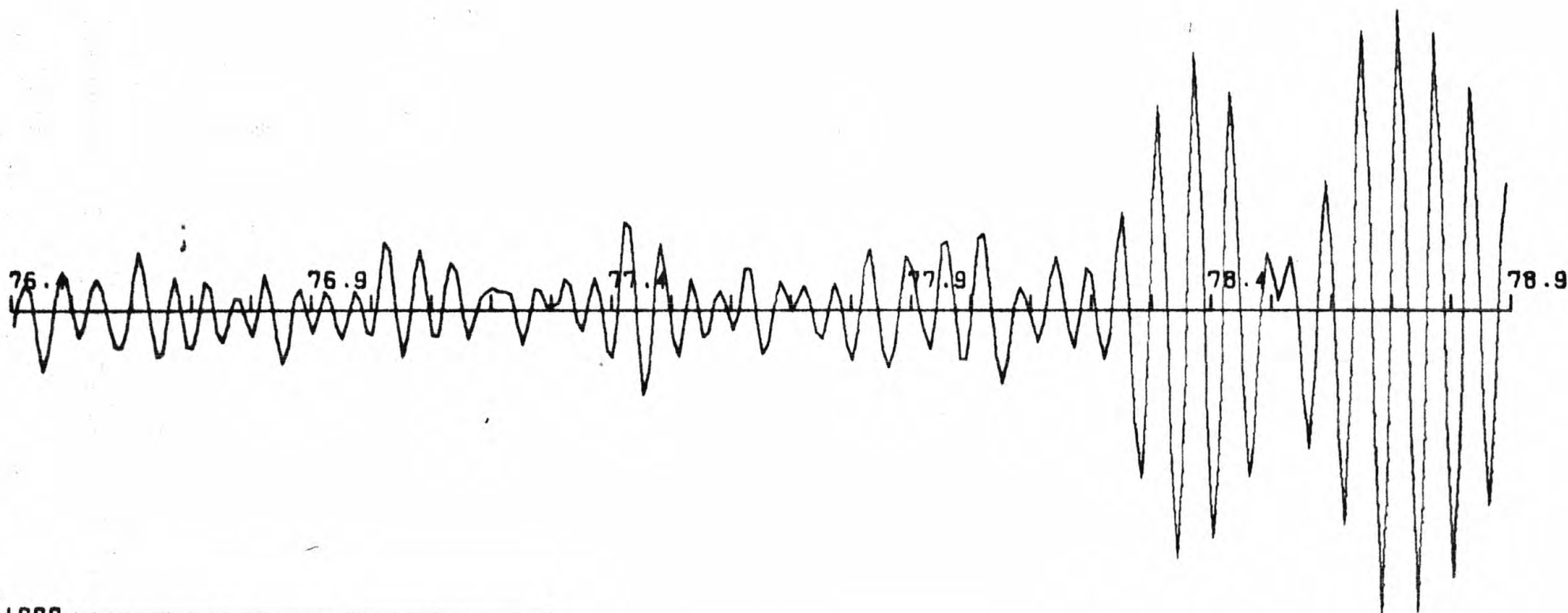
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 1

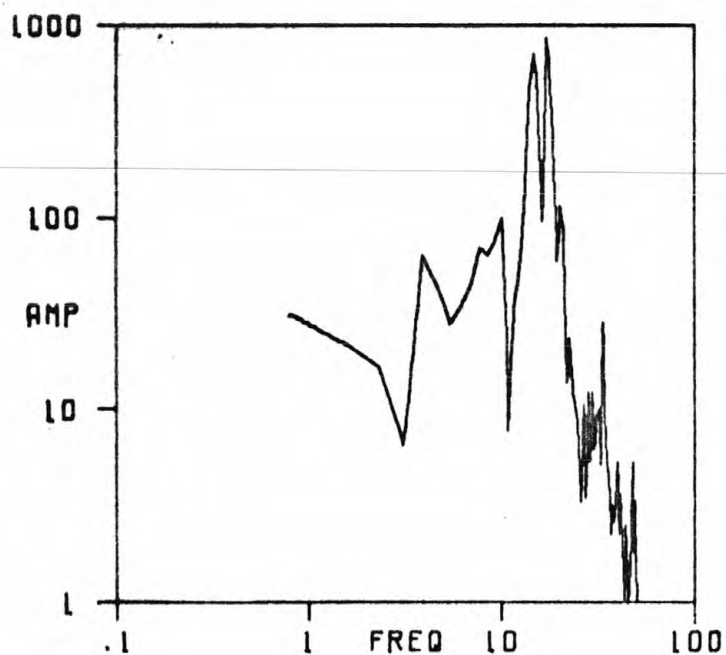
RECORDER LOCATION 524

DISTANCE FROM SHOT (KM) = -569.541

TSCALE (CM/SEC) = 10.0



148



SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 1

RECORDER LOCATION 526

DISTANCE FROM SHOT (KM) = -572.306

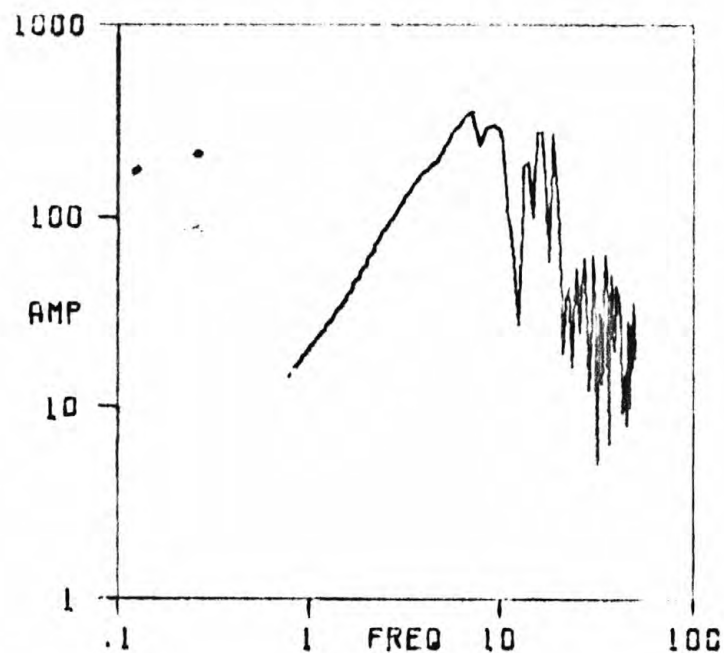
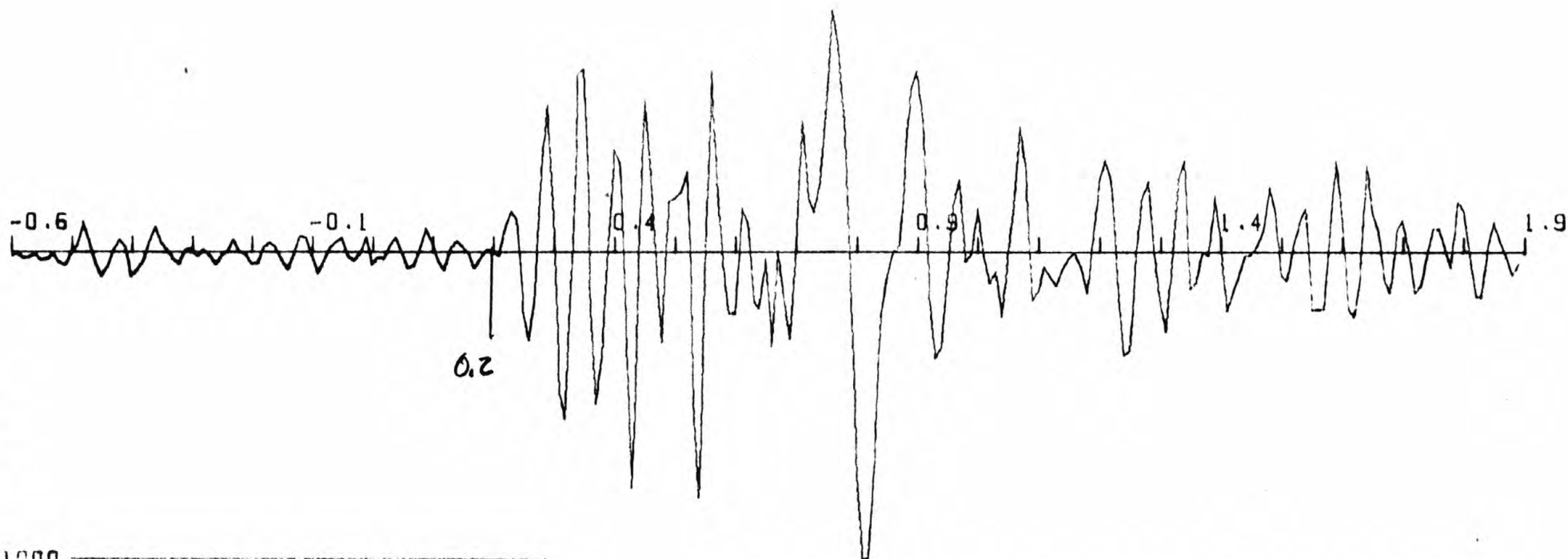
TSCALE (CM/SEC) = 10.0

First Arrivals

Northeast from Shot Point 2

(1.9 to 217.0 km)

151



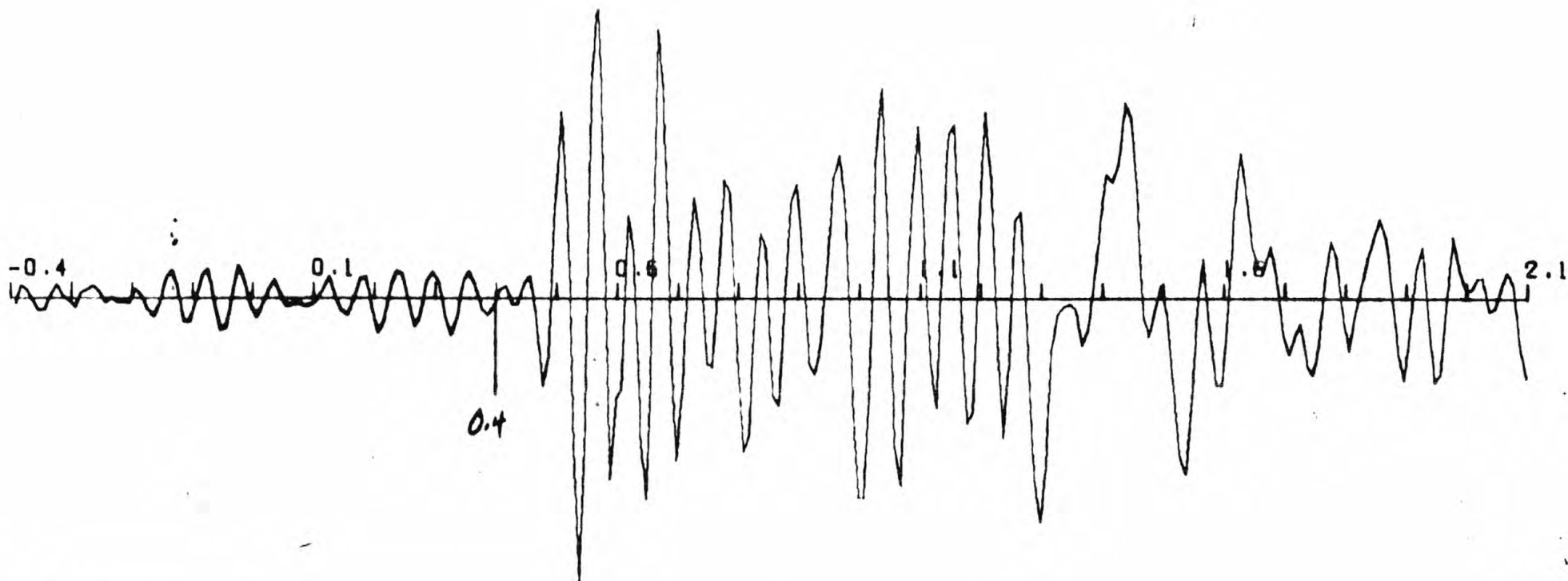
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 2

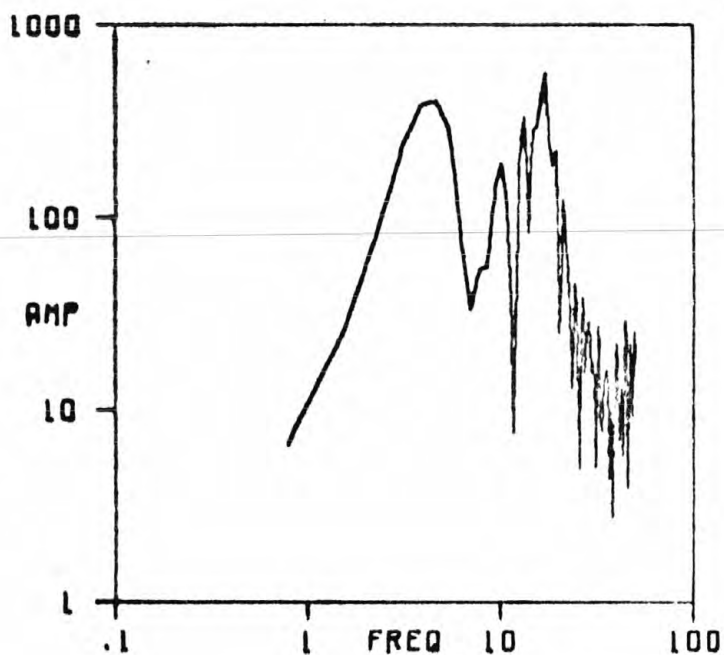
RECORDER LOCATION 302

DISTANCE FROM SHOT (KM) = 1.924

TSCALE (CM/SEC) = 10.0



152



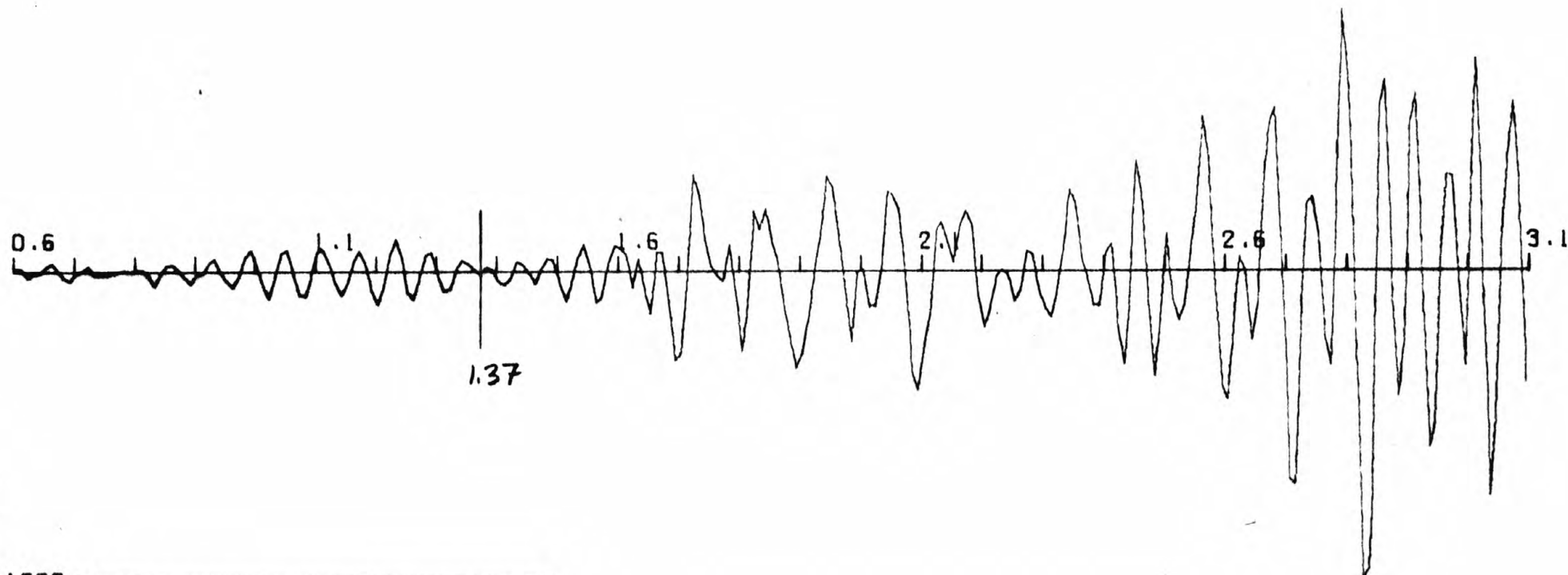
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 2

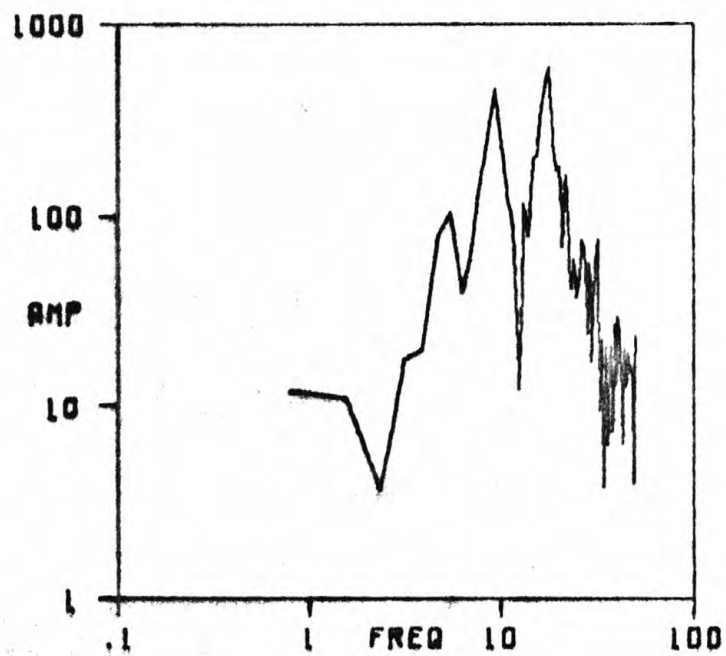
RECORDER LOCATION 299

DISTANCE FROM SHOT (KM) = 3.349

TSCALE (CM/SEC) = 10.0



153



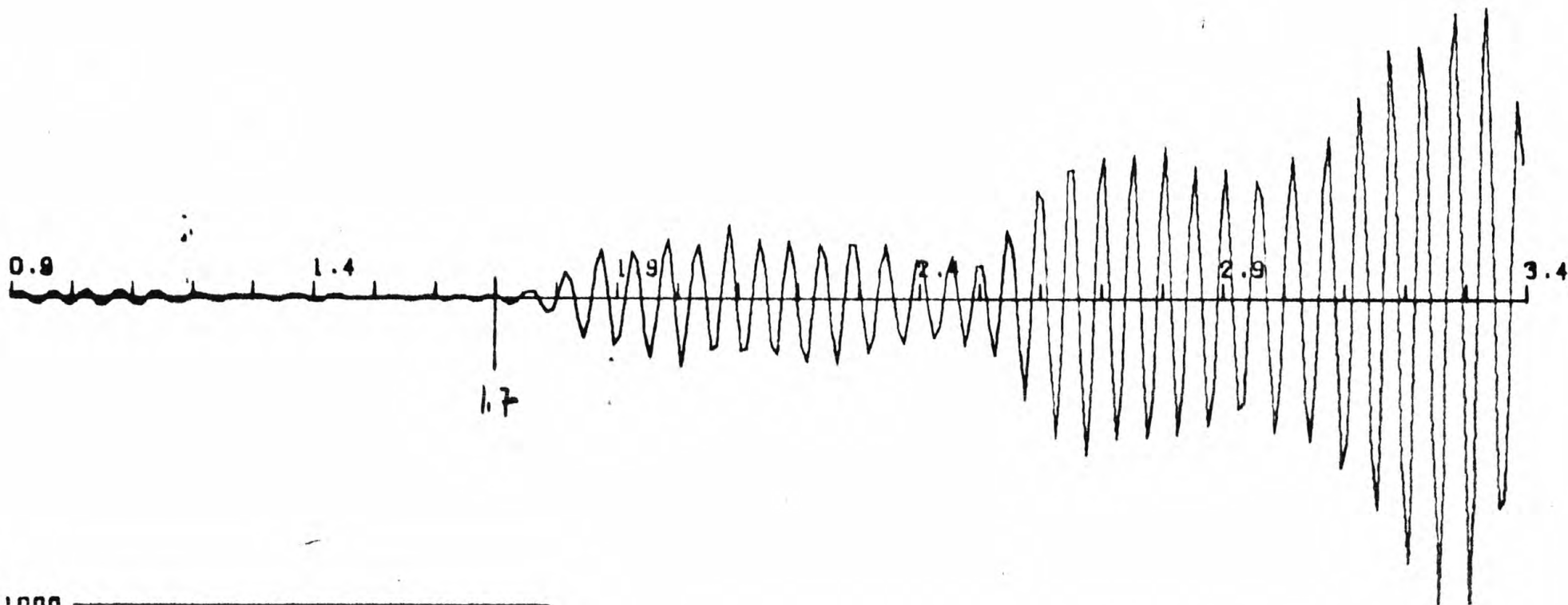
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 2

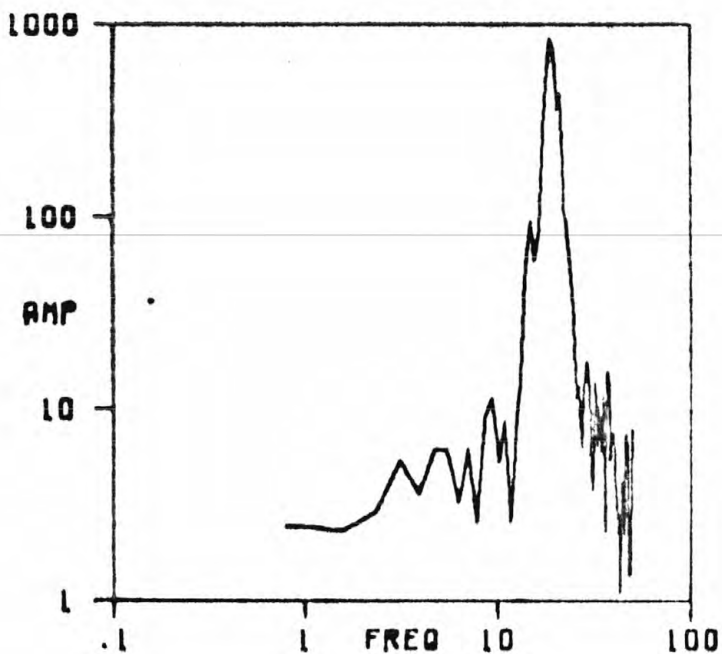
RECORDER LOCATION 296

DISTANCE FROM SHOT (KM) = 9.331

TSCALE (CM/SEC) = 10.0



154



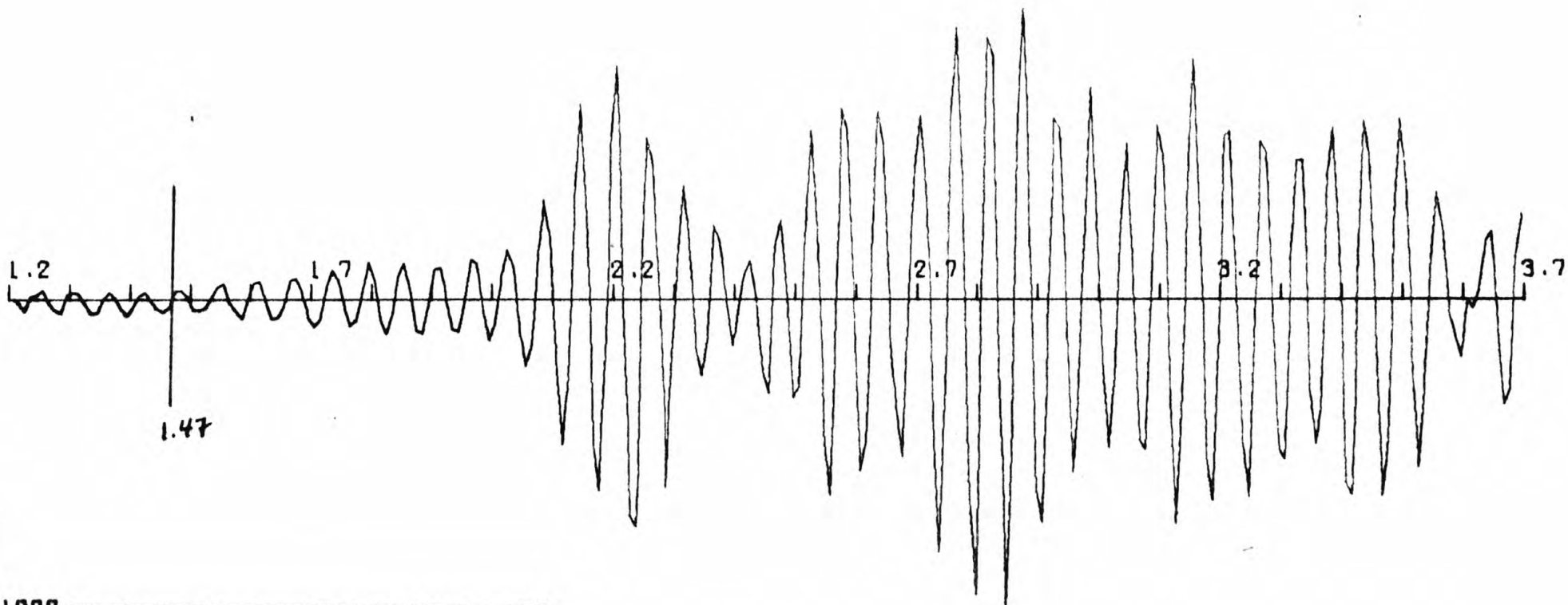
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 2

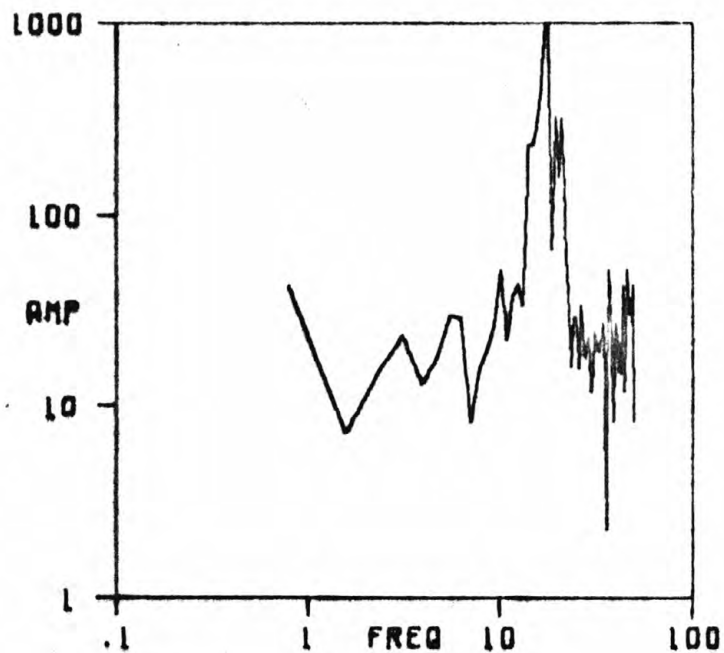
RECORDER LOCATION 295

DISTANCE FROM SHOT (KM) = 11.137

TSCALE (CM/SEC) = 10.0



155



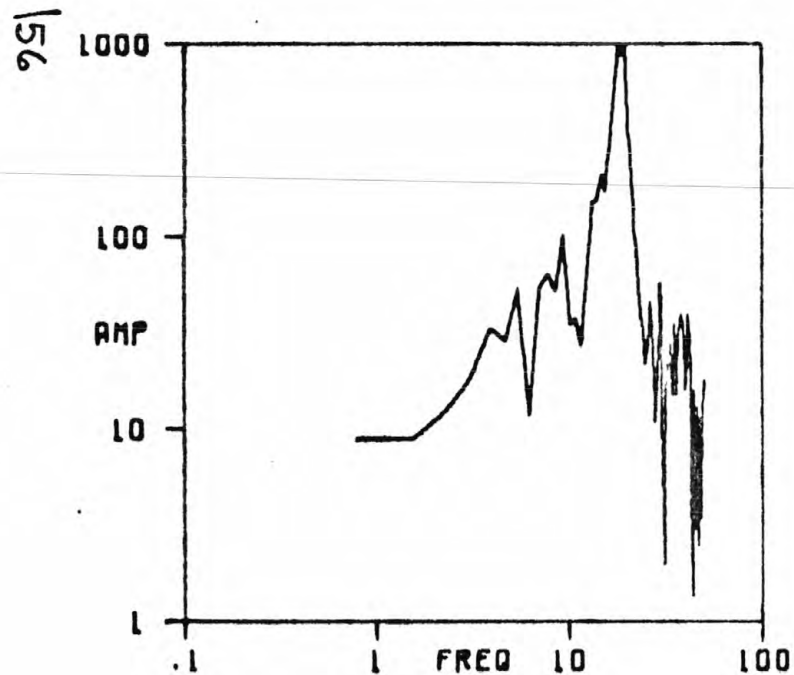
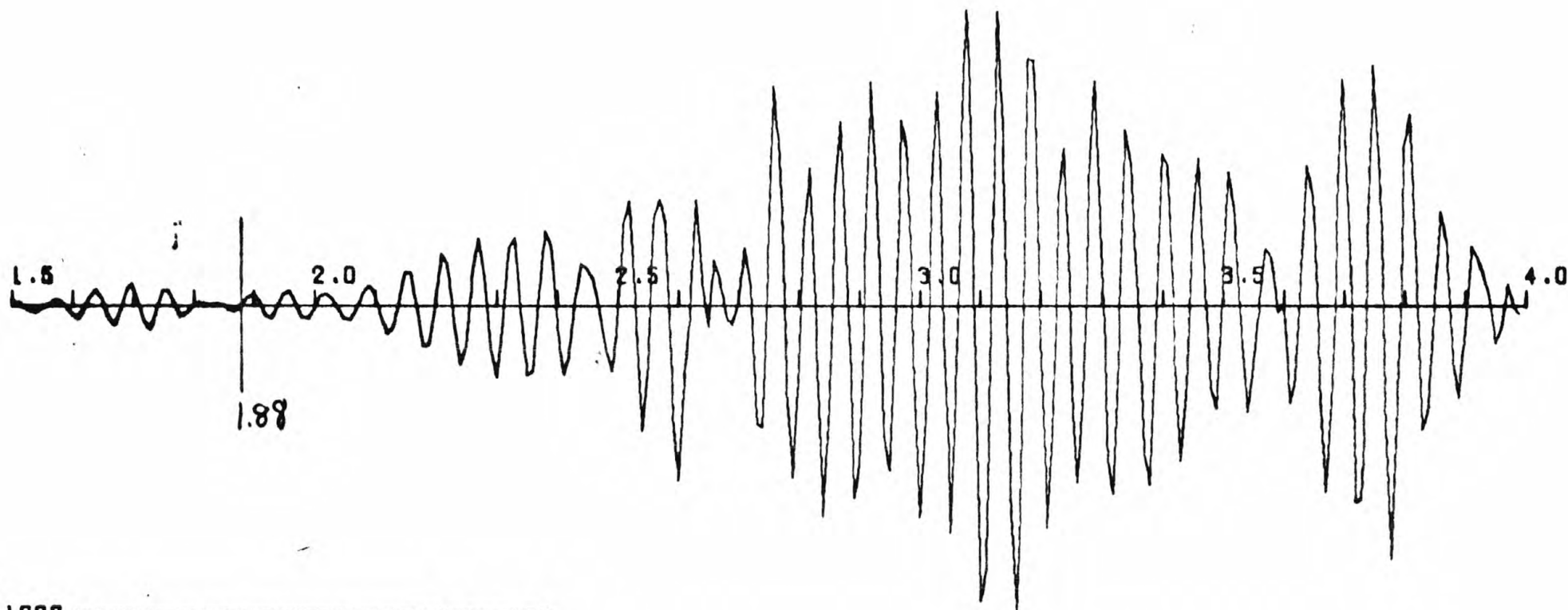
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 2

RECORDER LOCATION 294

DISTANCE FROM SHOT (KM) = 12.706

TSCALE (CM/SEC) = 10.0



SAUDI REFRACTION PROFILE 15.20 BP

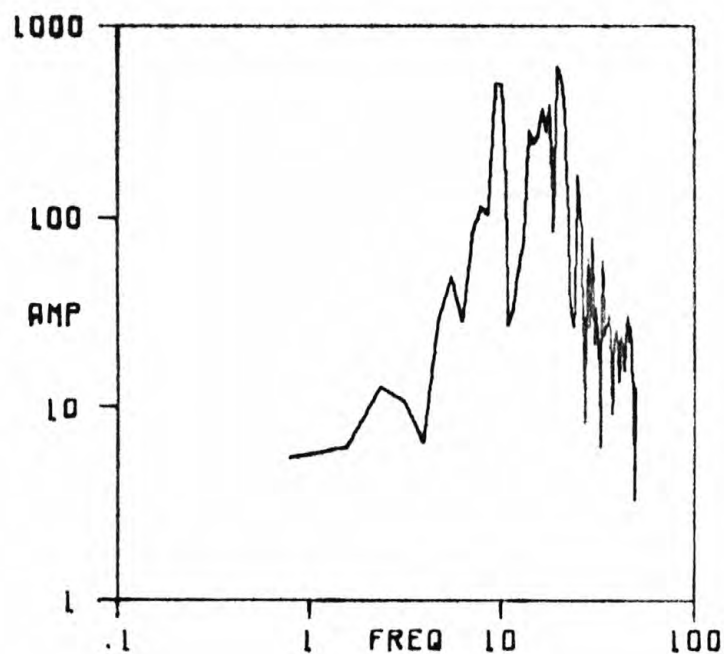
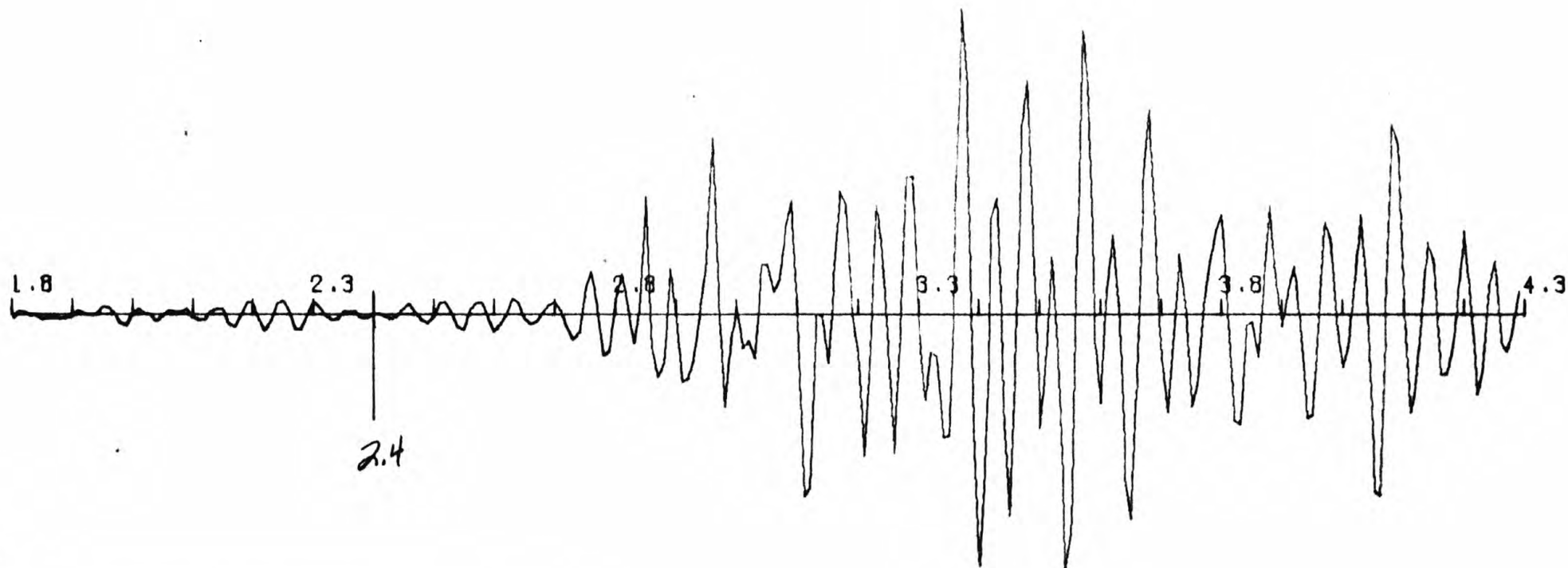
SHOT POINT 2

RECORDER LOCATION 293

DISTANCE FROM SHOT (KM) = 14.944

TSCALE (CM/SEC) = 10.0

157



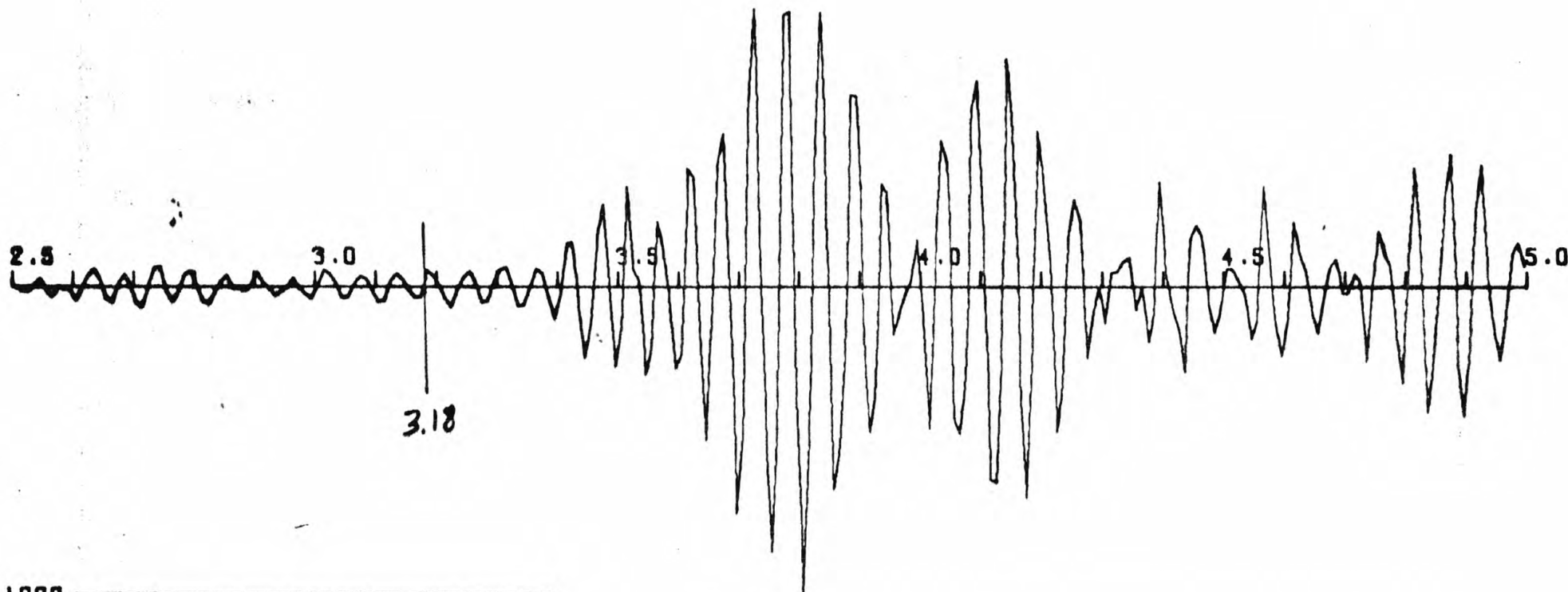
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 2

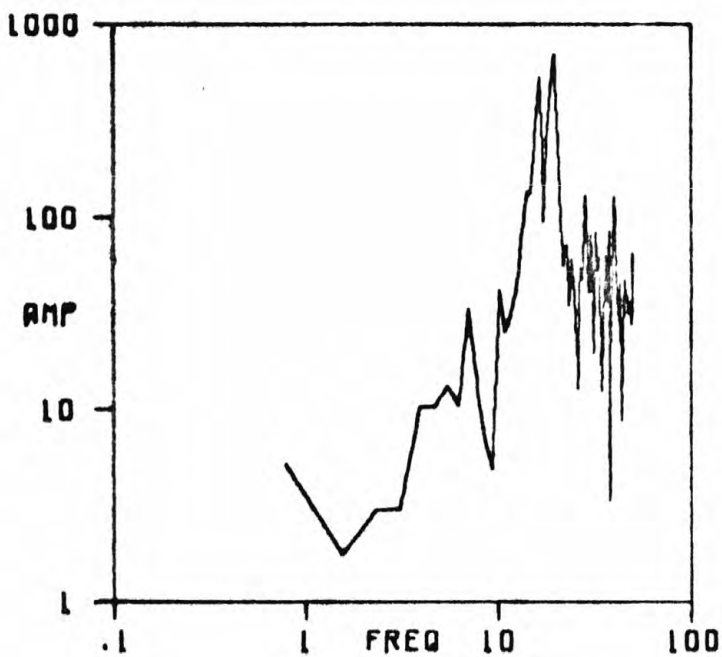
RECORDER LOCATION 292

DISTANCE FROM SHOT (KM) = 16.635

TSCALE (CM/SEC) = 10.0



158



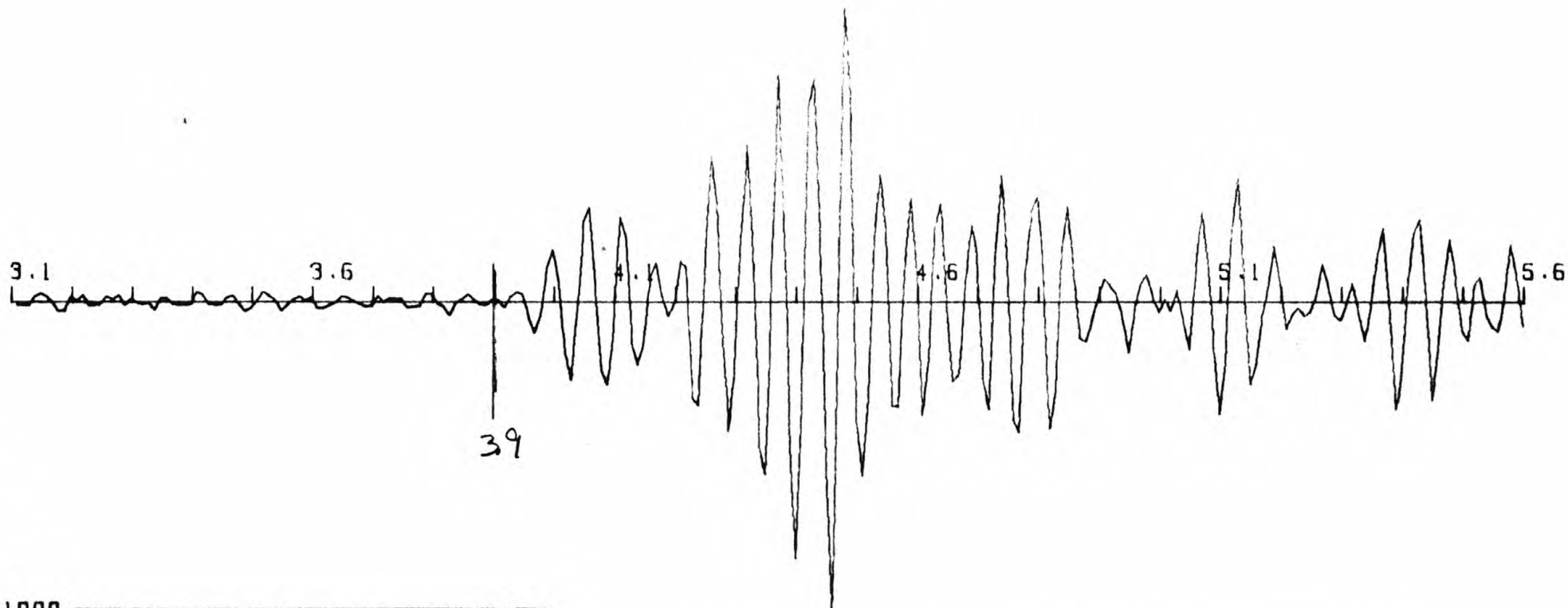
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 2

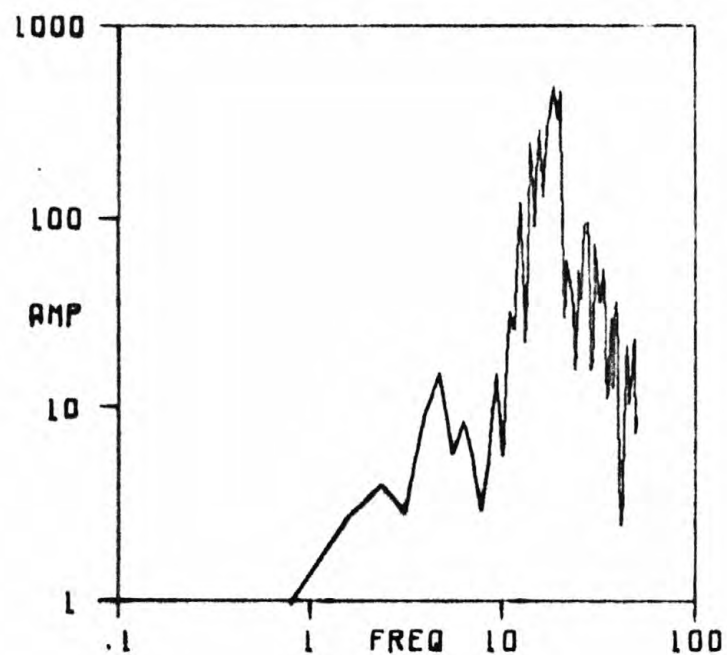
RECORDER LOCATION 290

DISTANCE FROM SHOT (KM) = 20.622

TSCALE (CM/SEC) = 10.0



159



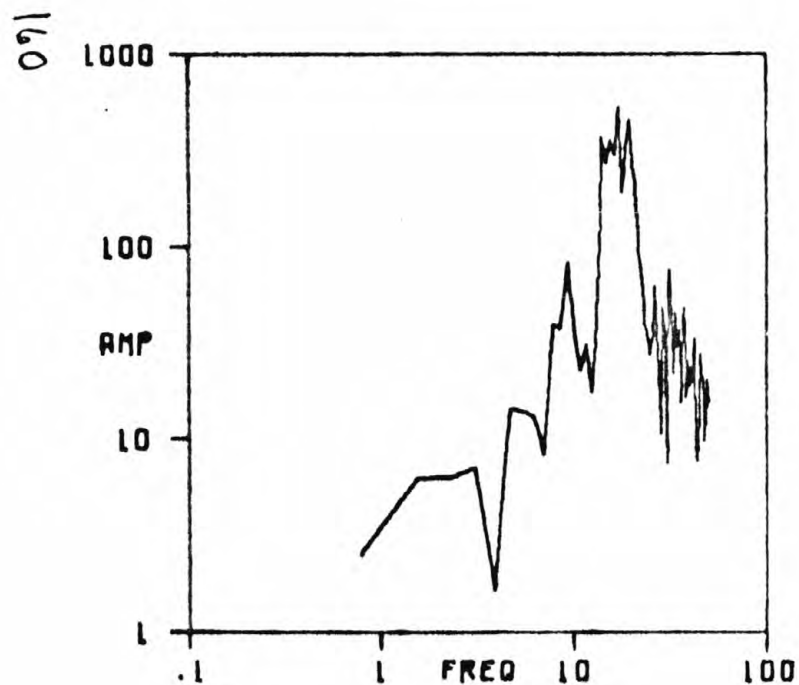
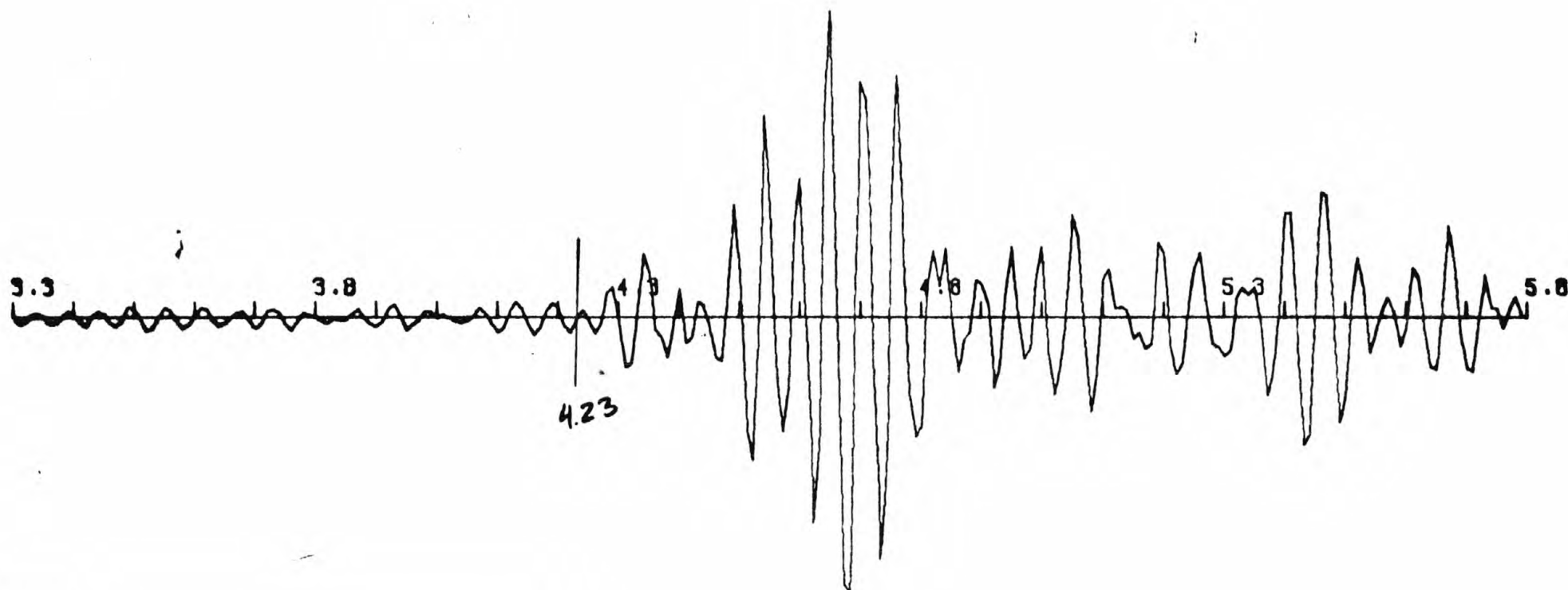
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 2

RECORDER LOCATION 288

DISTANCE FROM SHOT (KM) = 24.359

TSCALE (CM/SEC) = 10.0



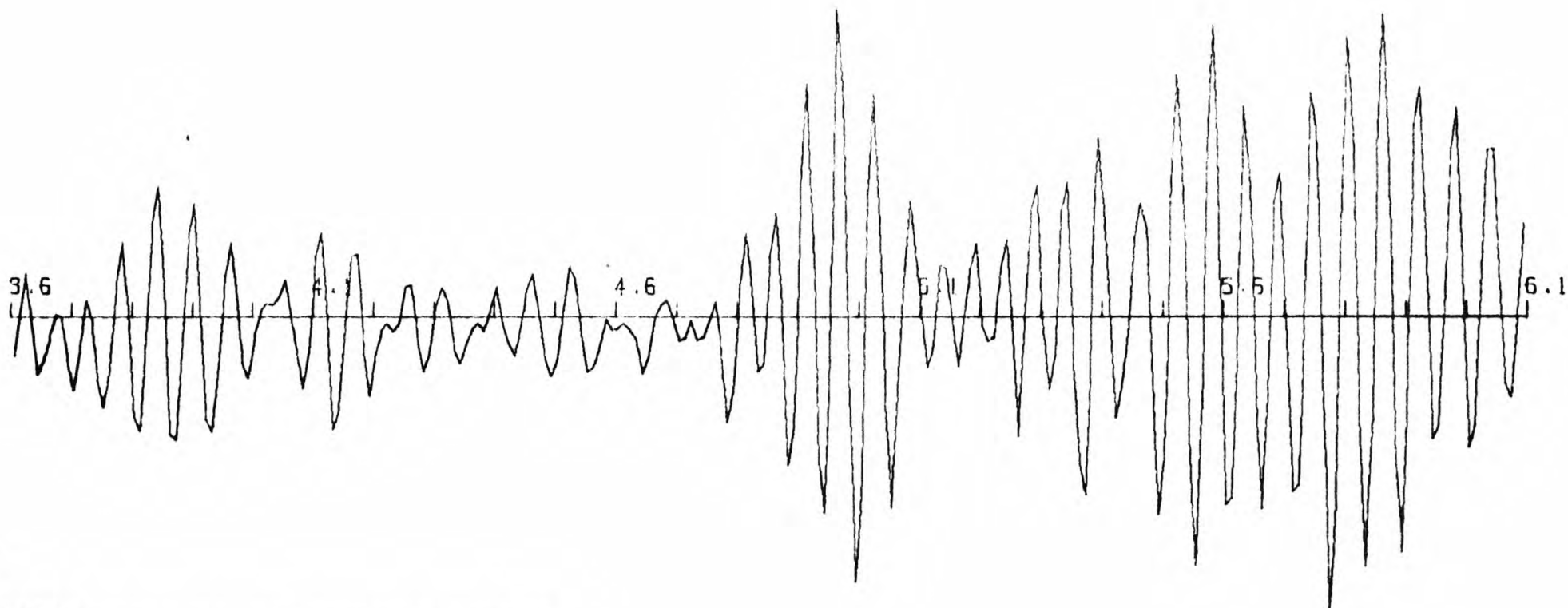
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 2

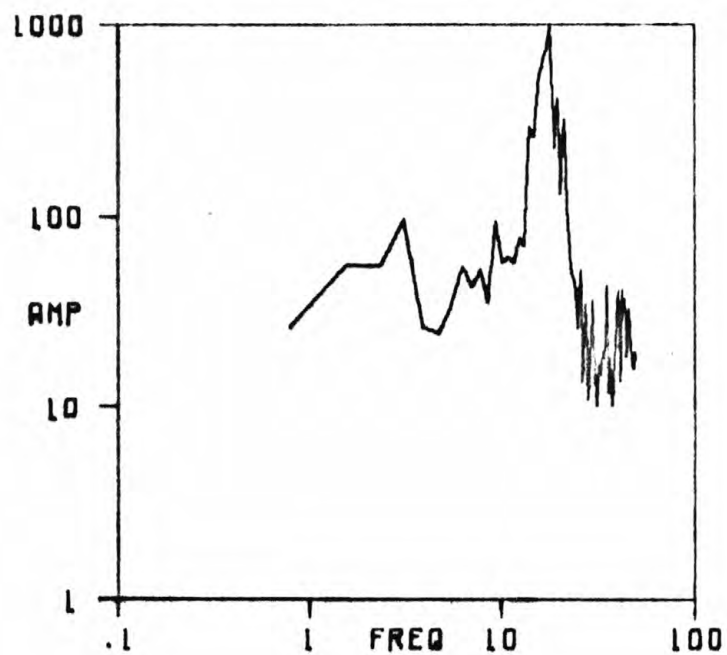
RECORDER LOCATION 287

DISTANCE FROM SHOT (KM) = 25.757

TSCALE (CM/SEC) = 10.0



191



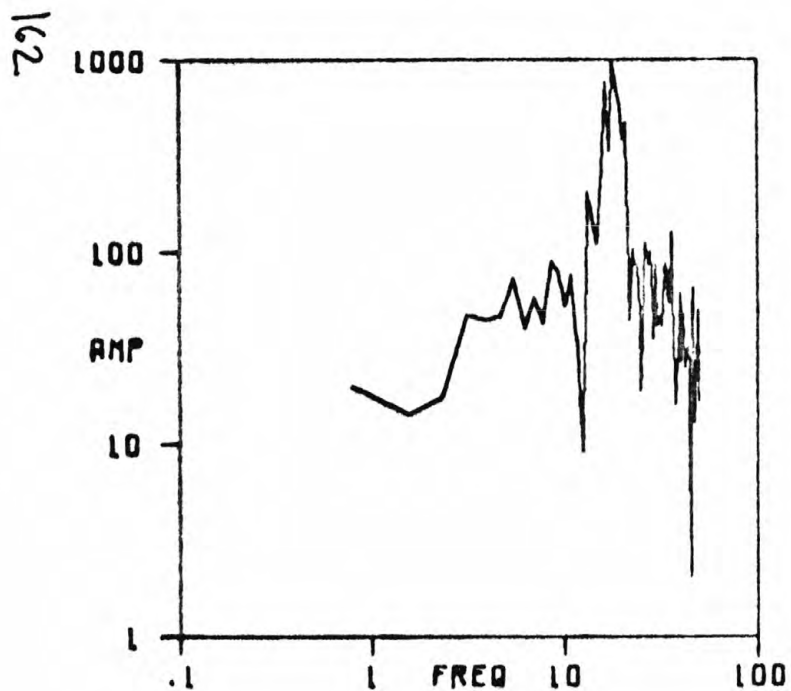
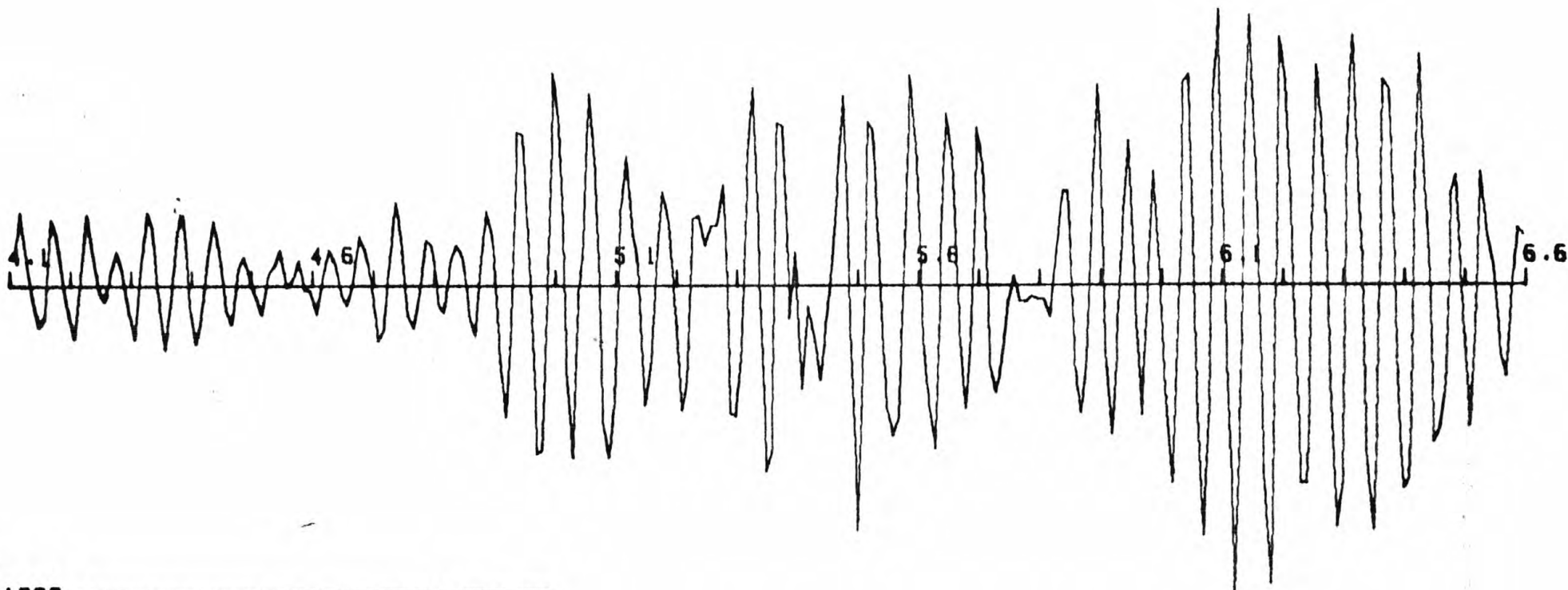
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 2

RECORDER LOCATION 286

DISTANCE FROM SHOT (KM) = 27.456

TSCALE (CM/SEC) = 10.0



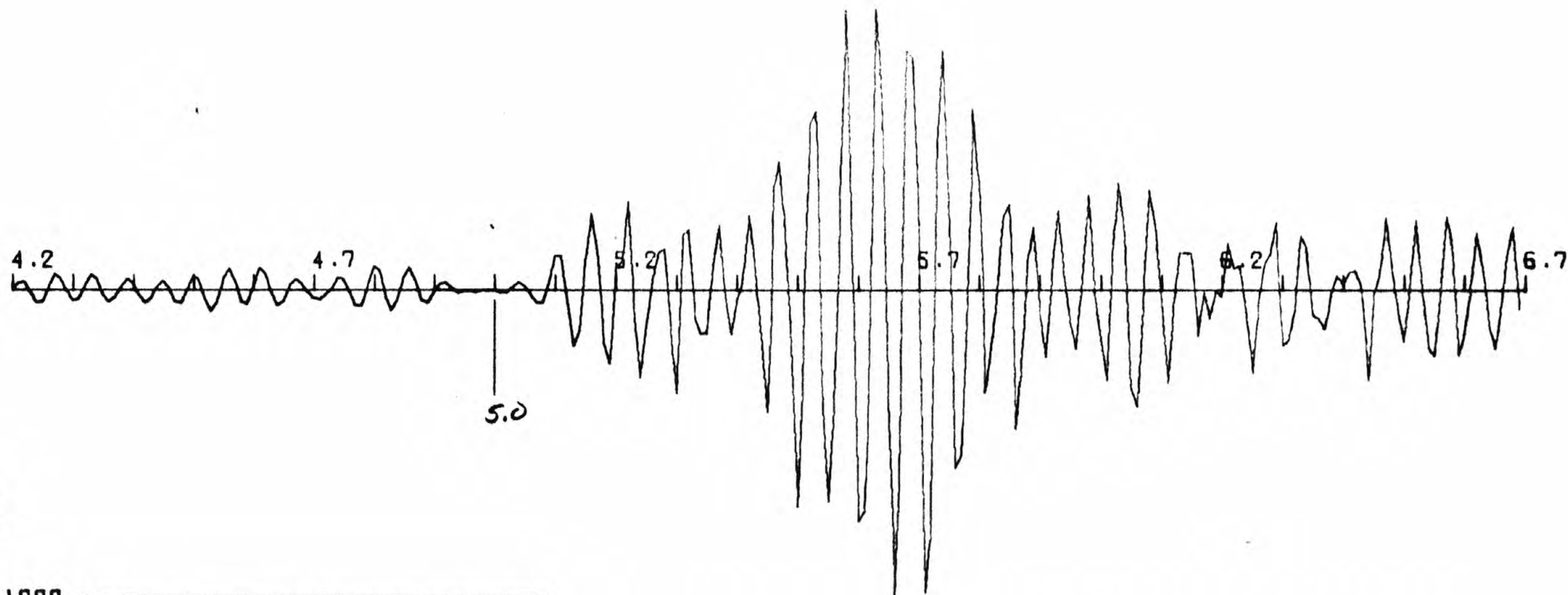
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 2

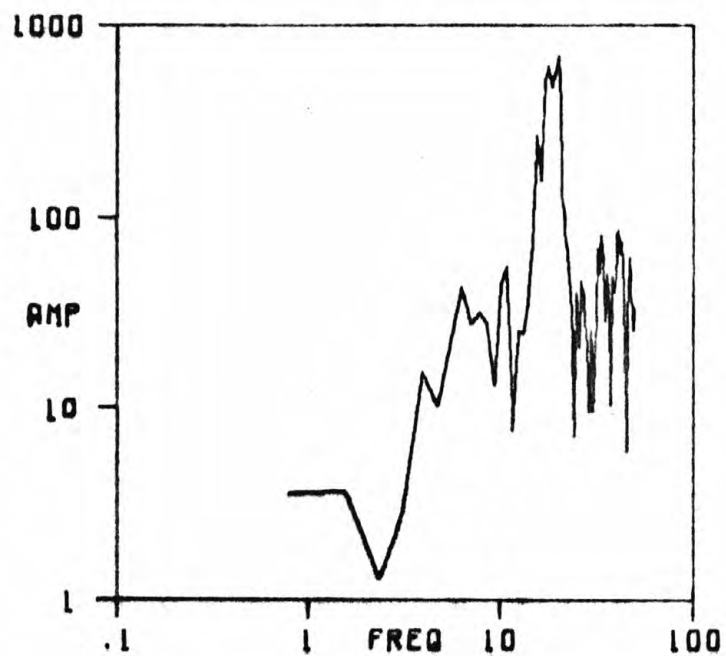
RECORDER LOCATION 284

DISTANCE FROM SHOT (KM) = 90.112

TSCALE (CM/SEC) = 10.0



163



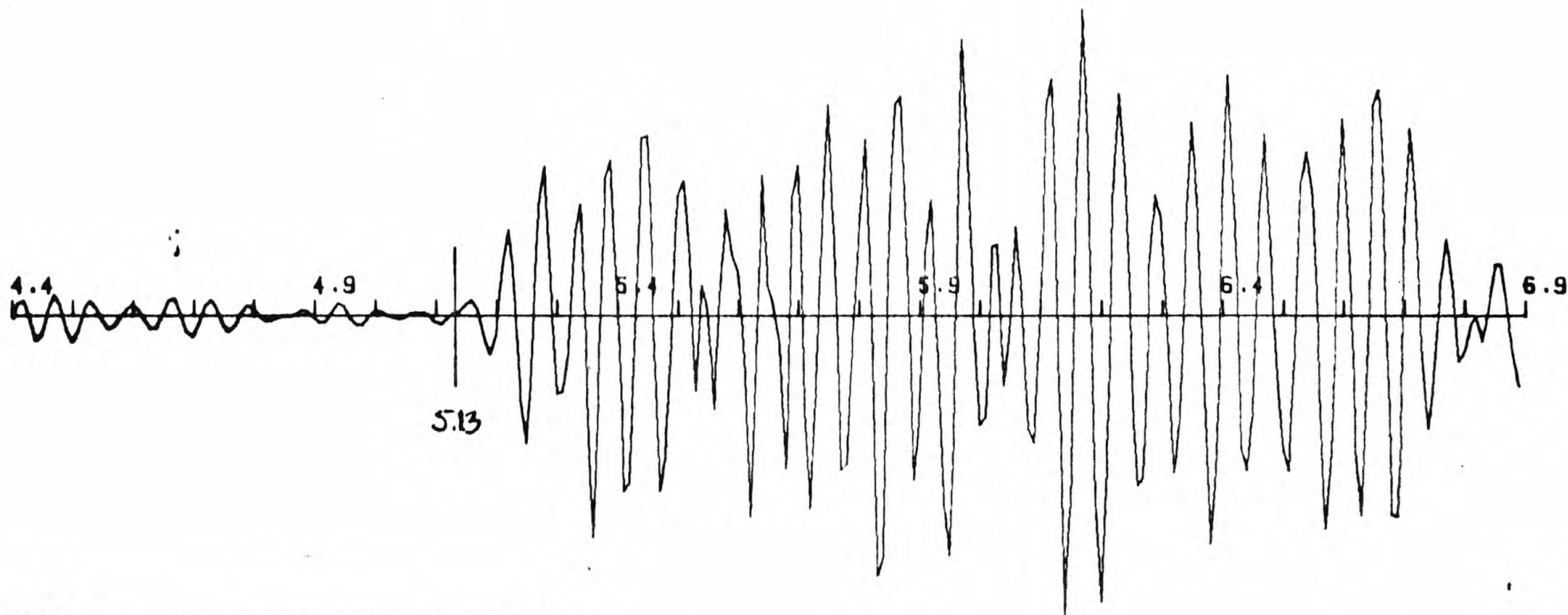
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 2

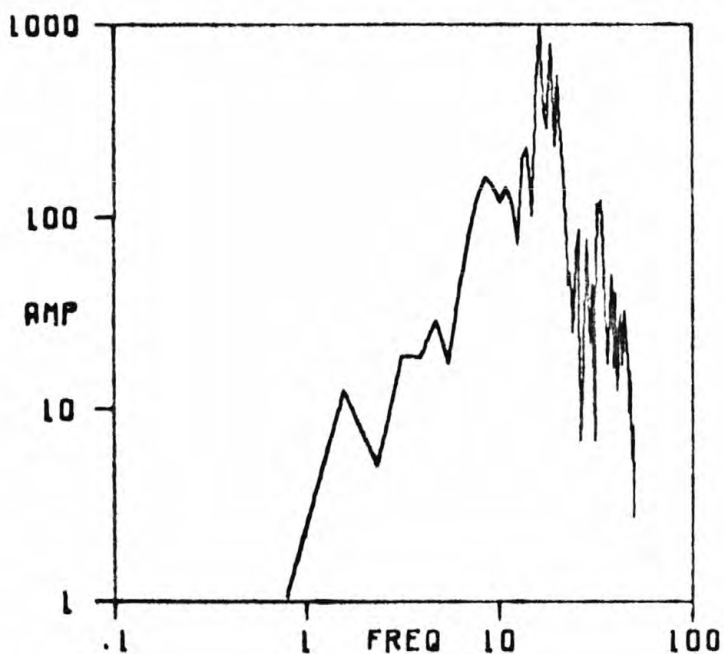
RECORDER LOCATION 283

DISTANCE FROM SHOT (KM) = 91.086

TSCALE (CM/SEC) = 10.0



164



SAUDI REFRACTION PROFILE 15.20 BP

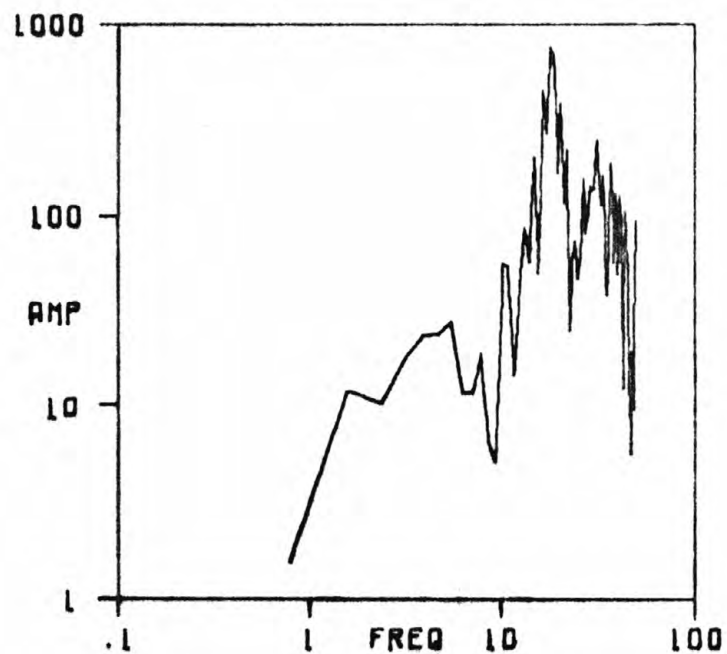
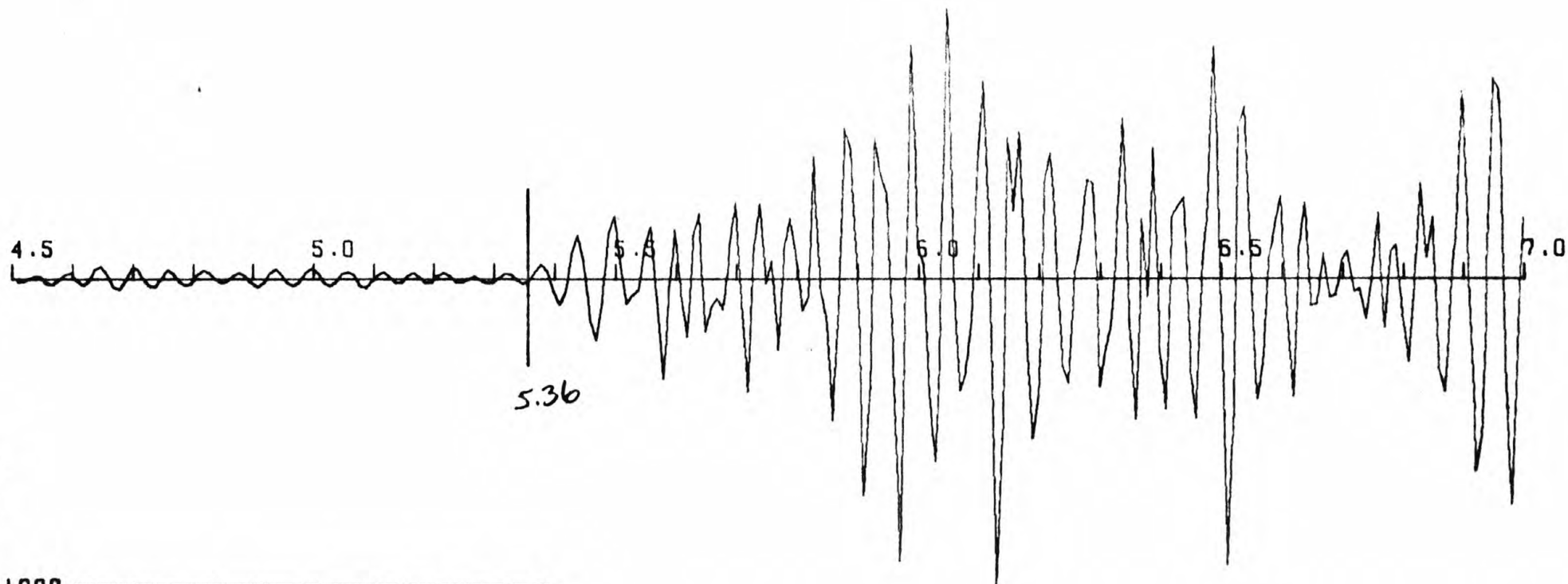
SHOT POINT 2

RECORDER LOCATION 282

DISTANCE FROM SHOT (KM) = 31.803

TSCALE (CM/SEC) = 10.0

165



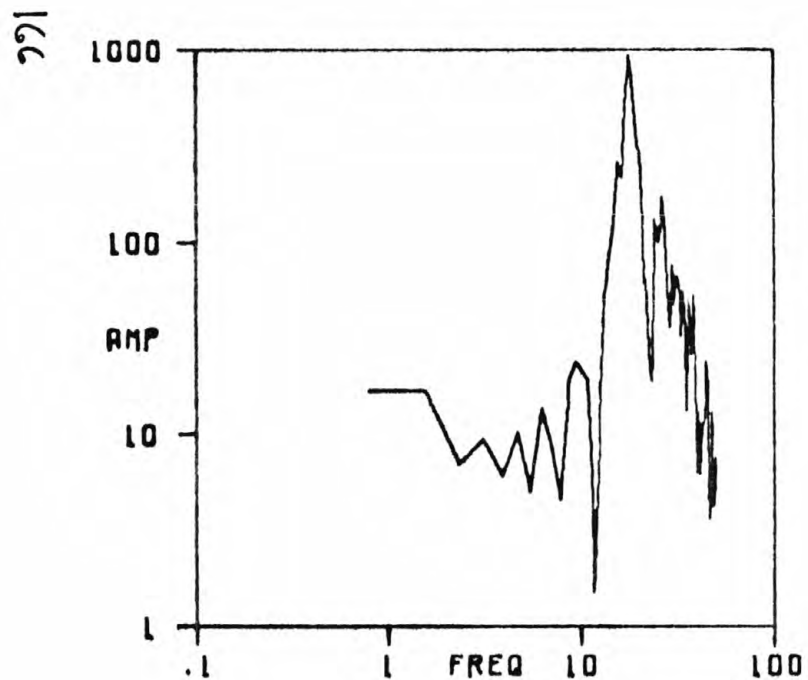
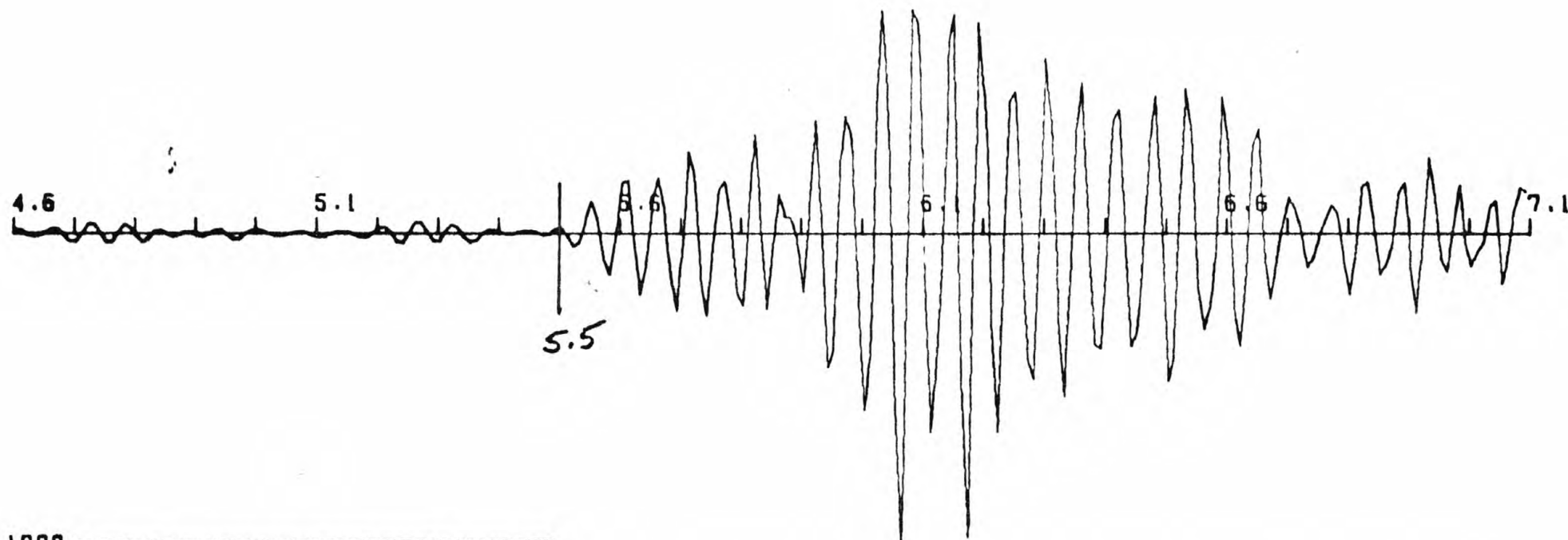
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 2

RECORDER LOCATION 281

DISTANCE FROM SHOT (KM) = 32.637

TSCALE (CM/SEC) = 10.0



SAUDI REFRACTION PROFILE 15.20 BP

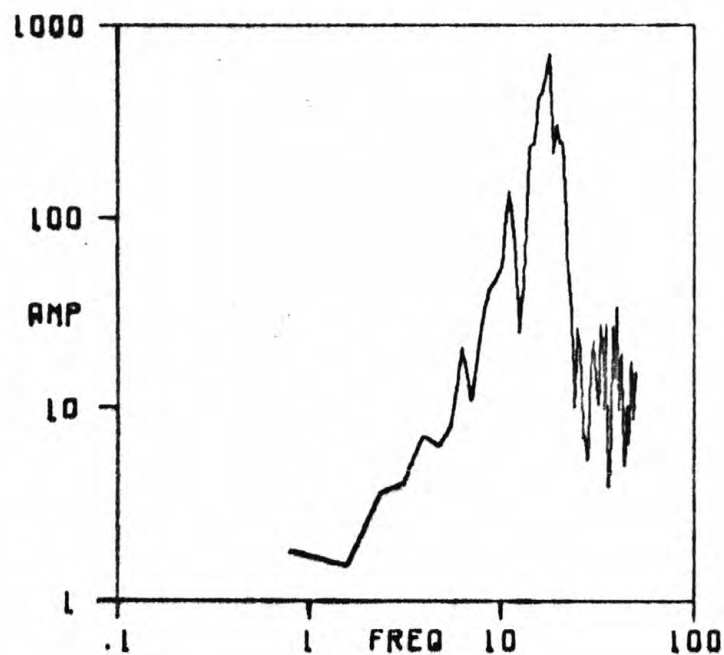
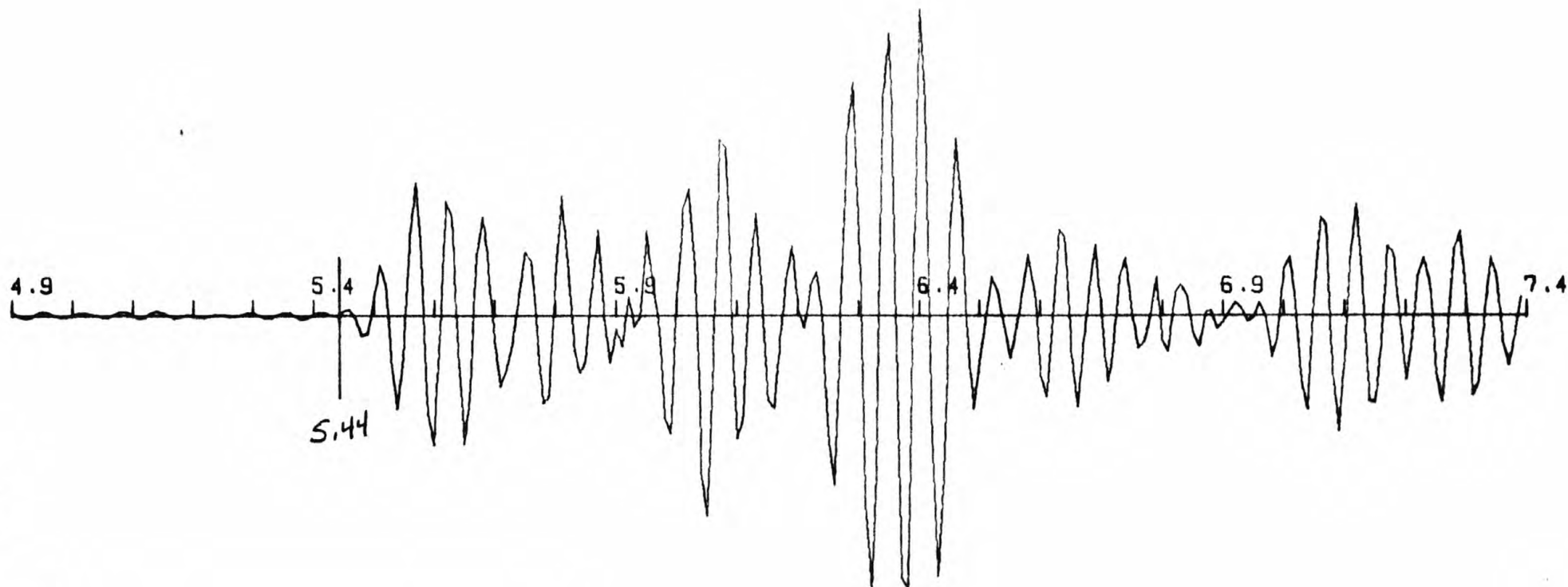
SHOT POINT 2

RECORDER LOCATION 280

DISTANCE FROM SHOT (KM) = 93.270

TSCALE (CM/SEC) = 10.0

167



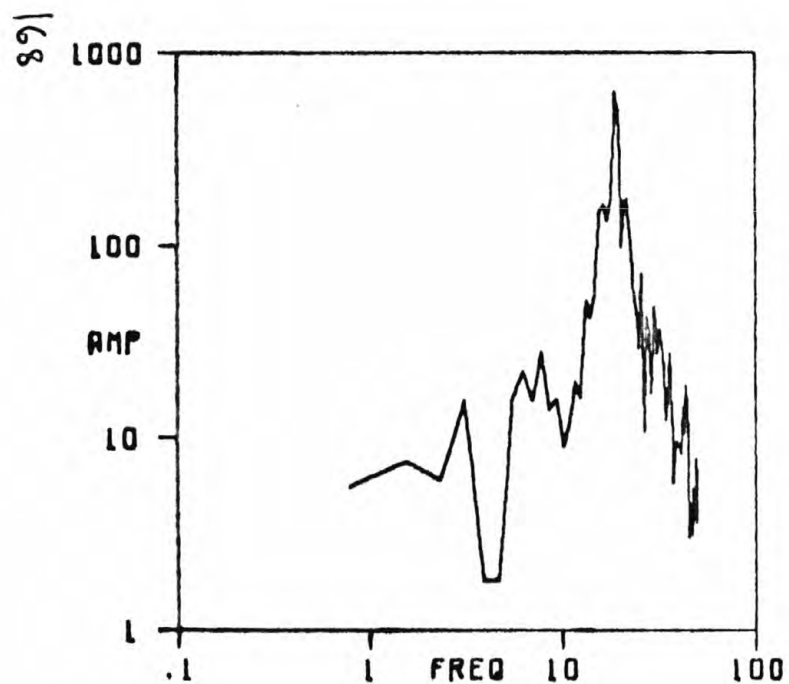
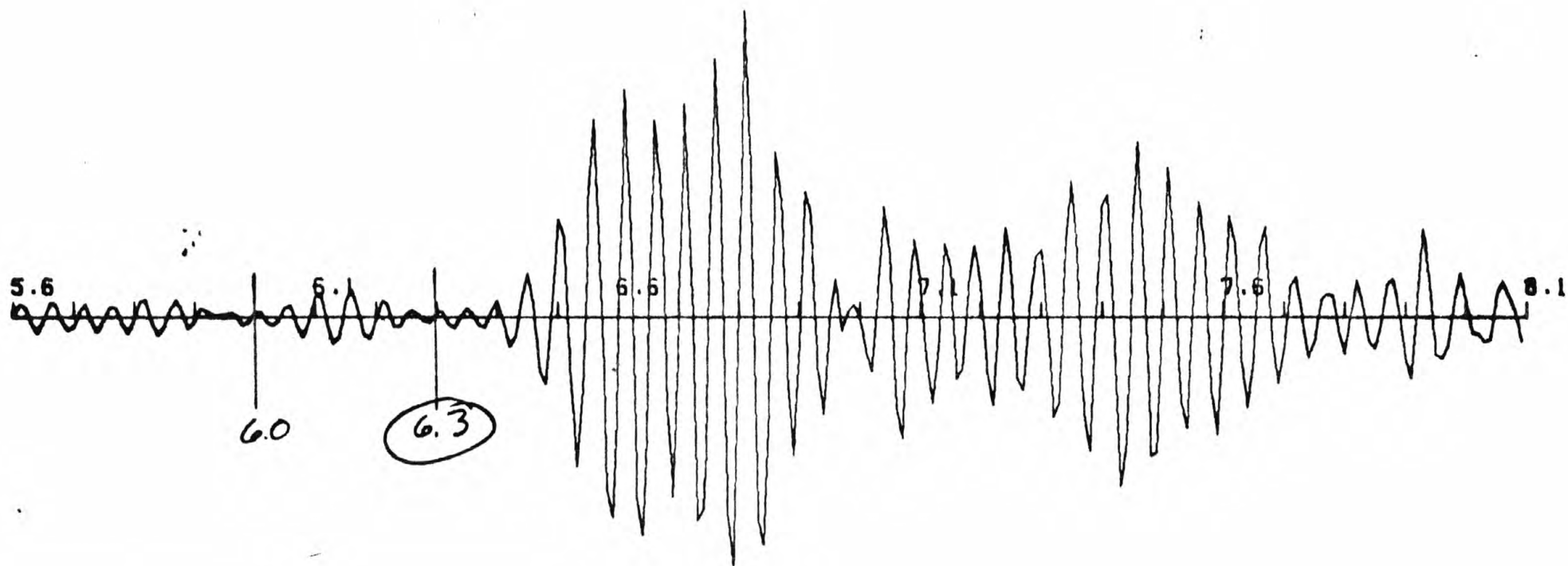
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 2

RECORDER LOCATION 279

DISTANCE FROM SHOT (KM) = 34.814

TSCALE (CM/SEC) = 10.0



SAUDI REFRACTION PROFILE 15.20 BP

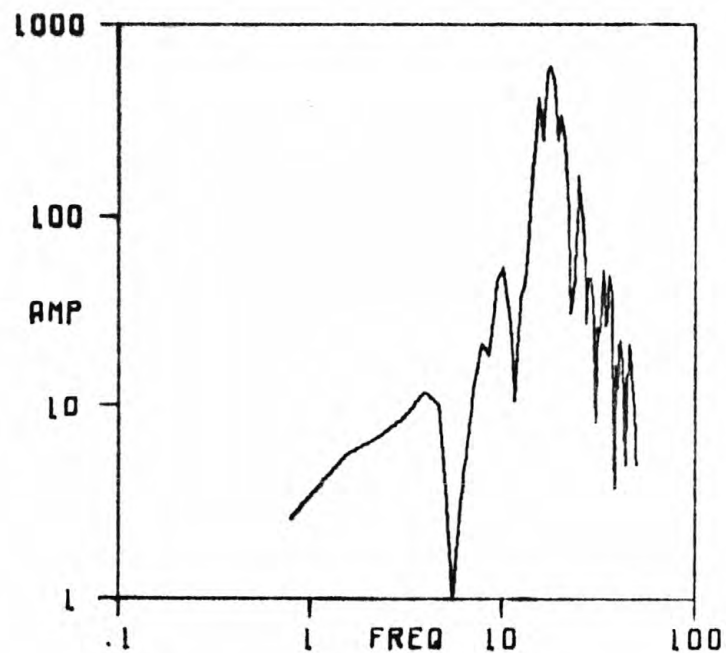
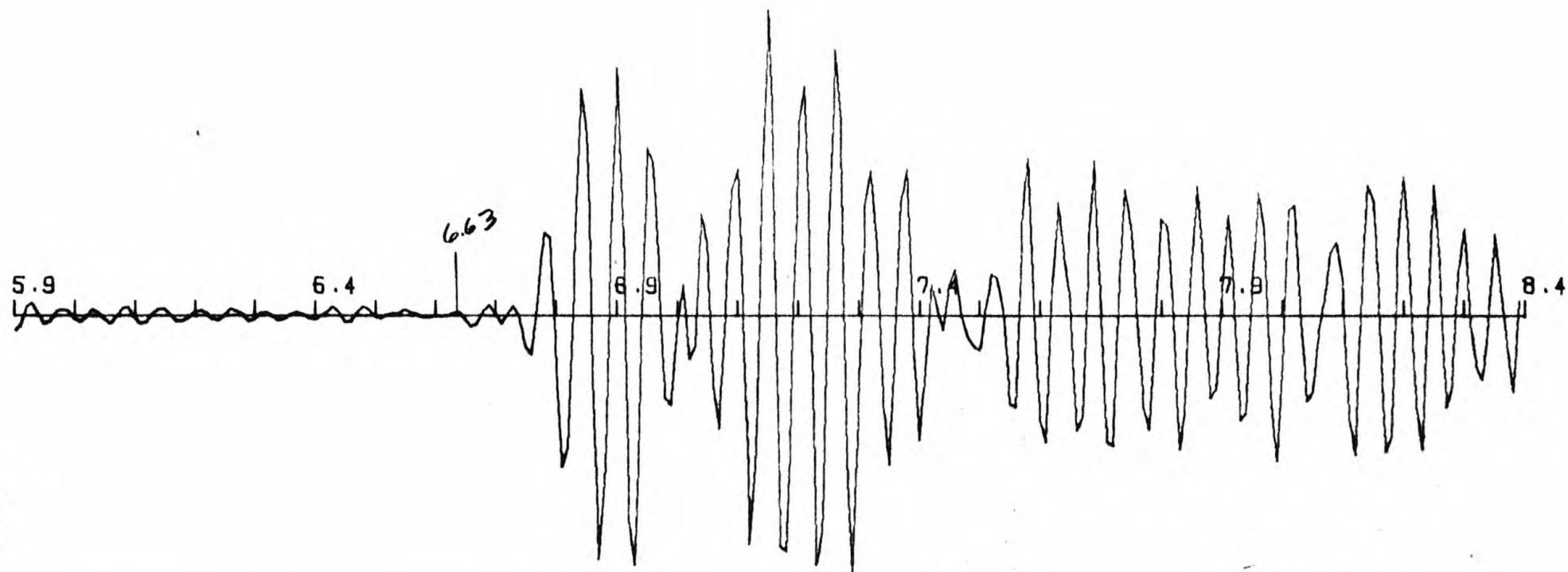
SHOT POINT 2

RECORDER LOCATION 276

DISTANCE FROM SHOT (KM) = 39.191

TSCALE (CM/SEC) = 10.0

169



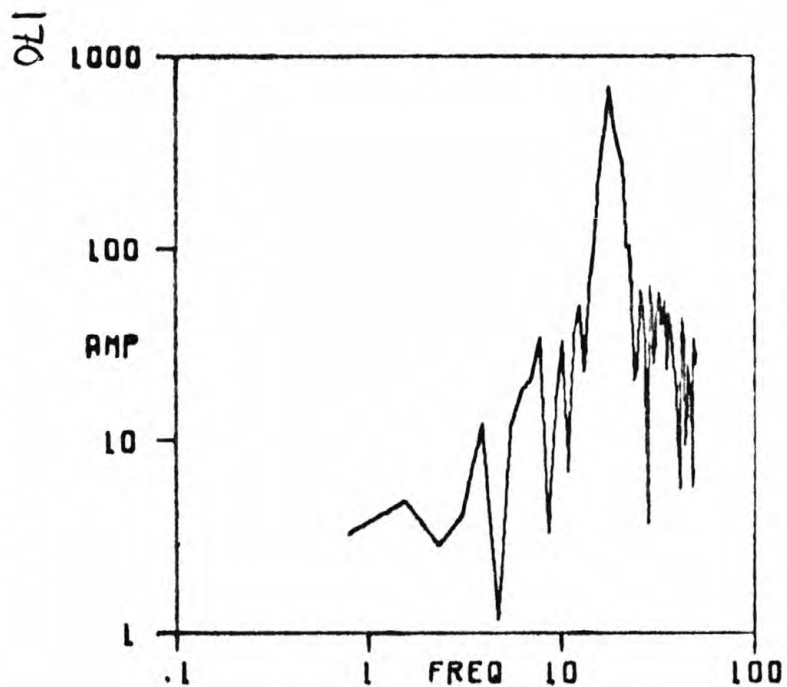
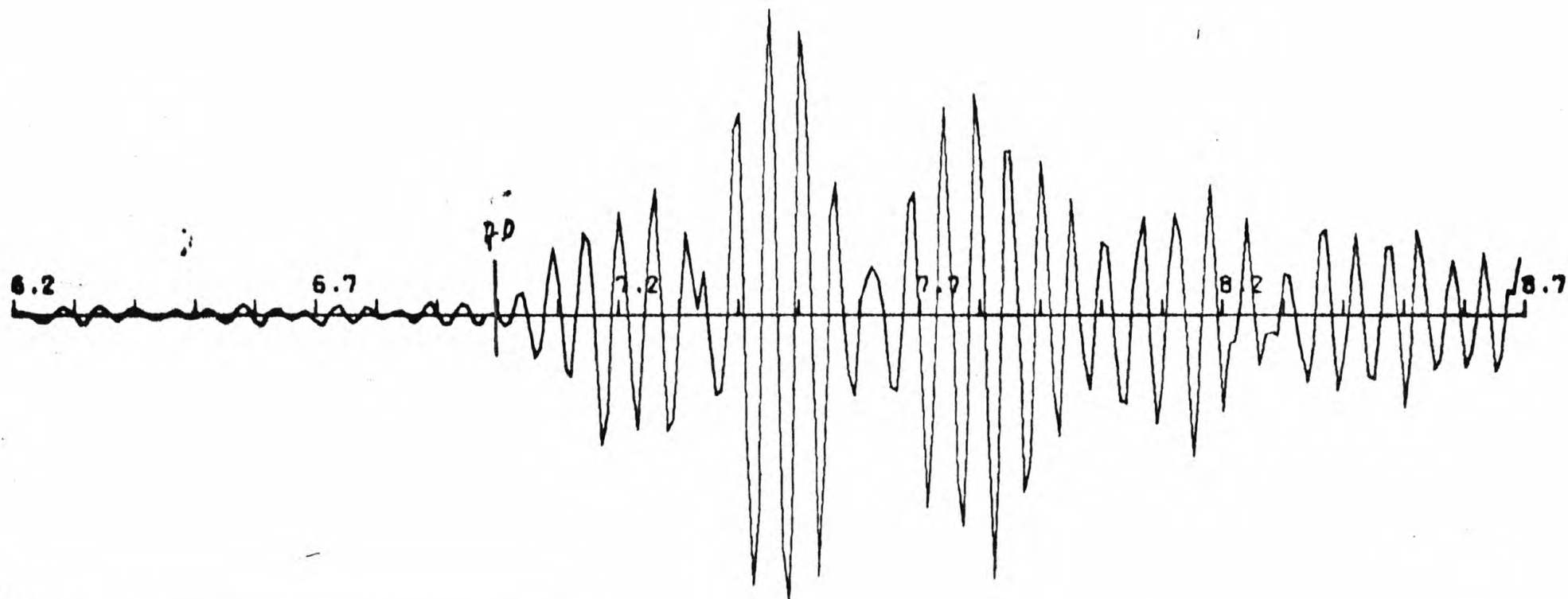
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 2

RECORDER LOCATION 275

DISTANCE FROM SHOT (KM) = 41.110

TSCALE (CM/SEC) = 10.0



SAUDI REFRACTION PROFILE 15.20 BP

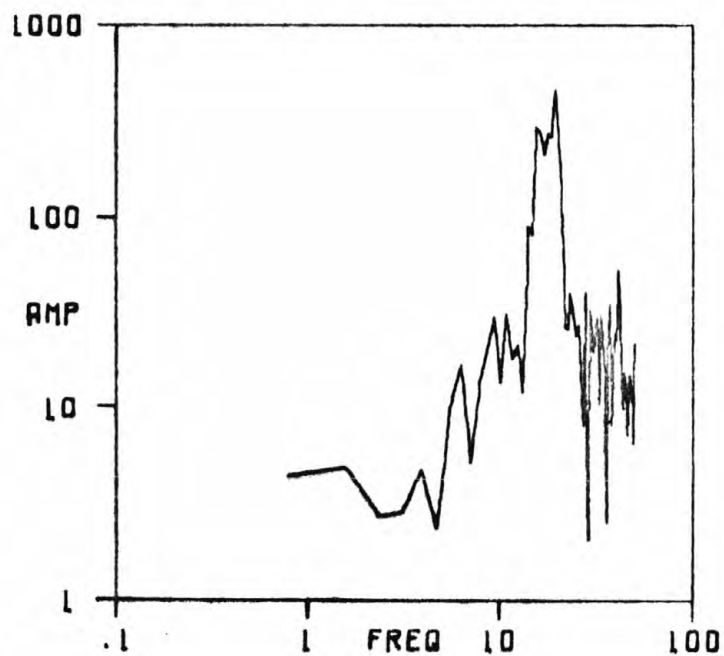
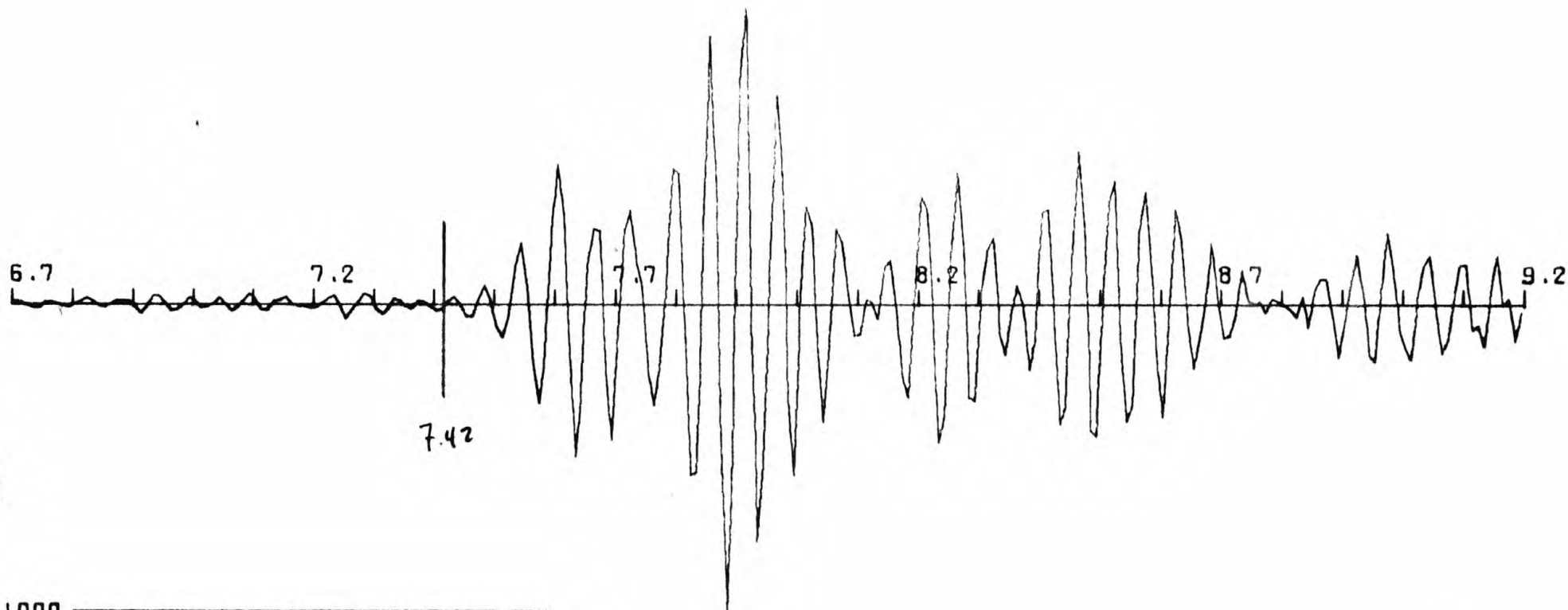
SHOT POINT 2

RECORDER LOCATION 274

DISTANCE FROM SHOT (KM) = 42.739

TSCALE (CM/SEC) = 10.0

171



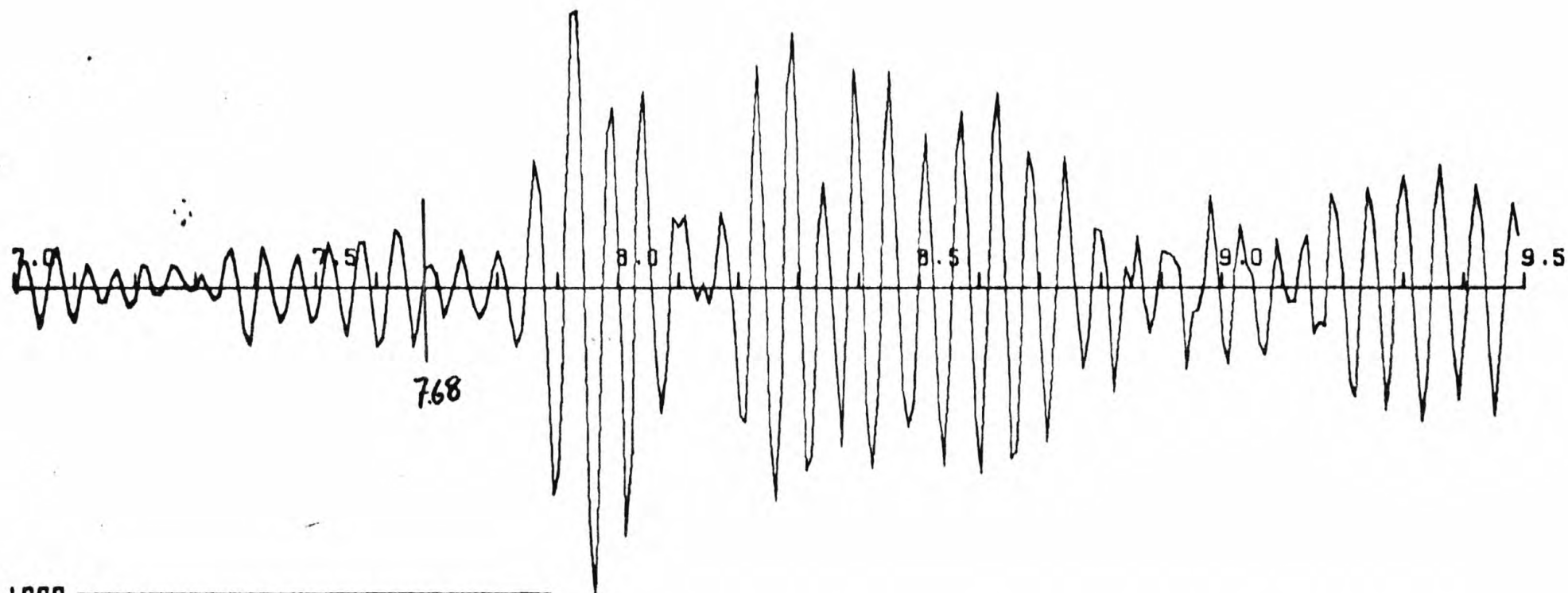
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 2

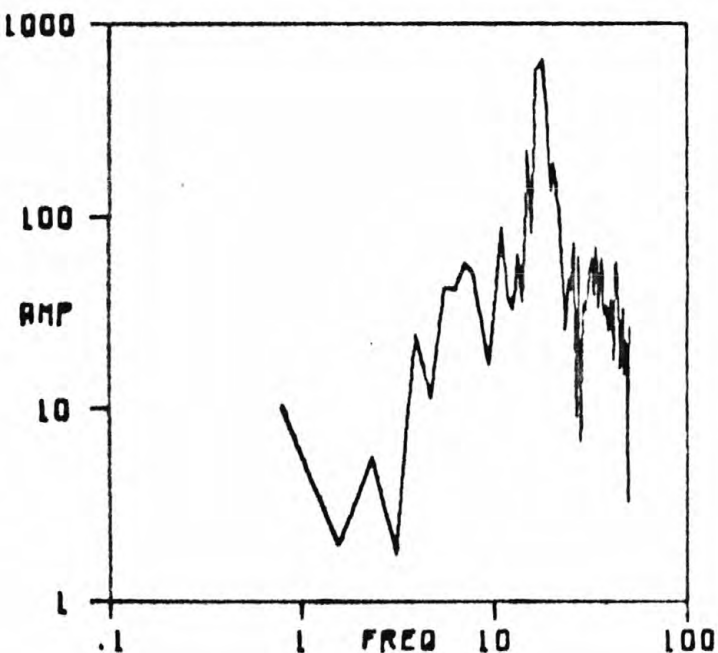
RECORDER LOCATION 273

DISTANCE FROM SHOT (KM) = 45.817

TSCALE (CM/SEC) = 10.0



172



SAUDI REFRACTION PROFILE 15.20 BP

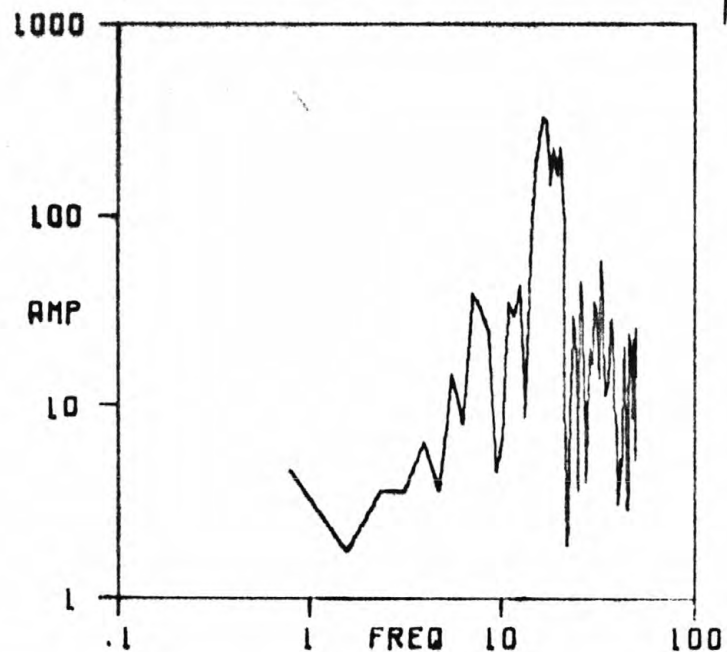
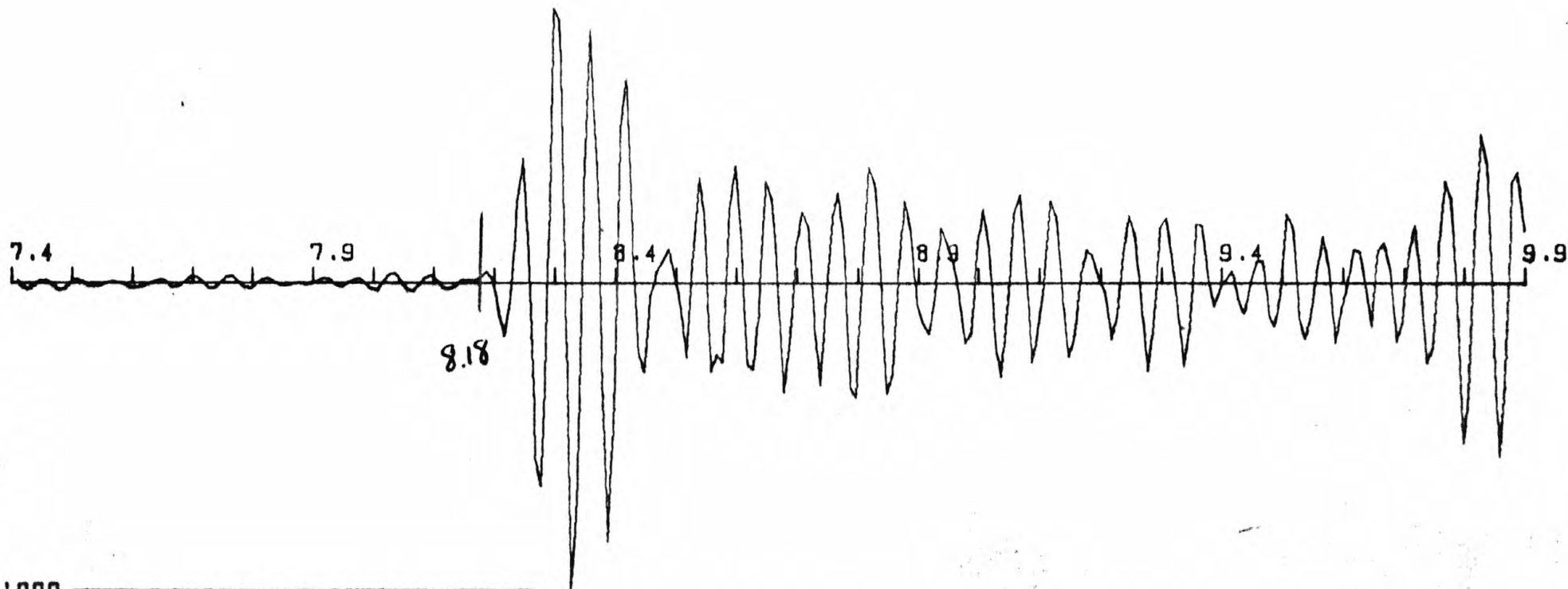
SHOT POINT 2

RECORDER LOCATION 272

DISTANCE FROM SHOT (KM) = 47.837

TSCALE (CM/SEC) = 10.0

173



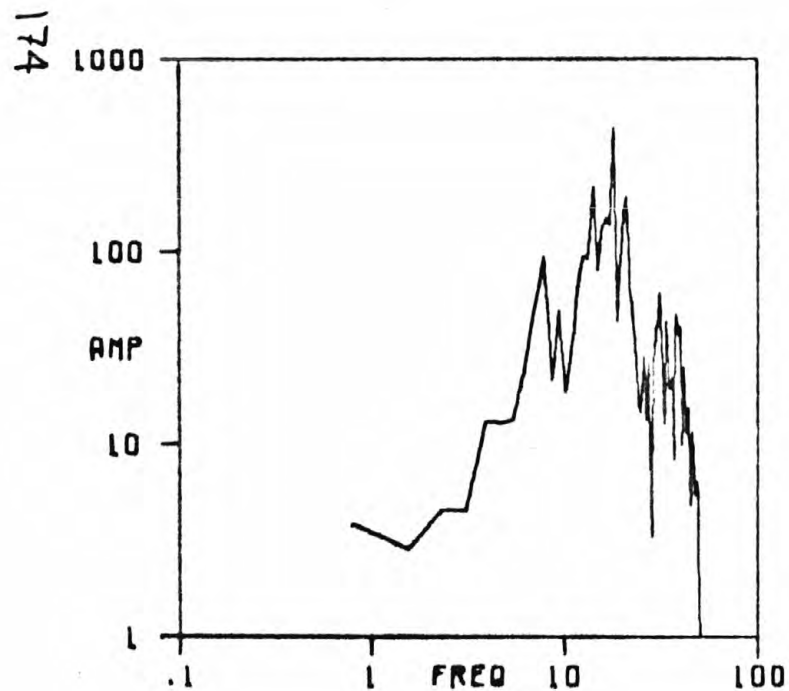
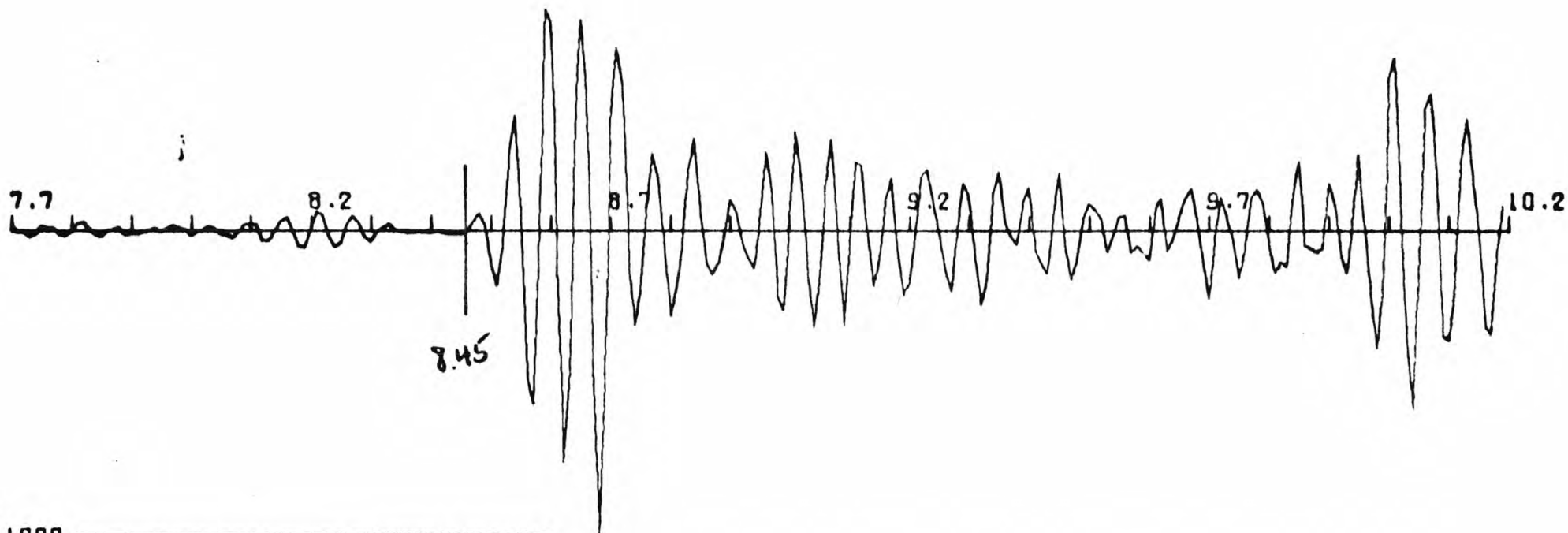
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 2

RECORDER LOCATION 271

DISTANCE FROM SHOT (KM) = 49.914

TSCALE (CM/SEC) = 10.0



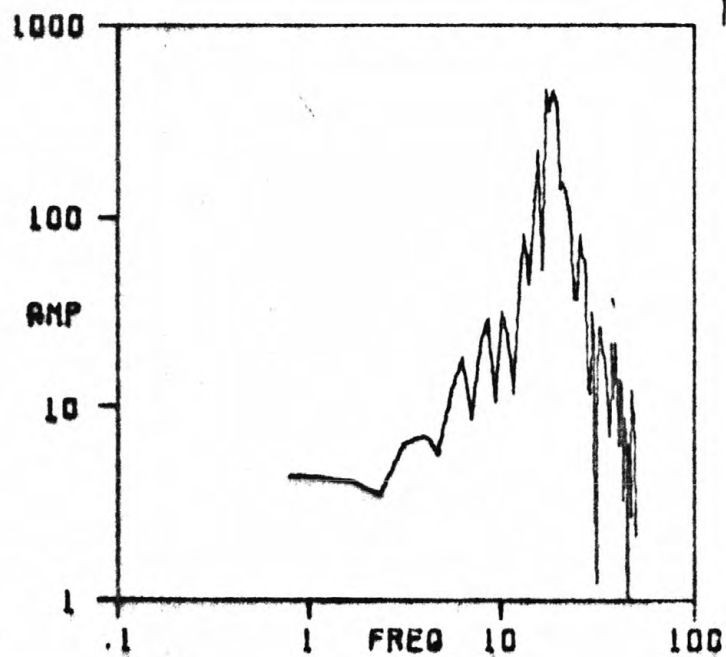
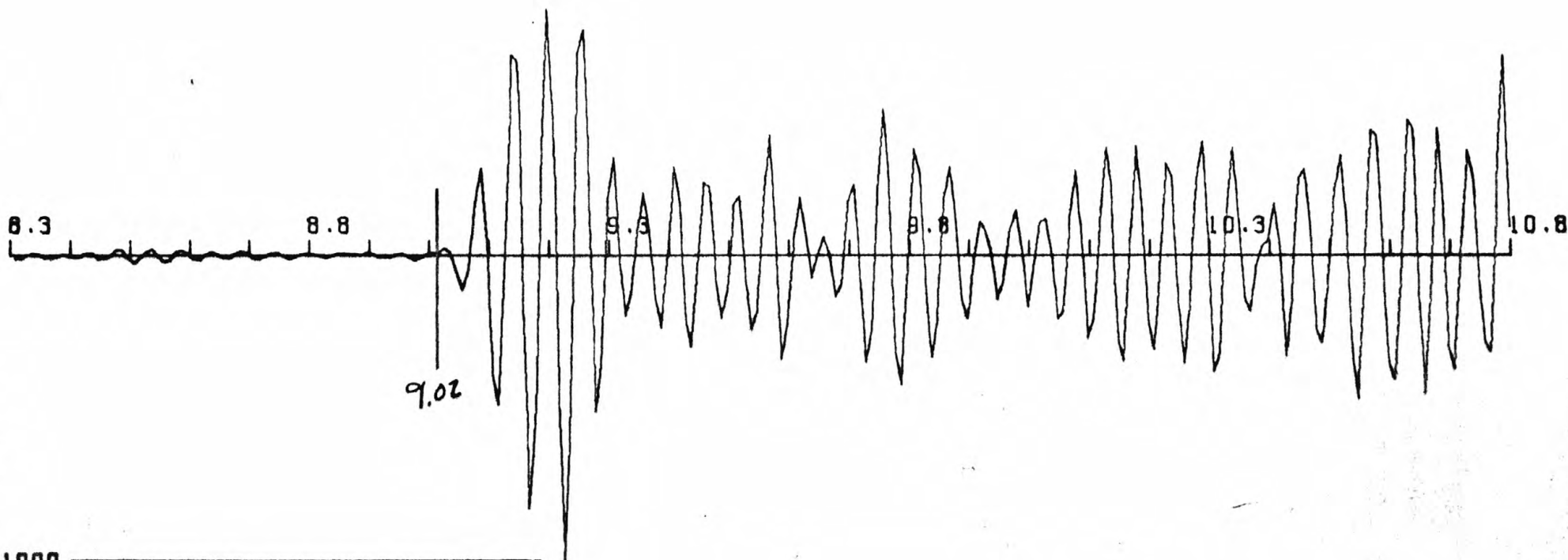
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 2

RECORDER LOCATION 270

DISTANCE FROM SHOT (KM) = 52.148

TSCALE (CM/SEC) = 10.0



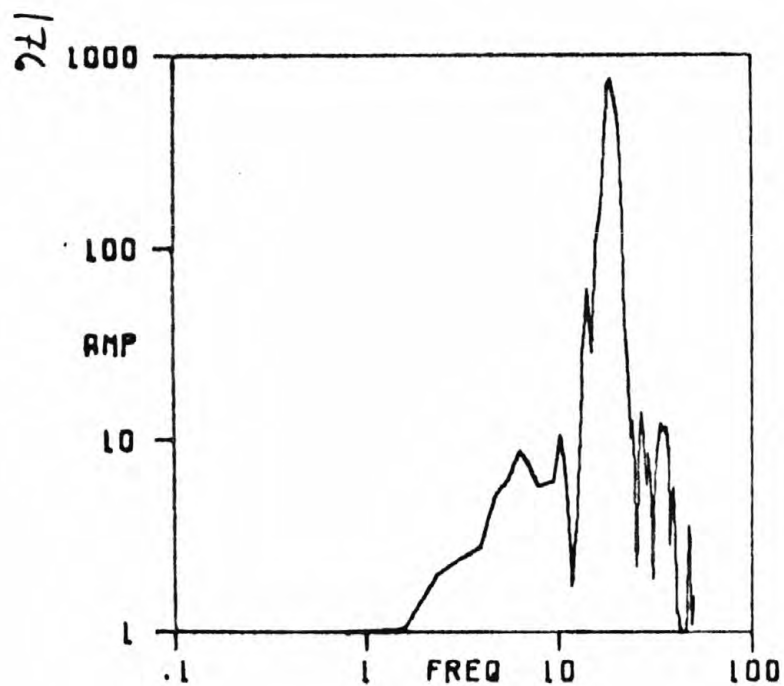
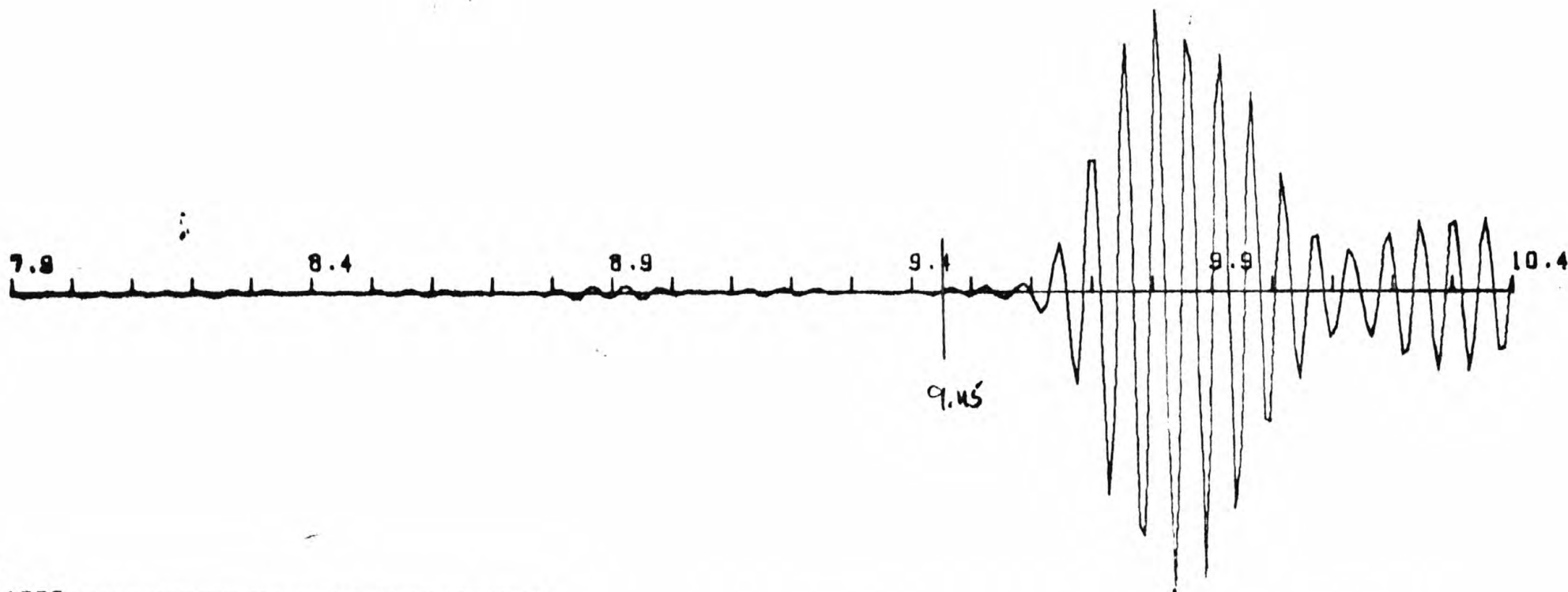
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 2

RECORDER LOCATION 268

DISTANCE FROM SHOT (KM) = 55.553

TSCALE (CM/SEC) = 10.0



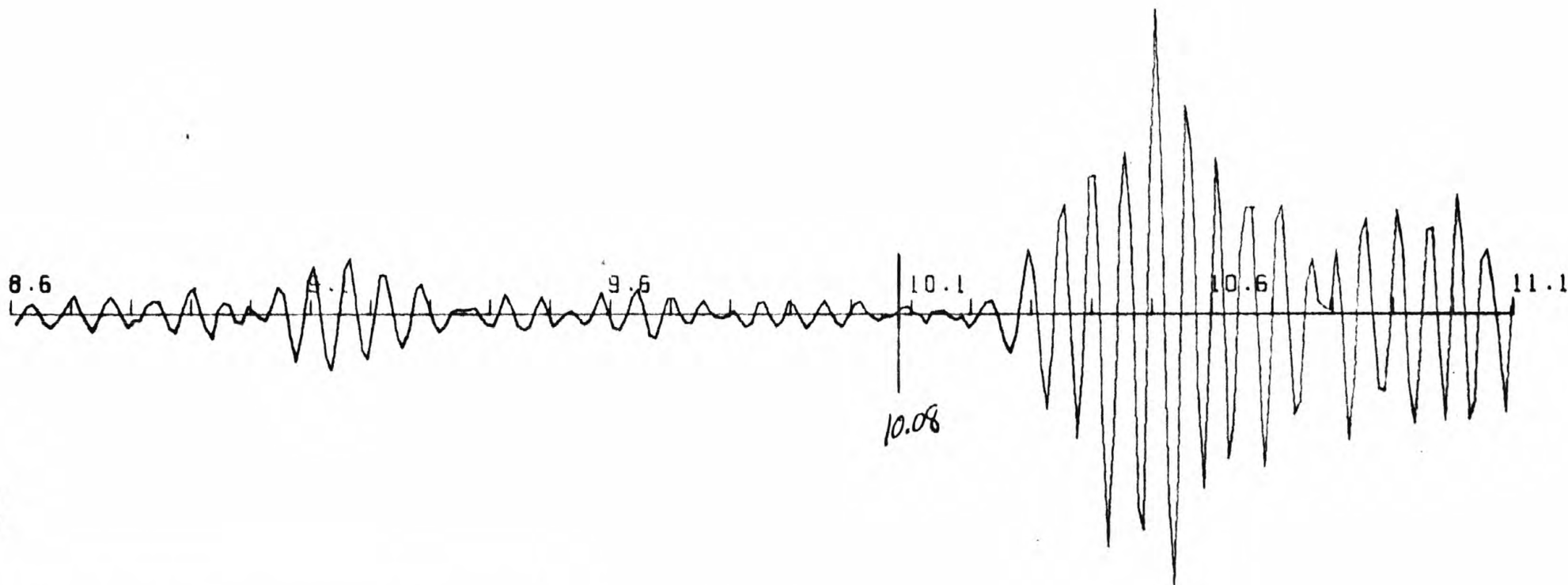
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 2

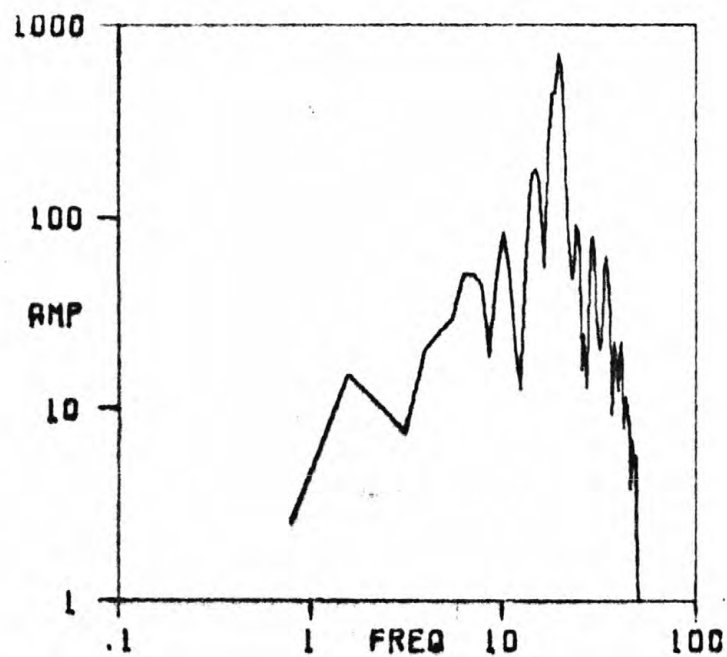
RECORDER LOCATION 266

DISTANCE FROM SHOT (KM) = 59.147

TSCALE (CM/SEC) = 10.0



177



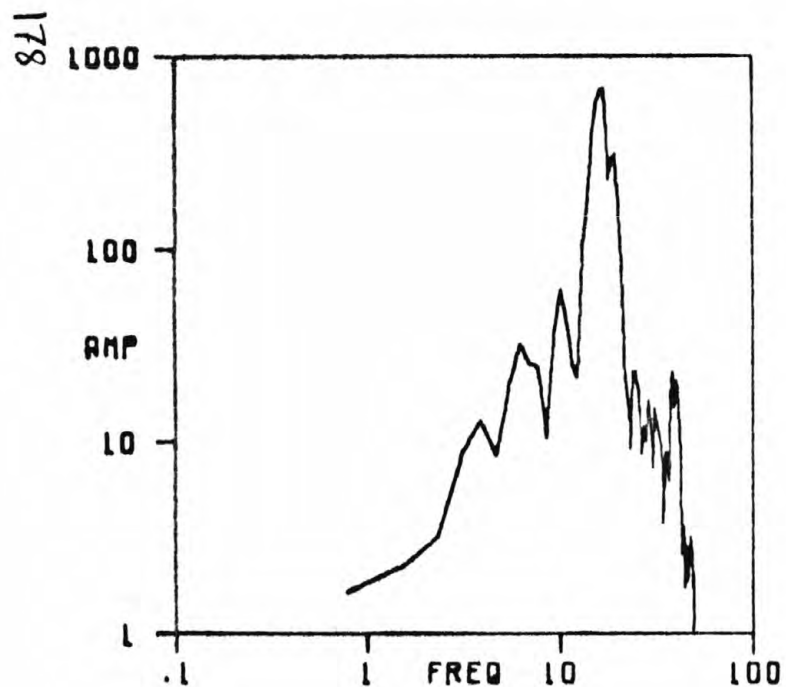
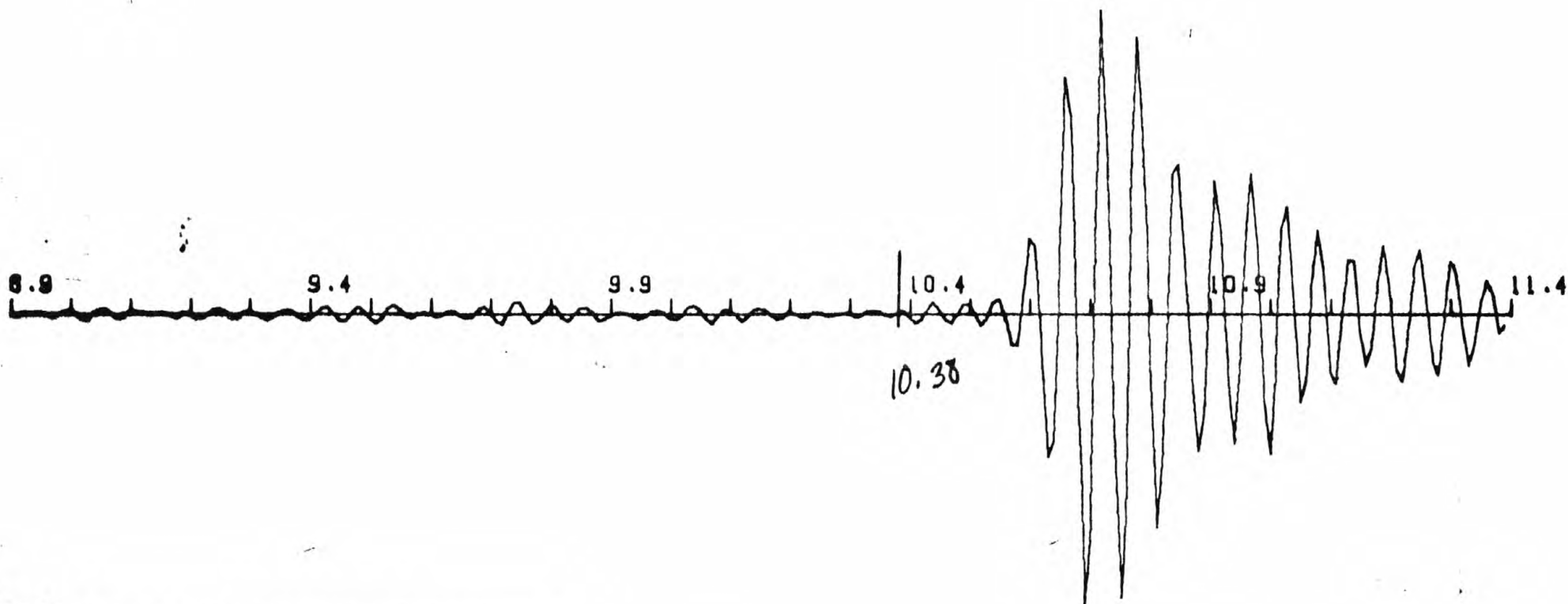
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 2

RECORDER LOCATION 264

DISTANCE FROM SHOT (KM) = 69.947

TS SCALE (CM/SEC) = 10.0



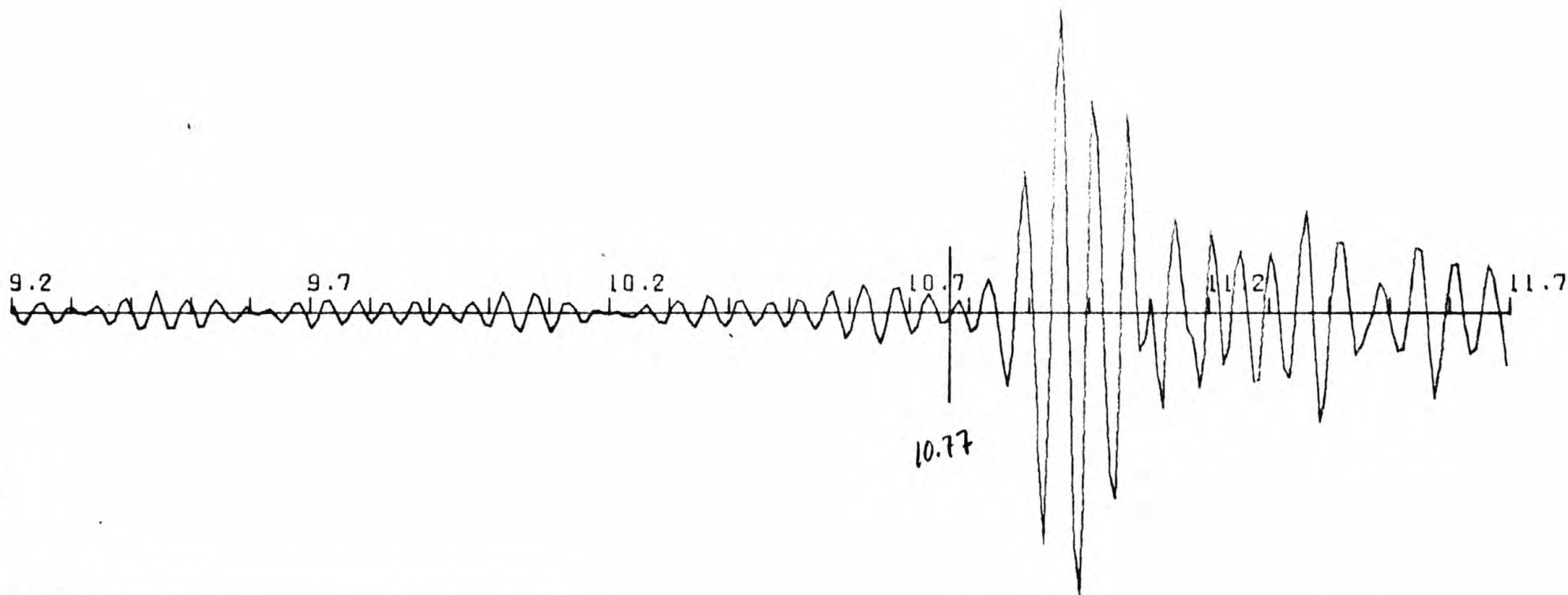
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 2

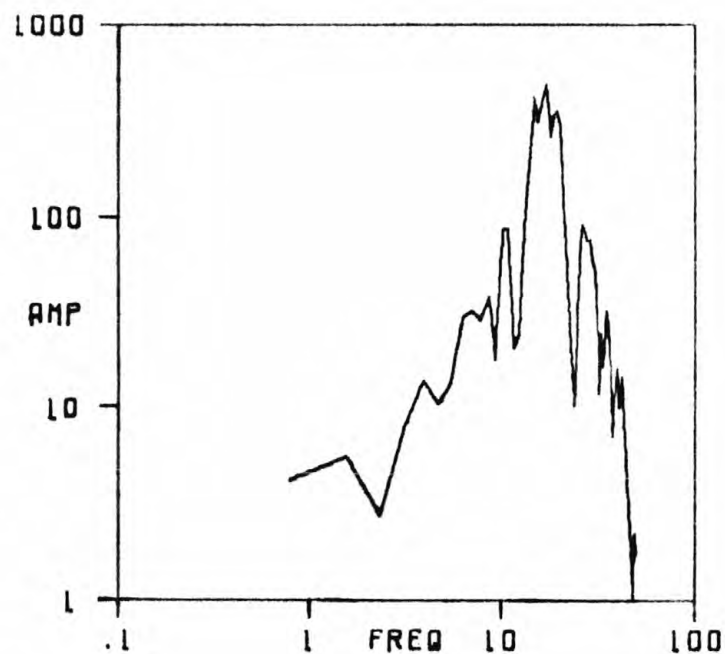
RECORDER LOCATION 263

DISTANCE FROM SHOT (KM) = 65.161

TSCALE (CM/SEC) = 10.0



179



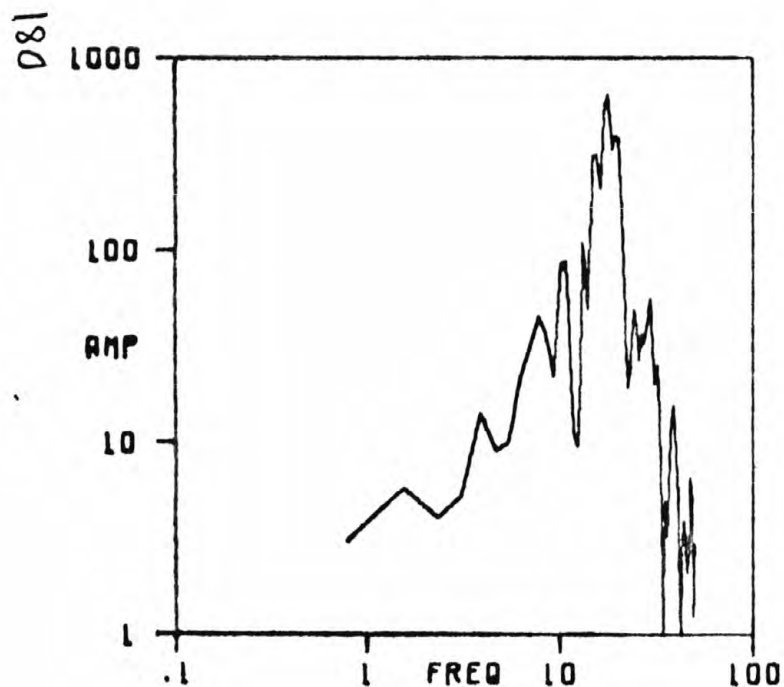
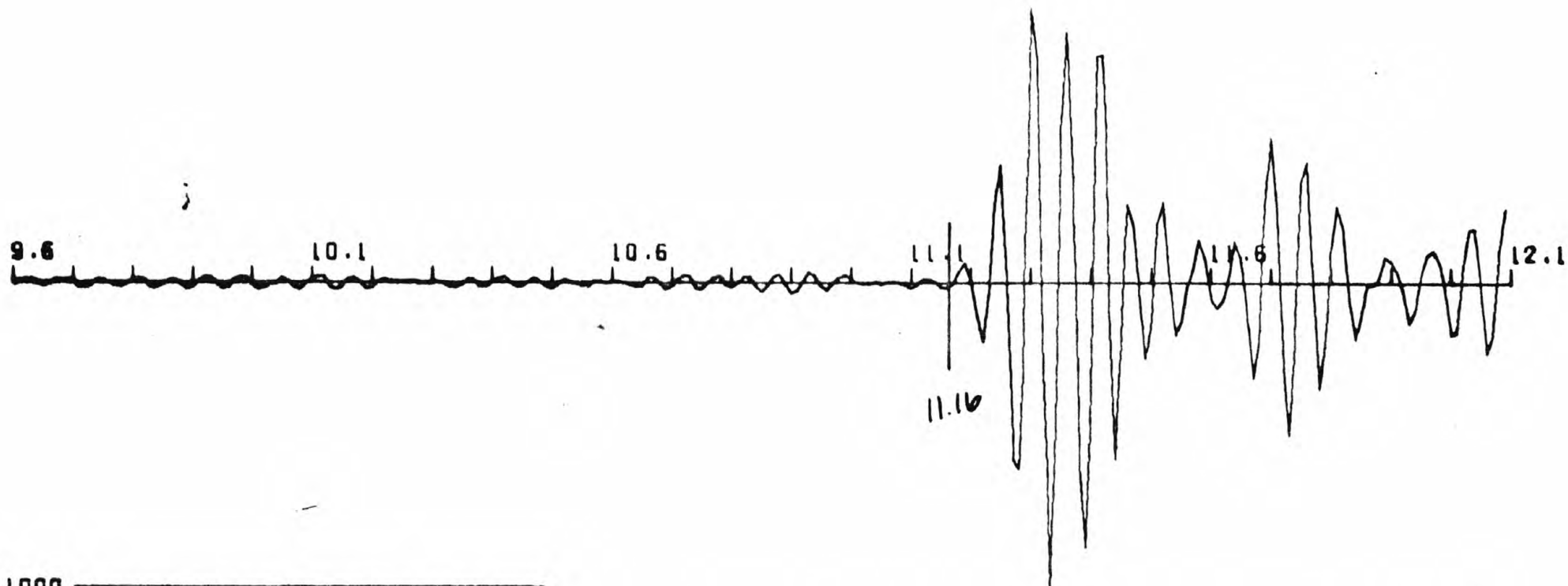
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 2

RECORDER LOCATION 262

DISTANCE FROM SHOT (KM) = 66.930

TSCALE (CM/SEC) = 10.0



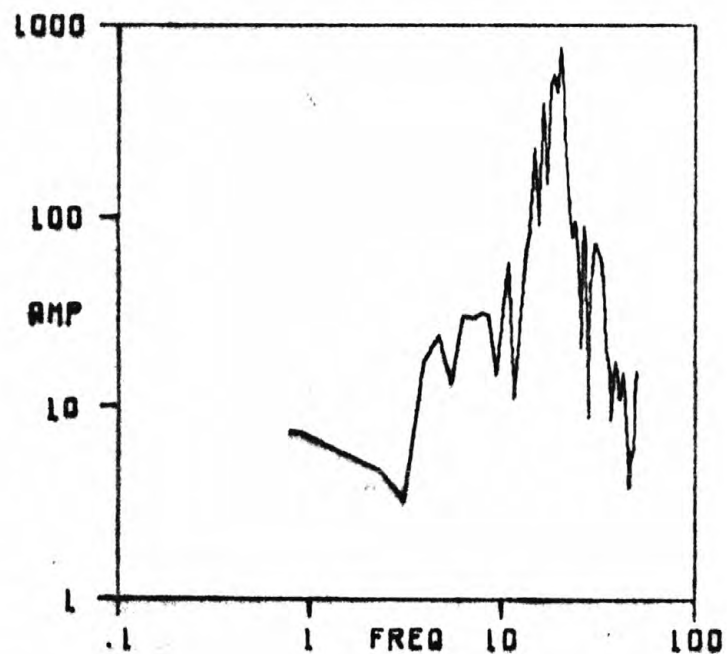
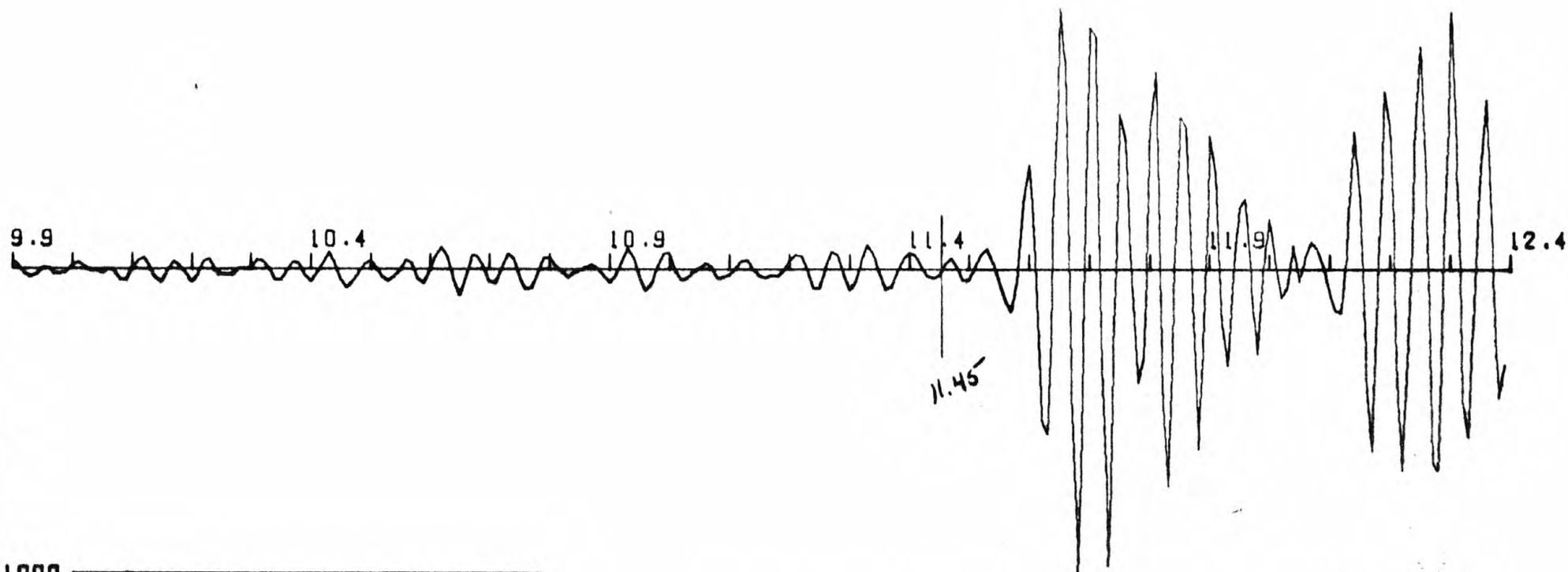
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 2

RECORDER LOCATION 261

DISTANCE FROM SHOT (KM) = 69.132

TSCALE (CM/SEC) = 10.0



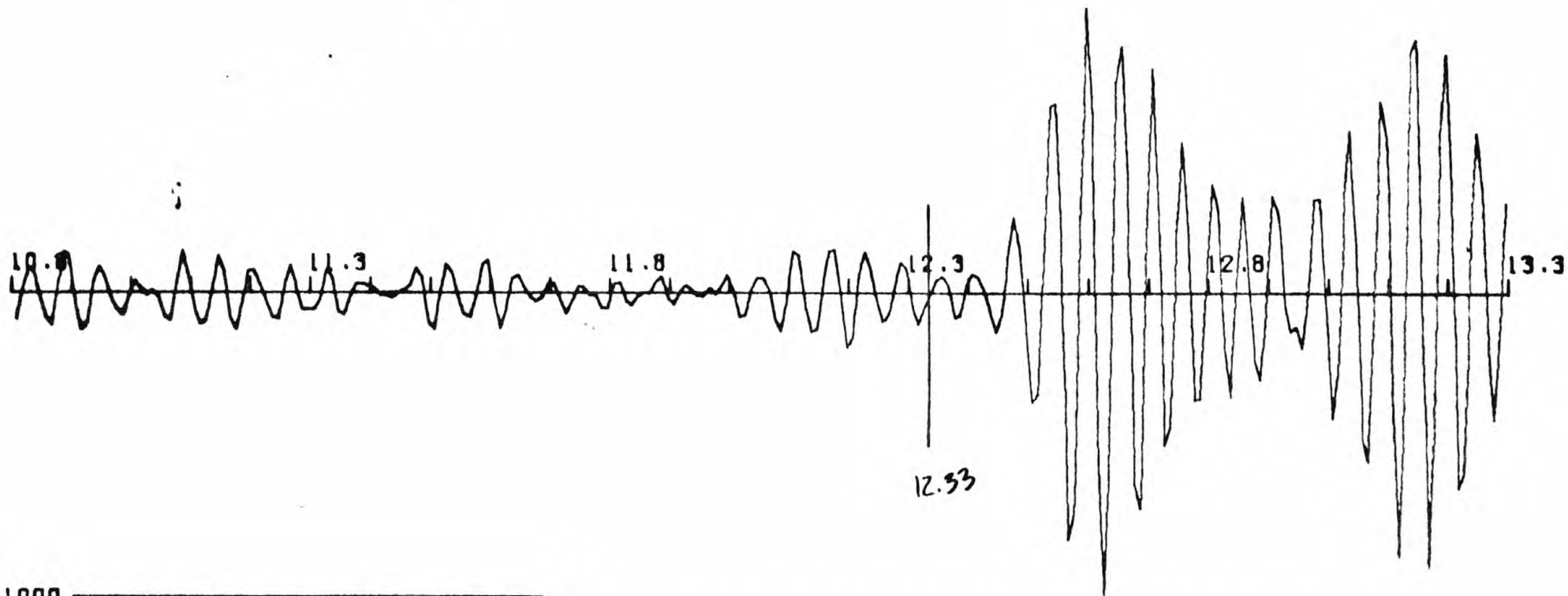
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 2

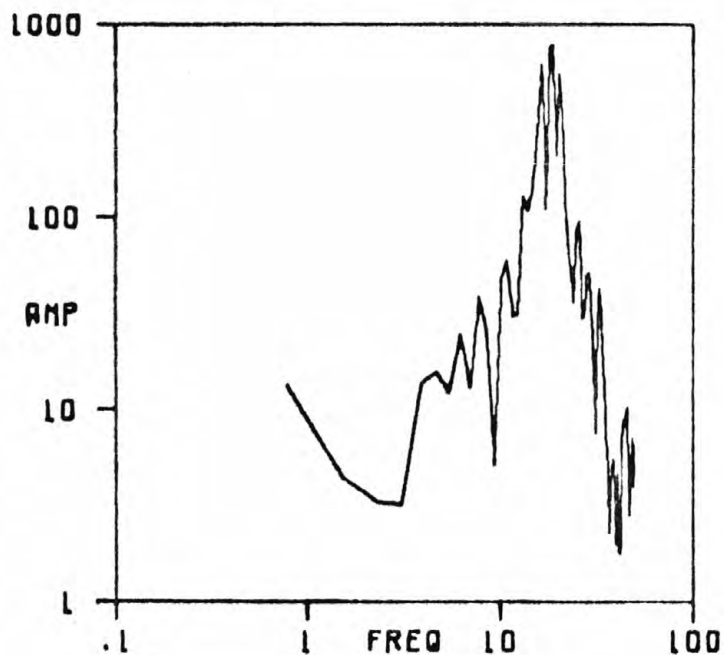
RECORDER LOCATION 260

DISTANCE FROM SHOT (KM) = 71.359

TSCALE (CM/SEC) = 10.0



182



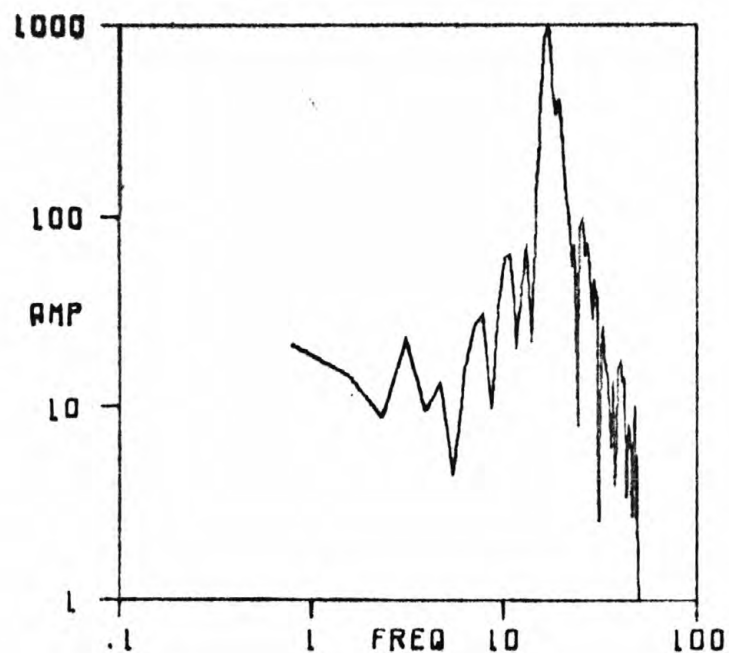
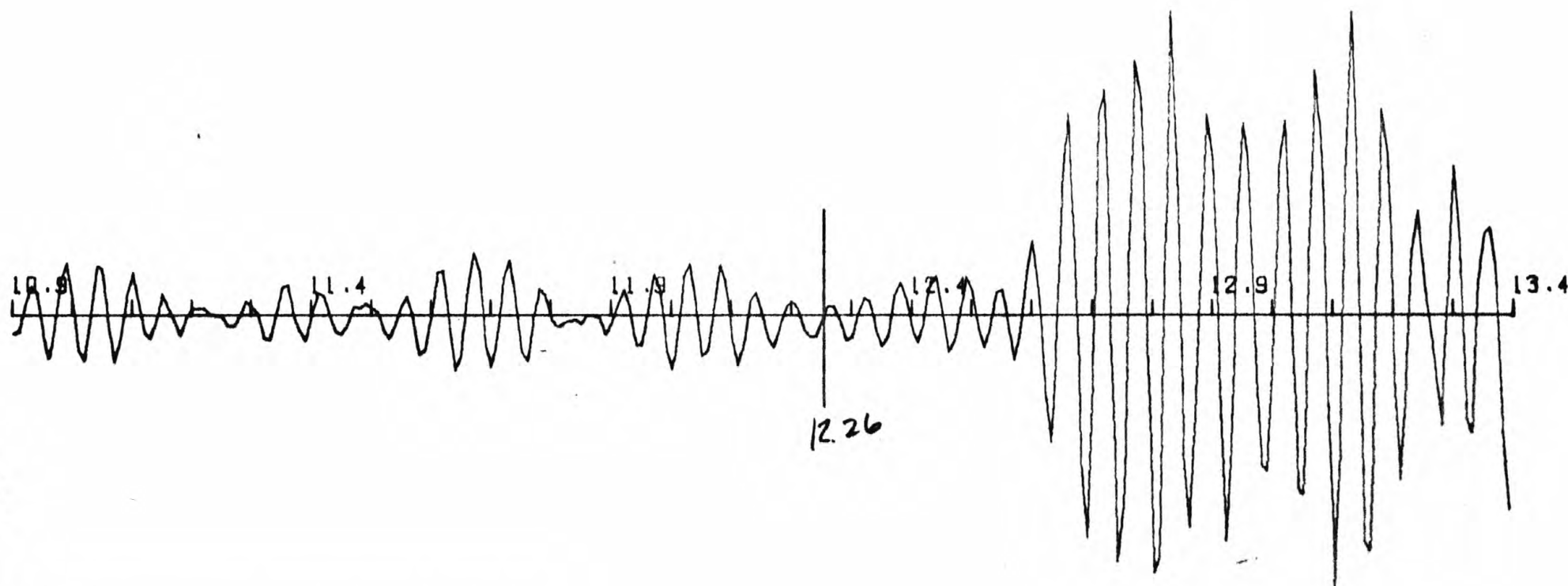
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 2

RECORDER LOCATION 258

DISTANCE FROM SHOT (KM) = 76.492

TSCALE (CM/SEC) = 10.0



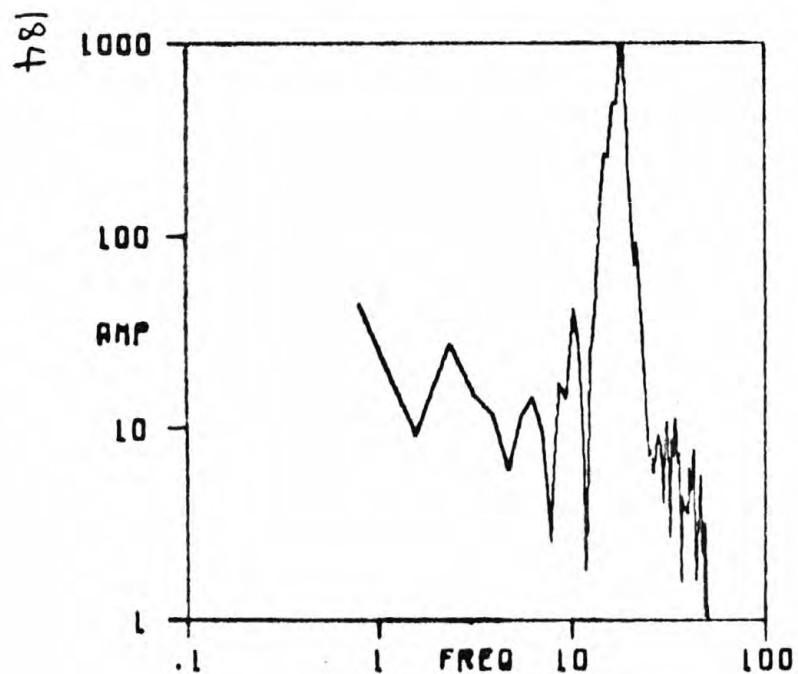
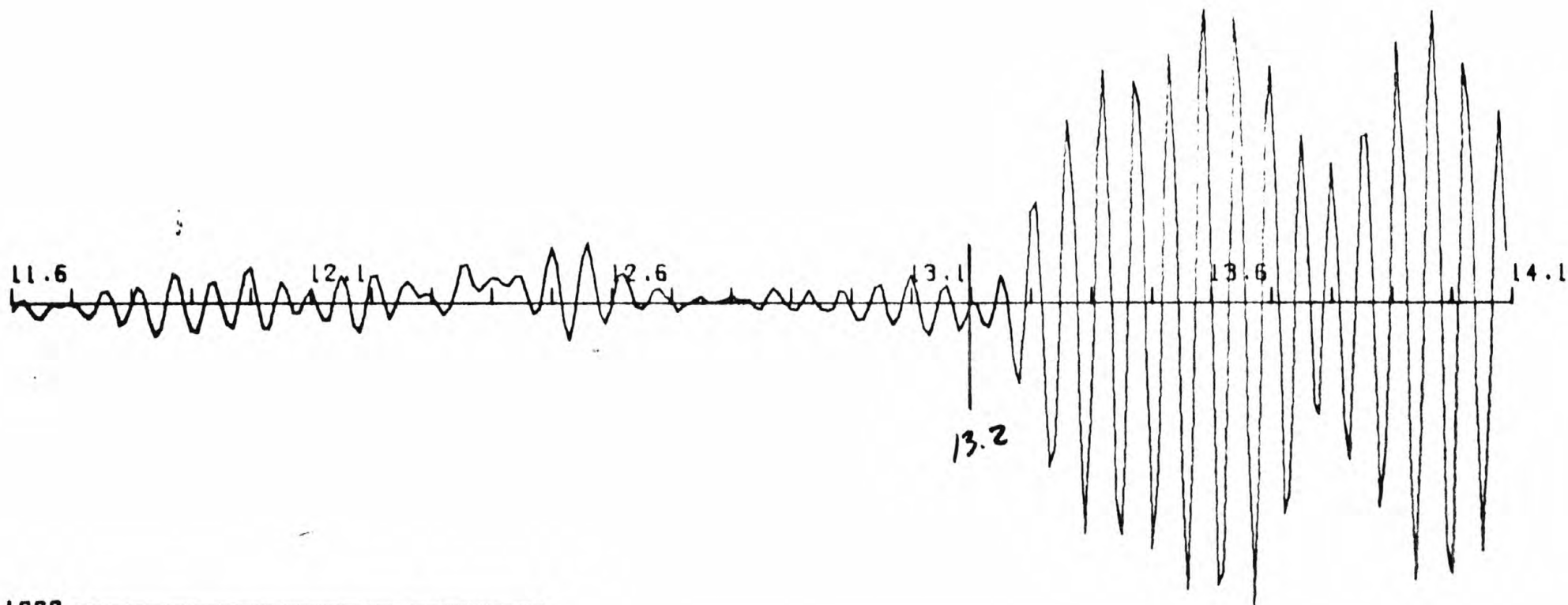
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 2

RECORDER LOCATION 257

DISTANCE FROM SHOT (KM) = 77.302

TSCALE (CM/SEC) = 10.0



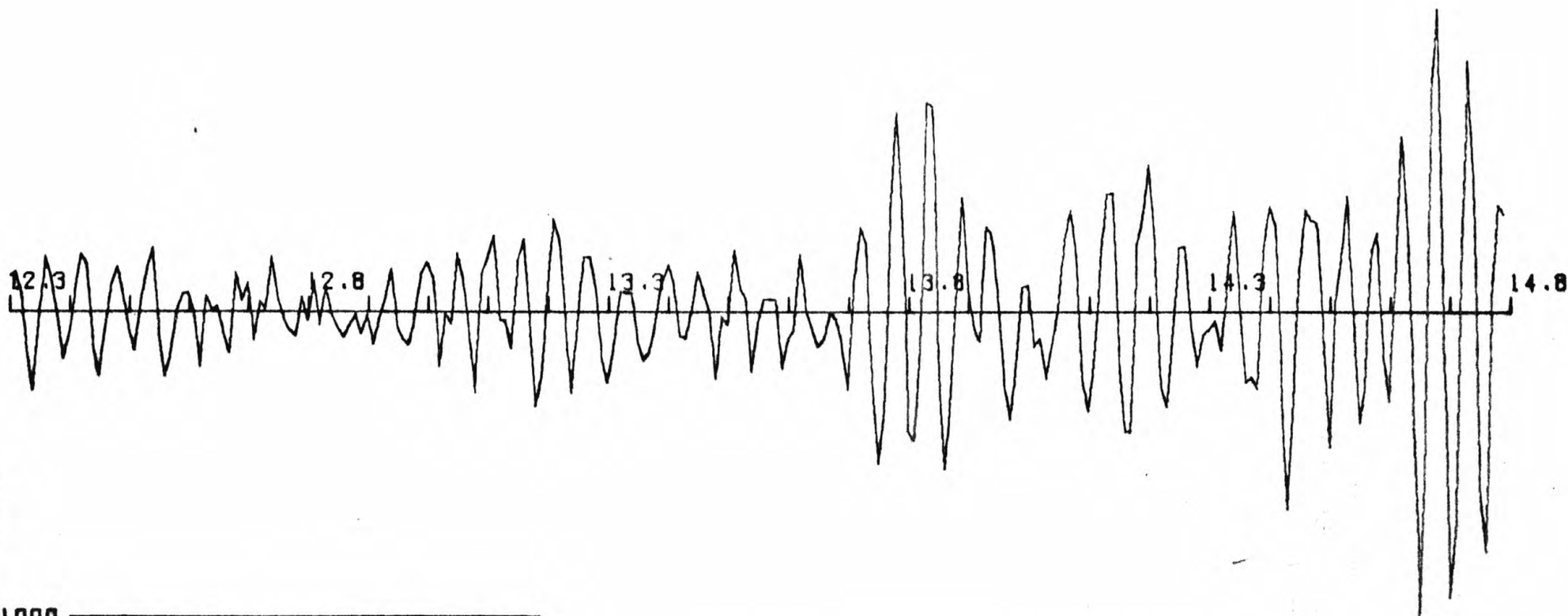
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 2

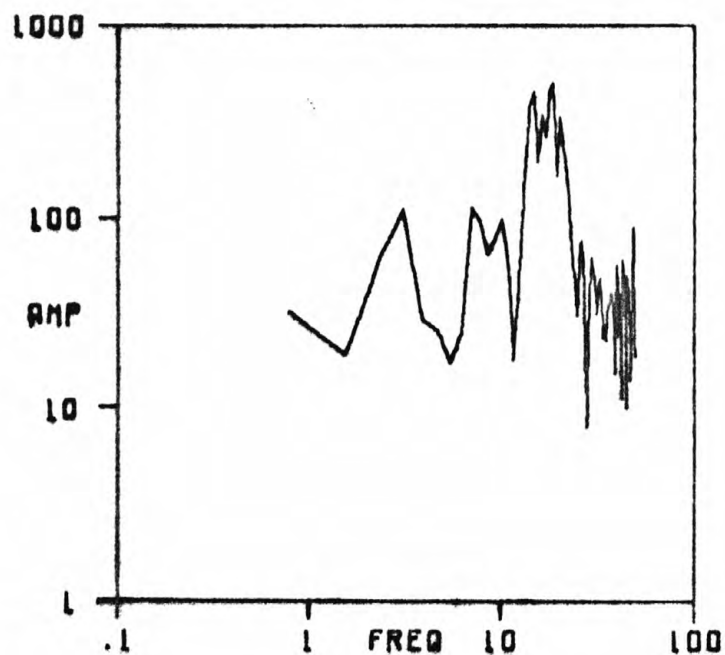
RECORDER LOCATION 255

DISTANCE FROM SHOT (KM) = 81.430

TSCALE (CM/SEC) = 10.0



185



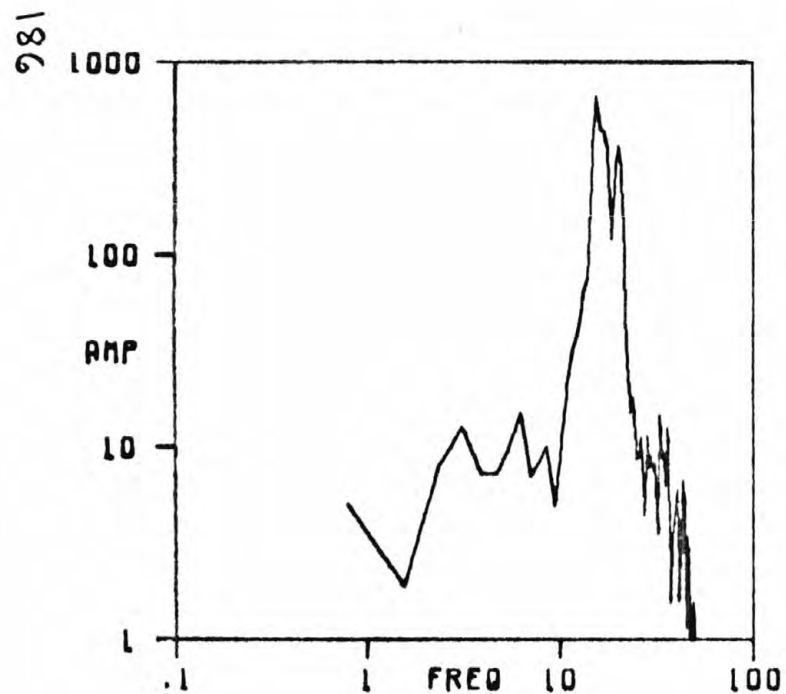
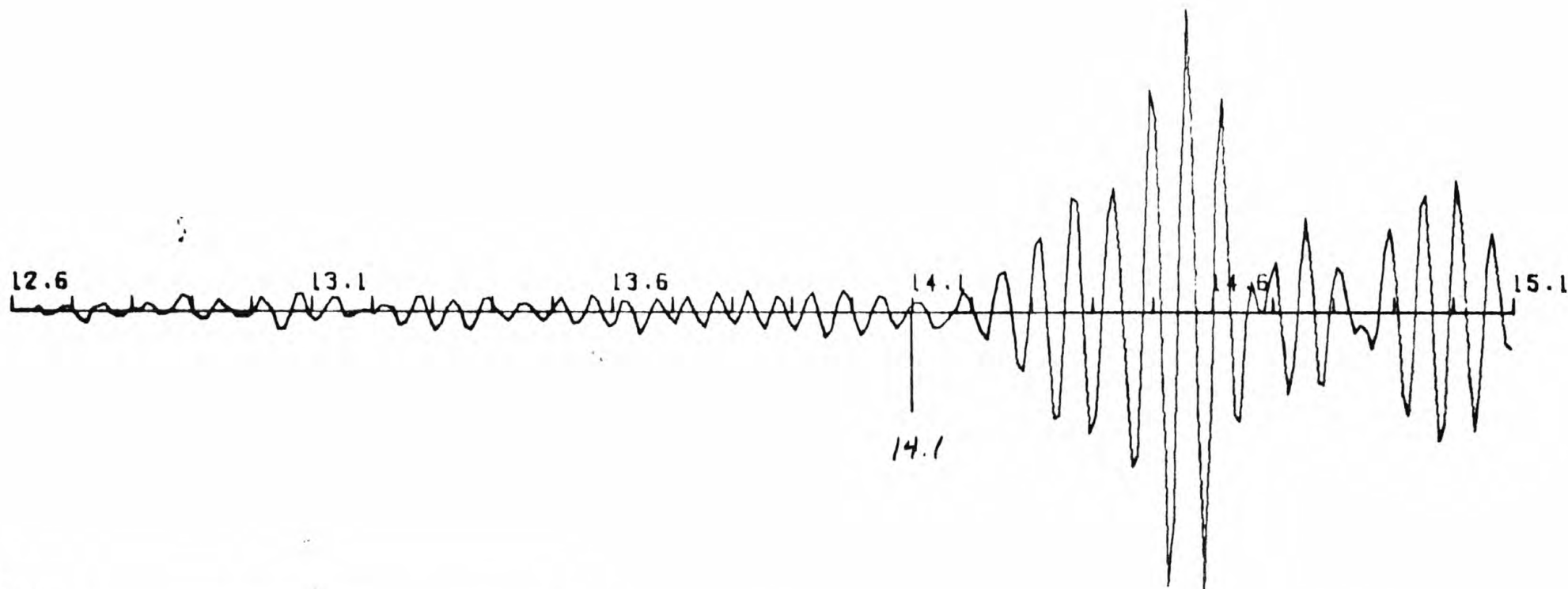
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 2

RECORDER LOCATION 253

DISTANCE FROM SHOT (KM) = 85.263

TSCALE (CM/SEC) = 10.0



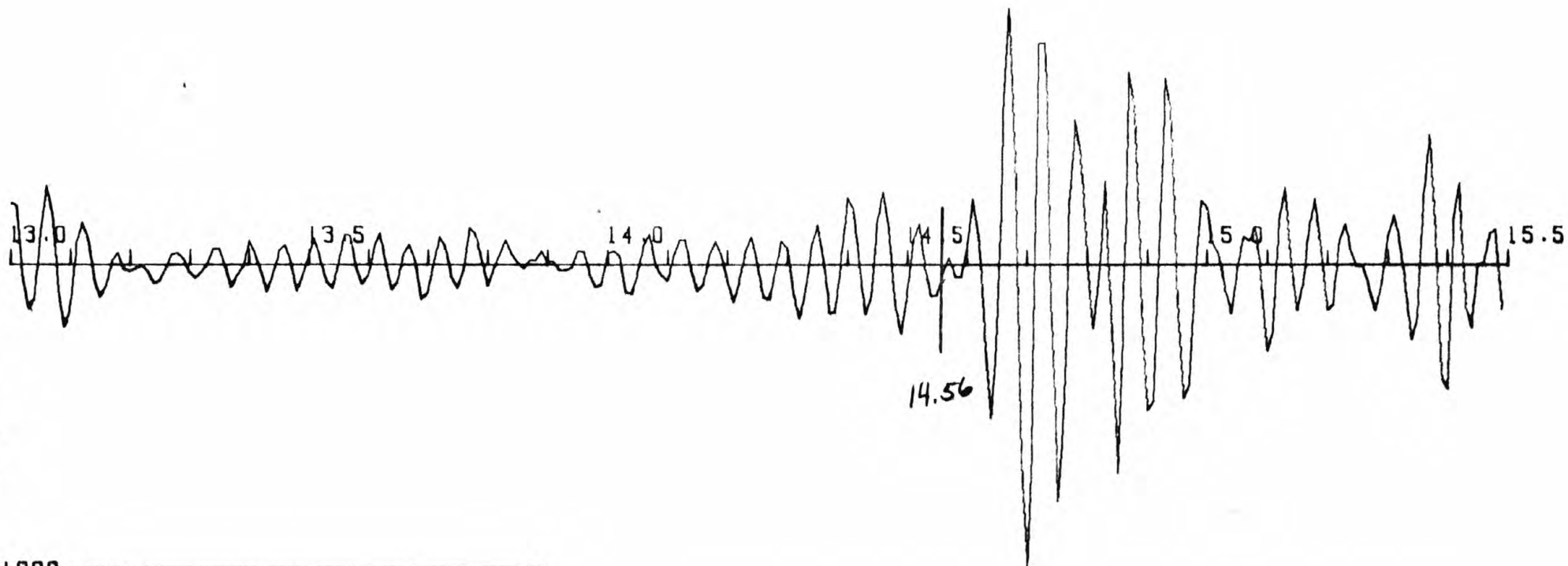
SAUDI REFRACTION PROFILE 15.20 BP .

SHOT POINT 2

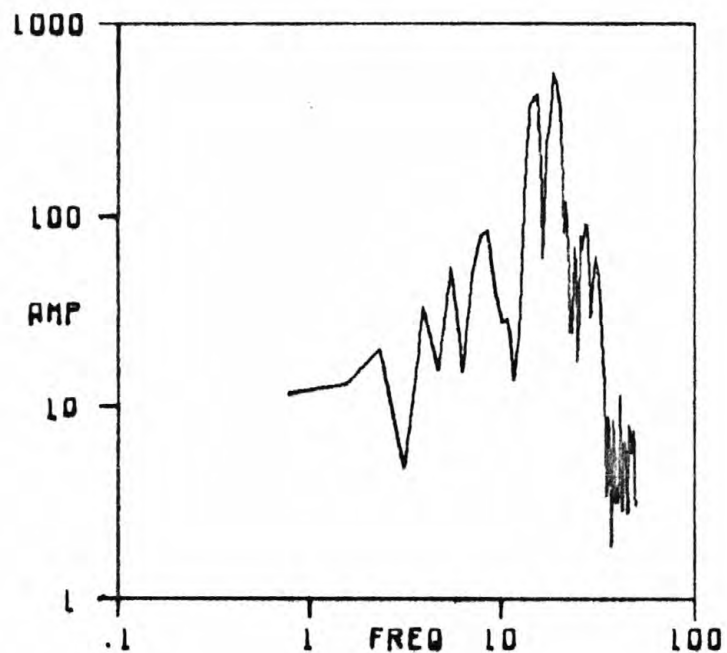
RECORDER LOCATION 252

DISTANCE FROM SHOT (KM) = 87.161

TSCALE (CM/SEC) = 10.0



187



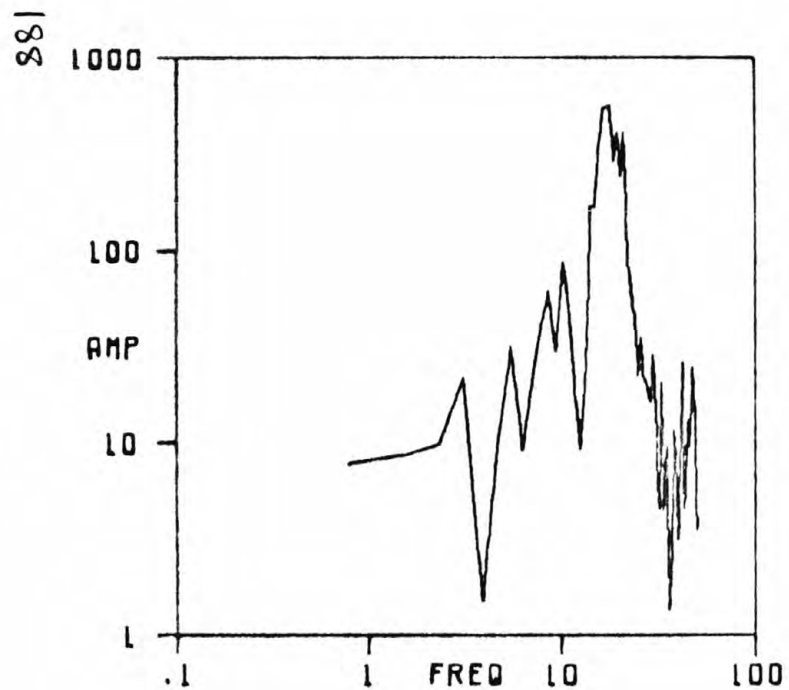
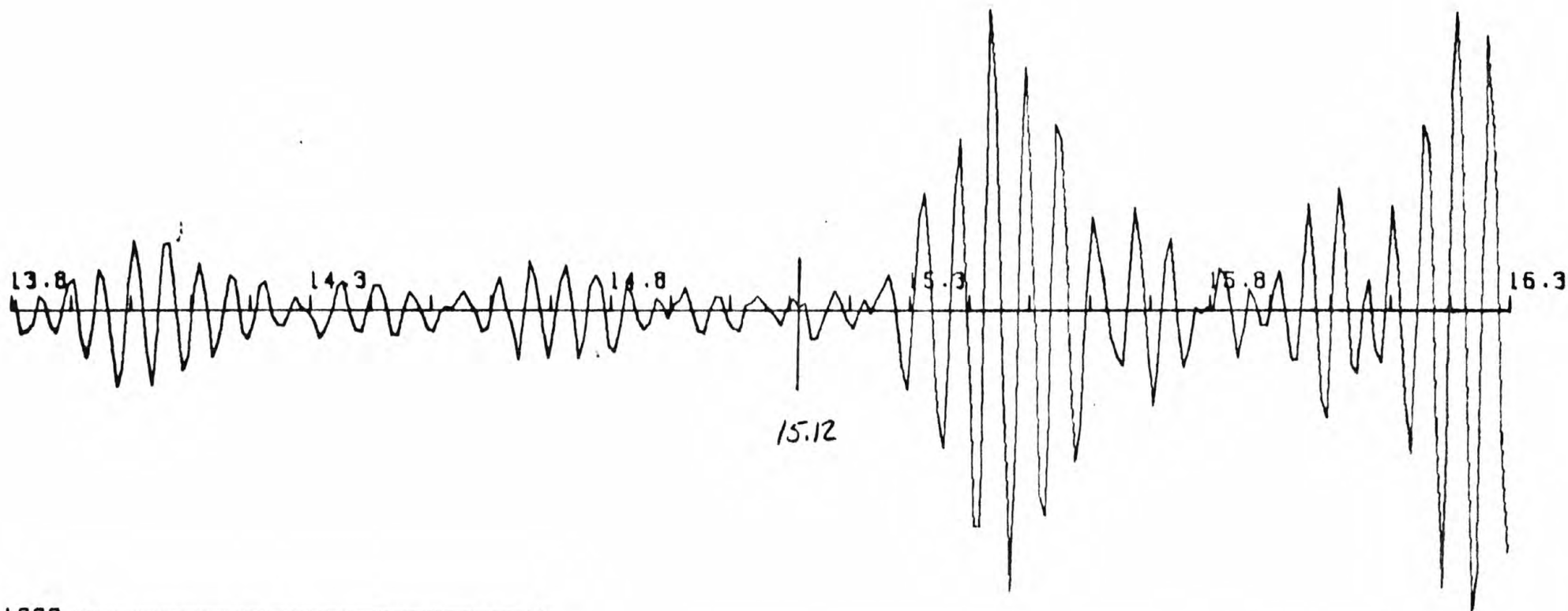
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 2

RECORDER LOCATION 251

DISTANCE FROM SHOT (KM) = 89.829

TSCALE (CM/SEC) = 10.0



SAUDI REFRACTION PROFILE 15.20 BP

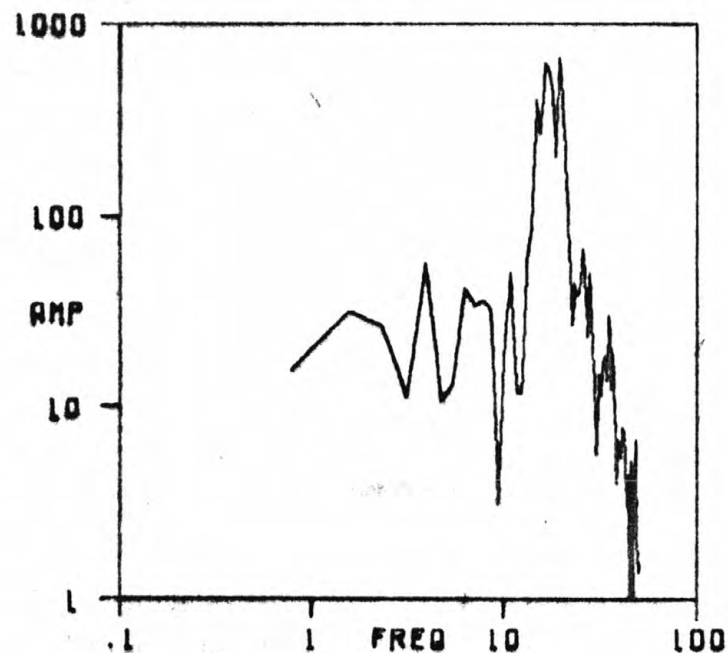
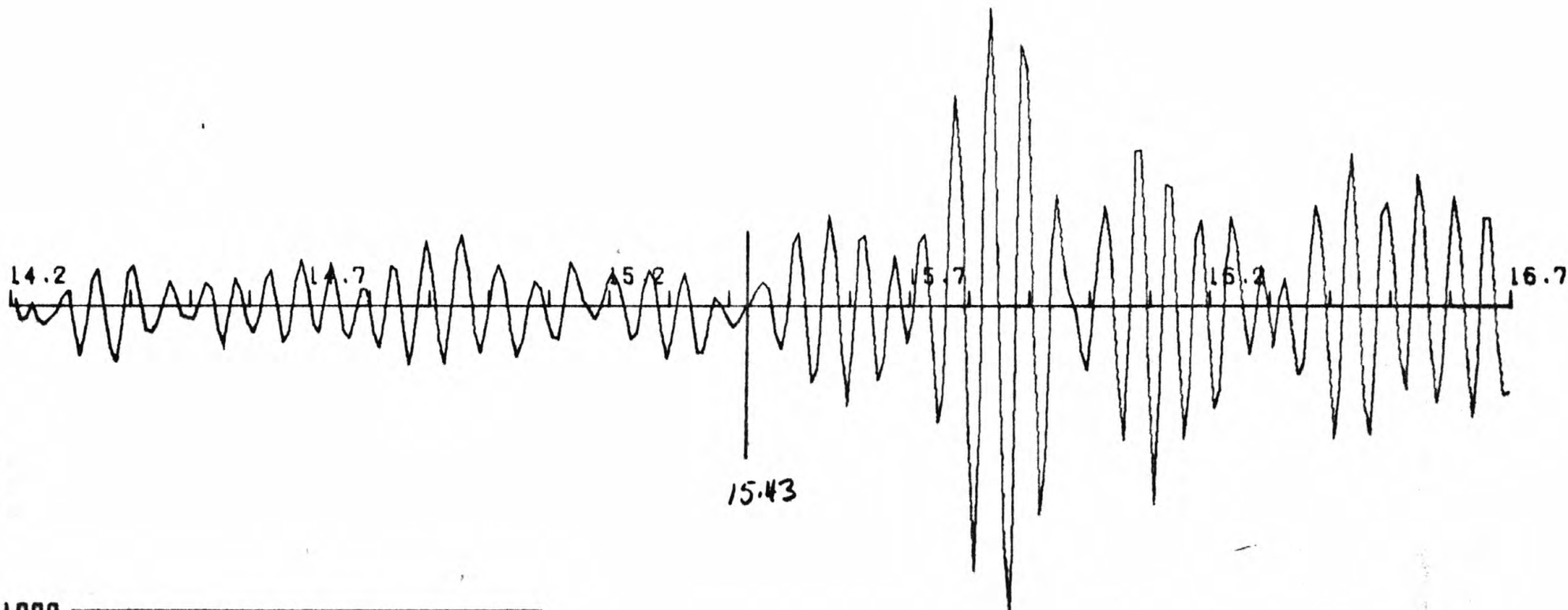
SHOT POINT 2

RECORDER LOCATION 248

DISTANCE FROM SHOT (KM) = 94.244

TSCALE (CM/SEC) = 10.0

181



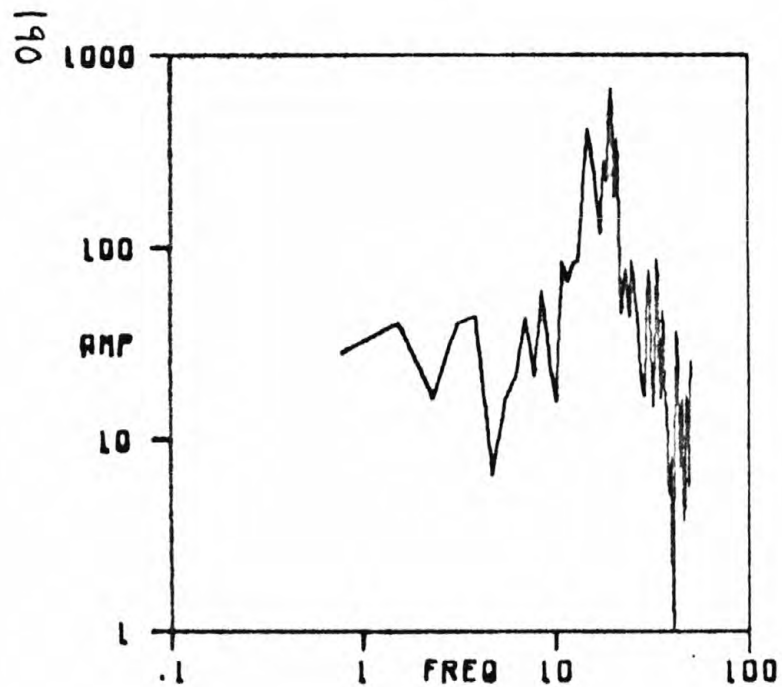
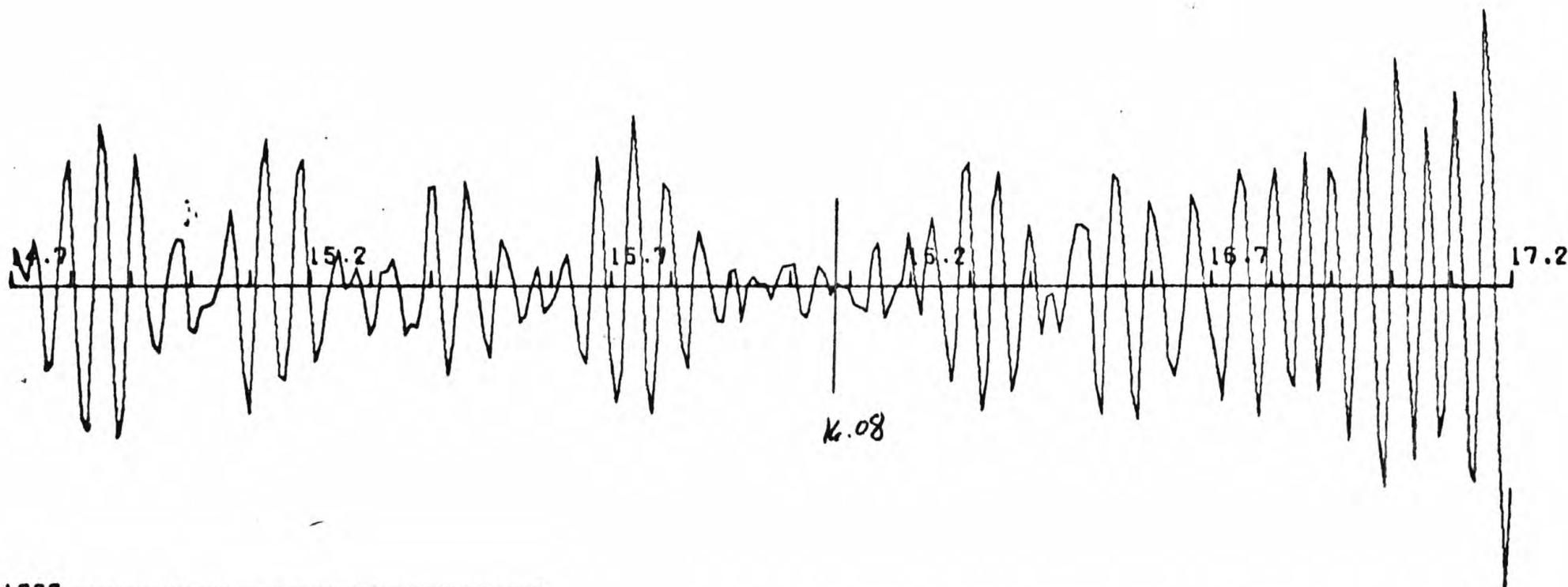
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 2

RECORDER LOCATION 247

DISTANCE FROM SHOT (KM) = 96.948

TSCALE (CM/SEC) = 10.0



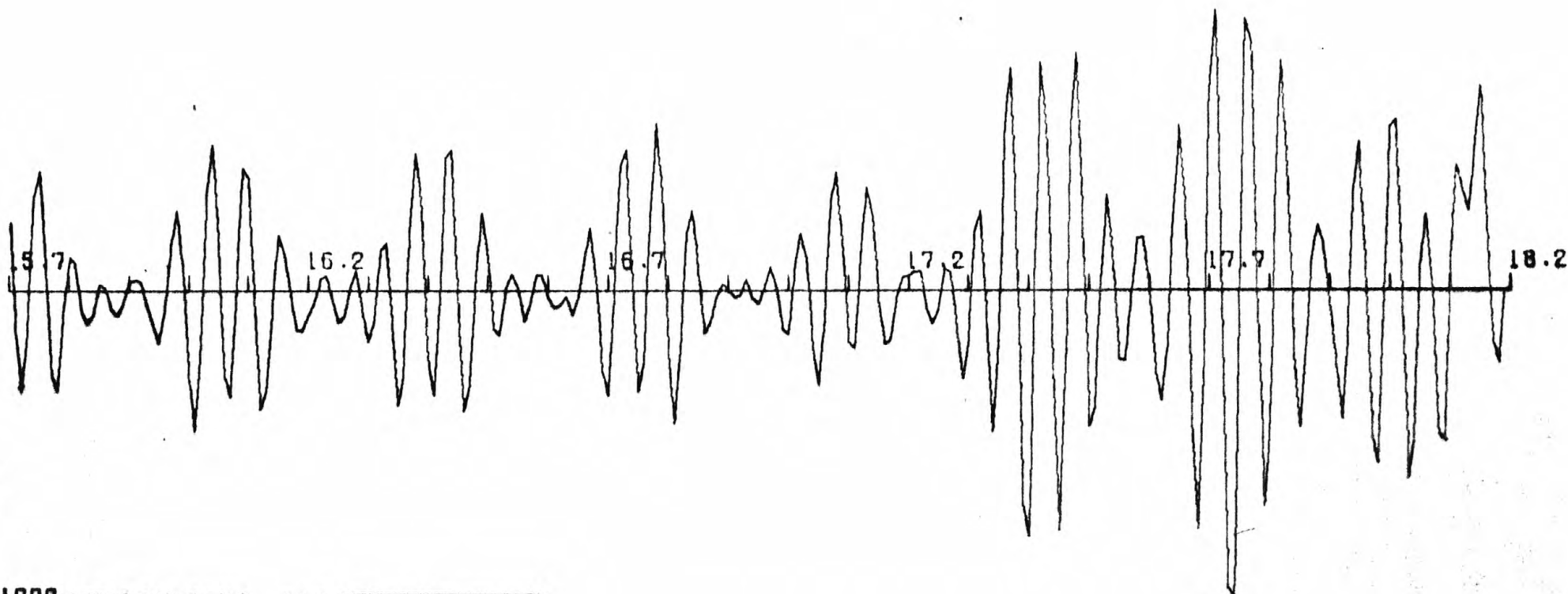
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 2

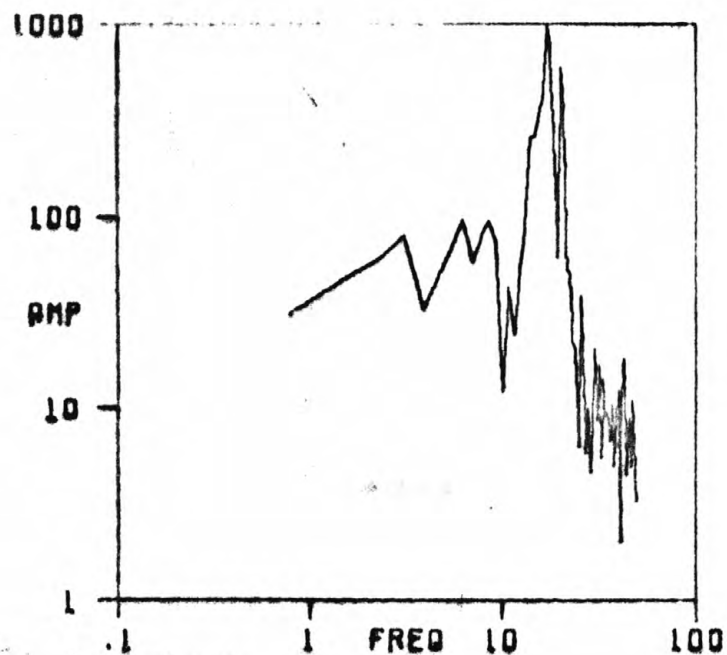
RECORDER LOCATION 246

DISTANCE FROM SHOT (KM) = 100.134

TSCALE (CM/SEC) = 10.0



191



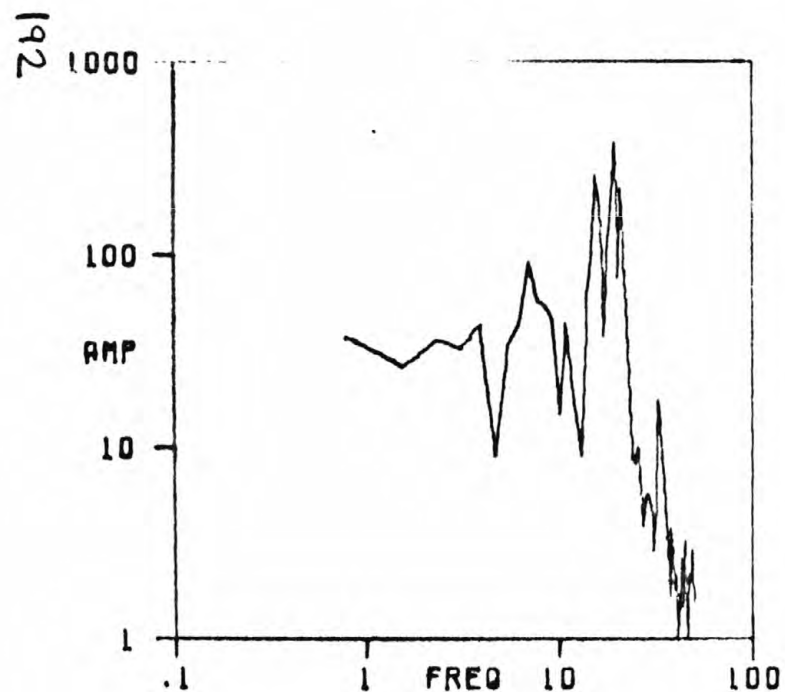
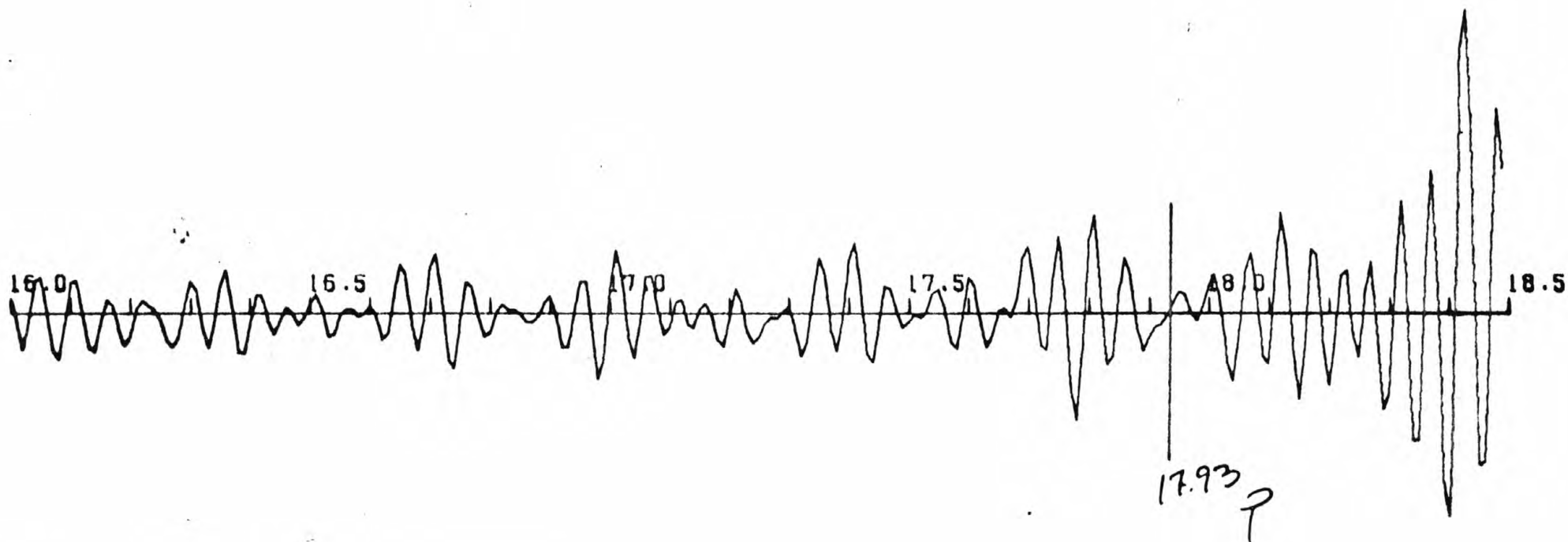
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 2

RECORDER LOCATION 245

DISTANCE FROM SHOT (KM) = 105.676

TS SCALE (CM/SEC) = 10.0



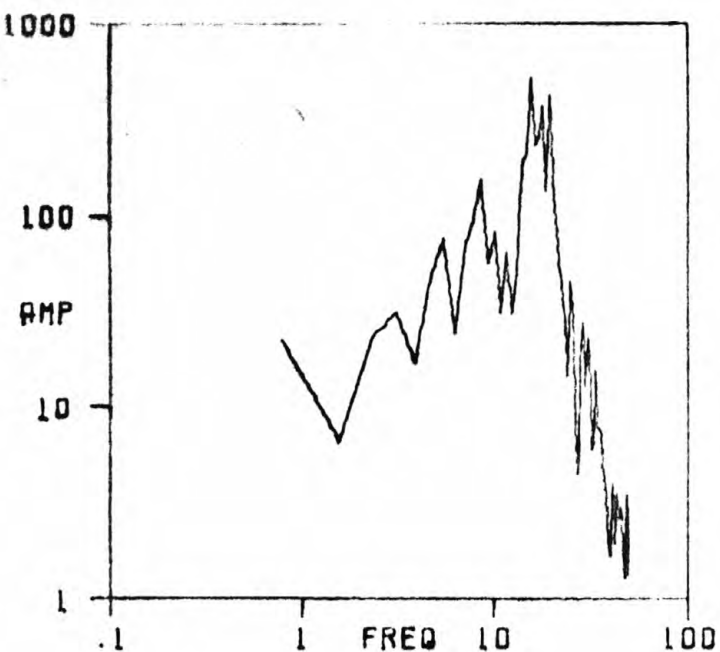
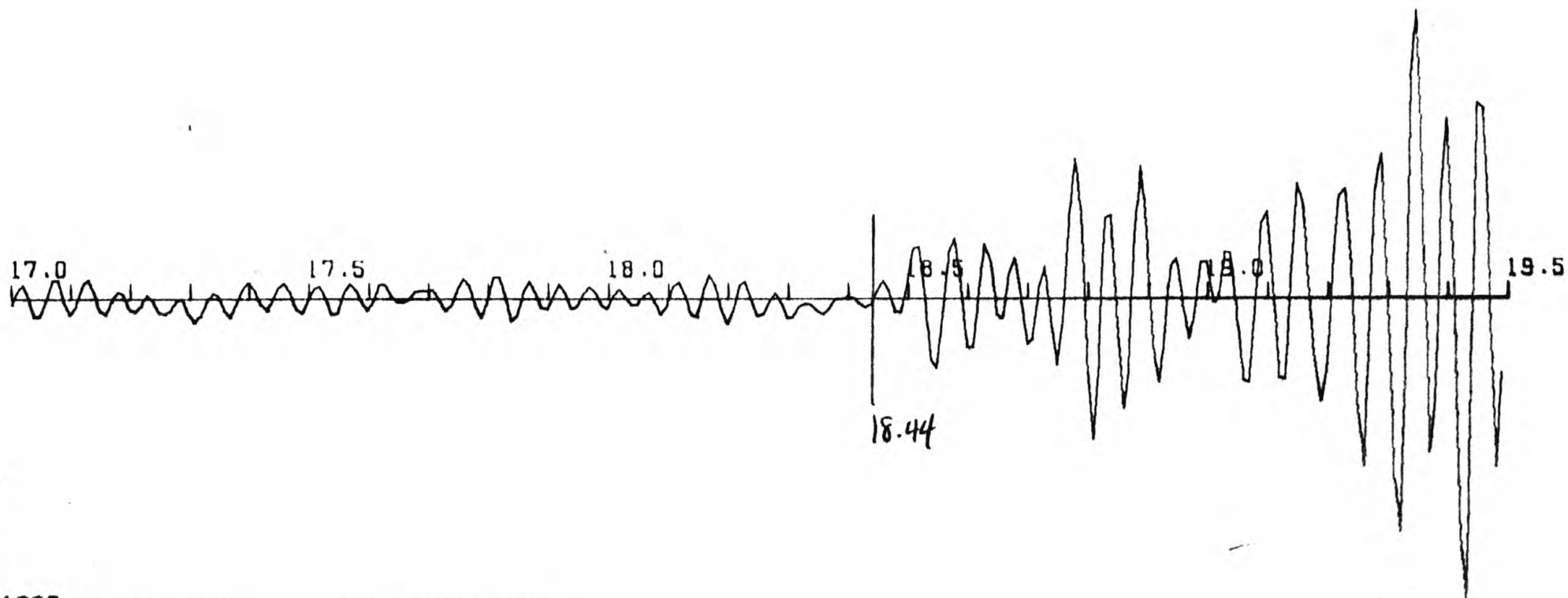
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 2

RECORDER LOCATION 244

DISTANCE FROM SHOT (KM) = 107.709

TSCALE (CM/SEC) = 10.0



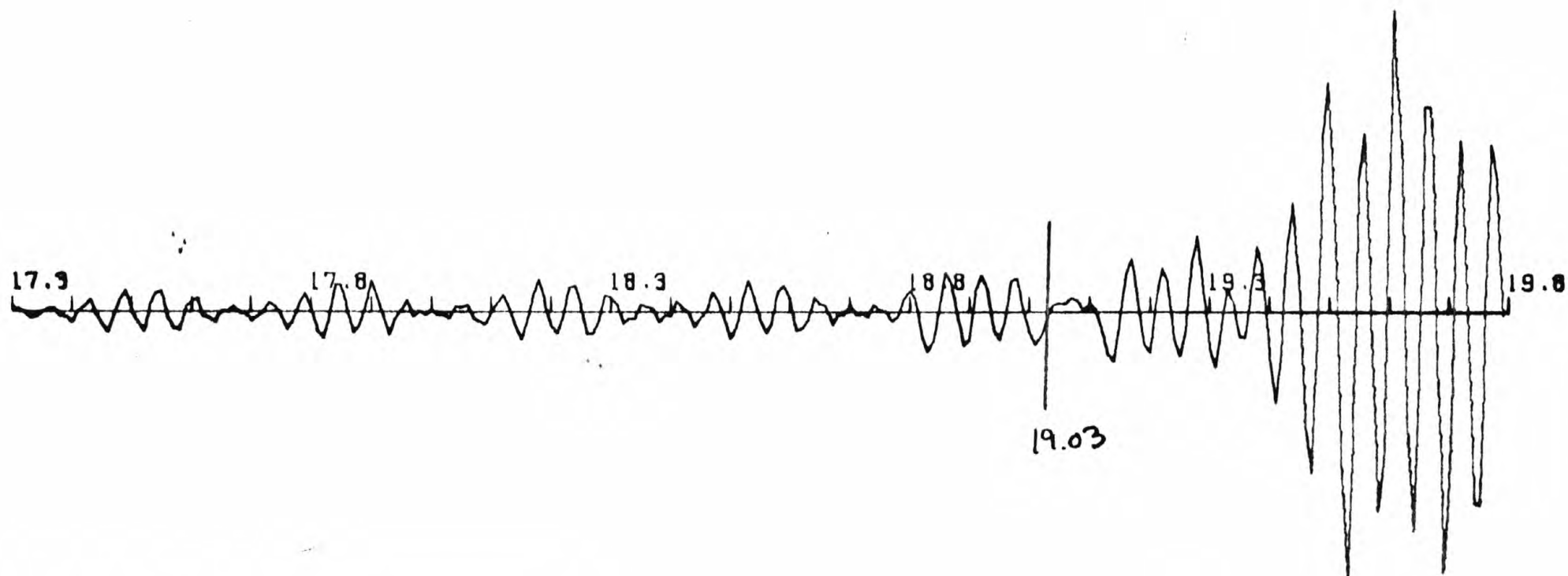
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 2

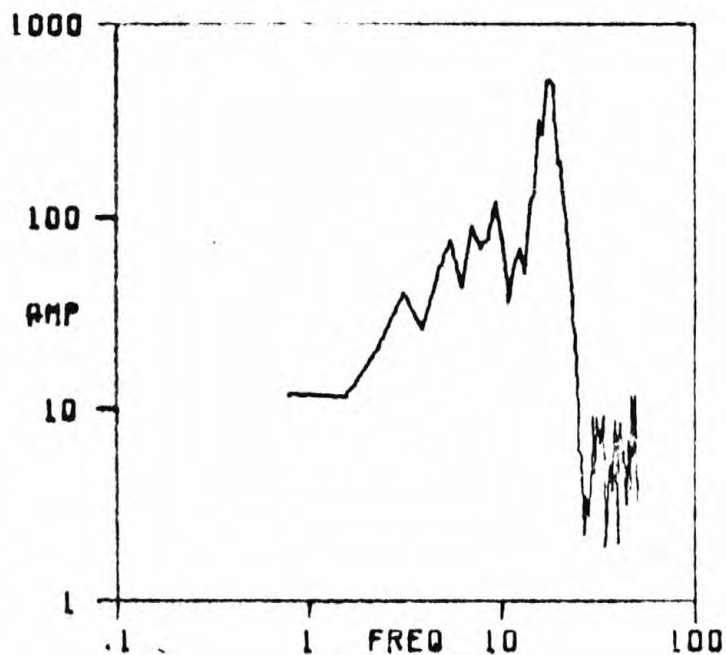
RECORDER LOCATION 241

DISTANCE FROM SHOT (KM) = 113.463

TSCALE (CM/SEC) = 10.0



194



SAUDI REFRACTION PROFILE 15.20 BP

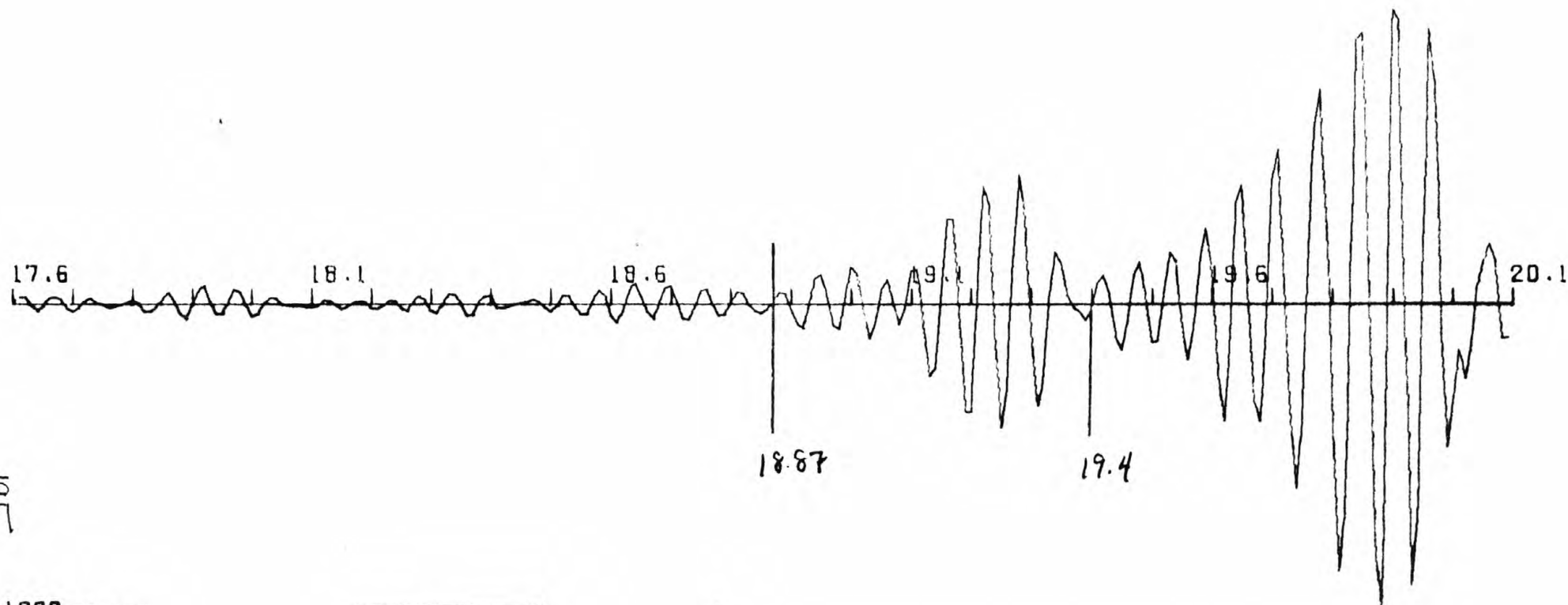
SHOT POINT 2

RECORDER LOCATION 240

DISTANCE FROM SHOT (KM) = 115.394

TSCALE (CM/SEC) = 10.0

195



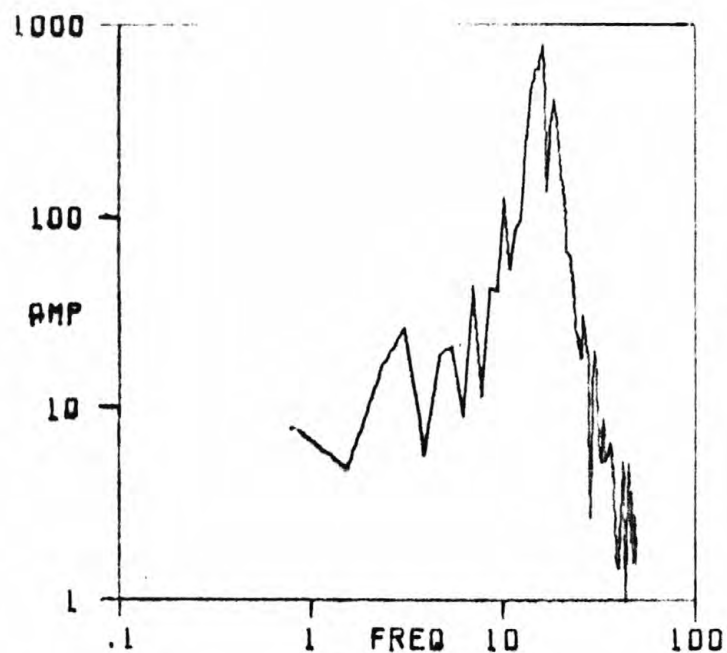
SAUDI REFRACTION PROFILE 15.20 BP

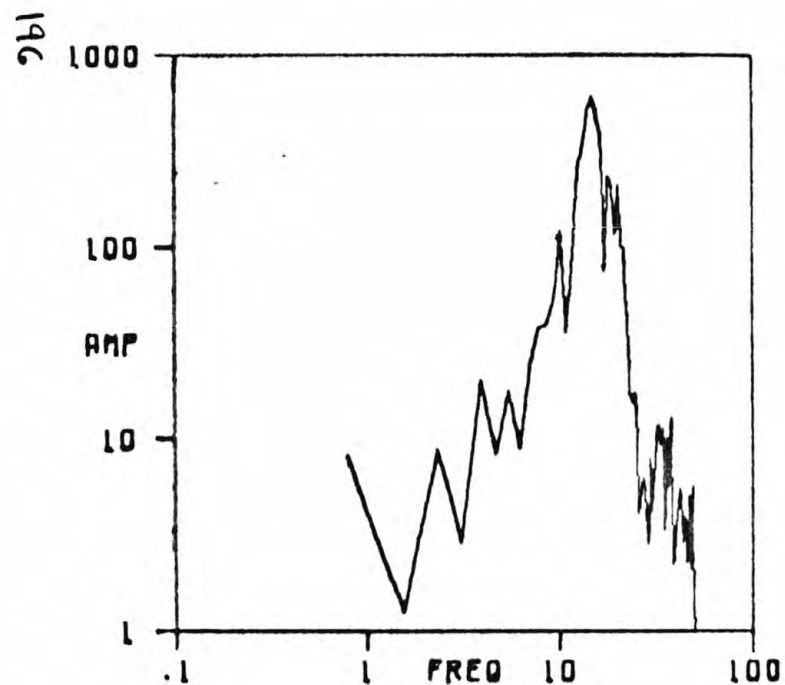
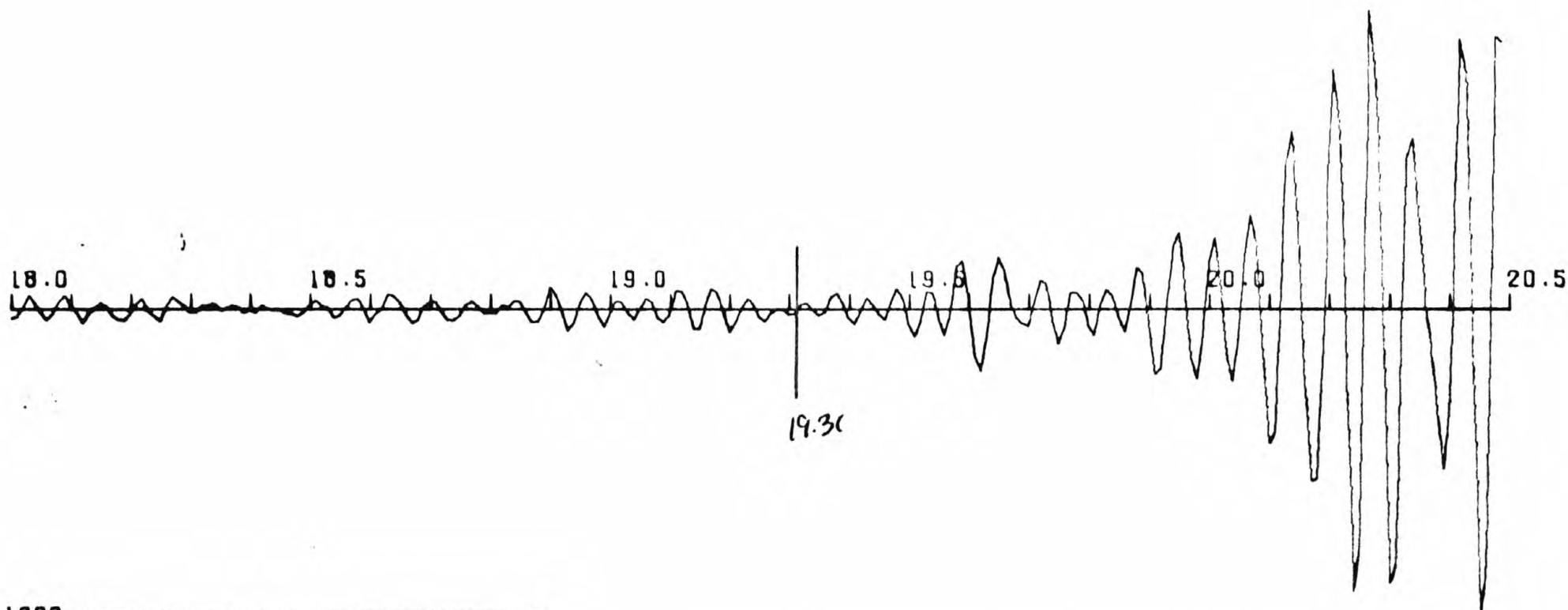
SHOT POINT 2

RECORDER LOCATION 239

DISTANCE FROM SHOT (KM) = 117.432

TSCALE (CM/SEC) = 10.0





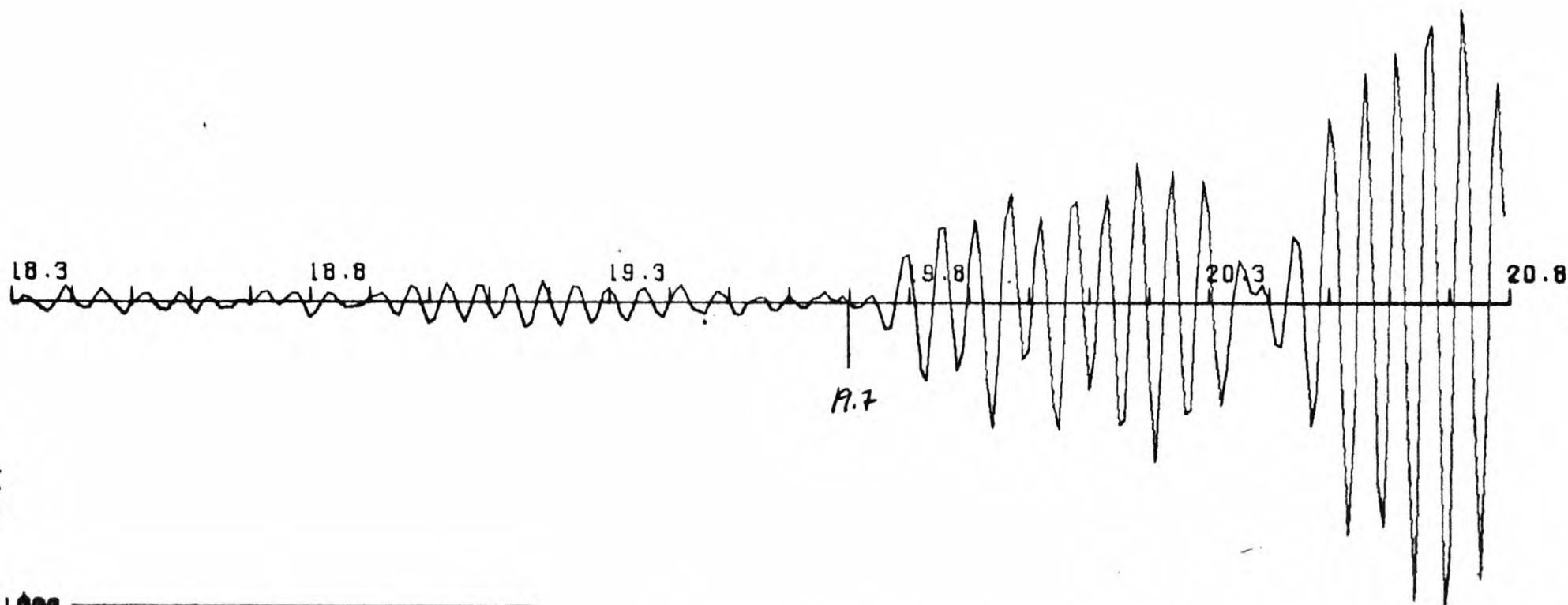
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 2

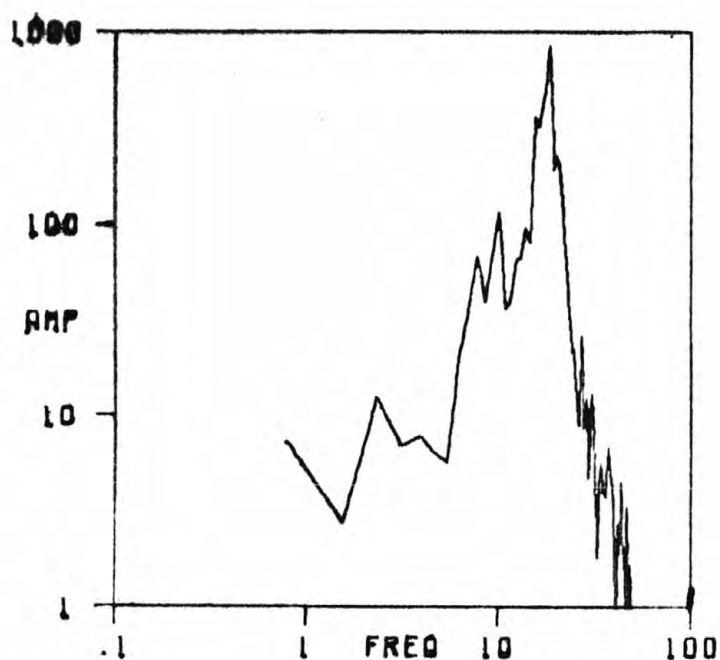
RECORDER LOCATION 238

DISTANCE FROM SHOT (KM) = 119.464

TS SCALE (CM/SEC) = 10.0



197



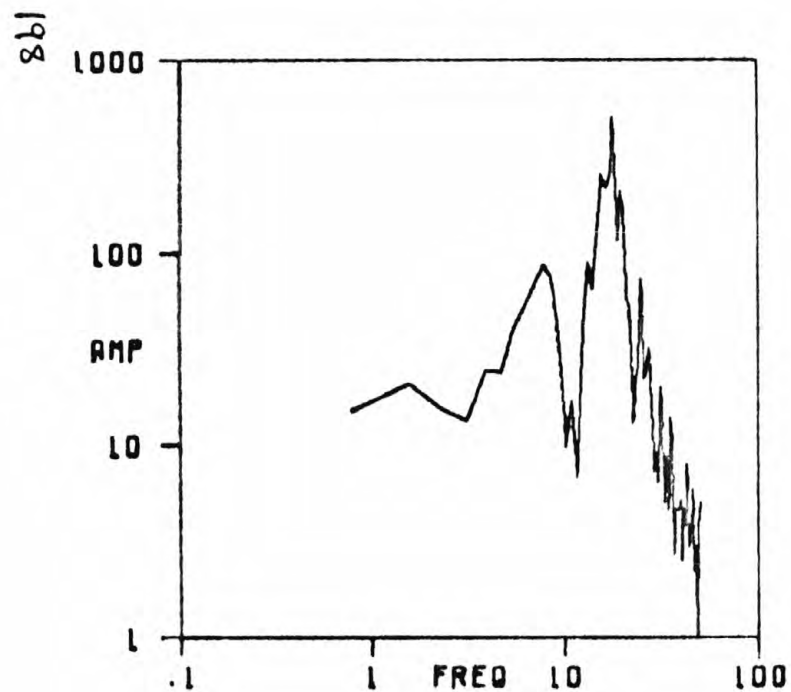
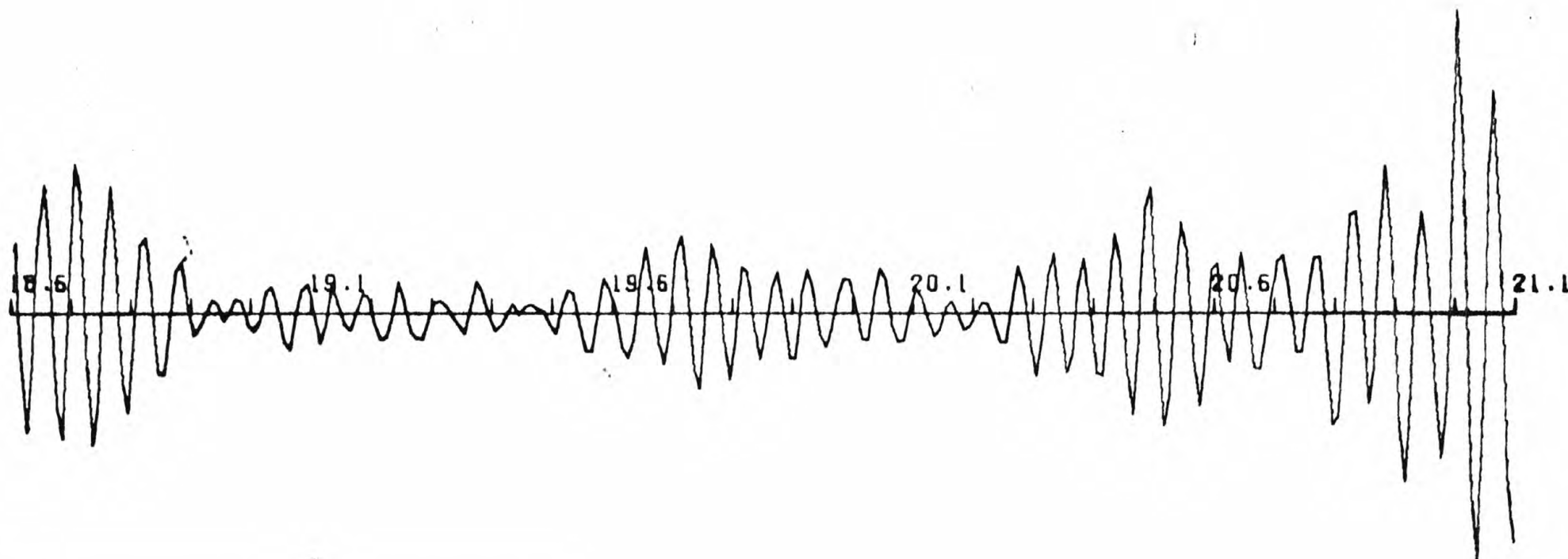
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 2

RECORDER LOCATION 237

DISTANCE FROM SHOT (KM) = 121.328

TSCALE (CM/SEC) = 10.0



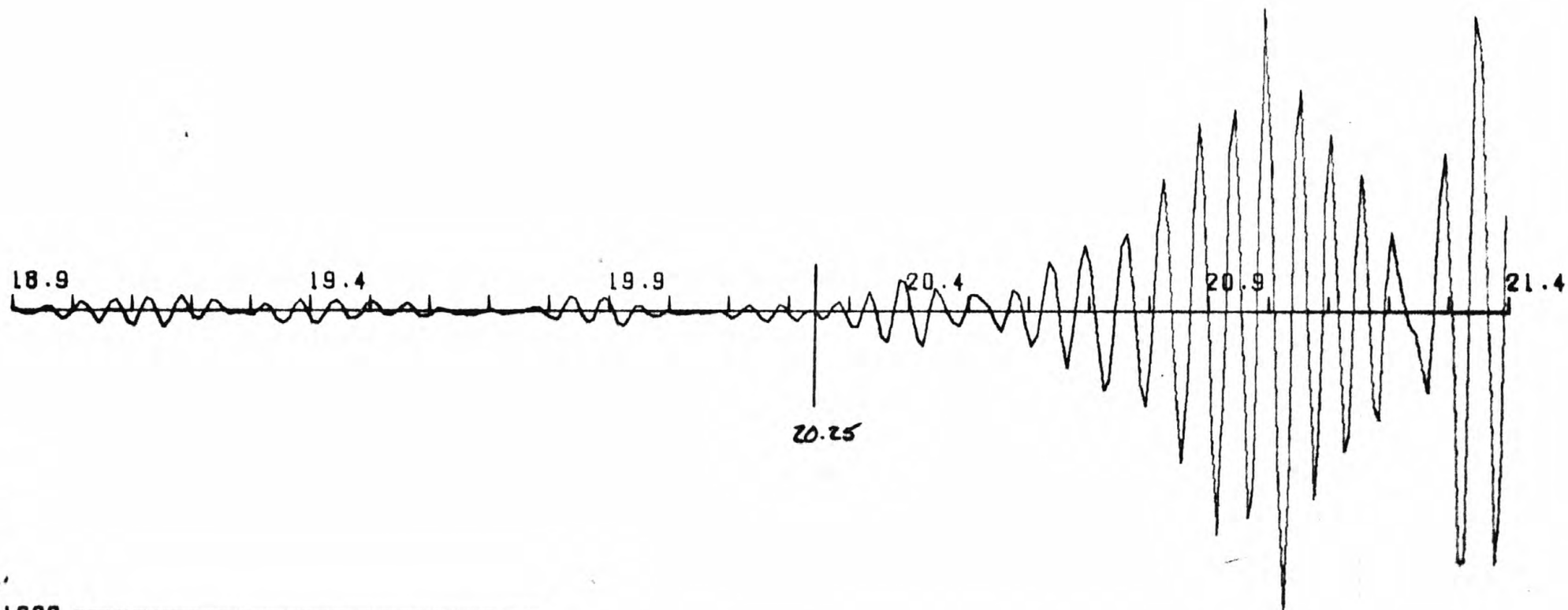
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 2

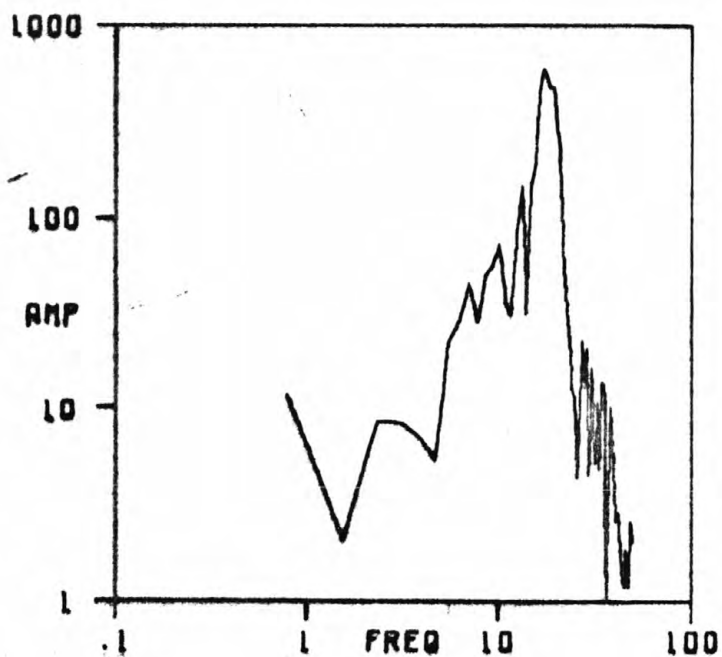
RECORDER LOCATION 236

DISTANCE FROM SHOT (KM) = 123.221

TSCALE (CM/SEC) = 10.0



bb1



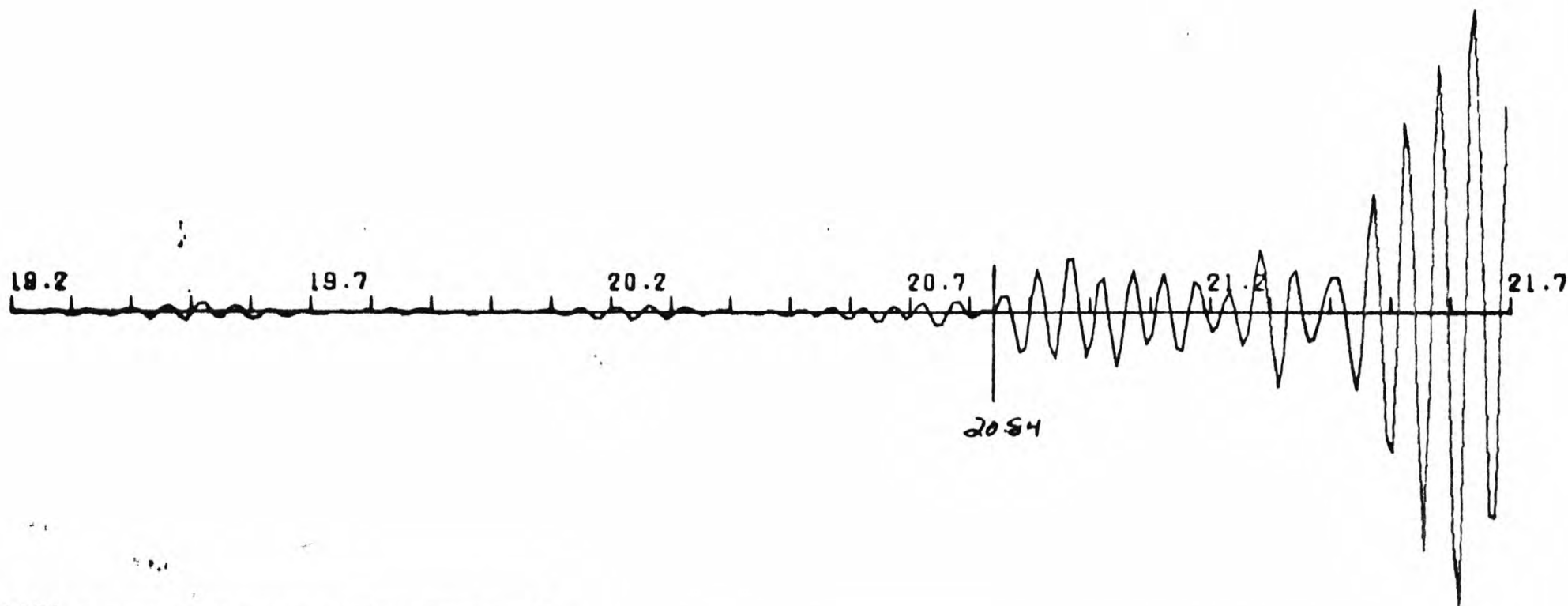
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 2

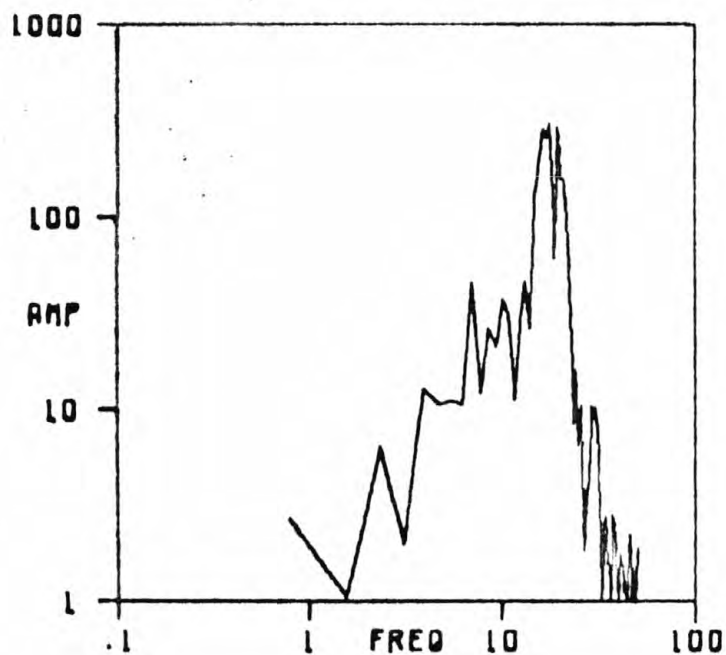
RECORDER LOCATION 235

DISTANCE FROM SHOT (KM) = 125.078

TS SCALE (CM/SEC) = 10.0



200



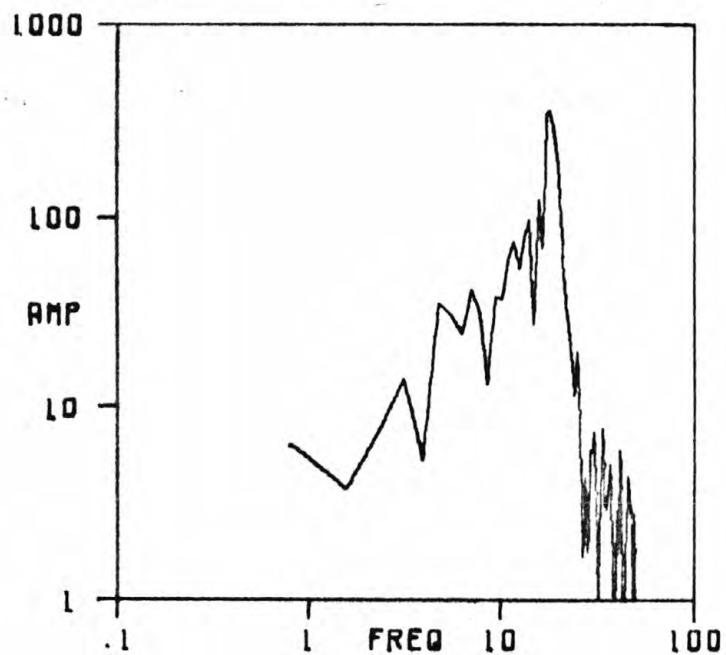
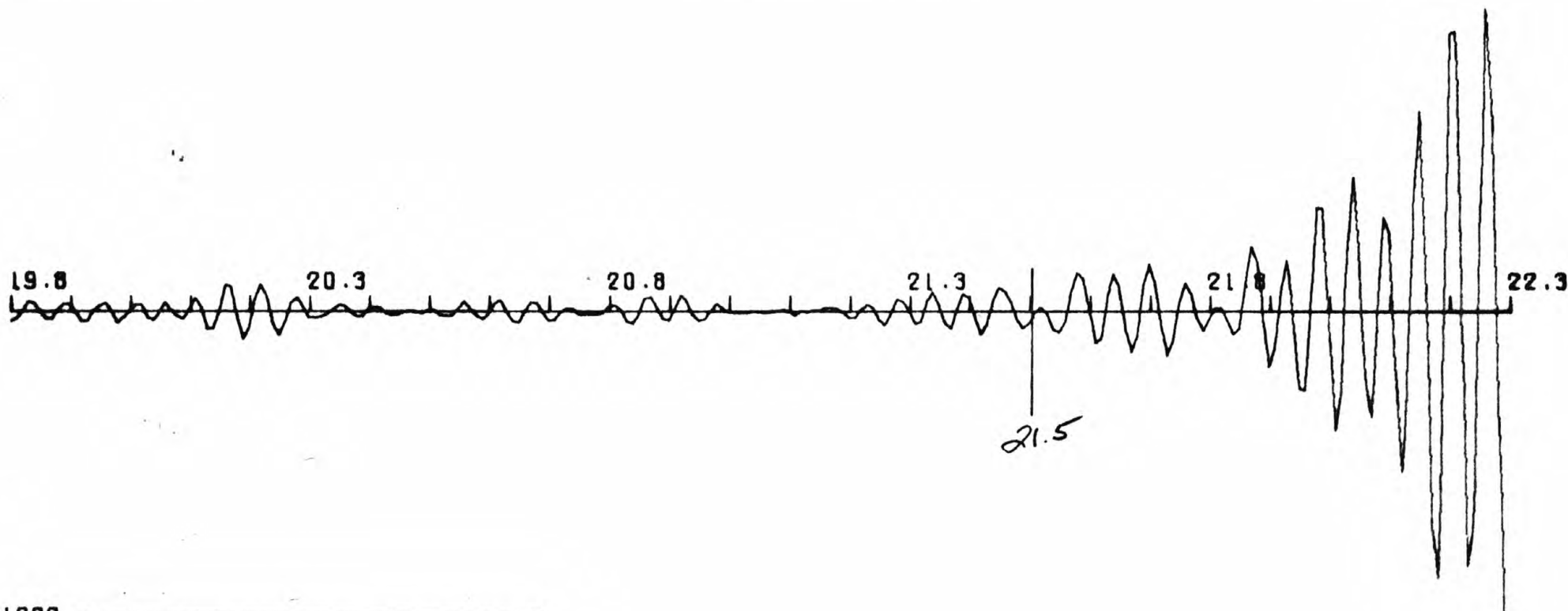
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 2

RECORDER LOCATION 234

DISTANCE FROM SHOT (KM) = 126.812

TSCALE (CM/SEC) = 10.0



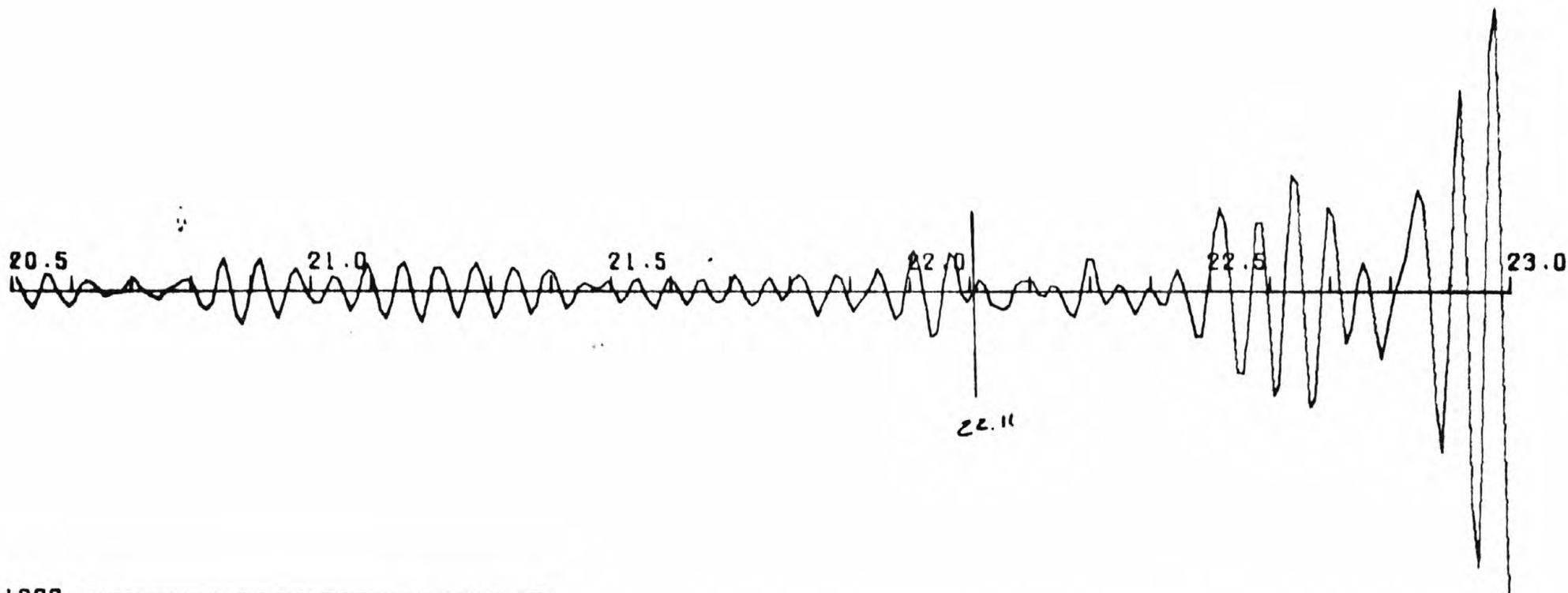
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 2

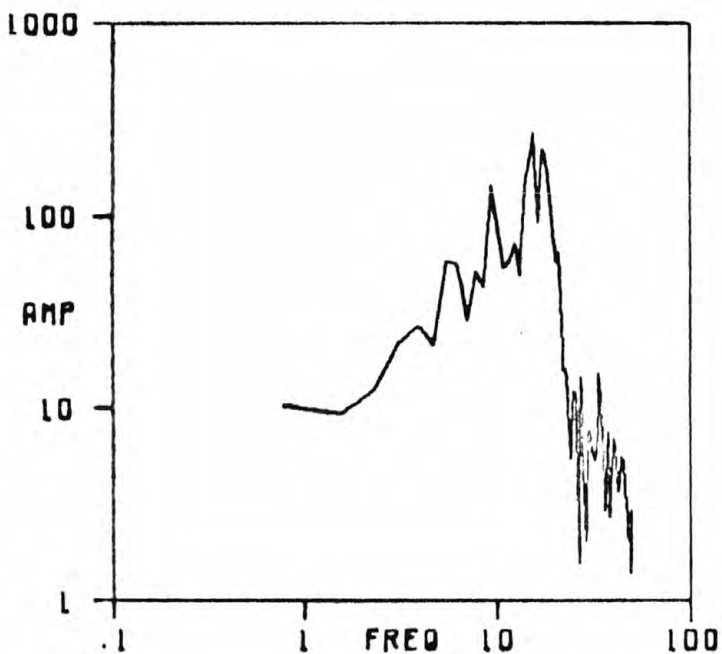
RECORDER LOCATION 232

DISTANCE FROM SHOT (KM) = 130.621

TSCALE (CM/SEC) = 10.0



202



SAUDI REFRACTION PROFILE 15.20 BP

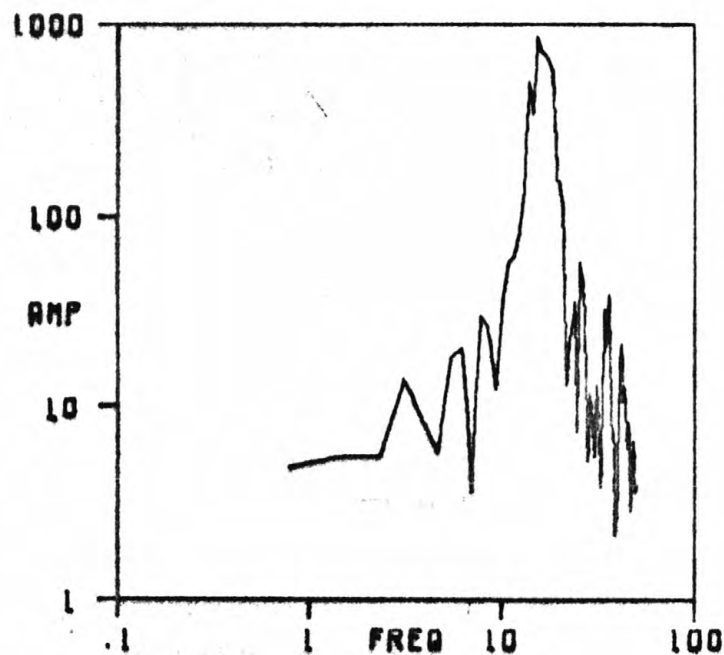
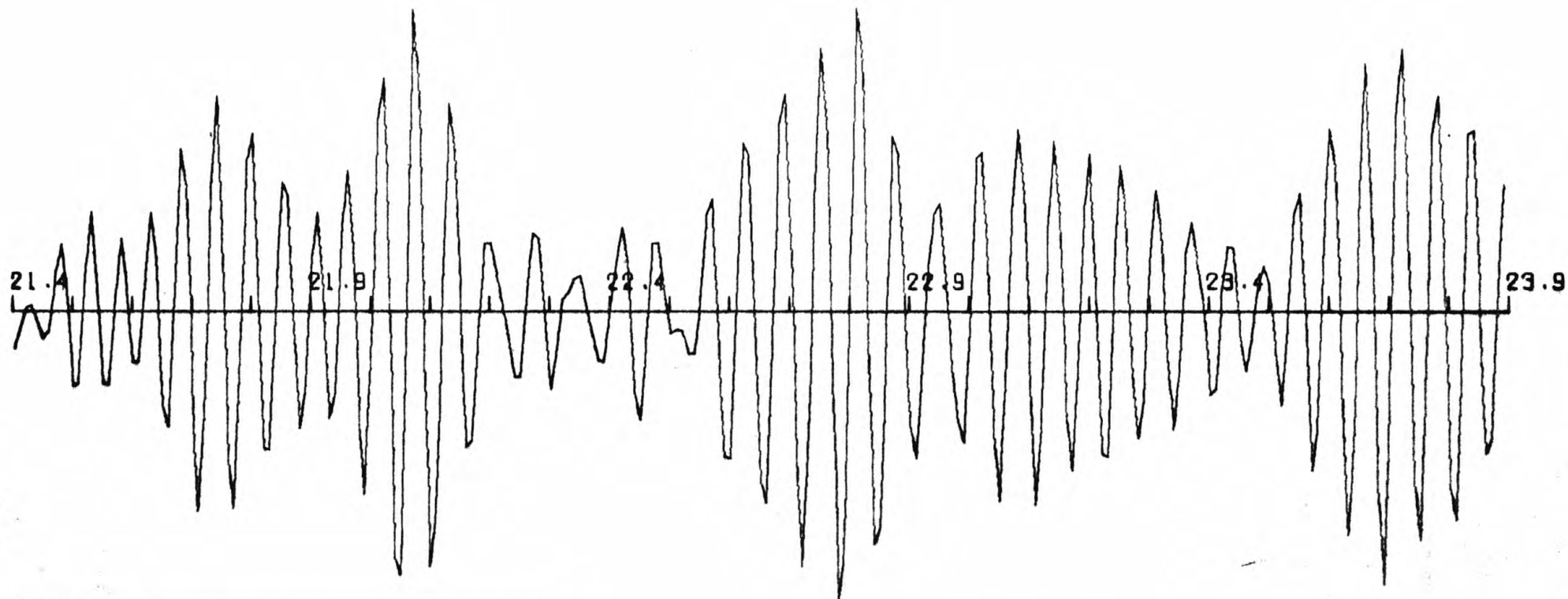
SHOT POINT 2

RECORDER LOCATION 230

DISTANCE FROM SHOT (KM) = 134.627

TSCALE (CM/SEC) = 10.0

203



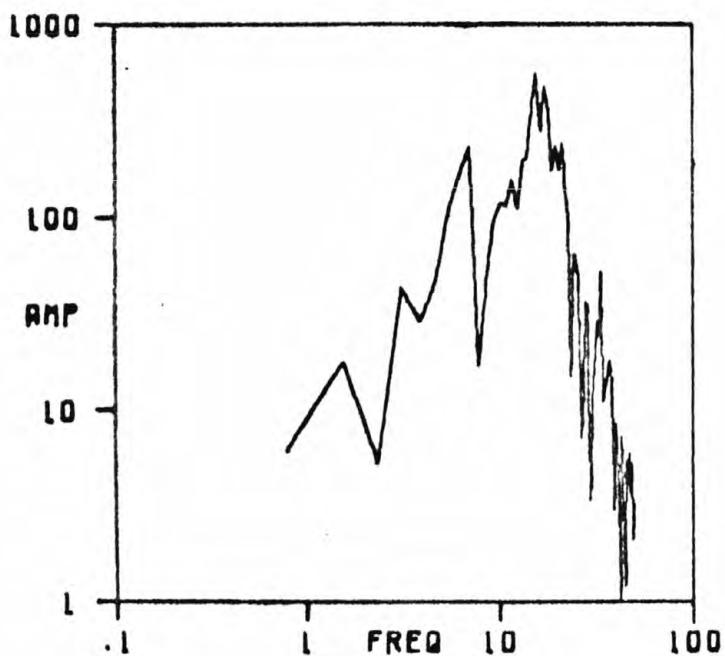
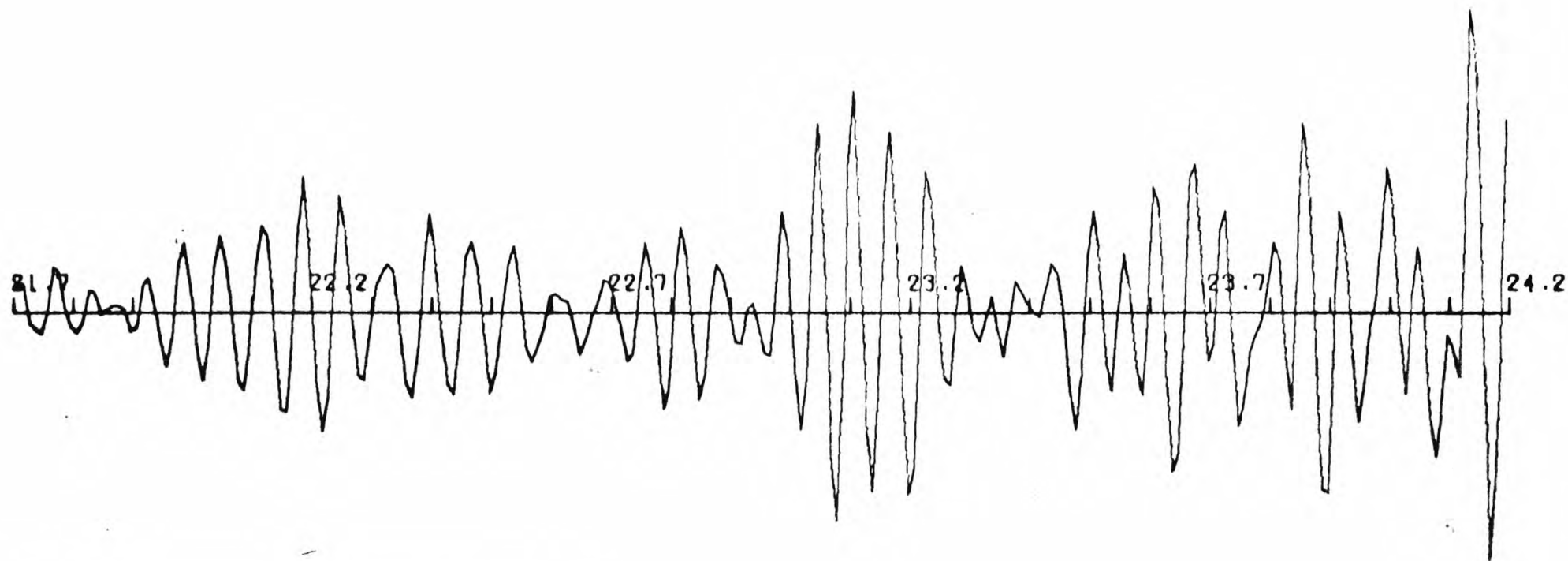
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 2

RECORDER LOCATION 220

DISTANCE FROM SHOT (KM) = 140.365

TS SCALE (CM/SEC) = 10.0



SAUDI REFRACTION PROFILE 15.20 BP

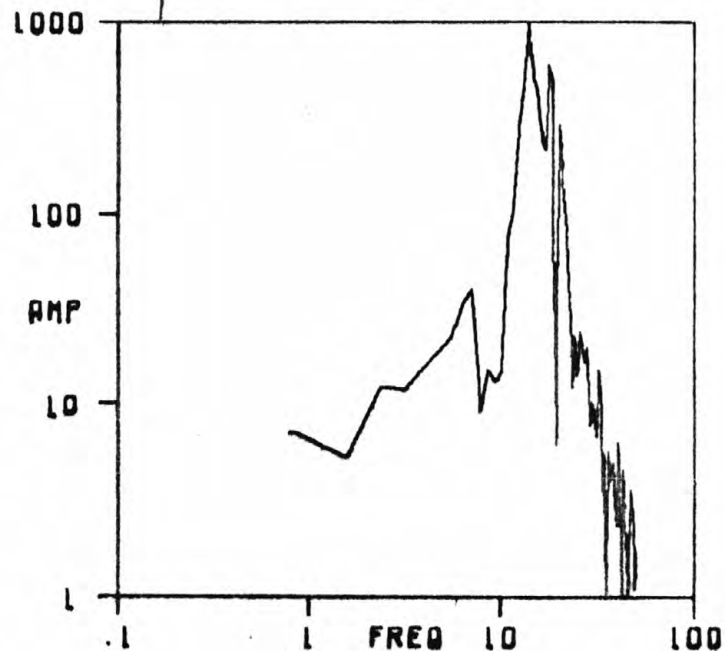
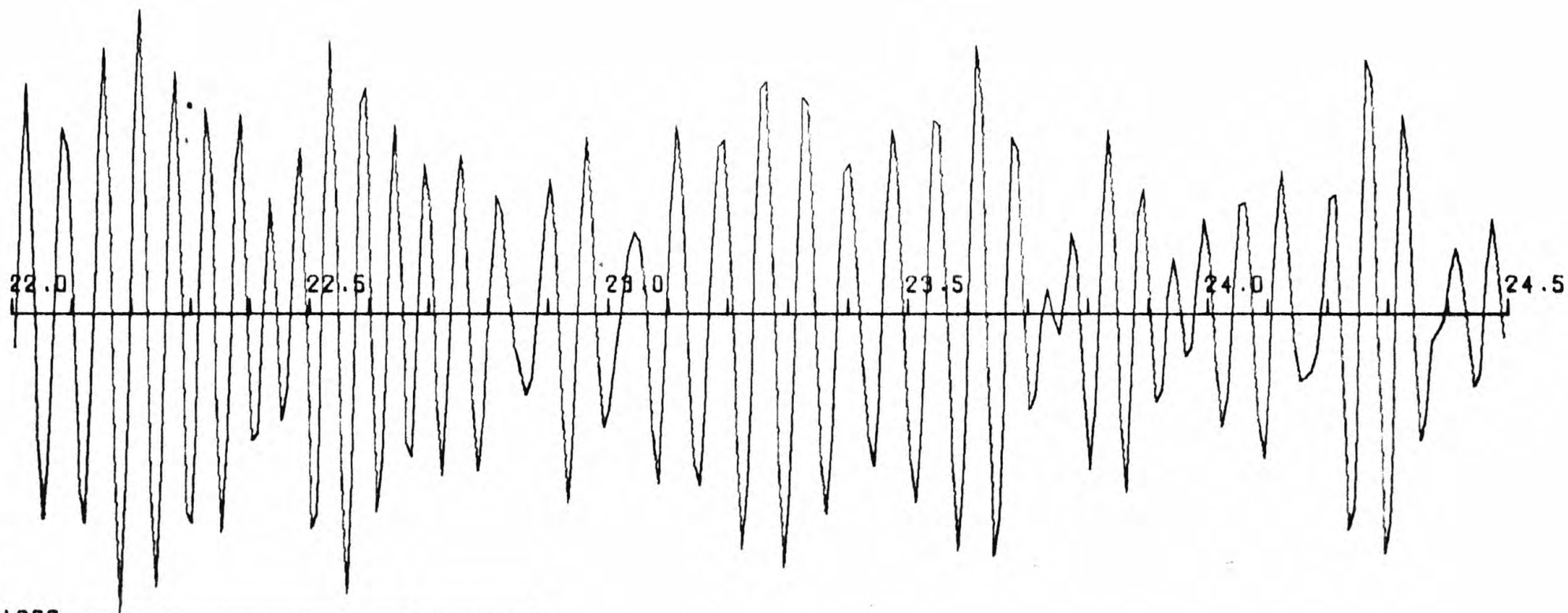
SHOT POINT 2

RECORDER LOCATION 227

DISTANCE FROM SHOT (KM) = 142.071

TSCALE (CM/SEC) = 10.0

205



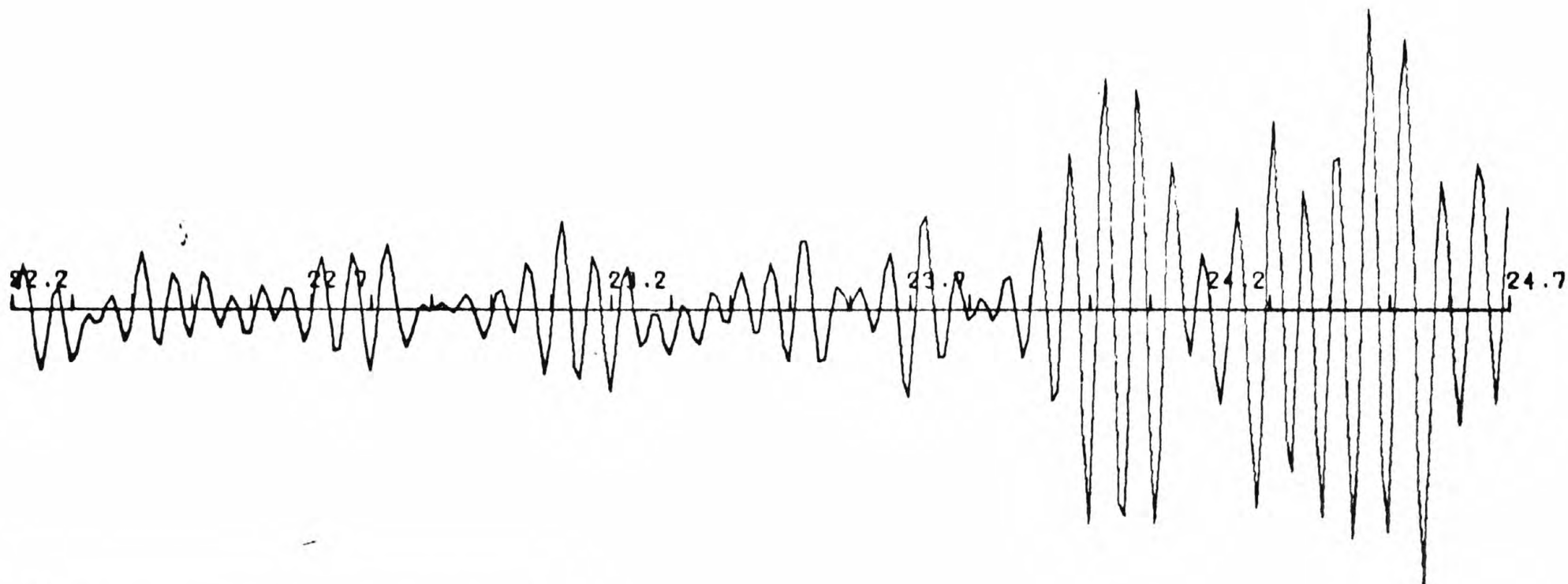
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 2

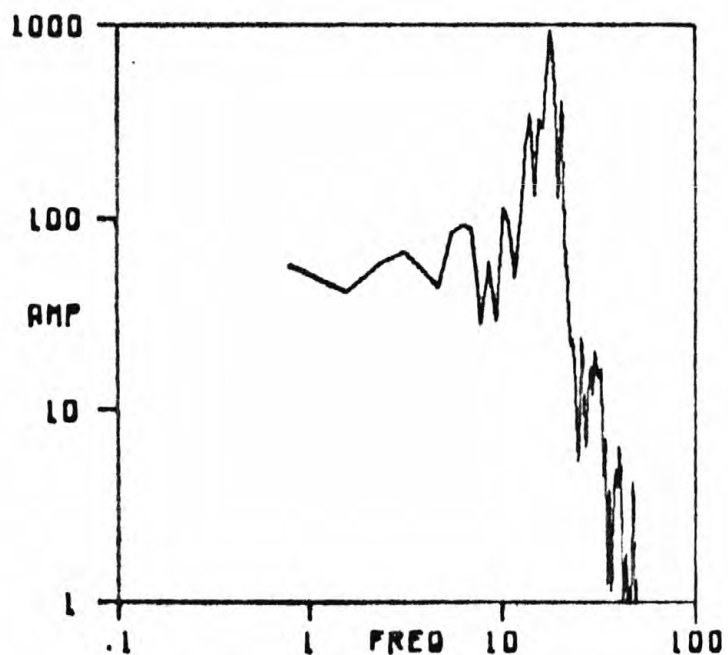
RECORDER LOCATION 226

DISTANCE FROM SHOT (KM) = 143.912

TSCALE (CM/SEC) = 10.0



206



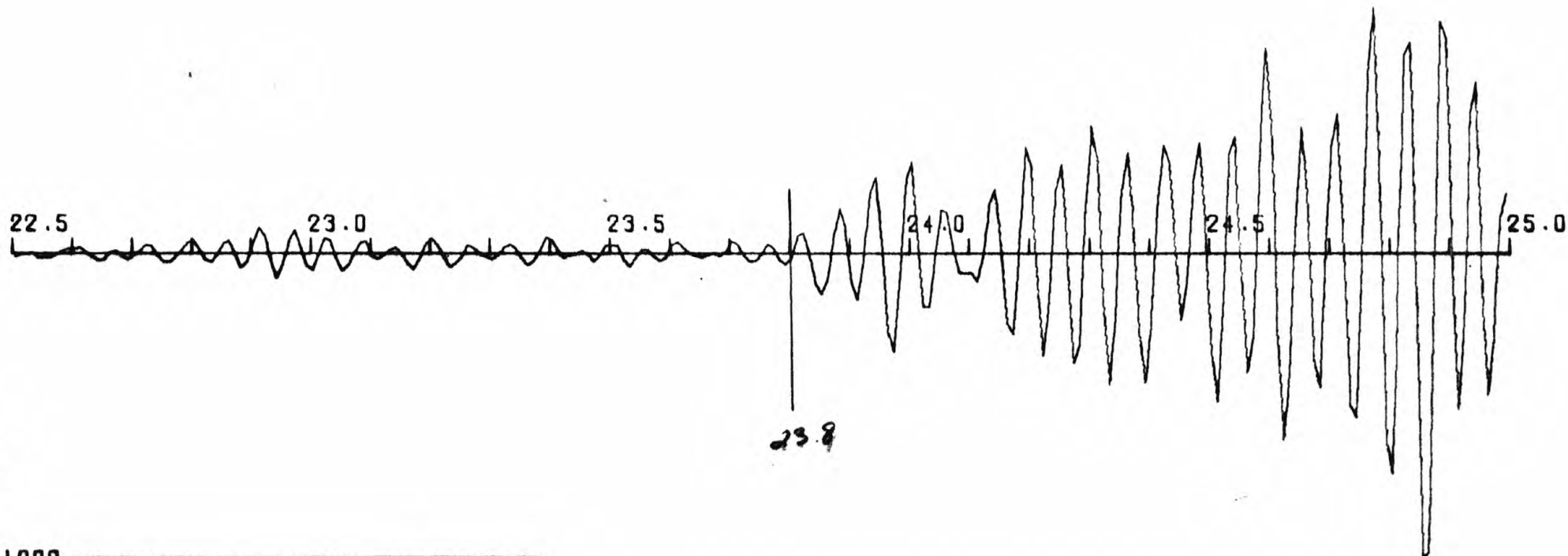
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 2

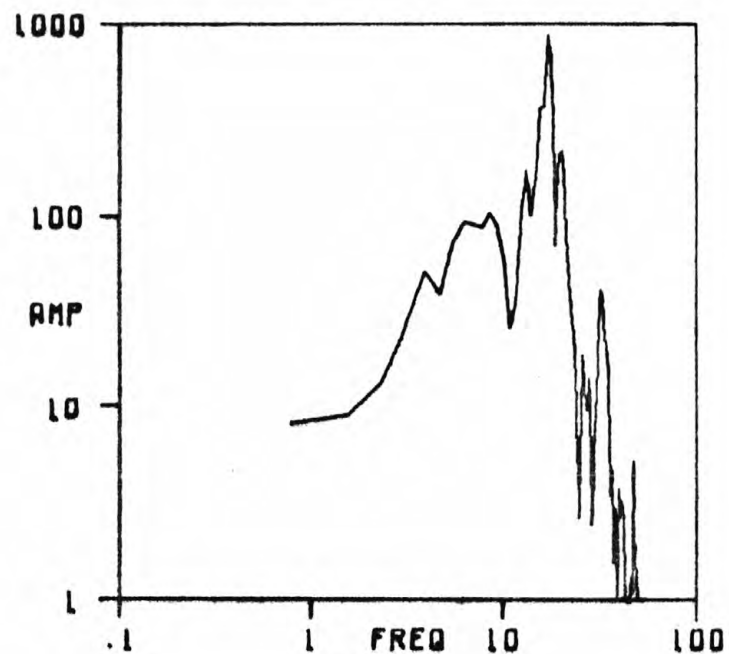
RECORDER LOCATION 225

DISTANCE FROM SHOT (KM) = 145.017

TSCALE (CM/SEC) = 10.0



207



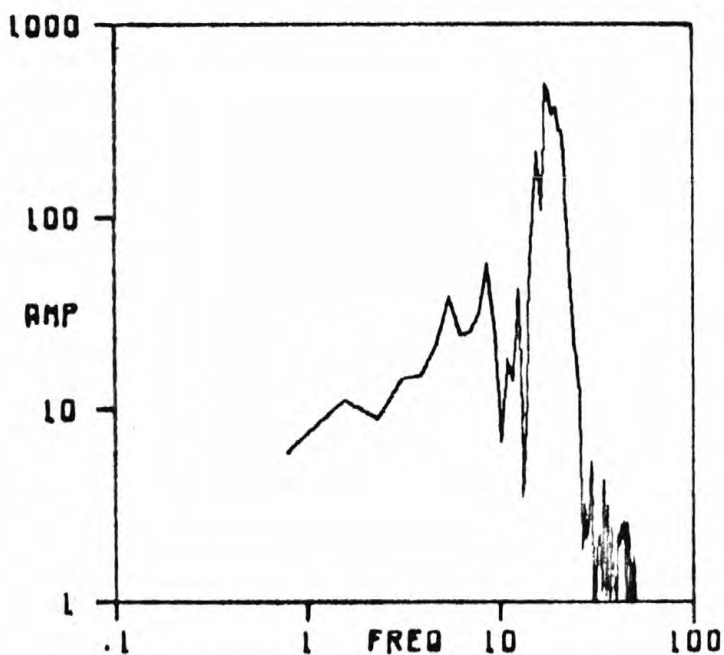
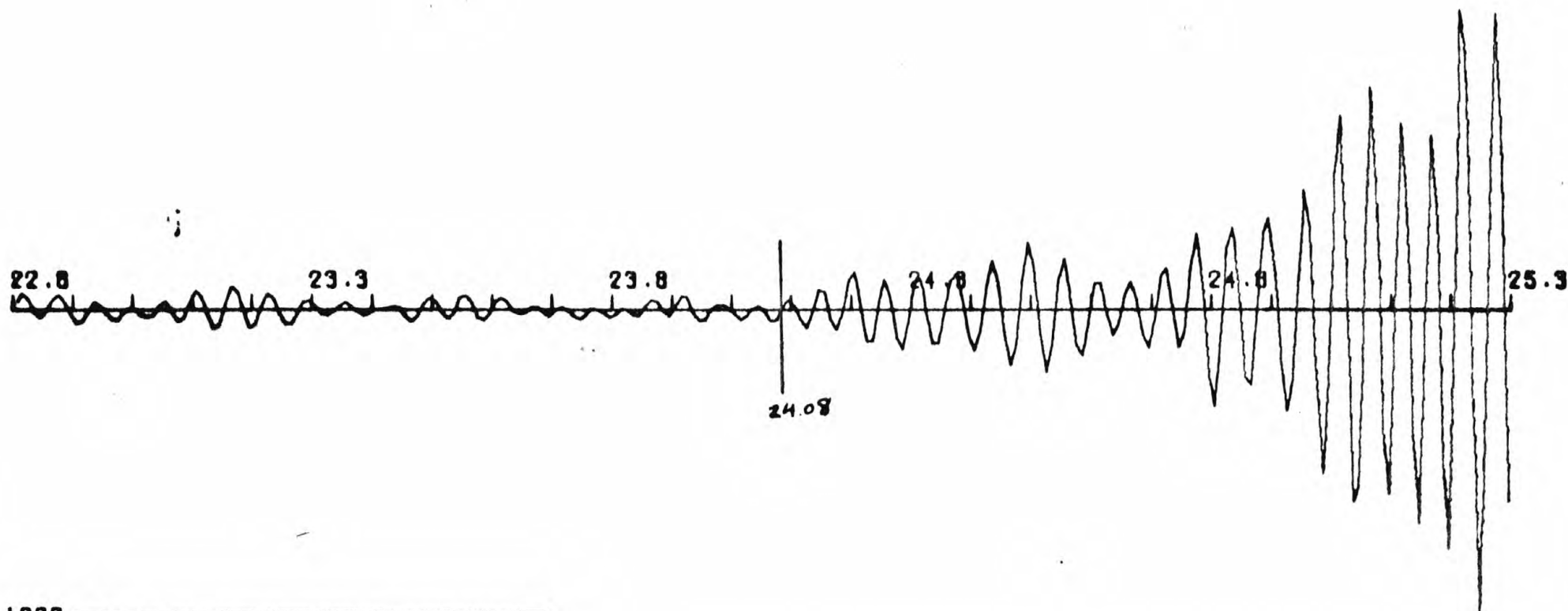
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 2

RECORDER LOCATION 224

DISTANCE FROM SHOT (KM) = 146.914

TSCALE (CM/SEC) = 10.0



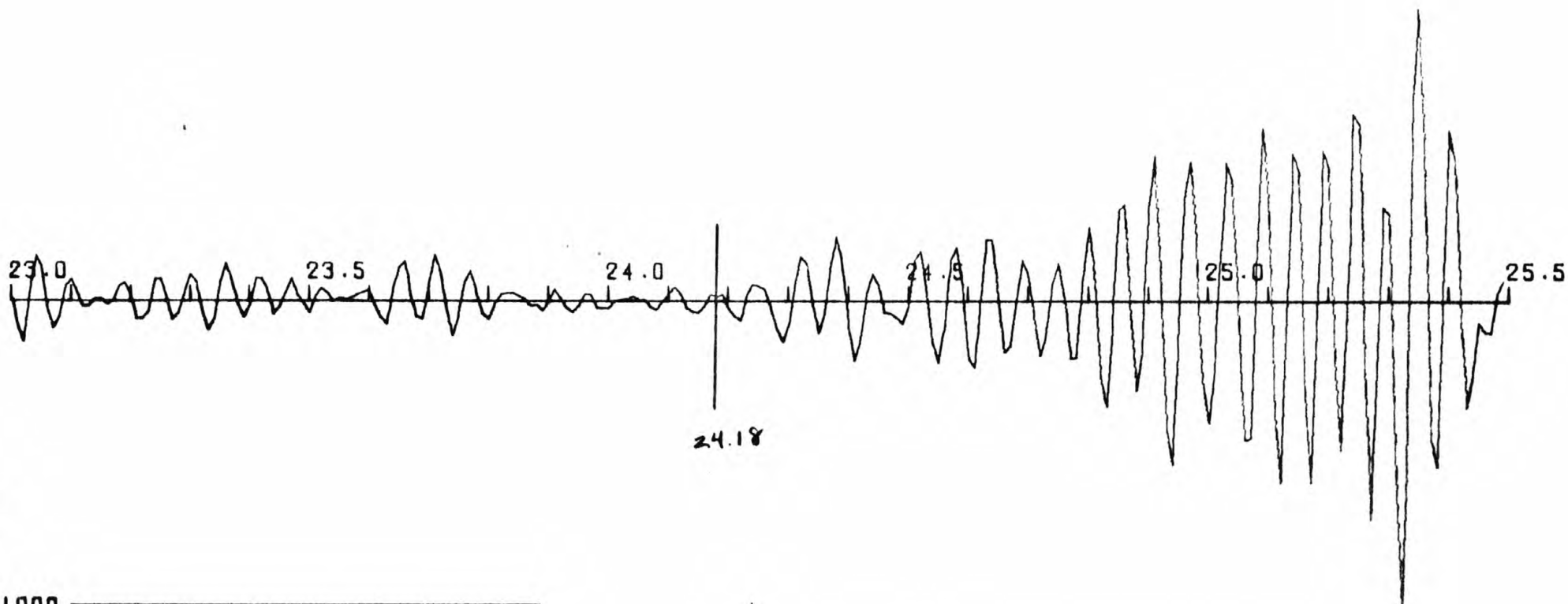
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 2

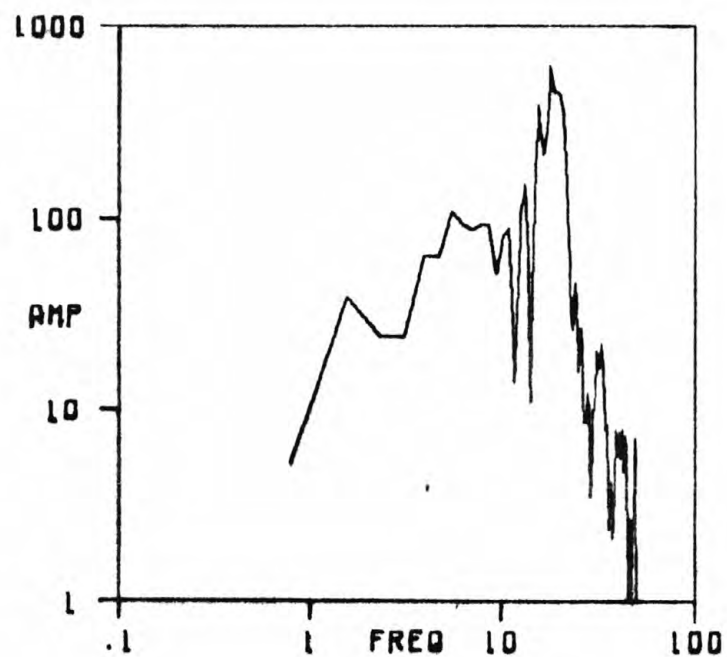
RECORDER LOCATION 223

DISTANCE FROM SHOT (KM) = 148.666

TSCALE (CM/SEC) = 10.0



209



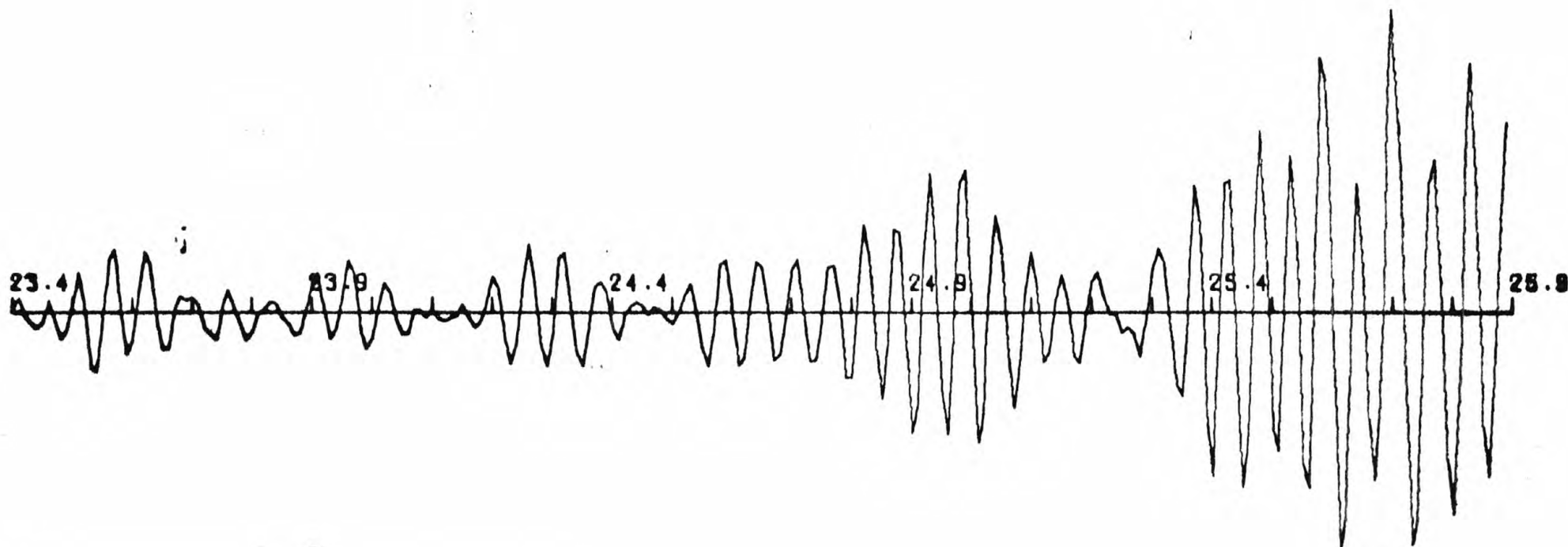
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 2

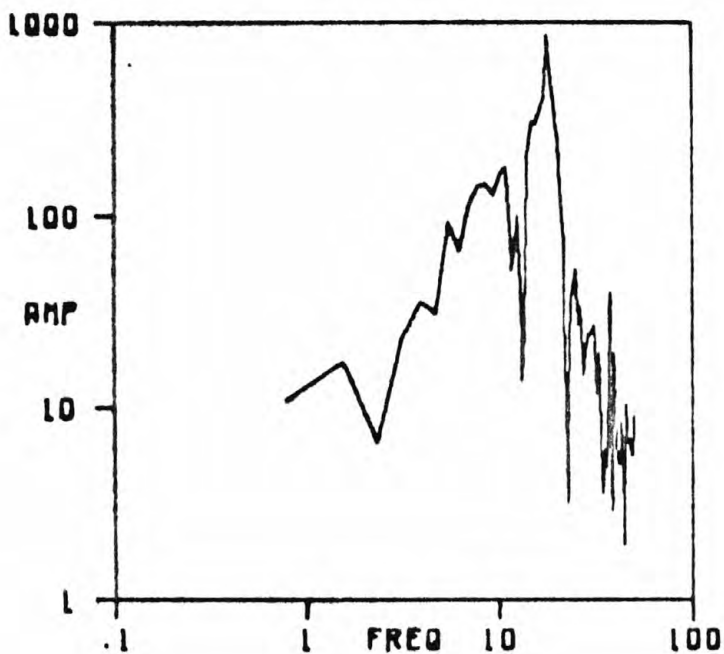
RECORDER LOCATION 222

DISTANCE FROM SHOT (KM) = 149.778

TSCALE (CM/SEC) = 10.0



212



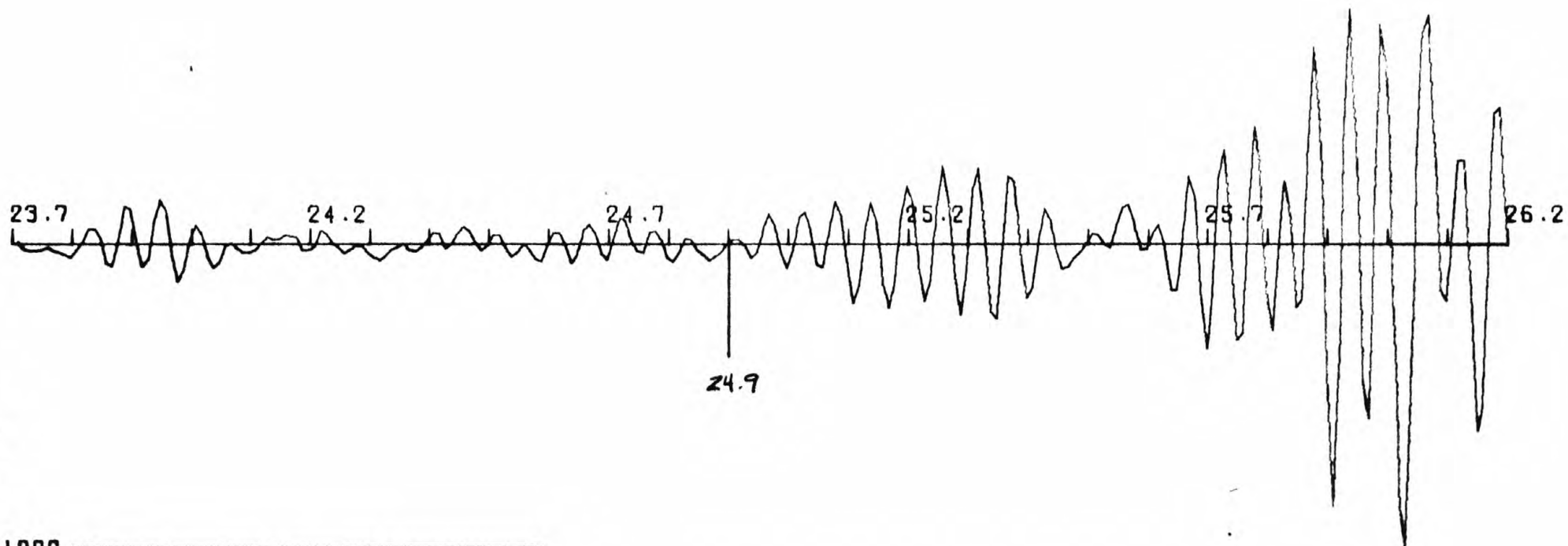
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 2

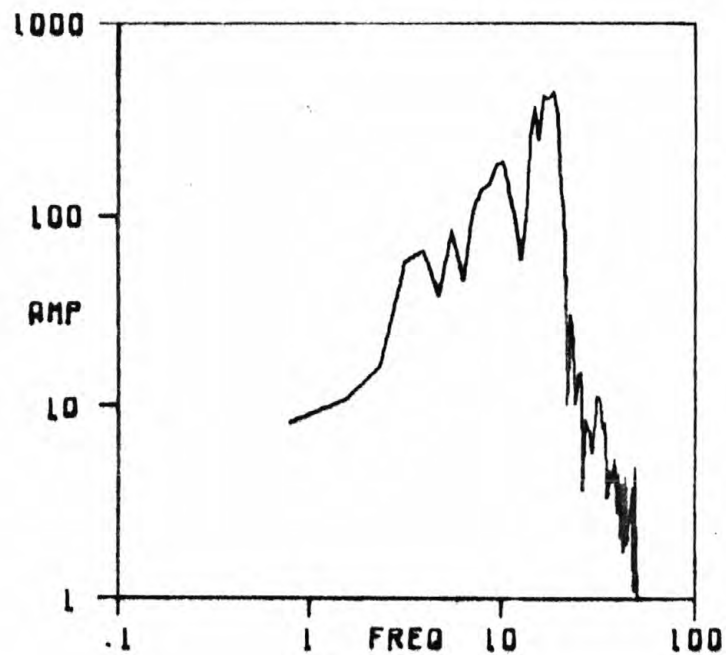
RECORDER LOCATION 221

DISTANCE FROM SHOT (KM) = 151.818

TSCALE (CM/SEC) = 10.0



211



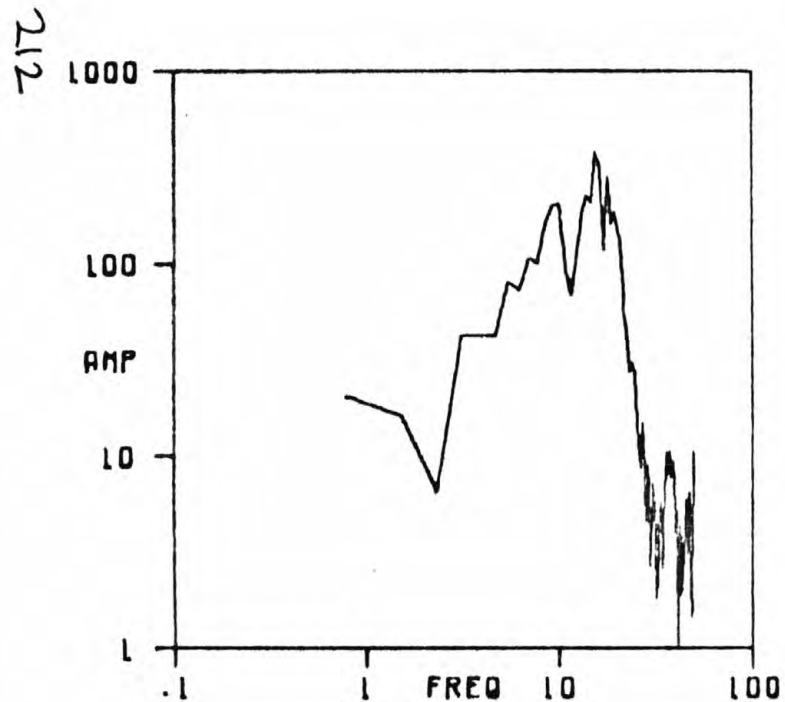
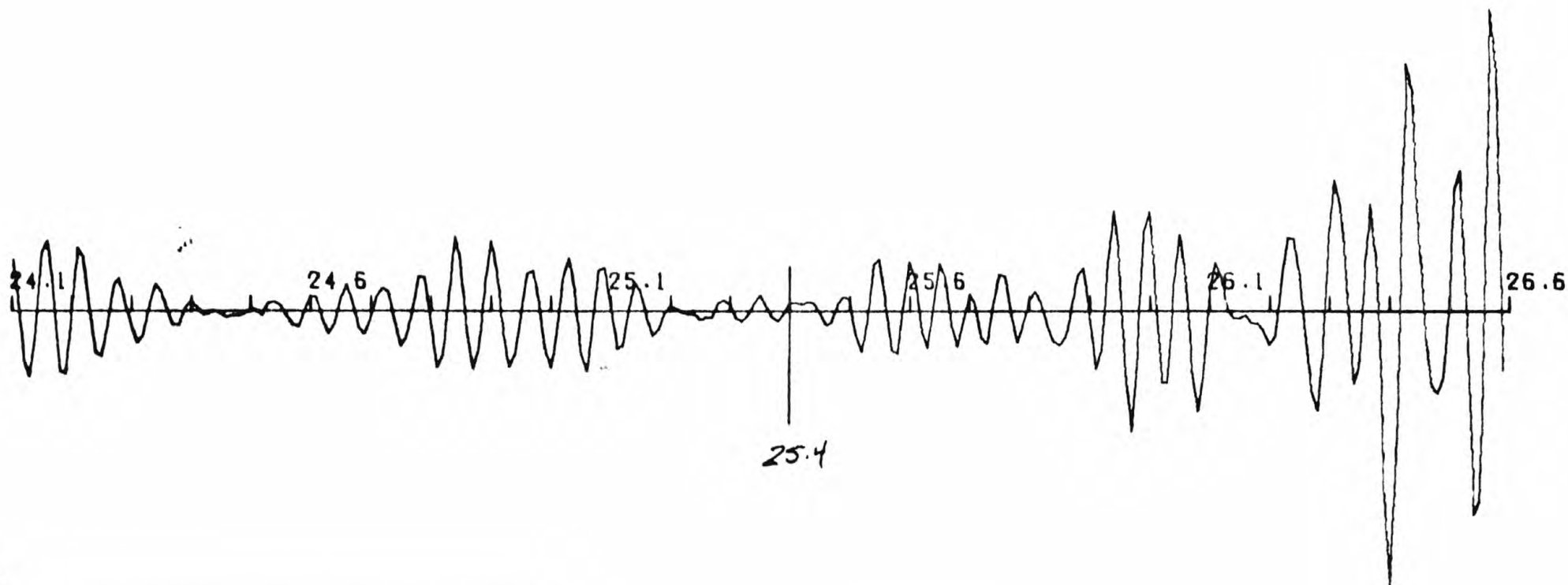
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 2

RECORDER LOCATION 220

DISTANCE FROM SHOT (KM) = 154.079

TSCALE (CM/SEC) = 10.0



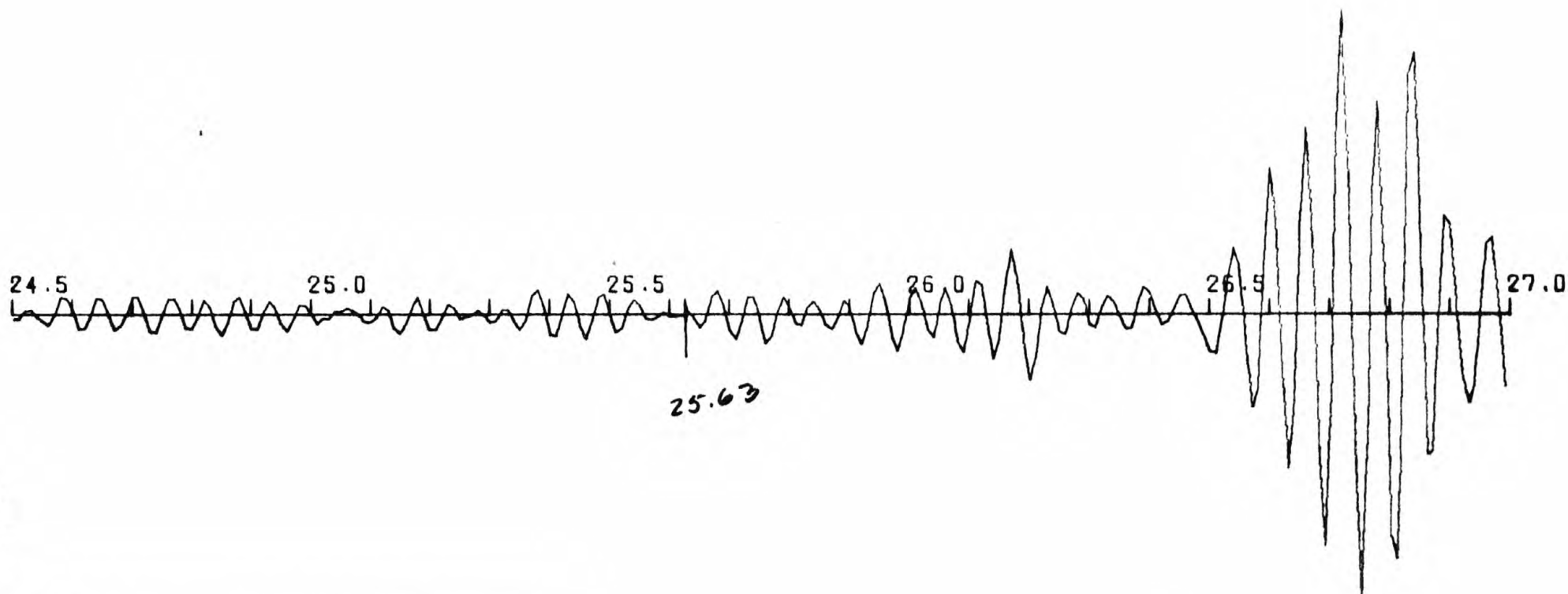
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 2

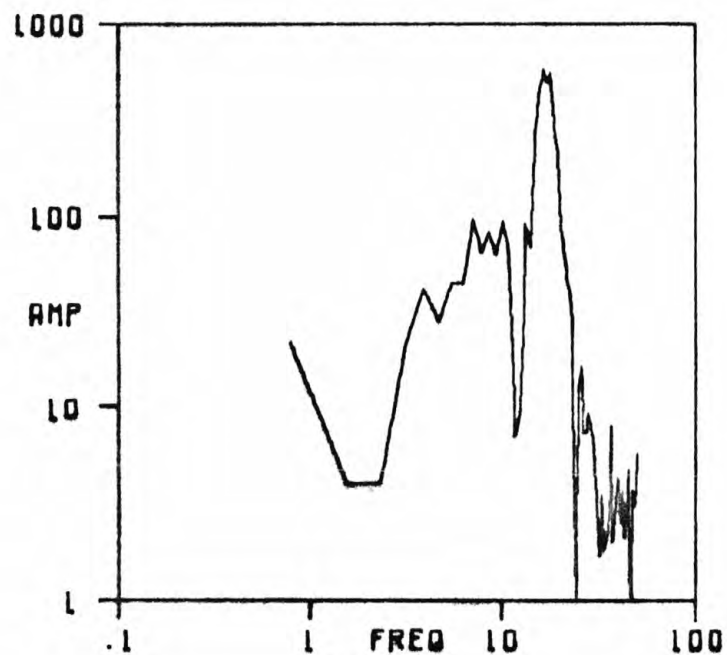
RECORDER LOCATION 218

DISTANCE FROM SHOT (KM) = 156.429

TSCALE (CM/SEC) = 10.0



213



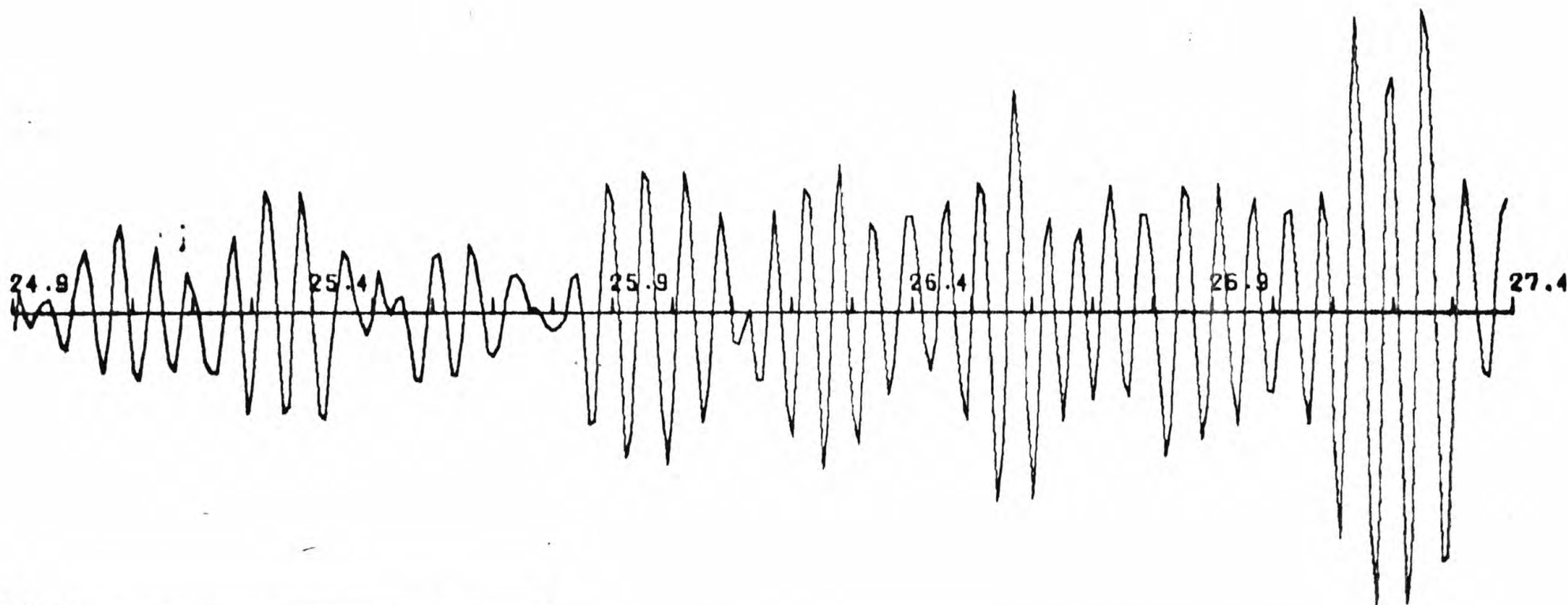
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 2

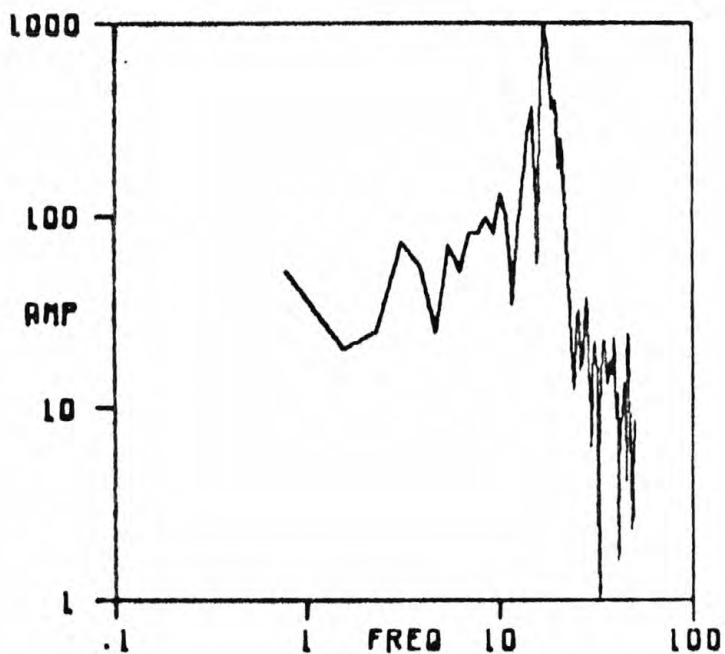
RECORDER LOCATION 217

DISTANCE FROM SHOT (KM) = 158.719

TSCALE (CM/SEC) = 10.0



214



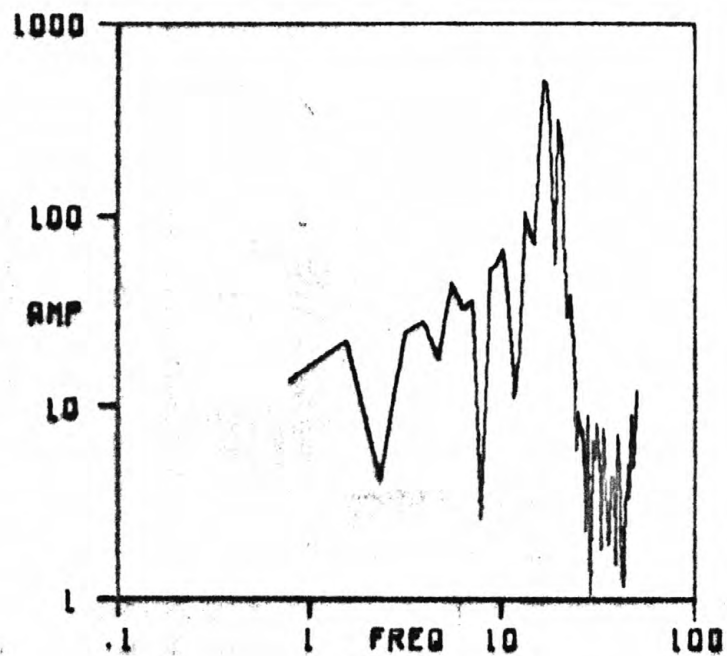
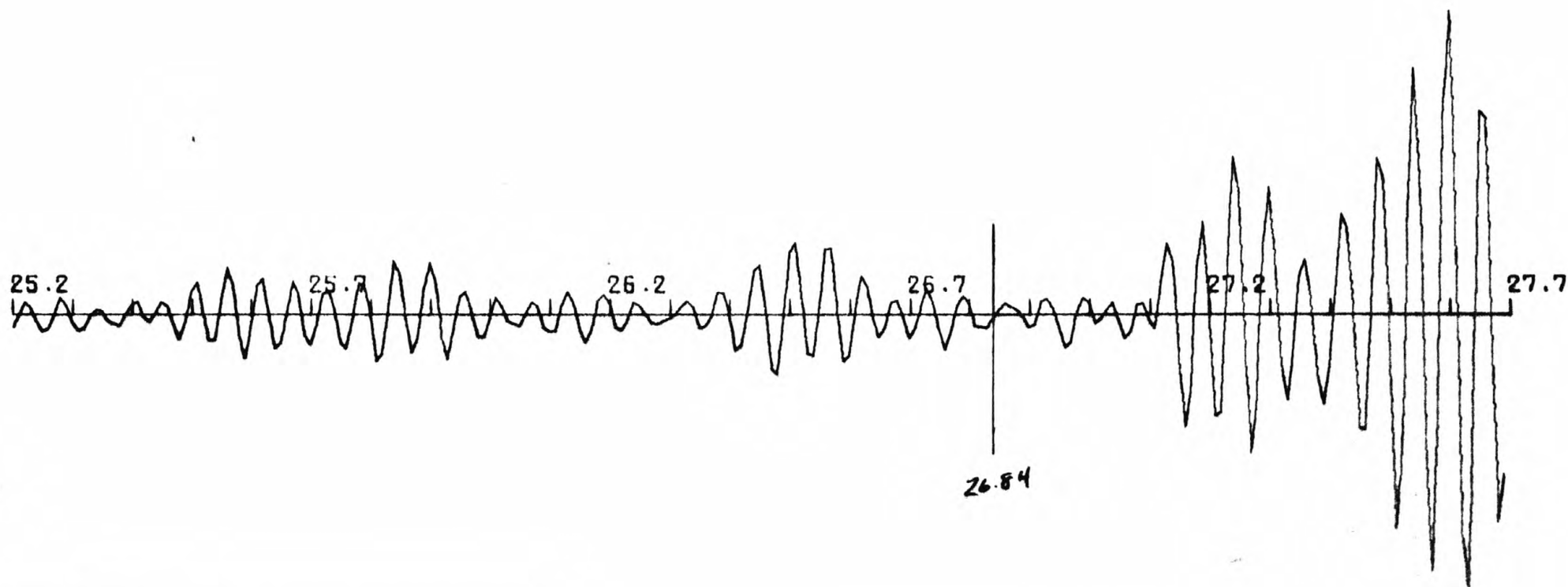
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 2

RECORDER LOCATION 216

DISTANCE FROM SHOT (KM) = 161.115

TSCALE (CM/SEC) = 10.0



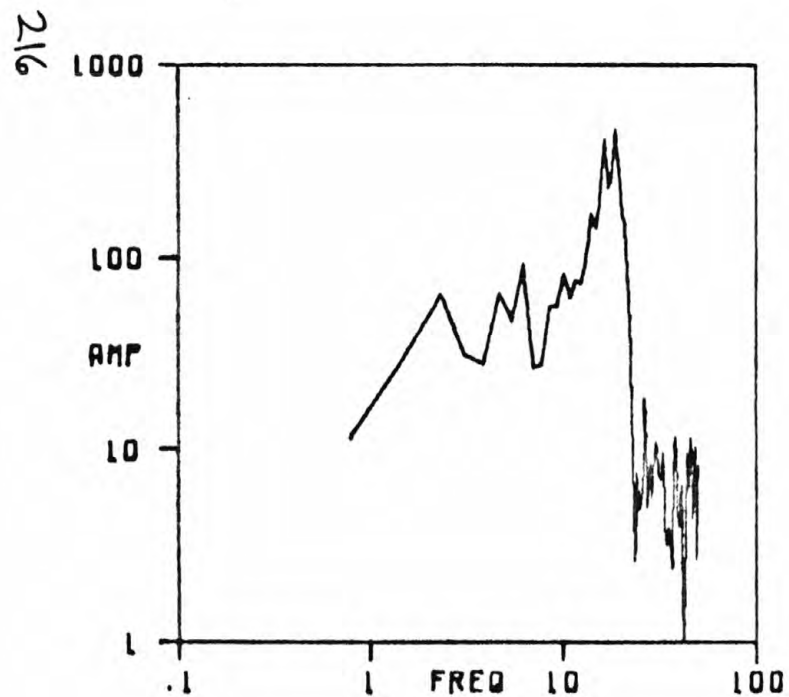
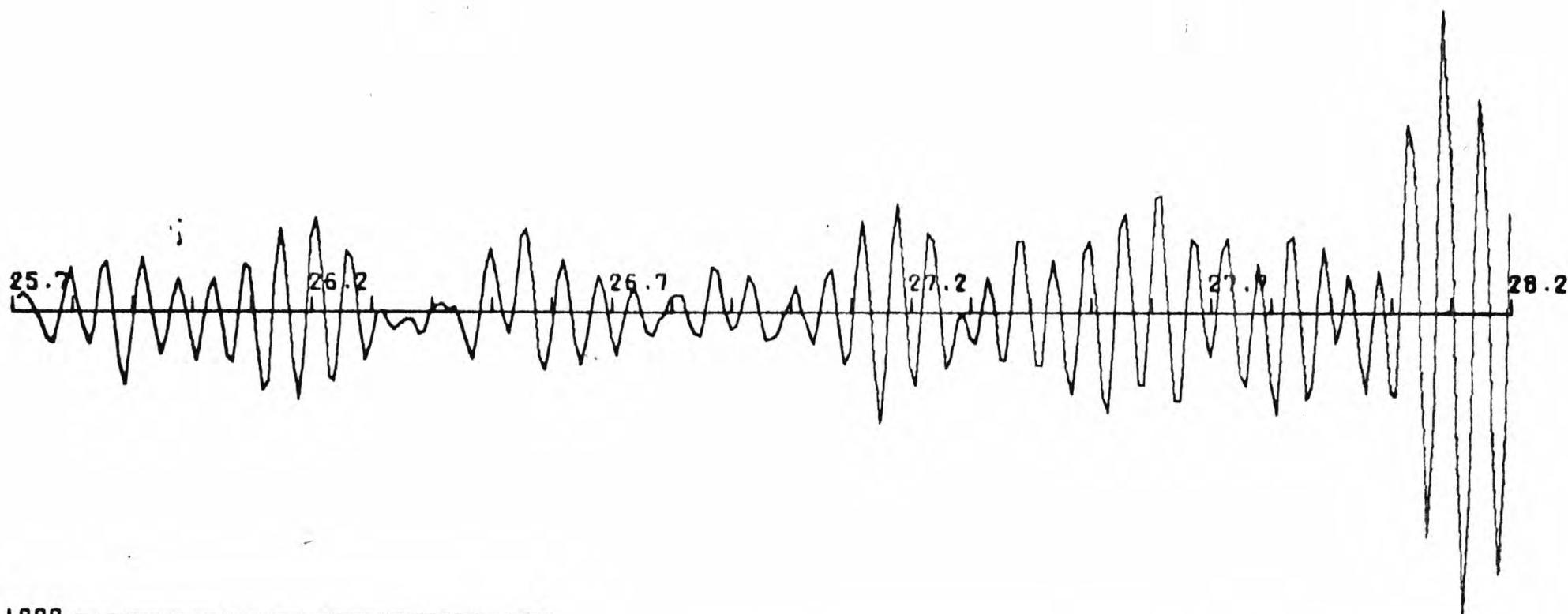
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 2

RECORDER LOCATION 215

DISTANCE FROM SHOT (KM) = 162.667

TS SCALE (CM/SEC) = 10.0



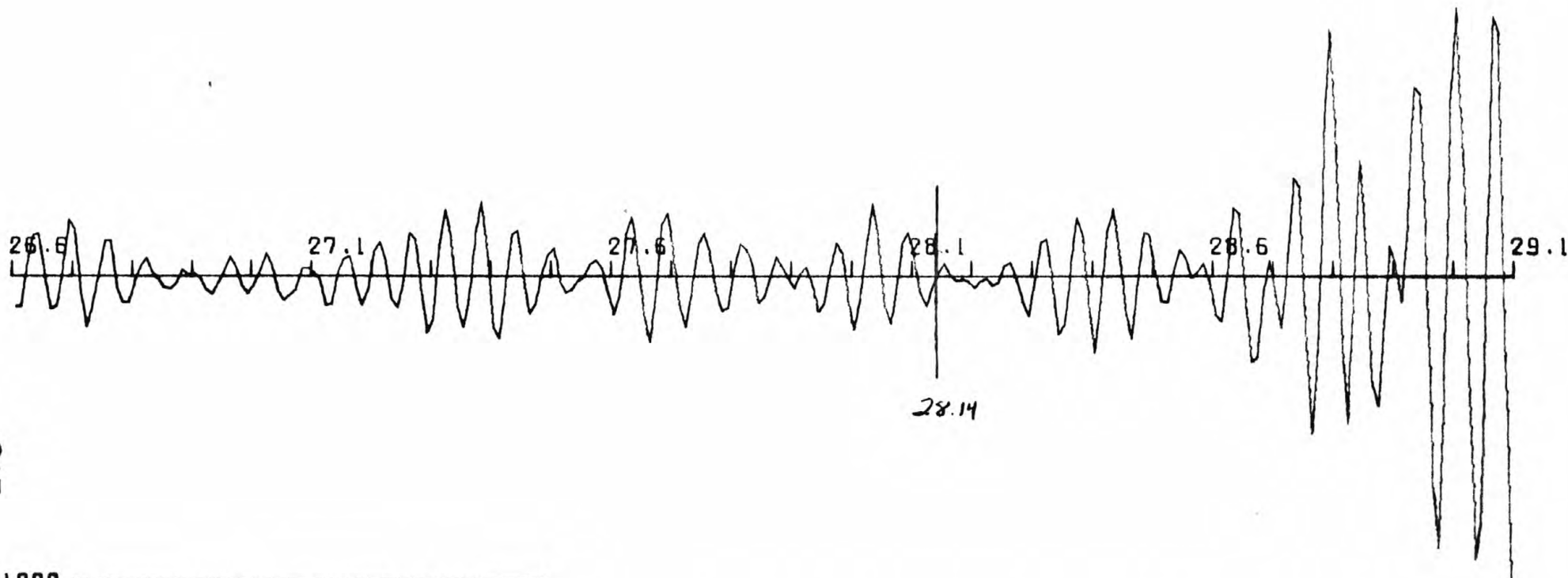
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 2

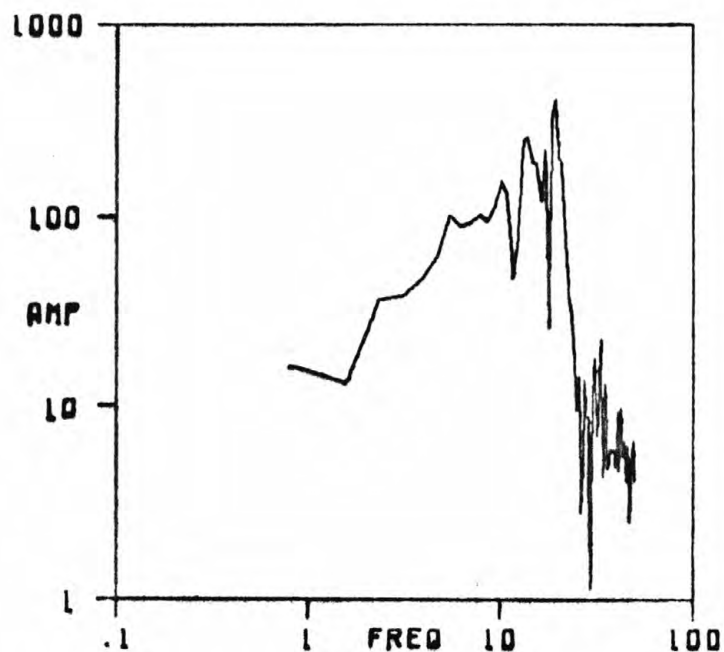
RECORDER LOCATION 213

DISTANCE FROM SHOT (KM) = 166.137

TSCALE (CM/SEC) = 10.0



217



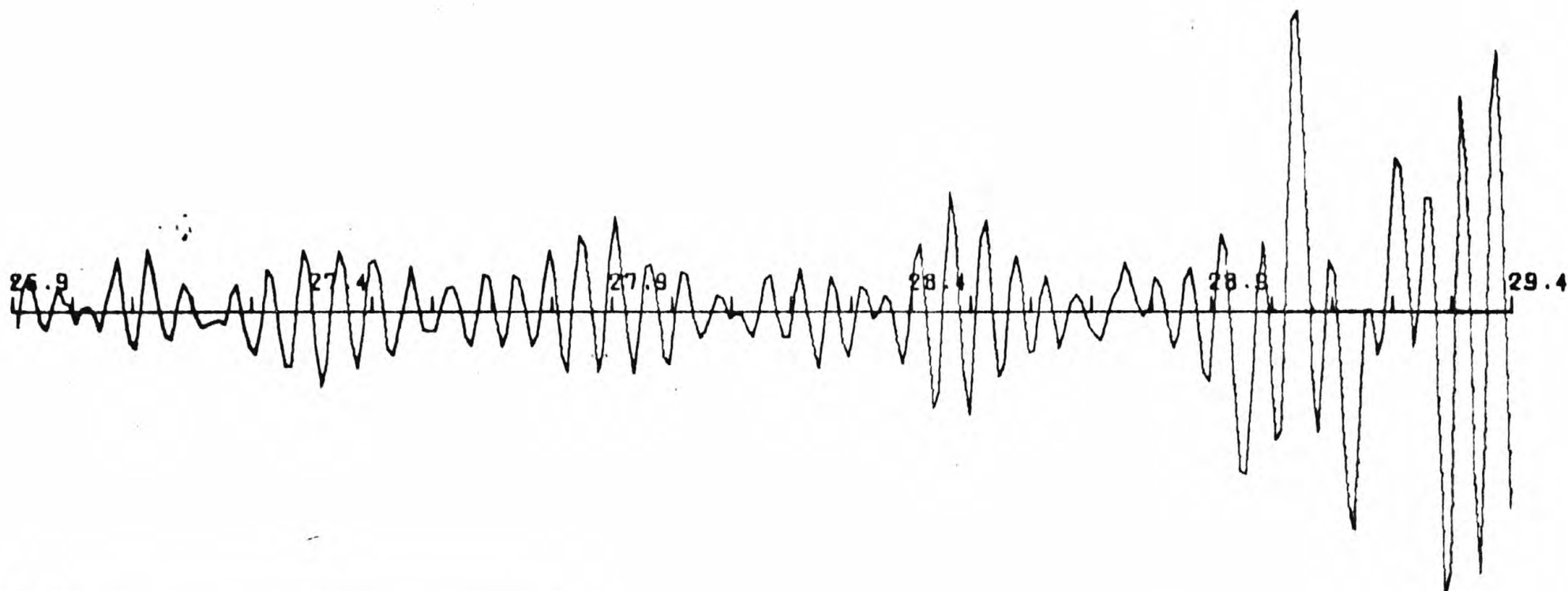
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 2

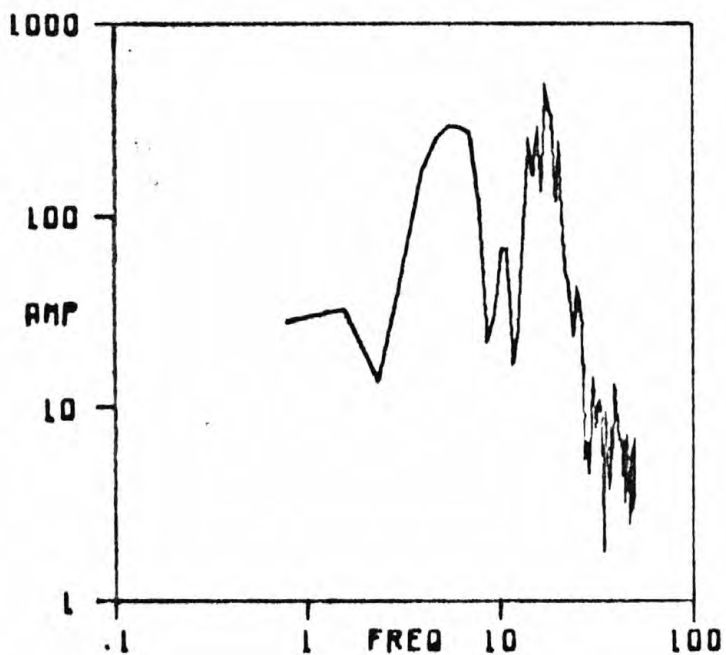
RECORDER LOCATION 210

DISTANCE FROM SHOT (KM) = 171.162

TSCALE (CM/SEC) = 10.0



218



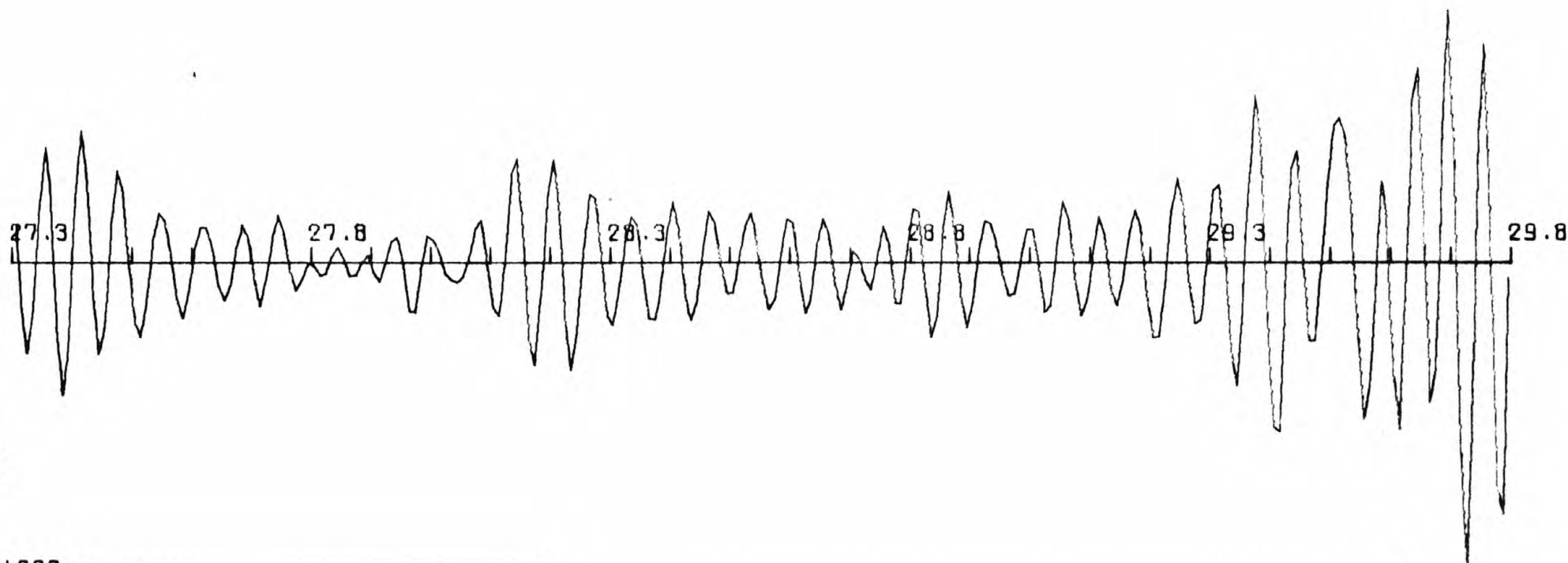
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 2

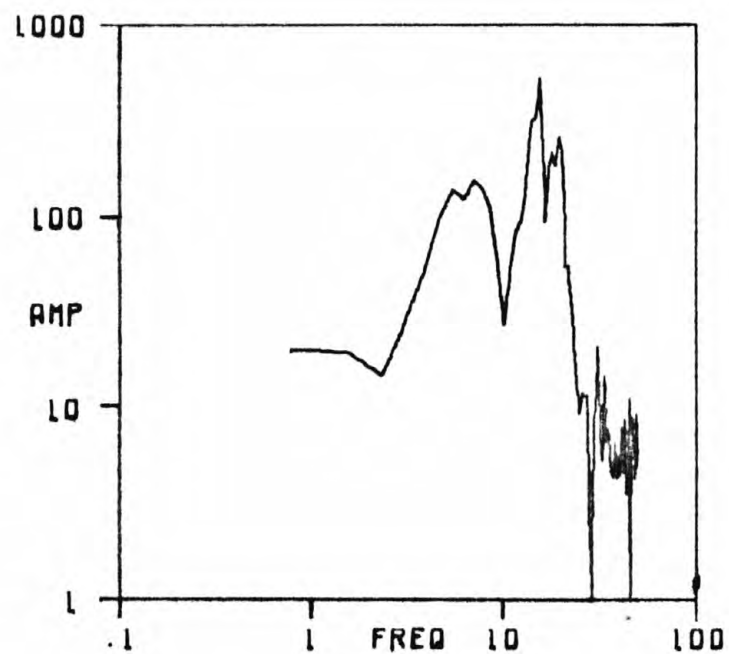
RECORDER LOCATION 209

DISTANCE FROM SHOT (KM) = 173.208

TSCALE (CM/SEC) = 10.0



219



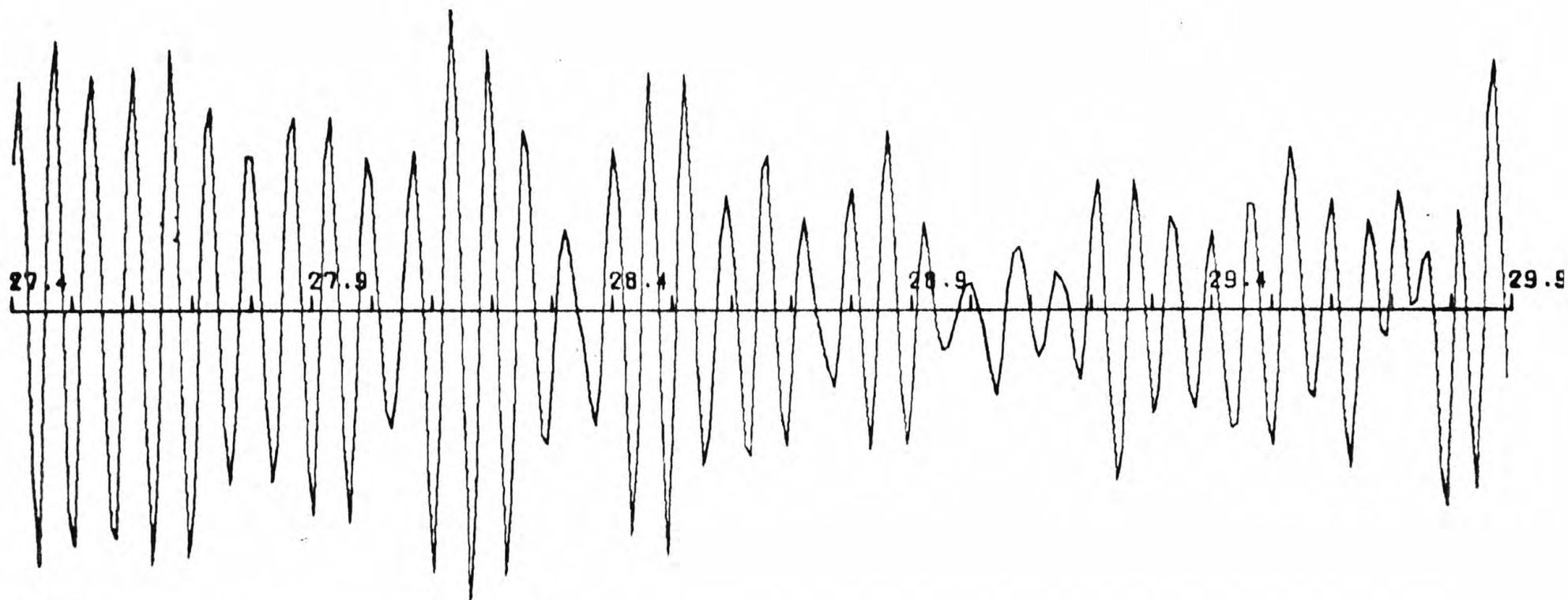
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 2

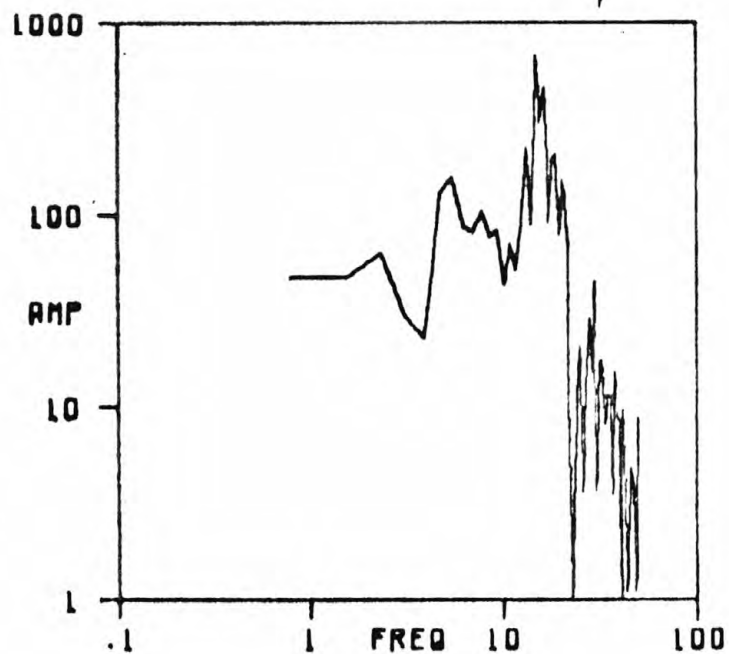
RECORDER LOCATION 208

DISTANCE FROM SHOT (KM) = 175.542

TSCALE (CM/SEC) = 10.0



220



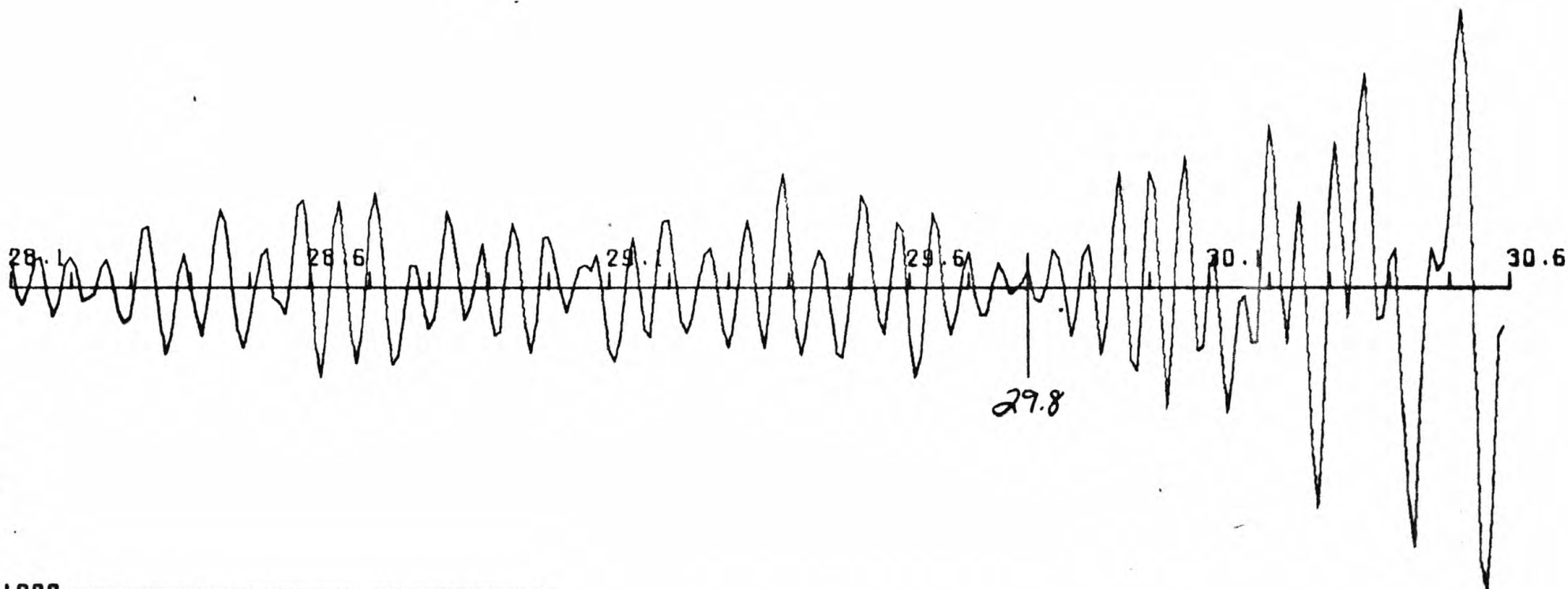
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 2

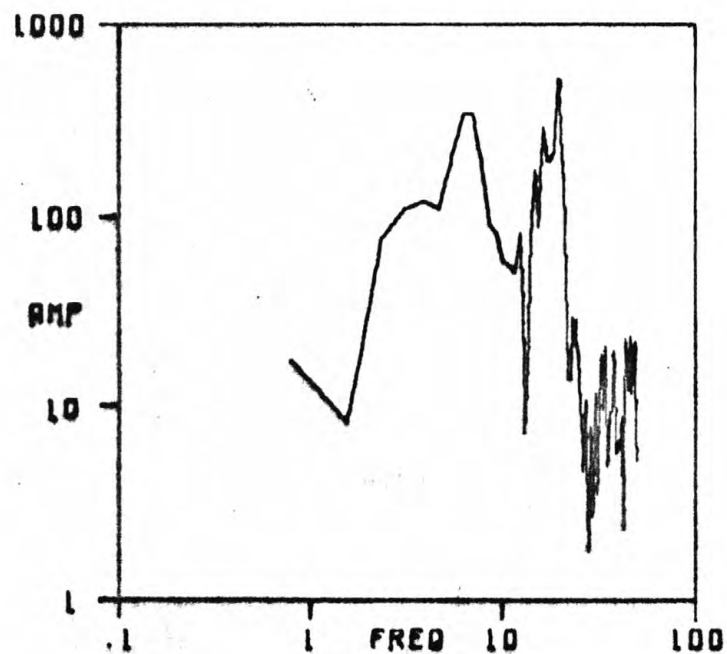
RECORDER LOCATION 207

DISTANCE FROM SHOT (KM) = 176.301

TSCALE (CM/SEC) = 10.0



221



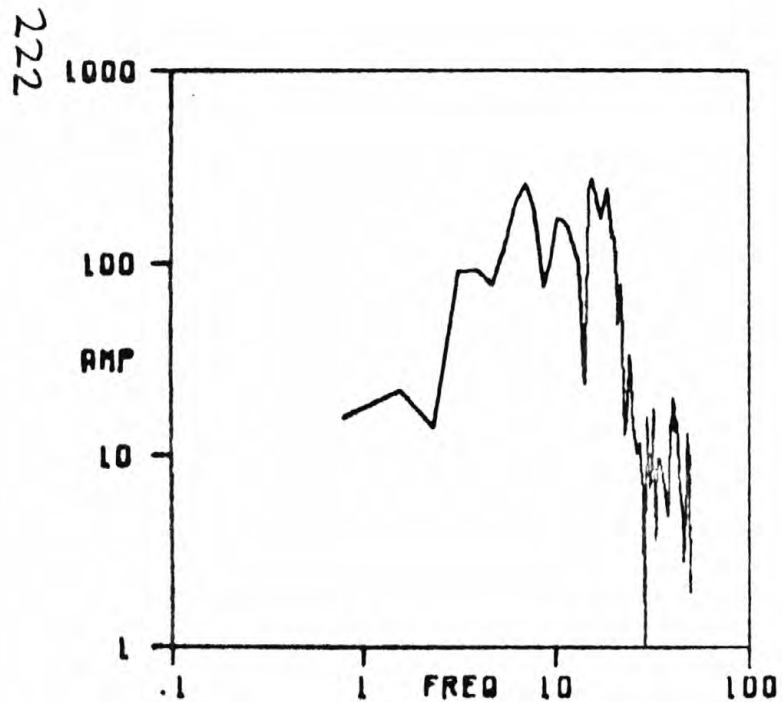
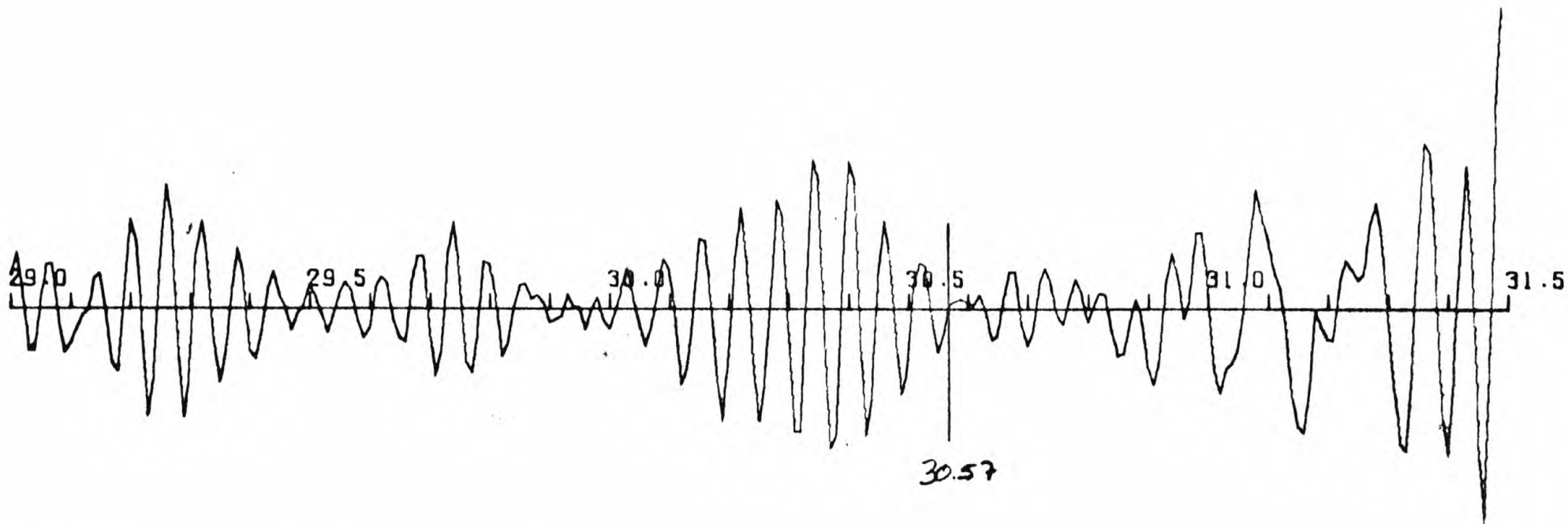
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 2

RECORDER LOCATION 205

DISTANCE FROM SHOT (KM) = 180.189

TS SCALE (CM/SEC) = 10.0



SAUDI REFRACTION PROFILE 15.20 BP

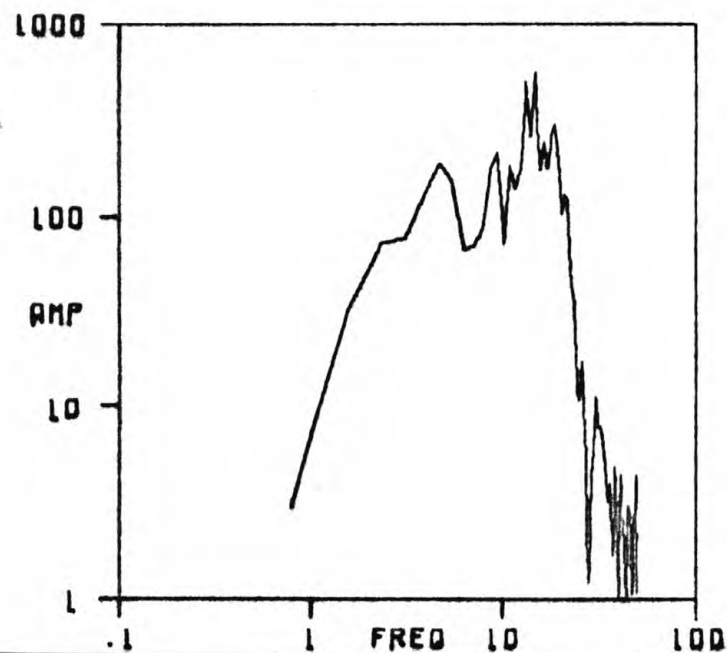
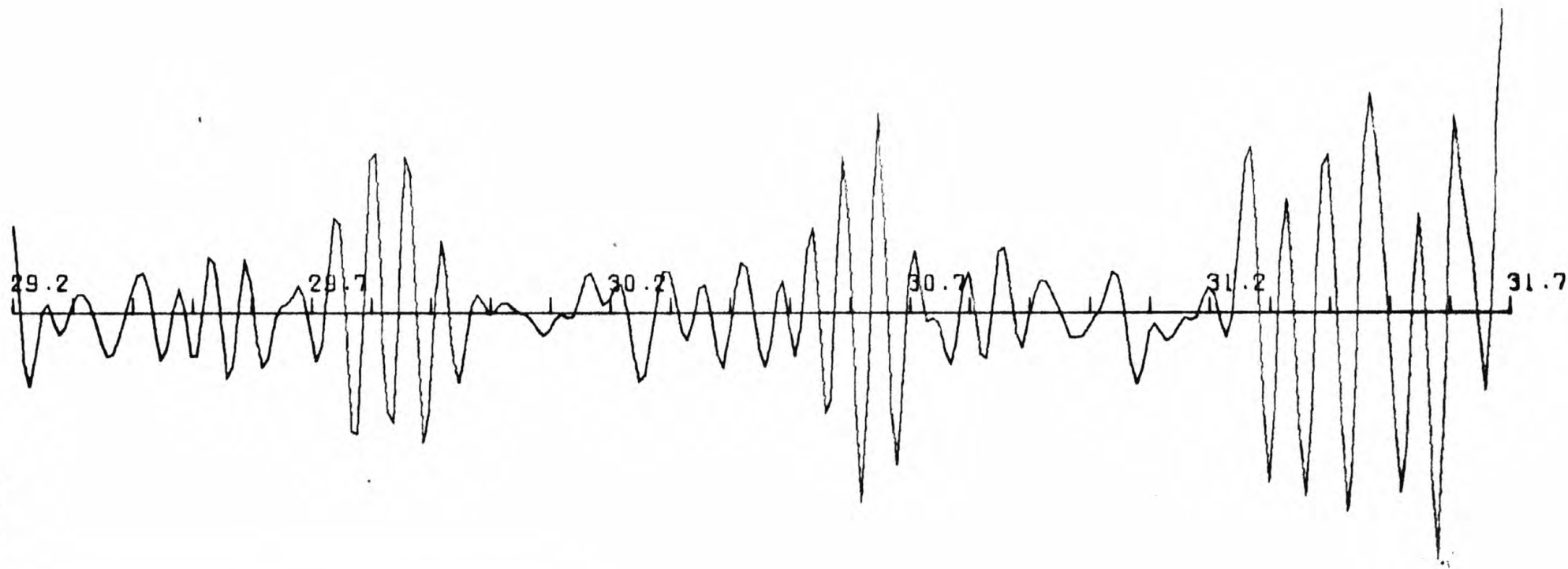
SHOT POINT 2

RECORDER LOCATION 203

DISTANCE FROM SHOT (KM) = 185.645

TSCALE (CM/SEC) = 10.0

223



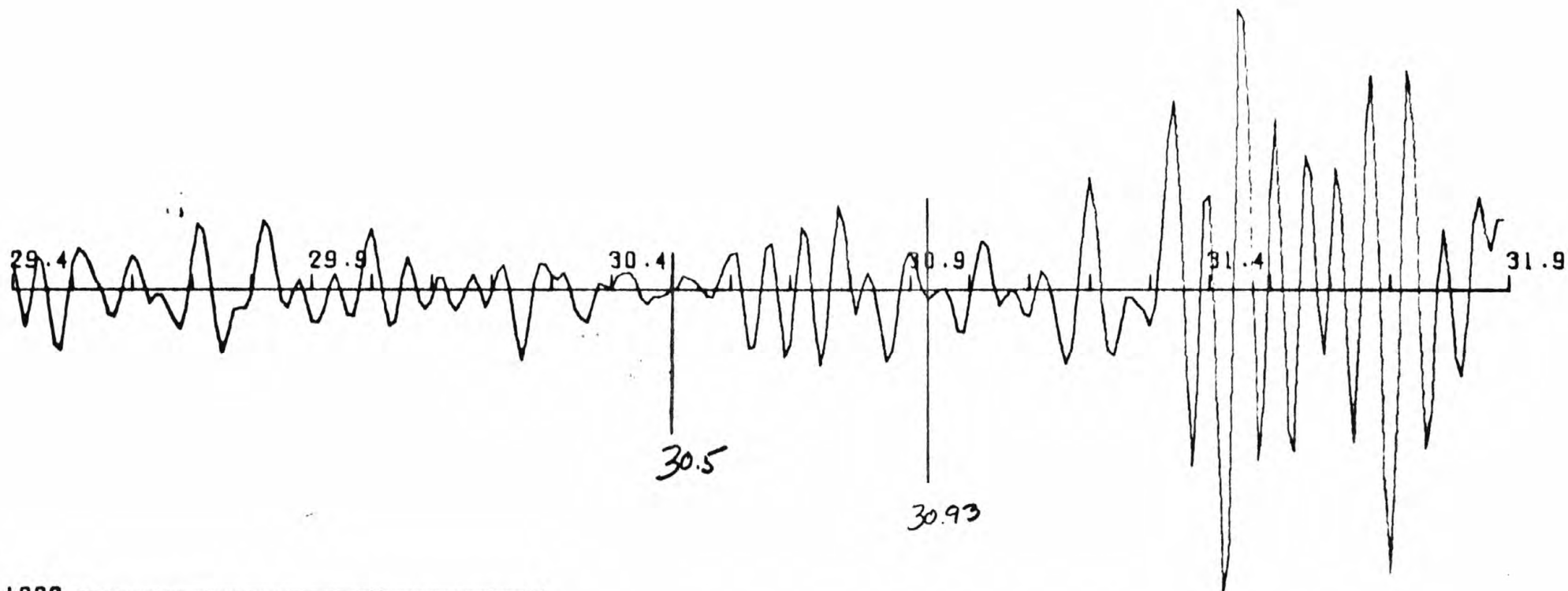
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 2

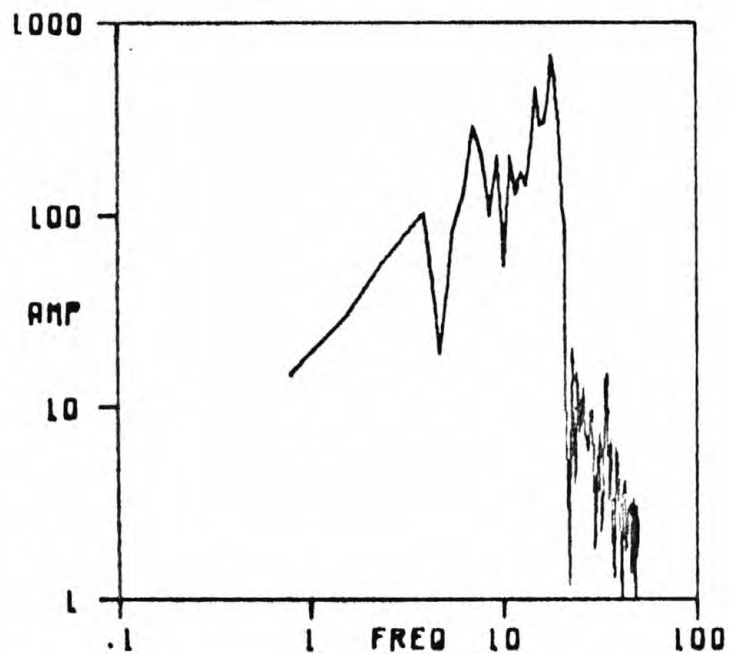
RECORDER LOCATION 200

DISTANCE FROM SHOT (KM) = 186.901

TS SCALE (CM/SEC) = 10.0



224



SAUDI REFRACTION PROFILE 15.20 BP

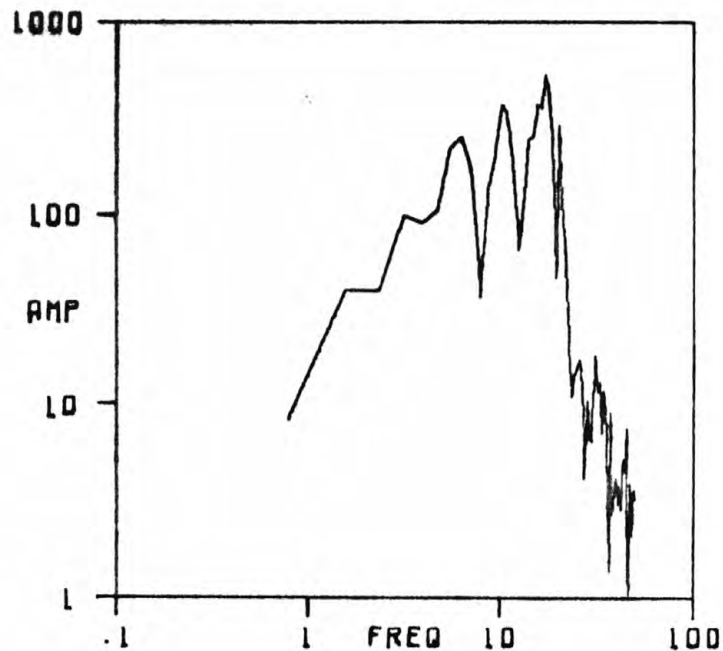
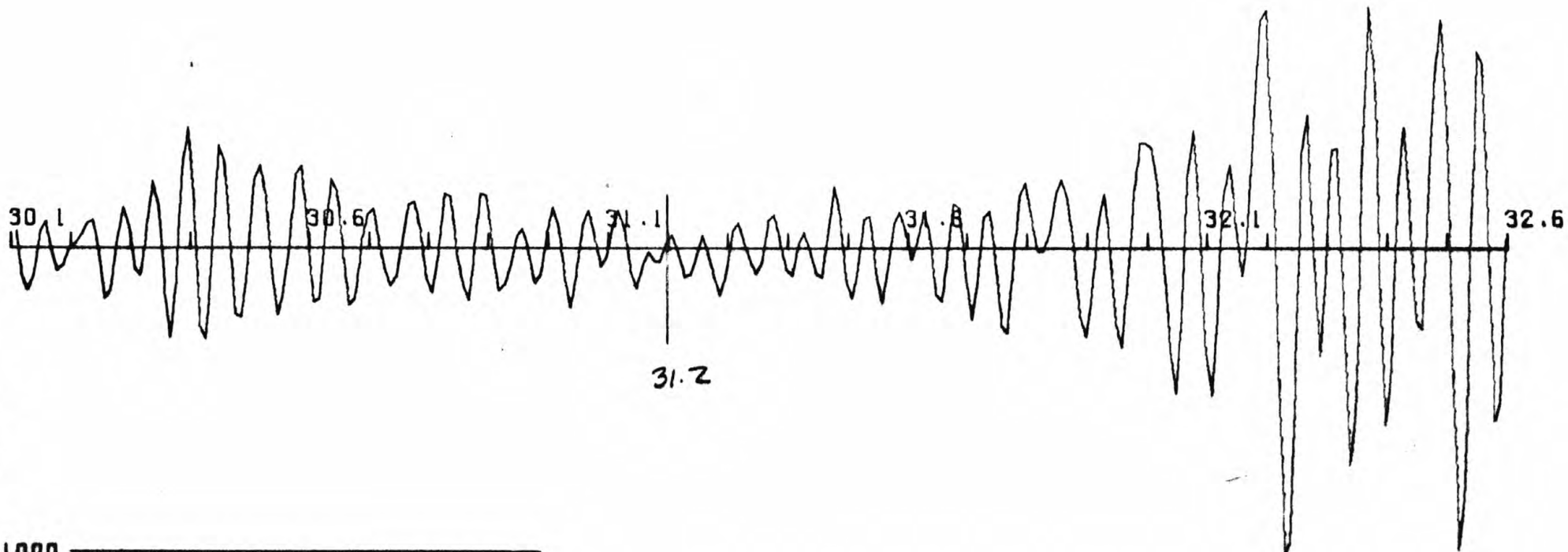
SHOT POINT 2

RECORDER LOCATION 199

DISTANCE FROM SHOT (KM) = 187.812

TSCALE (CM/SEC) = 10.0

225



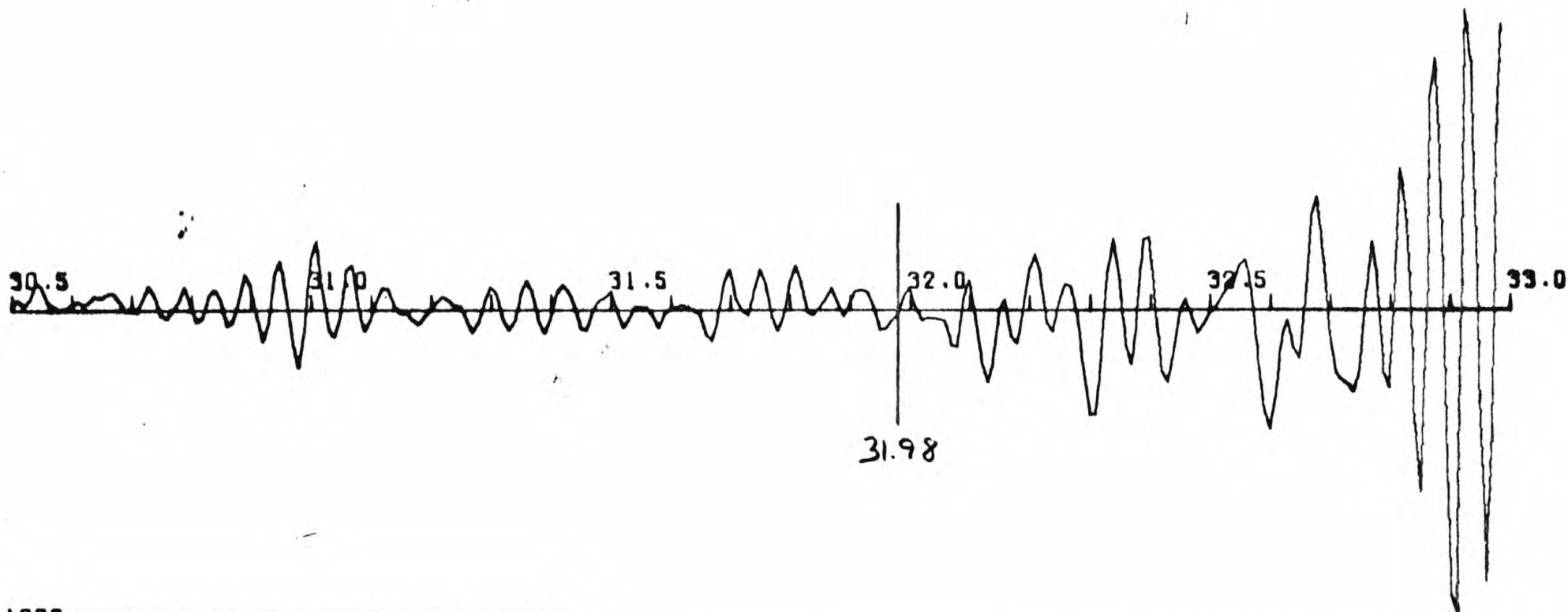
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 2

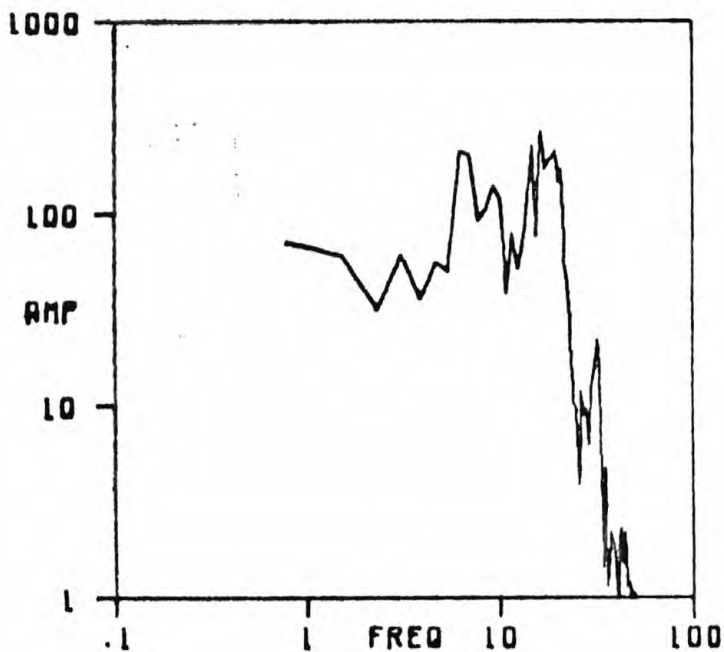
RECORDER LOCATION 125

DISTANCE FROM SHOT (KM) = 192.178

TSCALE (CM/SEC) = 10.0



226



SAUDI REFRACTION PROFILE 15.20 BP

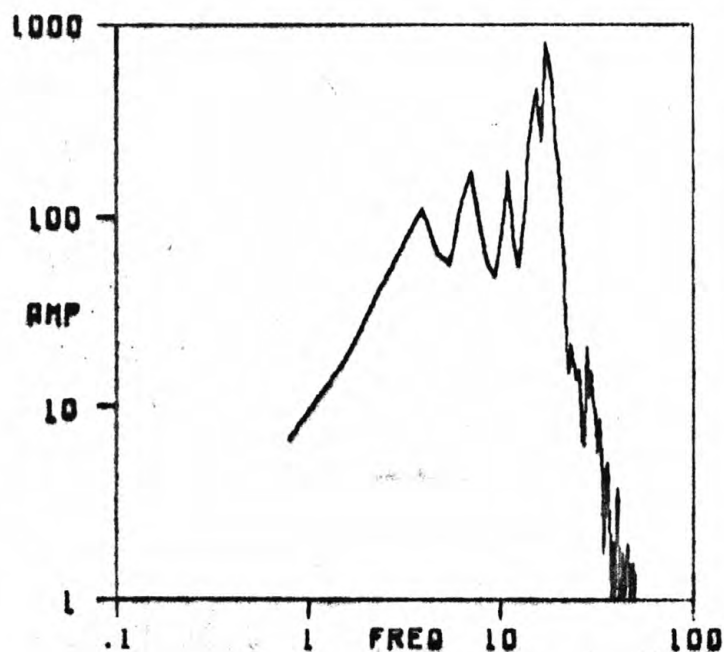
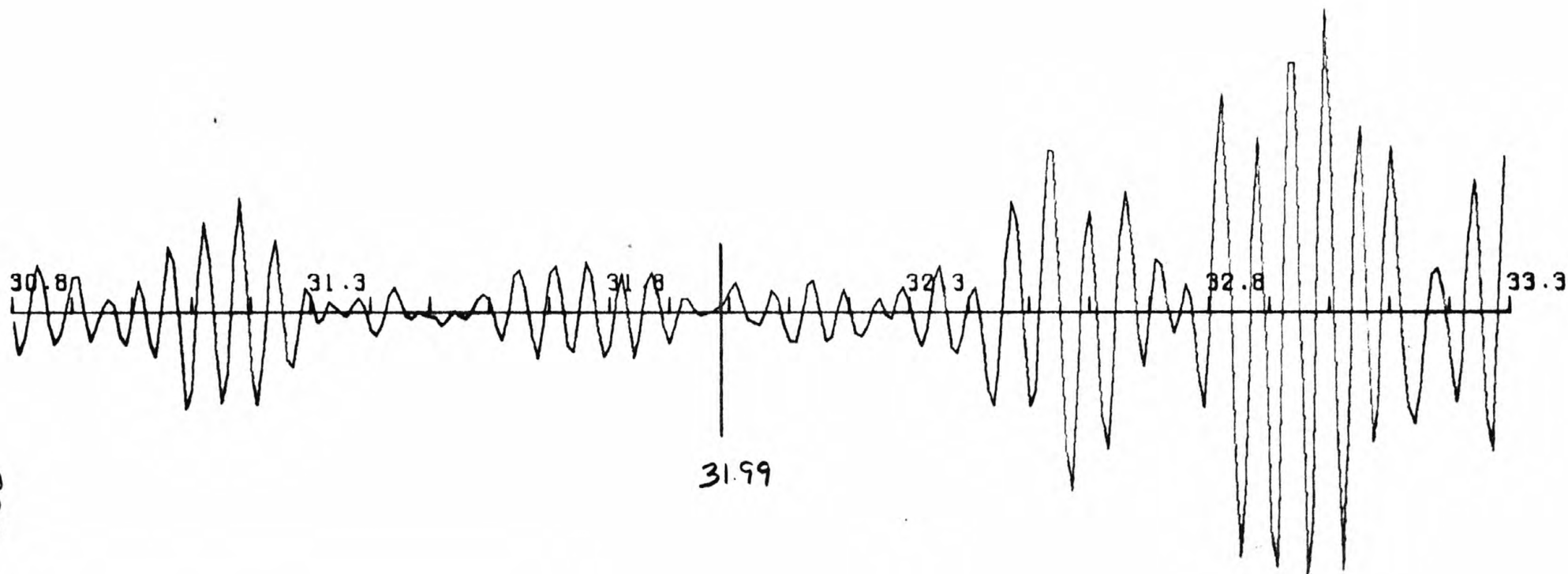
SHOT POINT 2

RECORDER LOCATION 123

DISTANCE FROM SHOT (KM) = 194.884

TSCALE (CM/SEC) = 10.0

227



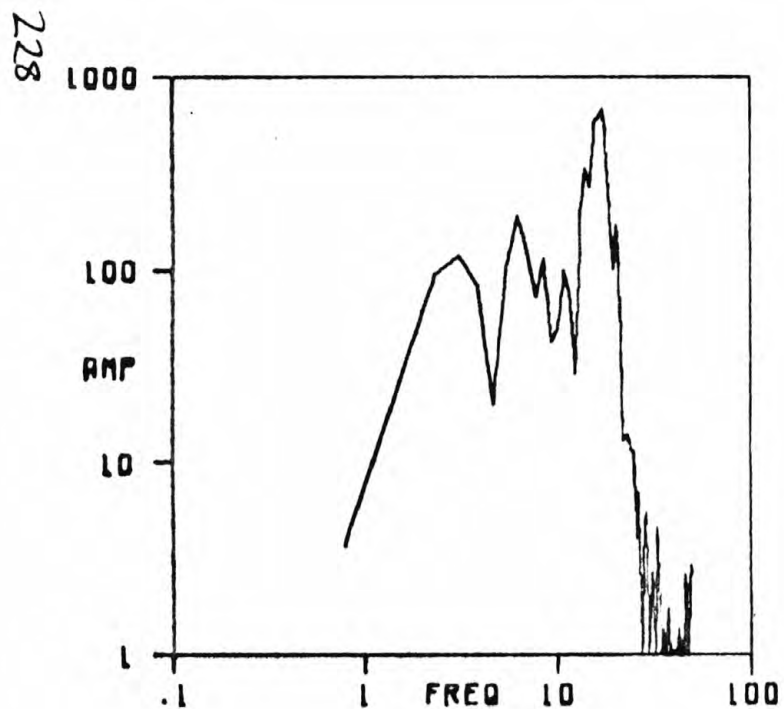
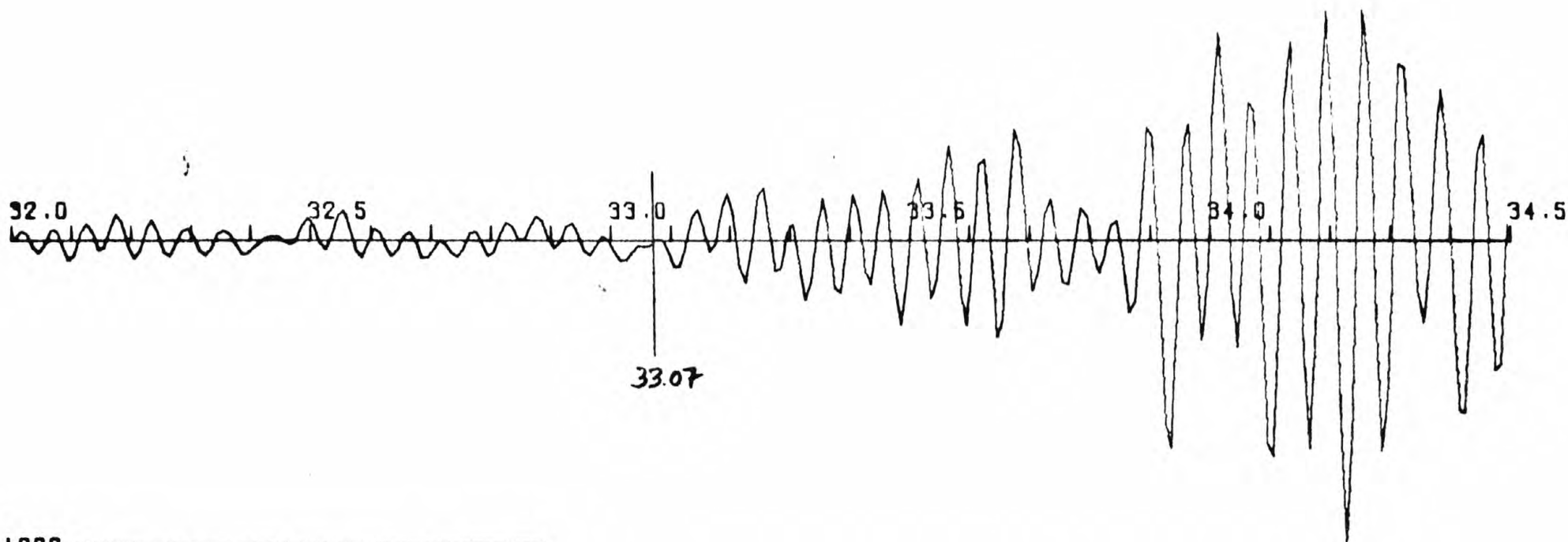
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 2

RECORDER LOCATION 122

DISTANCE FROM SHOT (KM) = 196.700

TSCALE (CM/SEC) = 10.0



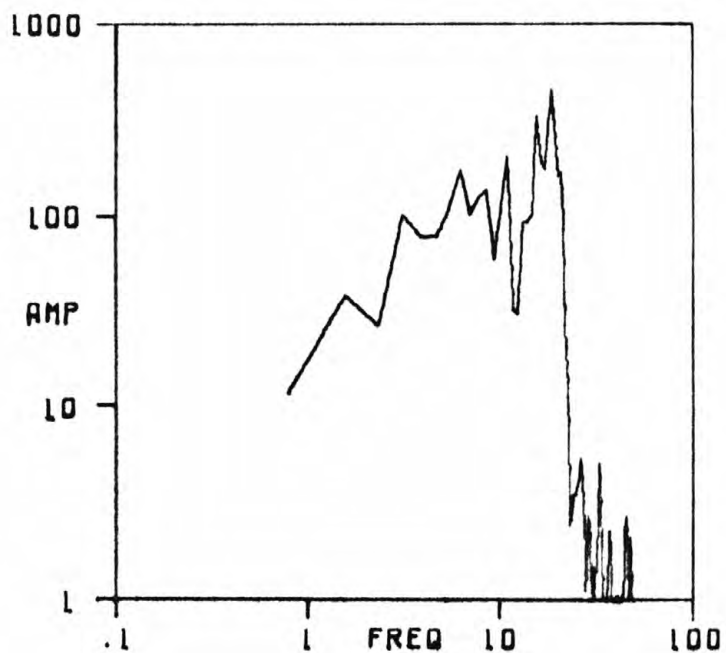
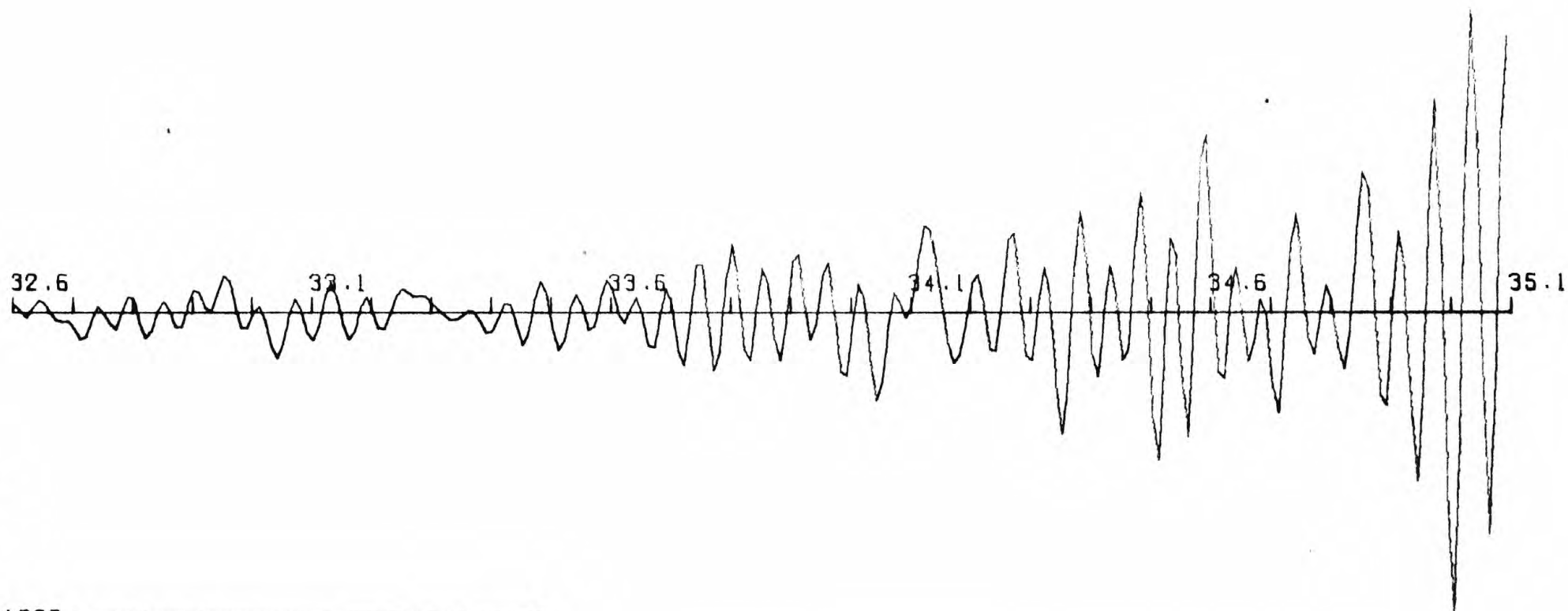
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 2

RECORDER LOCATION 116

DISTANCE FROM SHOT (KM) = 203.625

TSCALE (CM/SEC) = 10.0



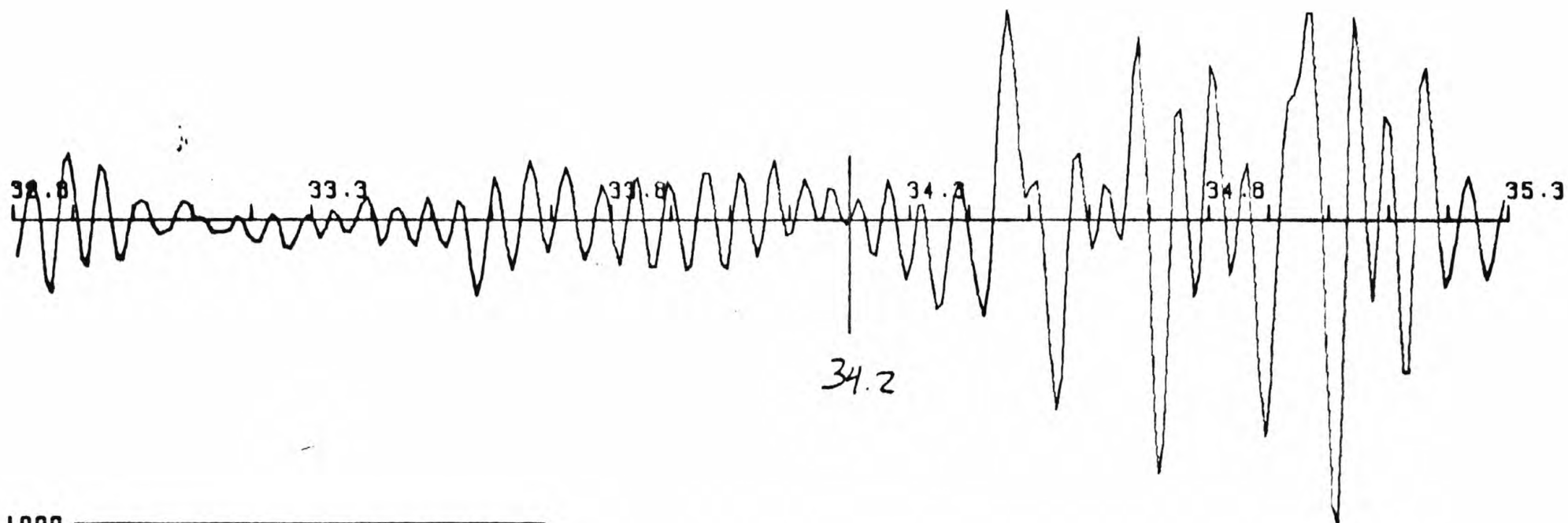
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 2

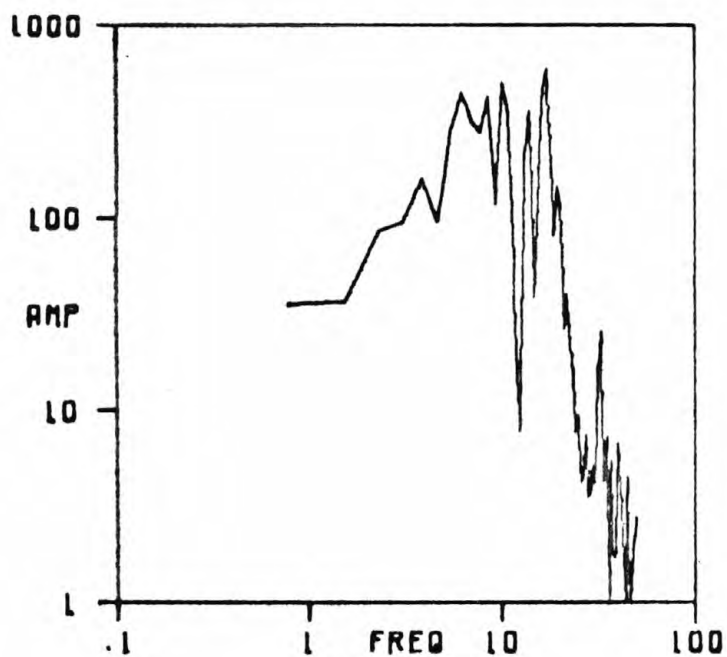
RECORDER LOCATION 114

DISTANCE FROM SHOT (KM) = 207.207

TSCALE (CM/SEC) = 10.0



230



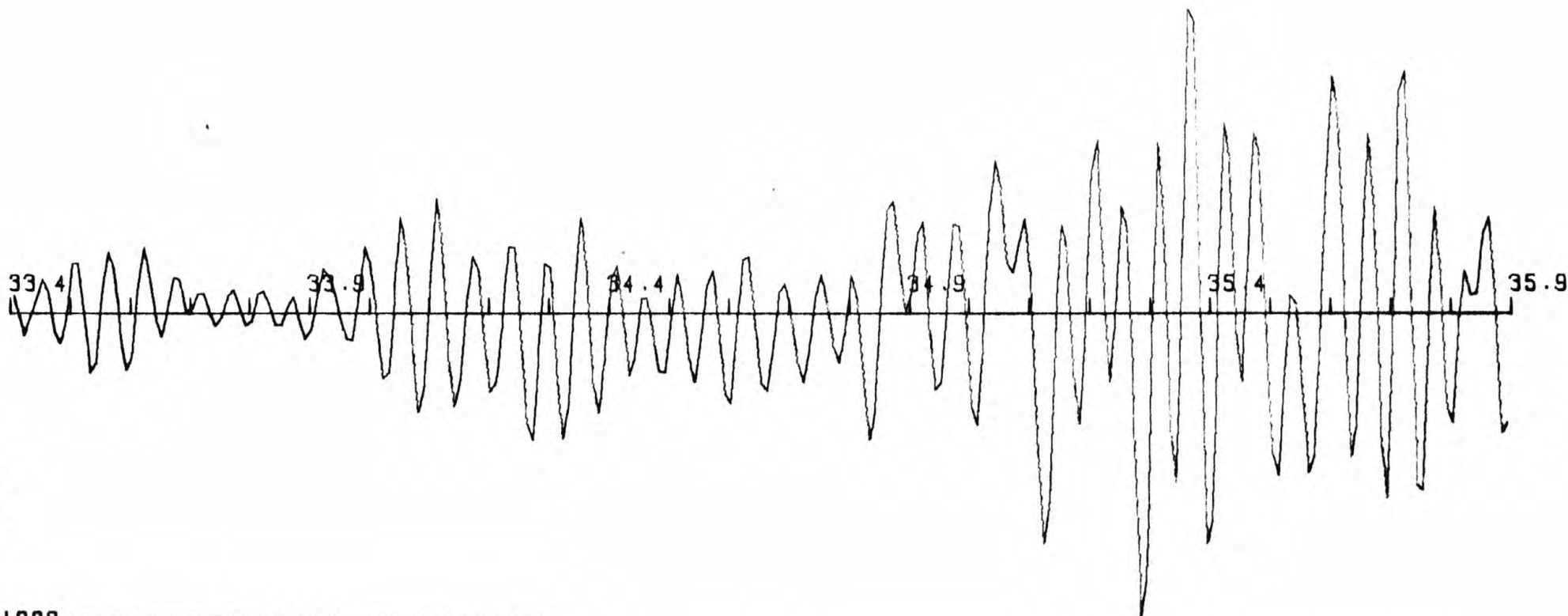
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 2

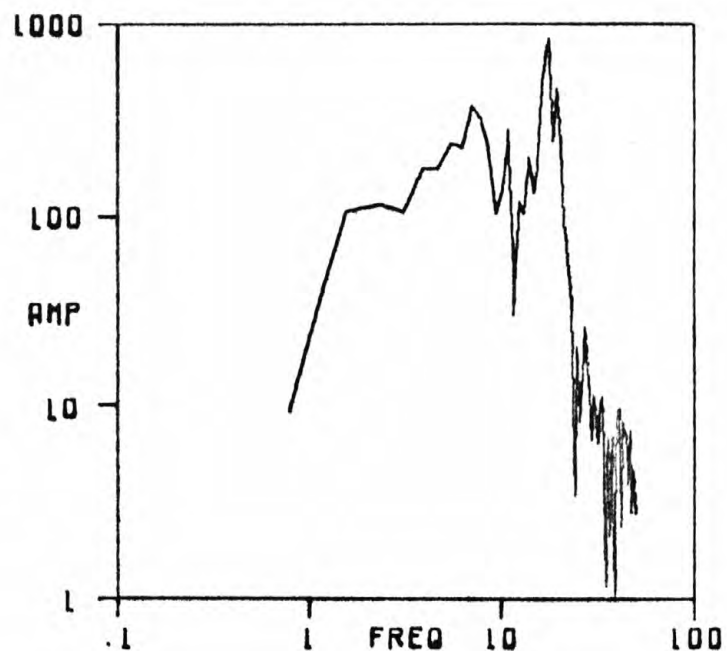
RECORDER LOCATION 113

DISTANCE FROM SHOT (KM) = 208.599

TSCALE (CM/SEC) = 10.0



231



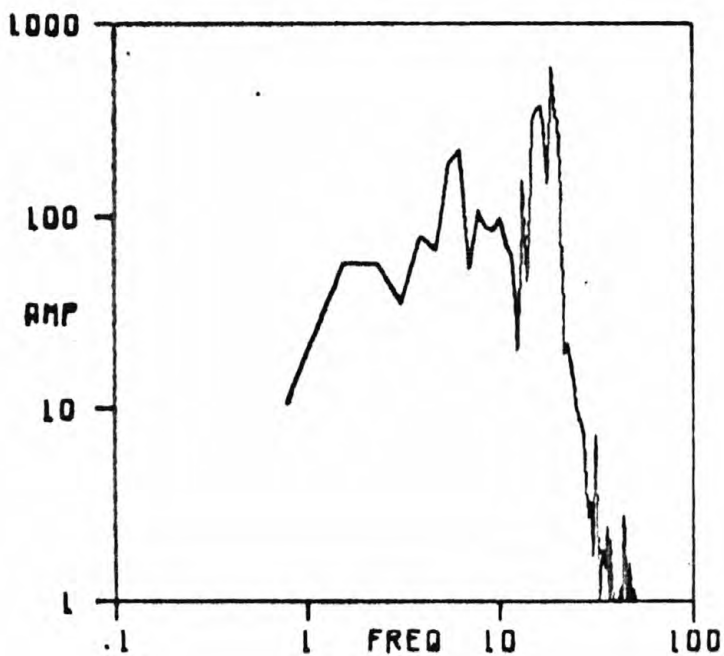
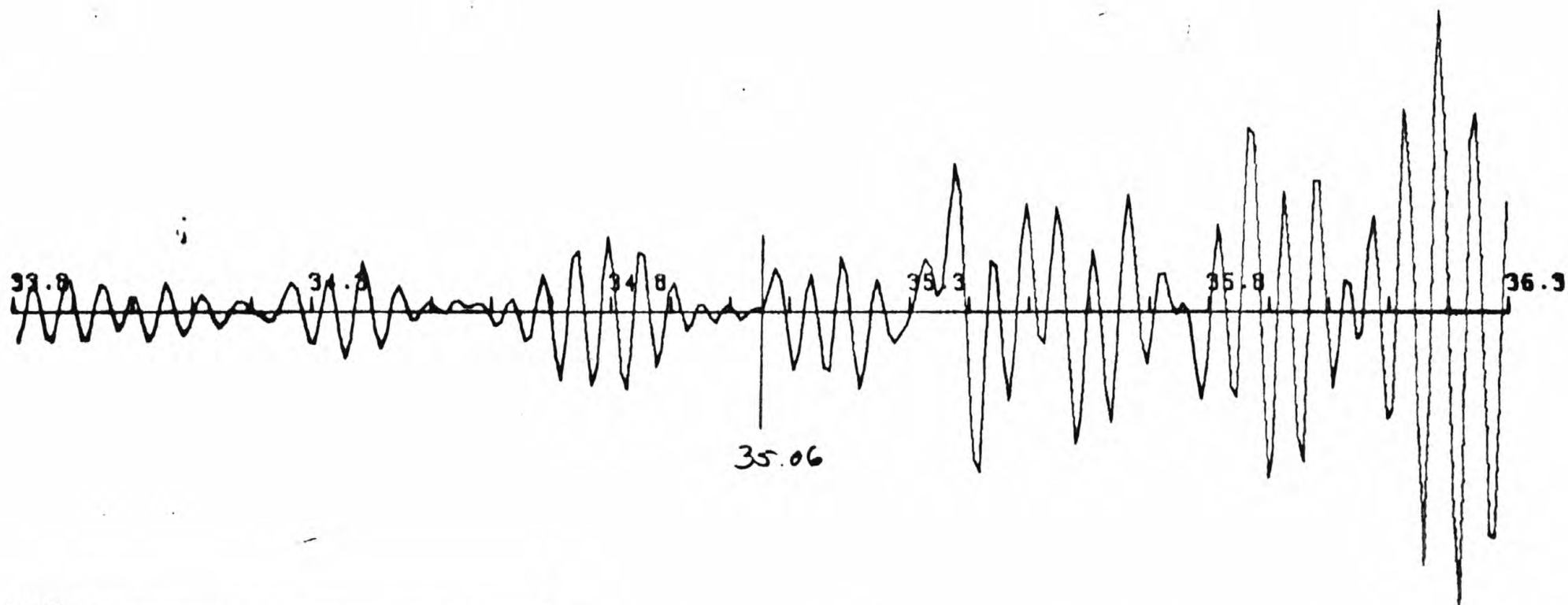
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 2

RECORDER LOCATION 111

DISTANCE FROM SHOT (KM) = 211.891

TSCALE (CM/SEC) = 10.0



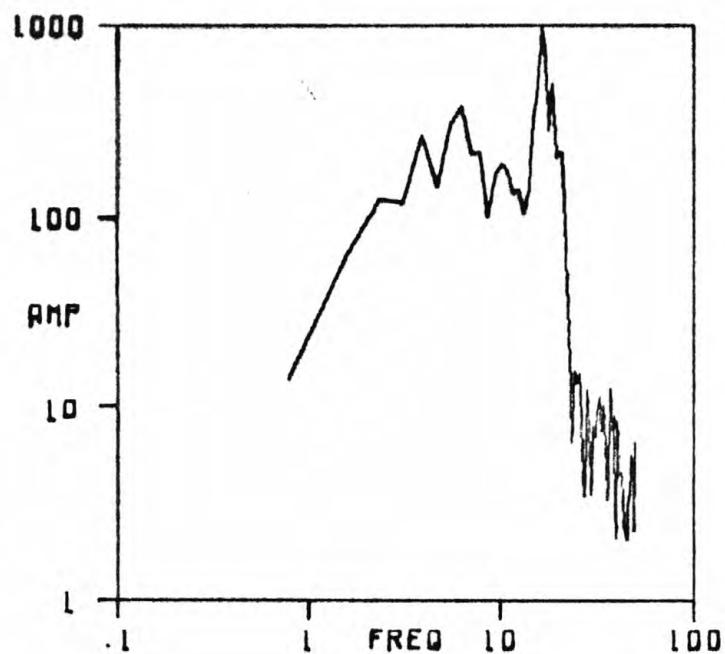
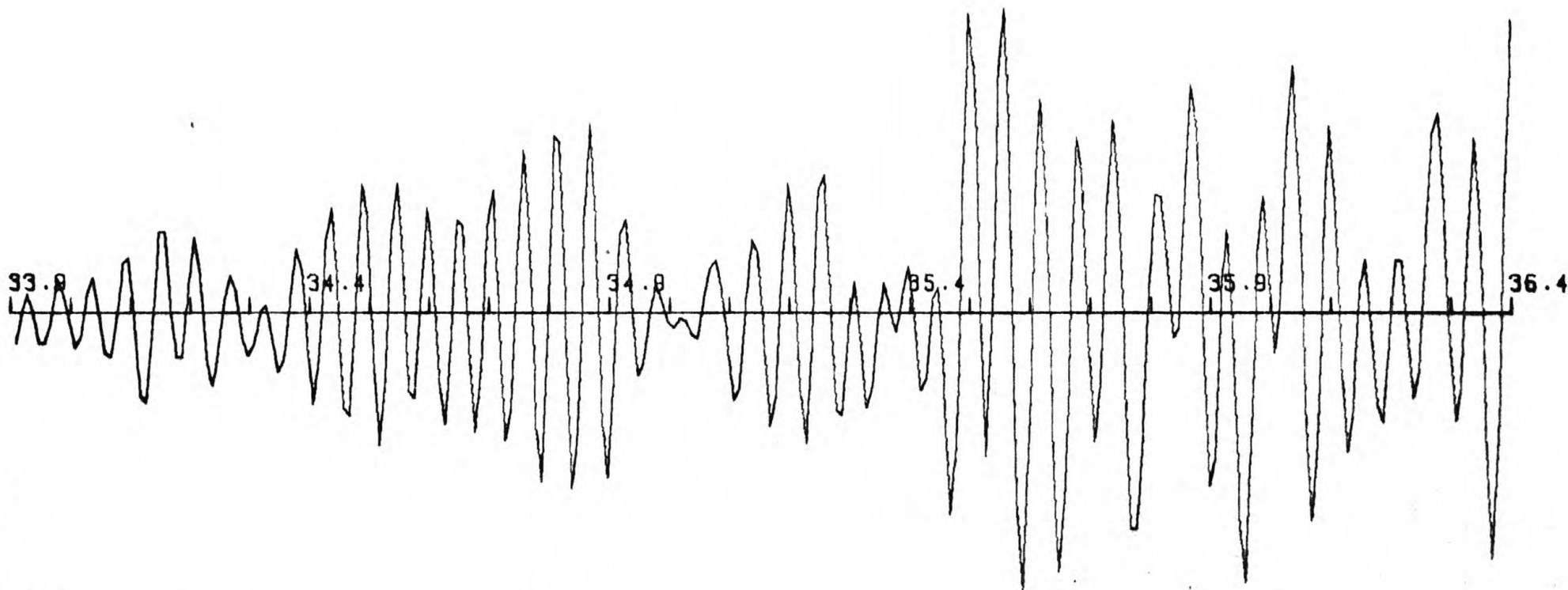
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 2

RECORDER LOCATION 109

DISTANCE FROM SHOT (KM) = 214.248

TSCALE (CM/SEC) = 10.0



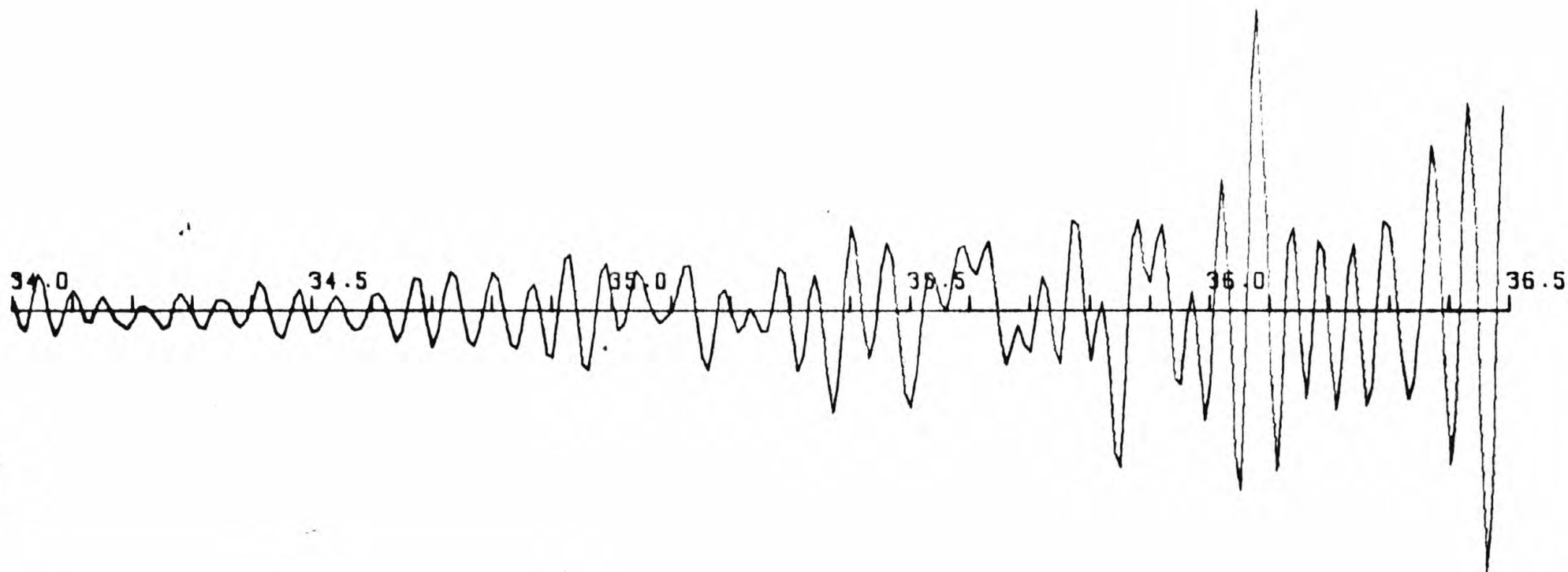
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 2

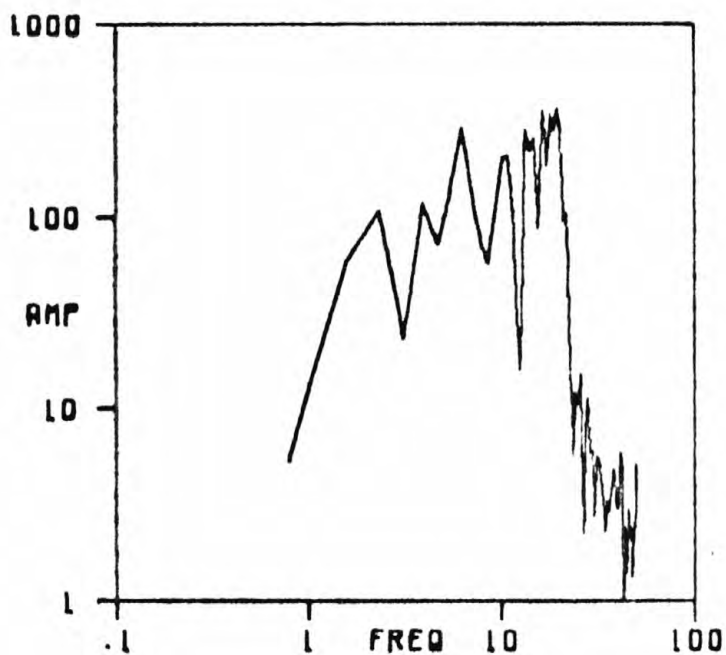
RECORDER LOCATION 108

DISTANCE FROM SHOT (KM) = 215.275

TSCALE (CM/SEC) = 10.0



234



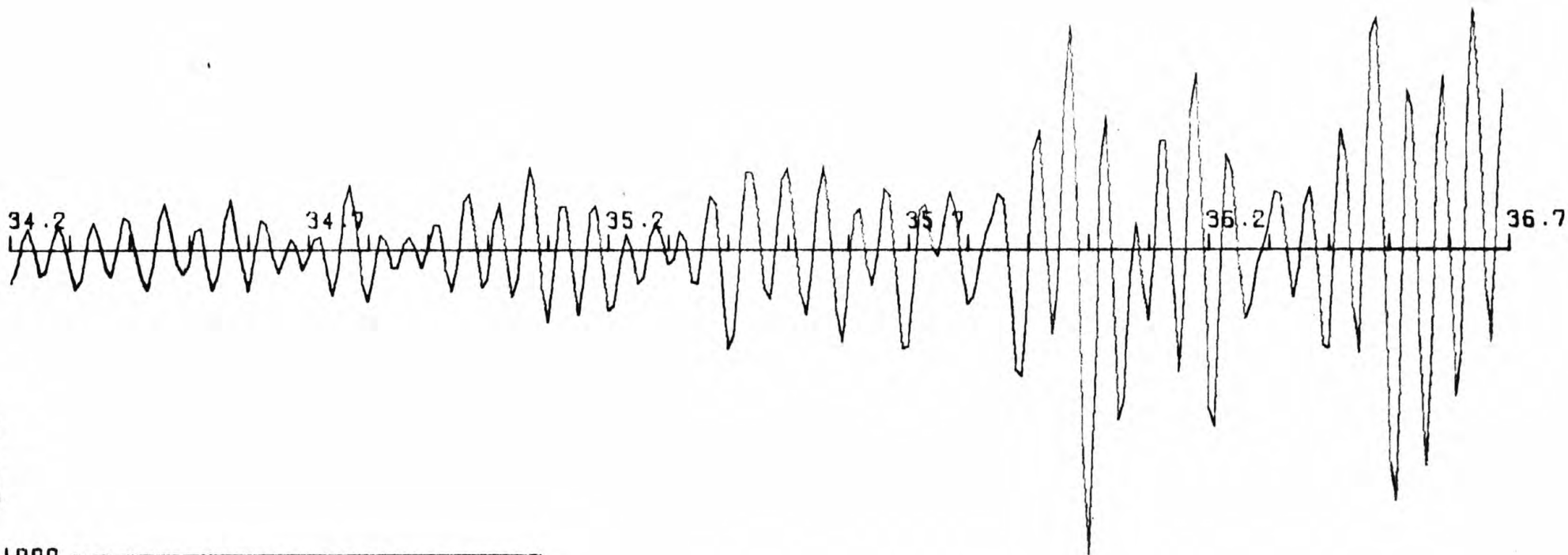
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 2

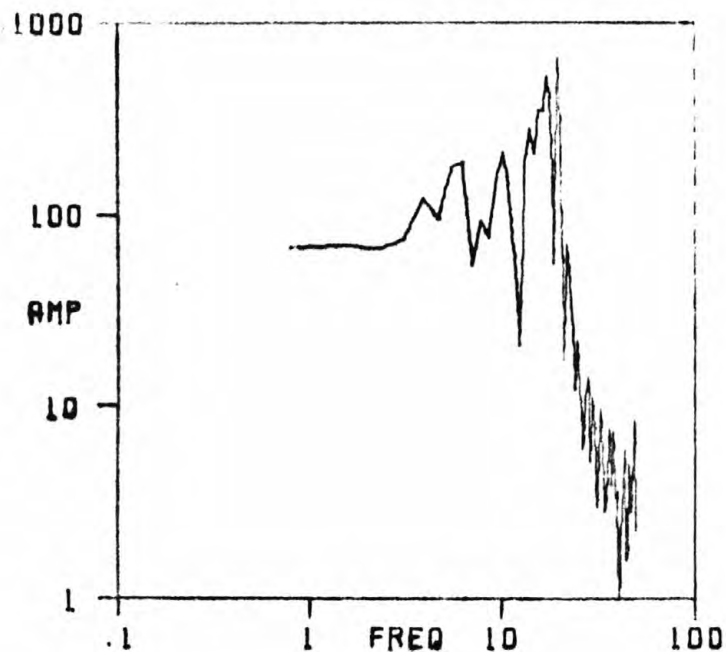
RECORDER LOCATION 107

DISTANCE FROM SHOT (KM) = 215.720

TSCALE (CM/SEC) = 10.0



235



SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 2

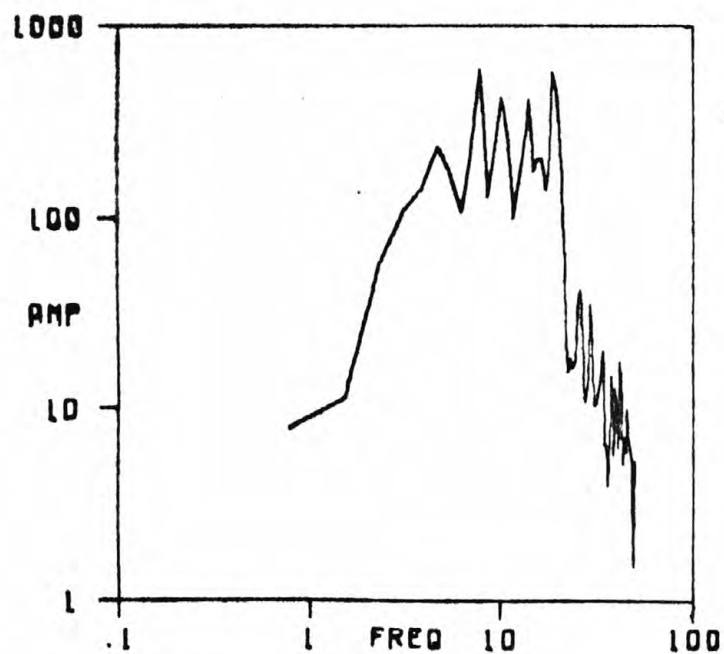
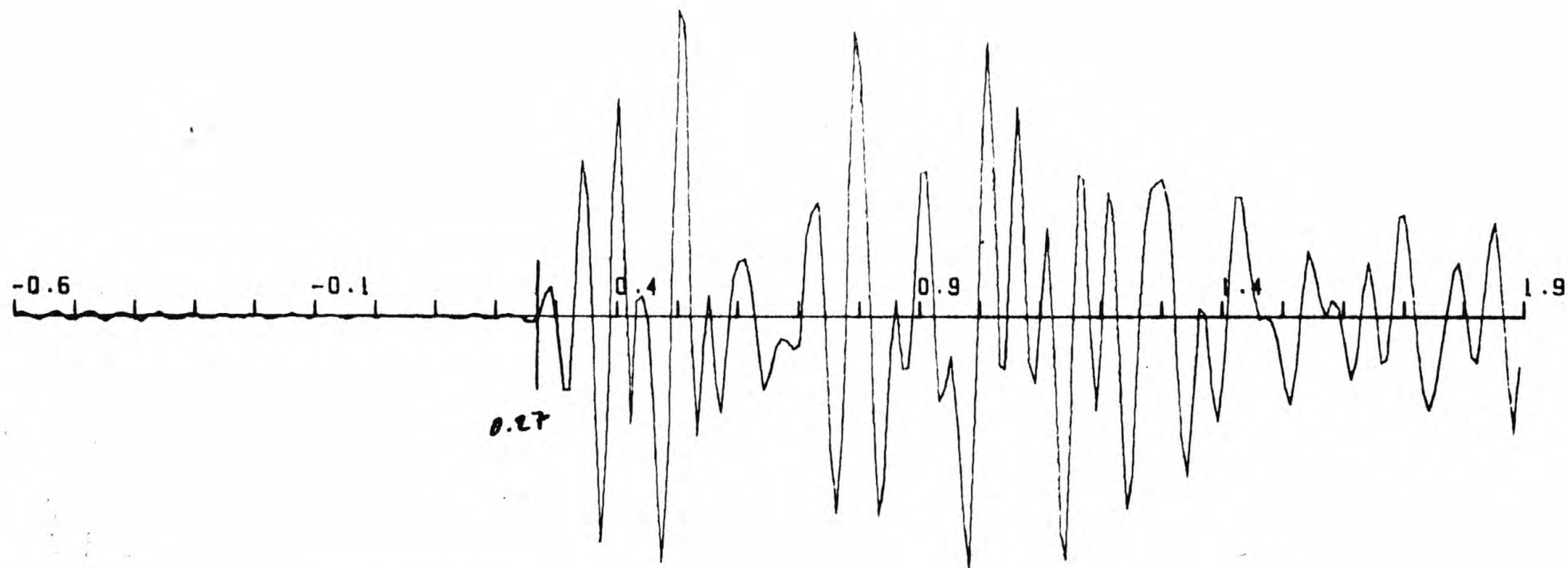
RECORDER LOCATION 104

DISTANCE FROM SHOT (KM) = 216.968

TSCALE (CM/SEC) = 10.0

First Arrivals
Southwest from Shot Point 2
(2.1 to 325.0 km)

239



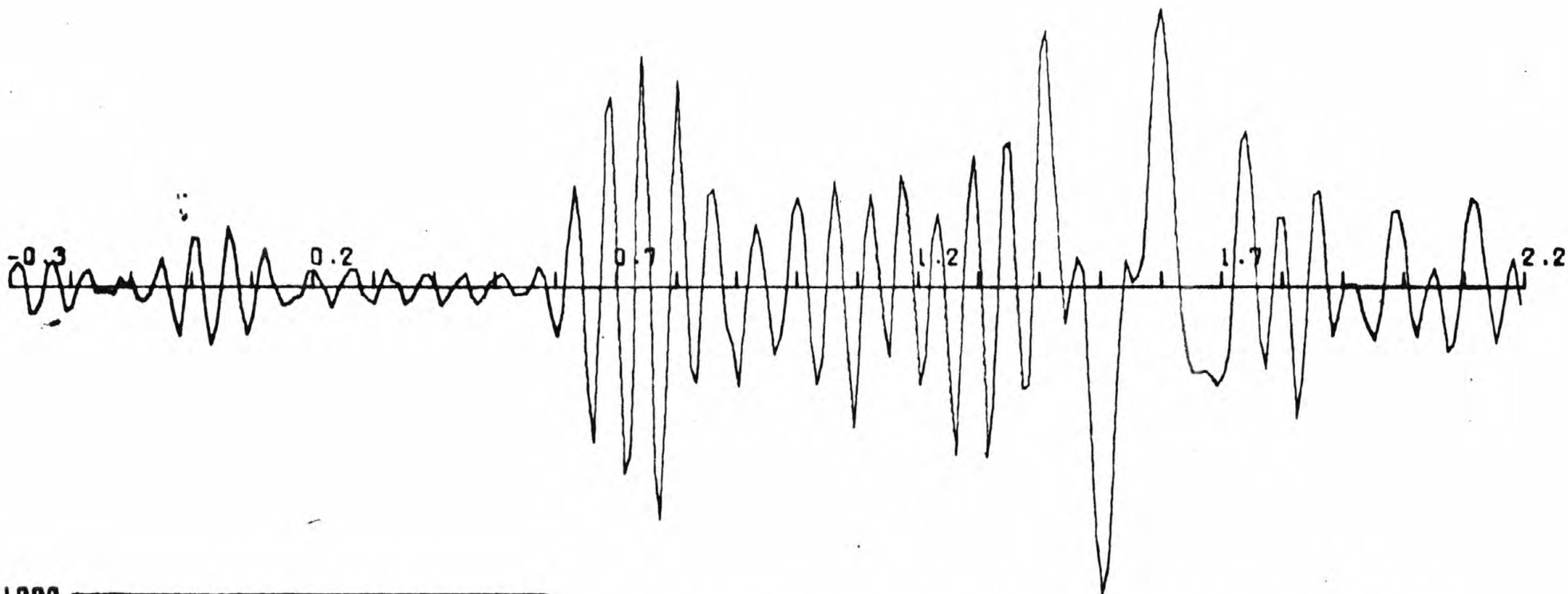
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 2

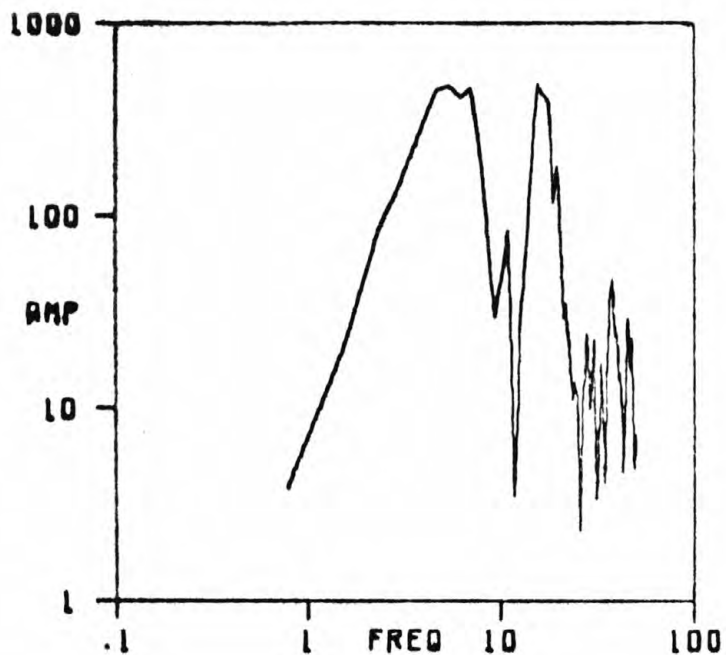
RECORDER LOCATION 300

DISTANCE FROM SHOT (KM) = -2.062

TSCALE (CM/SEC) = 10.0



240



SAUDI REFRACTION PROFILE 15.20 BP

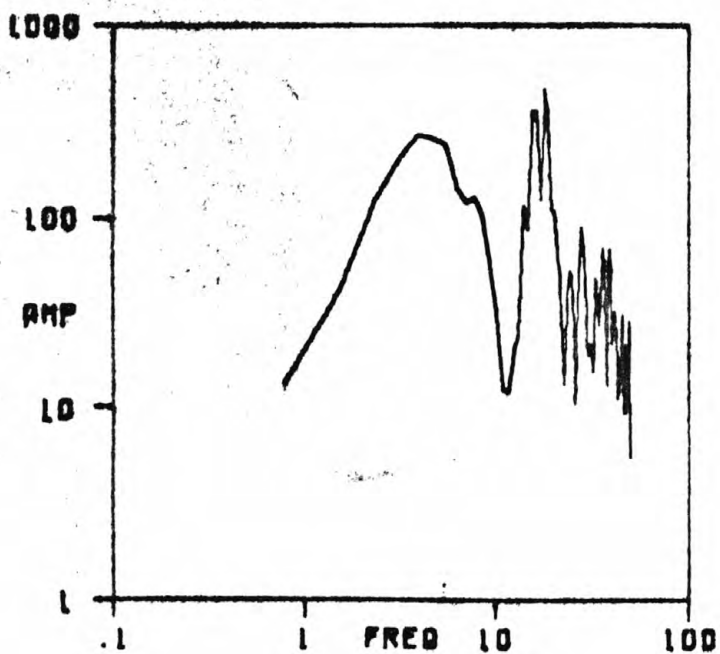
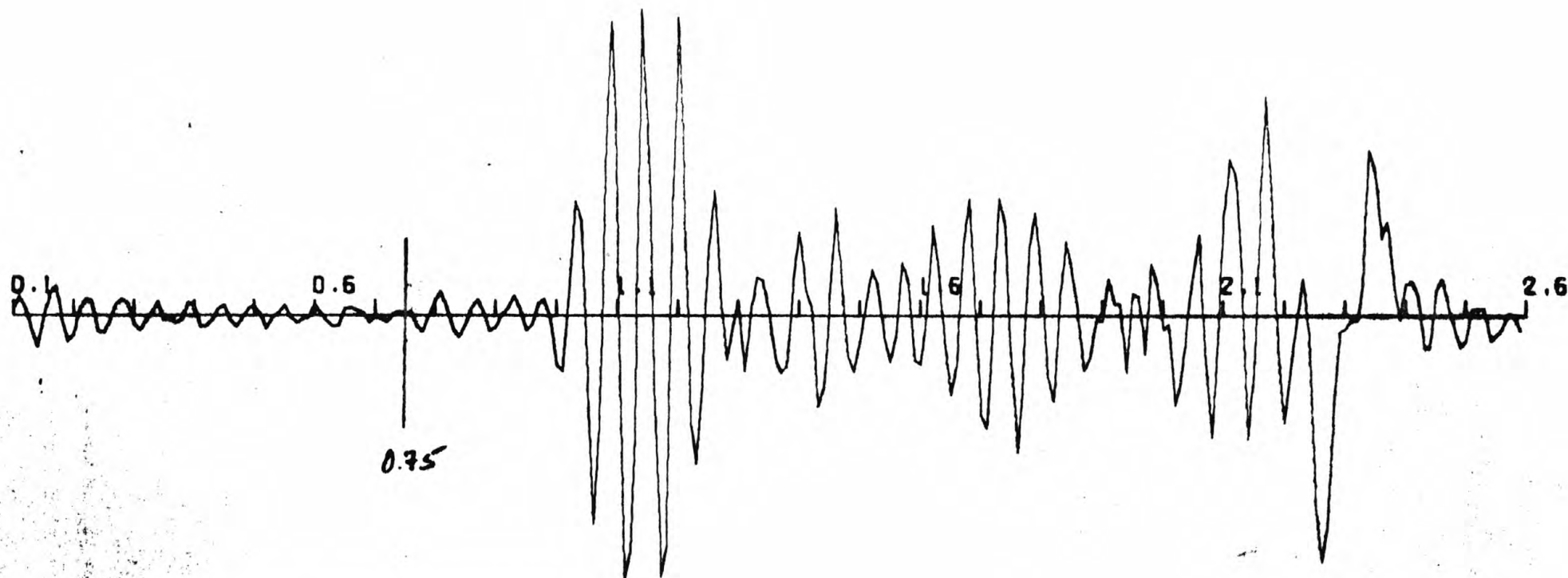
SHOT POINT 2

RECORDER LOCATION 304

DISTANCE FROM SHOT (KM) = -3.986

TSCALE (CM/SEC) = 10.0

241



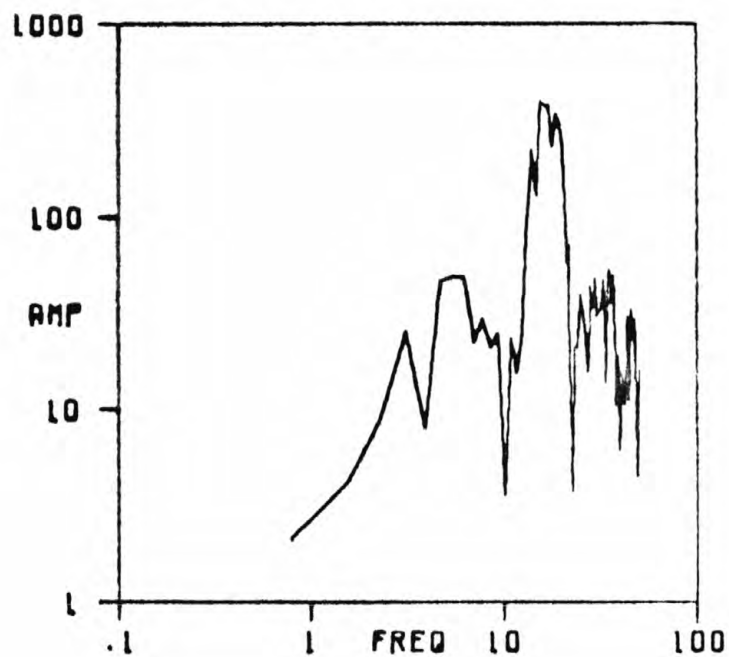
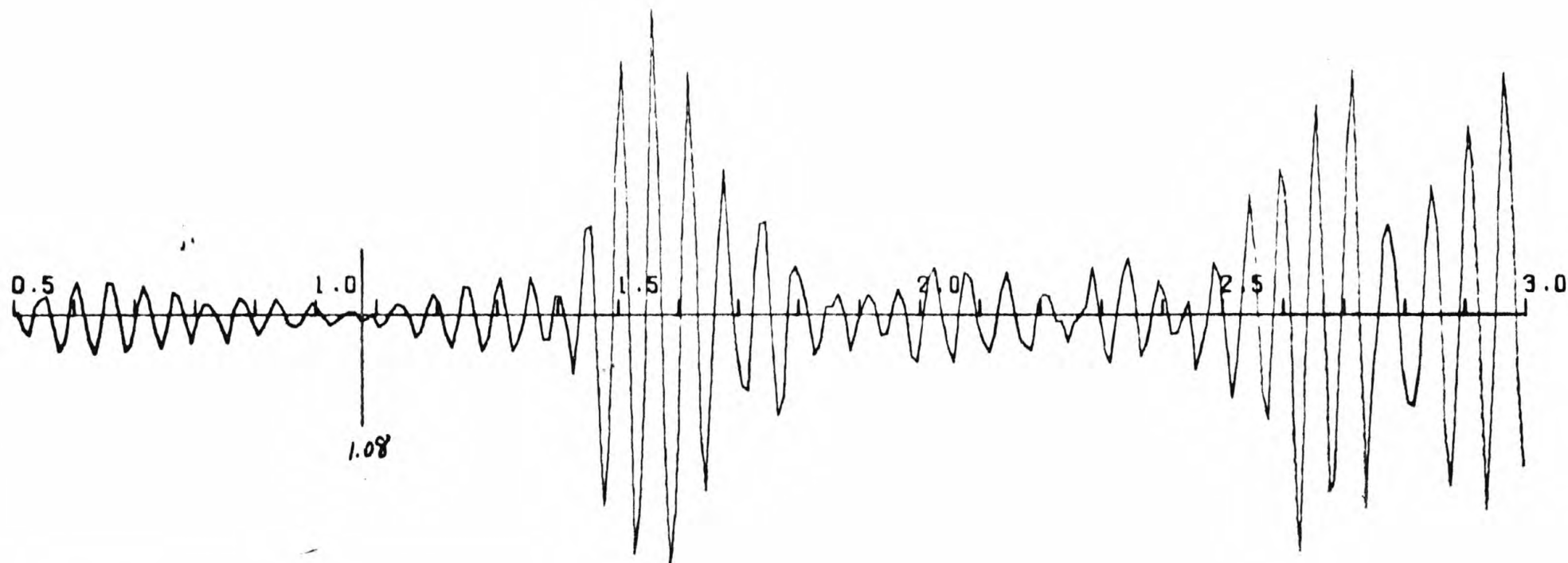
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 2

RECORDER LOCATION 305

DISTANCE FROM SHOT (KM) = -6.135

TIME SCALE (CM/SEC) = 10.0



SAUDI REFRACTION PROFILE 15.20 BP

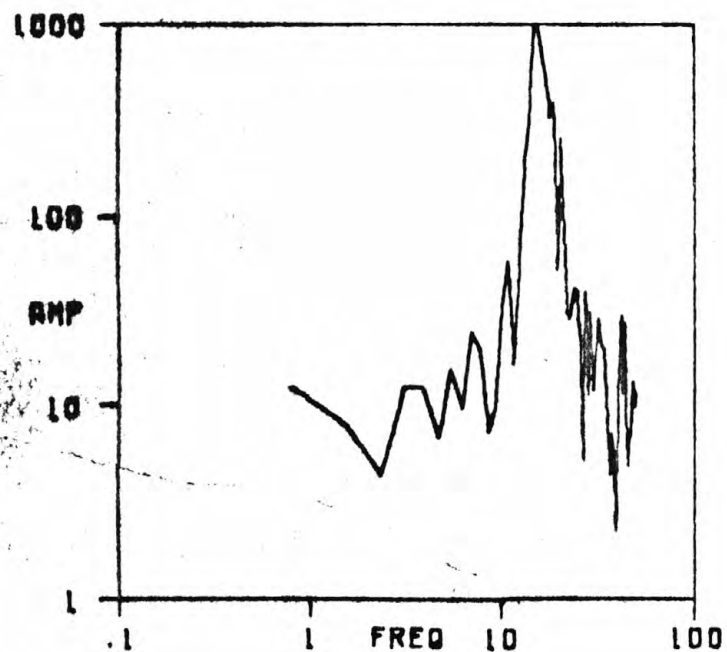
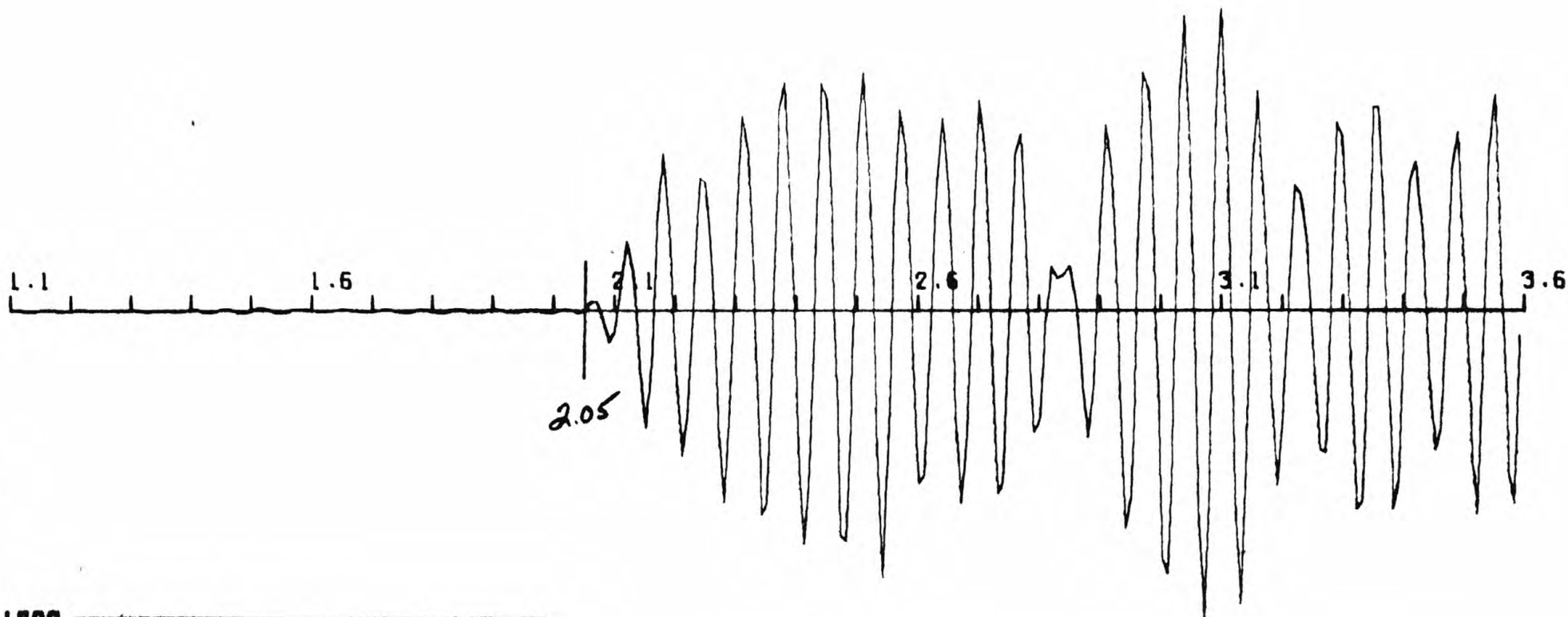
SHOT POINT 2

RECORDER LOCATION 307

DISTANCE FROM SHOT (KM) = -8.680

TSCALE (CM/SEC) = 10.0

243



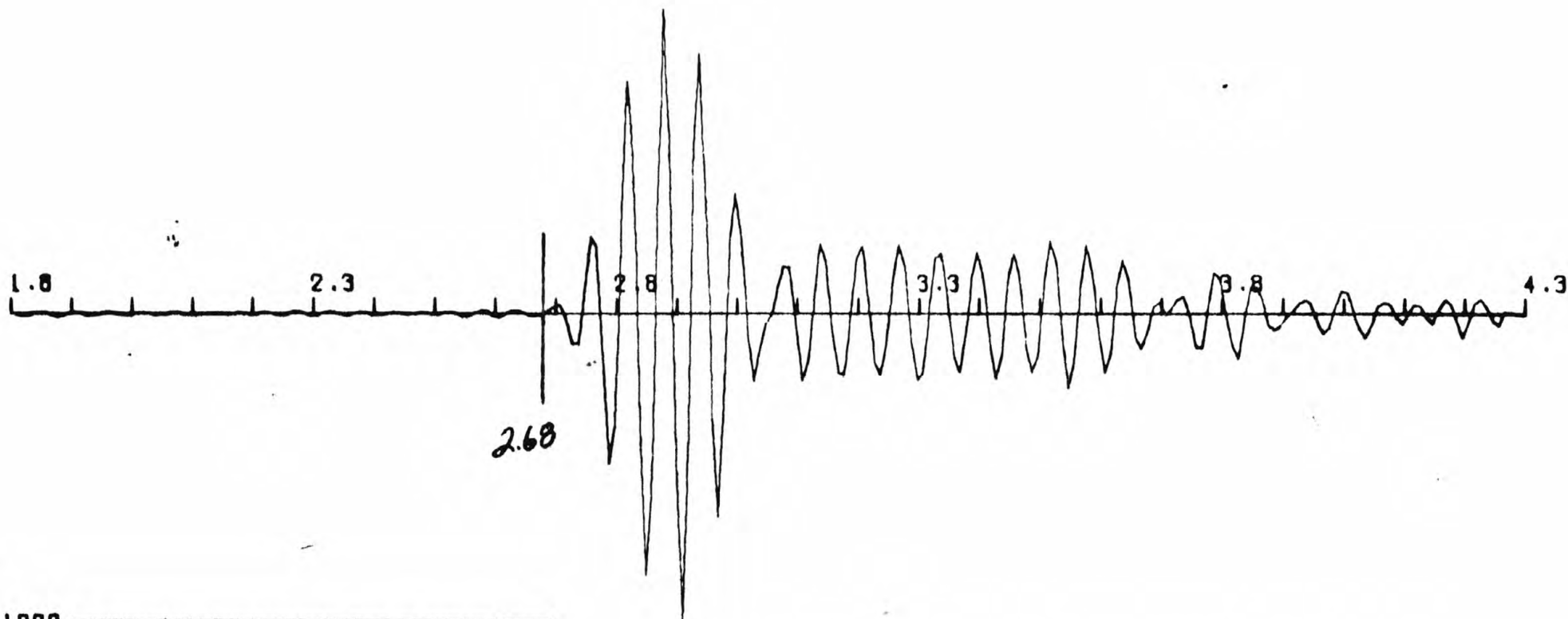
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 2

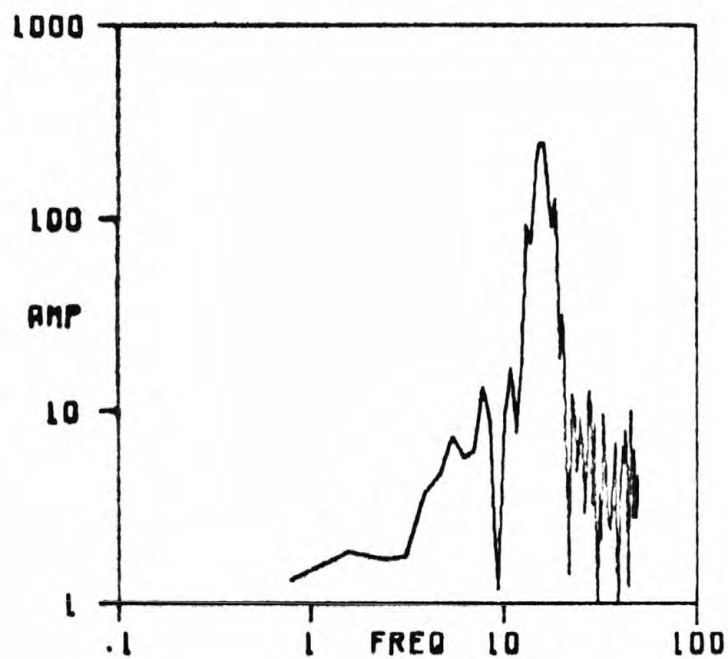
RECORDER LOCATION 308

DISTANCE FROM SHOT (KM) = -12.498

TSCALE (CM/SEC) = 10.0



244



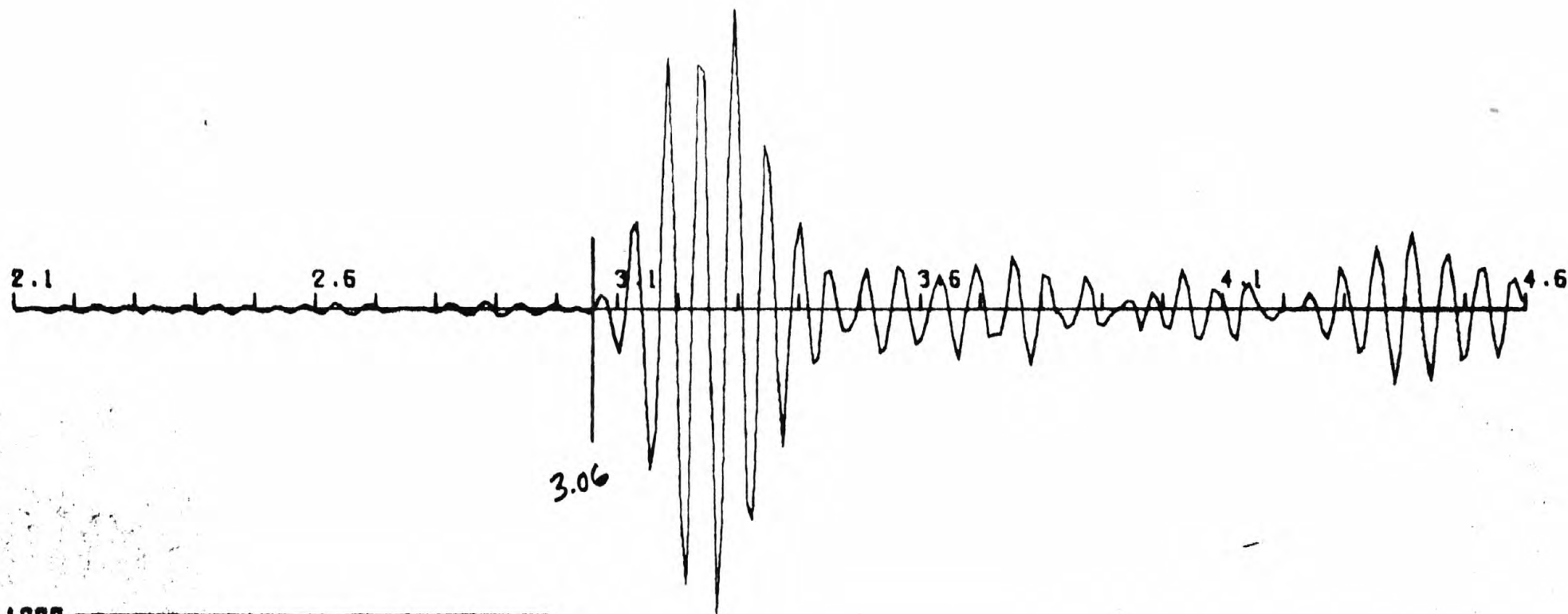
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 2

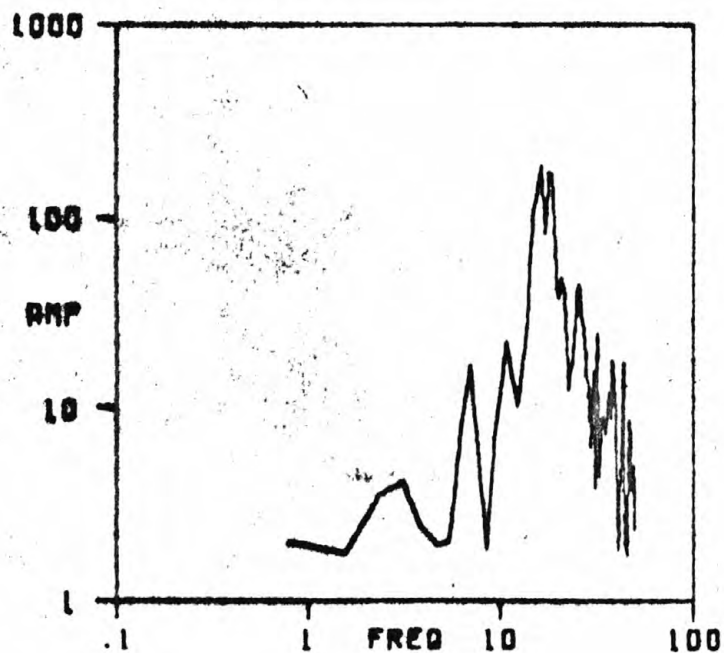
RECORDER LOCATION 310

DISTANCE FROM SHOT (KM) = -16.372

TSCALE (CM/SEC) = 10.0



245



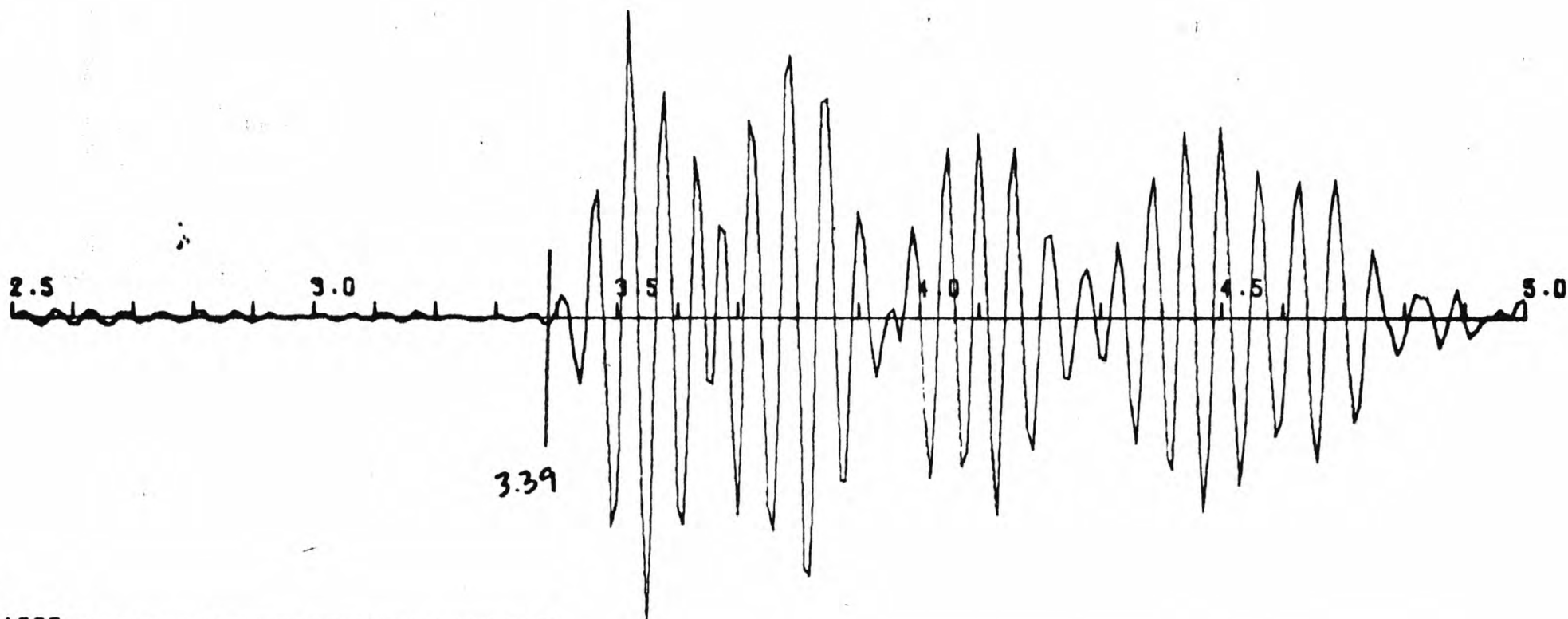
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 2

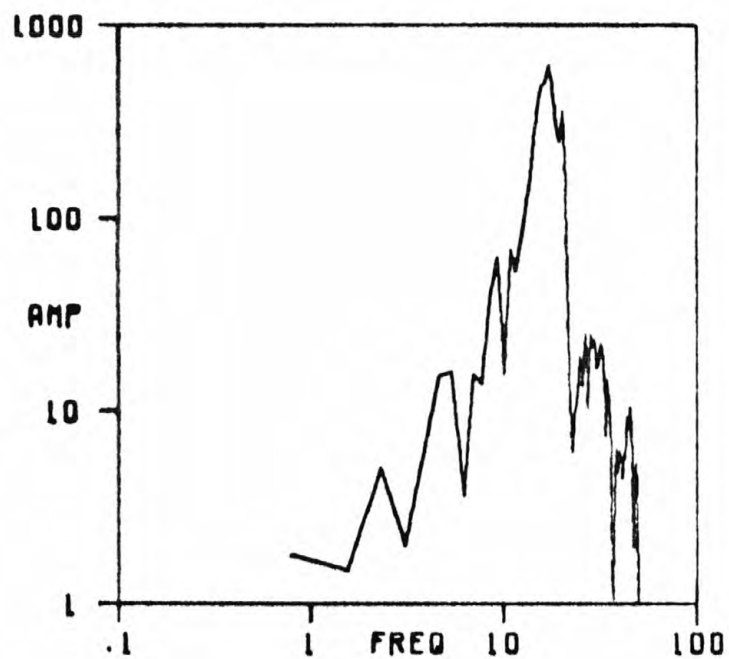
RECORDER LOCATION 311

DISTANCE FROM SHOT (KM) = -18.448

TS SCALE (CM/SEC) = 10.0



246



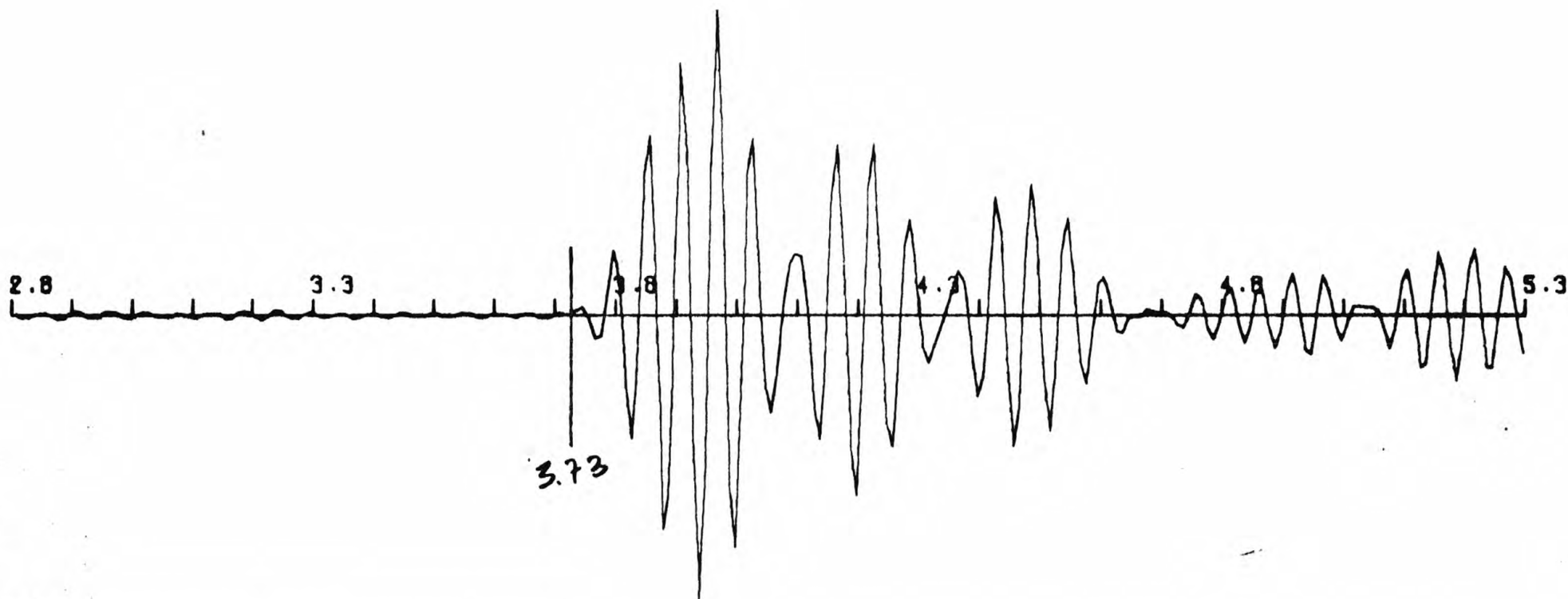
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 2

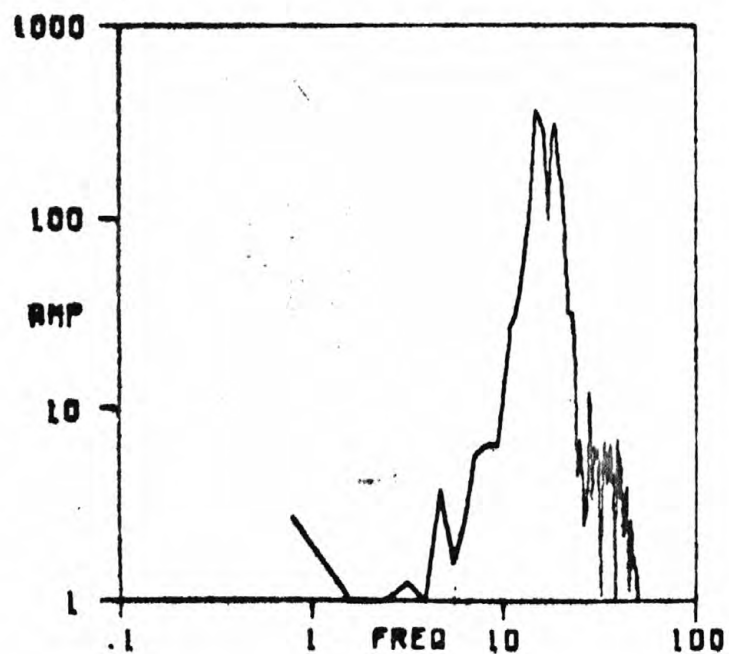
RECORDER LOCATION 312

DISTANCE FROM SHOT (KM) = -20.520

TSCALE (CM/SEC) = 10.0



247



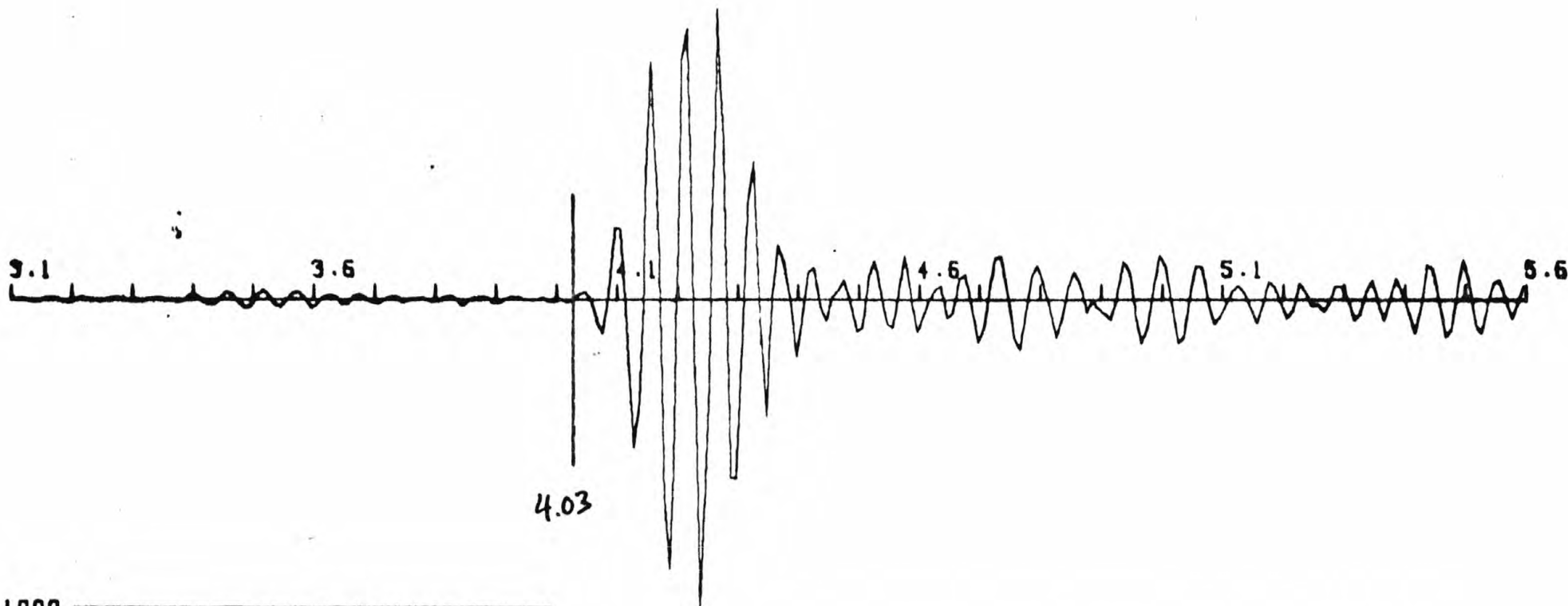
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 2

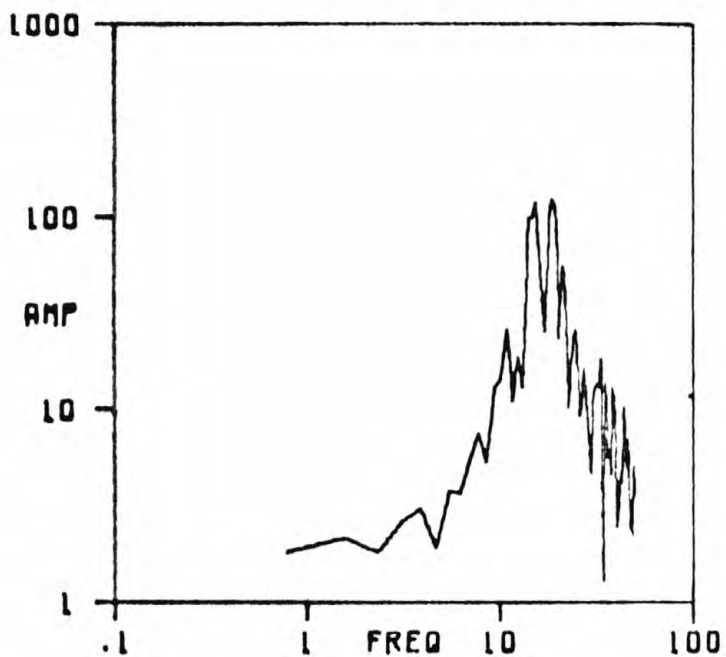
RECORDER LOCATION 919

DISTANCE FROM SHOT (KM) = -22.550

TSCALE (CM/SEC) = 10.0



245



SAUDI REFRACTION PROFILE 15.20 BP

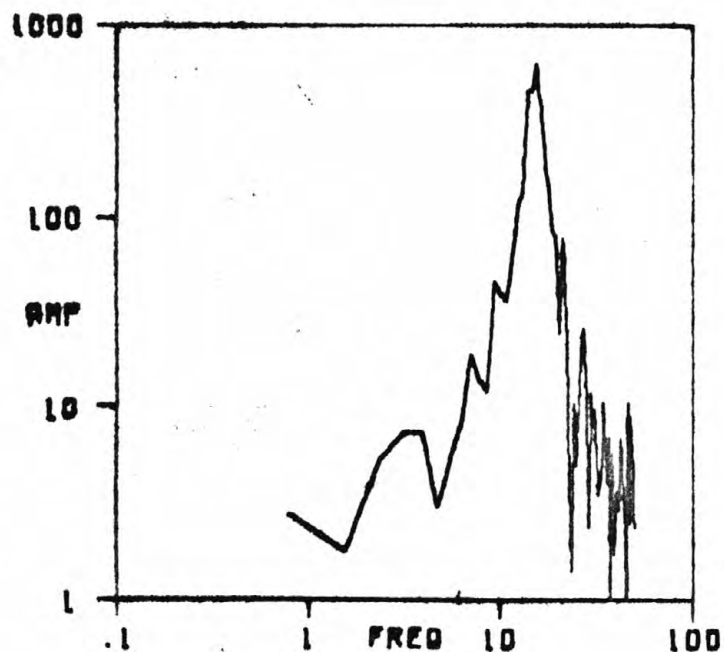
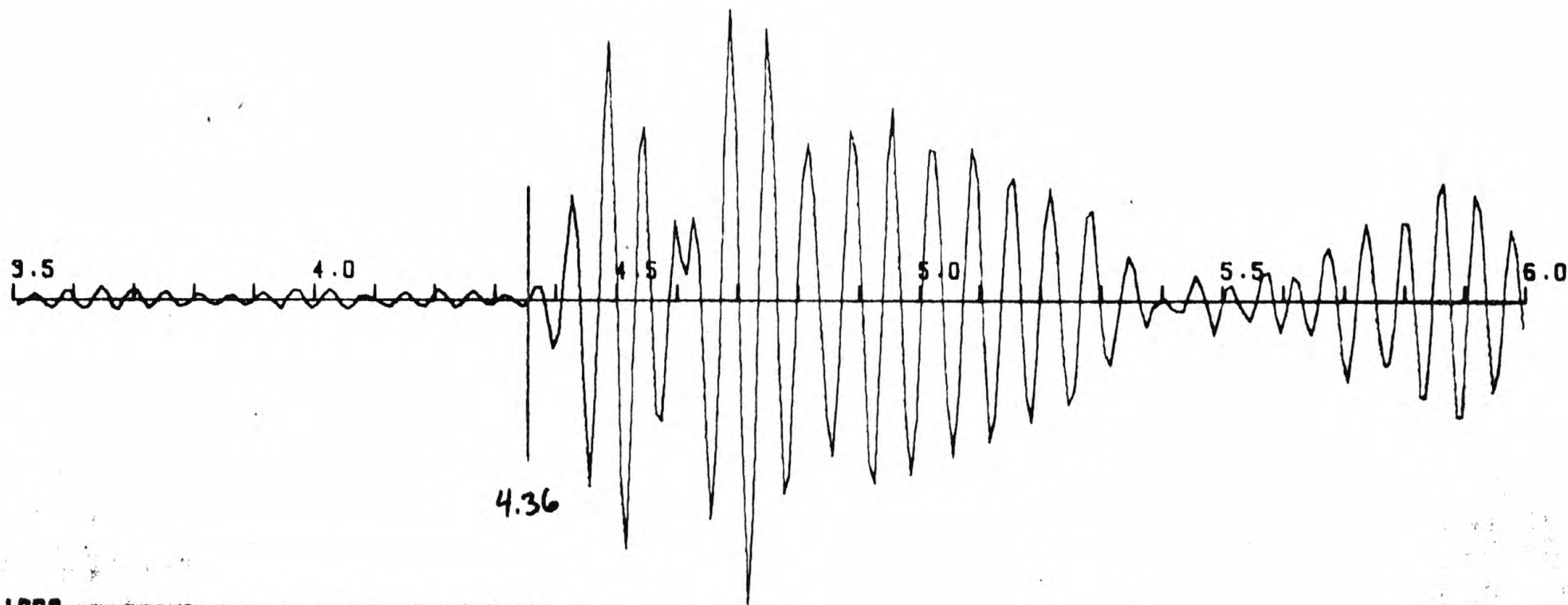
SHOT POINT 2

RECORDER LOCATION 314

DISTANCE FROM SHOT (KM) = -24.527

TSCALE (CM/SEC) = 10.0

249



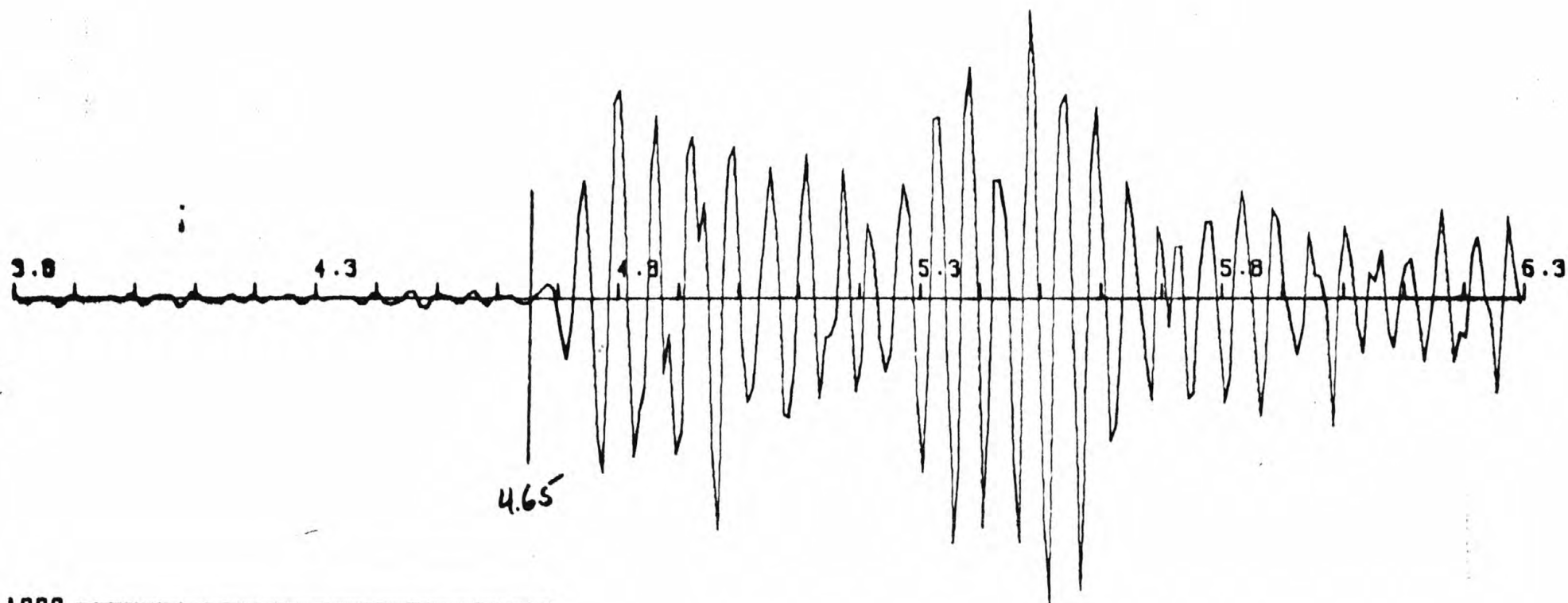
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 2

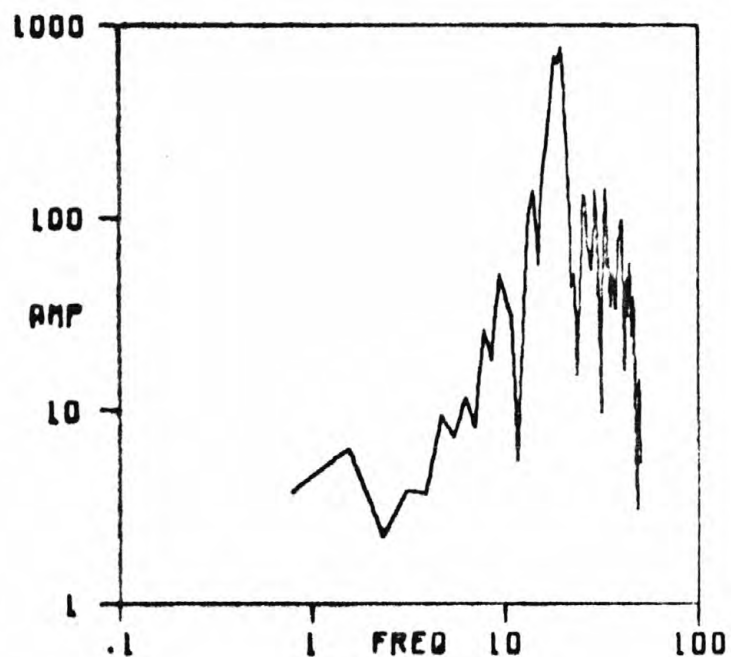
RECORDER LOCATION 315

DISTANCE FROM SHOT (KM) = -26.566

TS SCALE (CM/SEC) = 10.0



250



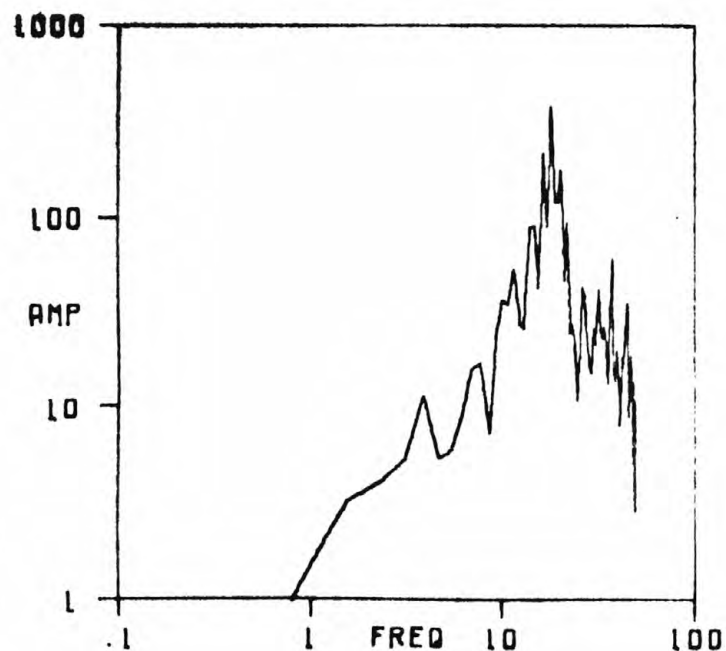
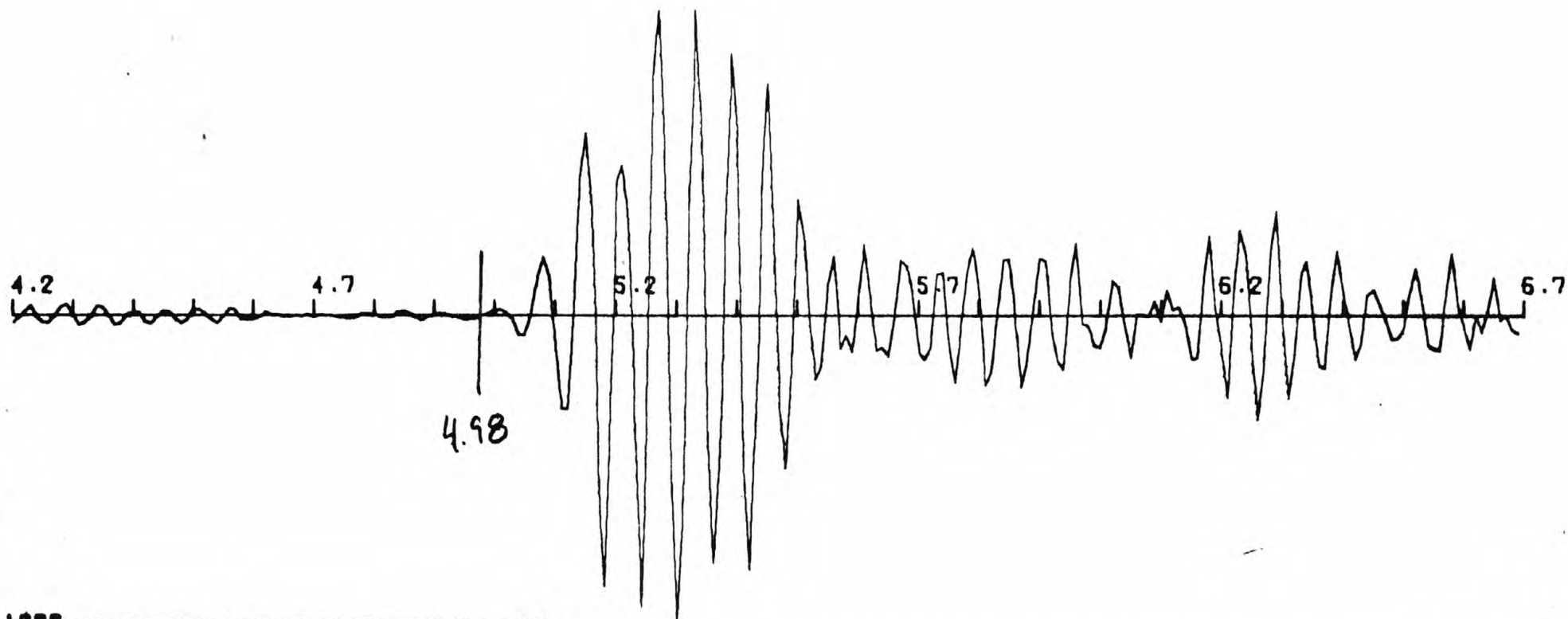
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 2

RECORDER LOCATION 316

DISTANCE FROM SHOT (KM) = -20.649

TSCALE (CM/SEC) = 10.0



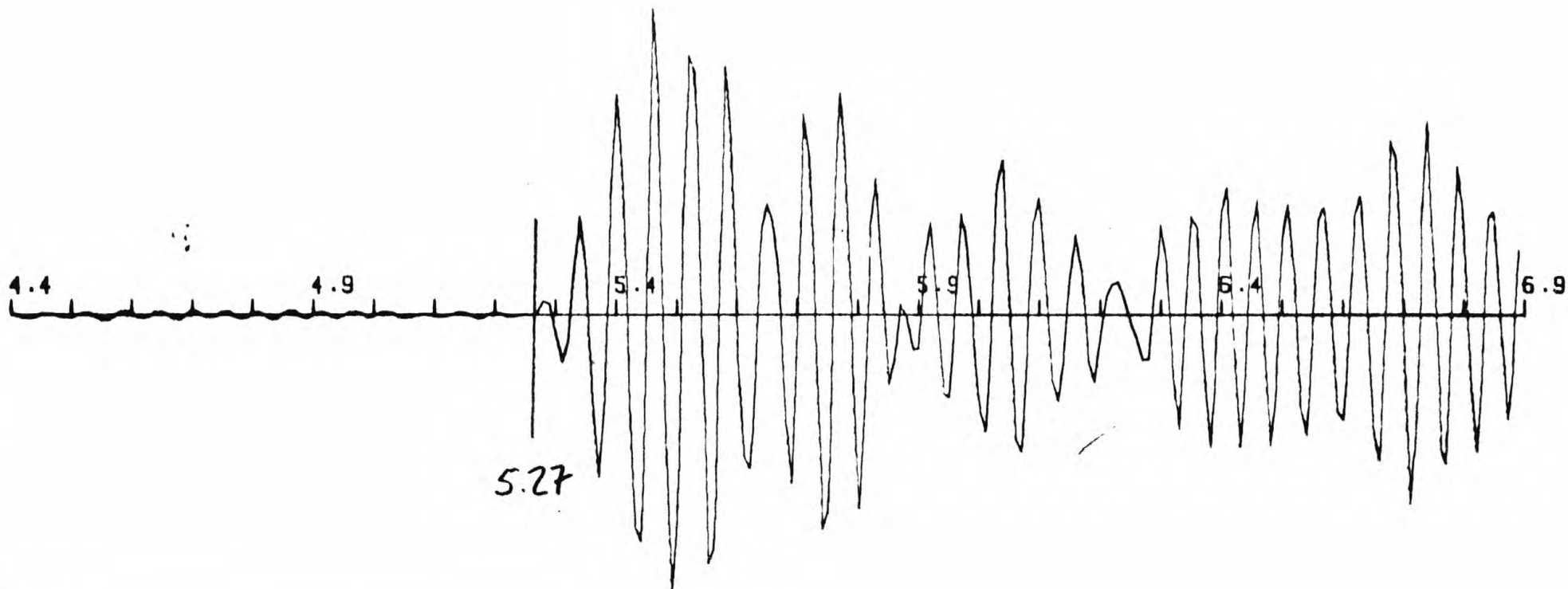
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 2

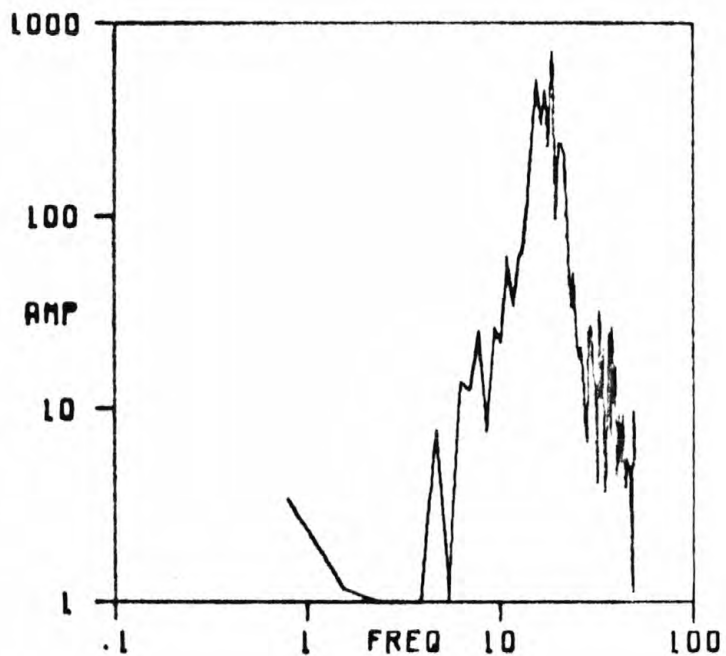
RECORDER LOCATION 317

DISTANCE FROM SHOT (KM) = -30.673

TSCALE (CM/SEC) = 10.0



252



SAUDI REFRACTION PROFILE 15.20 BP

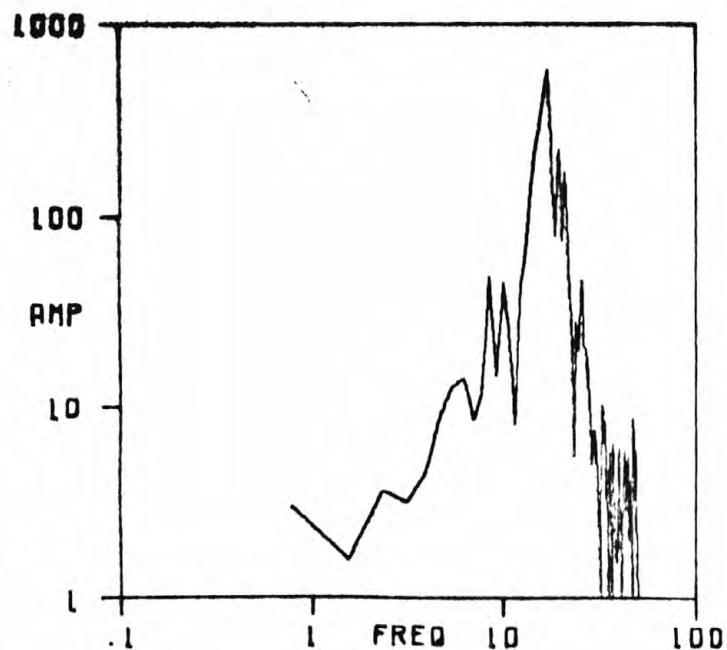
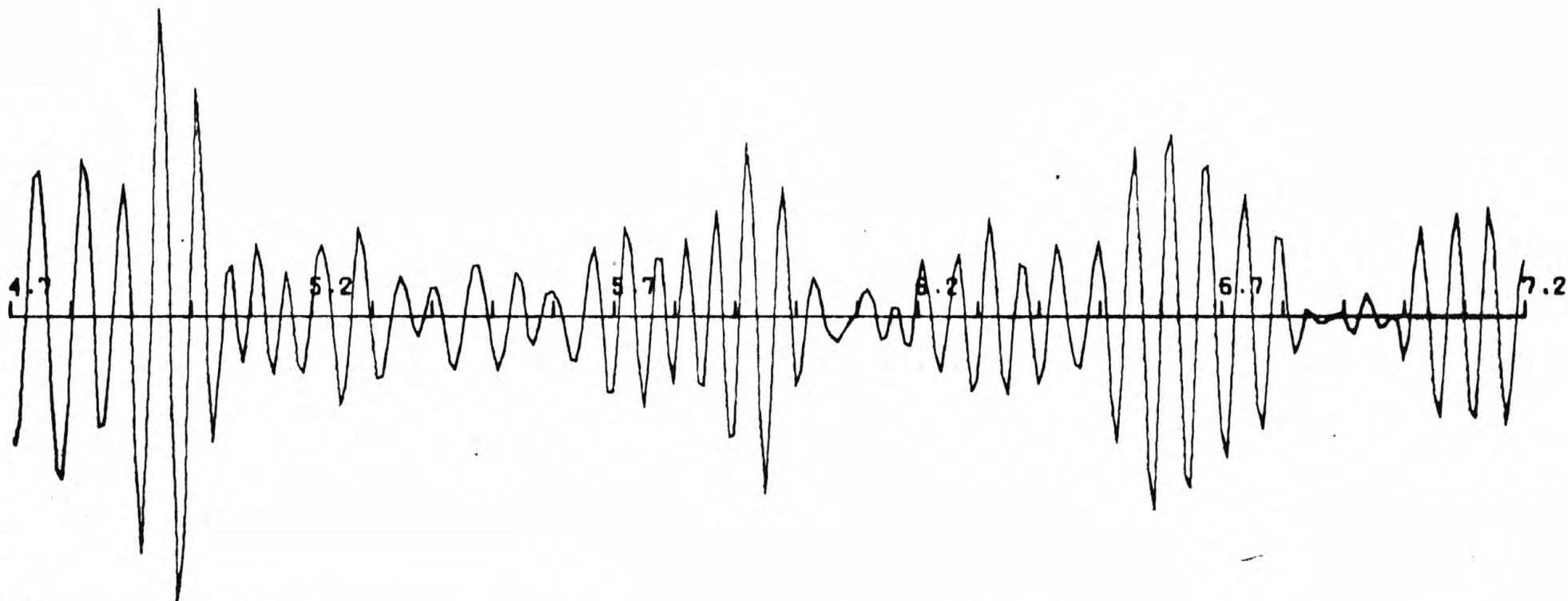
SHOT POINT 2

RECORDER LOCATION 318

DISTANCE FROM SHOT (KM) = -32.173

TSCALE (CM/SEC) = 10.0

253



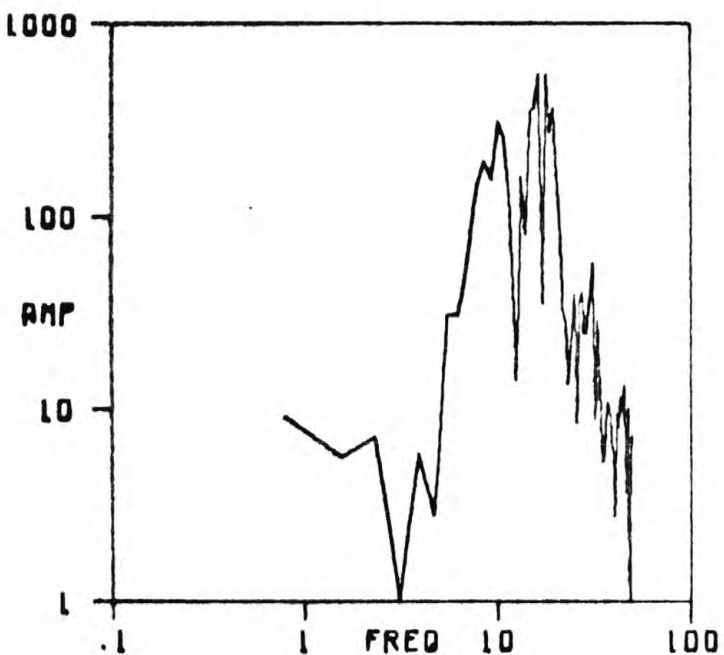
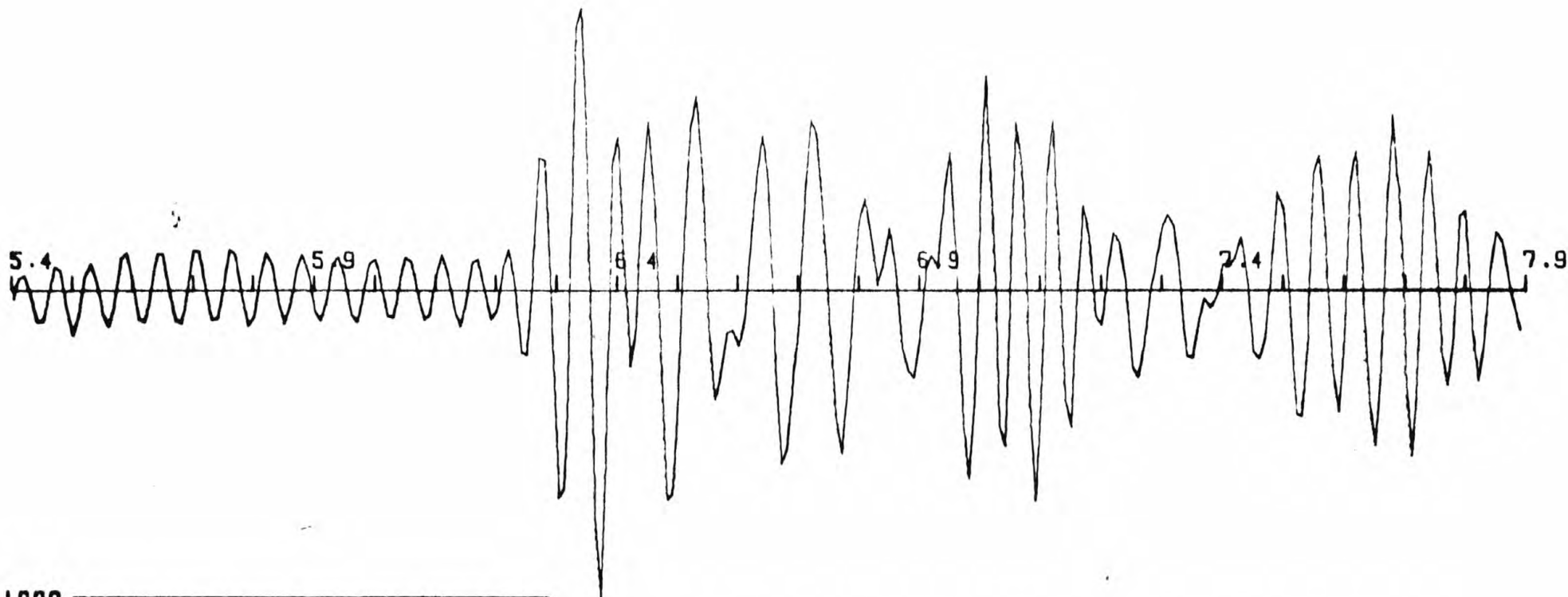
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 2

RECORDER LOCATION 319

DISTANCE FROM SHOT (KM) = -34.198

TSCALE (CM/SEC) = 10.0



SAUDI REFRACTION PROFILE 15.20 BP

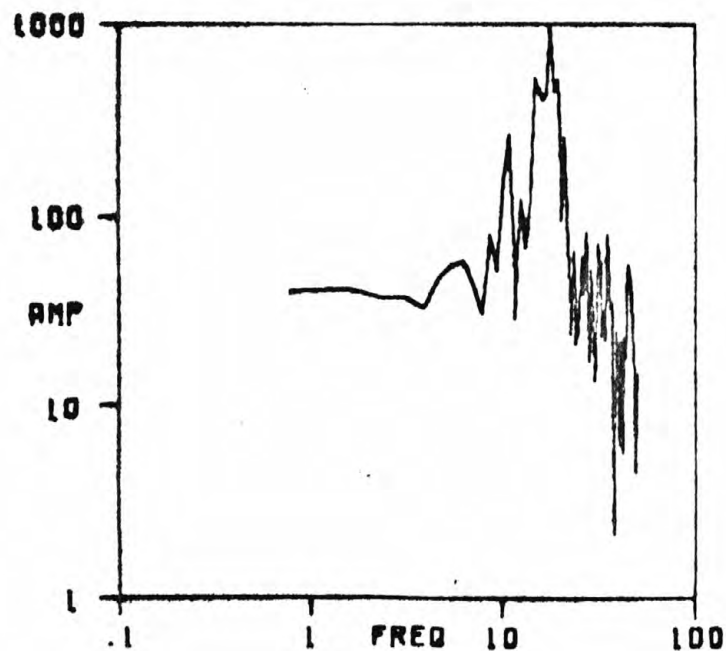
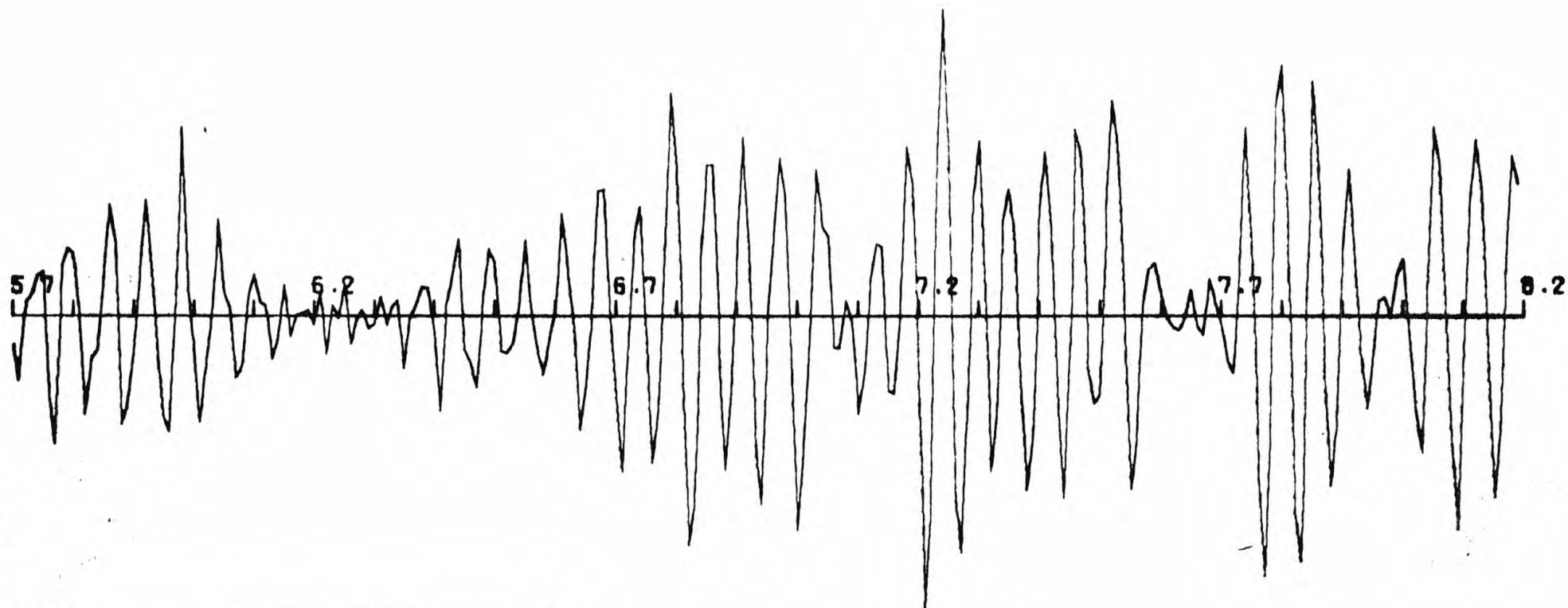
SHOT POINT 2

RECORDER LOCATION 321

DISTANCE FROM SHOT (KM) = -38.180

TSCALE (CM/SEC) = 10.0

255



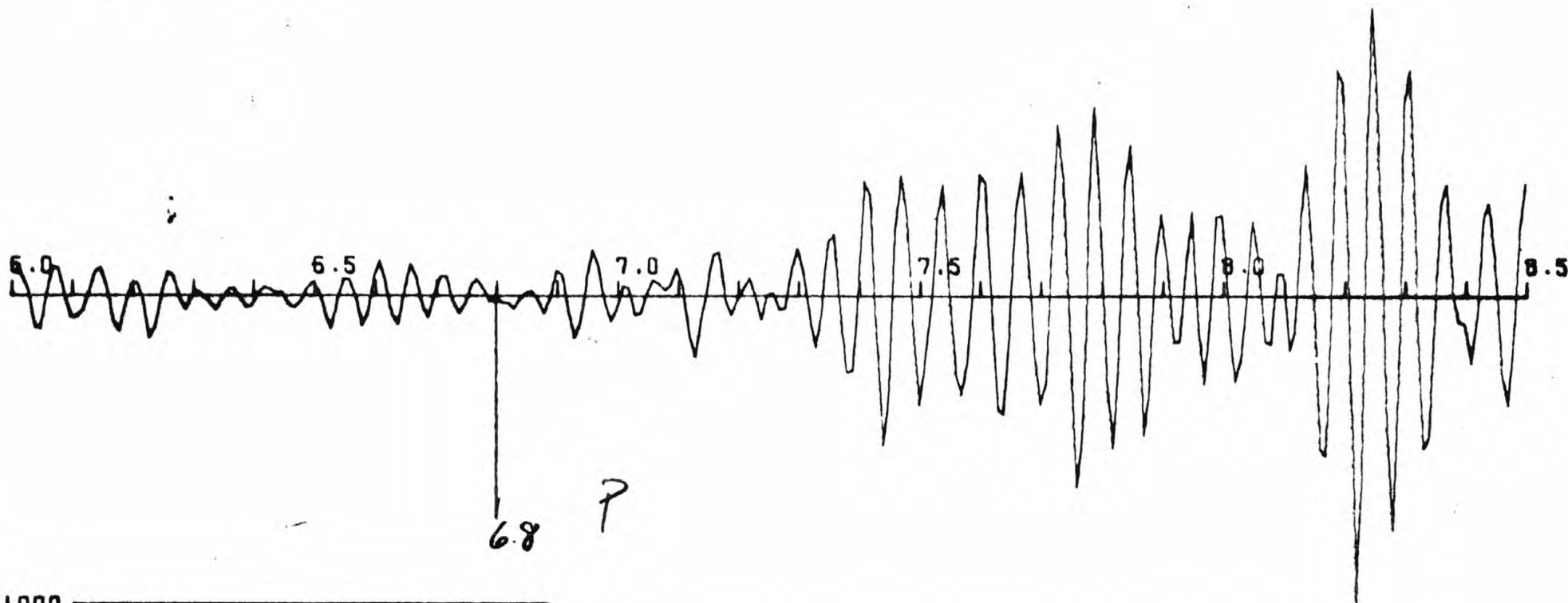
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 2

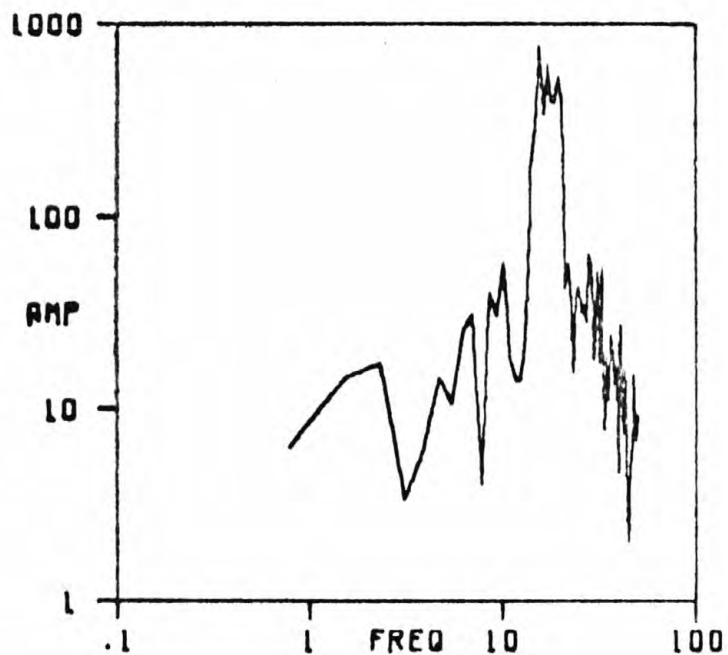
RECORDER LOCATION 322

DISTANCE FROM SHOT (KM) = -40.155

TSCALE (CM/SEC) = 10.0



256



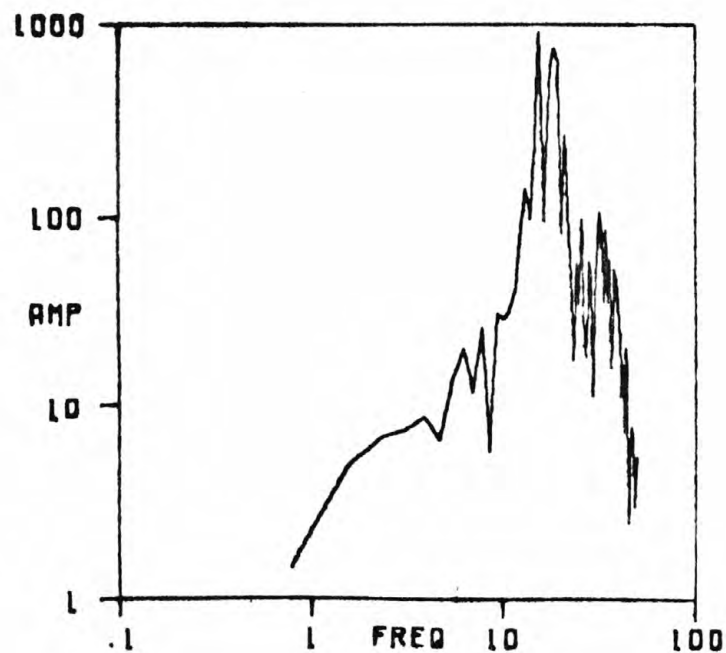
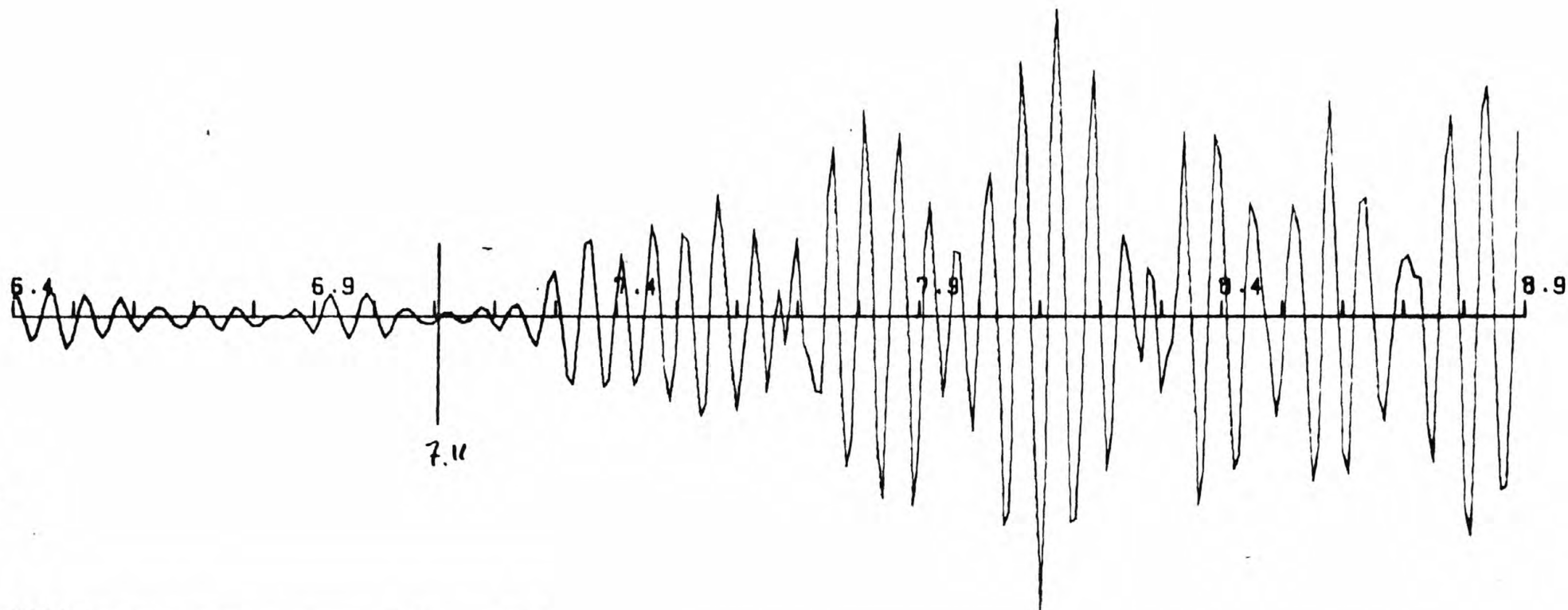
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 2

RECORDER LOCATION 323

DISTANCE FROM SHOT (KM) = -41.997

TSCALE (CM/SEC) = 10.0



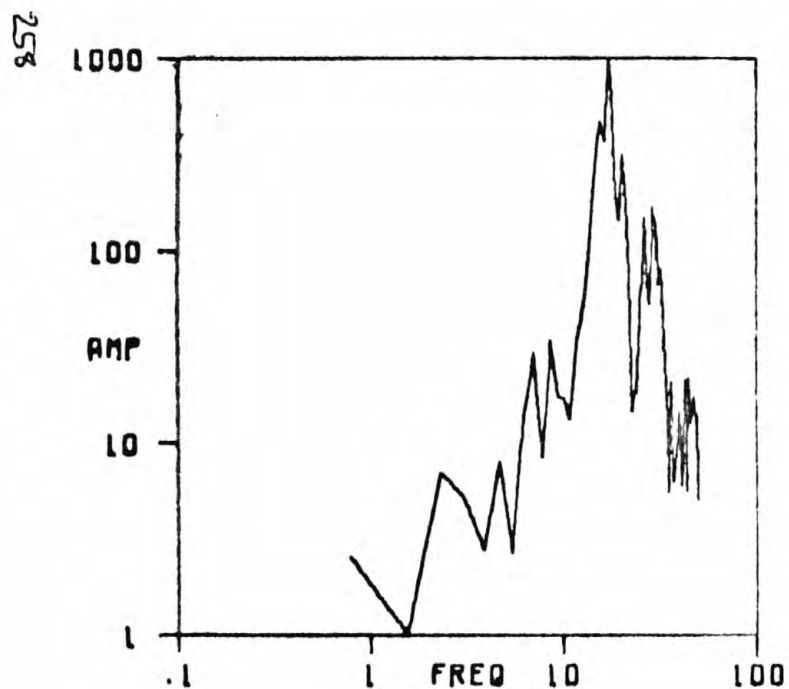
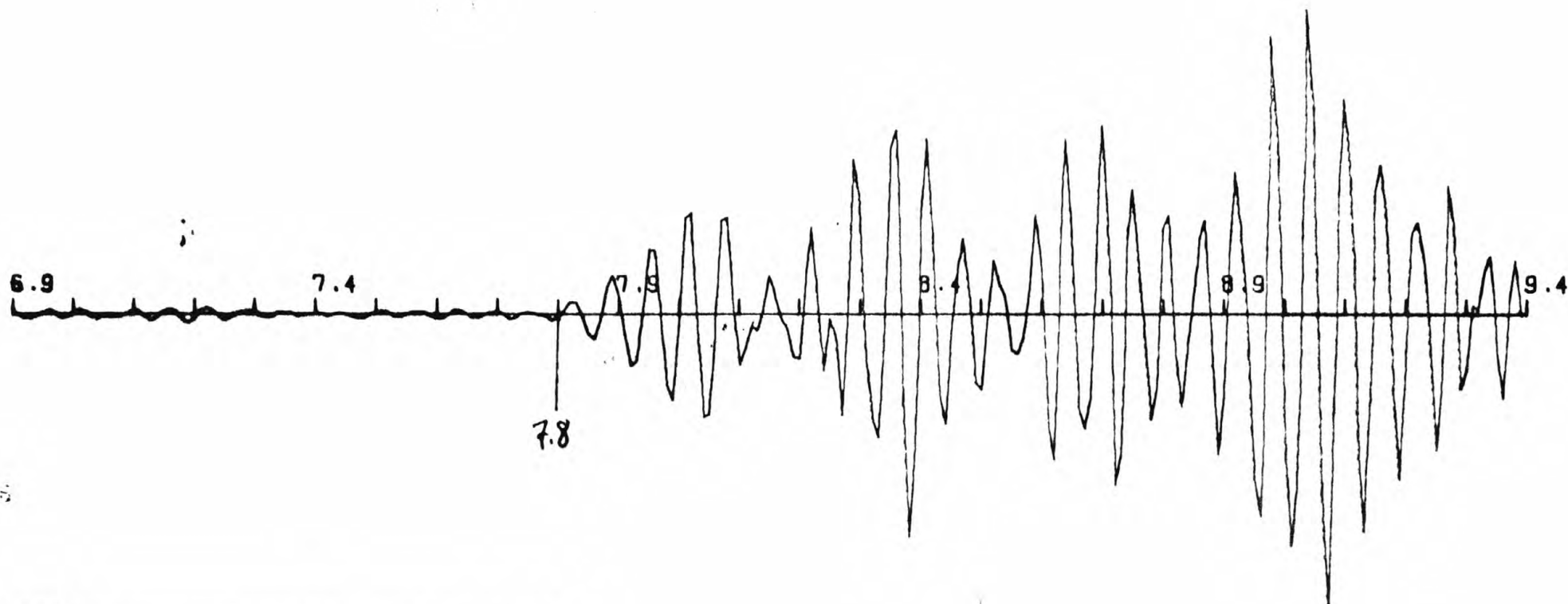
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 2

RECORDER LOCATION 324

DISTANCE FROM SHOT (KM) = -44.223

TS SCALE (CM/SEC) = 10.0



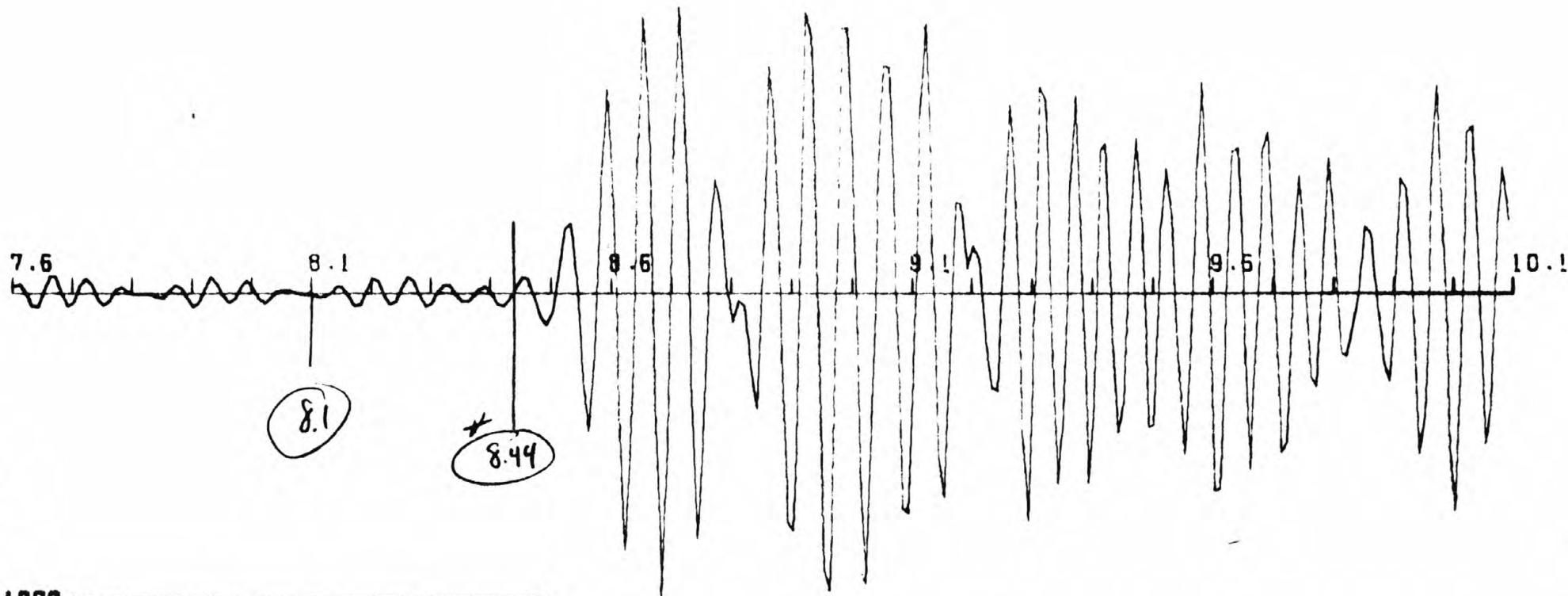
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 2

RECORDER LOCATION 326

DISTANCE FROM SHOT (KM) = -47.290

TSCALE (CM/SEC) = 10.0



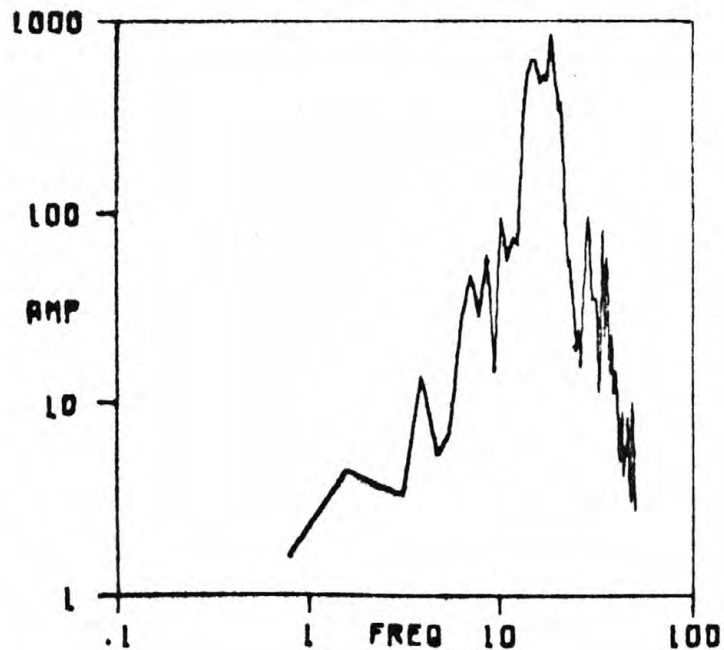
SAUDI REFRACTION PROFILE 15.20 BP

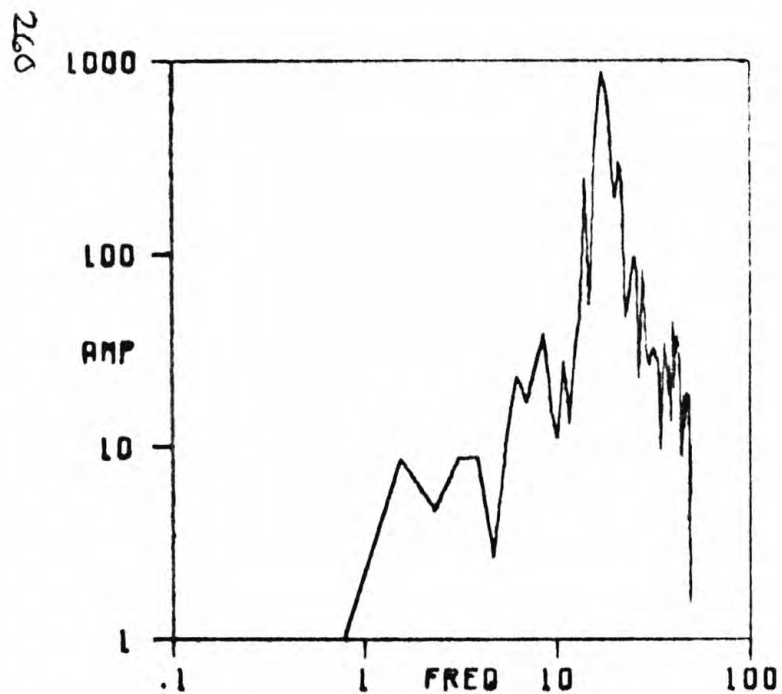
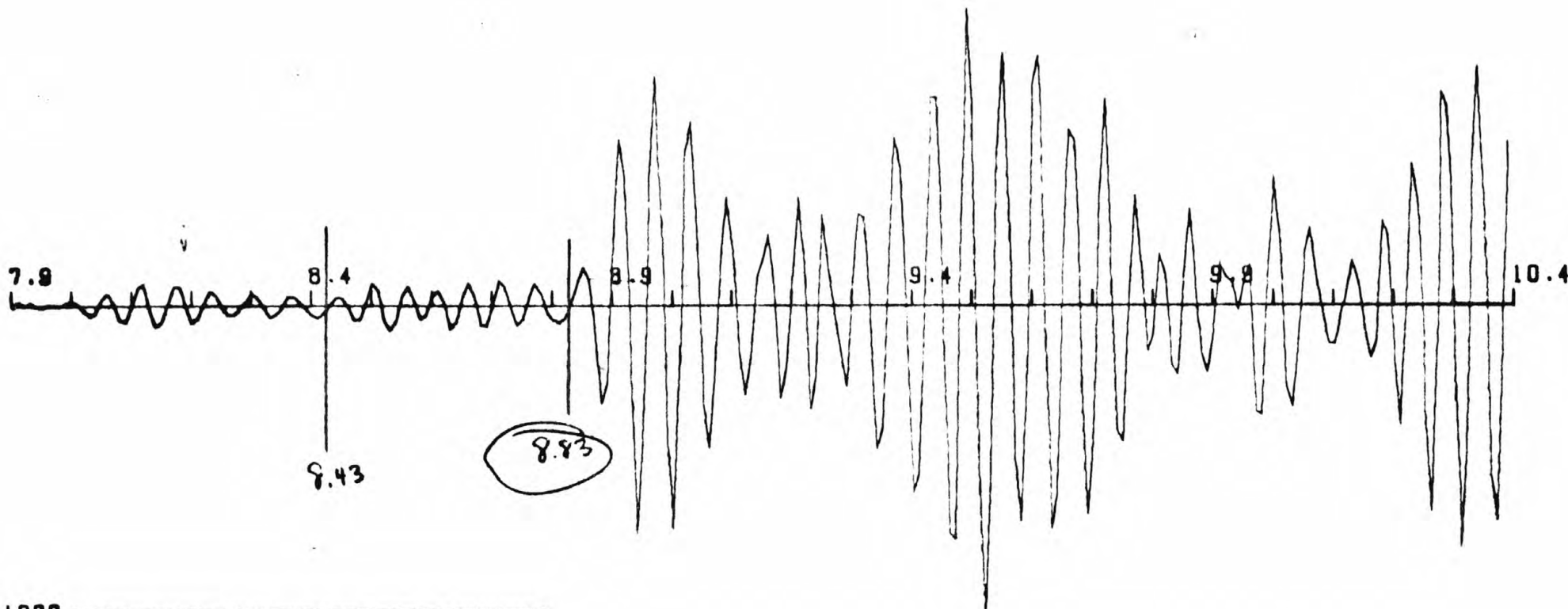
SHOT POINT 2

RECORDER LOCATION 328

DISTANCE FROM SHOT (KM) = -51.089

TSCALE (CM/SEC) = 10.0





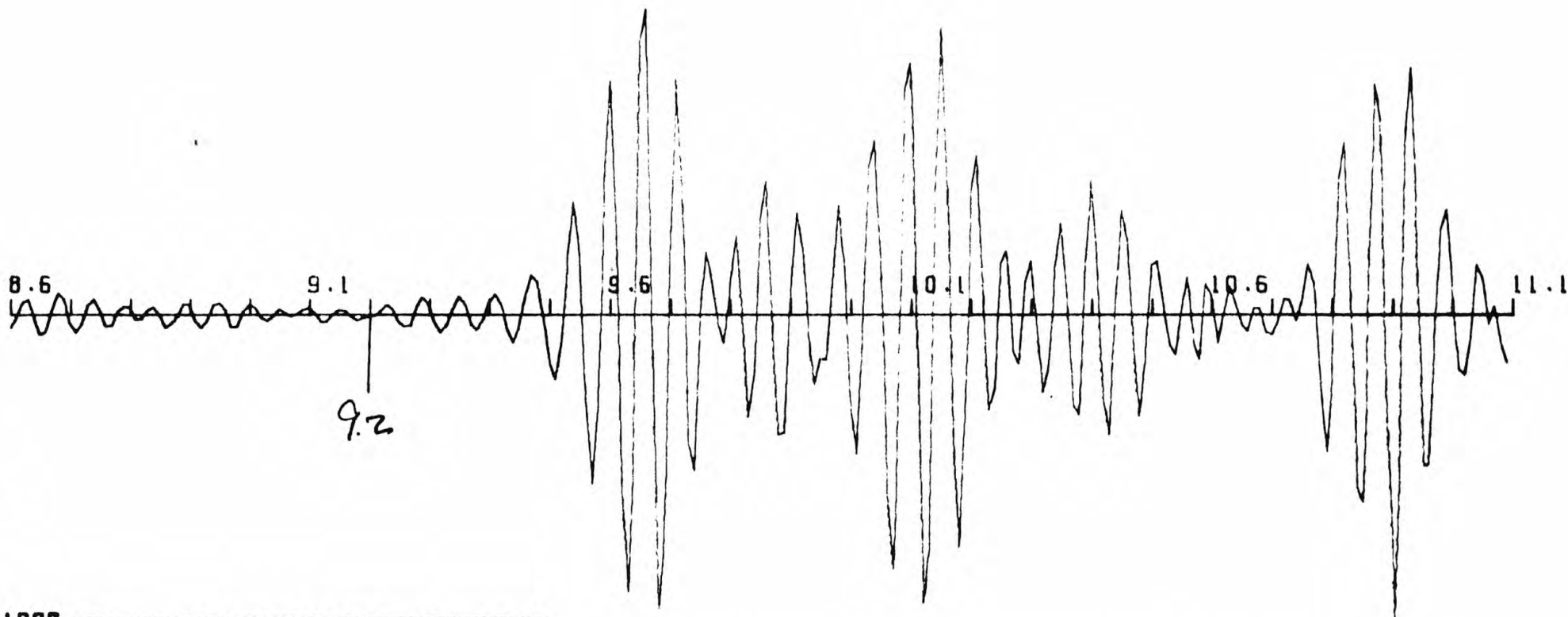
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 2

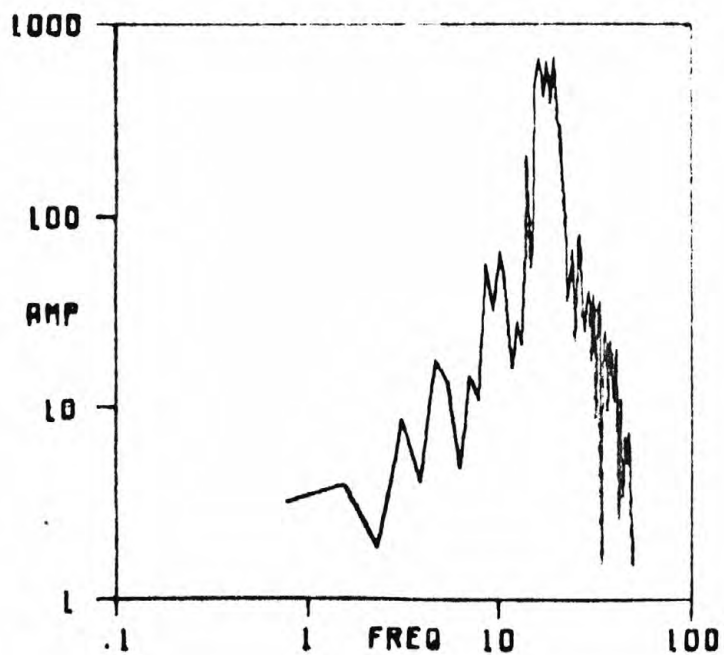
RECORDER LOCATION 329

DISTANCE FROM SHOT (KM) = -53.181

TSCALE (CM/SEC) = 10.0



261



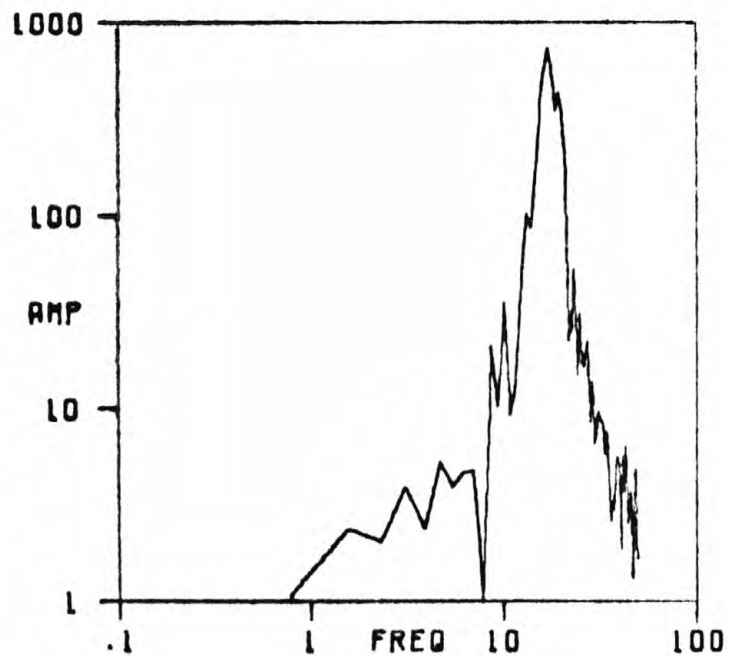
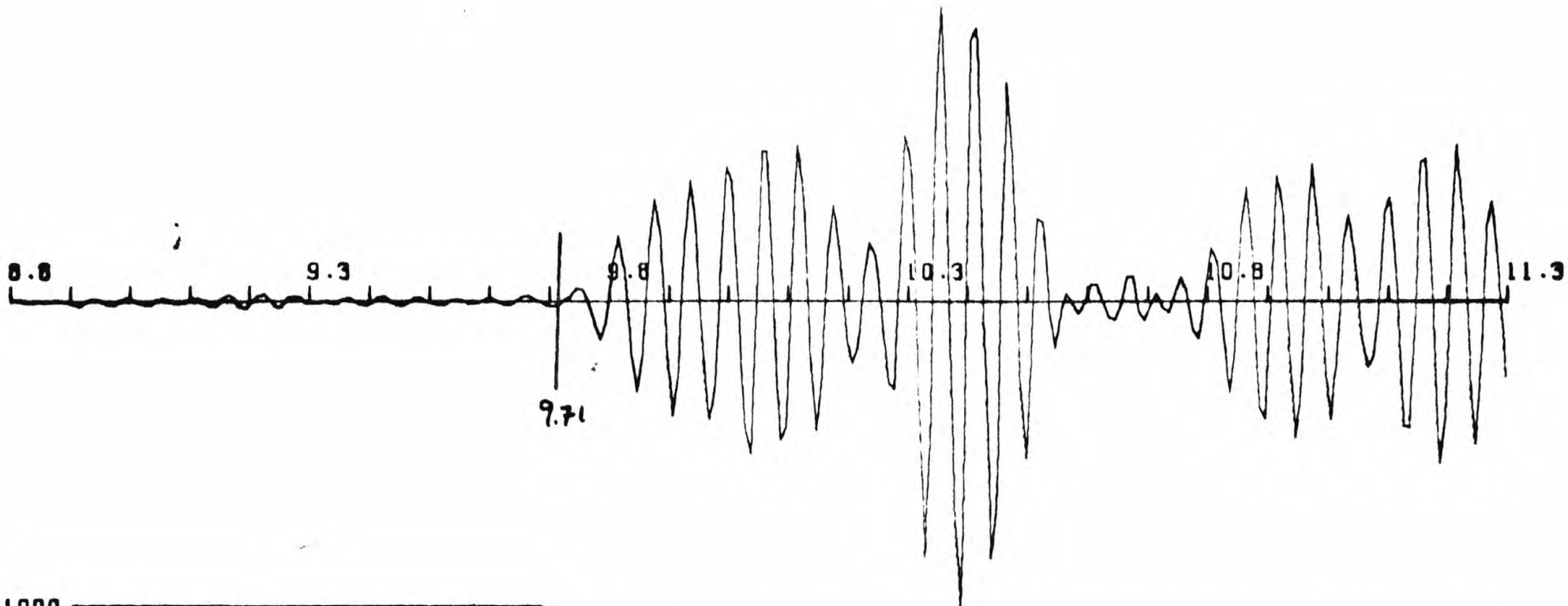
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 2

RECORDER LOCATION 330

DISTANCE FROM SHOT (KM) = -57.005

TSCALE (CM/SEC) = 10.0



SAUDI REFRACTION PROFILE 15.20 BP"

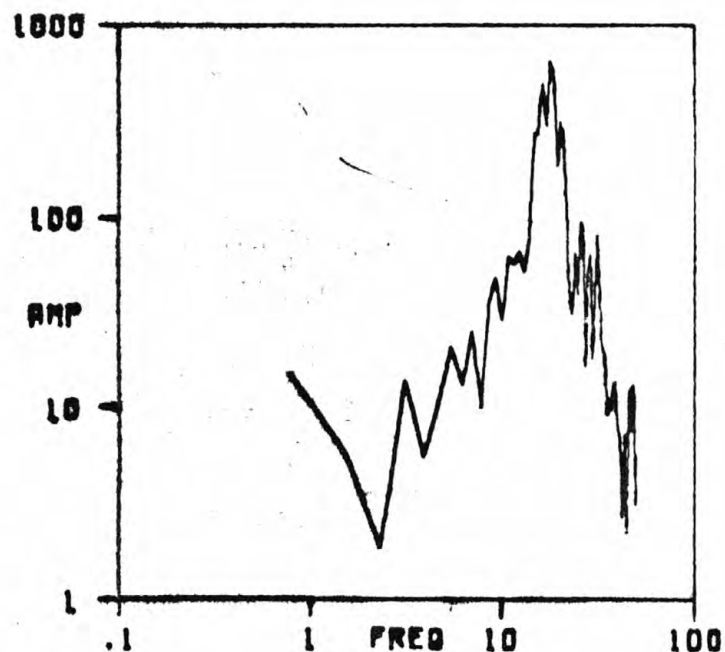
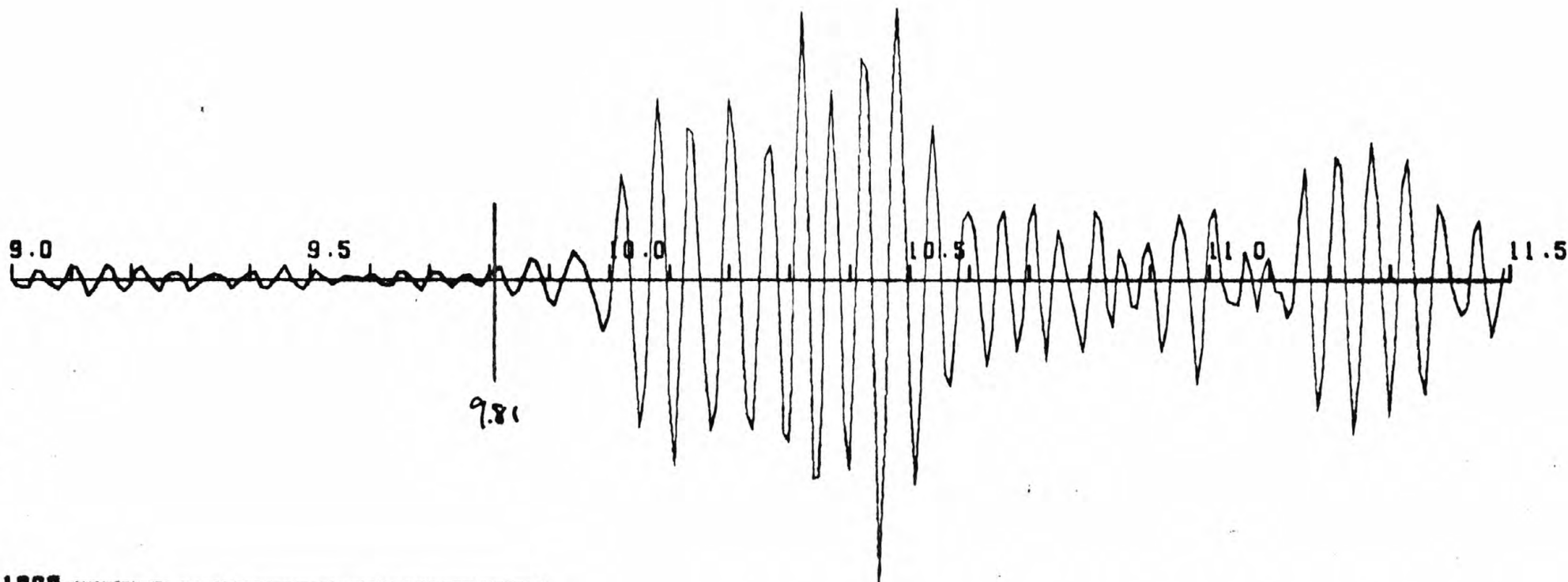
SHOT POINT 2

RECORDER LOCATION 331

DISTANCE FROM SHOT (KM) = -58.663

TSCALE (CM/SEC) = 10.0

263



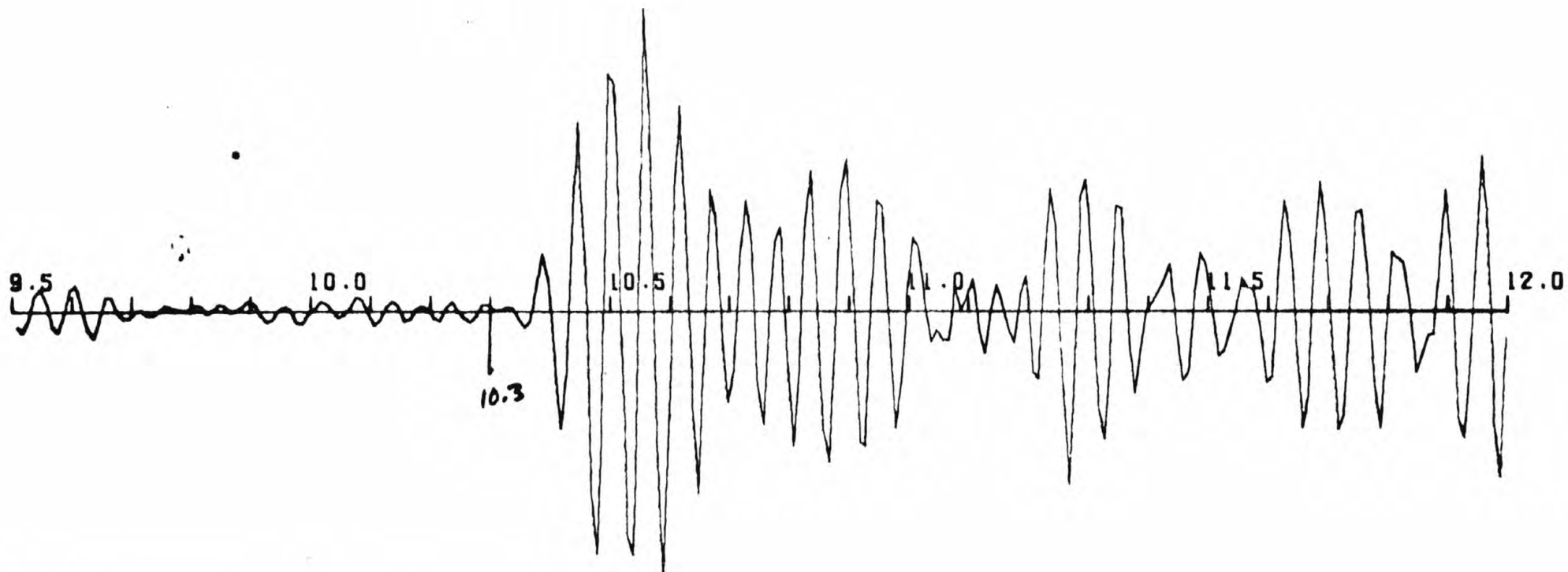
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 2

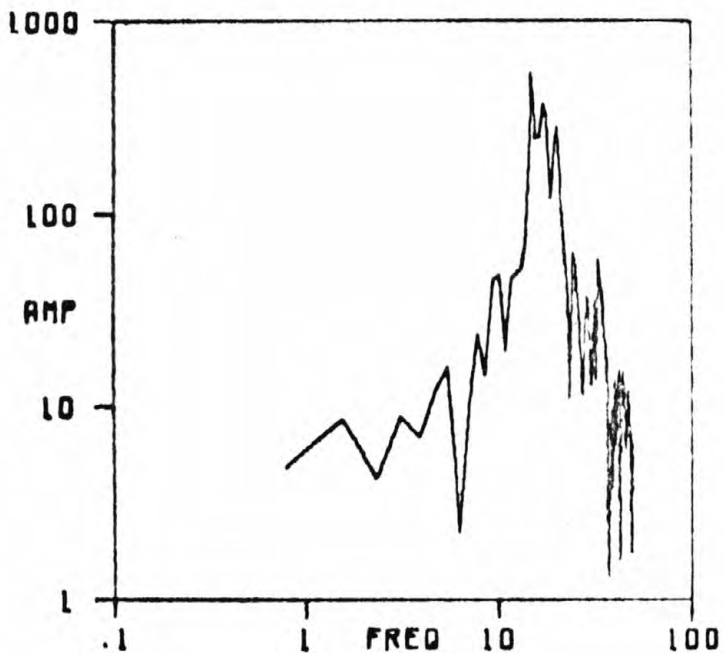
RECORDER LOCATION 332

DISTANCE FROM SHOT (KM) = -58.825

TS SCALE (CM/SEC) = 10.0



264



SAUDI REFRACTION PROFILE 15.20 BP

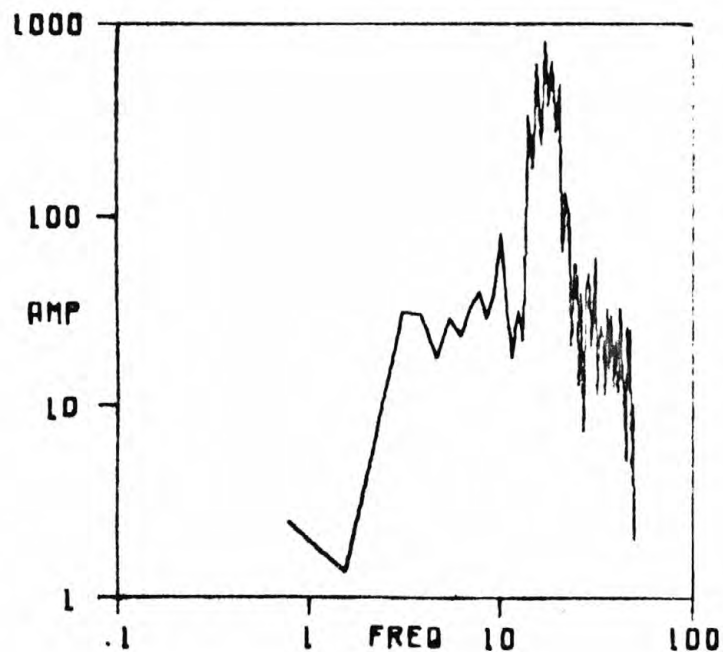
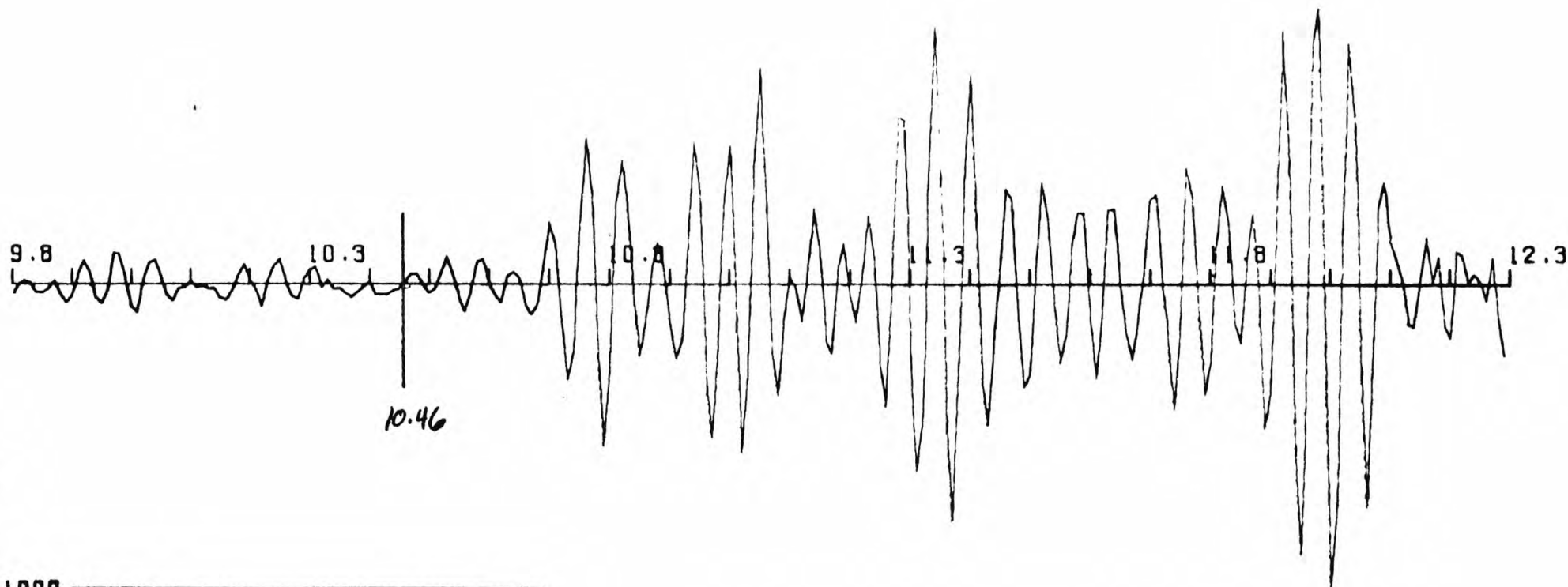
SHOT POINT 2

RECORDER LOCATION 394

DISTANCE FROM SHOT (KM) = -62.571

TSCALE (CM/SEC) = 10.0

265



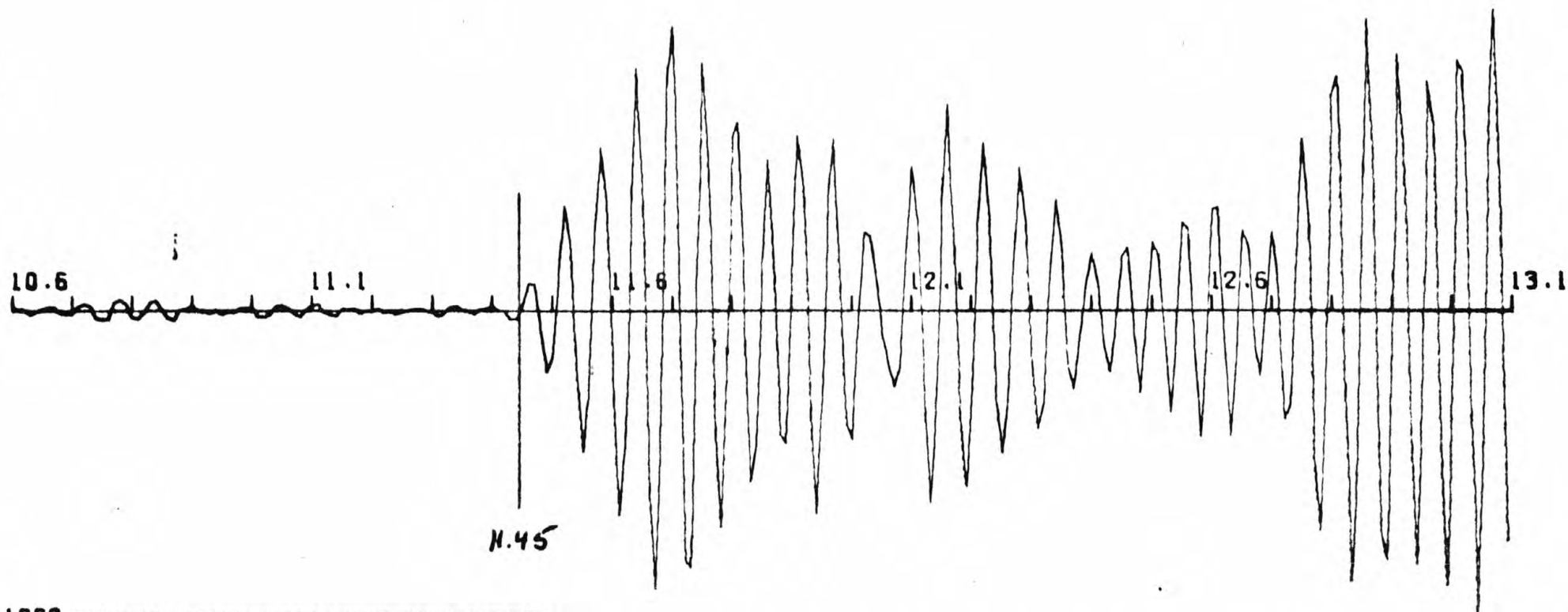
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 2

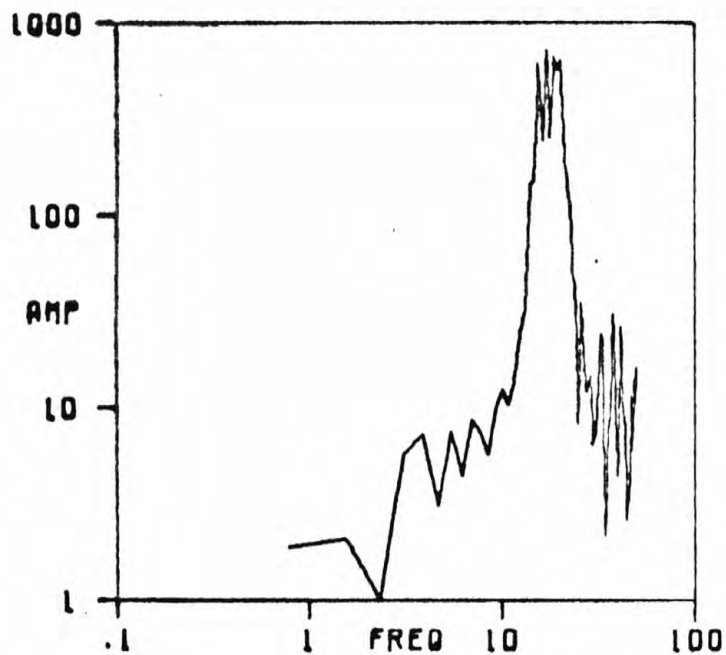
RECORDER LOCATION 335

DISTANCE FROM SHOT (KM) = -64.516

TSCALE (CM/SEC) = 10.0



226



SAUDI REFRACTION PROFILE 15.20 BP

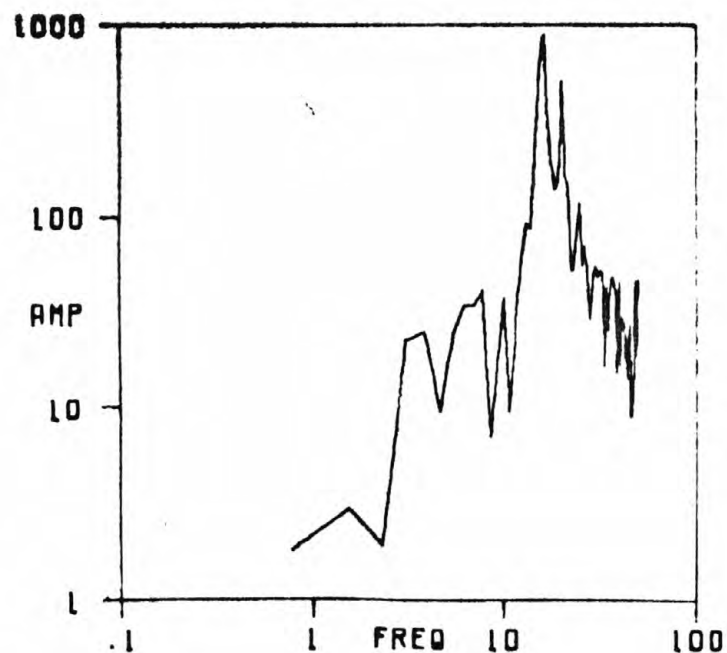
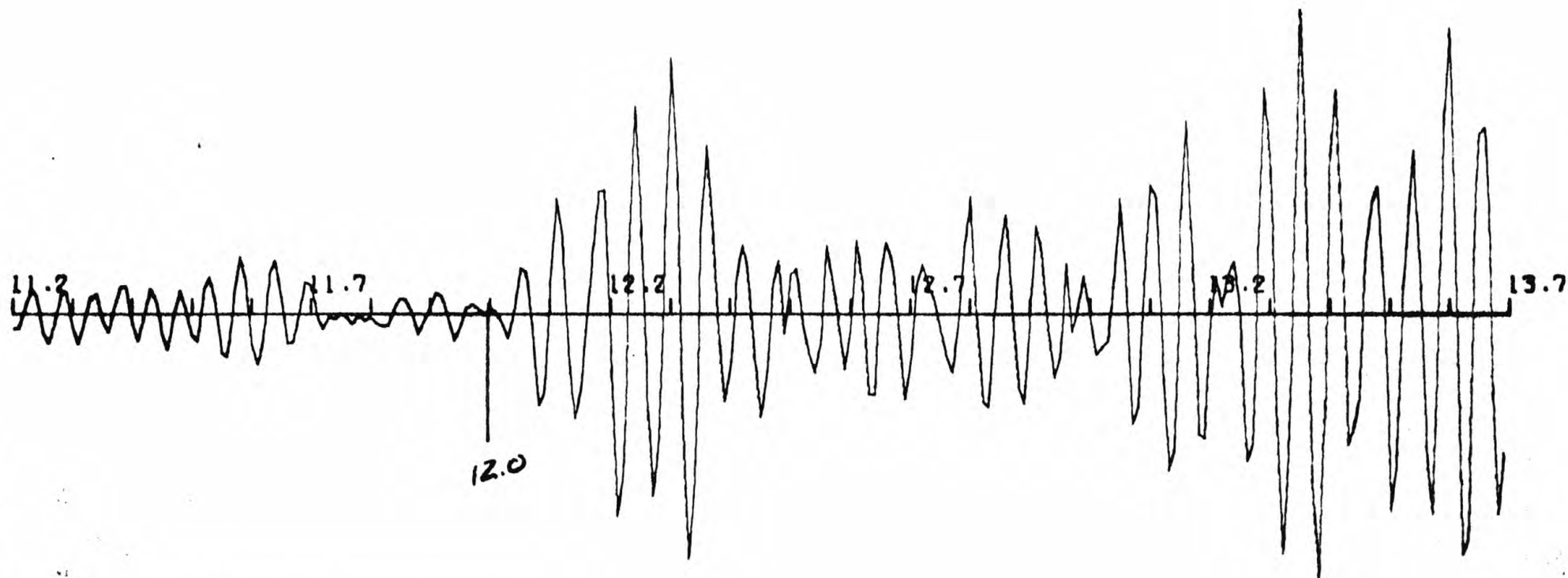
SHOT POINT 2

RECORDER LOCATION 337

DISTANCE FROM SHOT (KM) = -69.136

TSCALE (CM/SEC) = 10.0

267



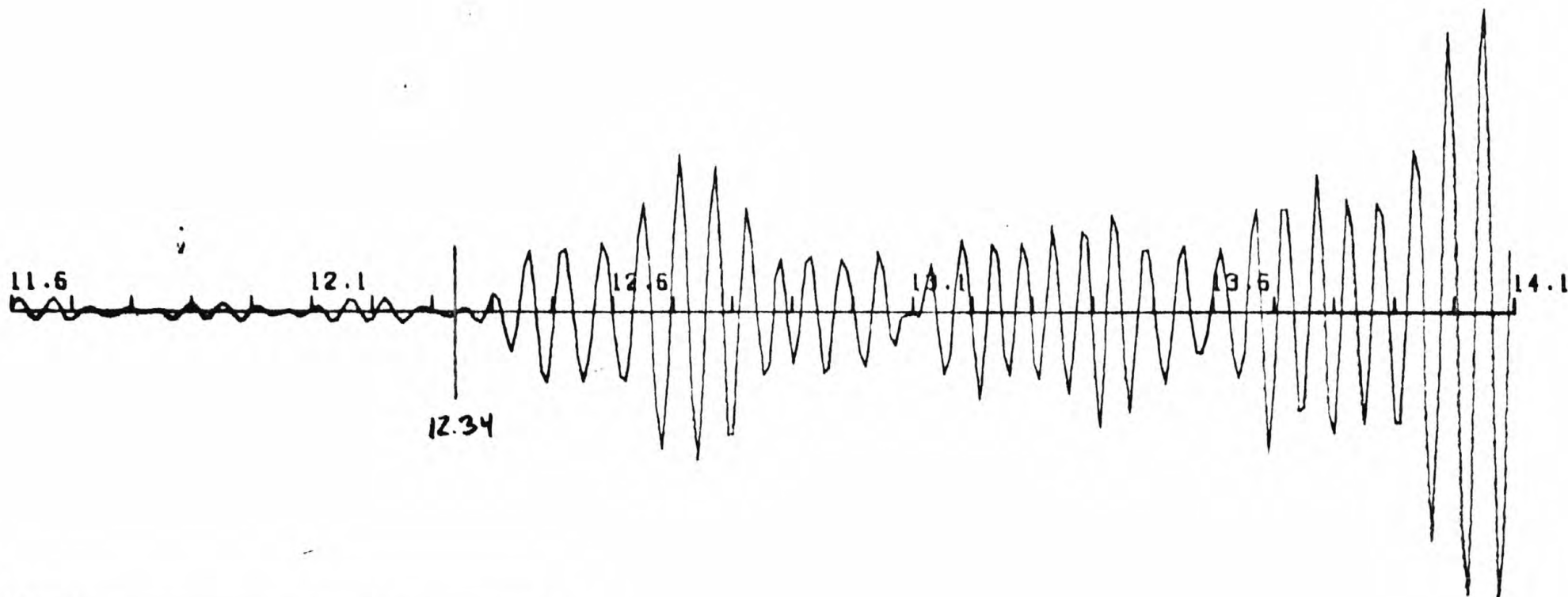
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 2

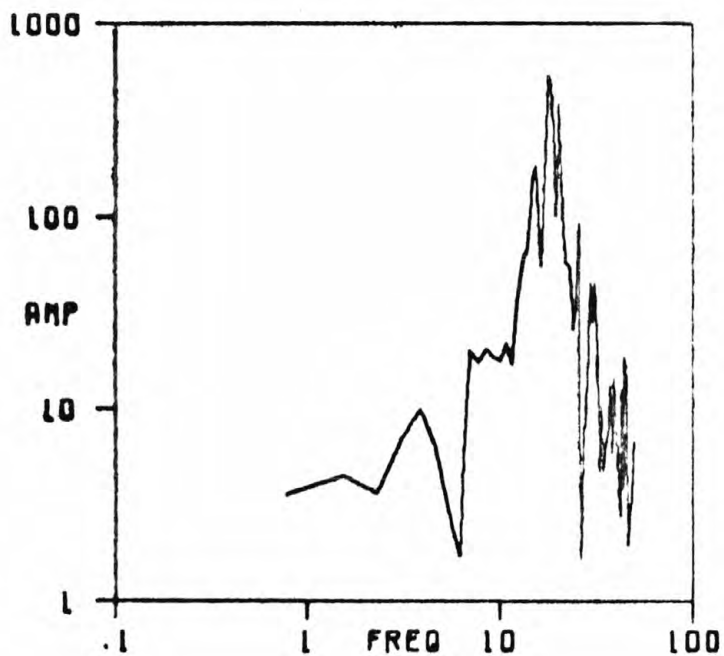
RECORDER LOCATION 339

DISTANCE FROM SHOT (KM) = -72.916

TSCALE (CM/SEC) = 10.0



268



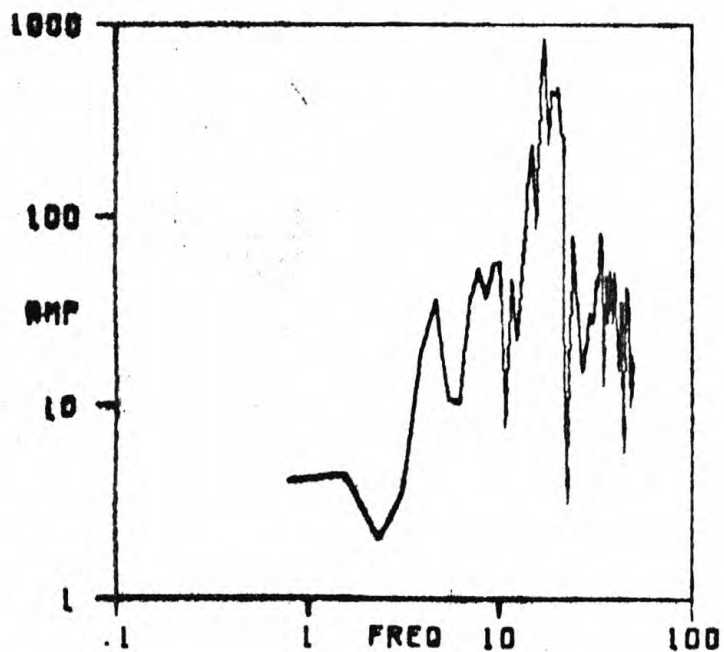
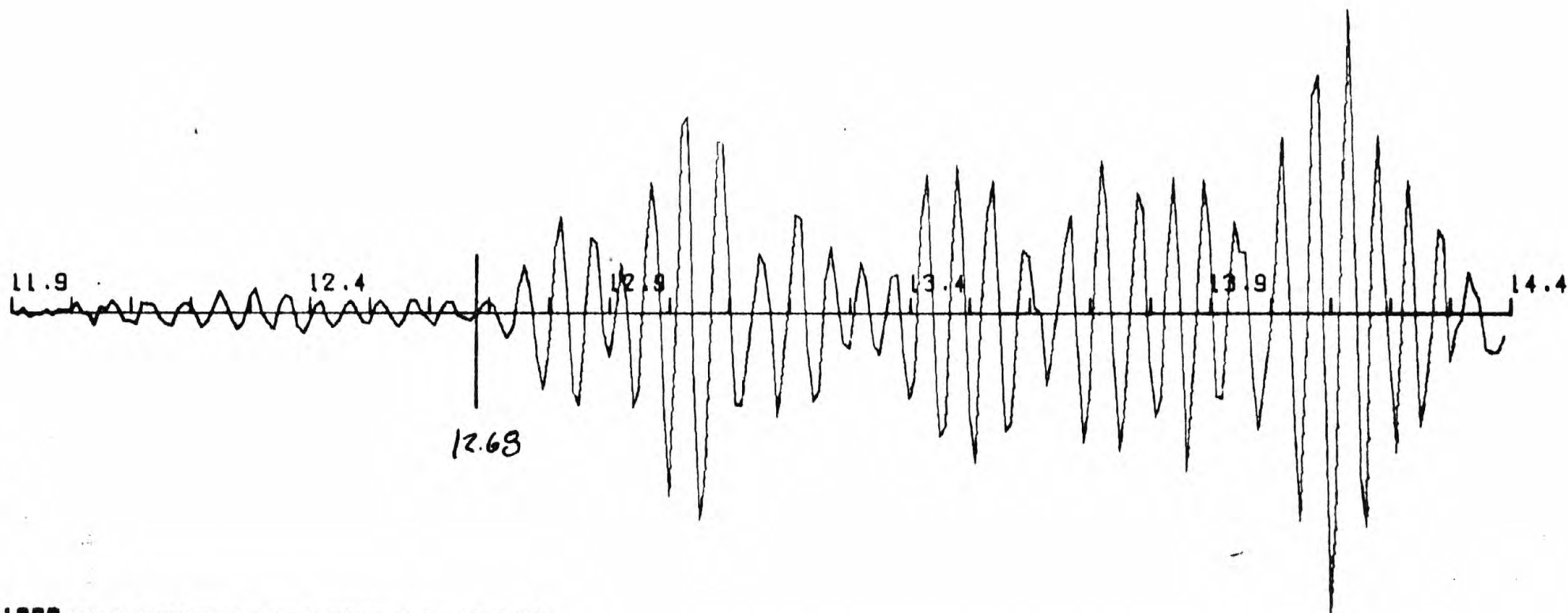
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 2

RECORDER LOCATION 340

DISTANCE FROM SHOT (KM) = -75.022

TSCALE (CM/SEC) = 10.0



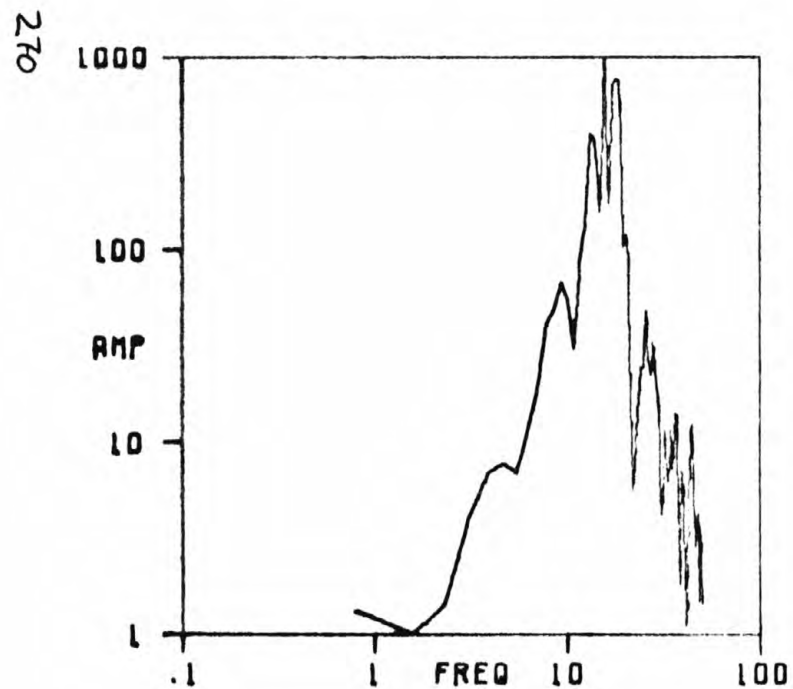
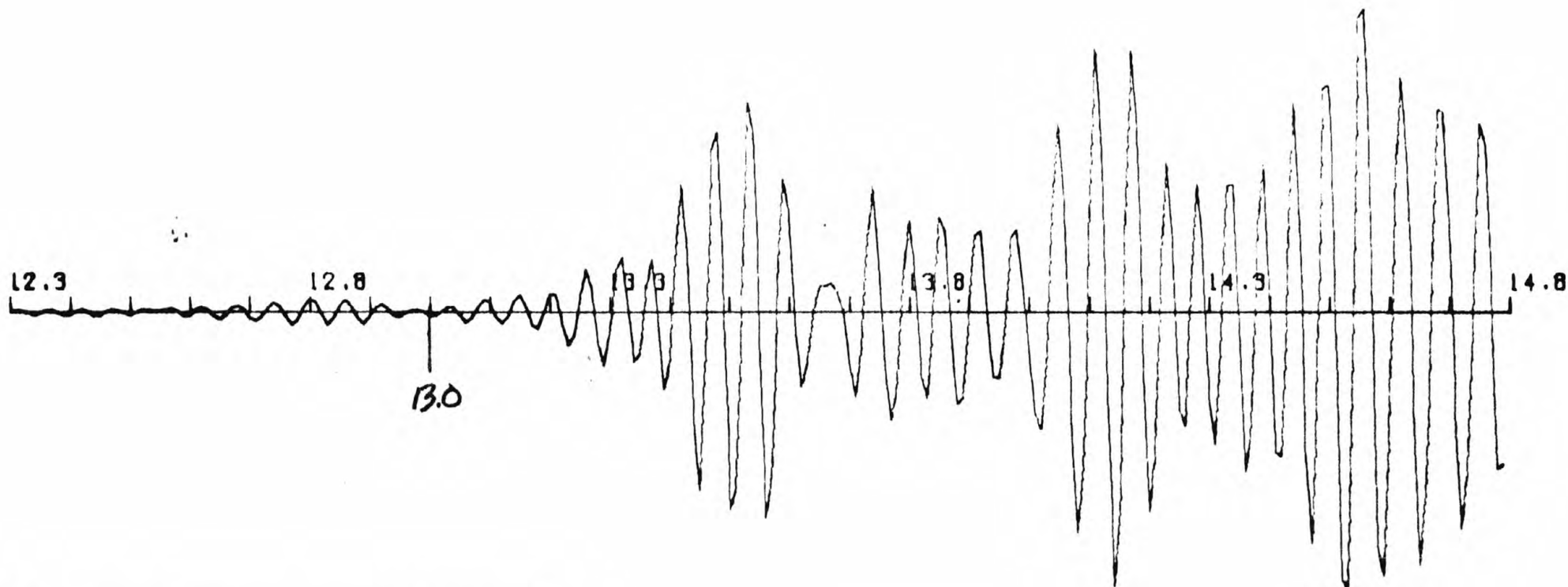
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 2

RECORDER LOCATION 341

DISTANCE FROM SHOT (KM) = -77.285

TSCALE (CM/SEC) = 10.0



SAUDI REFRACTION PROFILE 15.20 BP

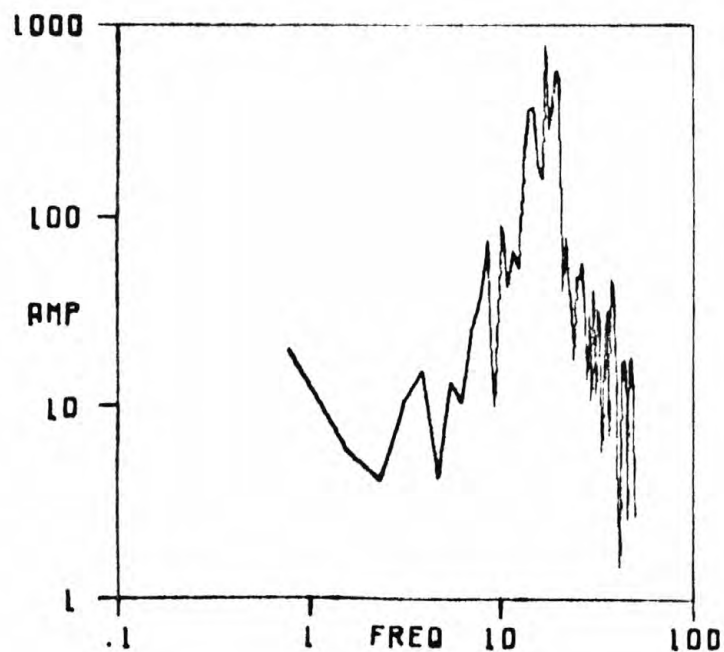
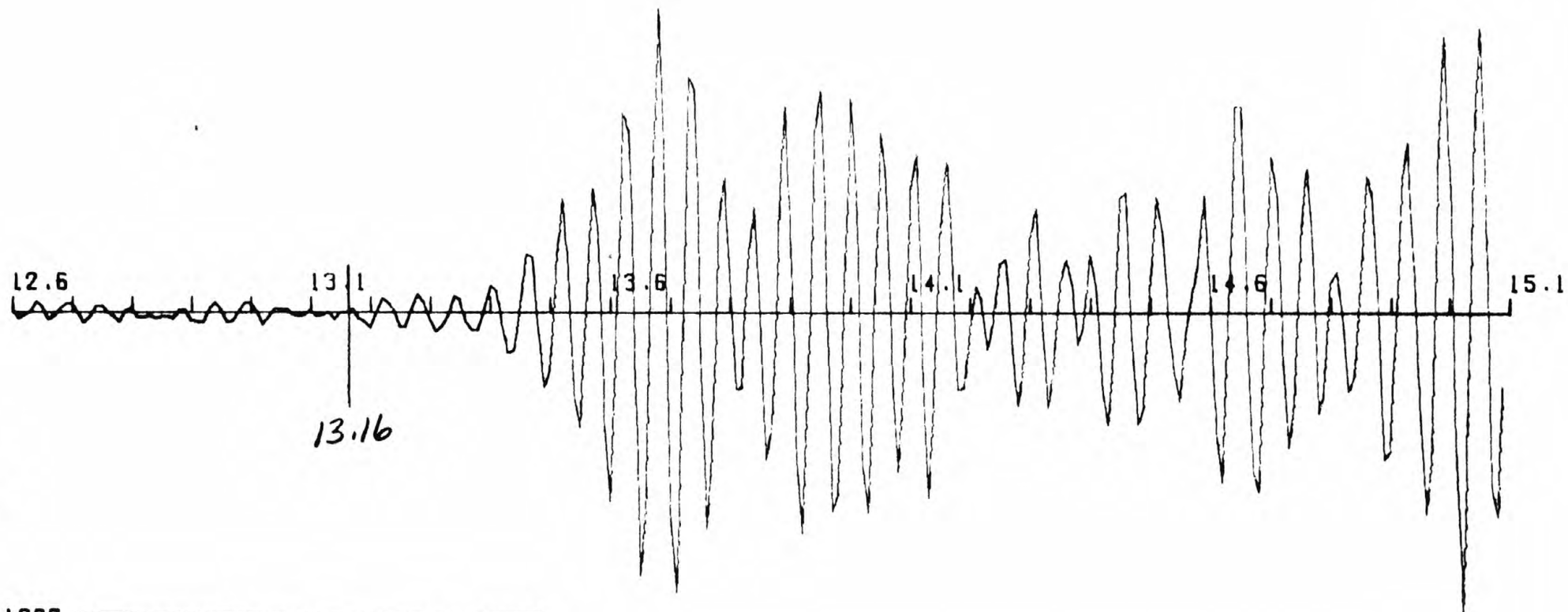
SHOT POINT 2

RECORDER LOCATION 342

DISTANCE FROM SHOT (KM) = -79.687

TSCALE (CM/SEC) = 10.0

271



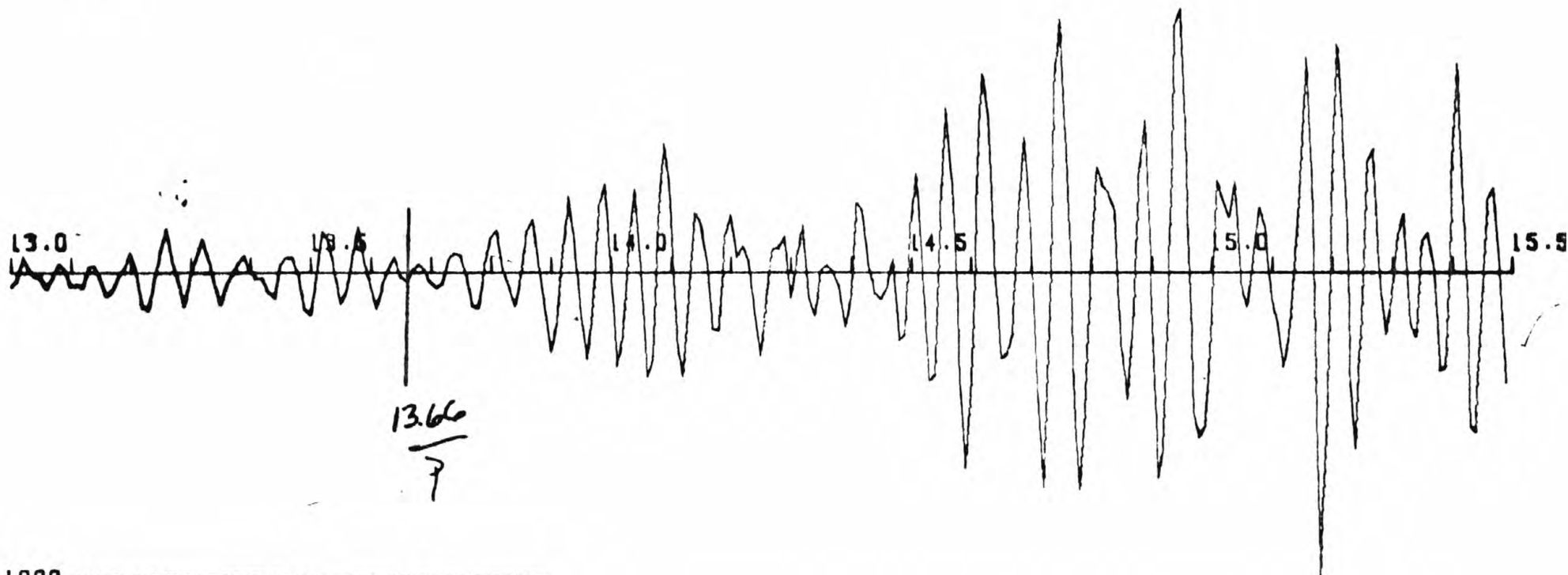
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 2

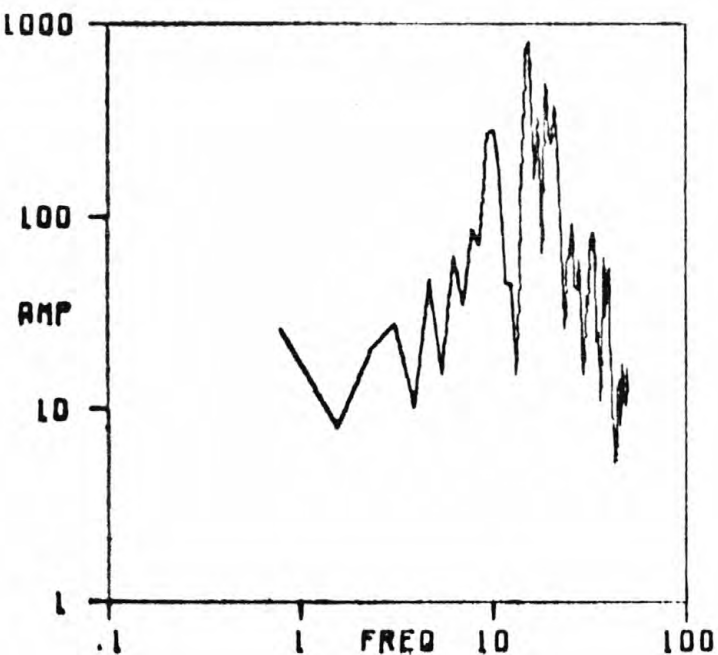
RECORDER LOCATION 343

DISTANCE FROM SHOT (KM) = -81.309

TSCALE (CM/SEC) = 10.0



272



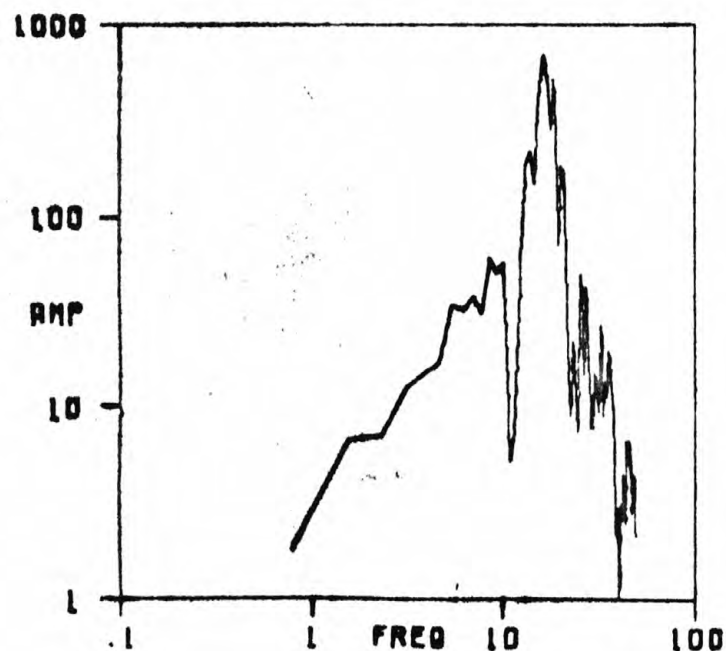
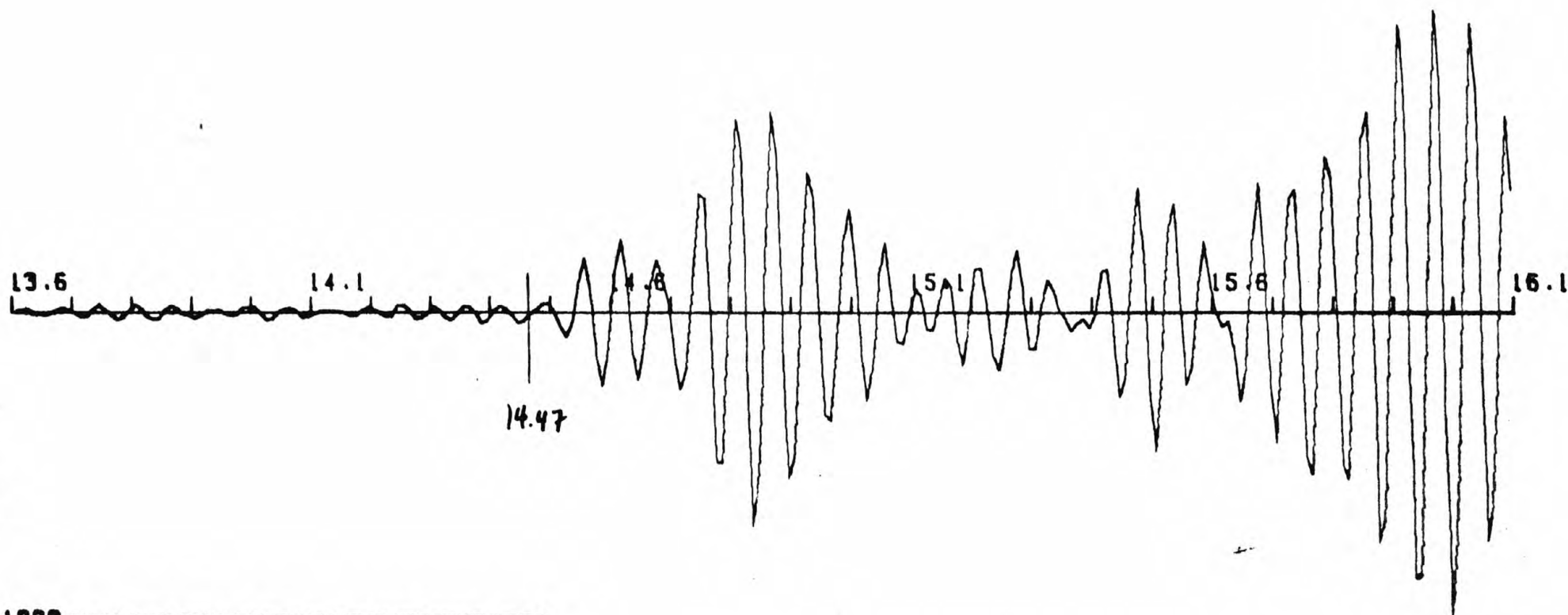
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 2

RECORDER LOCATION 344

DISTANCE FROM SHOT (KM) = -83.944

TSCALE (CM/SEC) = 10.0



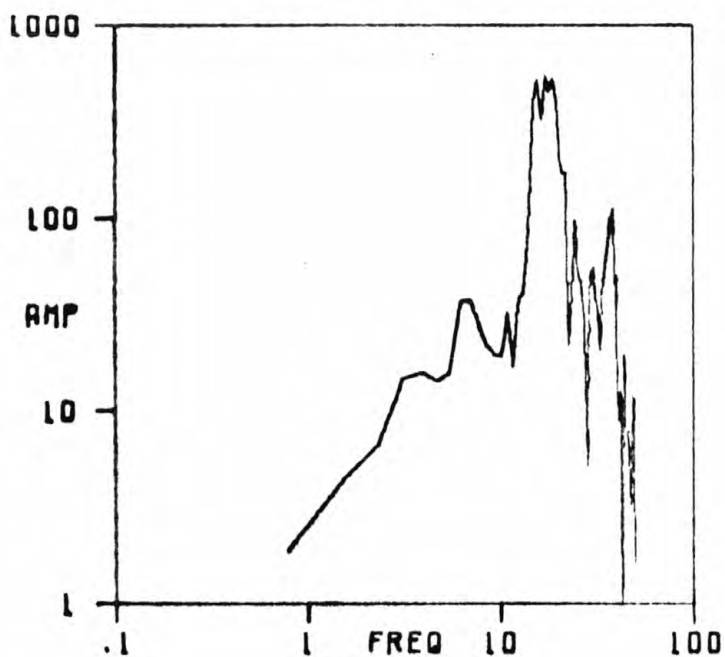
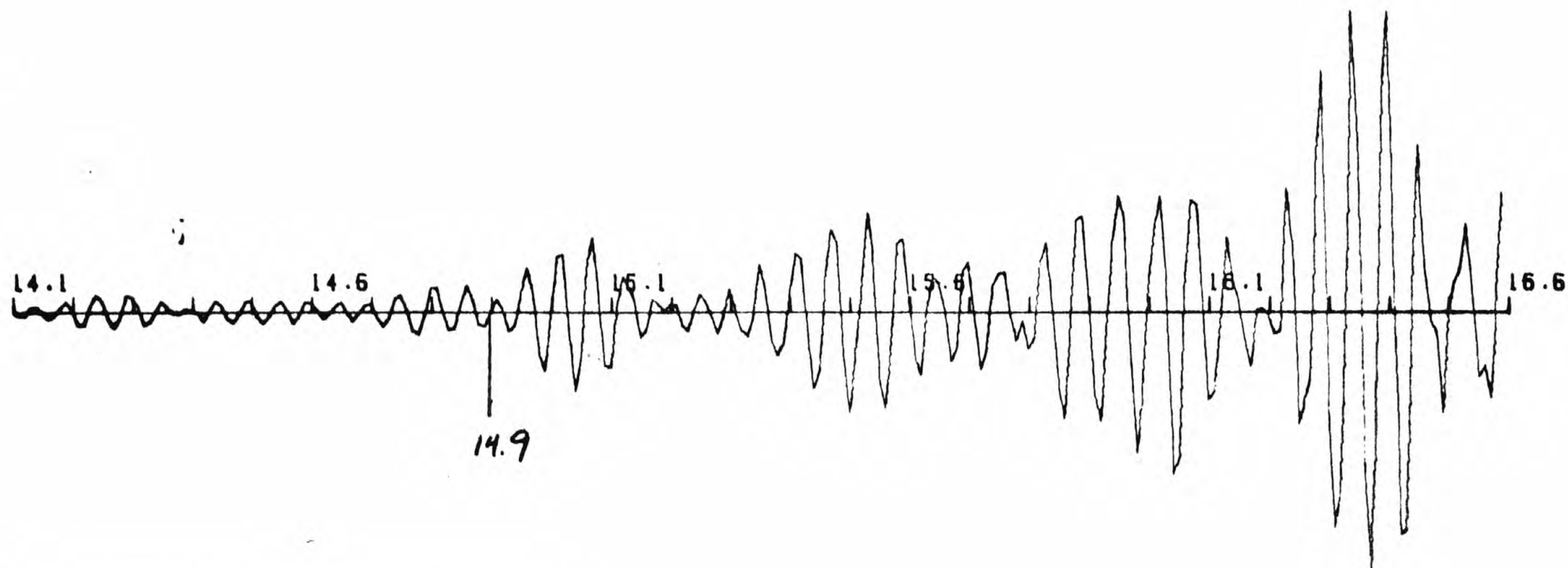
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 2

RECORDER LOCATION 346

DISTANCE FROM SHOT (KM) = -87.171

TSCALE (CM/SEC) = 10.0



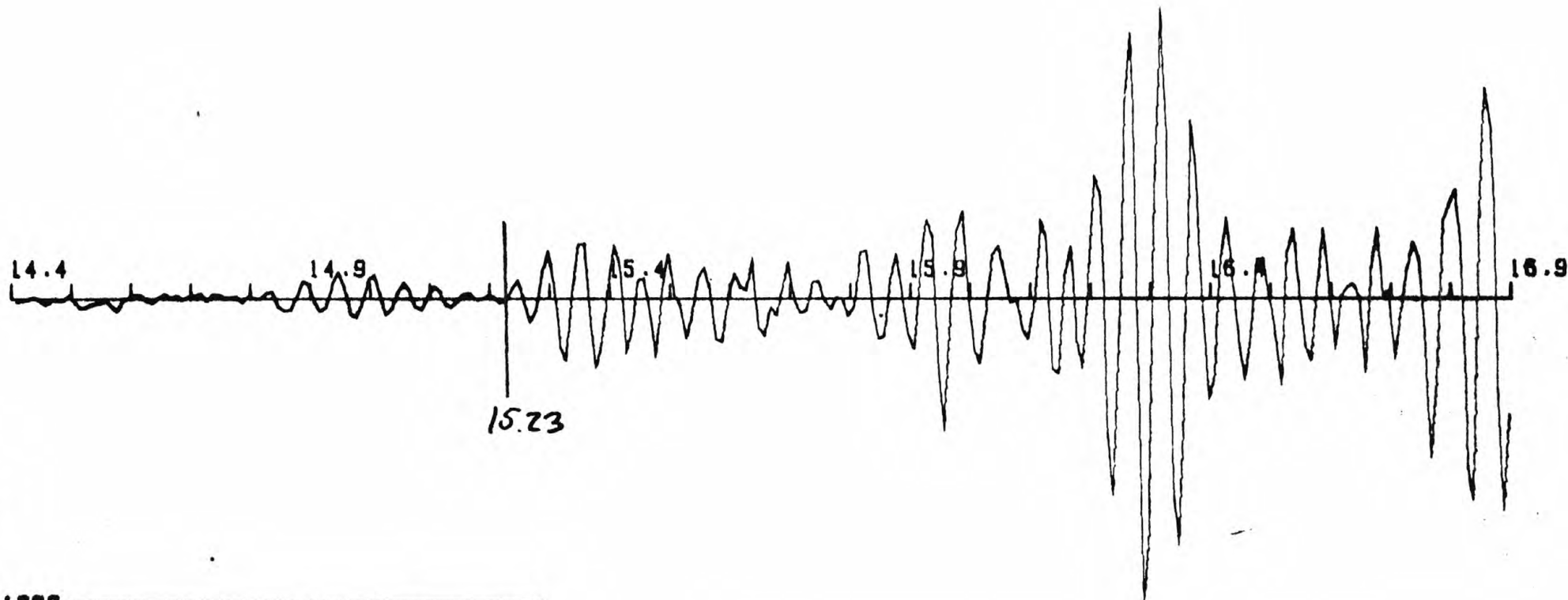
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 2

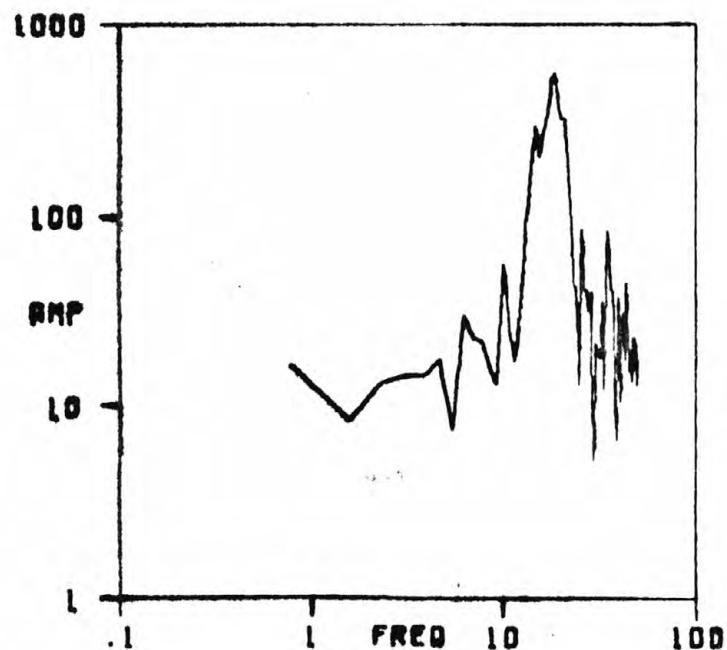
RECORDER LOCATION 347

DISTANCE FROM SHOT (KM) = -90.060

TSCALE (CM/SEC) = 10.0



275



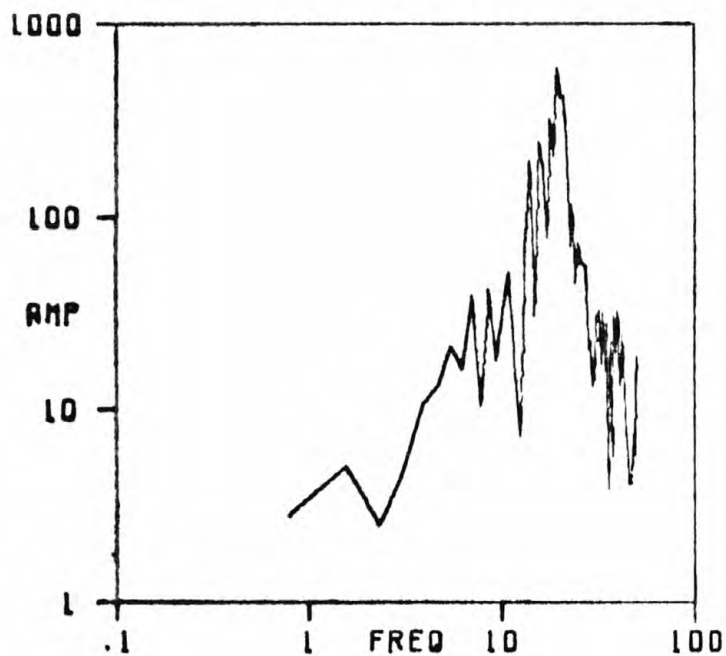
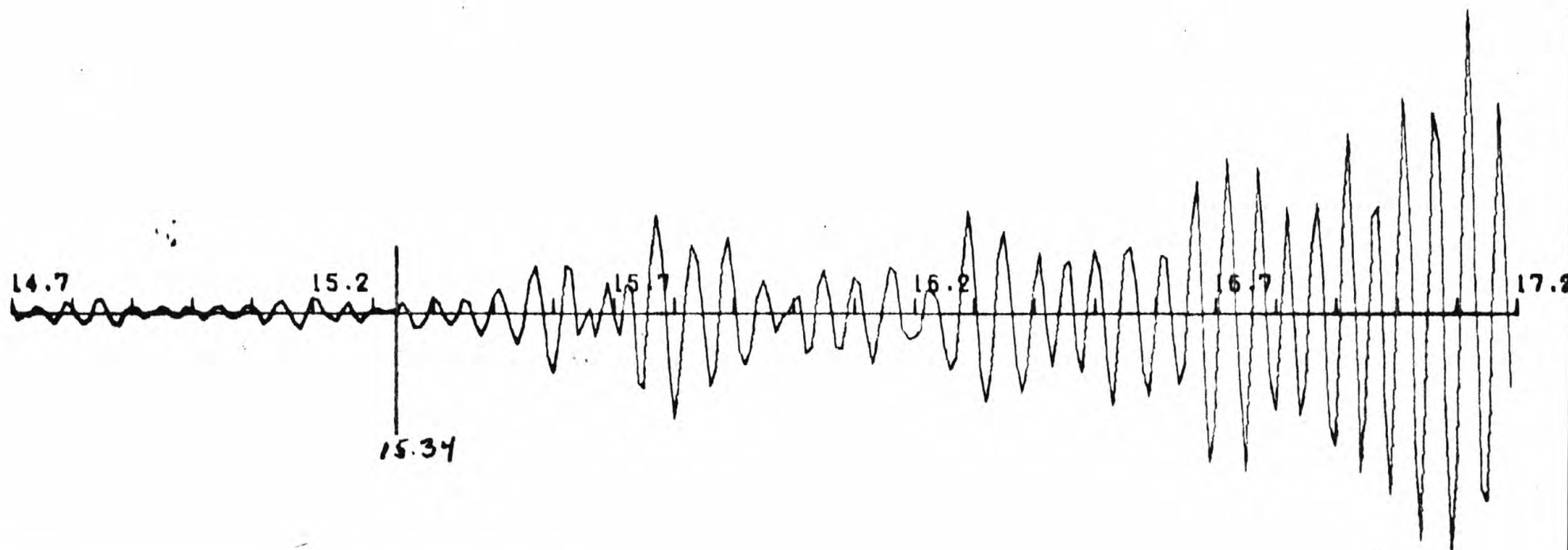
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 2

RECORDER LOCATION 348

DISTANCE FROM SHOT (KM) = -92.035

TS SCALE (CM/SEC) = 10.0



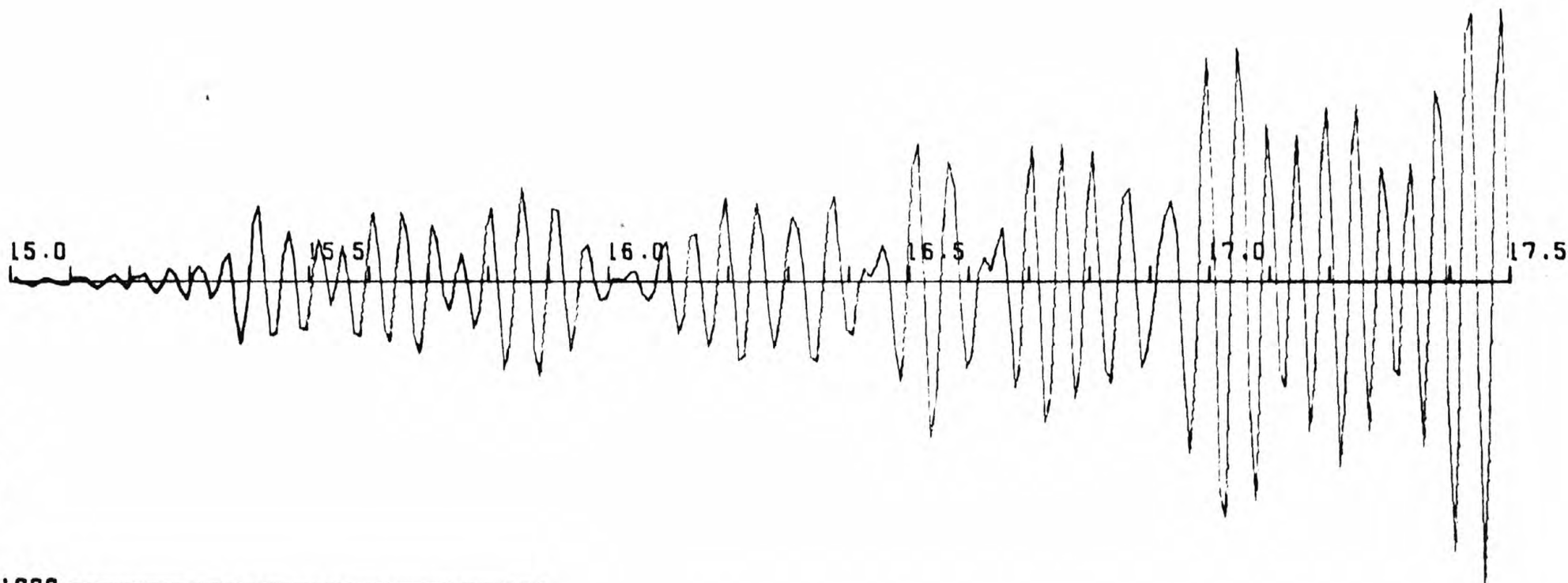
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 2

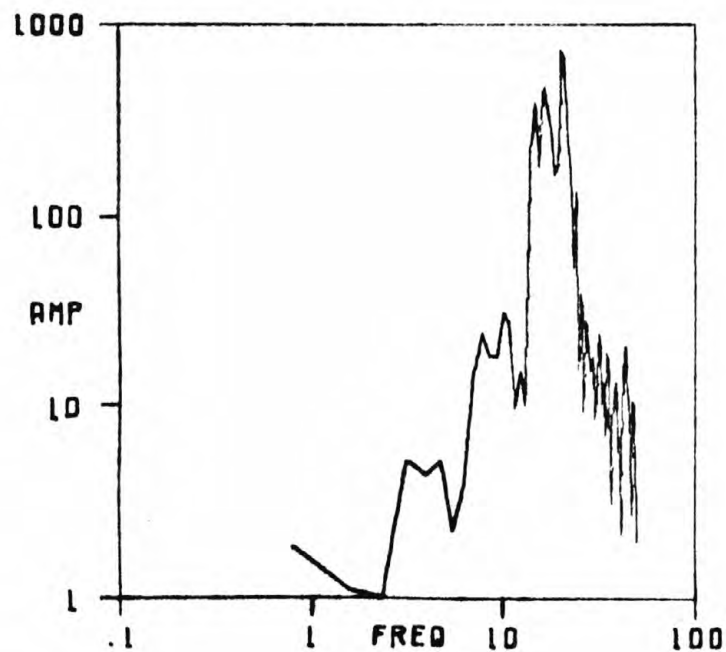
RECORDER LOCATION 349

DISTANCE FROM SHOT (KM) = -99.668

TSCALE (CM/SEC) = 10.0



277



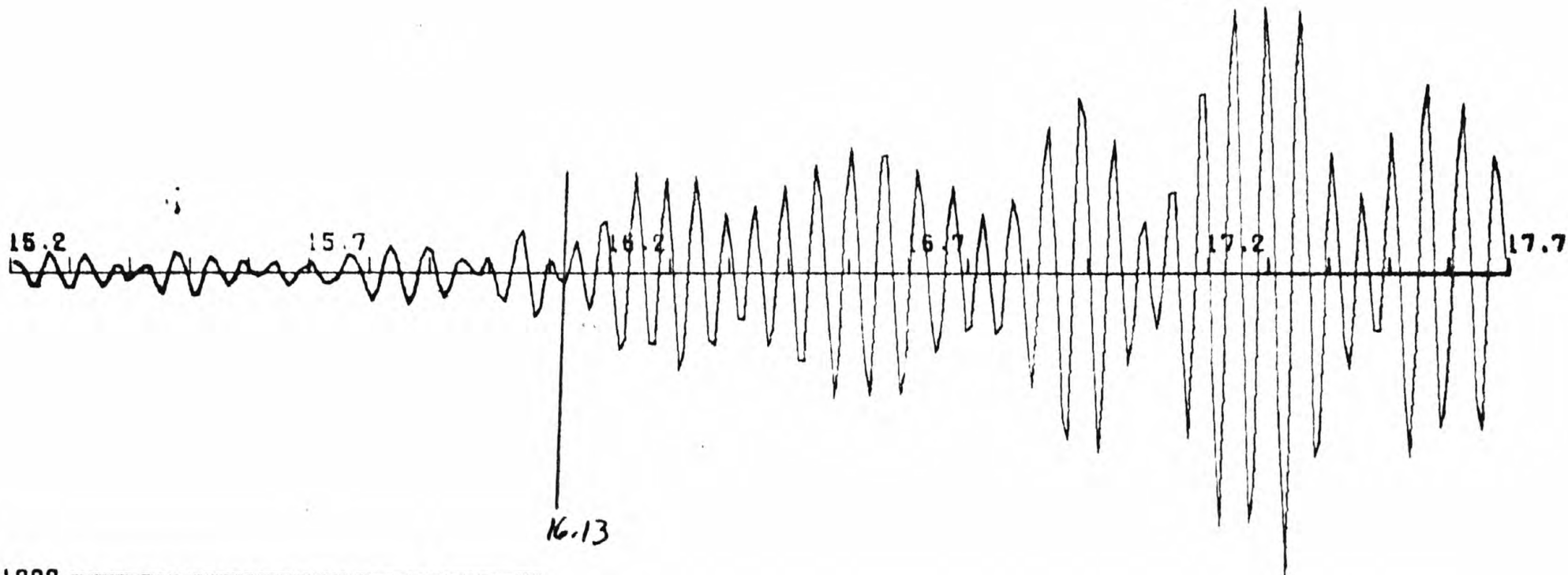
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 2

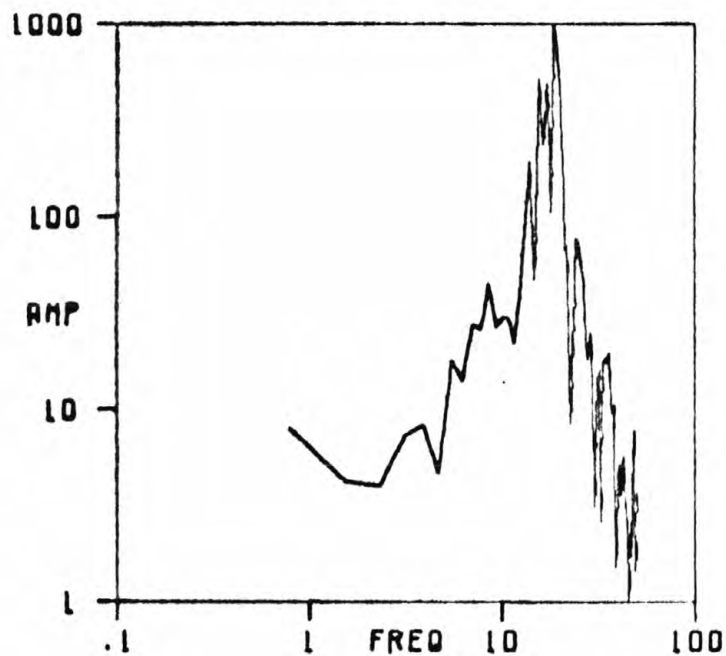
RECORDER LOCATION 350

DISTANCE FROM SHOT (KM) = -95.812

TSCALE (CM/SEC) = 10.0



278



SAUDI REFRACTION PROFILE 15.20 BP

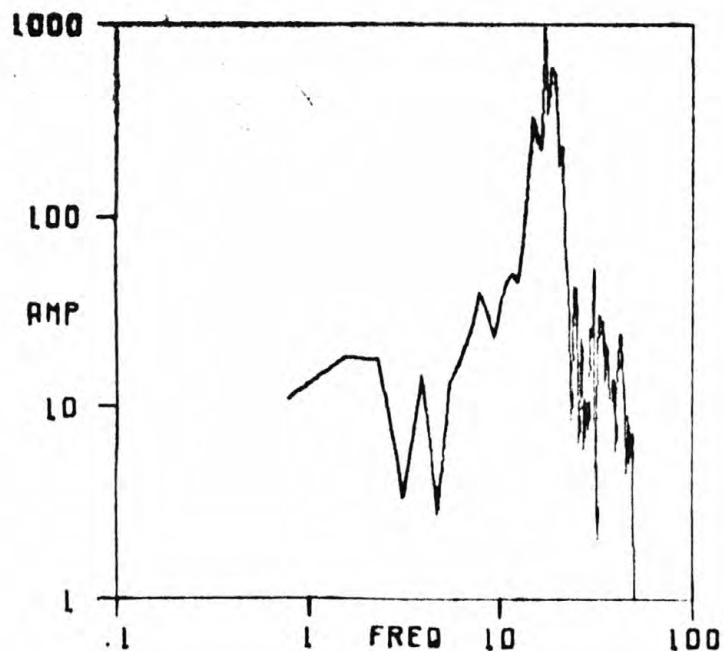
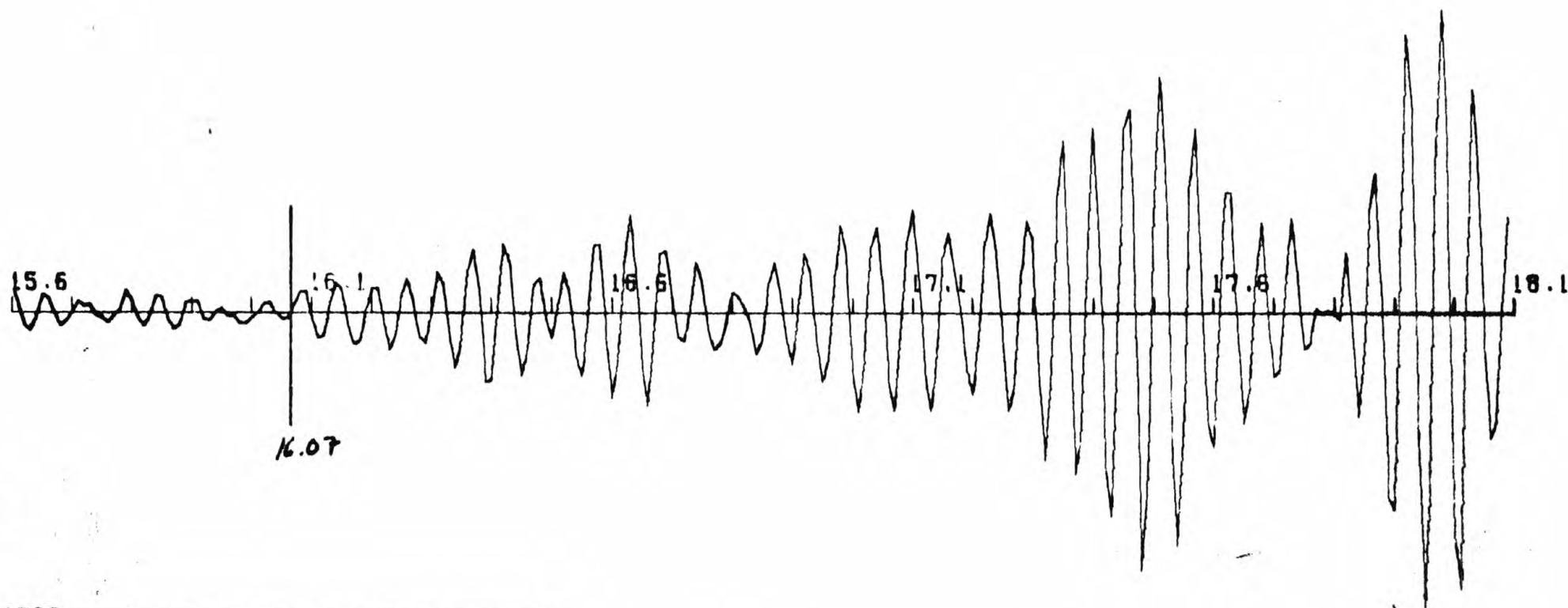
SHOT POINT 2

RECORDER LOCATION 351

DISTANCE FROM SHOT (KM) = -96.765

TSCALE (CM/SEC) = 10.0

279



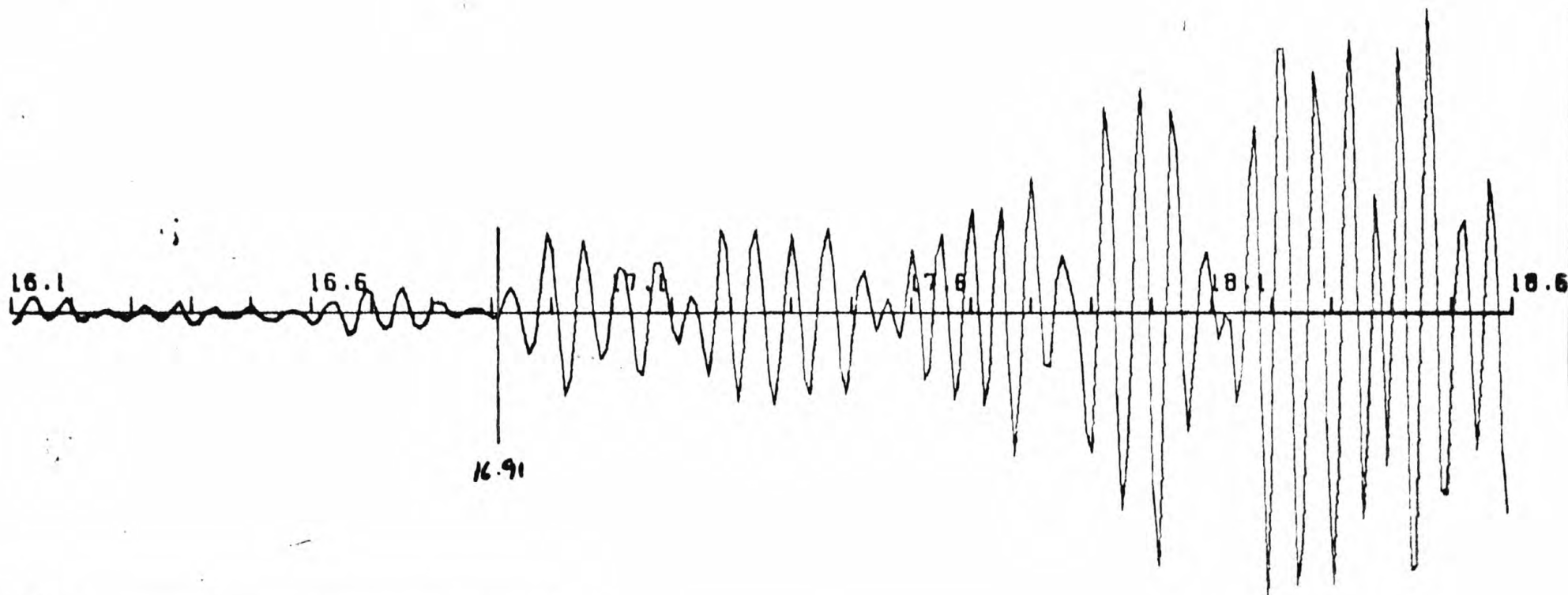
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 2

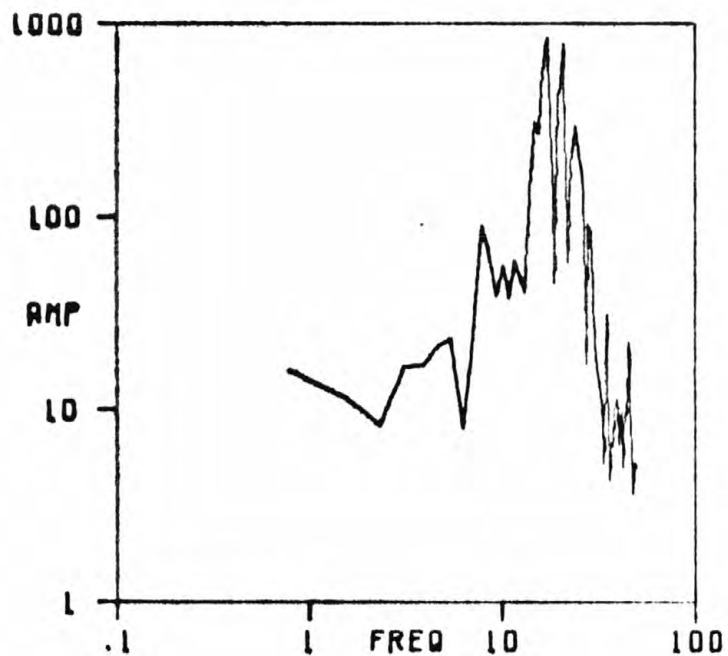
RECORDER LOCATION 353

DISTANCE FROM SHOT (KM) = -99.497

TSCALE (CM/SEC) = 10.0



280



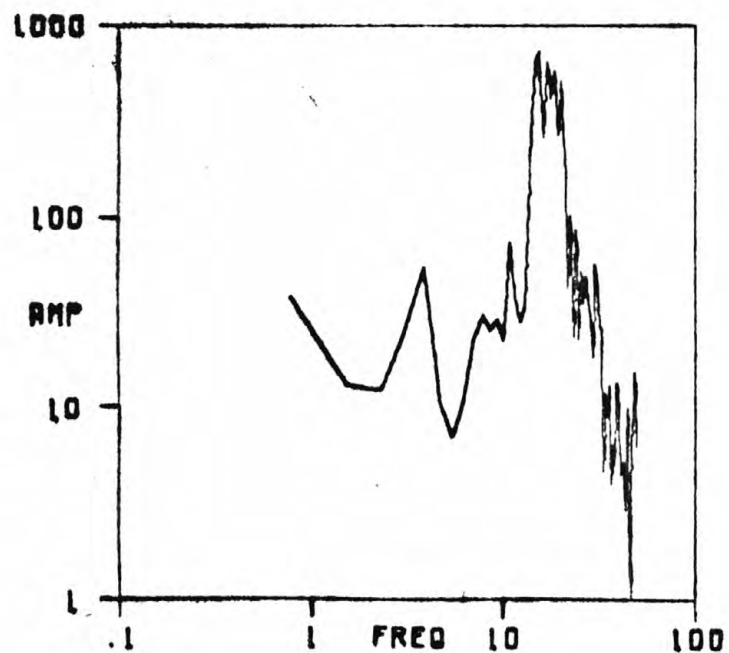
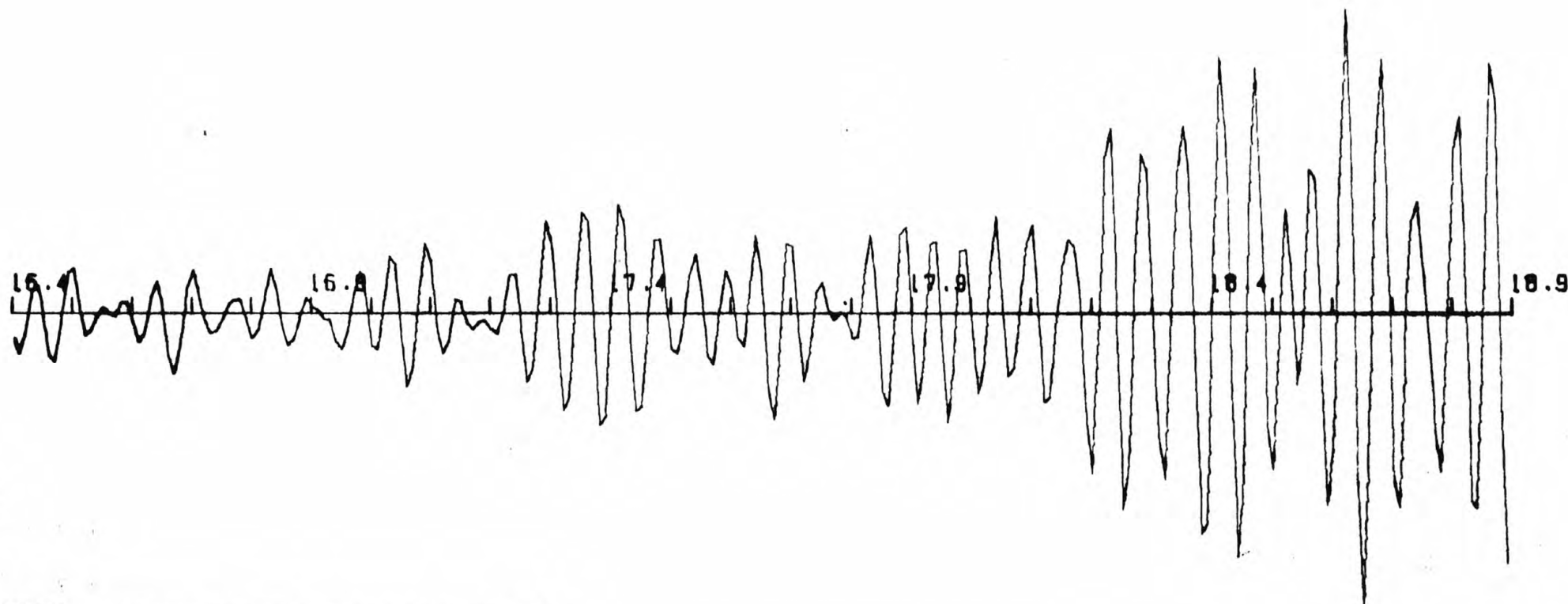
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 2

RECORDER LOCATION 354

DISTANCE FROM SHOT (KM) = -102.204

TS SCALE (CM/SEC) = 10.0



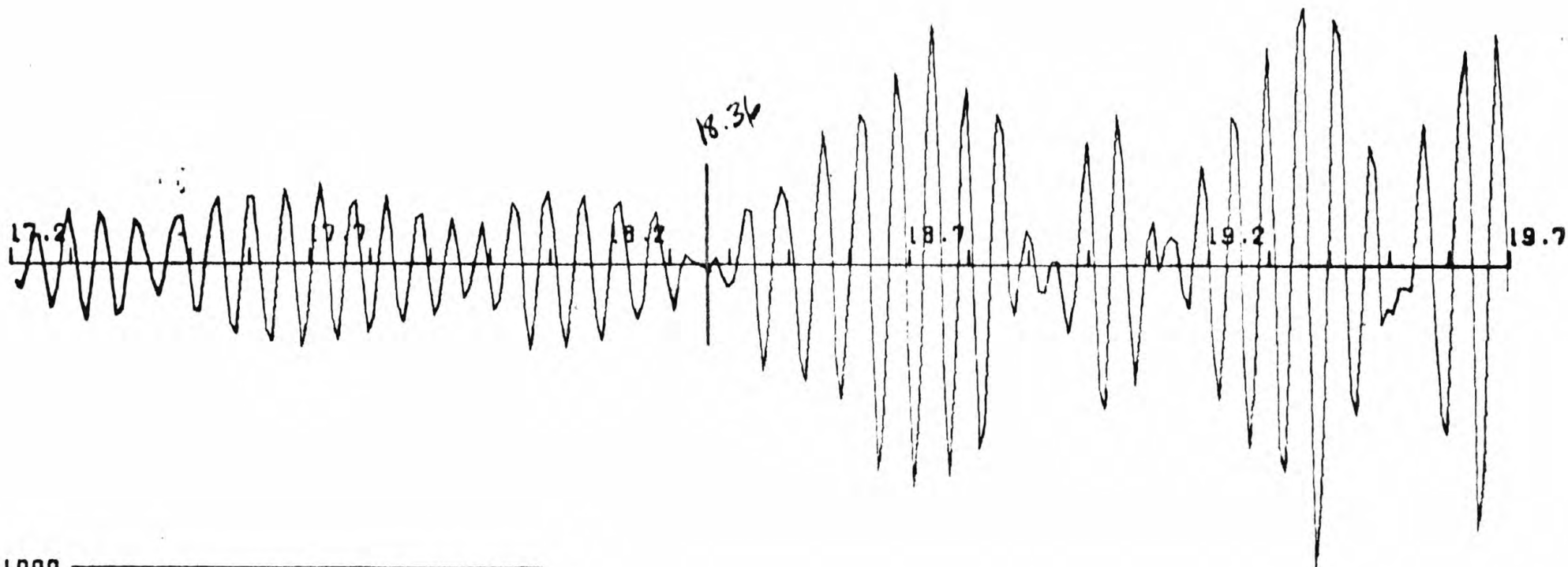
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 2

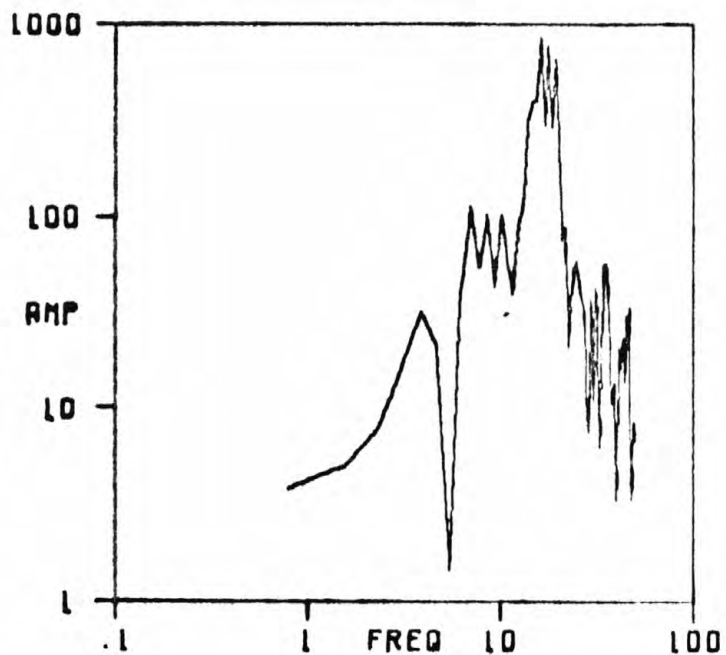
RECORDER LOCATION 355

DISTANCE FROM SHOT (KM) = -104.307

TSCALE (CM/SEC) = 10.0



282



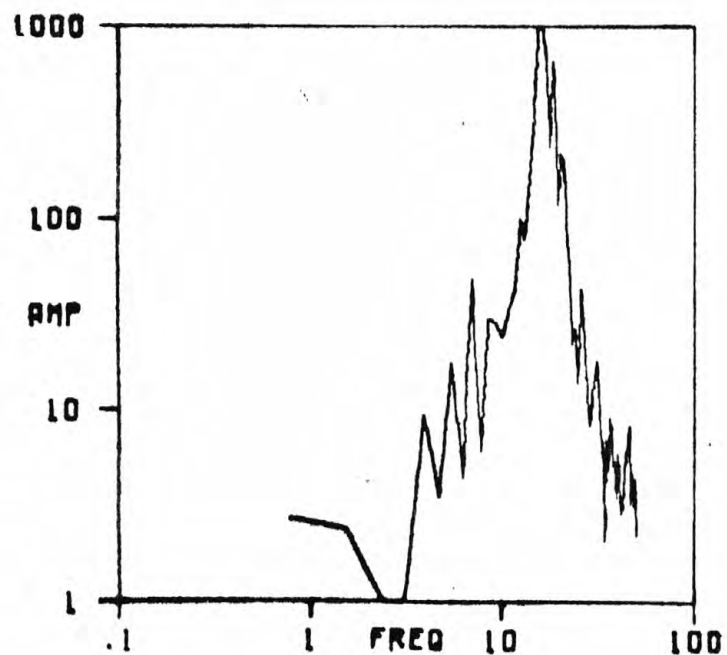
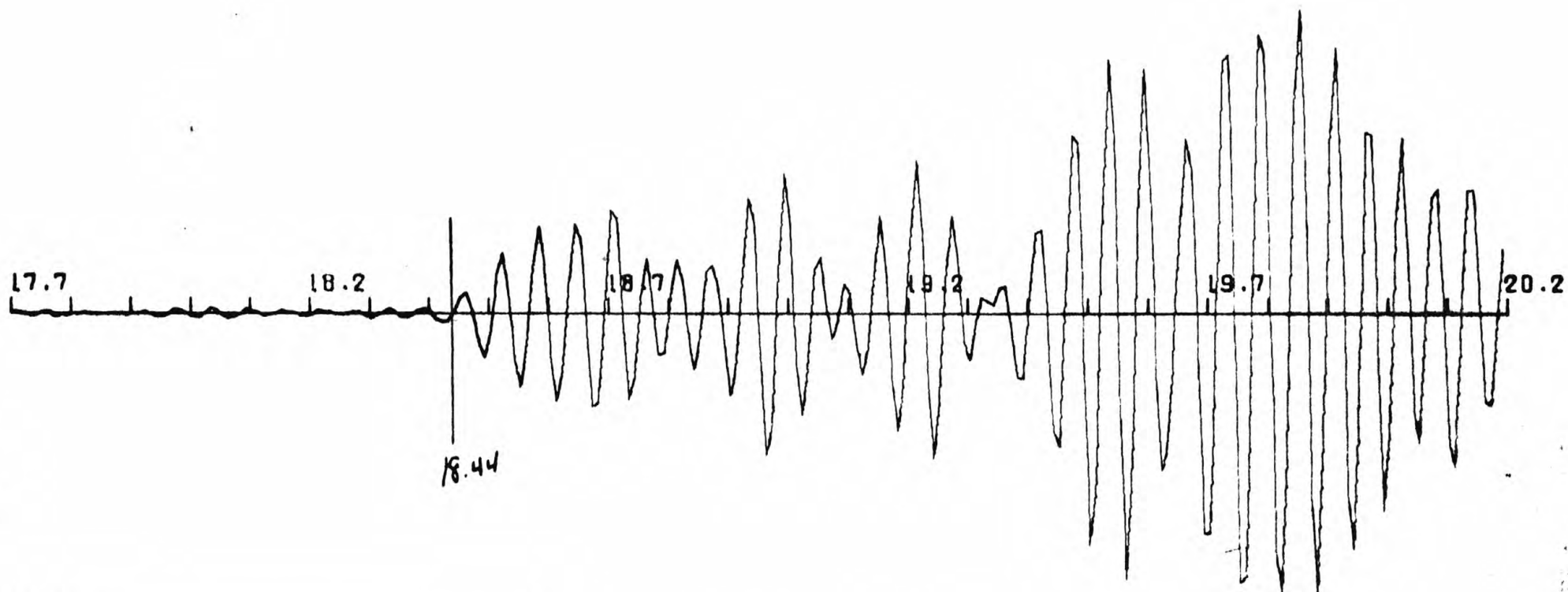
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 2

RECORDER LOCATION 357

DISTANCE FROM SHOT (KM) = -108.892

TSCALE (CM/SEC) = 10.0



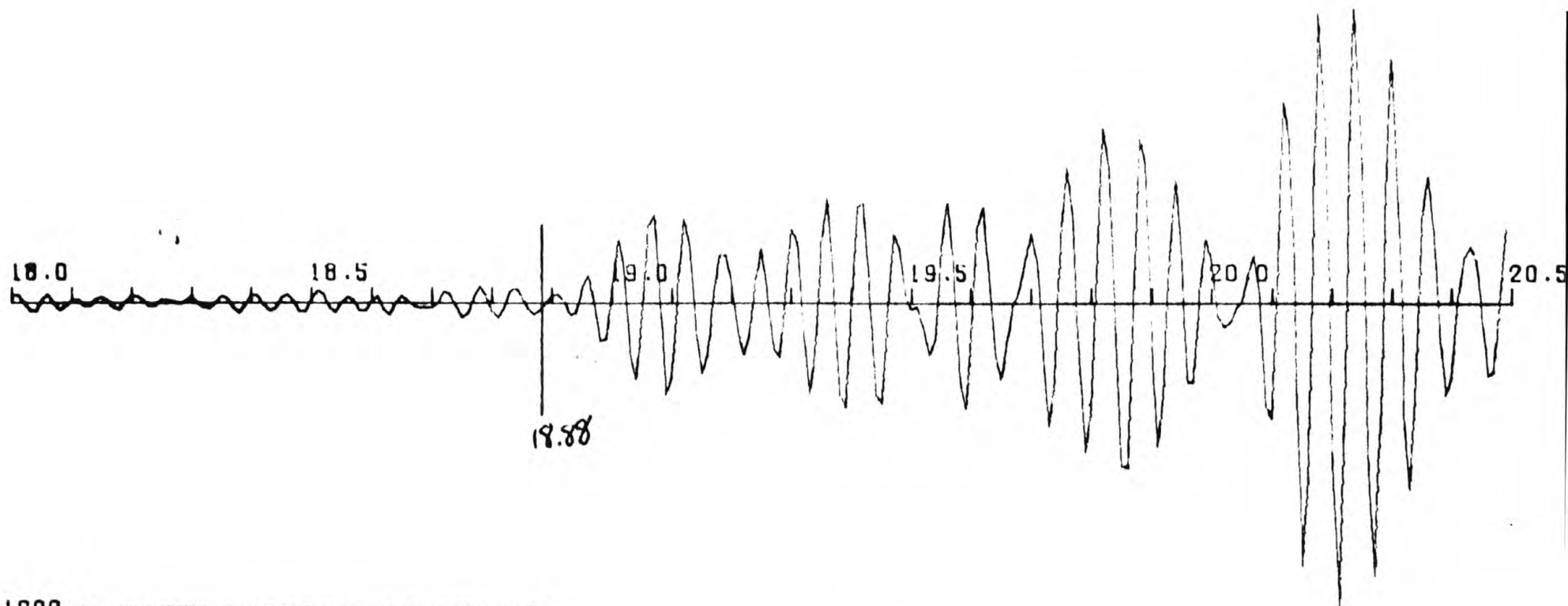
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 2

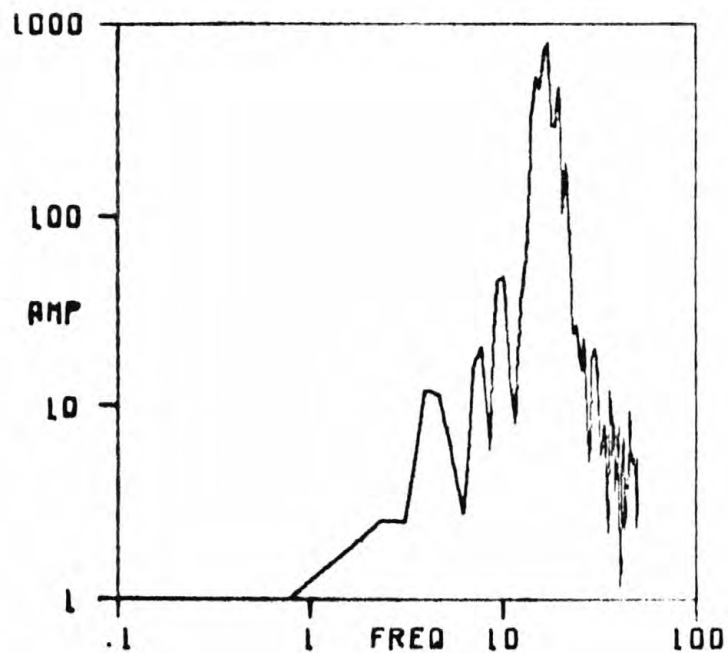
RECORDER LOCATION 358

DISTANCE FROM SHOT (KM) = -112.112

TSCALE (CM/SEC) = 10.0



284



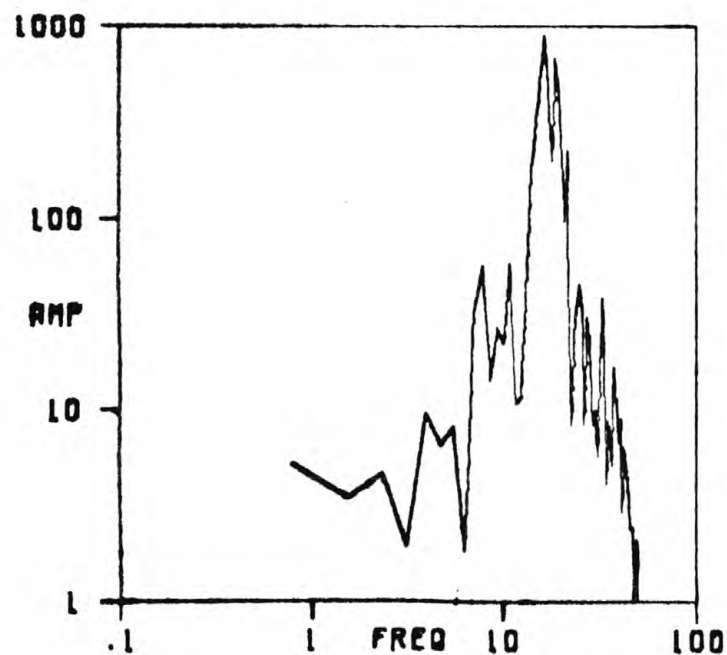
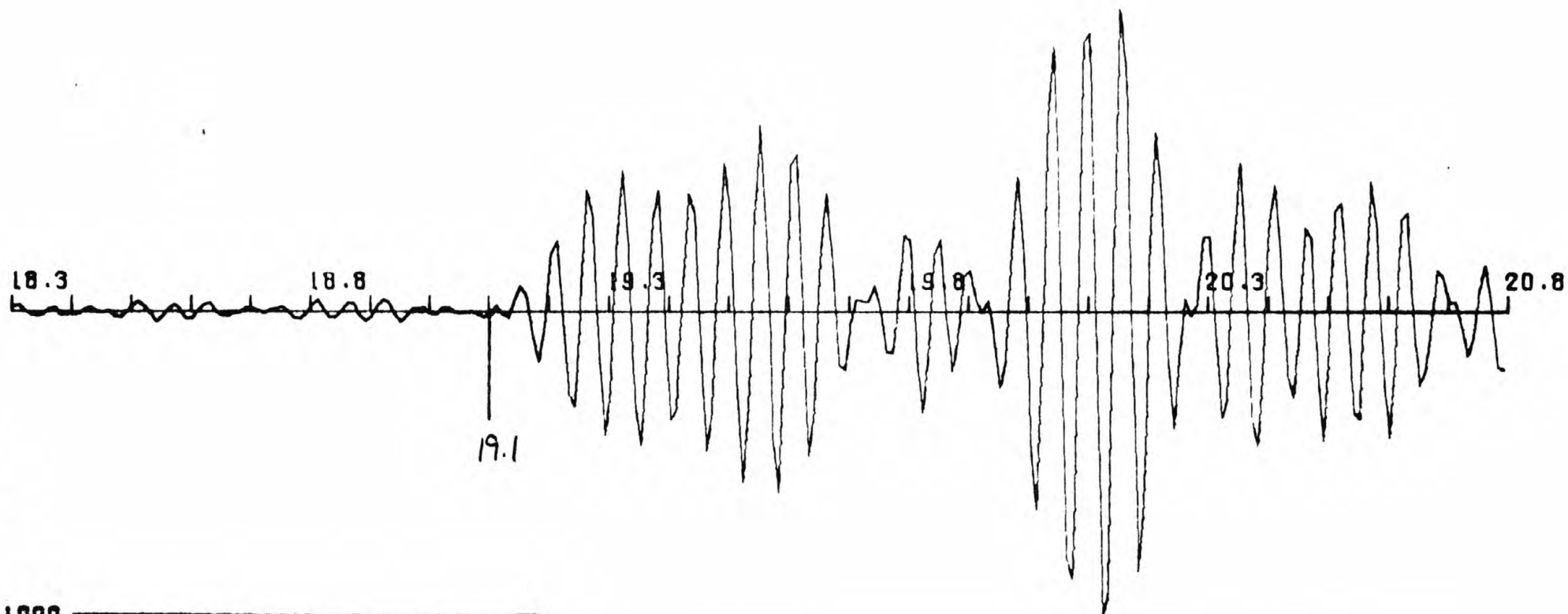
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 2

RECORDER LOCATION 359

DISTANCE FROM SHOT (KM) = -113.713

TSCALE (CM/SEC) = 10.0



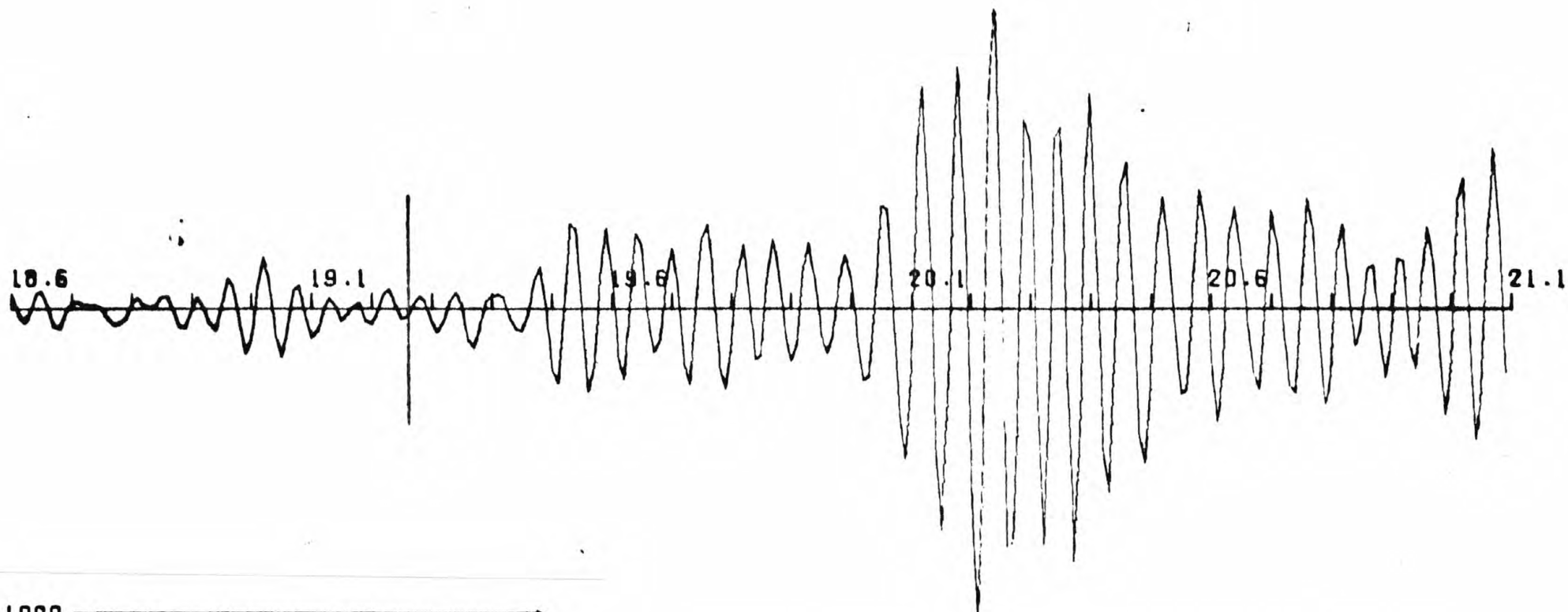
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 2

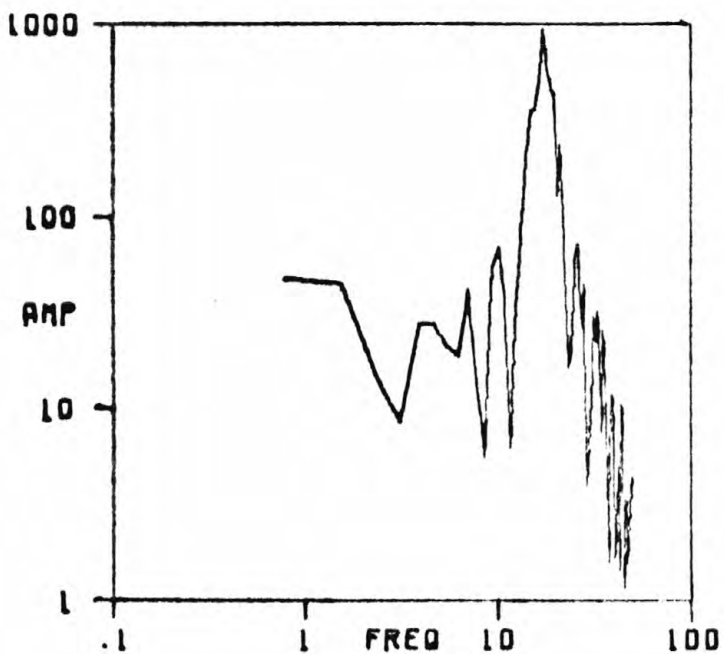
RECORDER LOCATION 360

DISTANCE FROM SHOT (KM) = -115.647

TSCALE (CM/SEC) = 10.0



2%



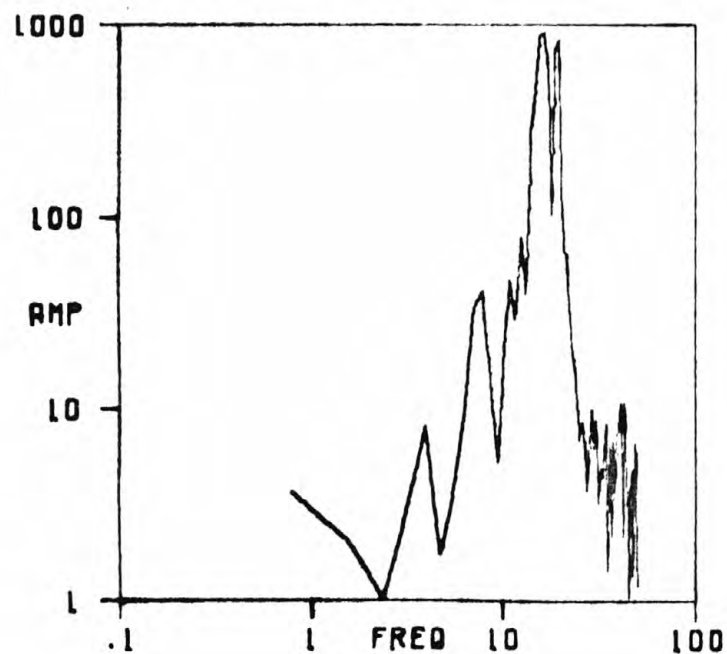
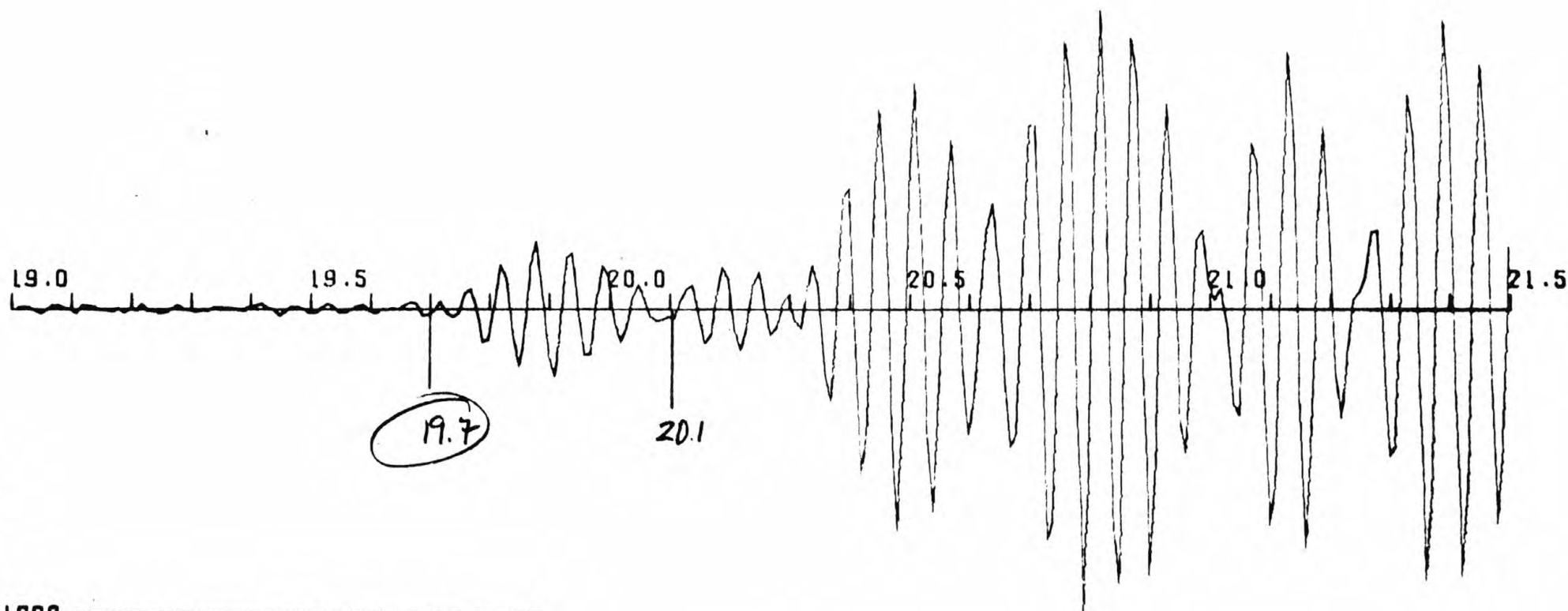
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 2

RECORDER LOCATION 361

DISTANCE FROM SHOT (KM) = -117.312

TSCALE (CM/SEC) = 10.0



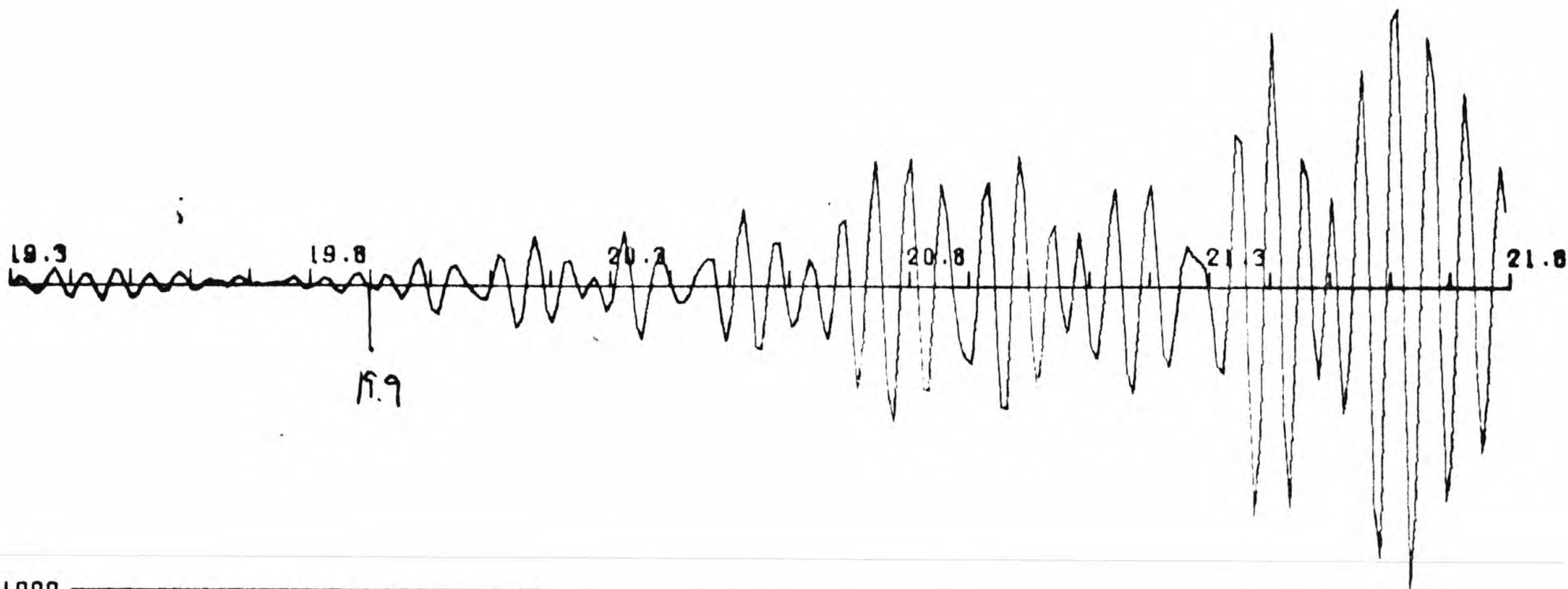
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 2

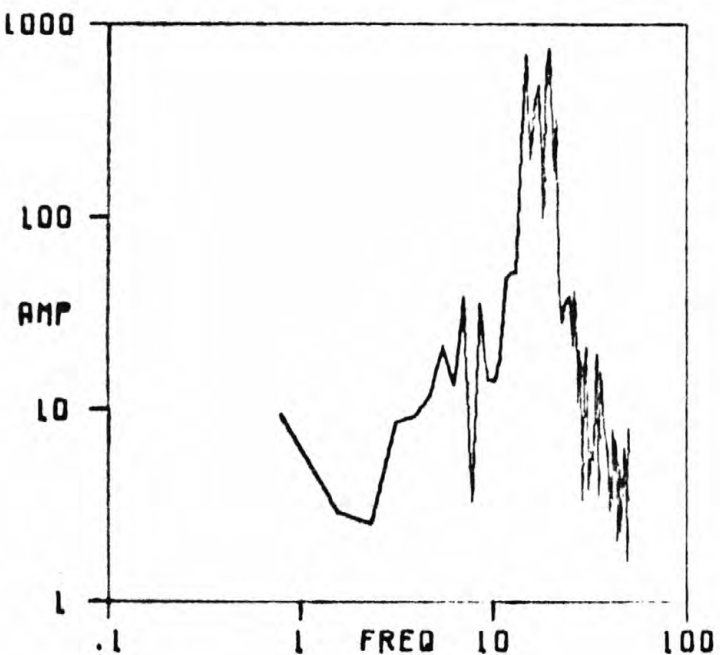
RECORDER LOCATION 362

DISTANCE FROM SHOT (KM) = -119.638

TSCALE (CM/SEC) = 10.0



238



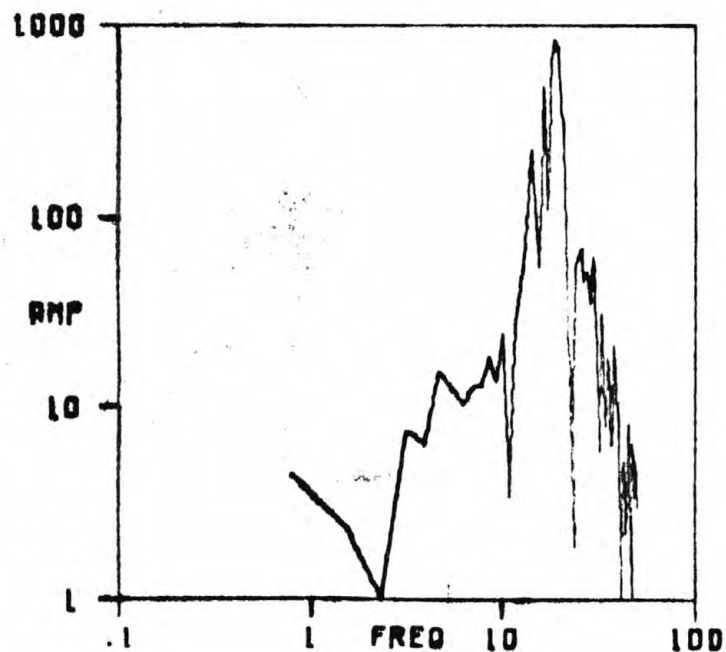
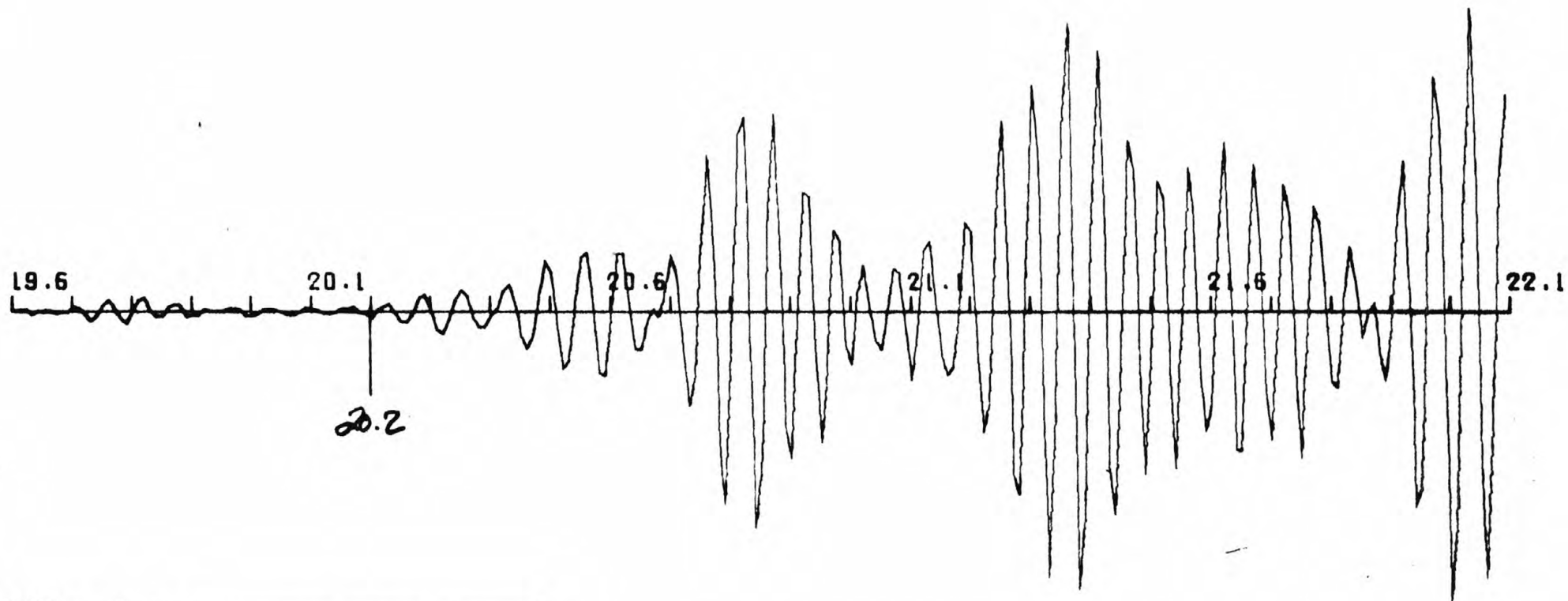
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 2

RECORDER LOCATION 363

DISTANCE FROM SHOT (KM) = -121.651

TSCALE (CM/SEC) = 10.0



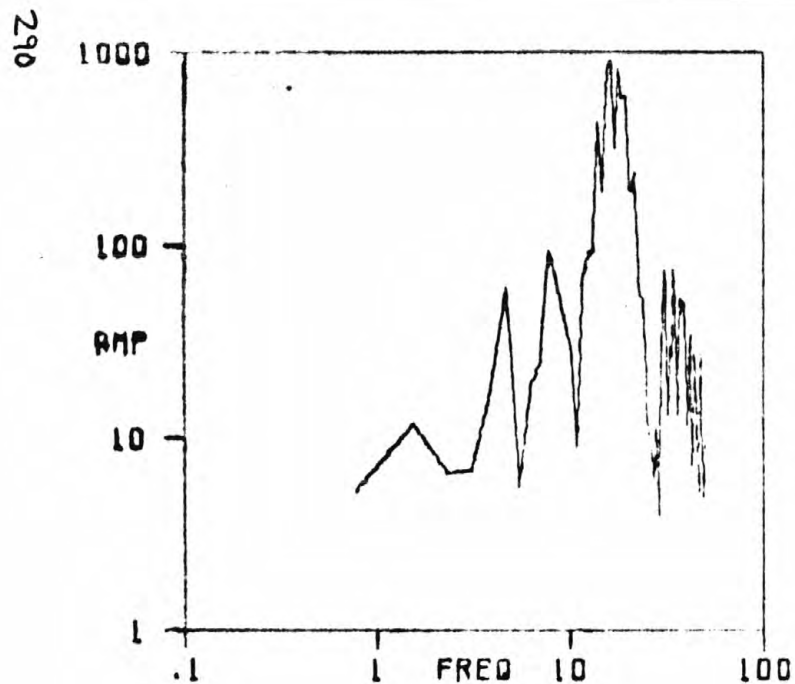
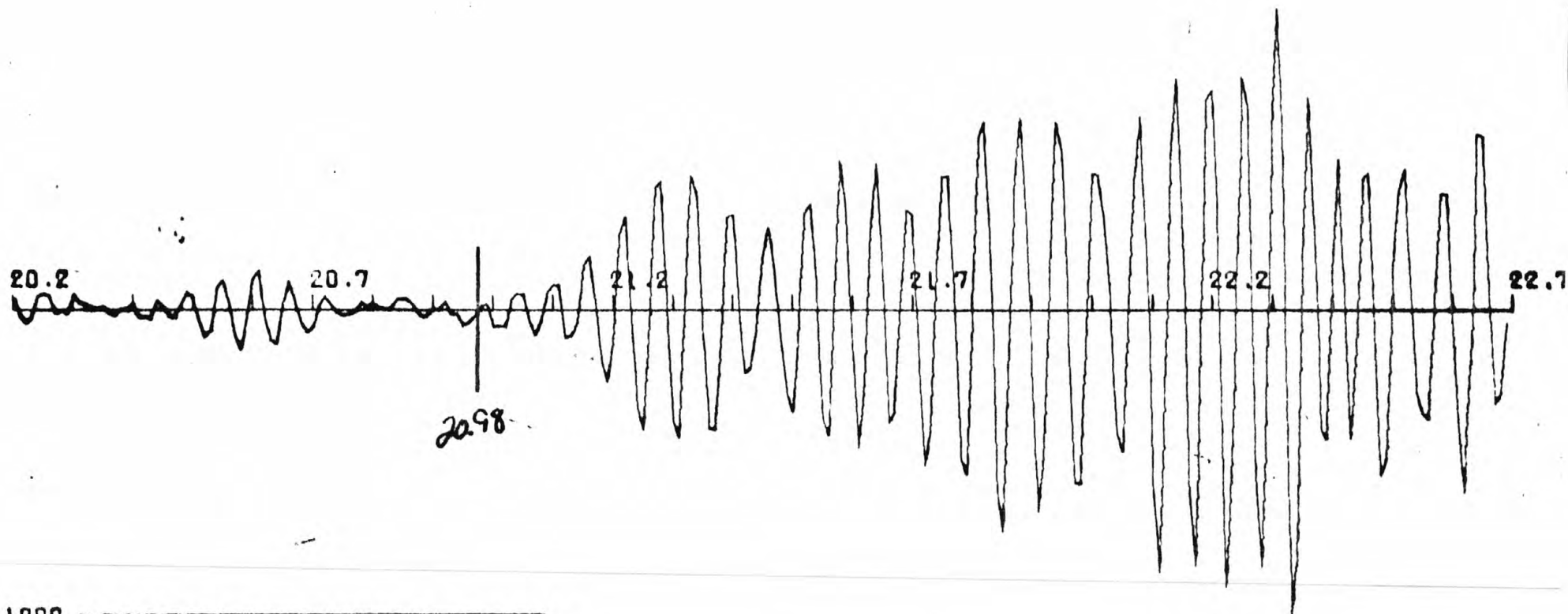
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 2

RECORDER LOCATION 364

DISTANCE FROM SHOT (KM) = -123.507

TS SCALE (CM/SEC) = 10.0



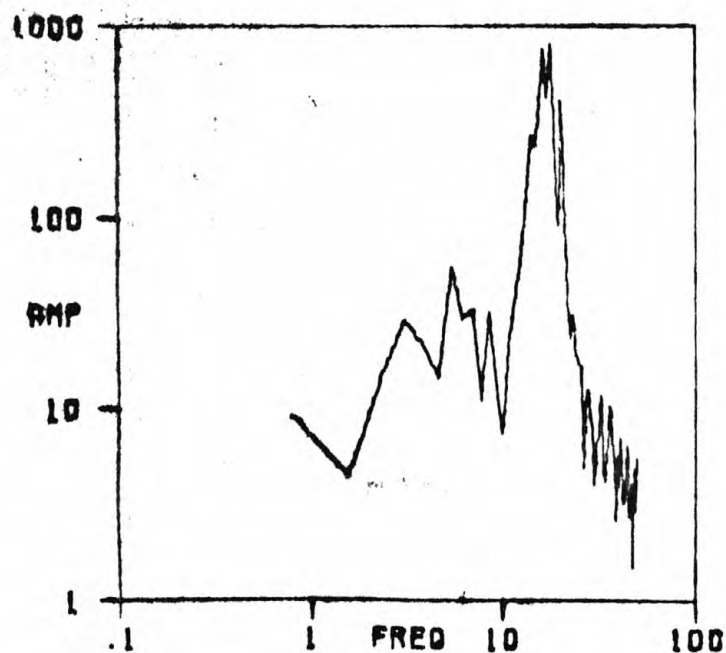
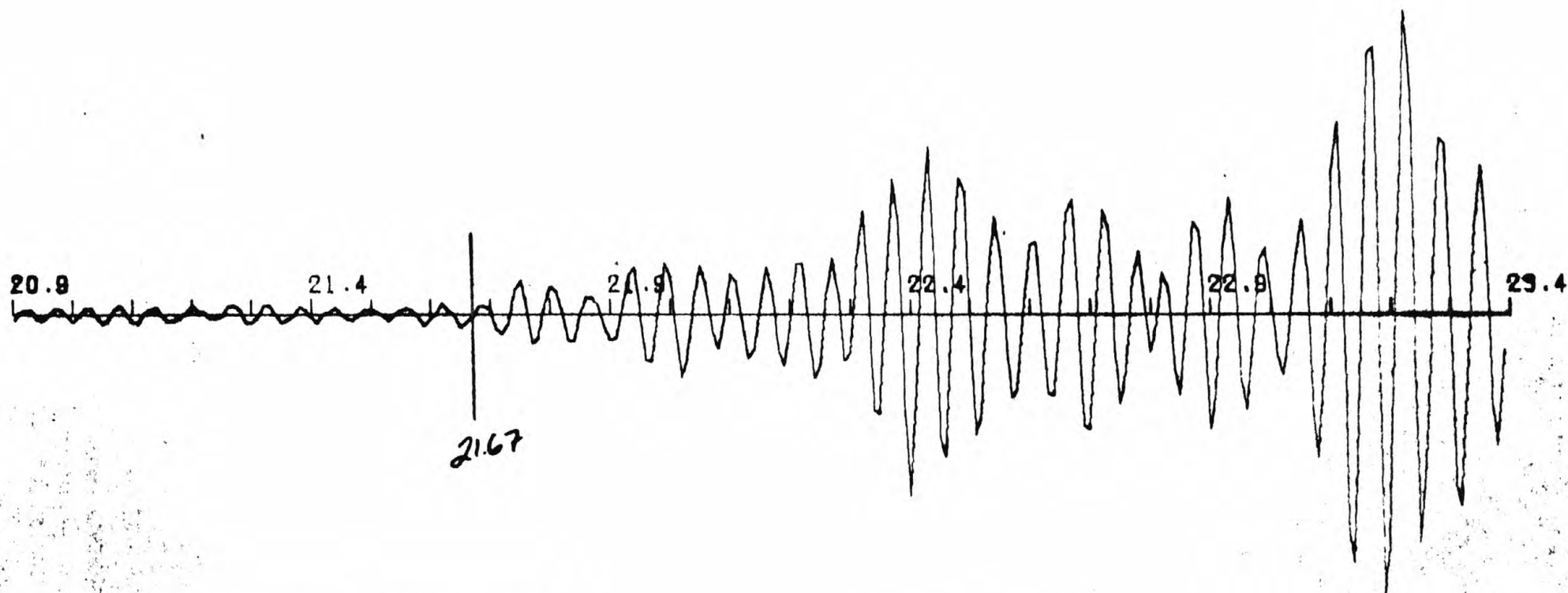
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 2

RECORDER LOCATION 374

DISTANCE FROM SHOT (KM) = -127.038

TSCALE (CM/SEC) = 10.0



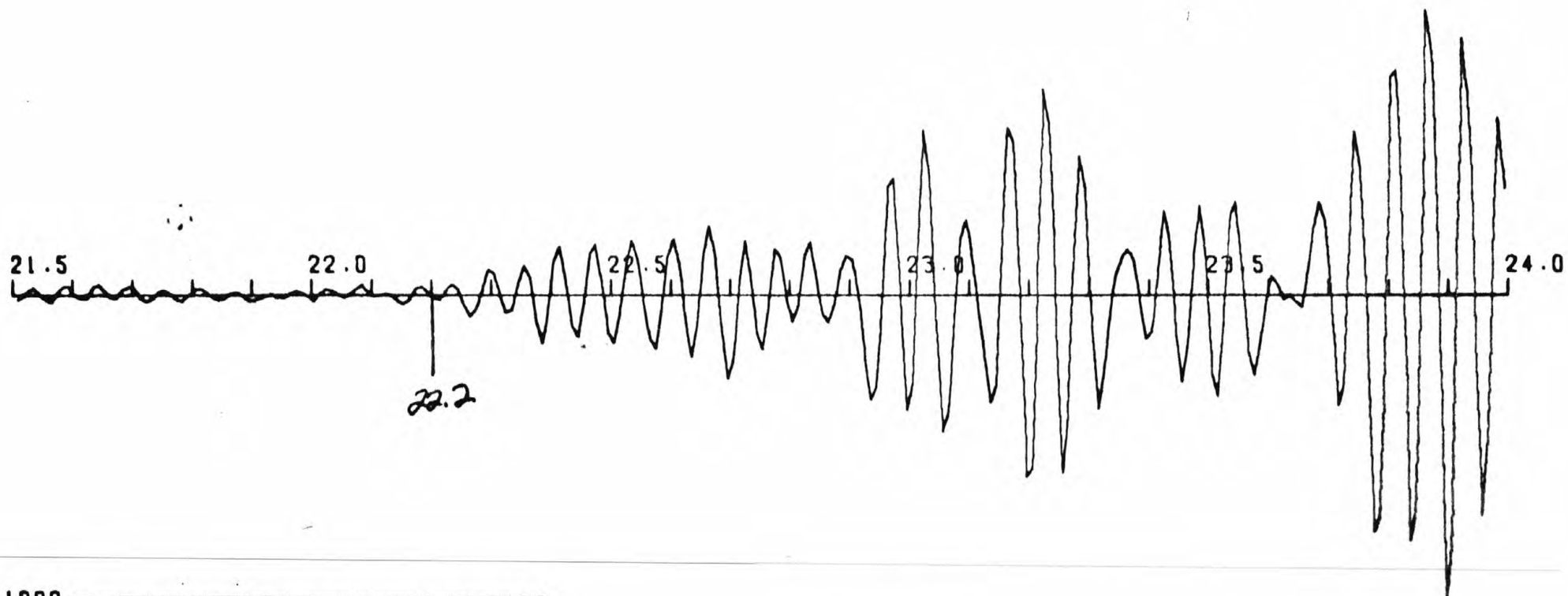
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 2

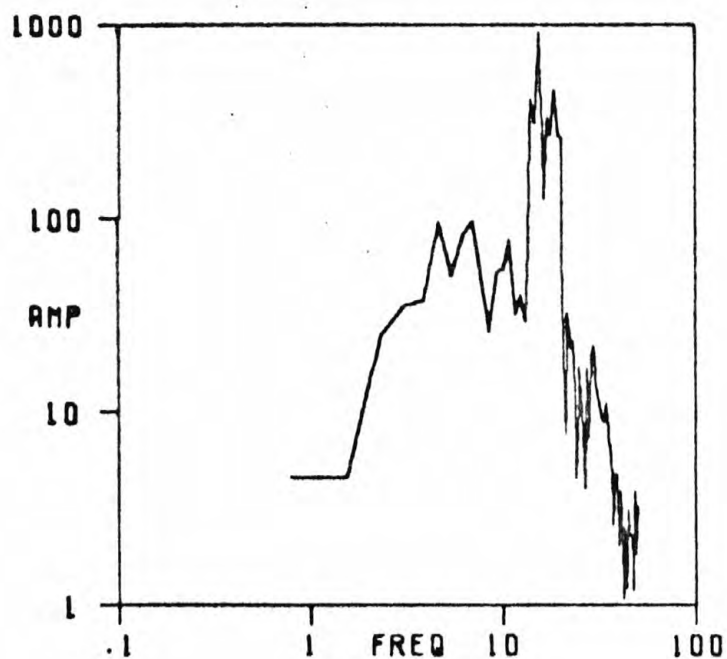
RECORDER LOCATION 376

DISTANCE FROM SHOT (KM) = -191.055

TSCALE (CM/SEC) = 10.0



292



SAUDI REFRACTION PROFILE 15.20 BP

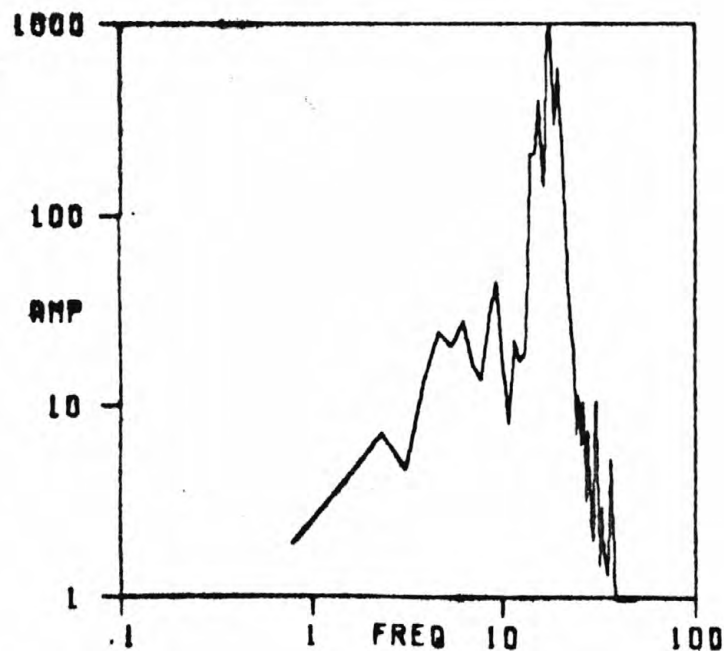
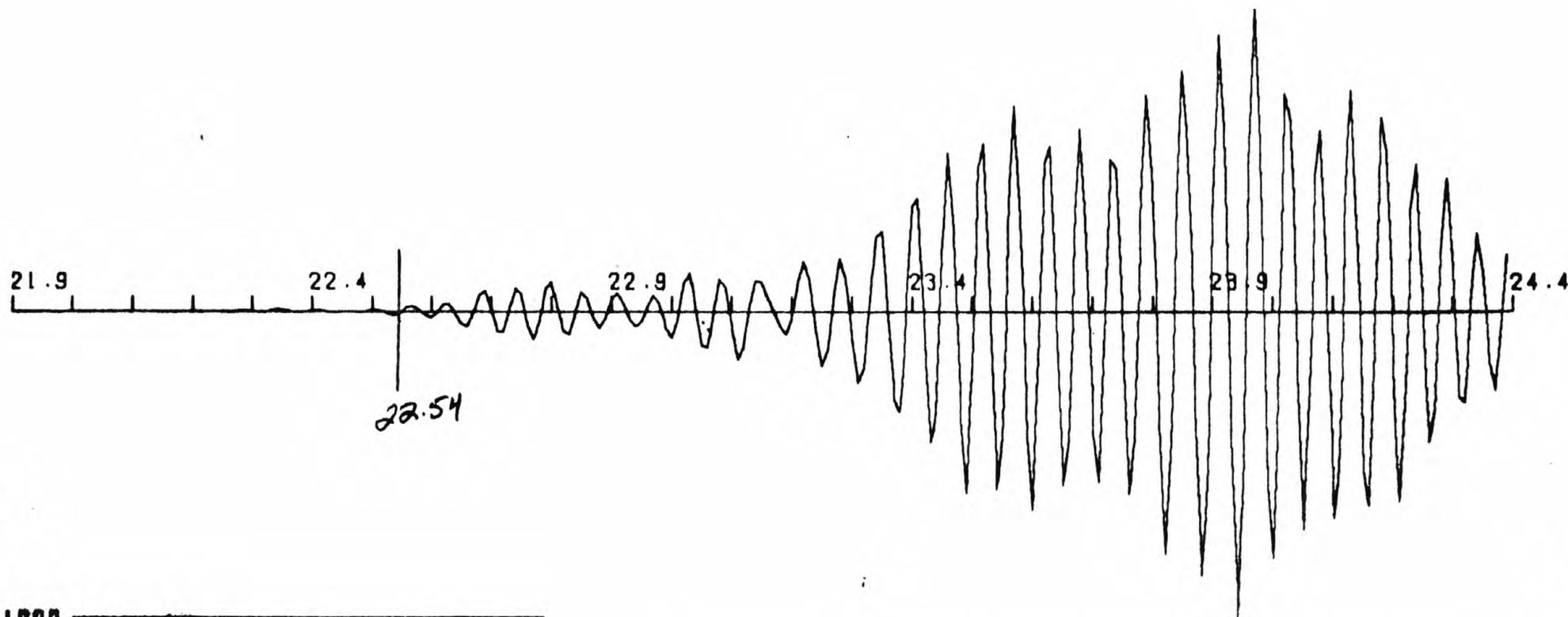
SHOT POINT 2

RECORDER LOCATION 378

DISTANCE FROM SHOT (KM) = -134.806

TSCALE (CM/SEC) = 10.0

293



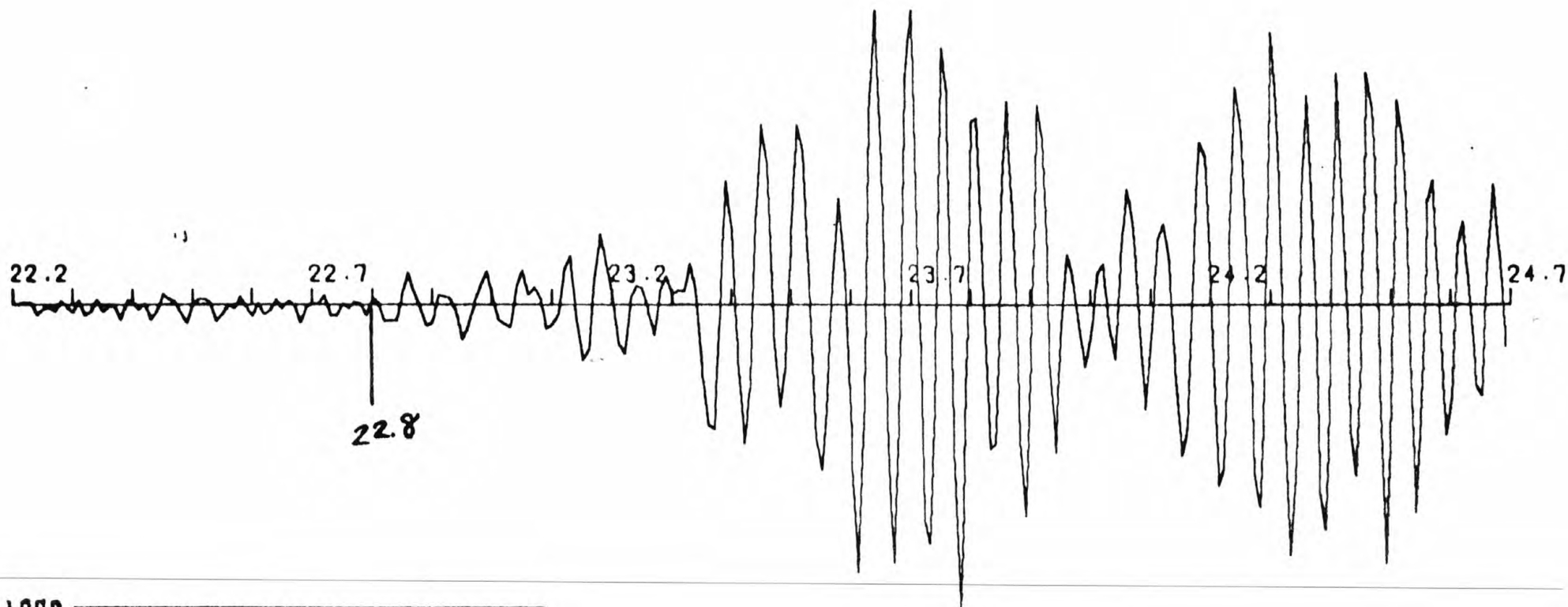
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 2

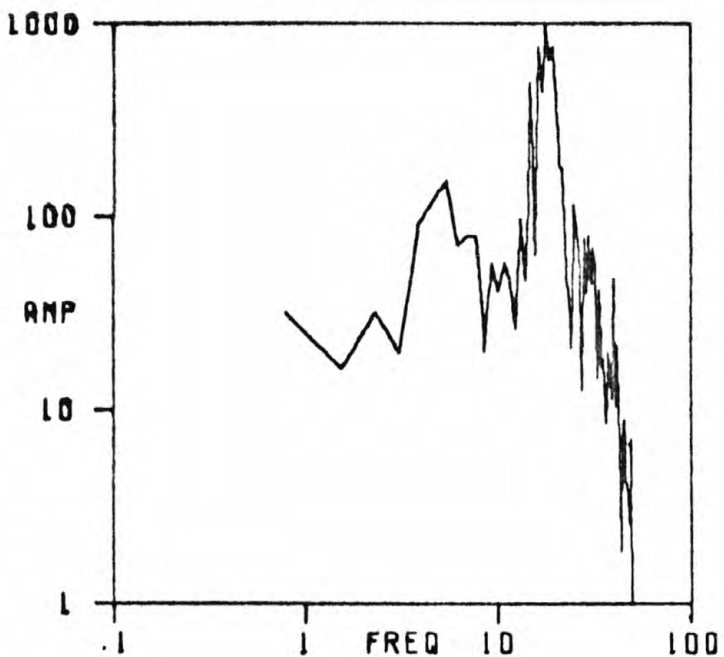
RECORDER LOCATION 379

DISTANCE FROM SHOT (KM) = -137.177

TS SCALE (CM/SEC) = 10.0



294



SAUDI REFRACTION PROFILE 15.20 BP

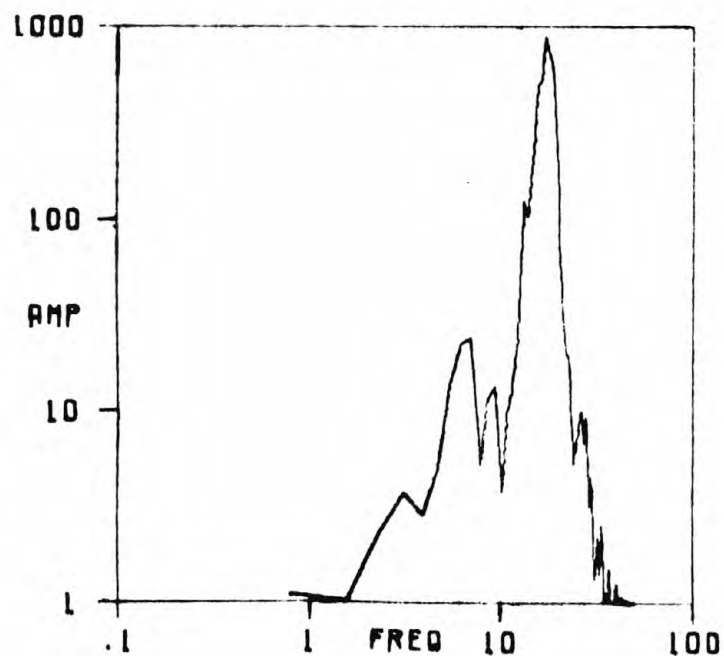
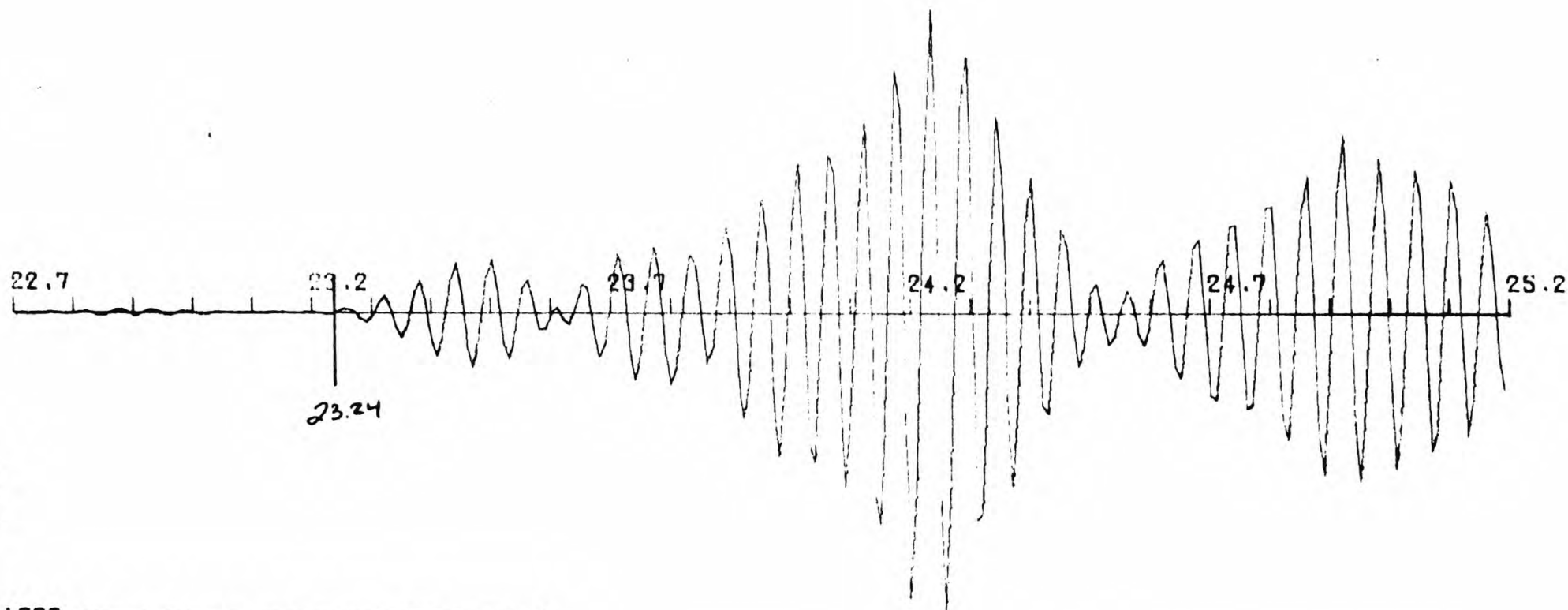
SHOT POINT 2

RECORDER LOCATION 380

DISTANCE FROM SHOT (KM) = -138.924

TSCALE (CM/SEC) = 10.0

295



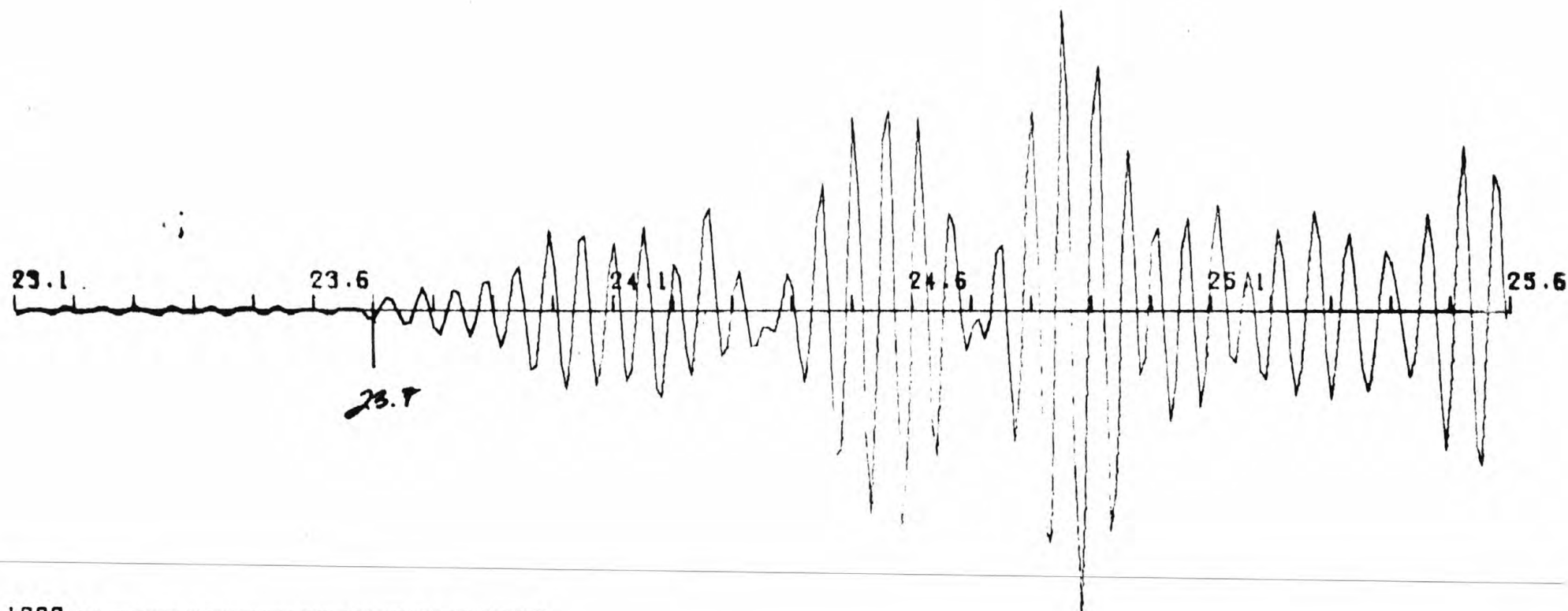
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 2

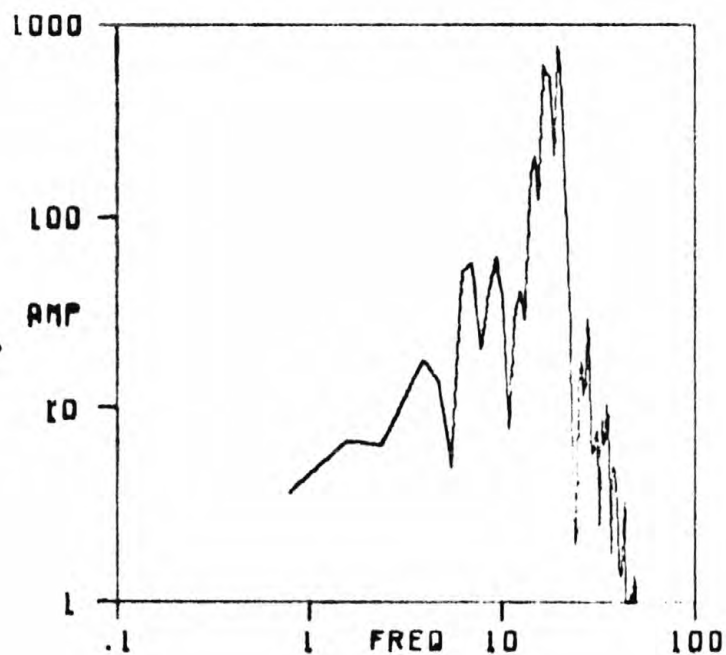
RECORDER LOCATION 381

DISTANCE FROM SHOT (KM) = -141.667

TSCALE (CM/SEC) = 10.0



296



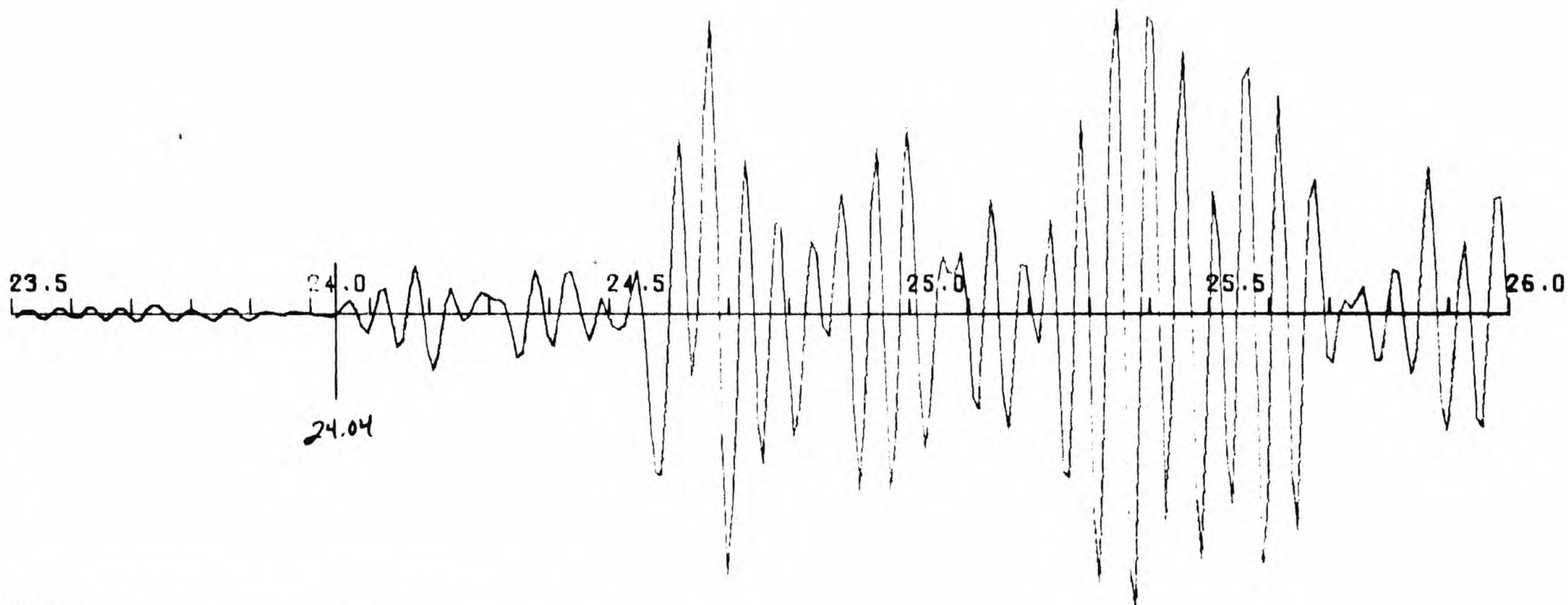
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 2

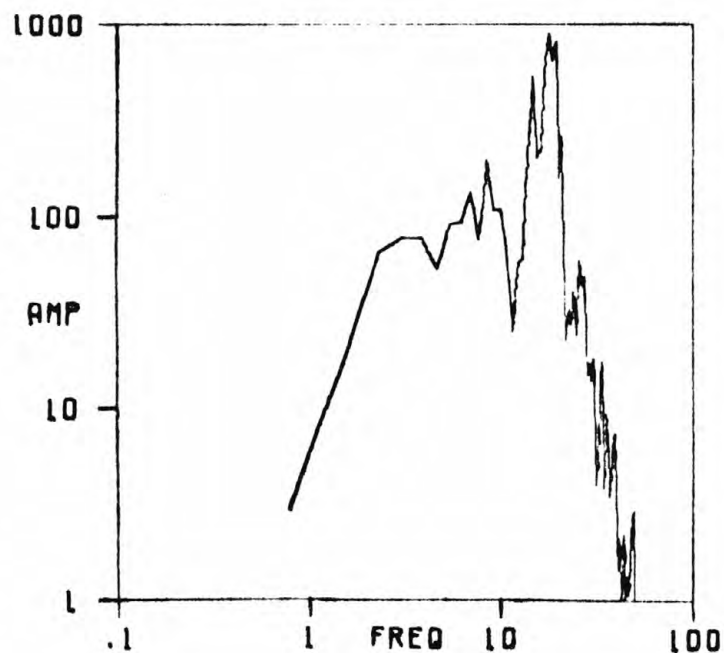
RECORDER LOCATION 383

DISTANCE FROM SHOT (KM) = -144.326

TSCALE (CM/SEC) = 10.0



297



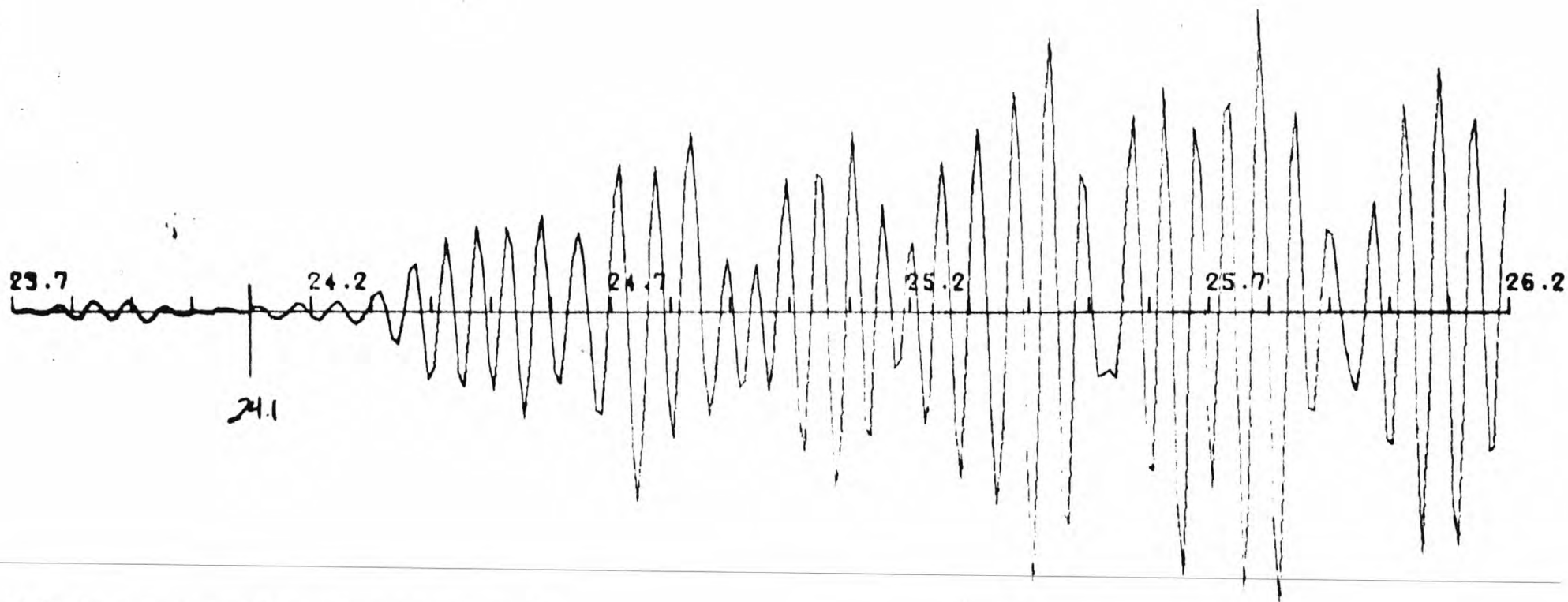
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 2

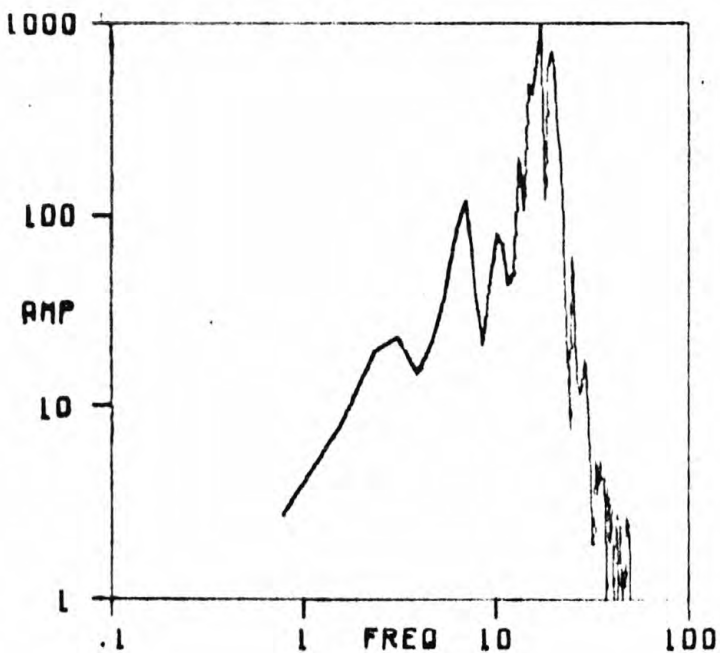
RECORDER LOCATION 384

DISTANCE FROM SHOT (KM) = -146.870

TSCALE (CM/SEC) = 10.0



298



SAUDI REFRACTION PROFILE 15.20 BP

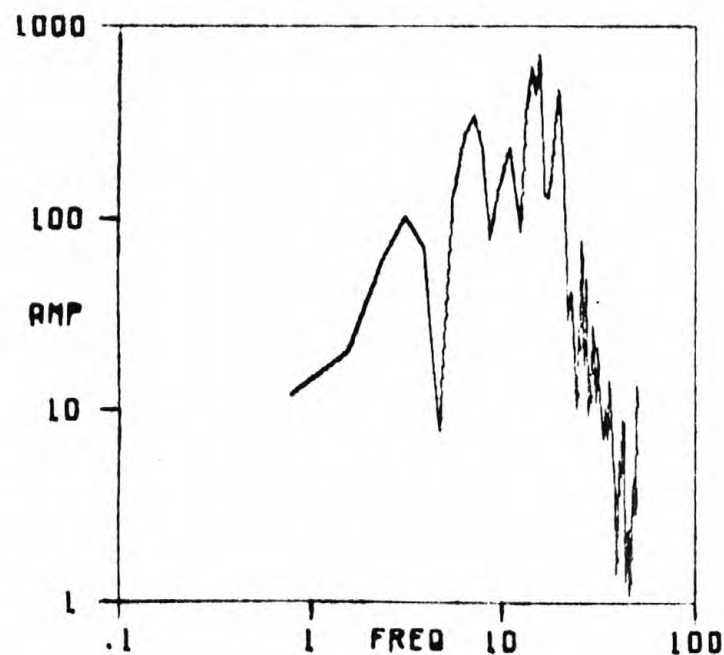
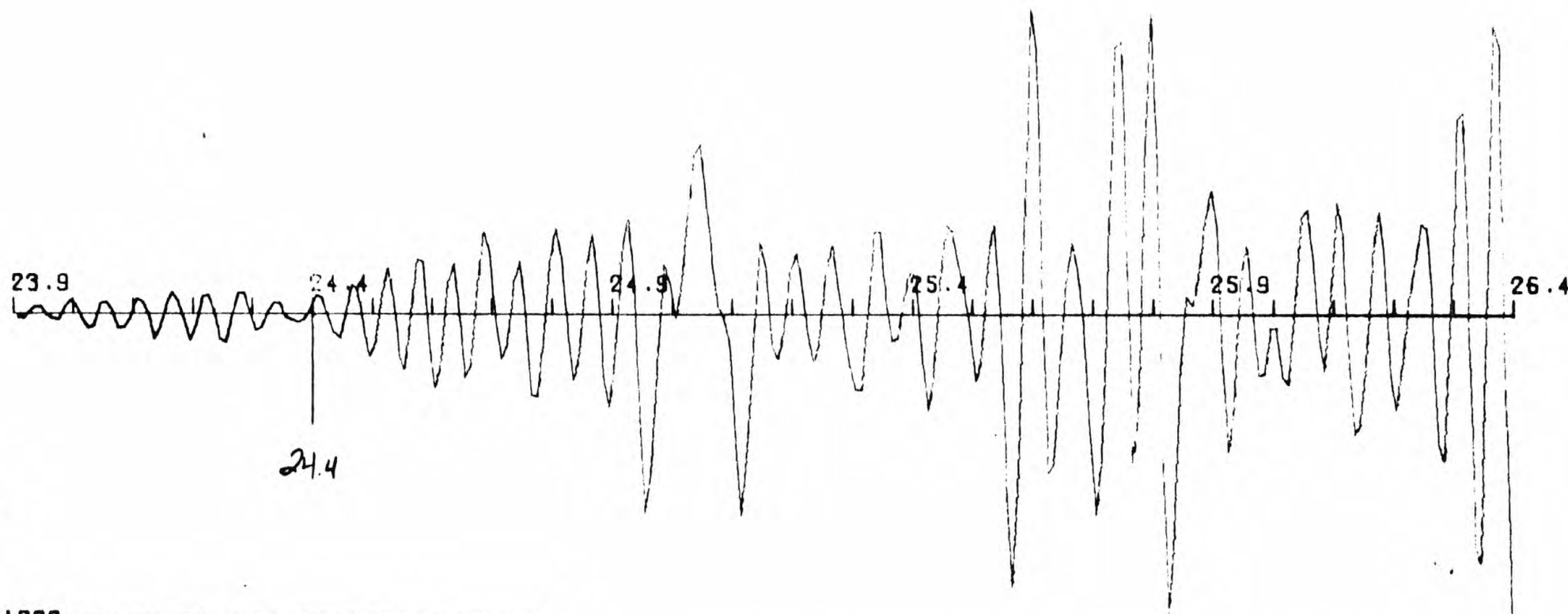
SHOT POINT 2

RECORDER LOCATION 385

DISTANCE FROM SHOT (KM) = -147.945

TSCALE (CM/SEC) = 10.0

299



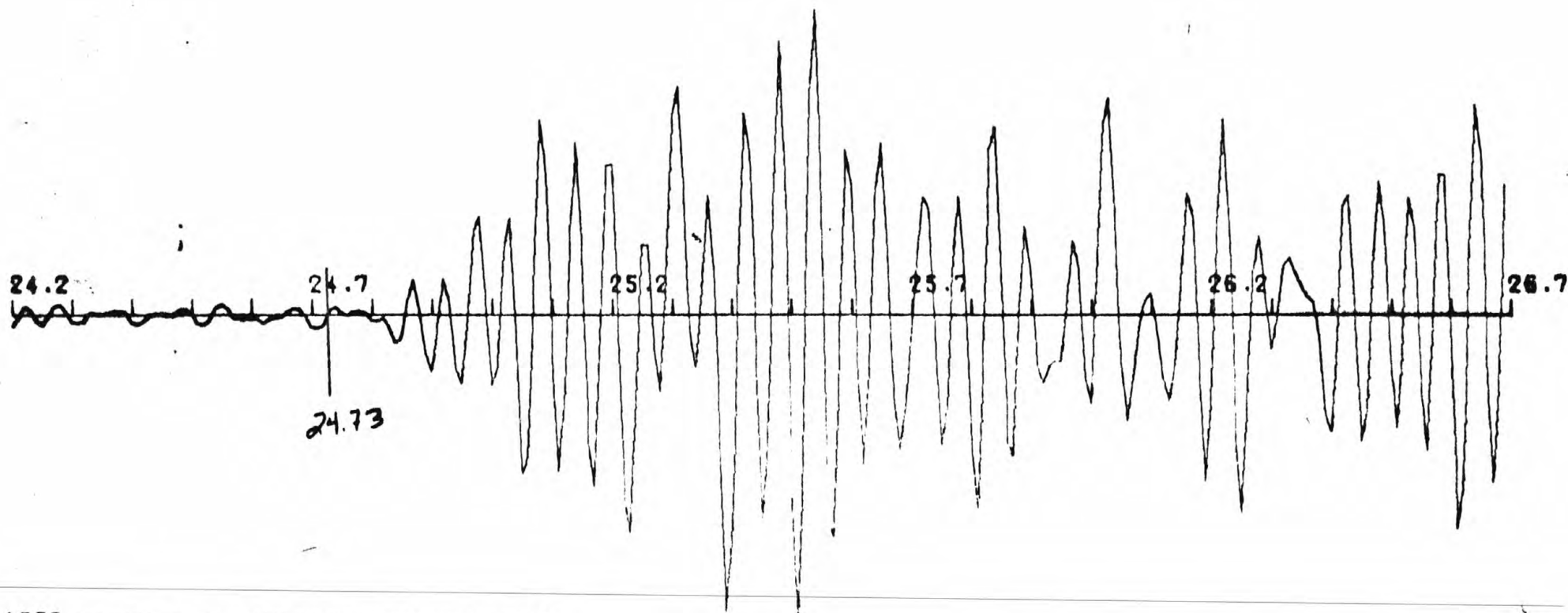
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 2

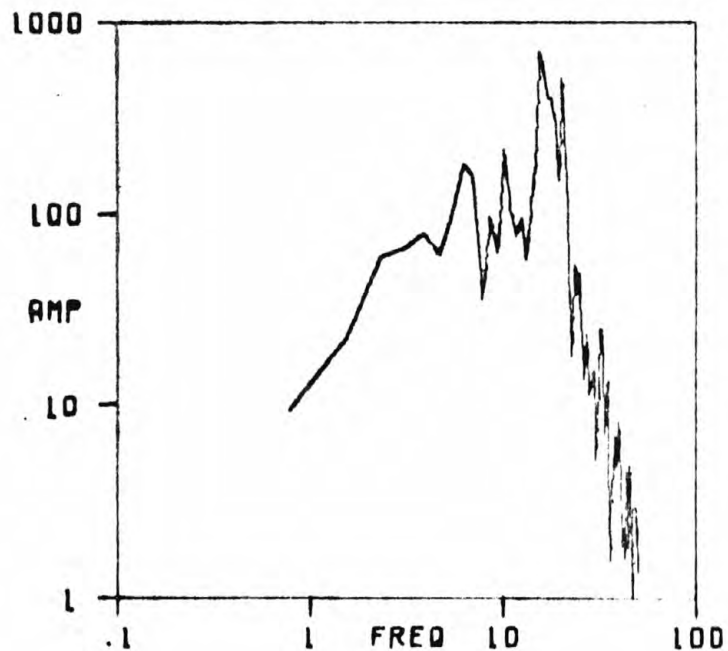
RECORDER LOCATION 386

DISTANCE FROM SHOT (KM) = -149.267

TSCALE (CM/SEC) = 10.0



300



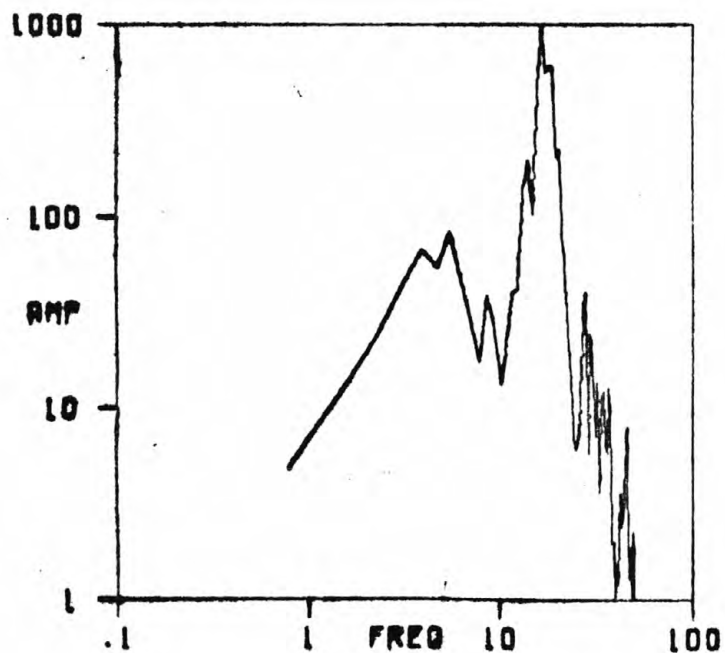
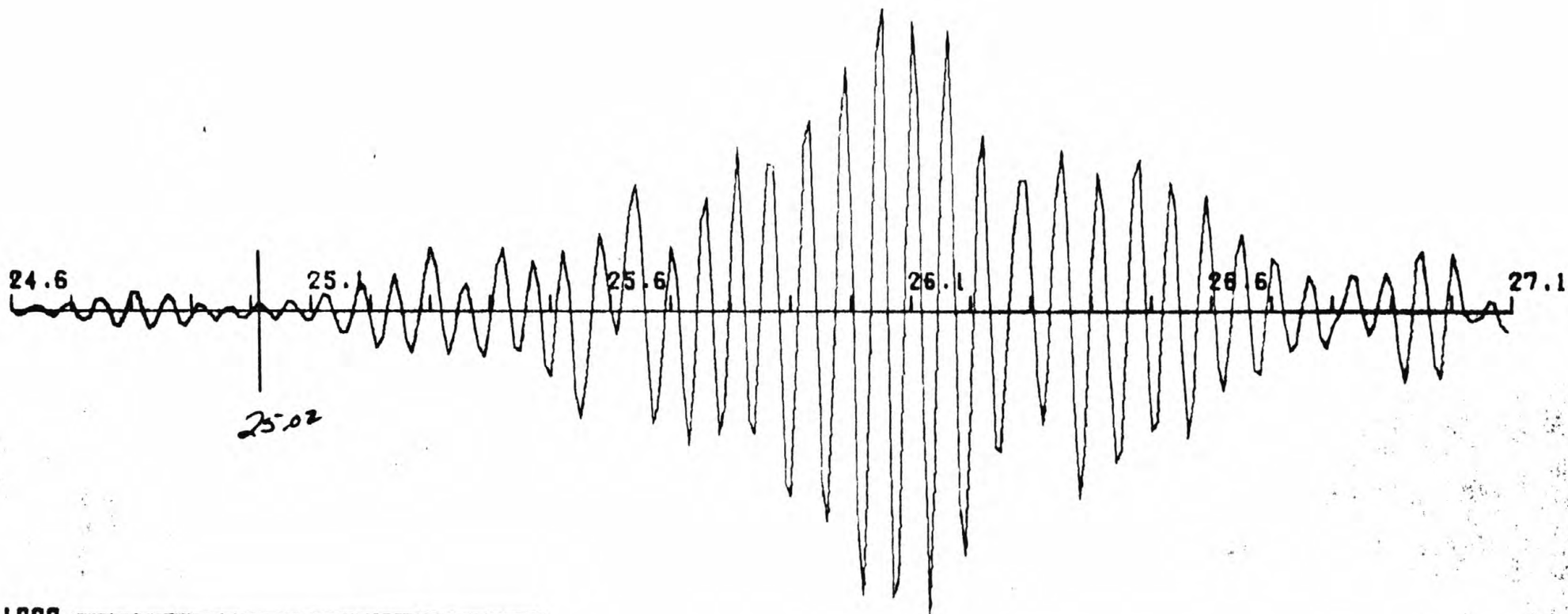
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 2

RECORDER LOCATION 387

DISTANCE FROM SHOT (KM) = -151.026

TSCALE (CM/SEC) = 10.0



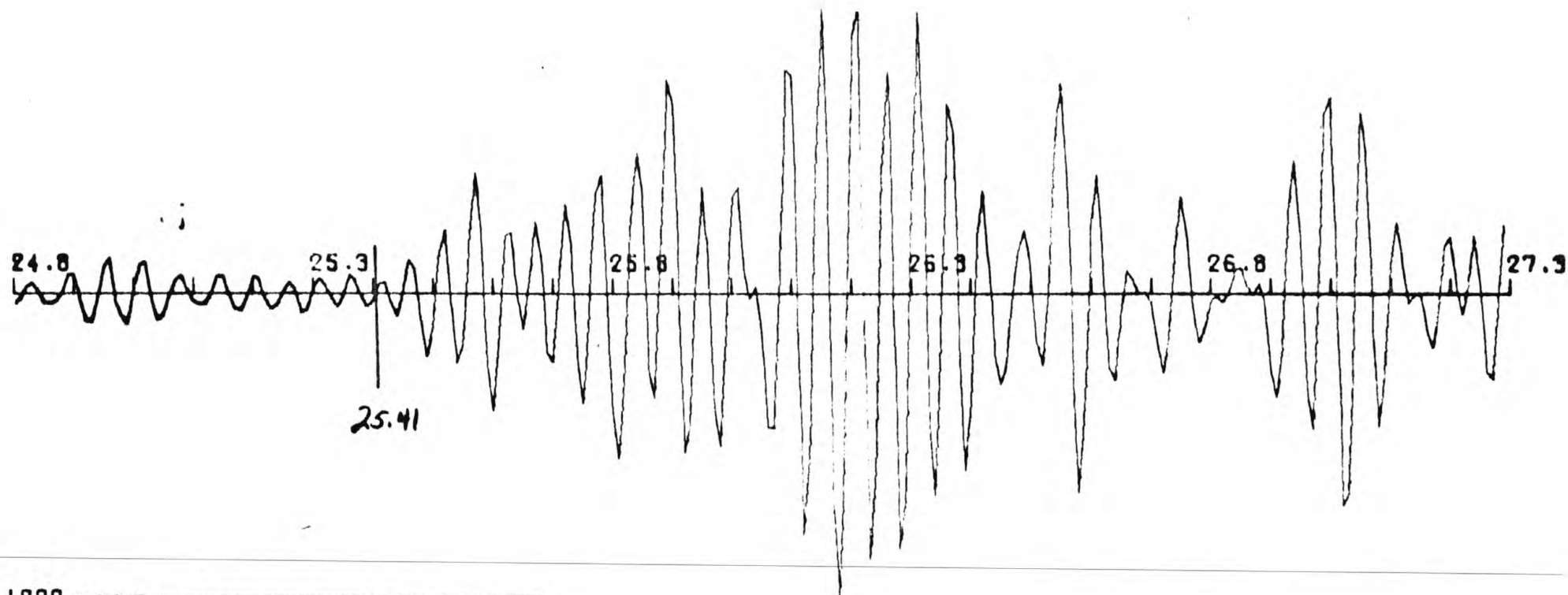
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 2

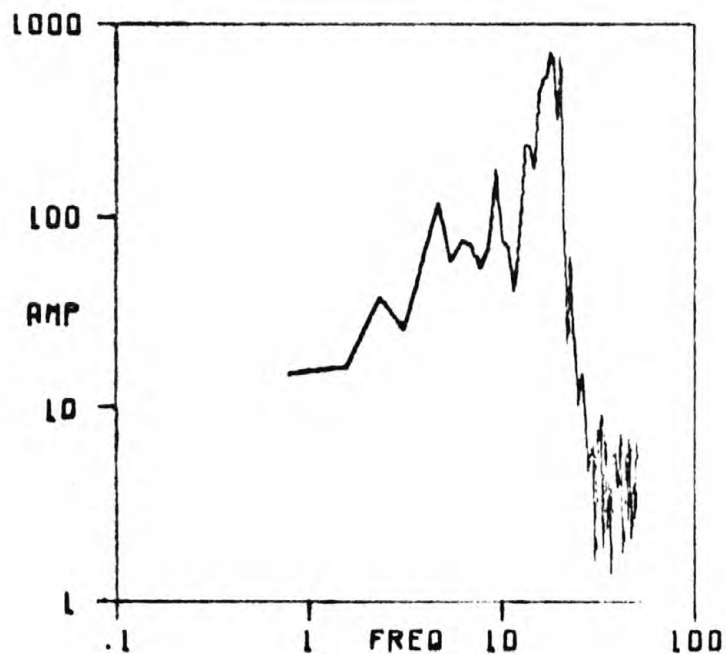
RECORDER LOCATION 388

DISTANCE FROM SHOT (KM) = -153.018

TSCALE (CM/SEC) = 10.0



302



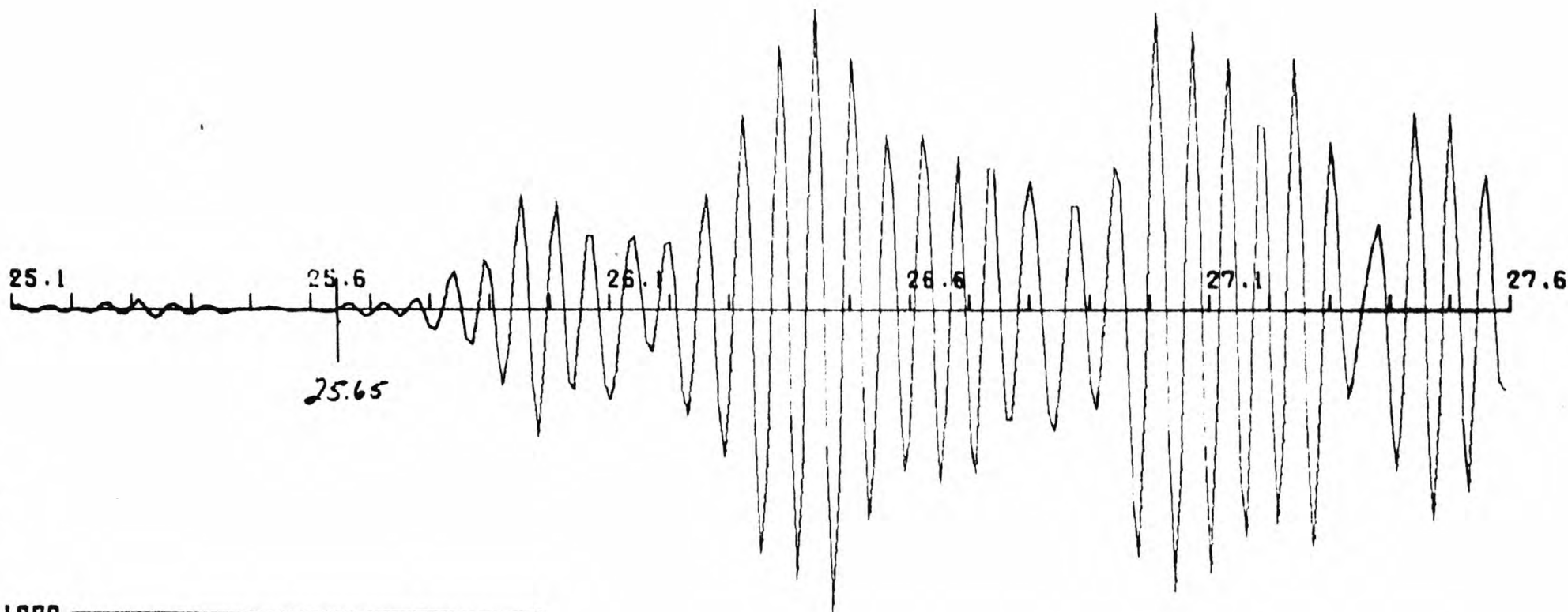
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 2

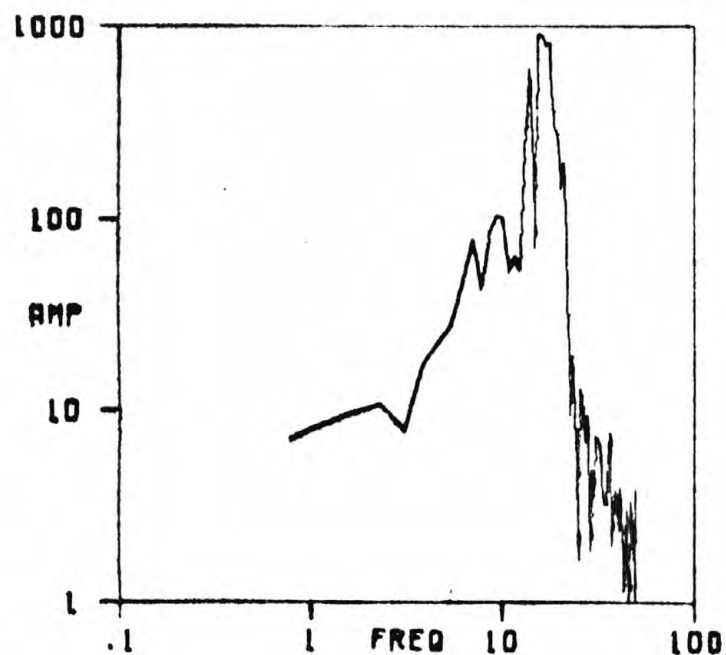
RECORDER LOCATION 389

DISTANCE FROM SHOT (KM) = -154.636

TSCALE (CM/SEC) = 10.0



303



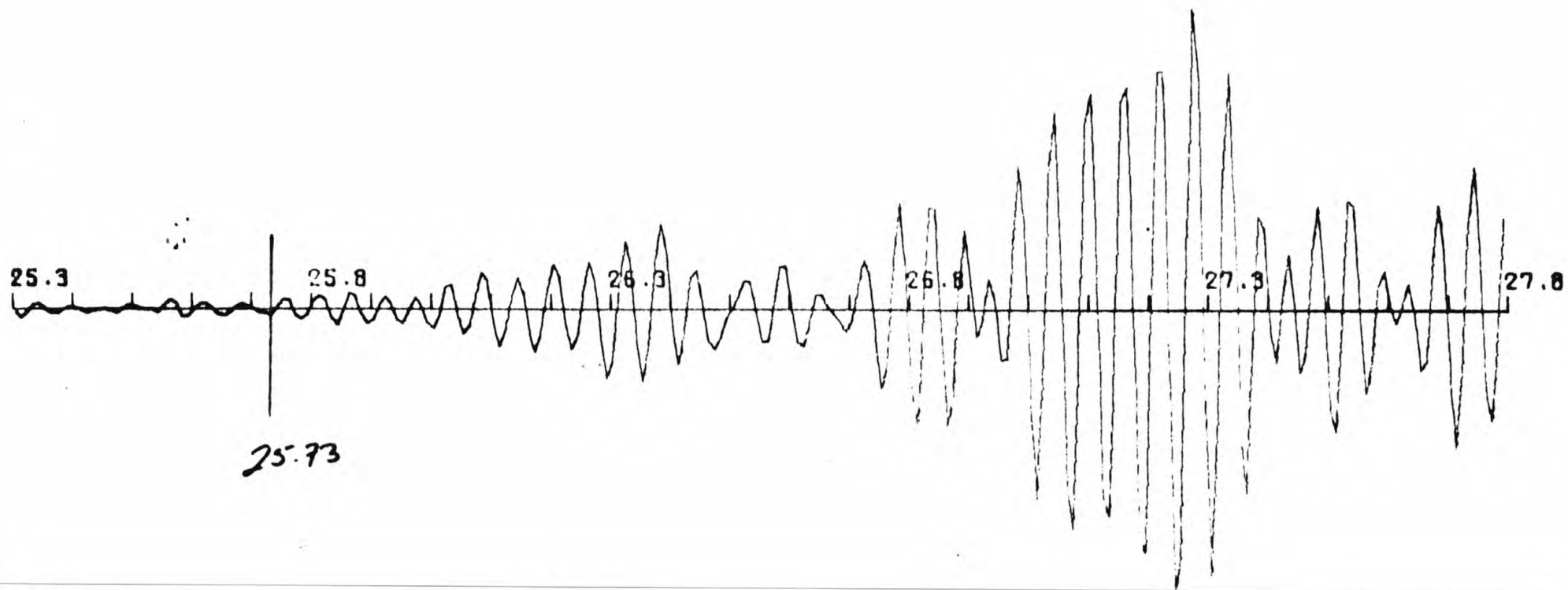
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 2

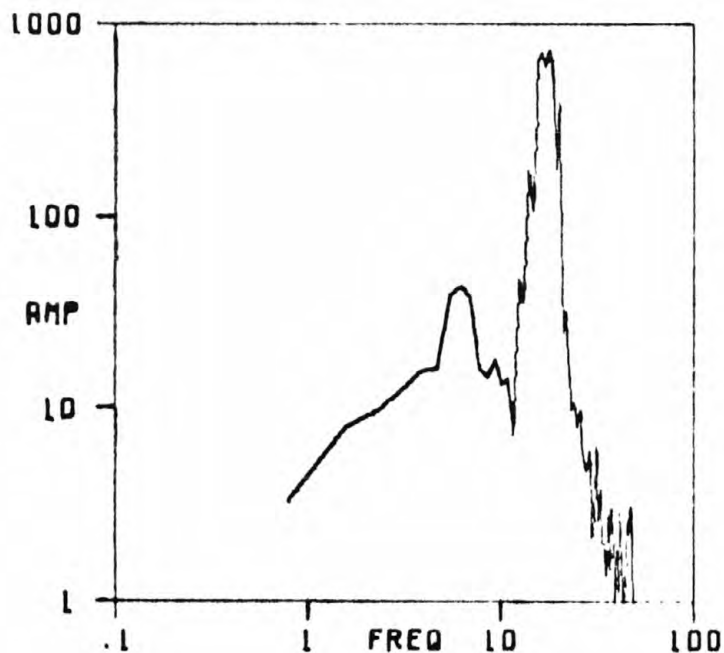
RECORDER LOCATION 390

DISTANCE FROM SHOT (KM) = -156.441

TSCALE (CM/SEC) = 10.0



304



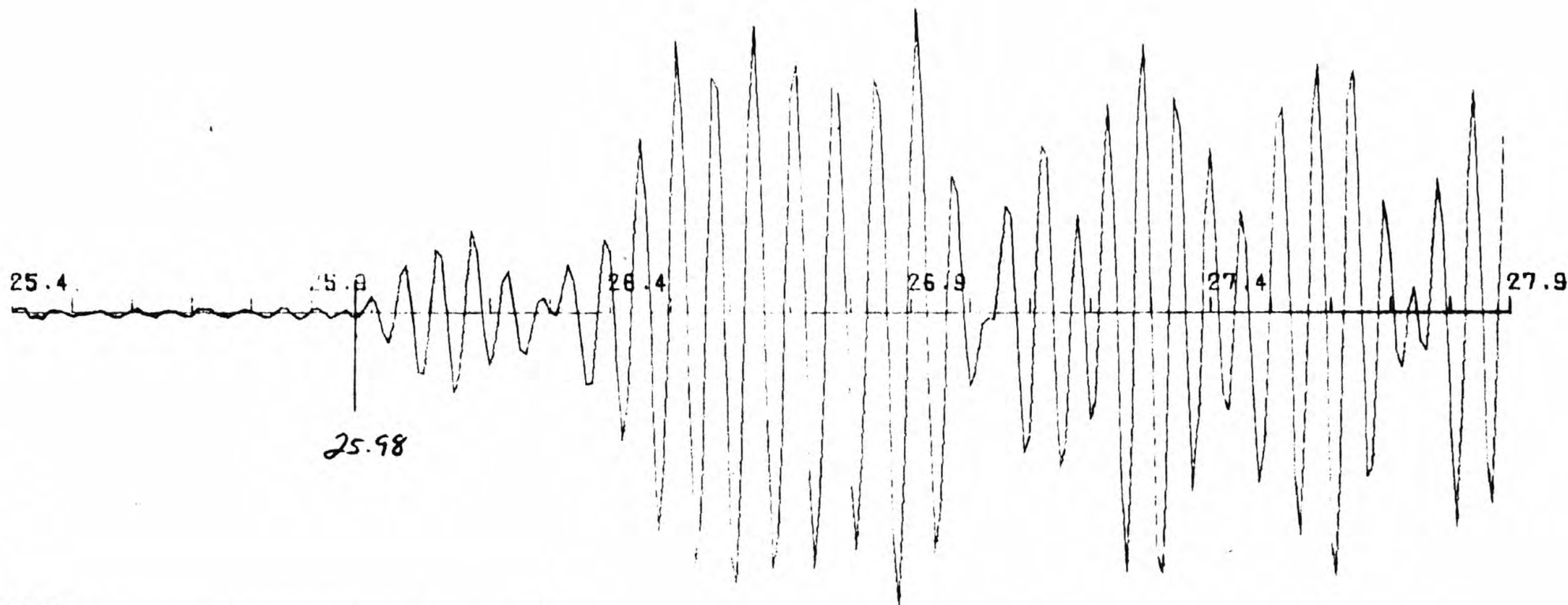
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 2

RECORDER LOCATION 391

DISTANCE FROM SHOT (KM) = -157.777

TSCALE (CM/SEC) = 10.0



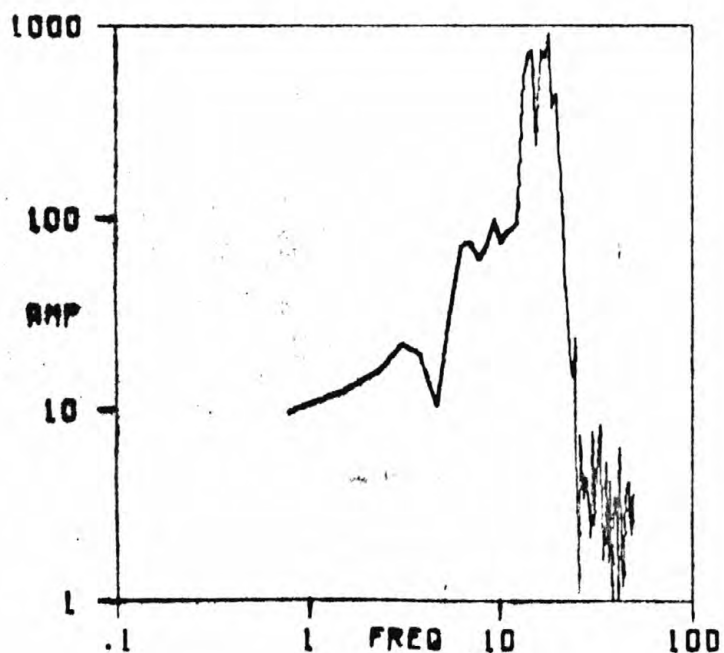
SAUDI REFRACTION PROFILE 15.20 BP

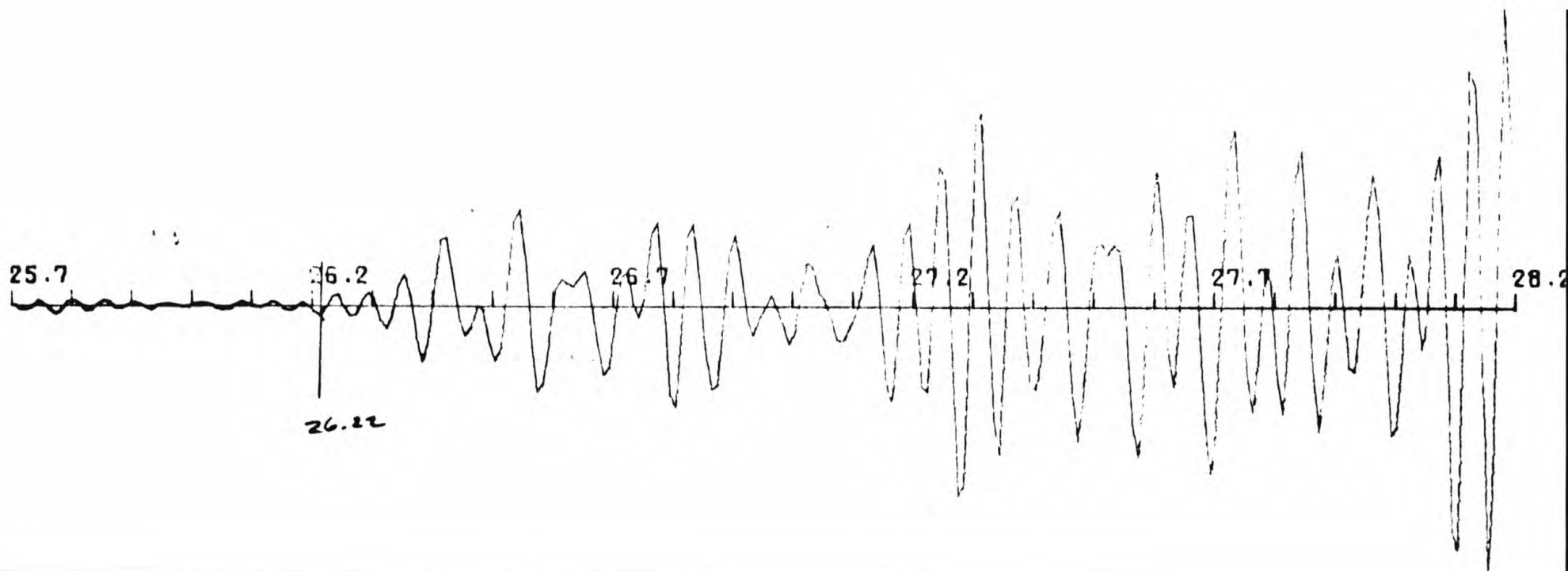
SHOT POINT 2

RECORDER LOCATION 392

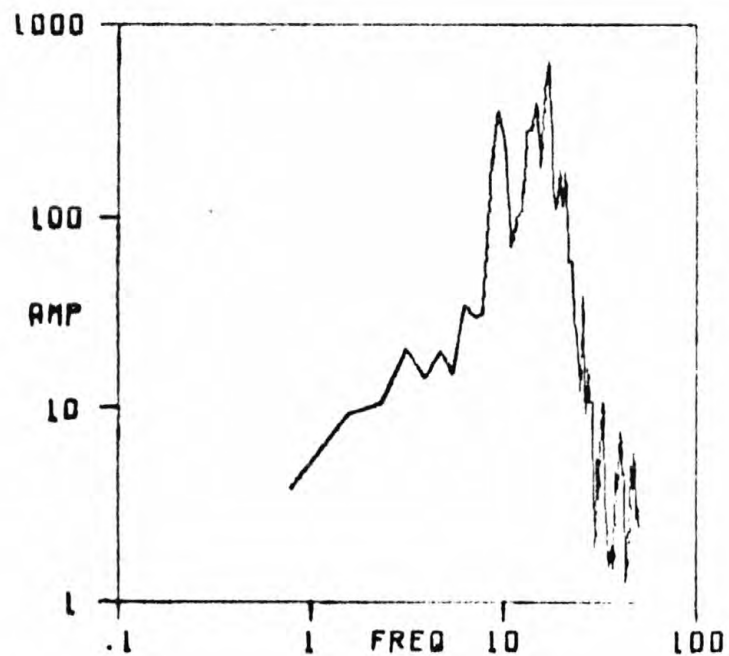
DISTANCE FROM SHOT (KM) = -158.353

TSCALE (CM/SEC) = 10.0





306



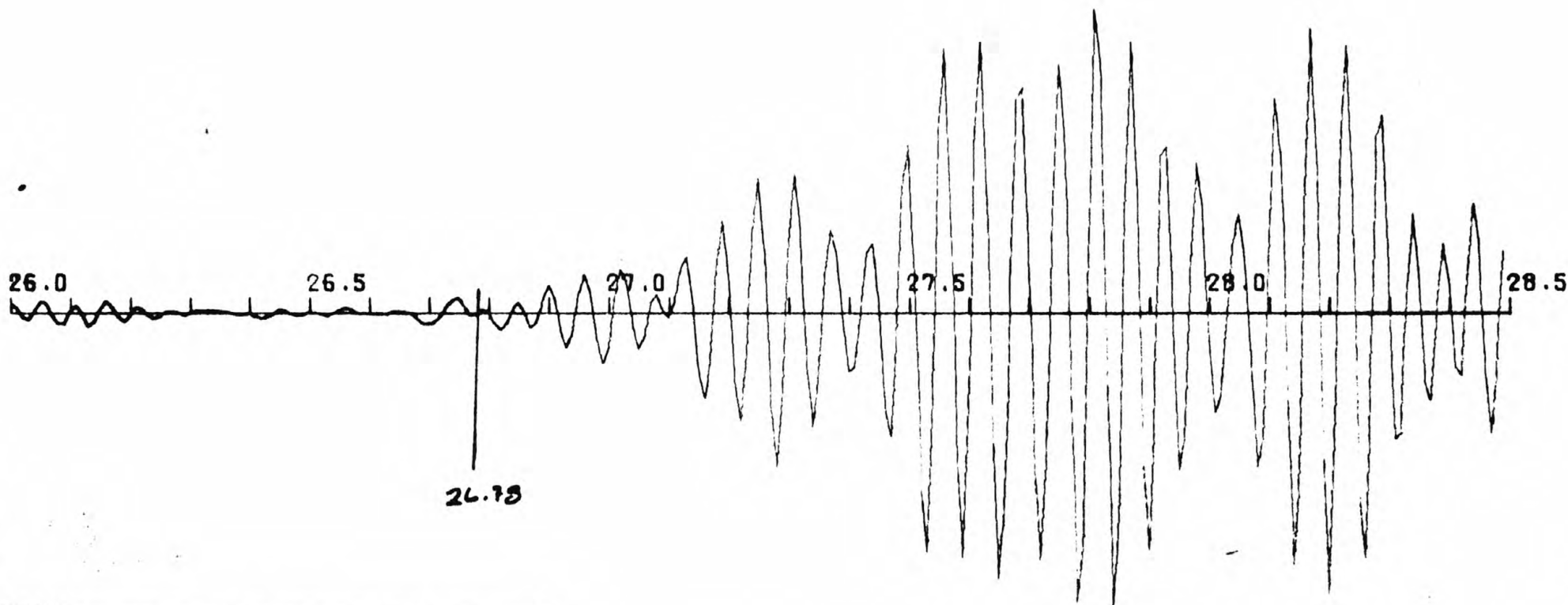
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 2

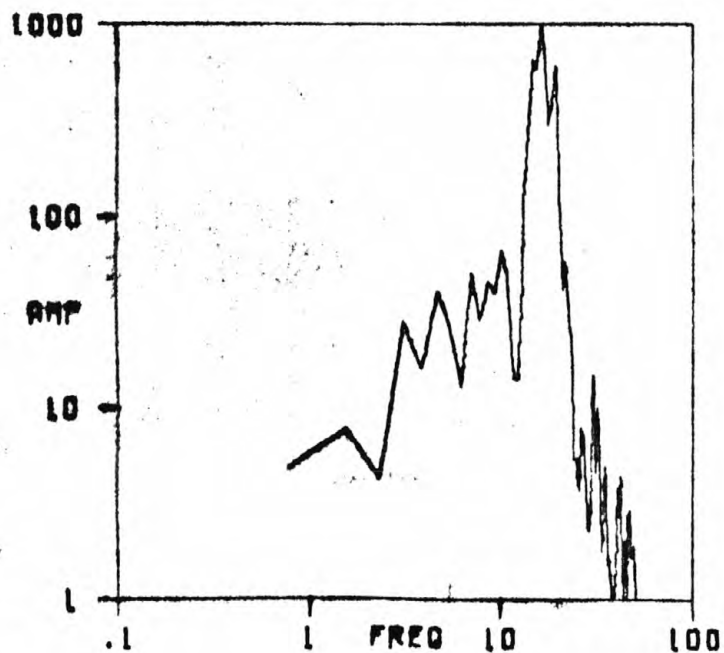
RECORDER LOCATION 393

DISTANCE FROM SHOT (KM) = -159.937

TSCALE (CM/SEC) = 10.0



307



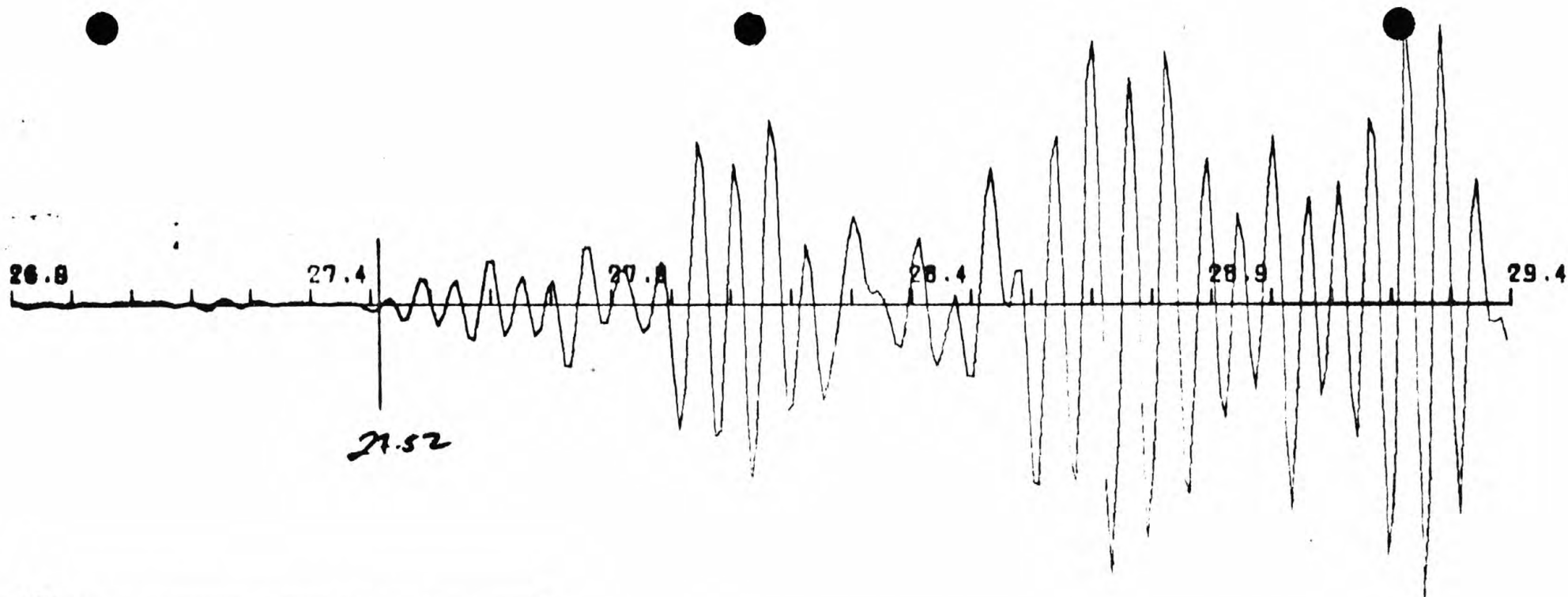
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 2

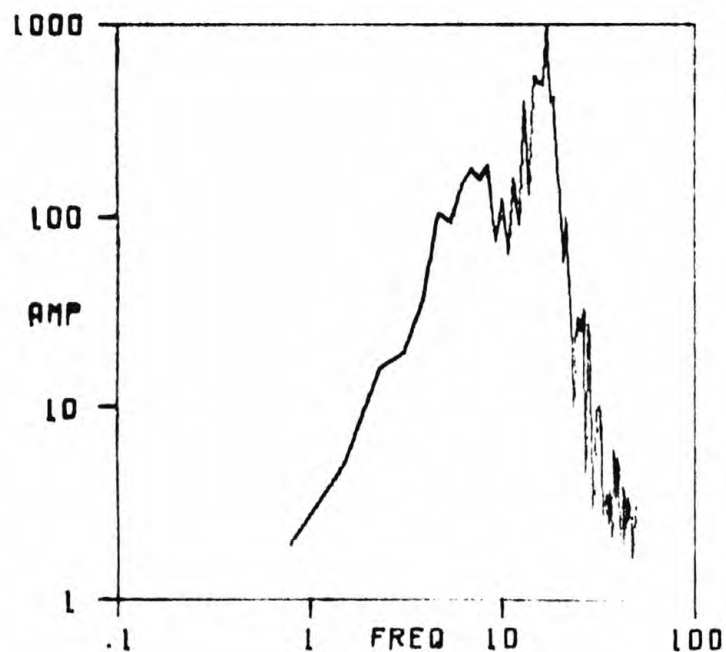
RECORDER LOCATION 394

DISTANCE FROM SHOT (KM) = -161.944

TS SCALE (CM/SEC) = 10.0



309



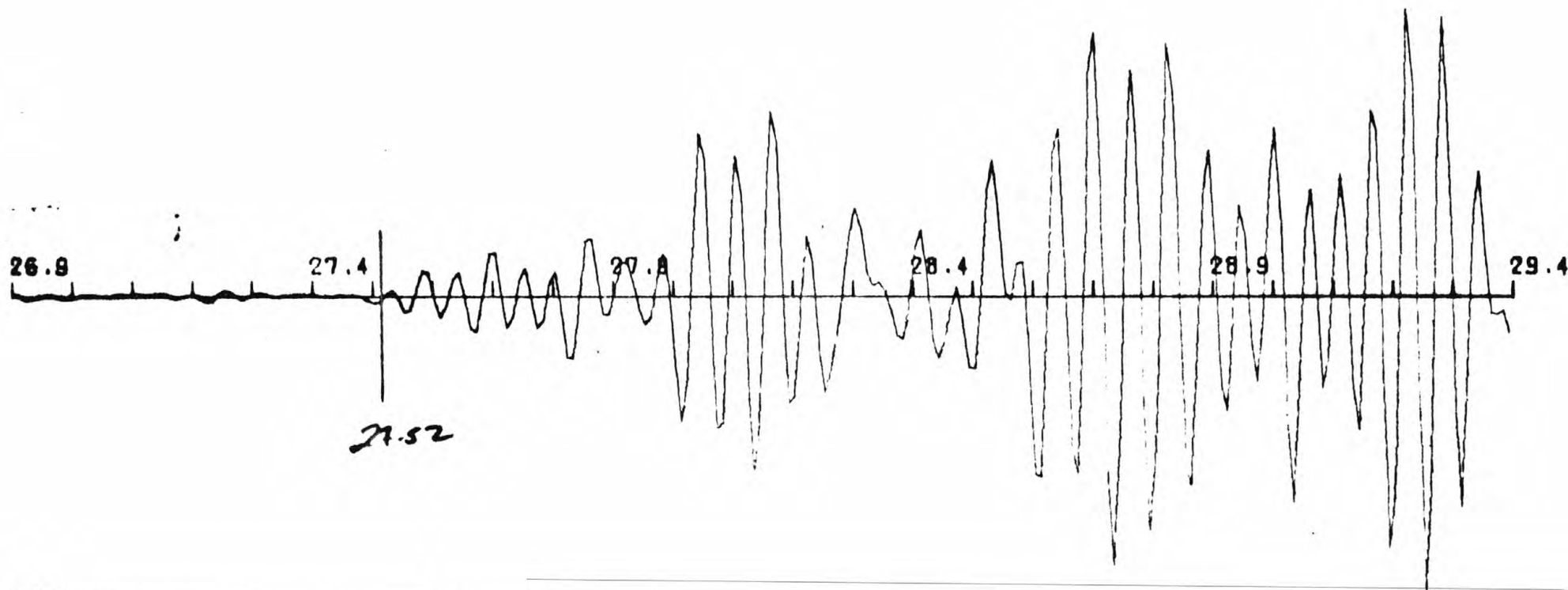
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 2

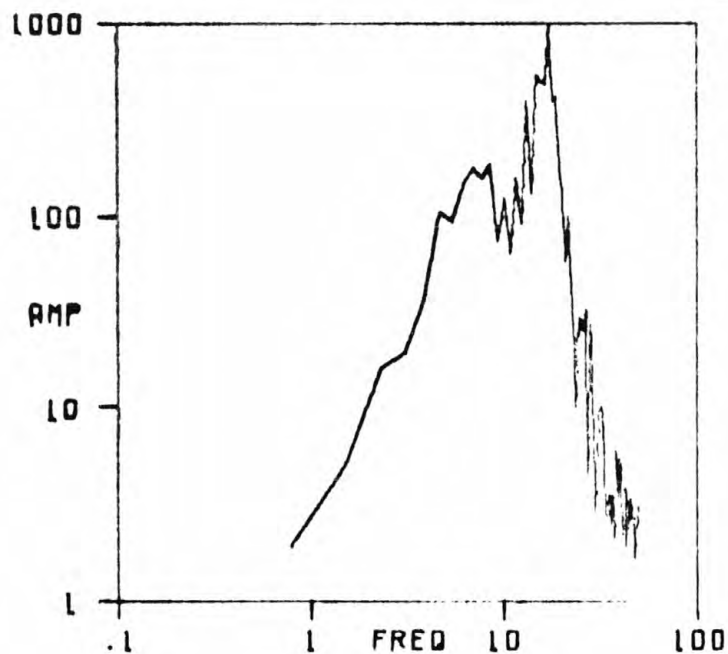
RECORDER LOCATION 397

DISTANCE FROM SHOT (KM) = -167.253

TSCALE (CM/SEC) = 10.0



310



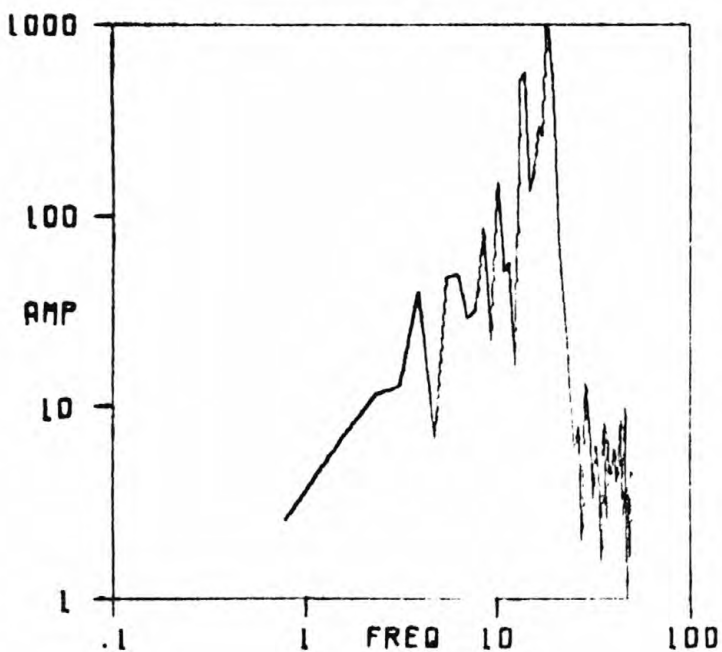
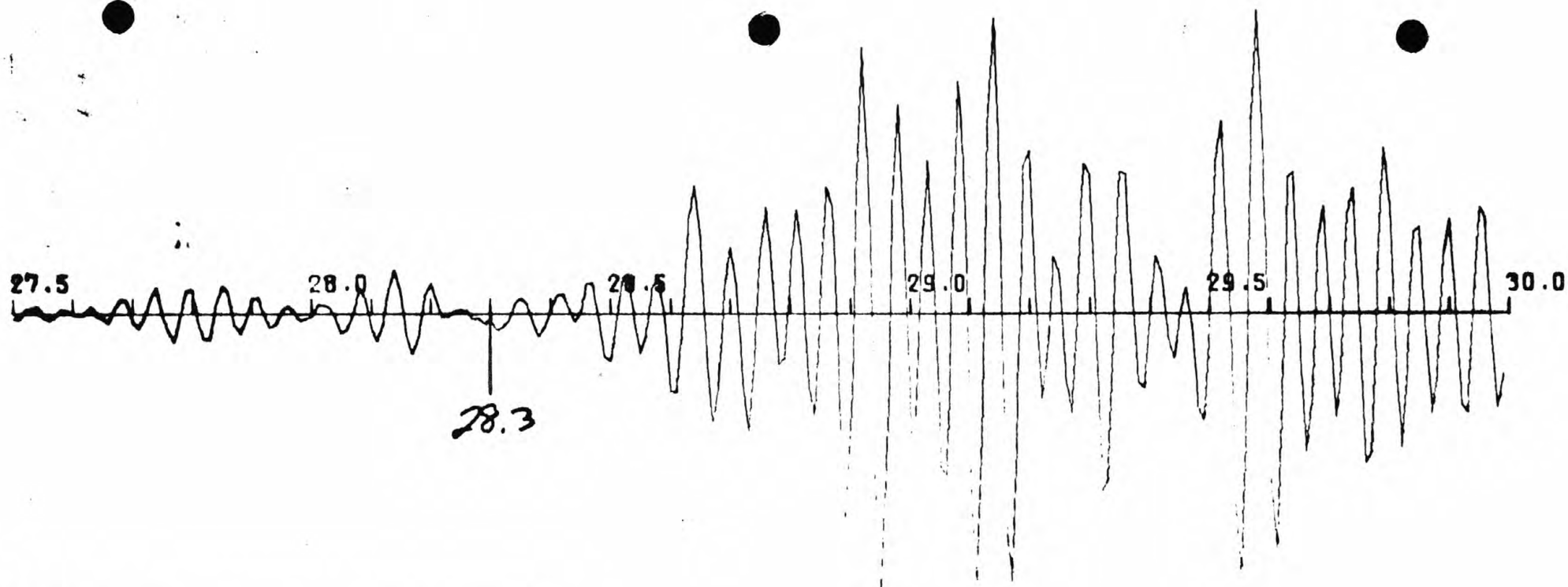
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 2

RECORDER LOCATION 397

DISTANCE FROM SHOT (KM) = -167.253

TSCALE (CM/SEC) = 10.0



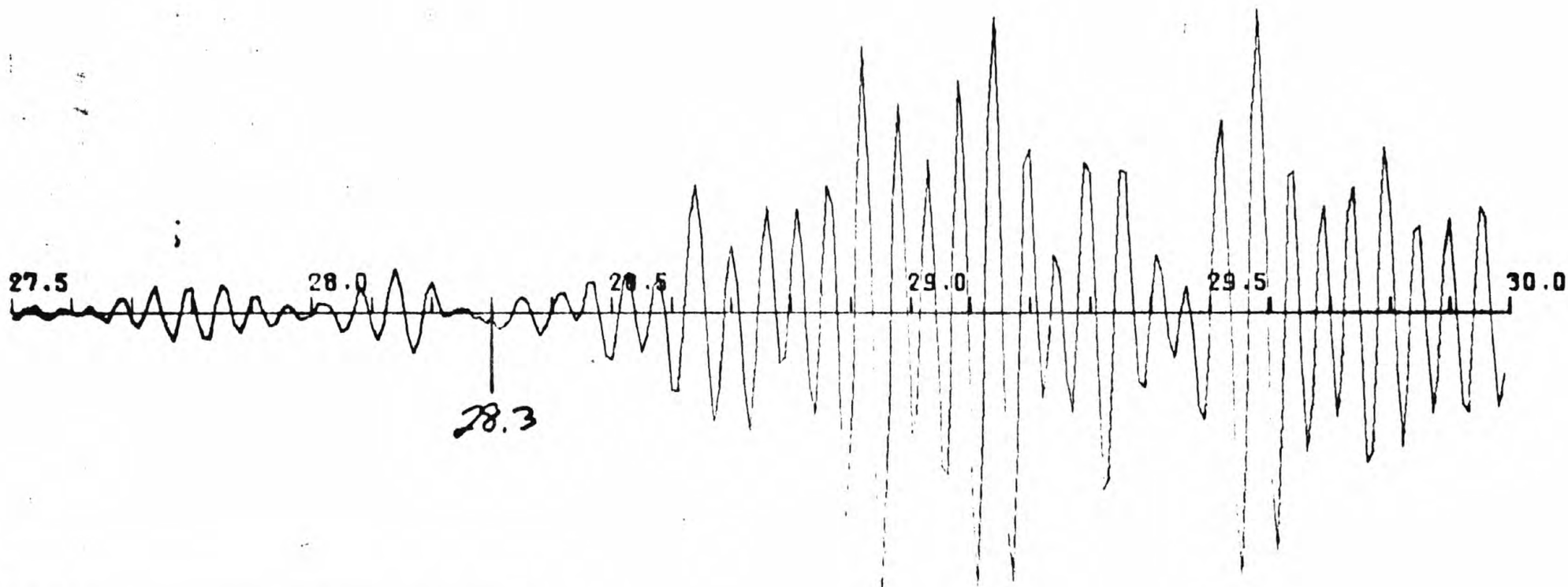
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 2

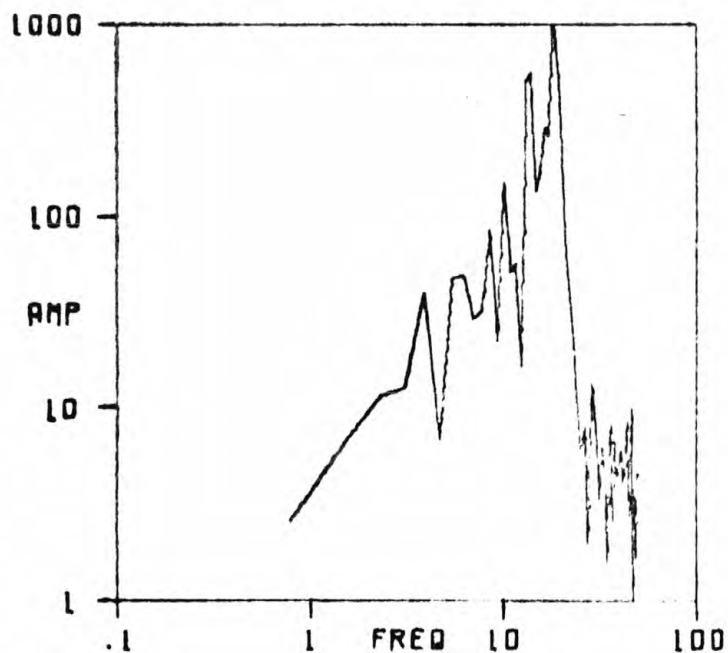
RECORDER LOCATION 398

DISTANCE FROM SHOT (KM) = -170.594

TSCALE (CM/SEC) = 10.0



3/2



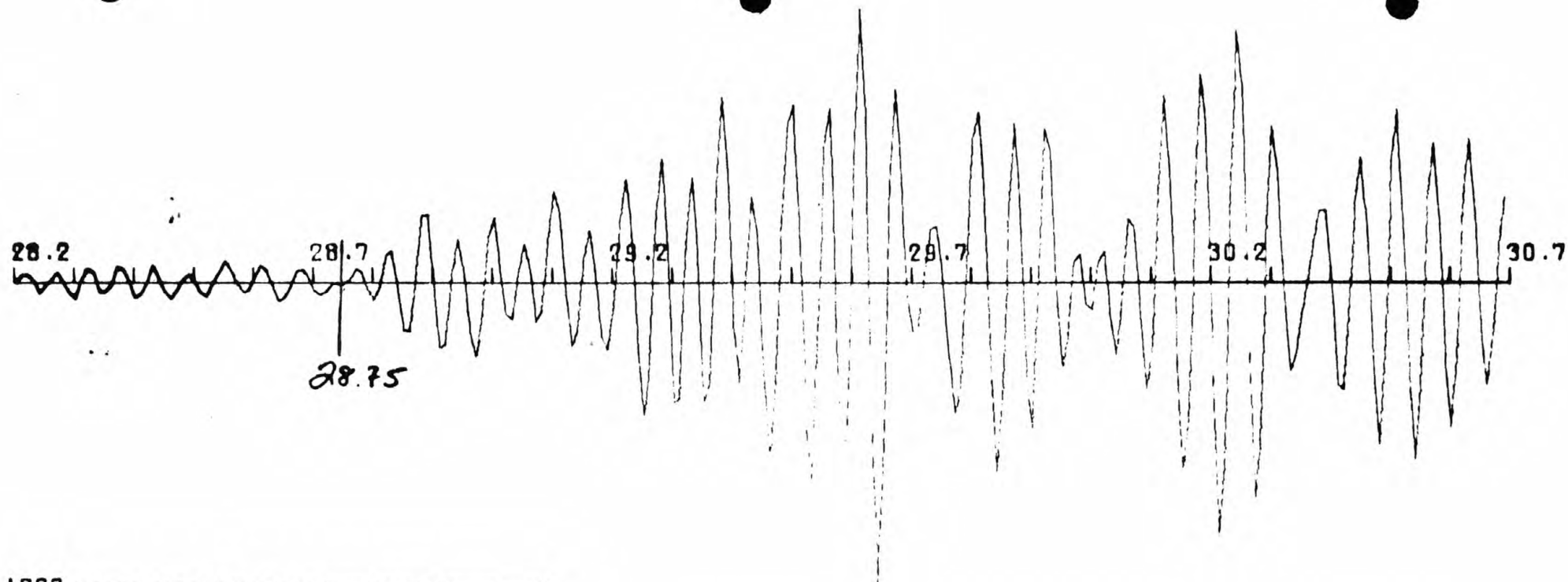
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 2

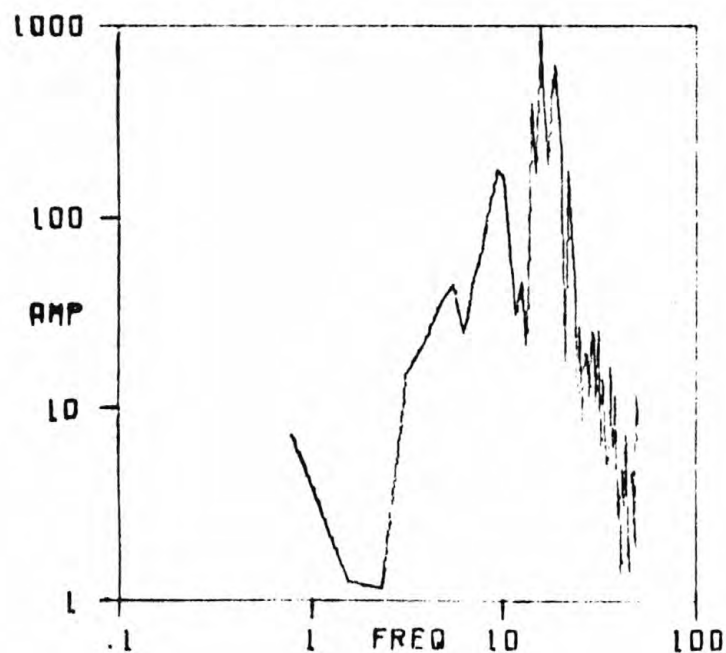
RECORDER LOCATION 398

DISTANCE FROM SHOT (KM) = -170.594

TSCALE (CM/SEC) = 10.0



3/3



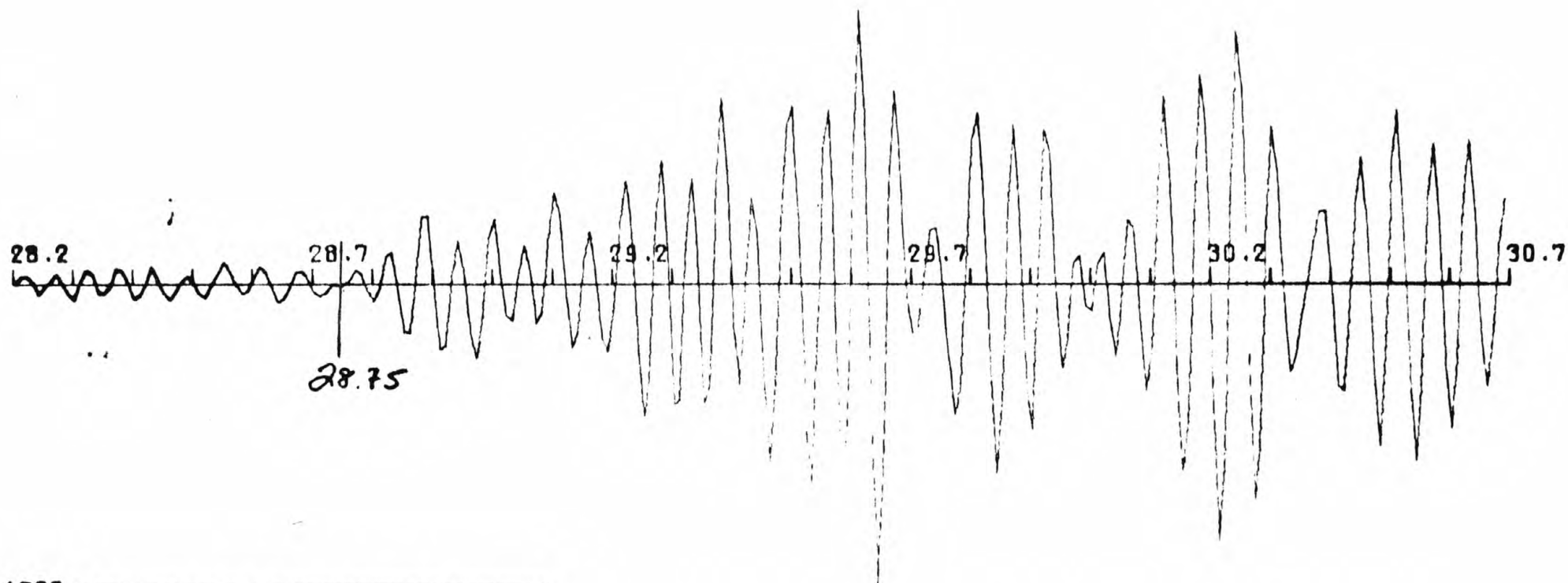
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 2

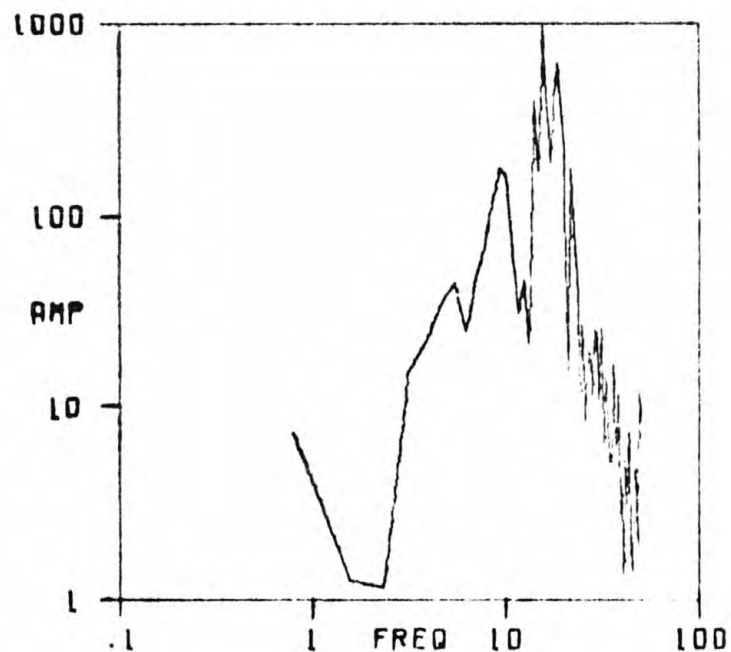
RECORDER LOCATION 401

DISTANCE FROM SHOT (KM) = -174.810

TSCALE (CM/SEC) = 10.0



34



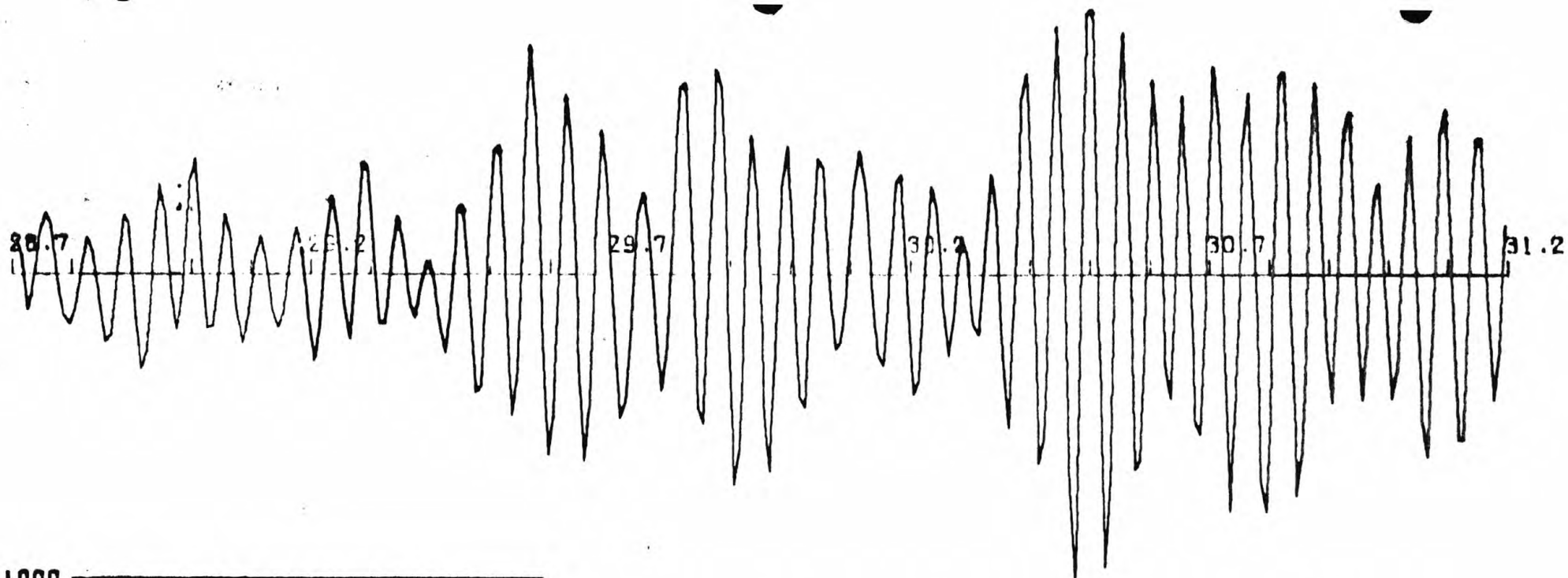
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 2

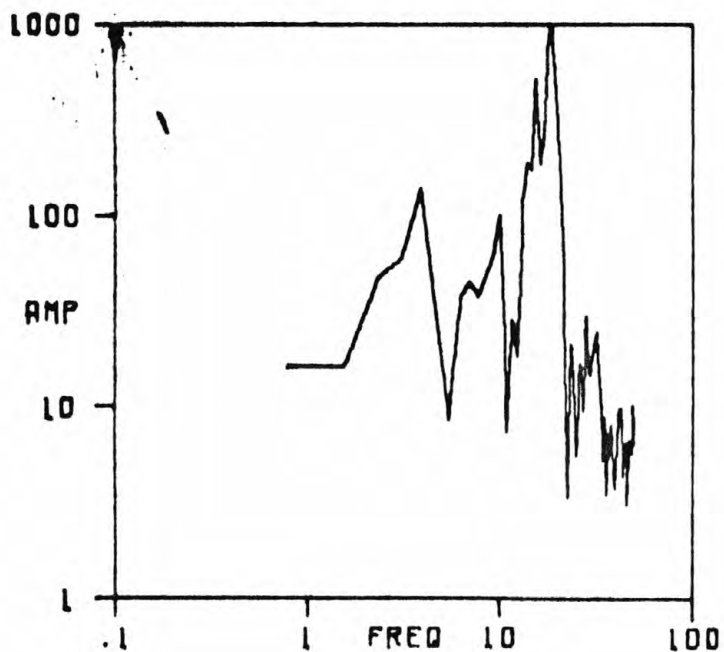
RECORDER LOCATION 401

DISTANCE FROM SHOT (KM) = -174.810

TSCALE (CM/SEC) = 10.0



315



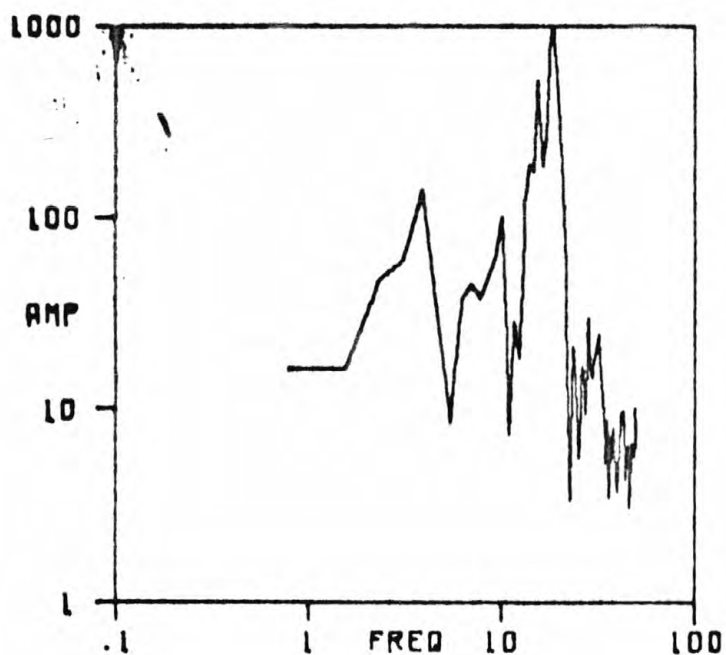
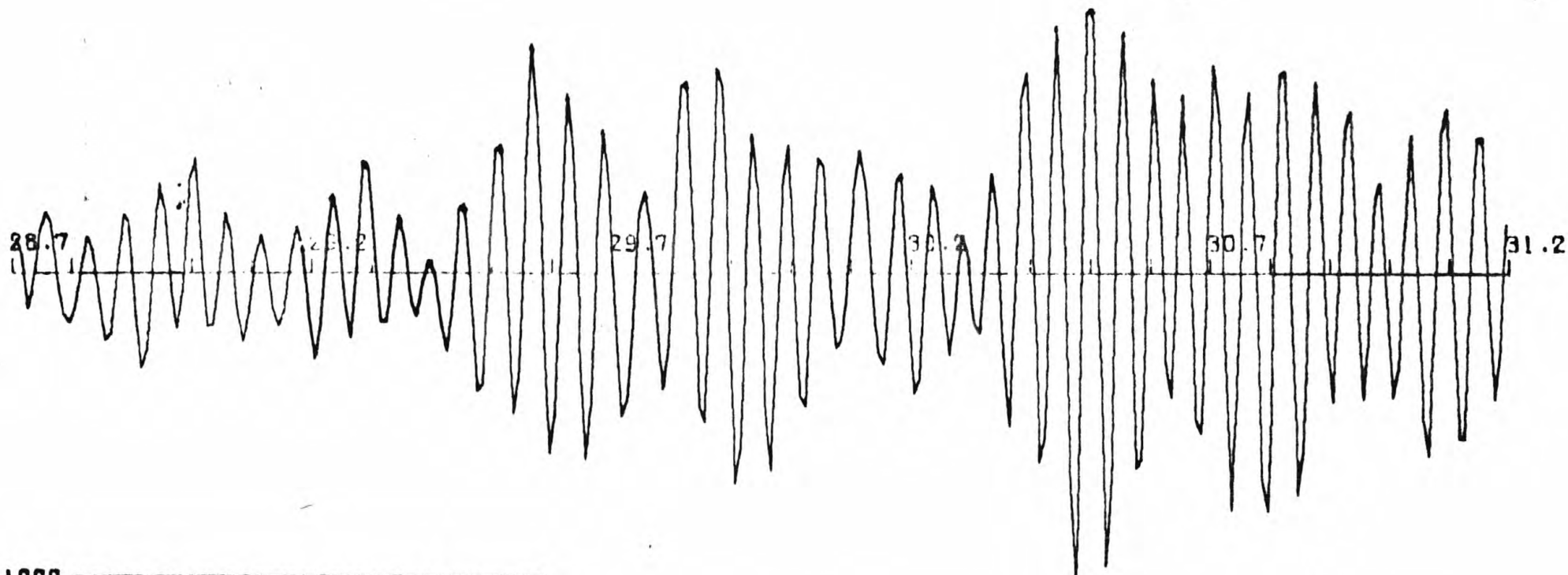
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 2

RECORDER LOCATION 403

DISTANCE FROM SHOT (KM) = -178.008

1SCALE (CM/SEC) = 10 0



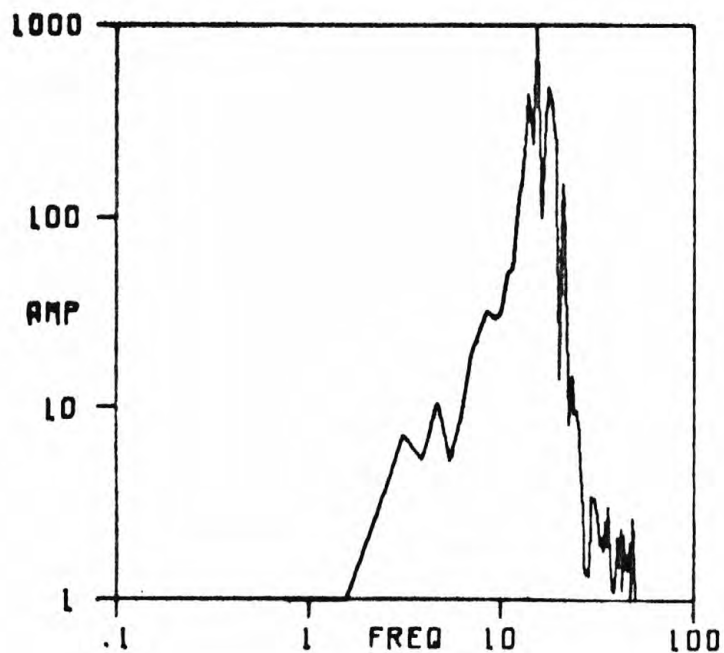
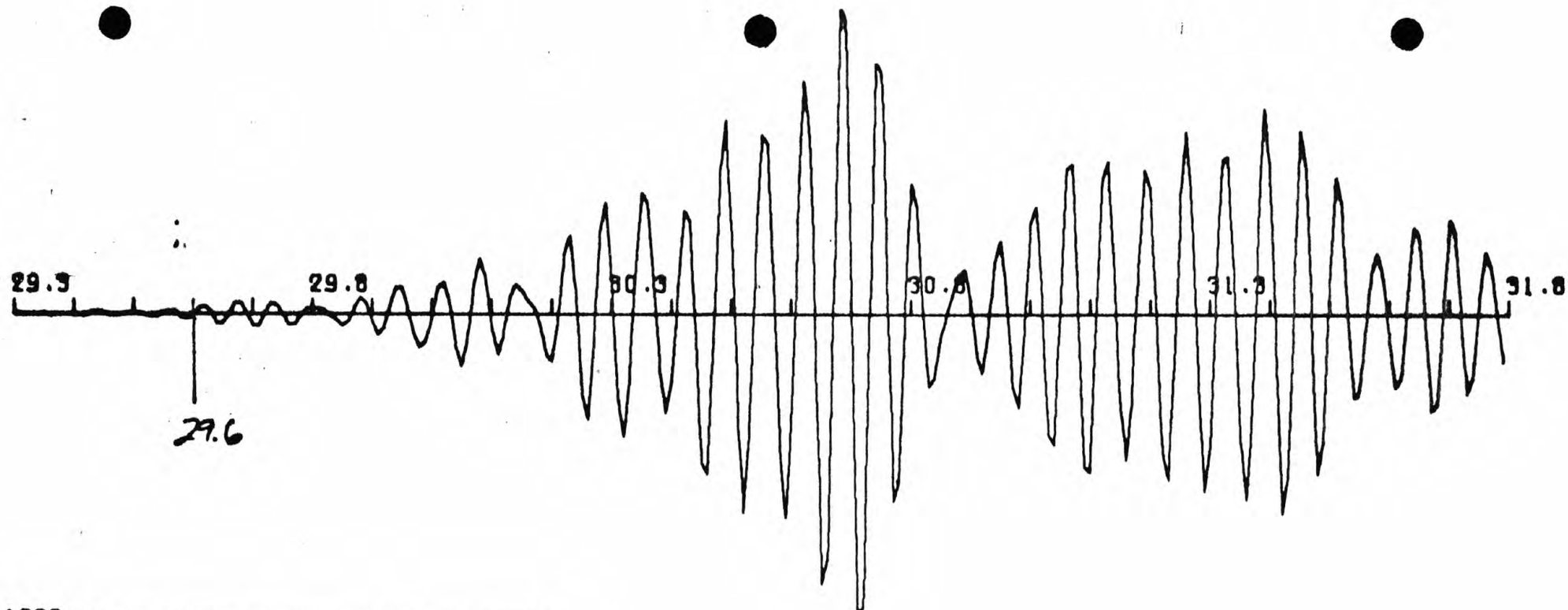
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 2

RECORDER LOCATION 403

DISTANCE FROM SHOT (KM) = -178.008

1SCALE (CM/SEC) = 10.0



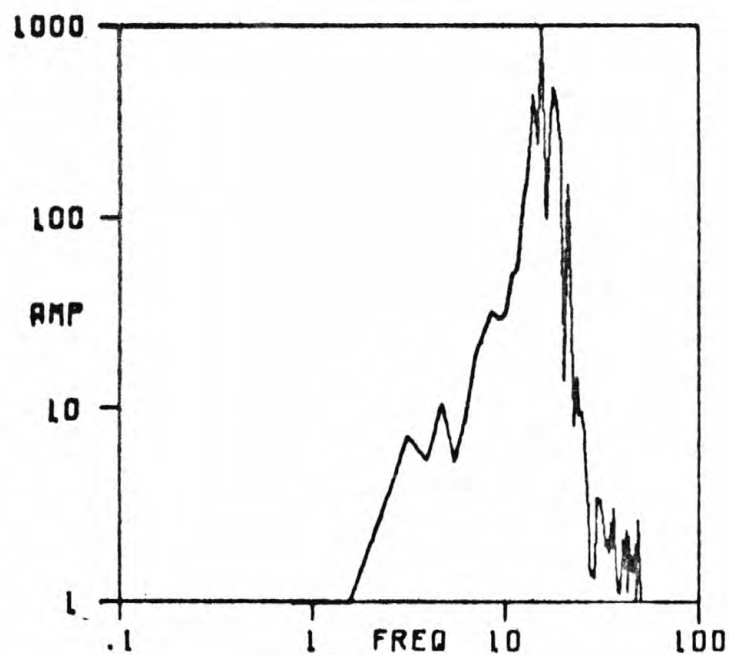
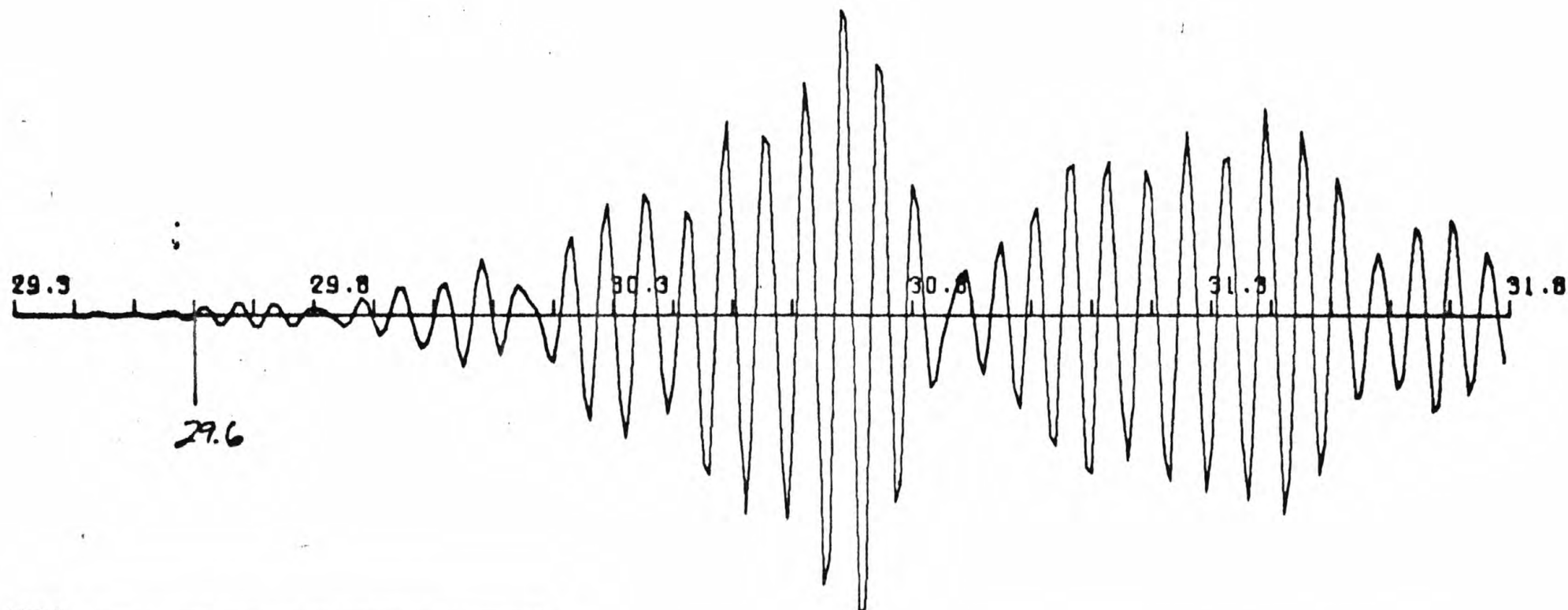
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 2

RECORDER LOCATION 405

DISTANCE FROM SHOT (KM) = -181.757

TSCALE (CM/SEC) = 10.0



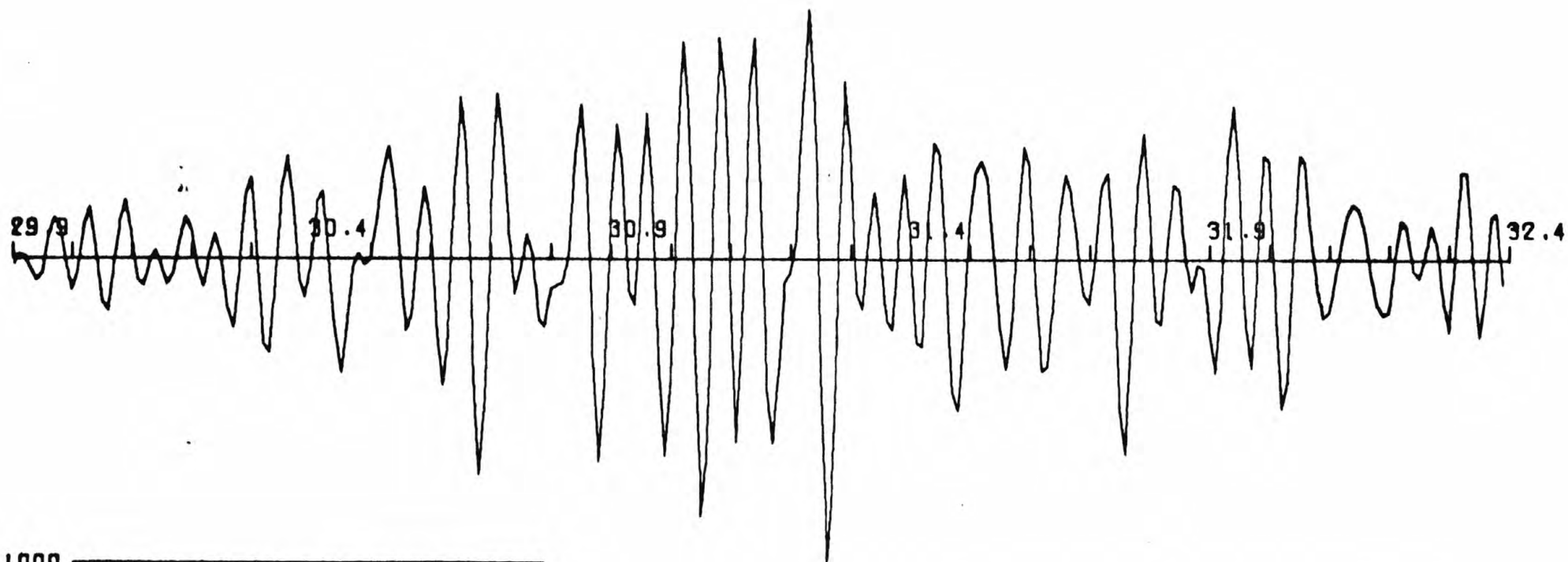
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 2

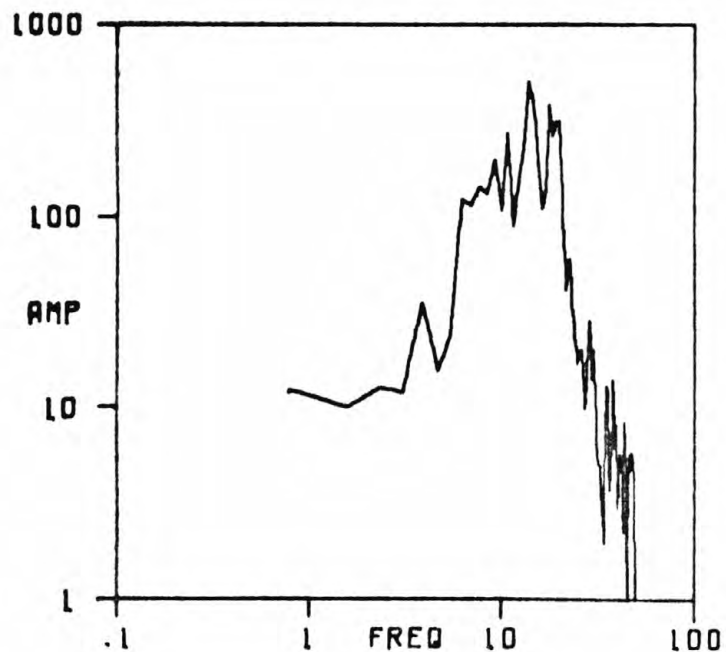
RECORDER LOCATION 405

DISTANCE FROM SHOT (KM) = -181.757

TSCALE (CM/SEC) = 10.0



319



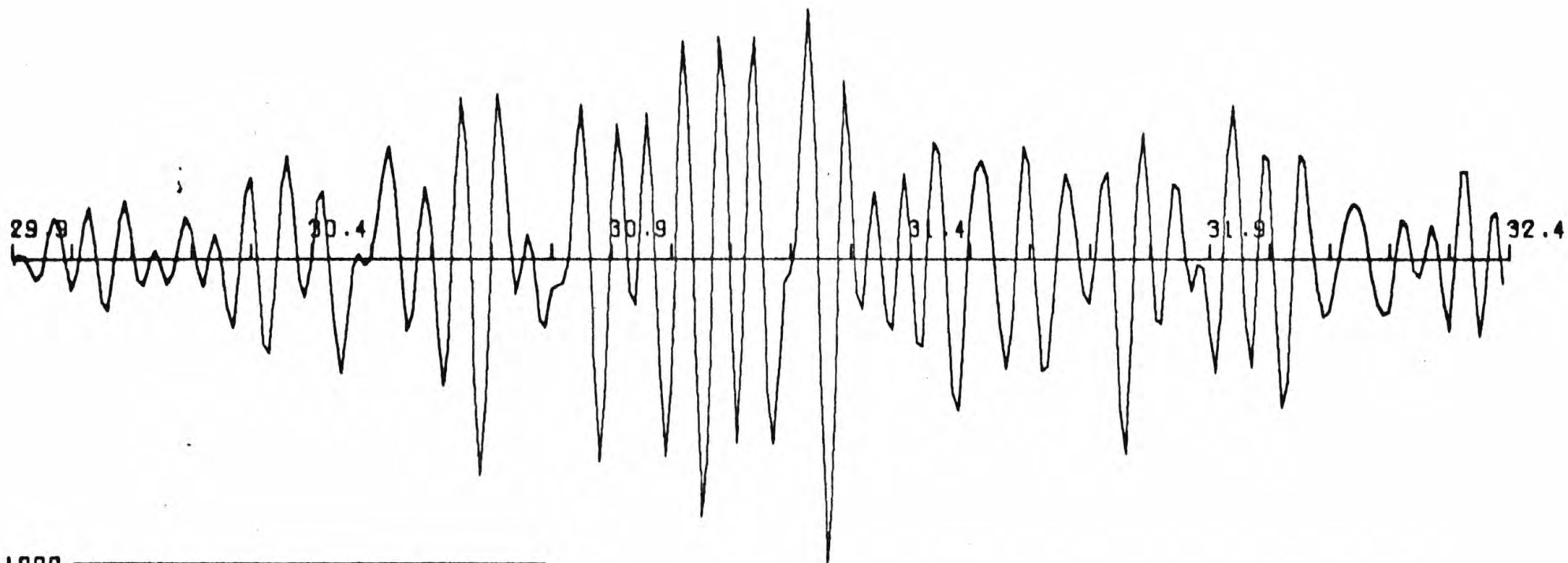
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 2

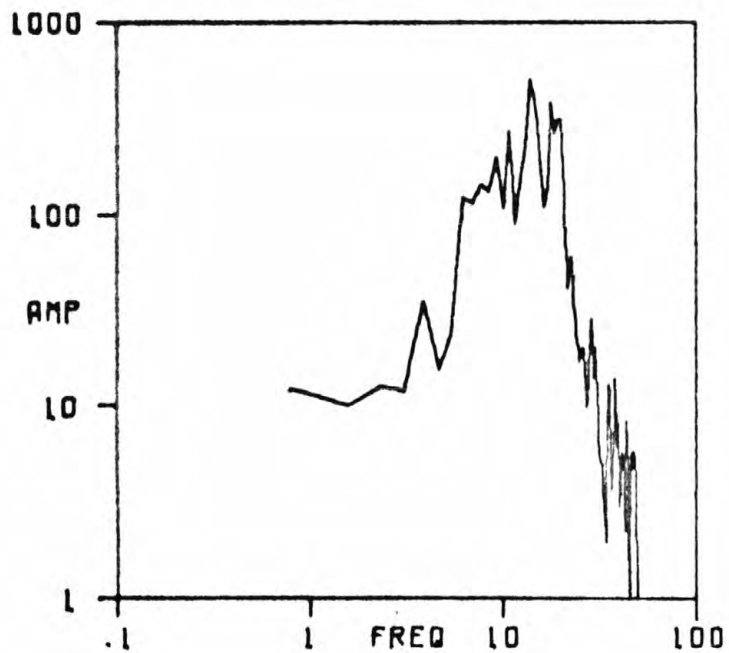
RECORDER LOCATION 407

DISTANCE FROM SHOT (KM) = -185.168

TSCALE (CM/SEC) = 10.0



320



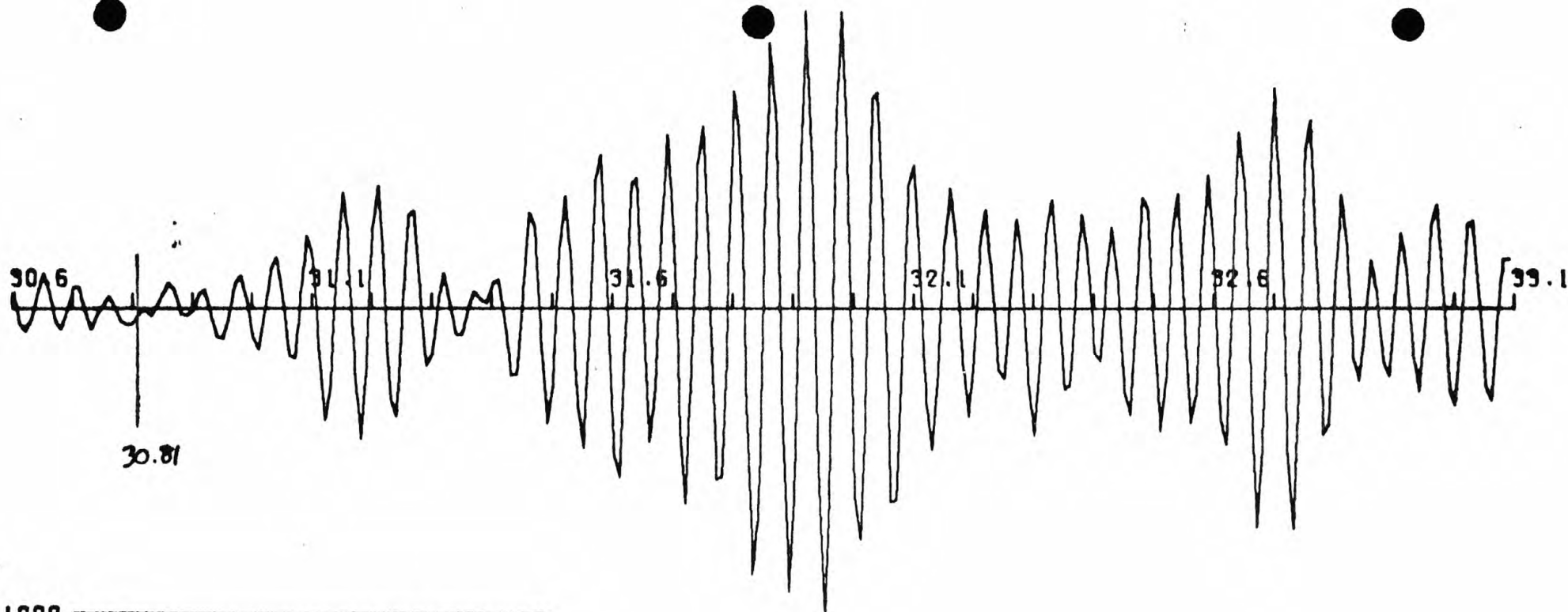
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 2

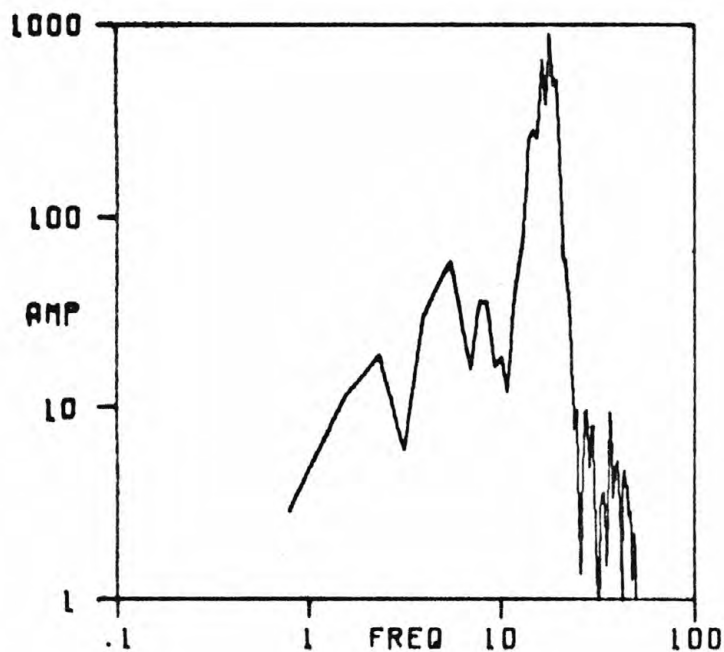
RECORDER LOCATION 407

DISTANCE FROM SHOT (KM) = -185.168

TSCALE (CM/SEC) = 10.0



321



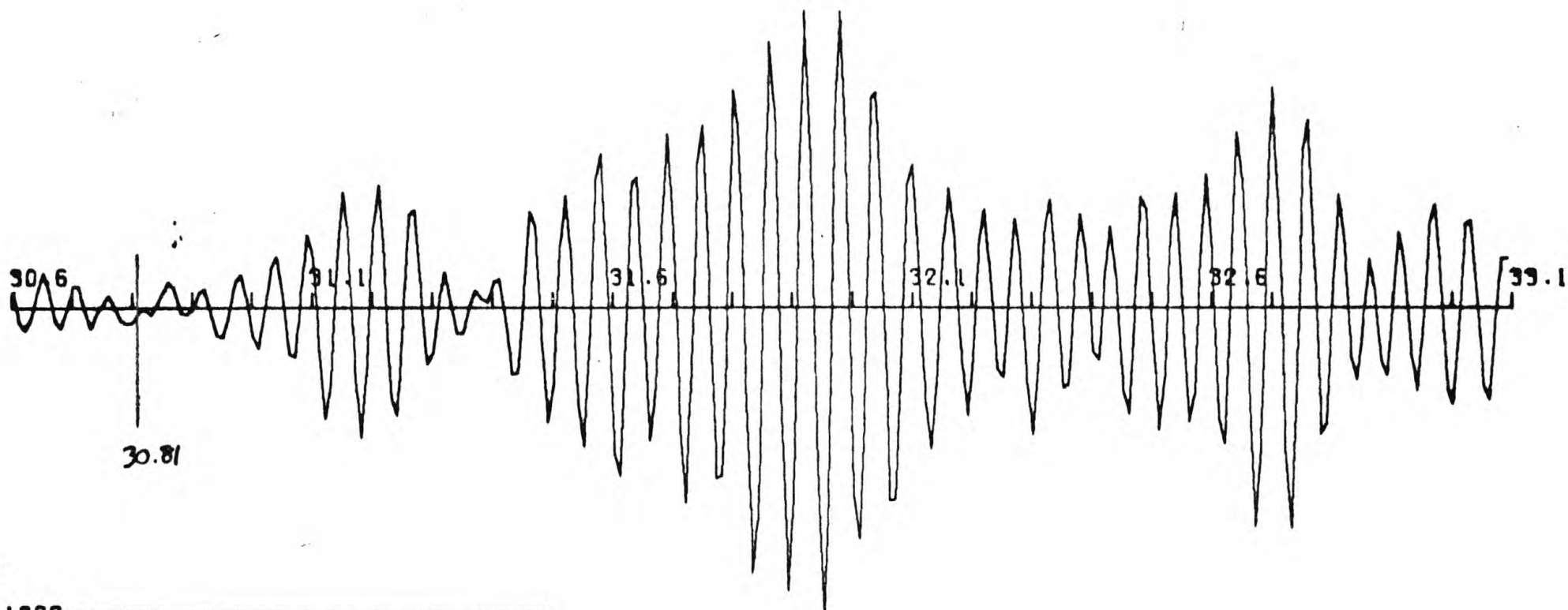
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 2

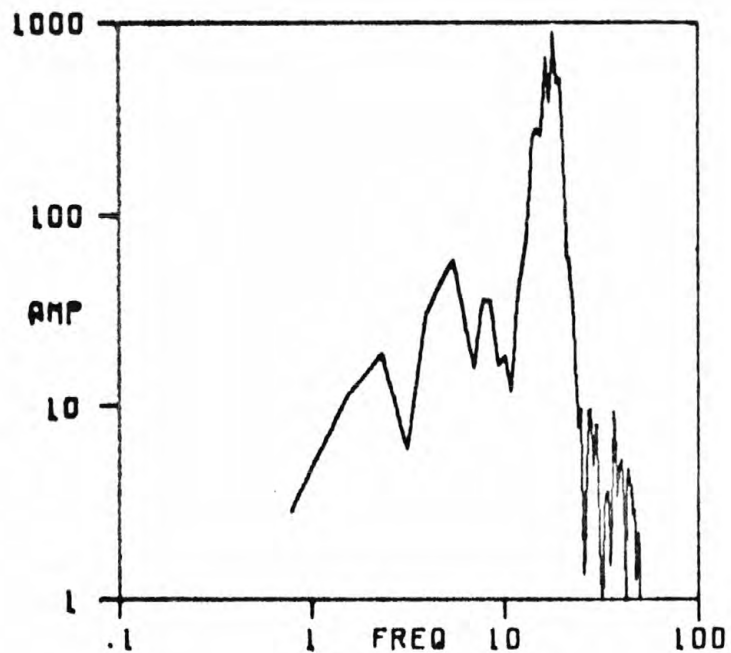
RECORDER LOCATION 409

DISTANCE FROM SHOT (KM) = -189.143

TSCALE (CM/SEC) = 10.0



322



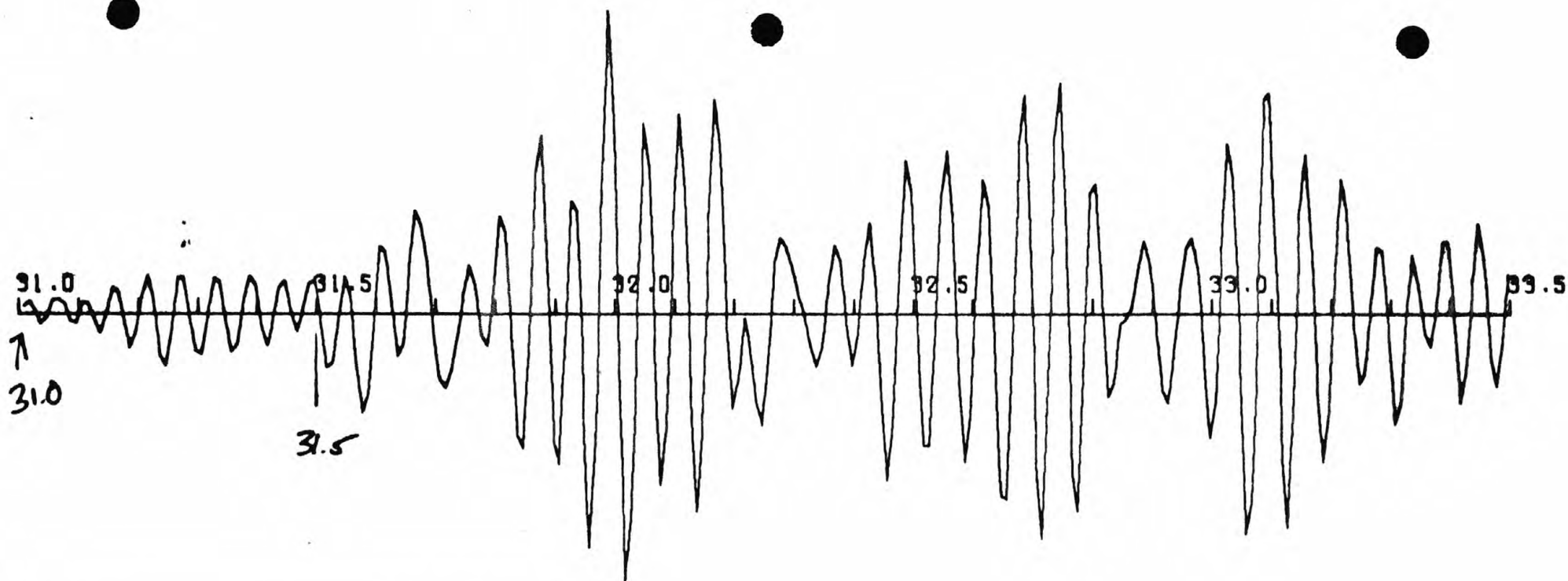
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 2

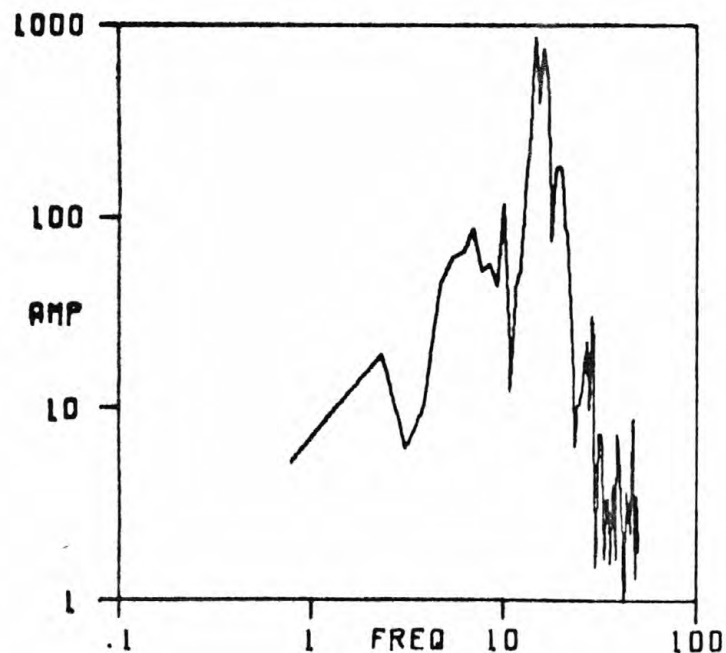
RECORDER LOCATION 409

DISTANCE FROM SHOT (KM) = -189.143

TSCALE (CM/SEC) = 10.0



323



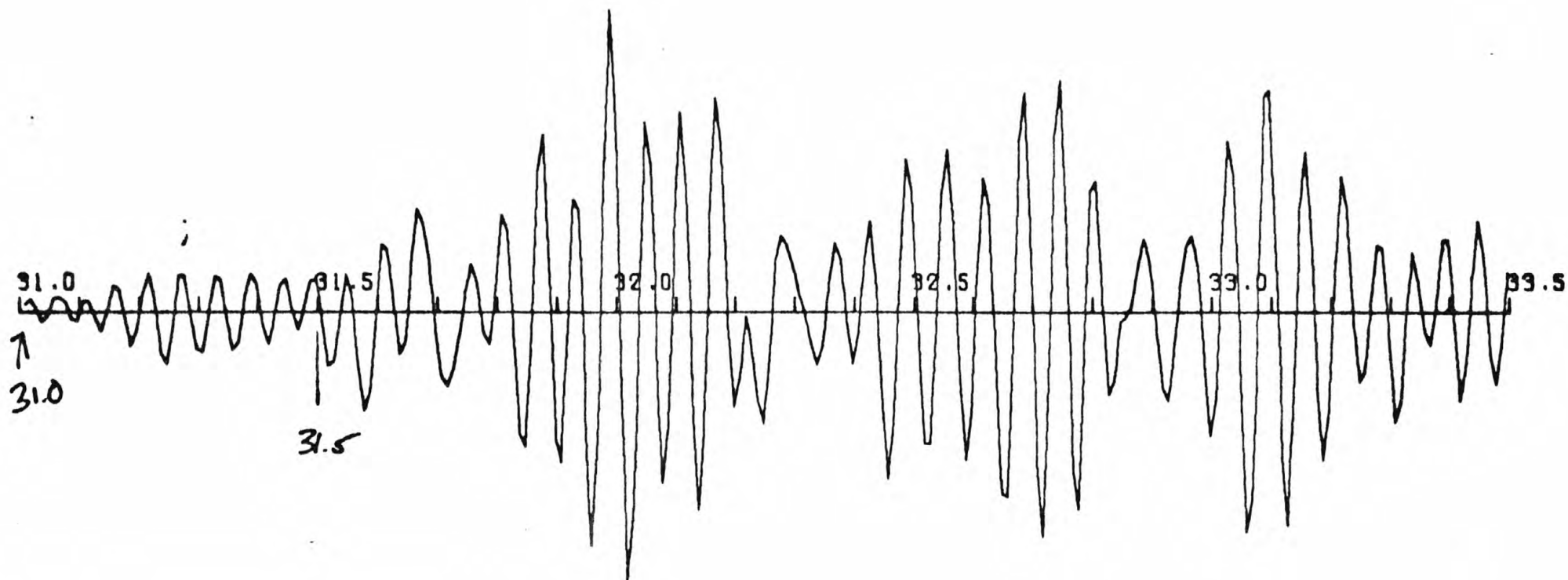
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 2

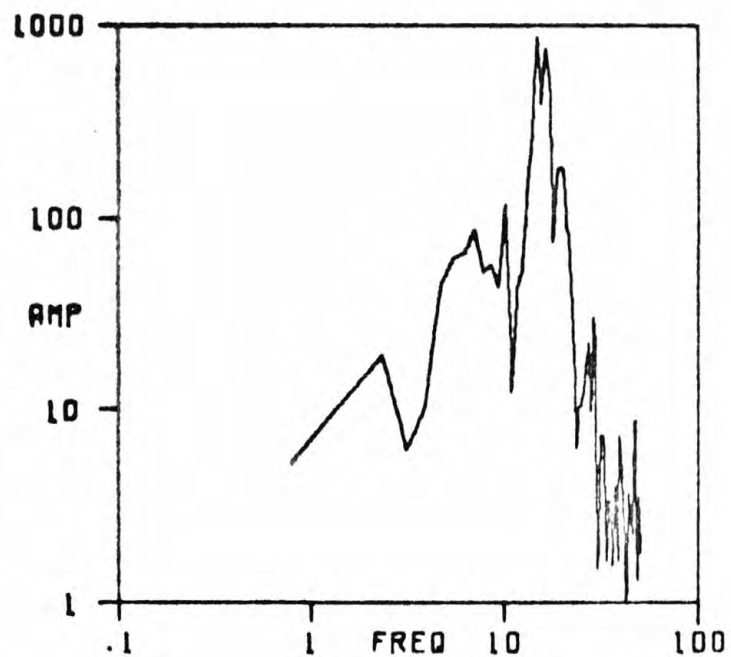
RECORDER LOCATION 411

DISTANCE FROM SHOT (KM) = -191.995

TSCALE (CM/SEC) = 10.0



324



SAUDI REFRACTION PROFILE 15.20 BP

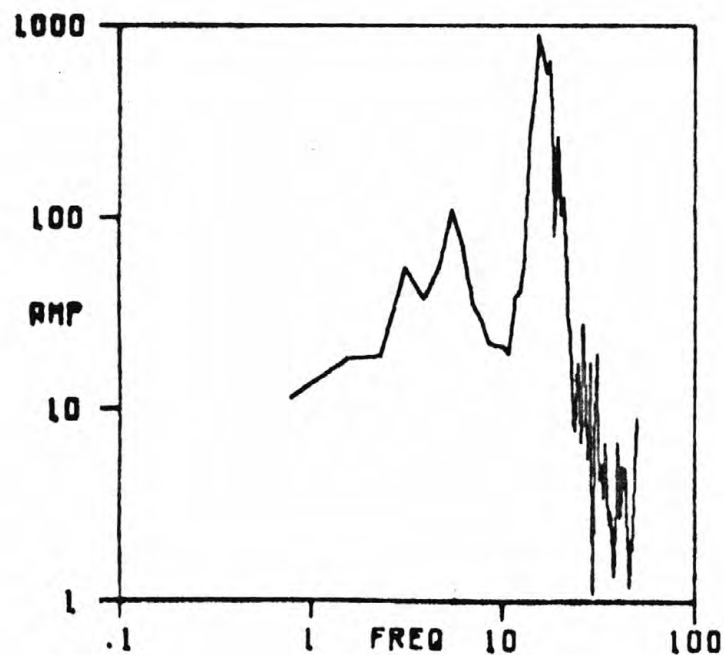
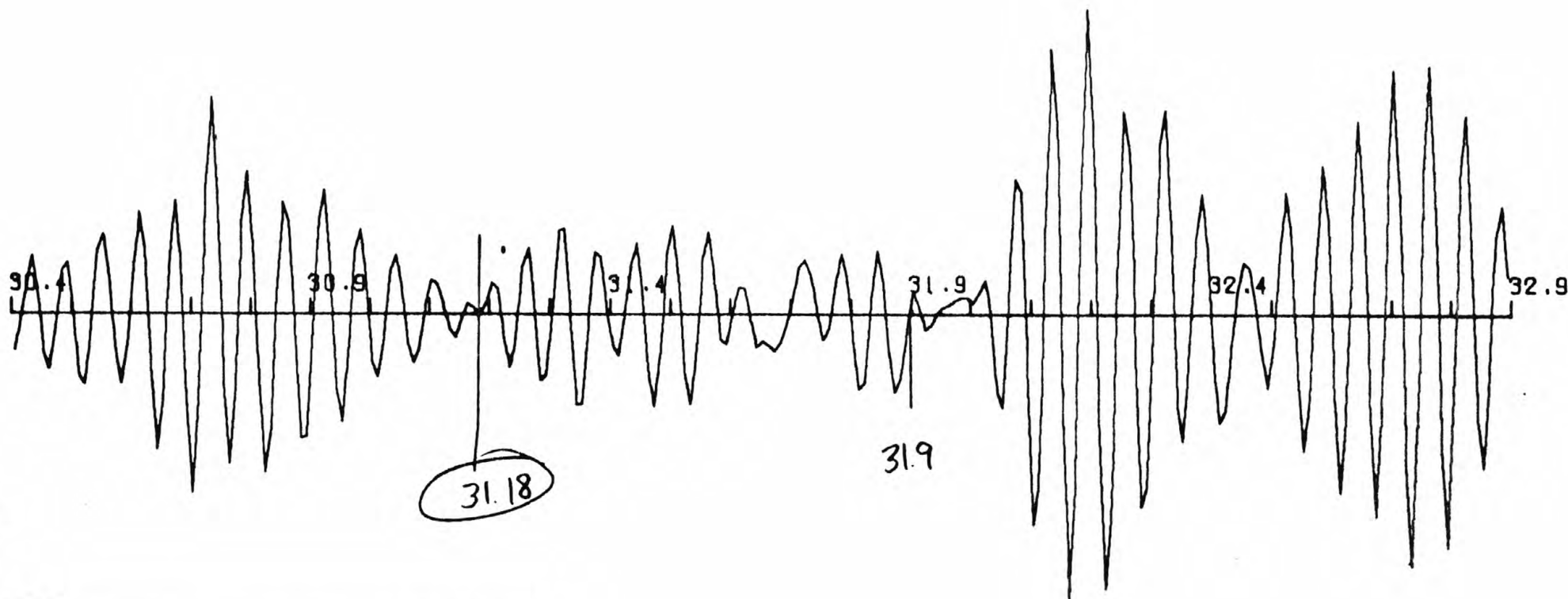
SHOT POINT 2

RECORDER LOCATION 411

DISTANCE FROM SHOT (KM) = -191.995

TSCALE (CM/SEC) = 10.0

325



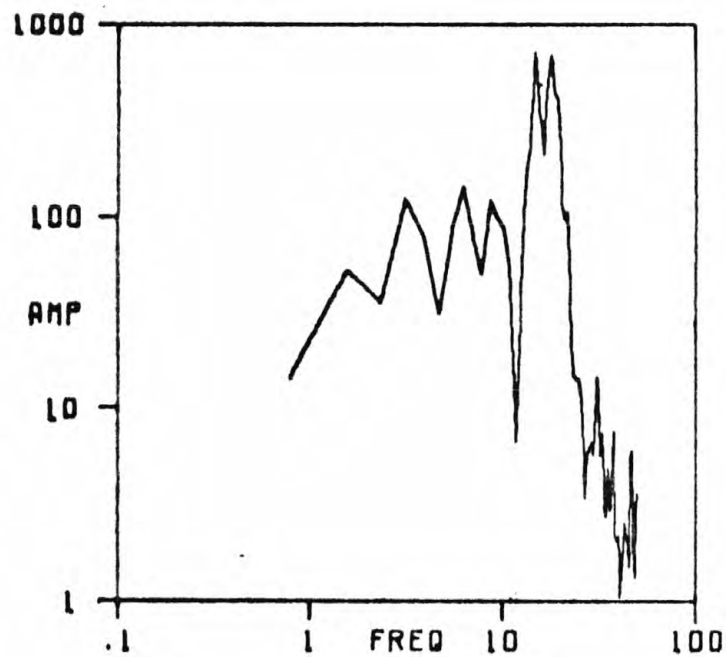
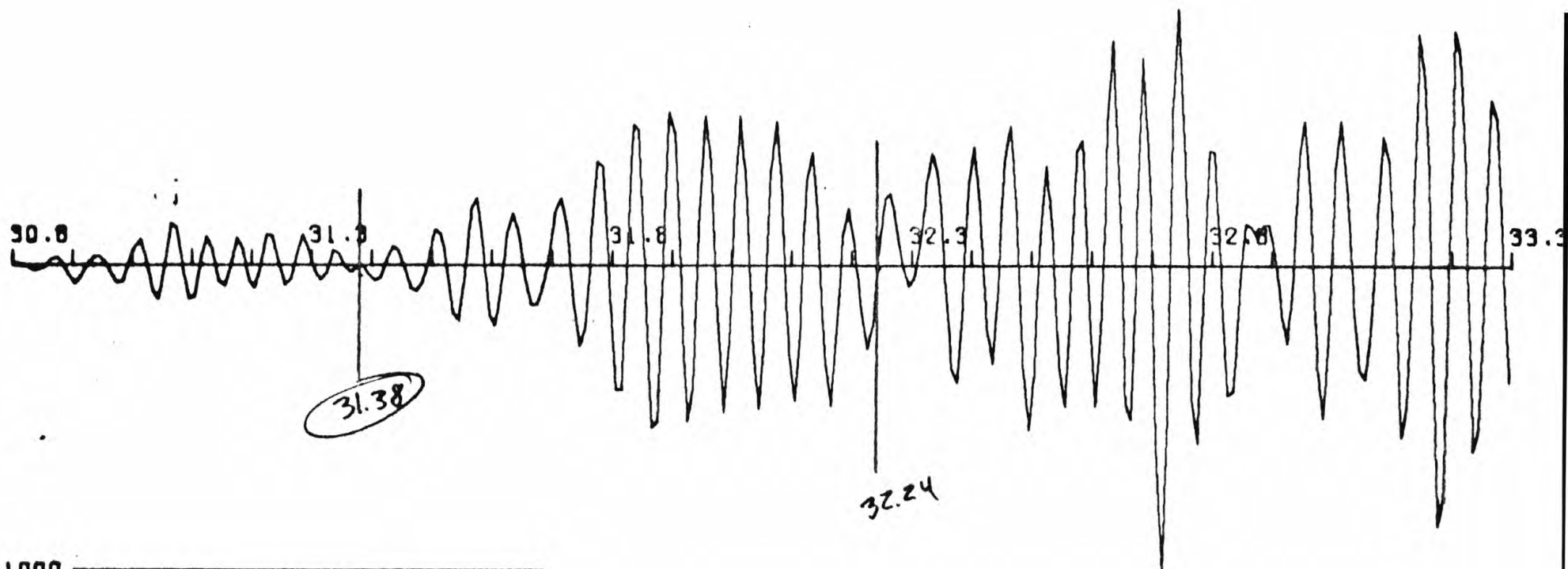
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 2

RECORDER LOCATION 412

DISTANCE FROM SHOT (KM) = -194.074

TSCALE (CM/SEC) = 10.0



SAUDI REFRACTION PROFILE 15.20 BP

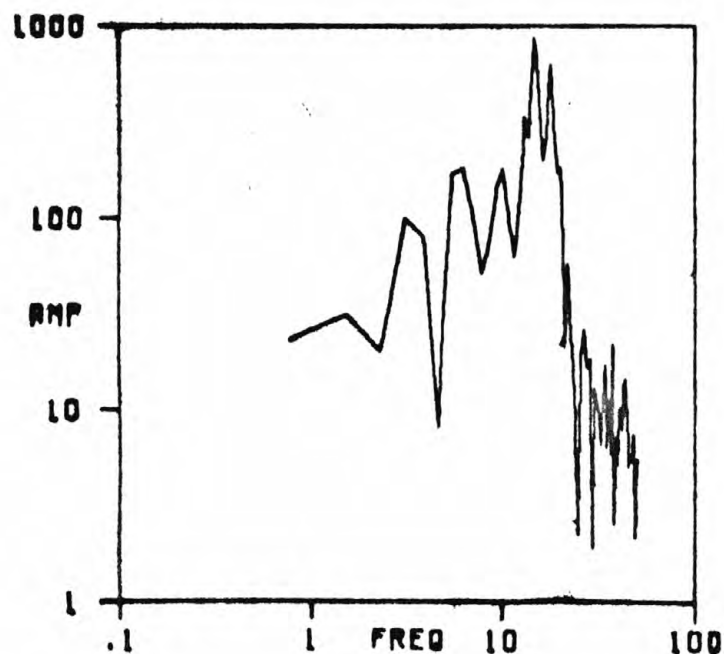
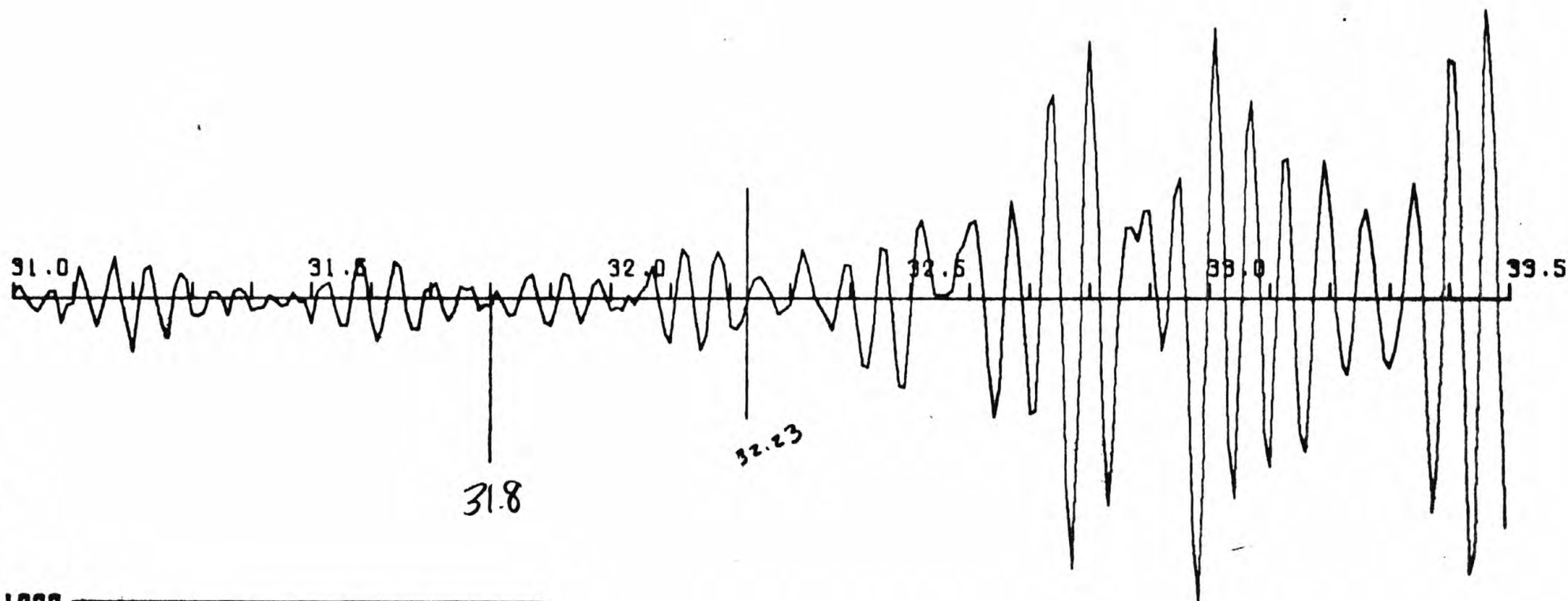
SHOT POINT 2

RECORDER LOCATION 413

DISTANCE FROM SHOT (KM) = -196.246

TSCALE (CM/SEC) = 10.0

327



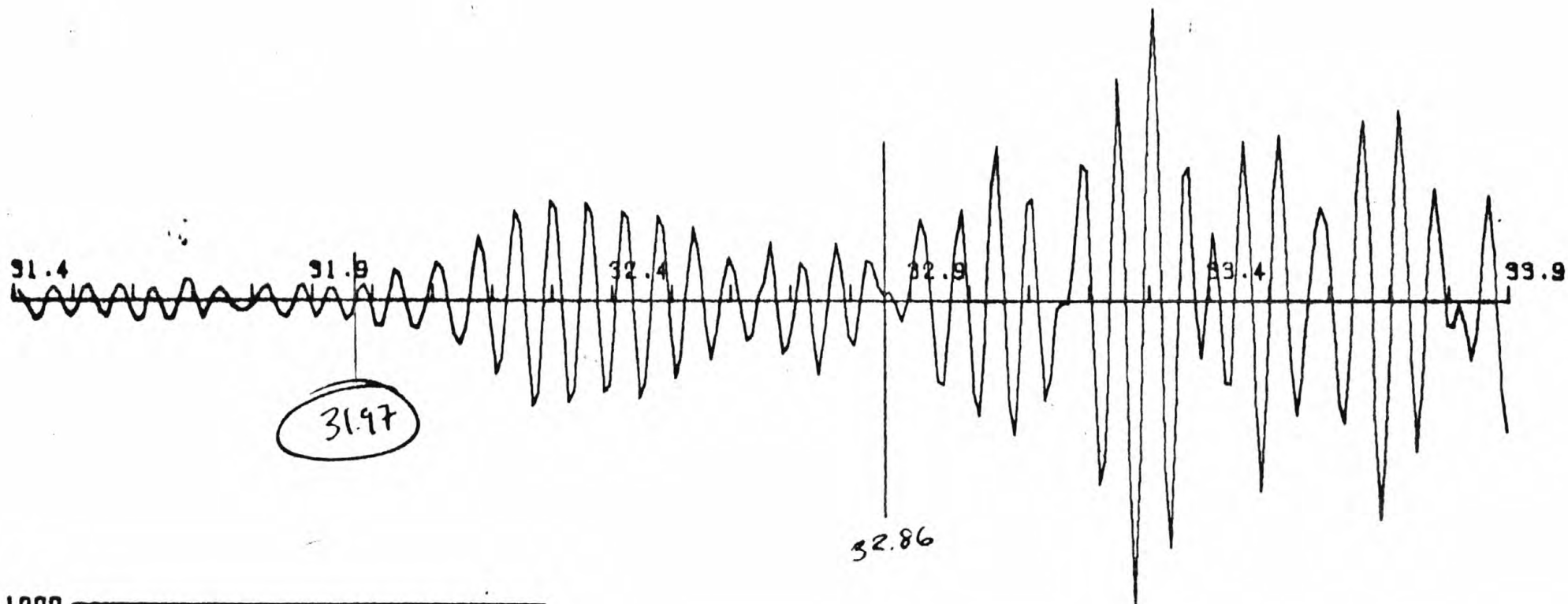
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 2

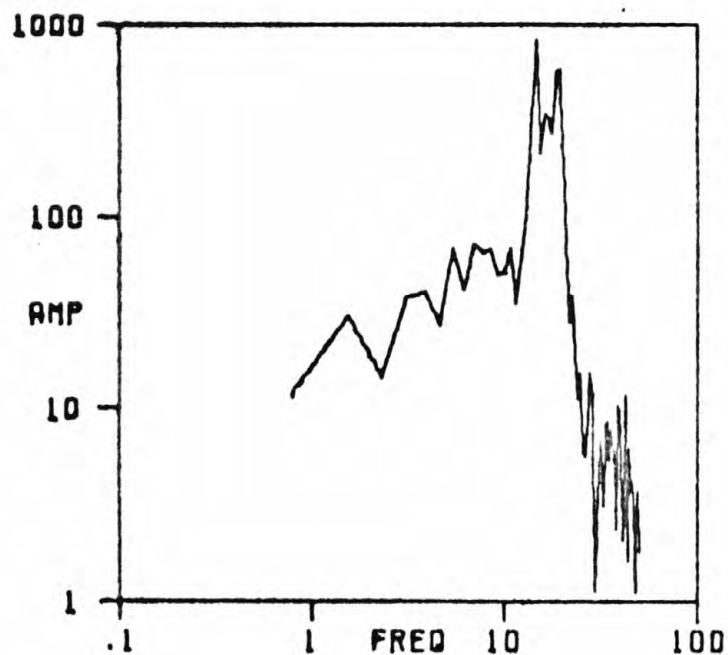
RECORDER LOCATION 414

DISTANCE FROM SHOT (KM) = -197.953

TSCALE (CM/SEC) = 10.0



328



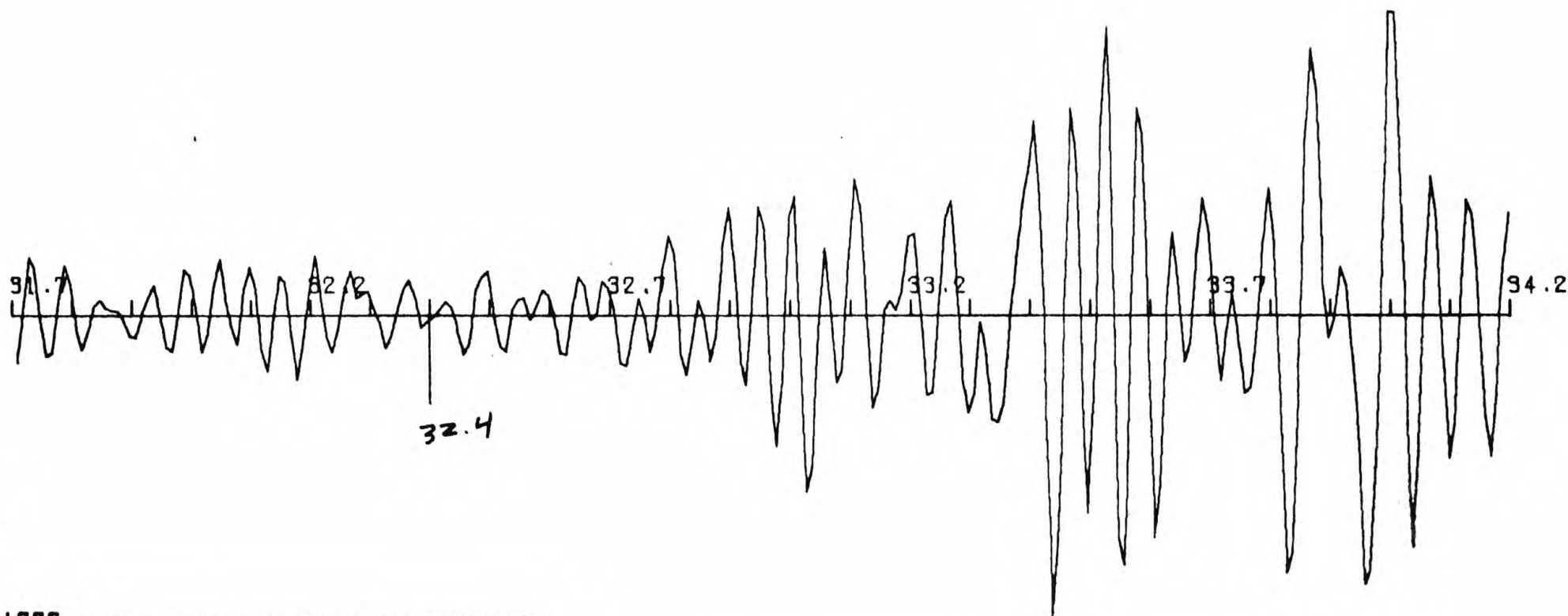
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 2

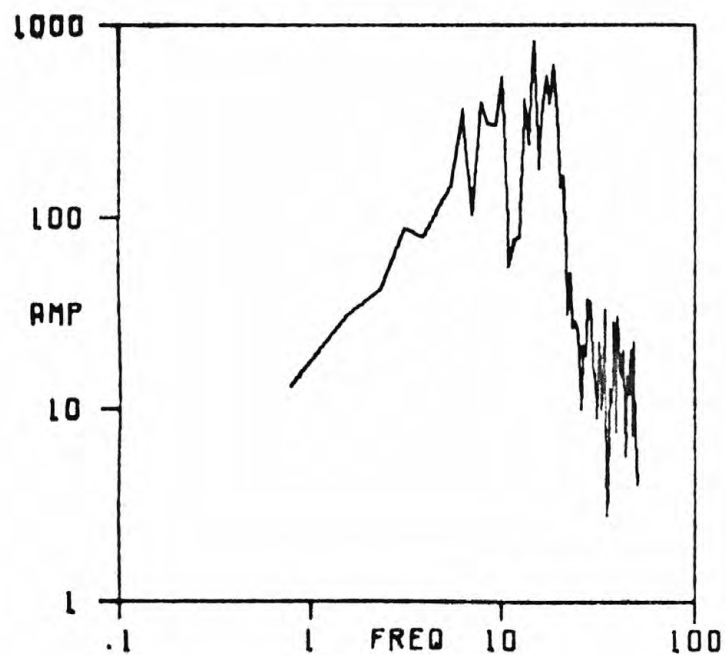
RECORDER LOCATION 415

DISTANCE FROM SHOT (KM) = -199.973

TSCALE (CM/SEC) = 10.0



329



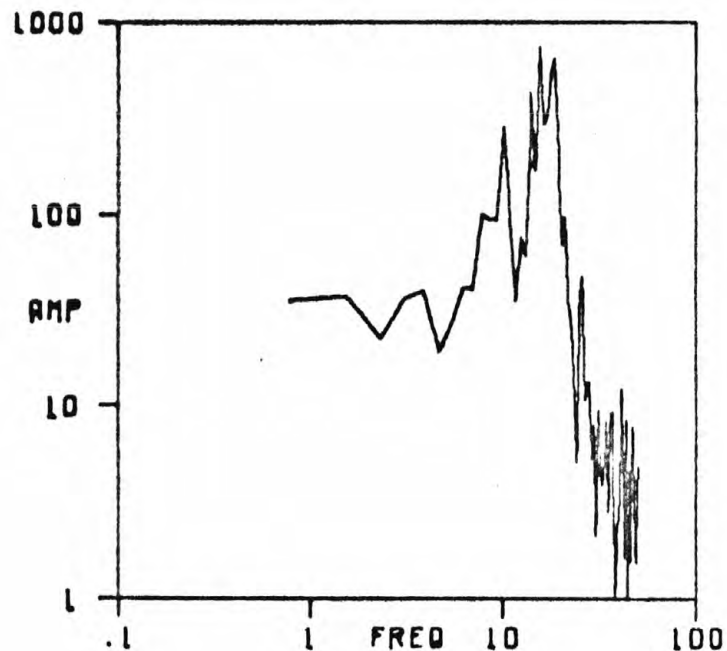
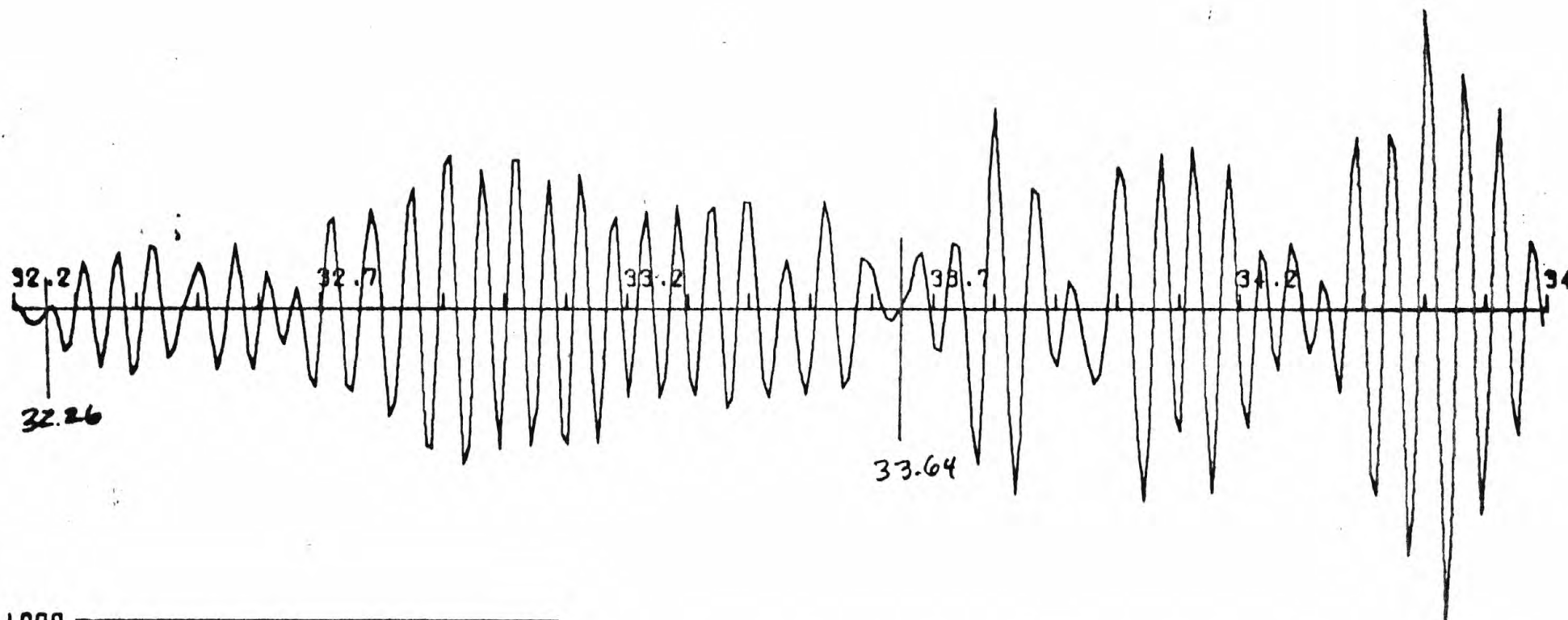
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 2

RECORDER LOCATION 416

DISTANCE FROM SHOT (KM) = -202.015

TS SCALE (CM/SEC) = 10.0



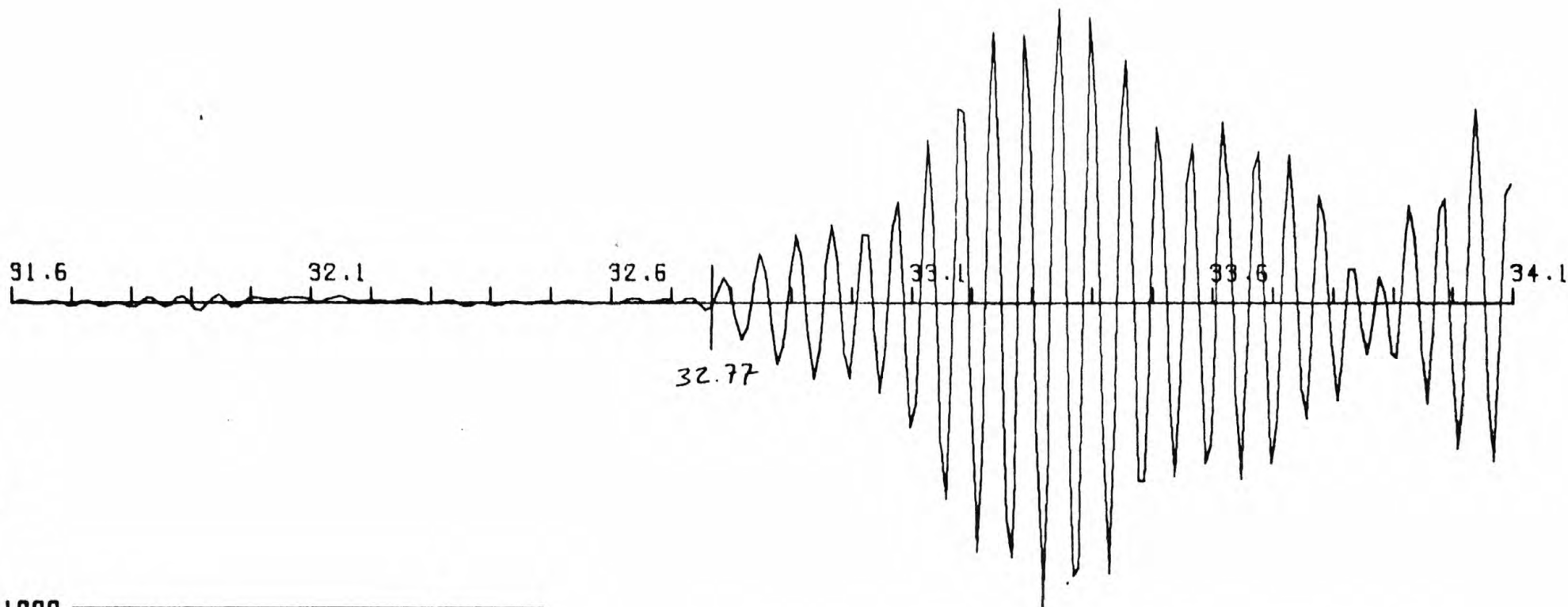
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 2

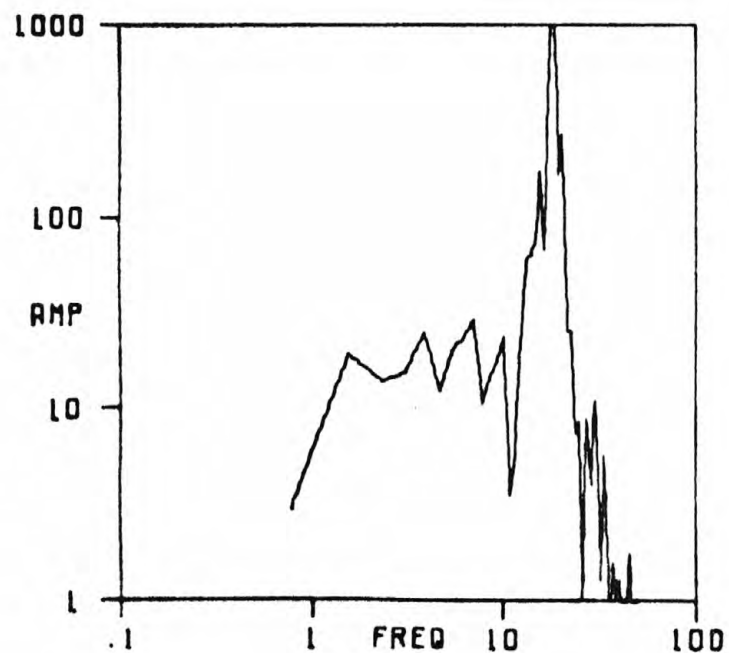
RECORDER LOCATION 417

DISTANCE FROM SHOT (KM) = -205.047

TSCALE (CM/SEC) = 10.0



331



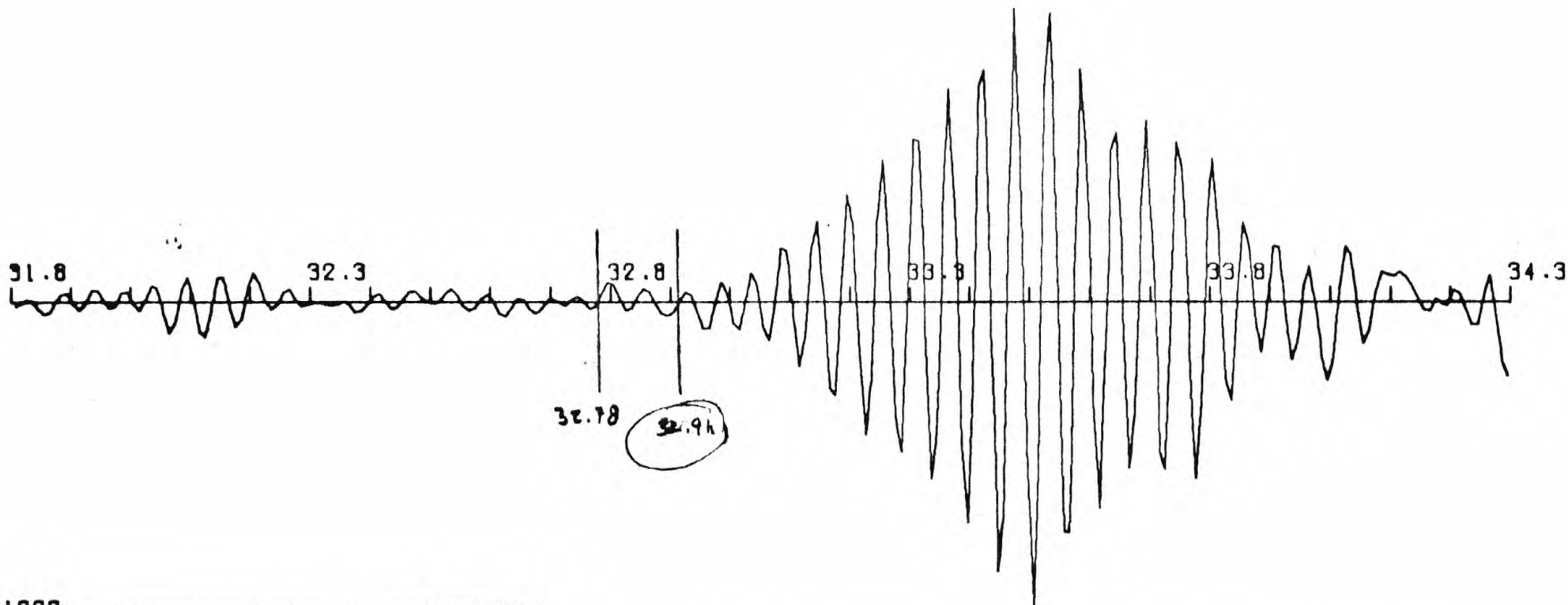
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 2

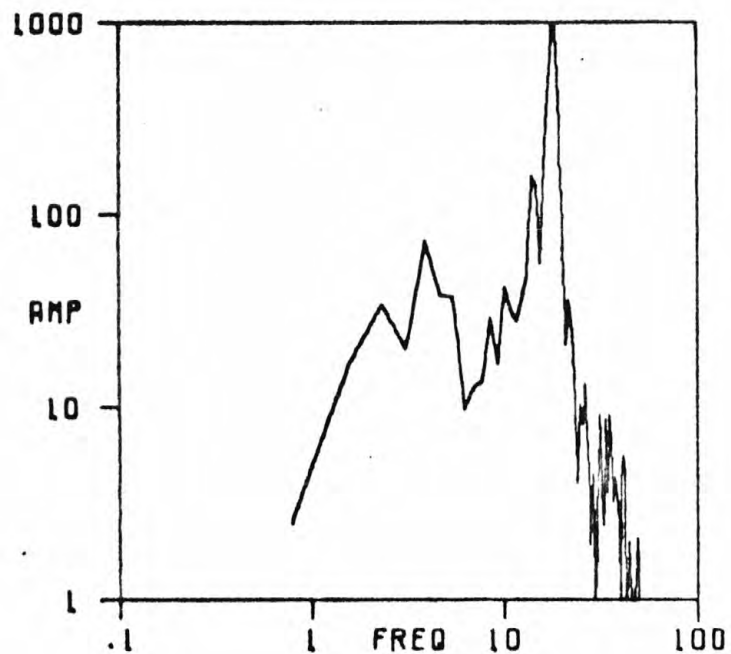
RECORDER LOCATION 418

DISTANCE FROM SHOT (KM) = -207.592

TSCALE (CM/SEC) = 10.0



332



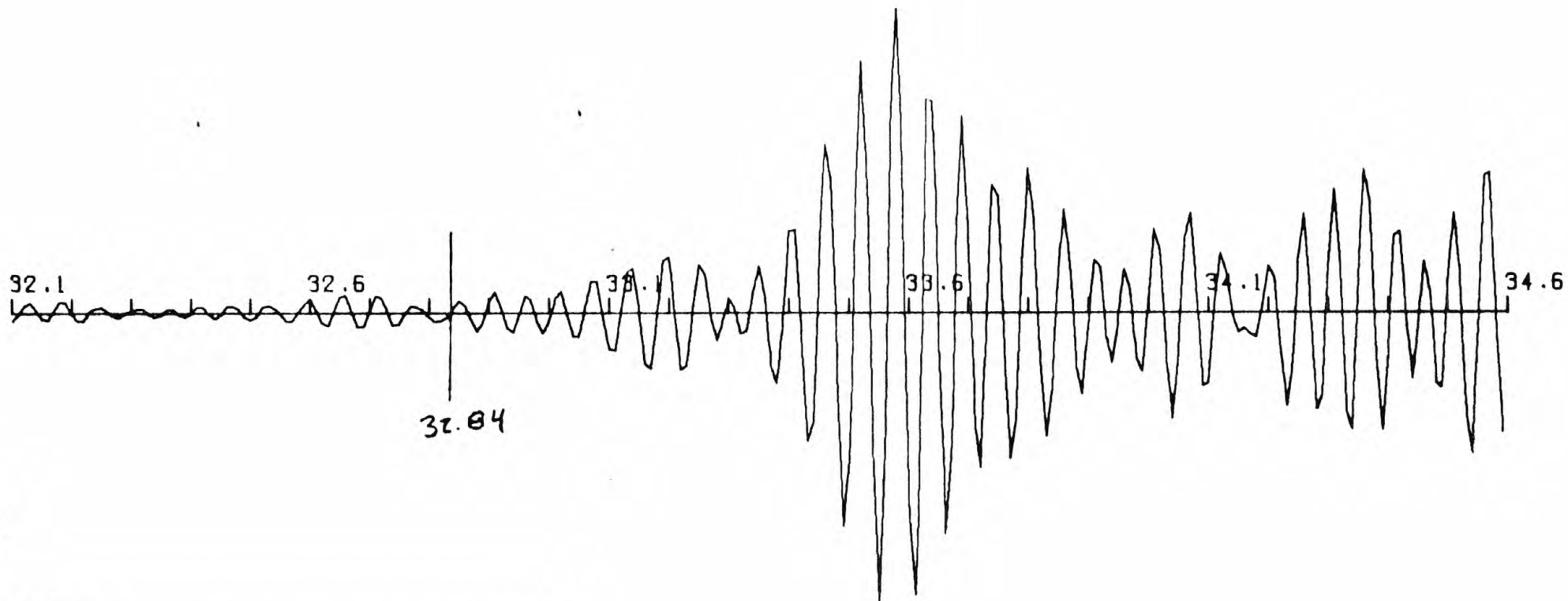
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 2

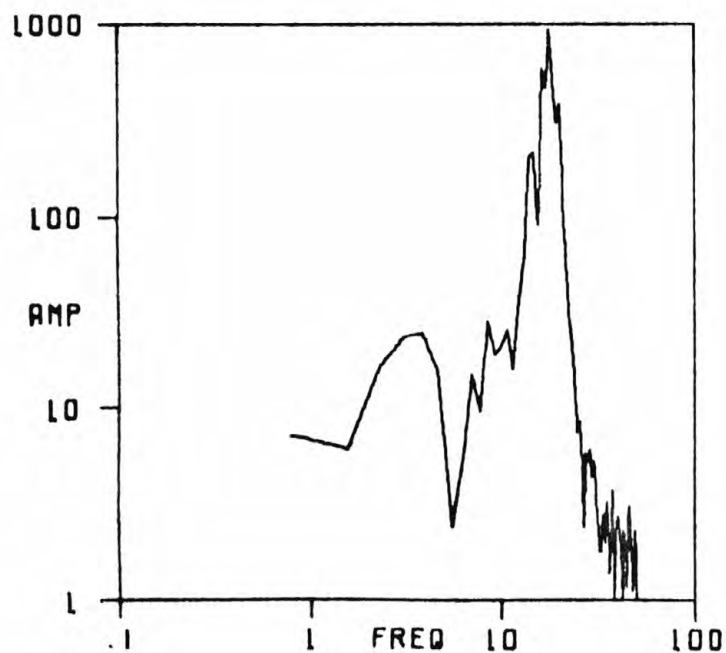
RECORDER LOCATION 419

DISTANCE FROM SHOT (KM) = -208.426

TSCALE (CM/SEC) = 10.0



333



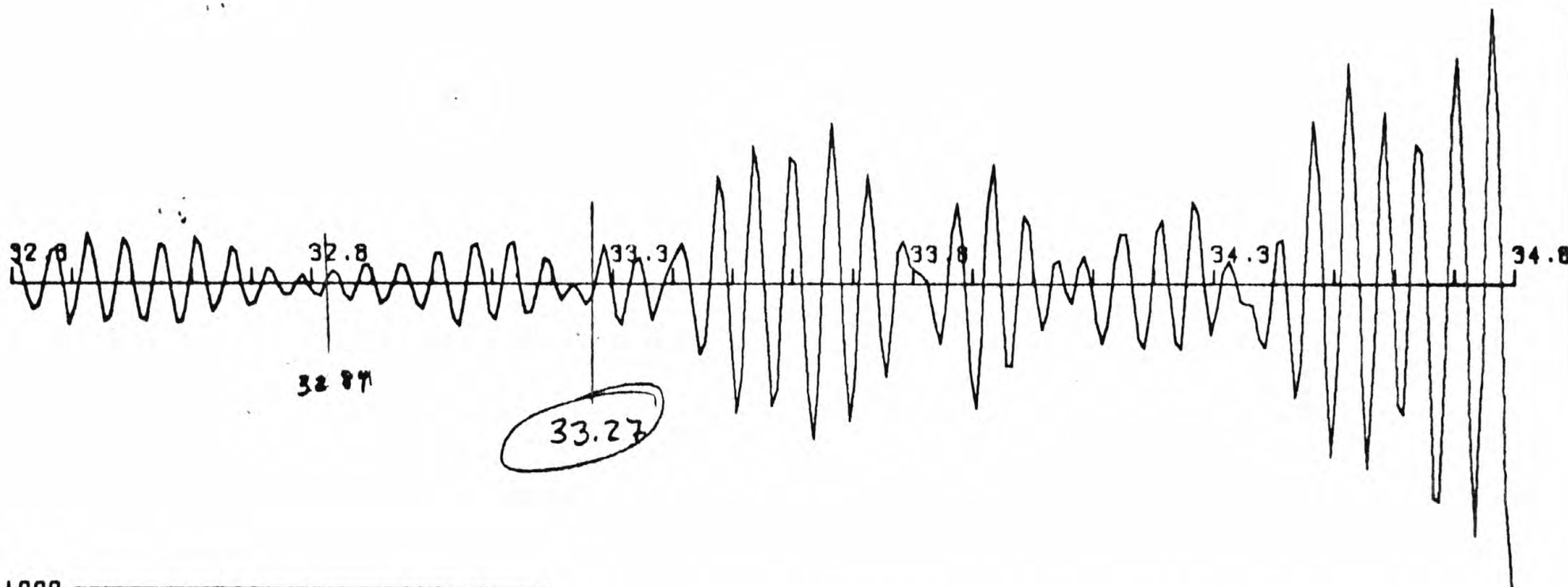
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 2

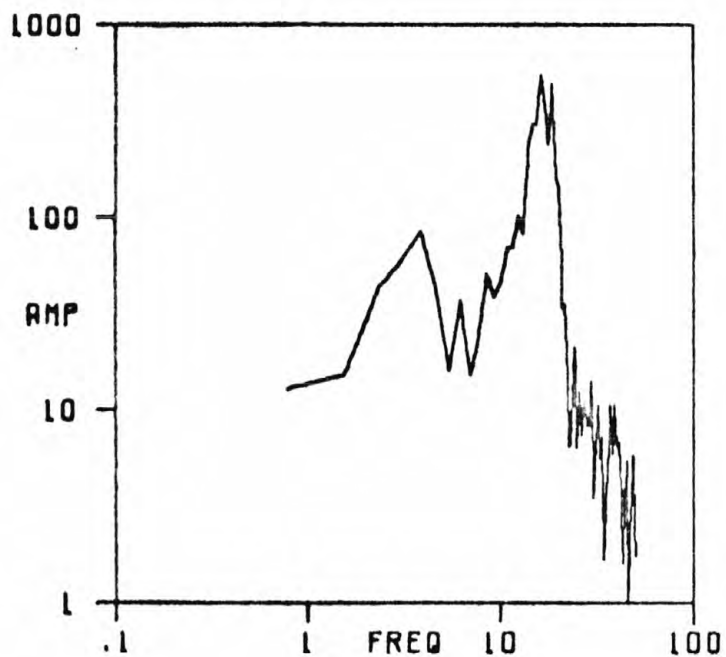
RECORDER LOCATION 420

DISTANCE FROM SHOT (KM) = -210.254

TSCALE (CM/SEC) = 10.0



334



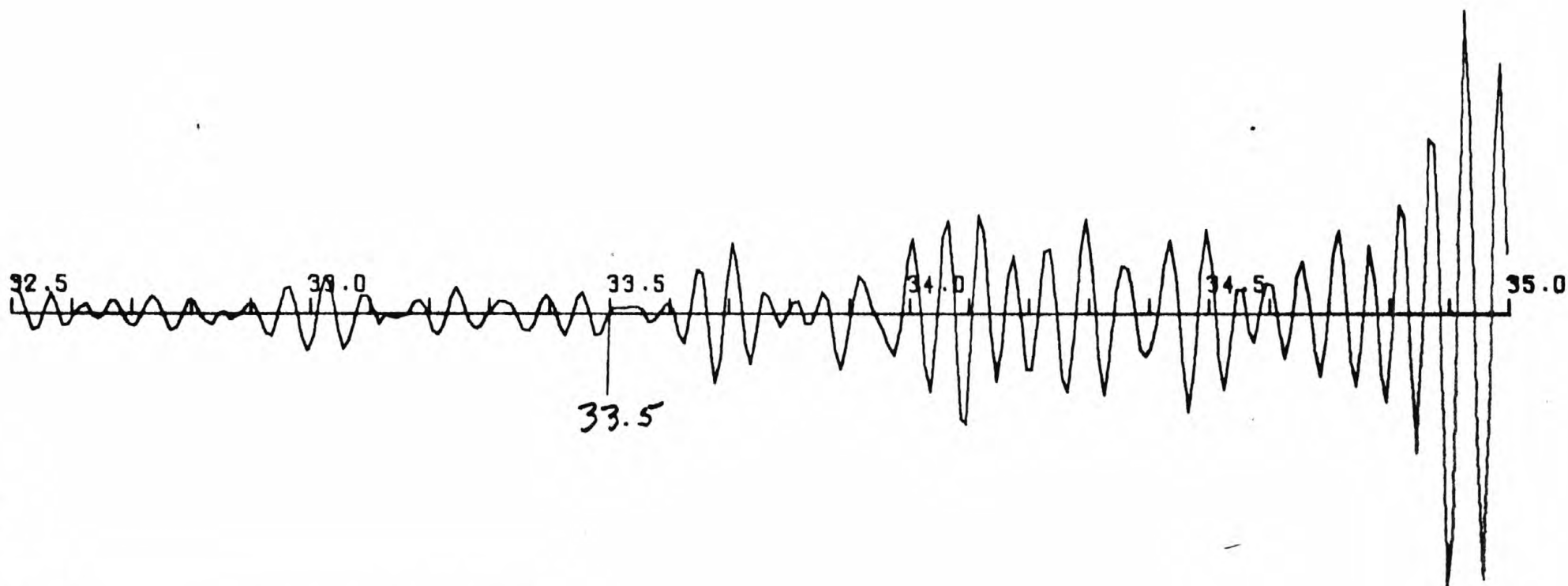
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 2

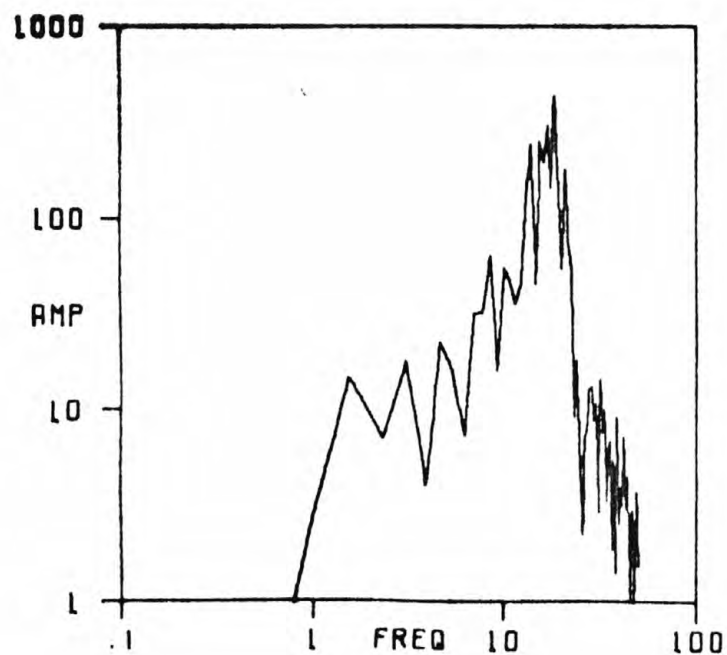
RECORDER LOCATION 421

DISTANCE FROM SHOT (KM) = -211.601

TSCALE (CM/SEC) = 10.0



335



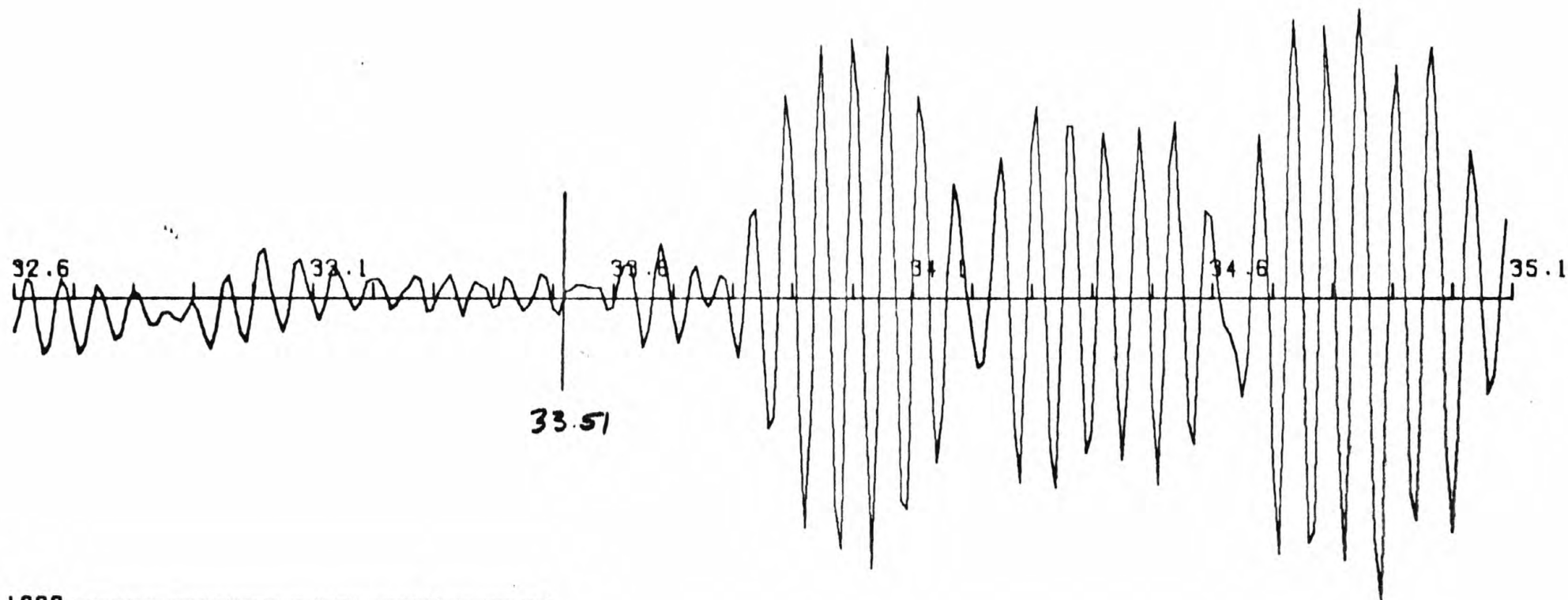
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 2

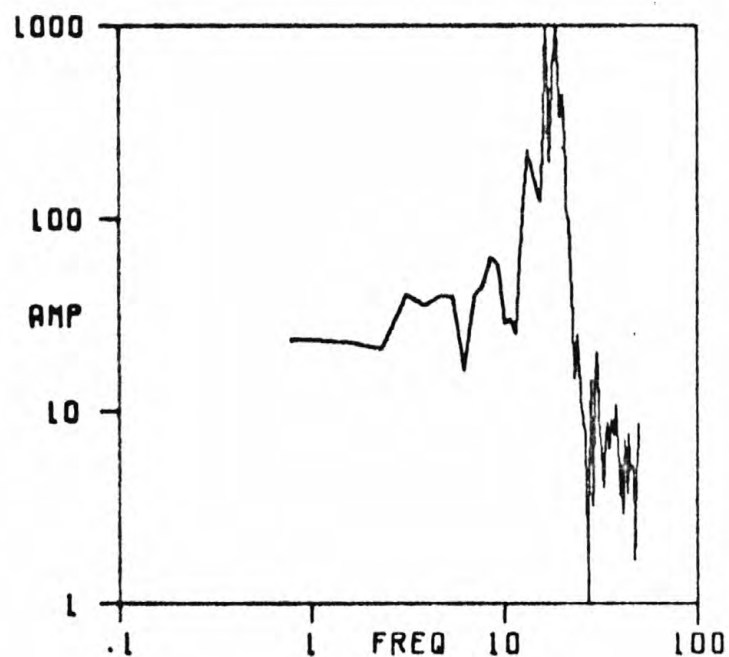
RECORDER LOCATION 422

DISTANCE FROM SHOT (KM) = -212.805

TSCALE (CM/SEC) = 10.0



336



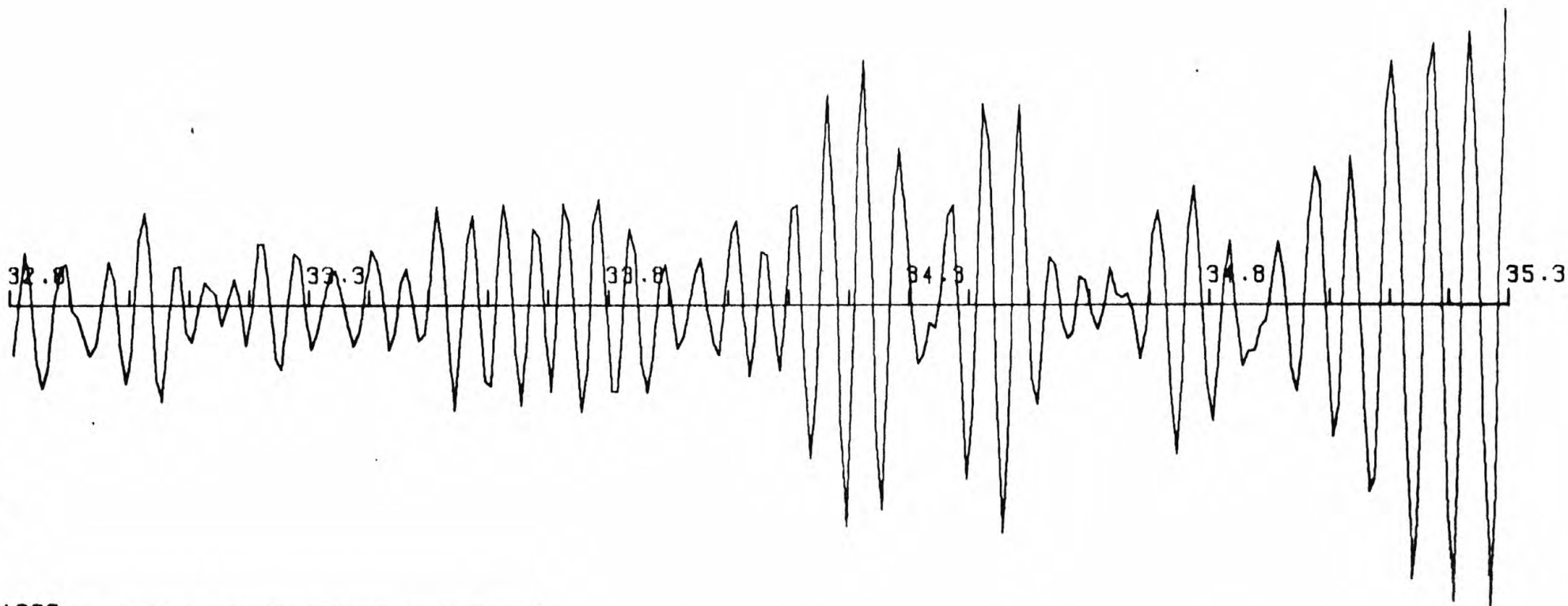
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 2

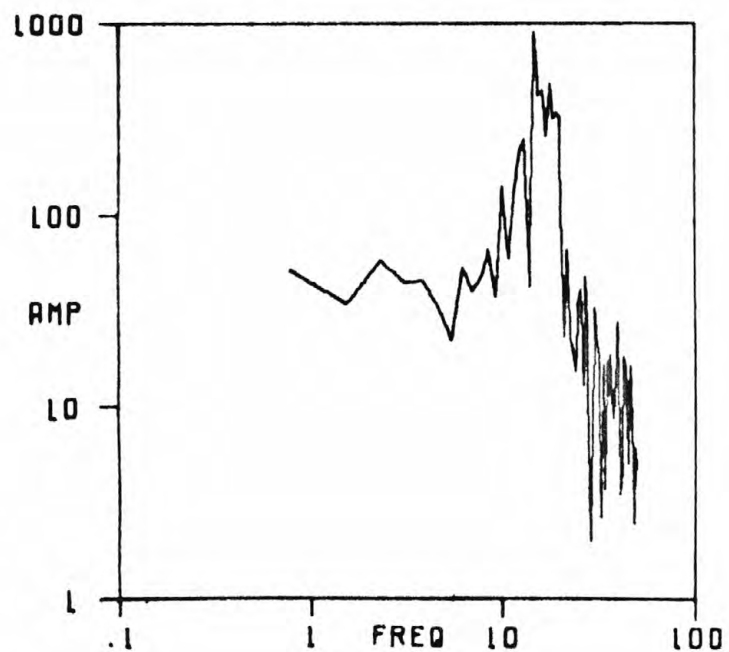
RECORDER LOCATION 423

DISTANCE FROM SHOT (KM) = -213.546

TSCALE (CM/SEC) = 10.0



337



SAUDI REFRACTION PROFILE 15.20 BP

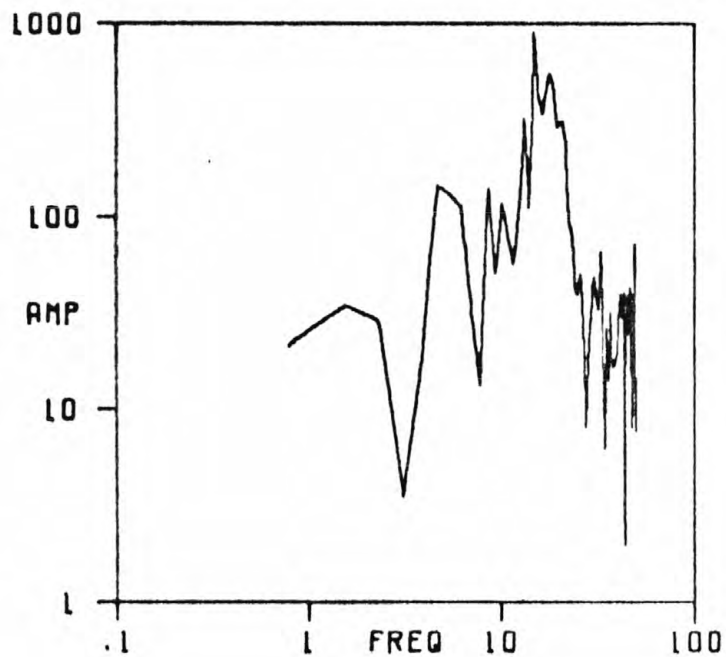
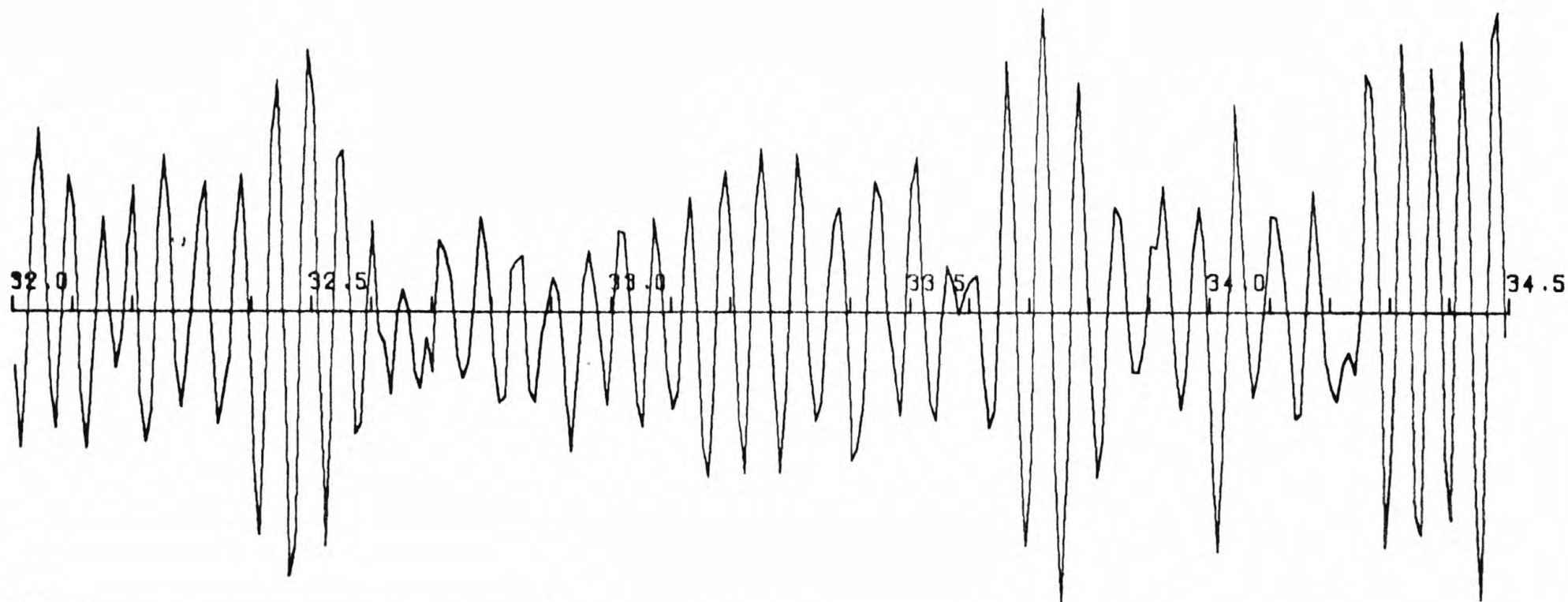
SHOT POINT 2

RECORDER LOCATION 424

DISTANCE FROM SHOT (KM) = -214.539

TSCALE (CM/SEC) = 10.0

338



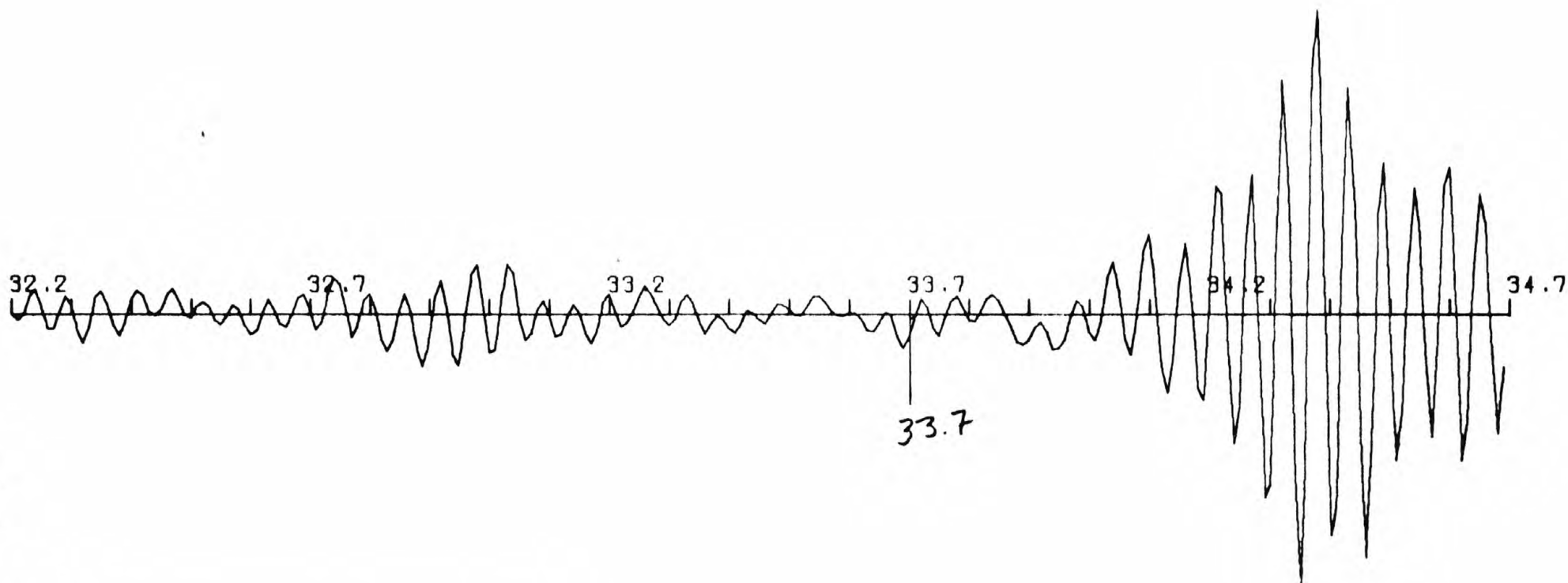
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 2

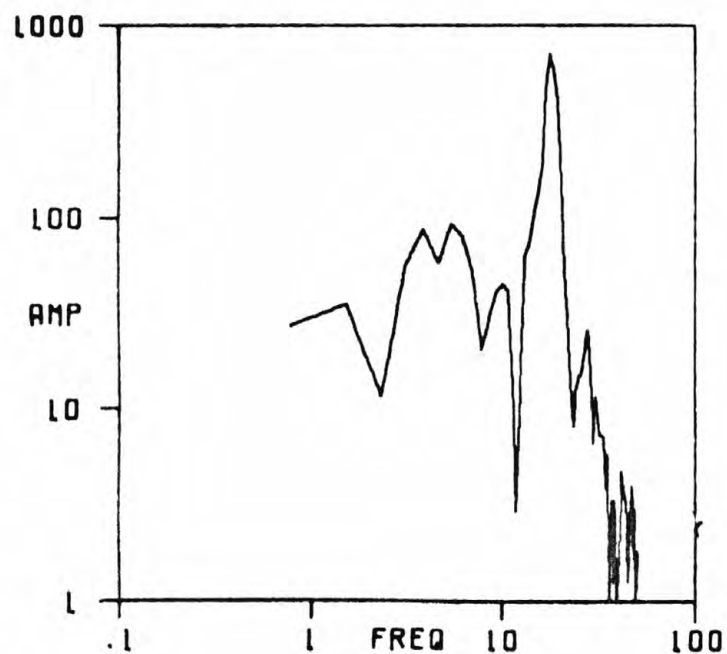
RECORDER LOCATION 425

DISTANCE FROM SHOT (KM) = -215.786

TSCALE (CM/SEC) = 10.0



339



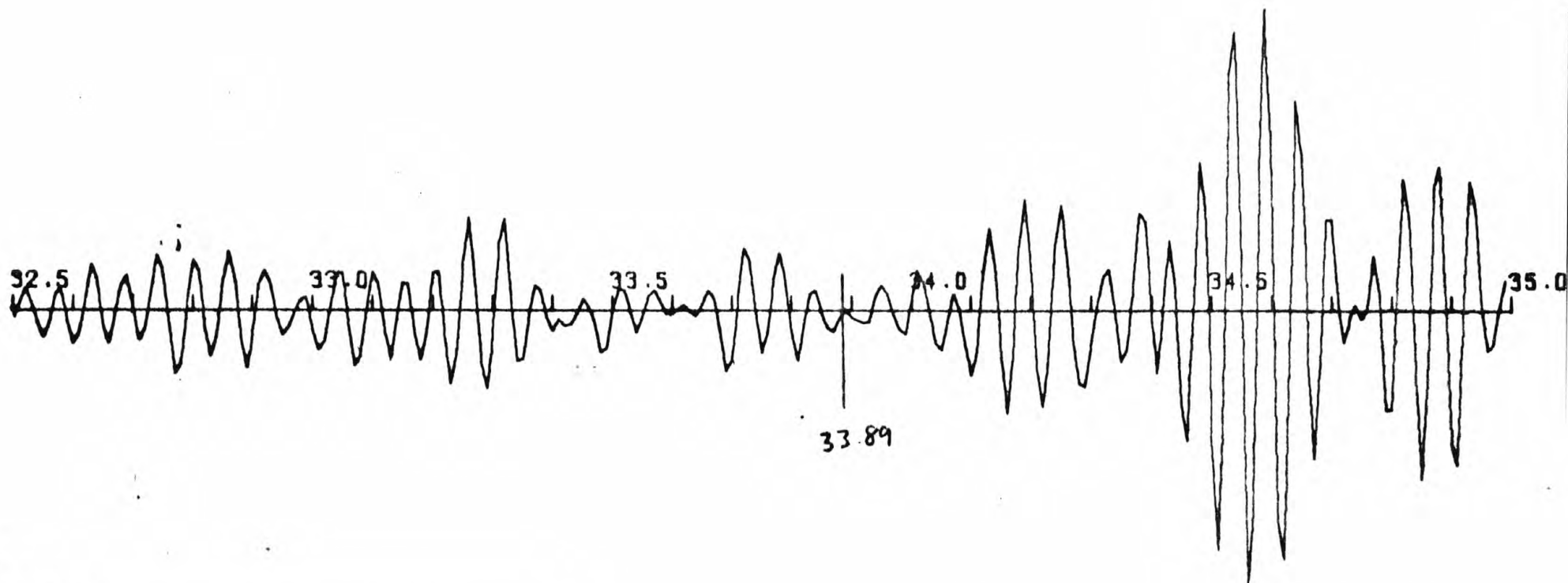
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 2

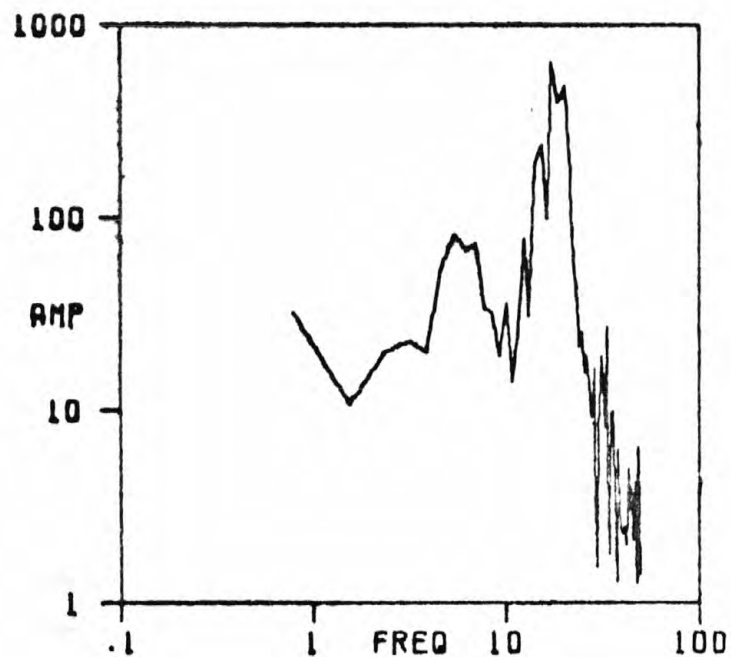
RECORDER LOCATION 426

DISTANCE FROM SHOT (KM) = -217.030

TSCALE (CM/SEC) = 10.0



340



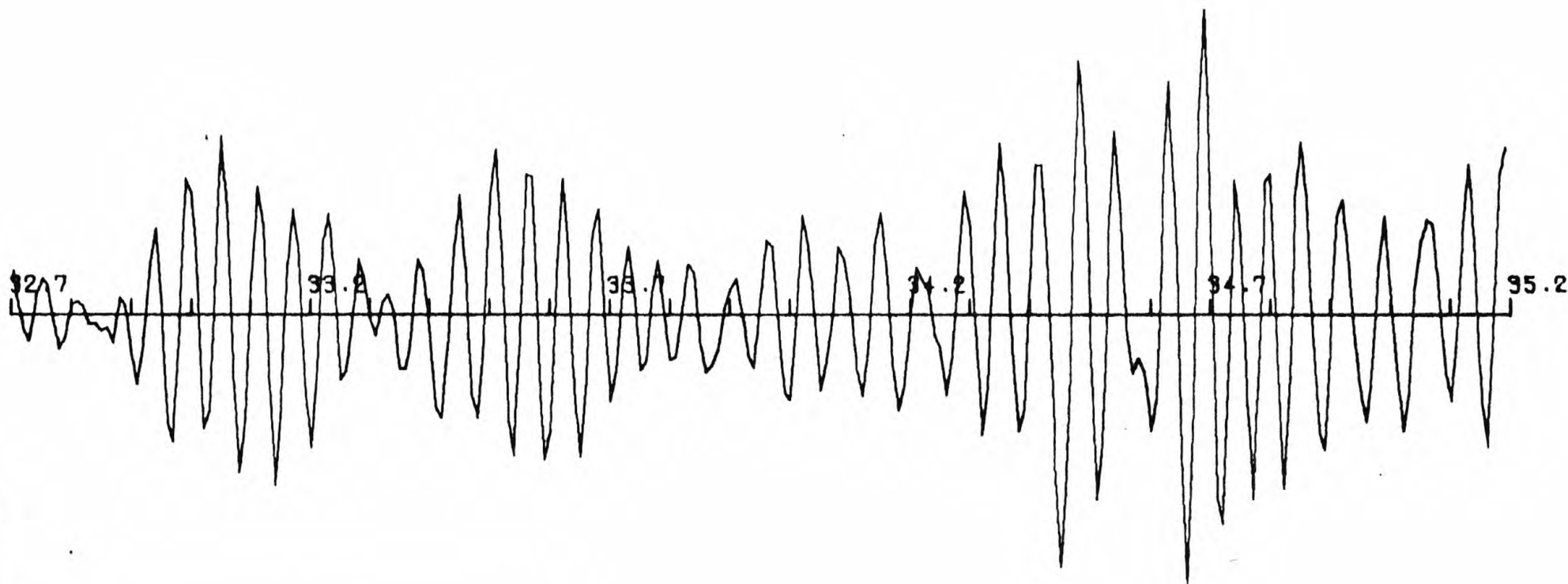
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 2

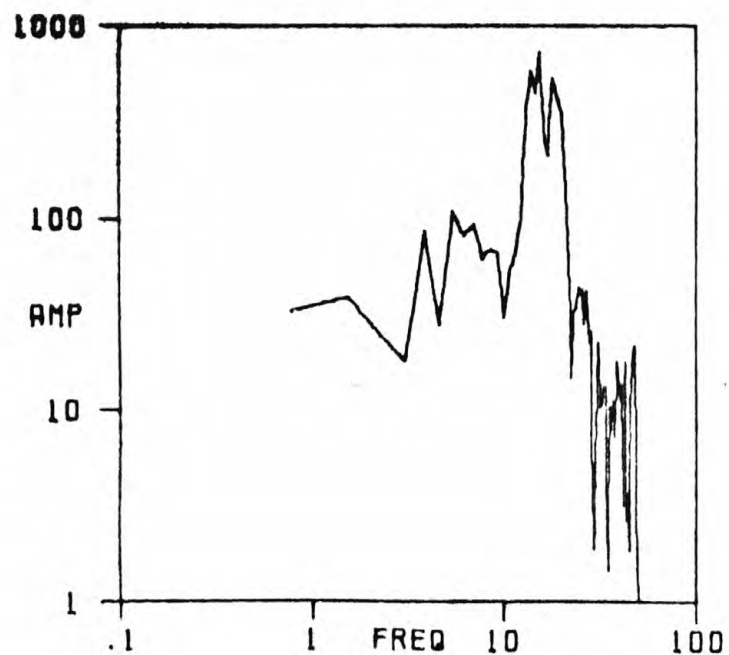
RECORDER LOCATION 427

DISTANCE FROM SHOT (KM) = -218.535

TSCALE (CM/SEC) = 10.0



341



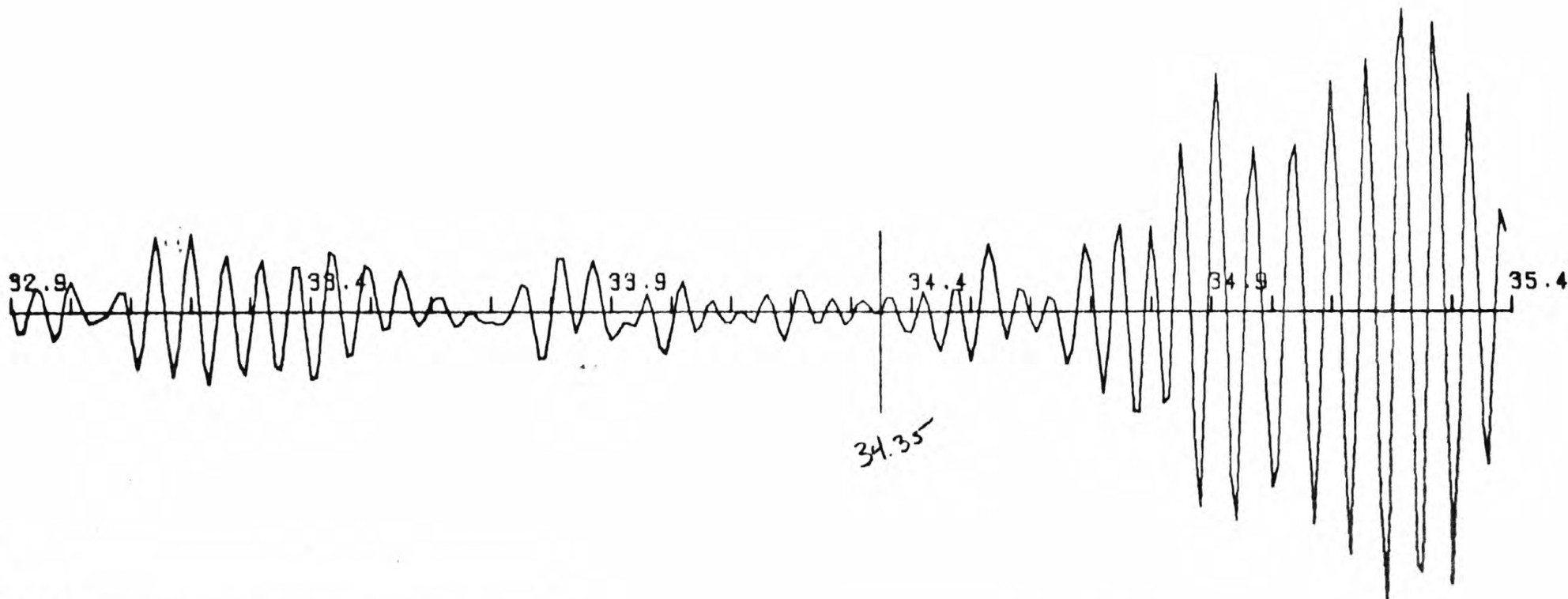
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 2

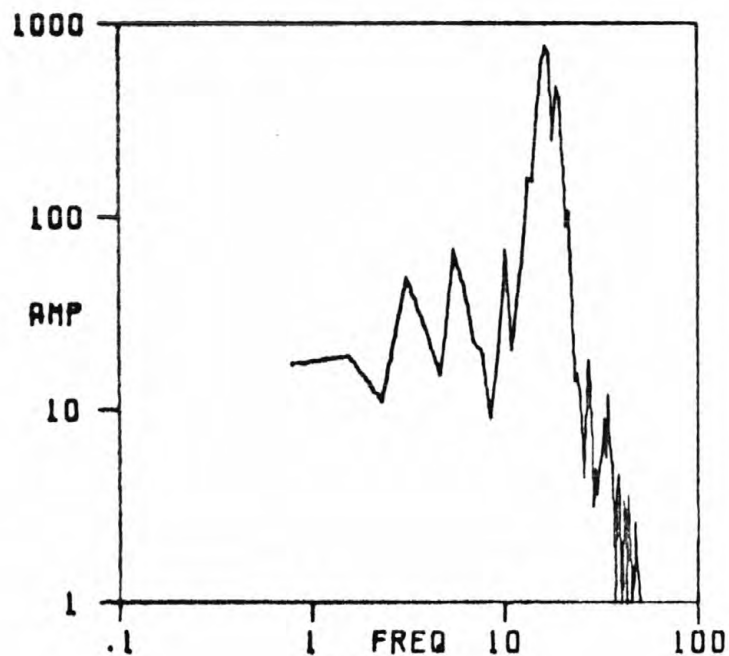
RECORDER LOCATION 428

DISTANCE FROM SHOT (KM) = -219.678

TSCALE (CM/SEC) = 10.0



342



SAUDI REFRACTION PROFILE 15.20 BP

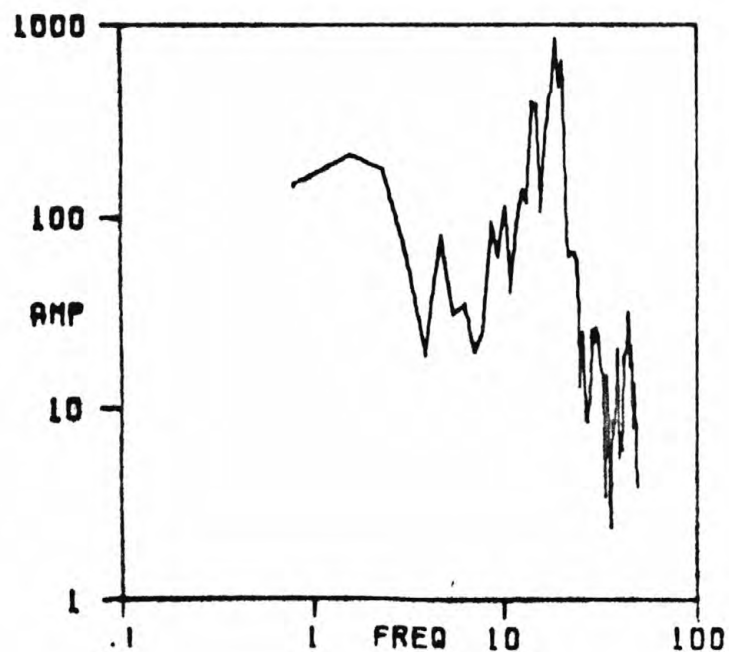
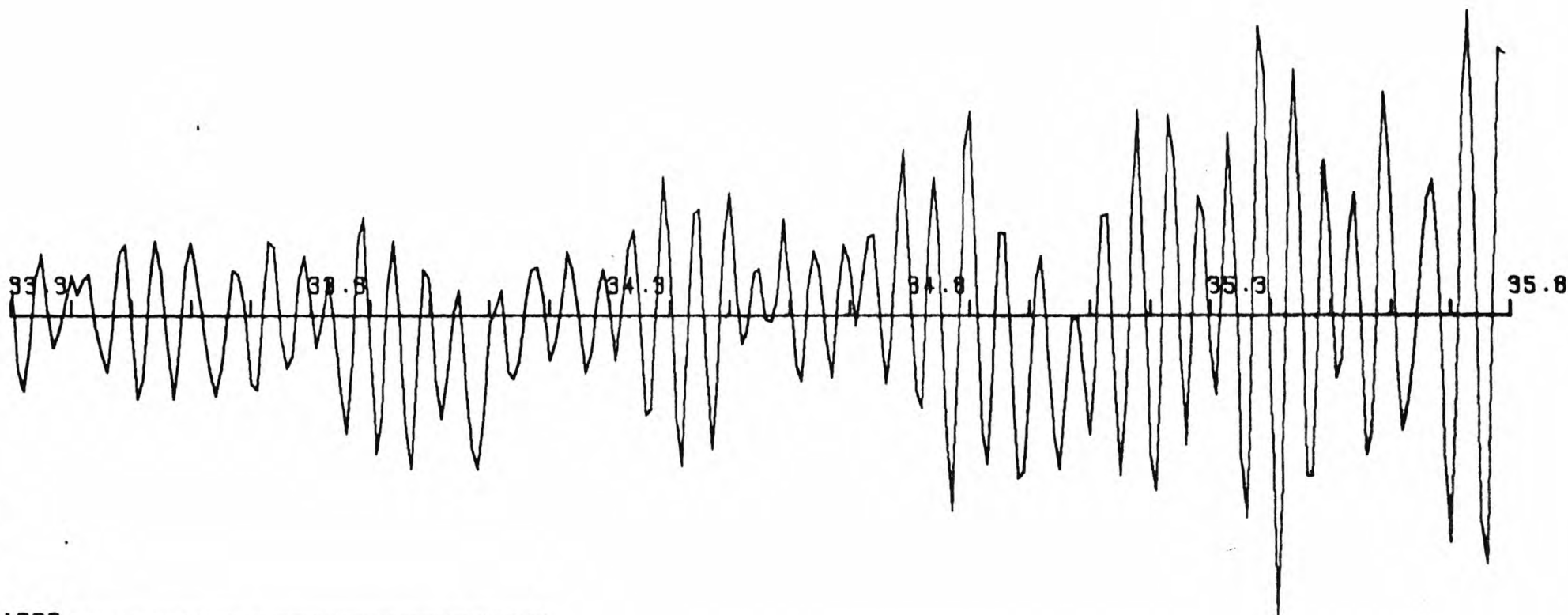
SHOT POINT 2

RECORDER LOCATION 429

DISTANCE FROM SHOT (KM) ≈ -221.296

TSCALE (CM/SEC) ≈ 10.0

343



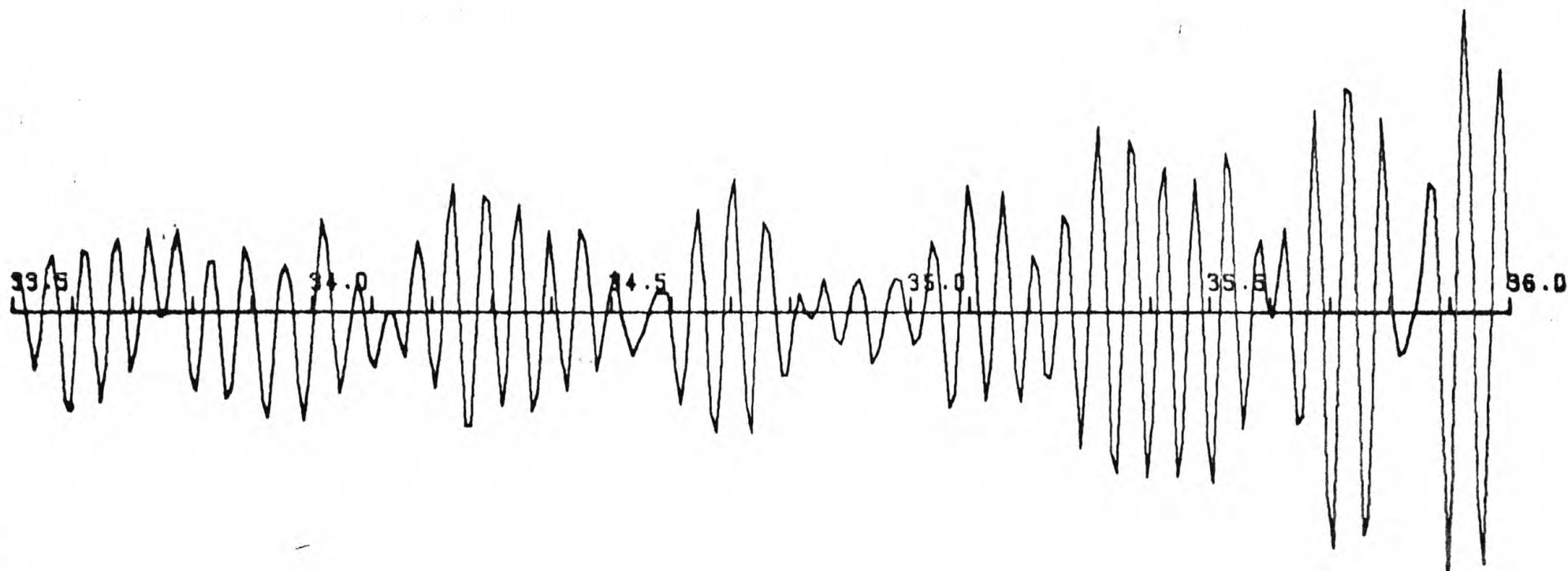
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 2

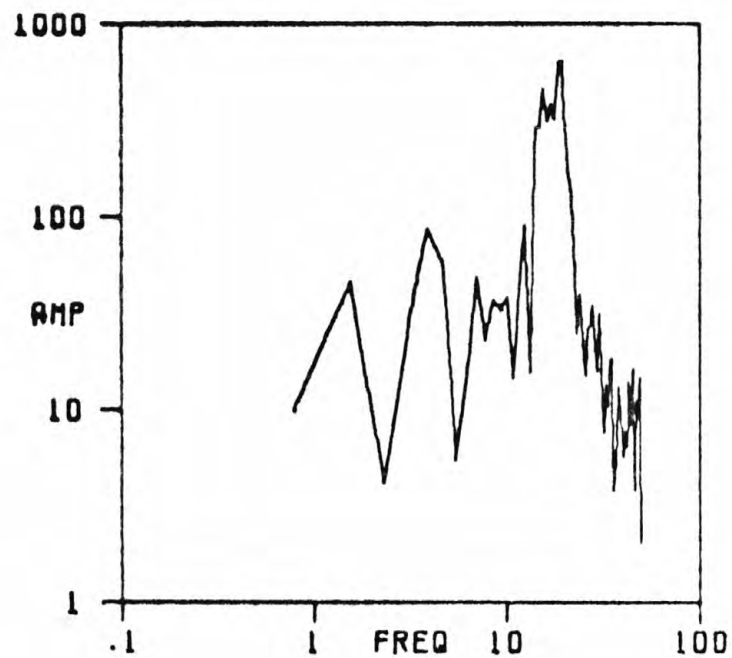
RECORDER LOCATION 490

DISTANCE FROM SHOT (KM) ≈ -229.211

TSCALE (CM/SEC) ≈ 10.0



344



SAUDI REFRACTION PROFILE 15.20 BP

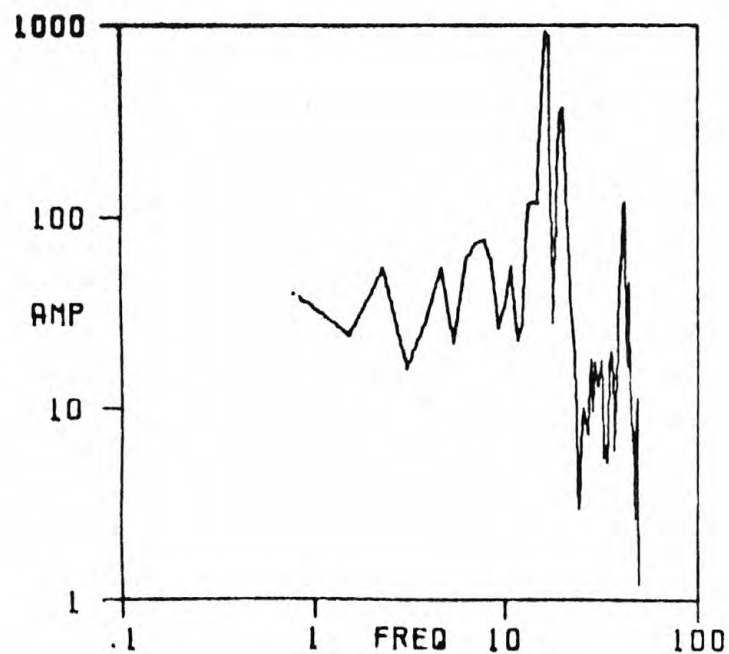
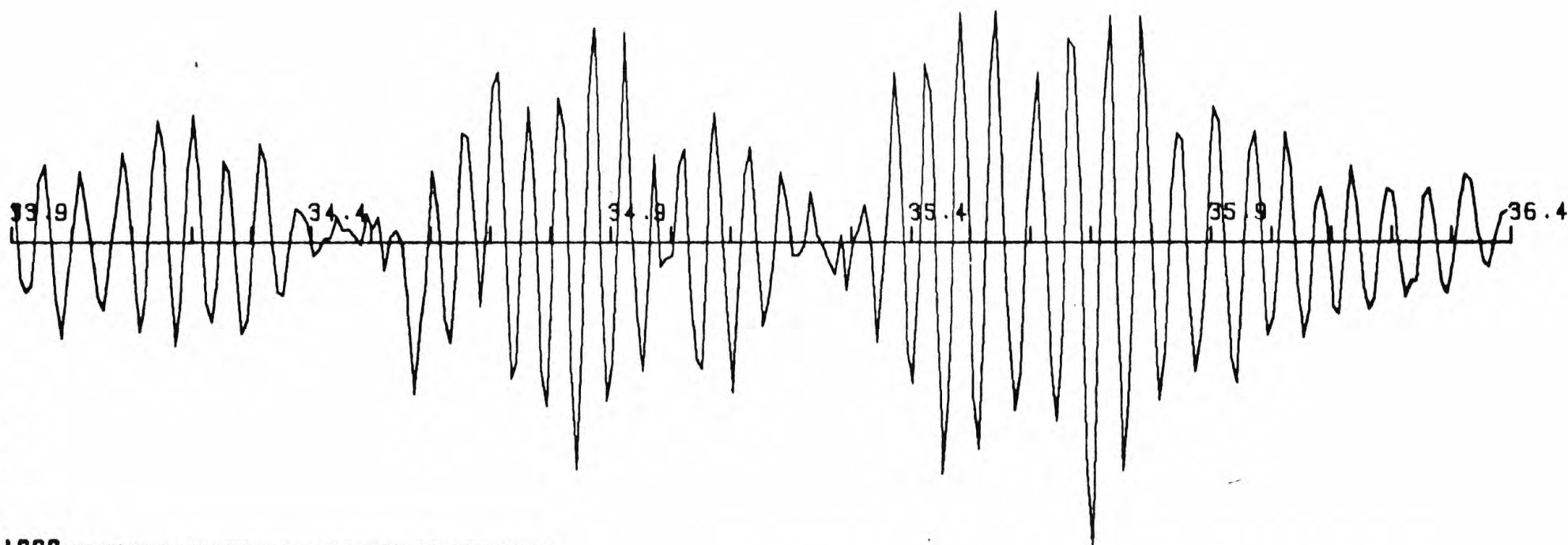
SHOT POINT 2

RECORDER LOCATION 491

DISTANCE FROM SHOT (KM) = -224.867

TSCALE (CM/SEC) = 10.0

345



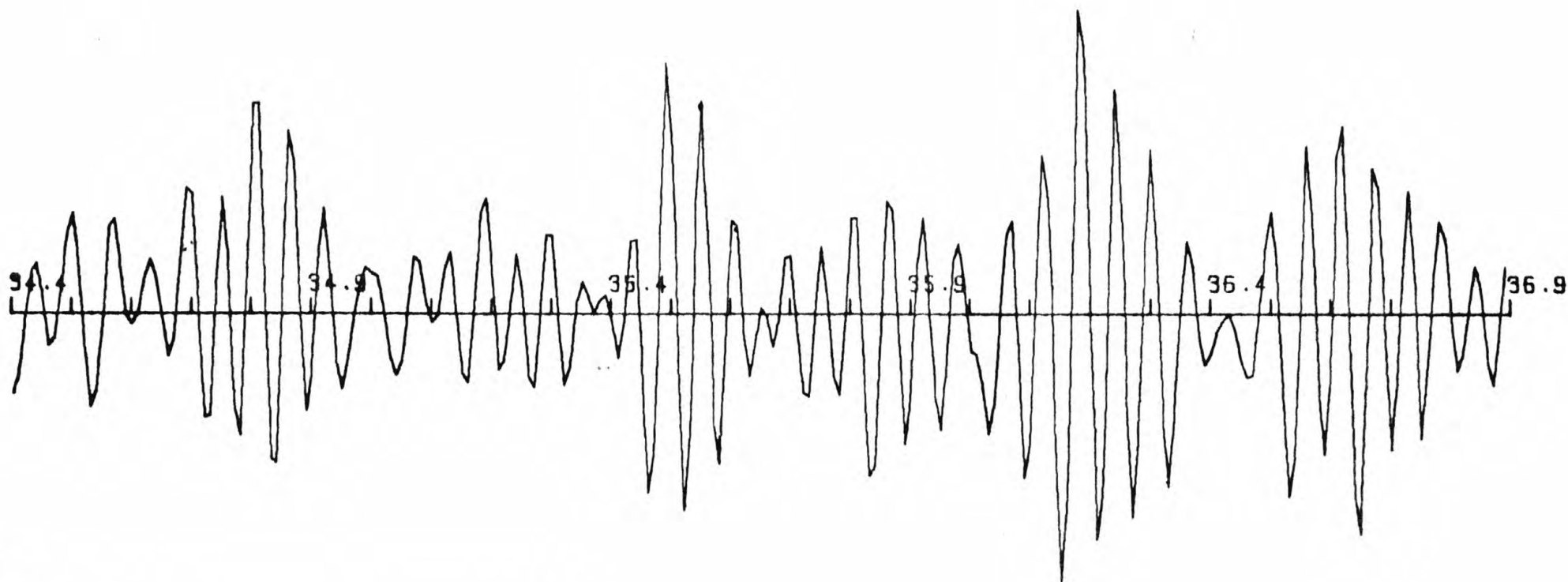
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 2

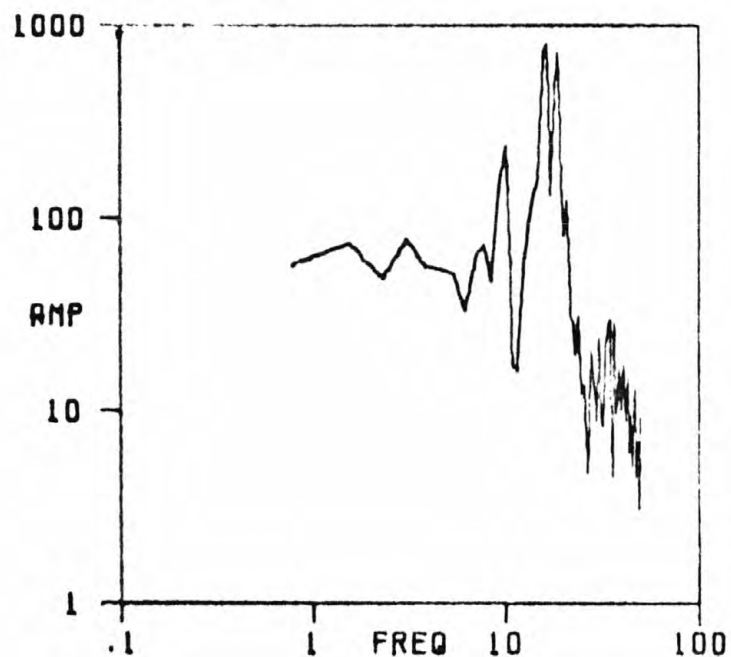
RECORDER LOCATION 492

DISTANCE FROM SHOT (KM) = -227.133

TSCALE (CM/SEC) = 10.0



346



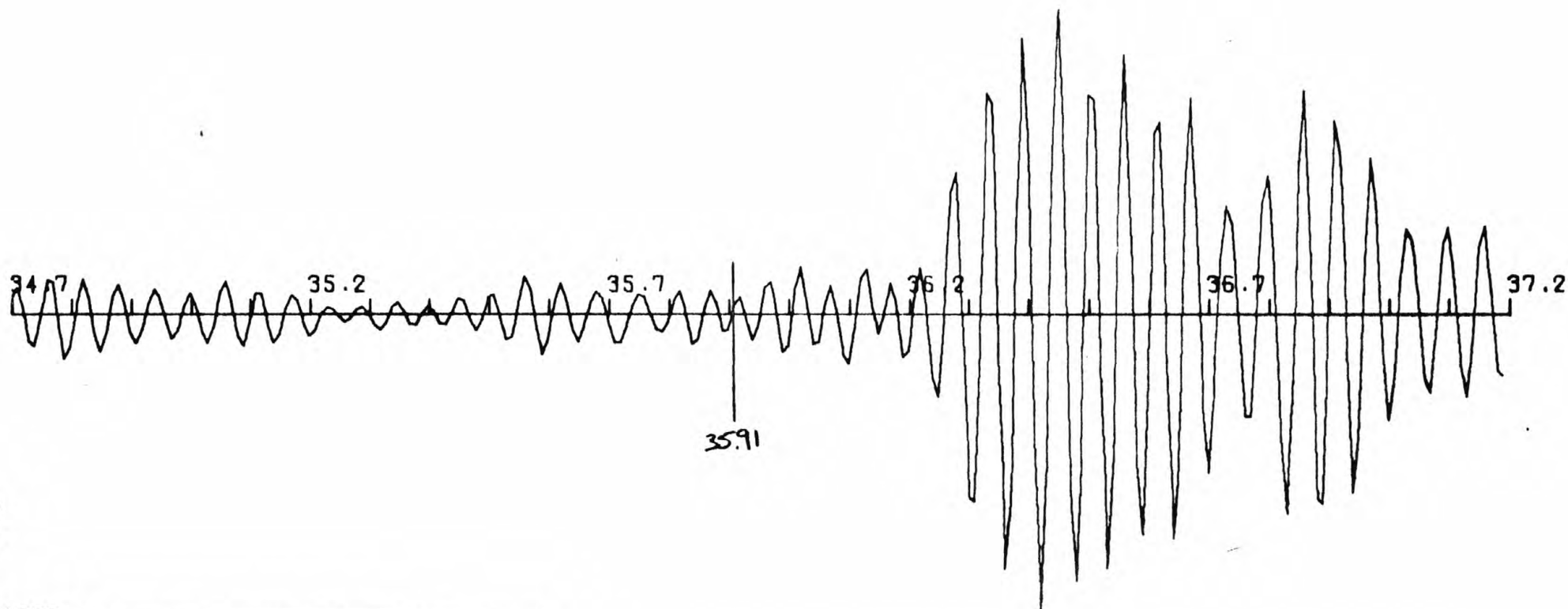
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 2

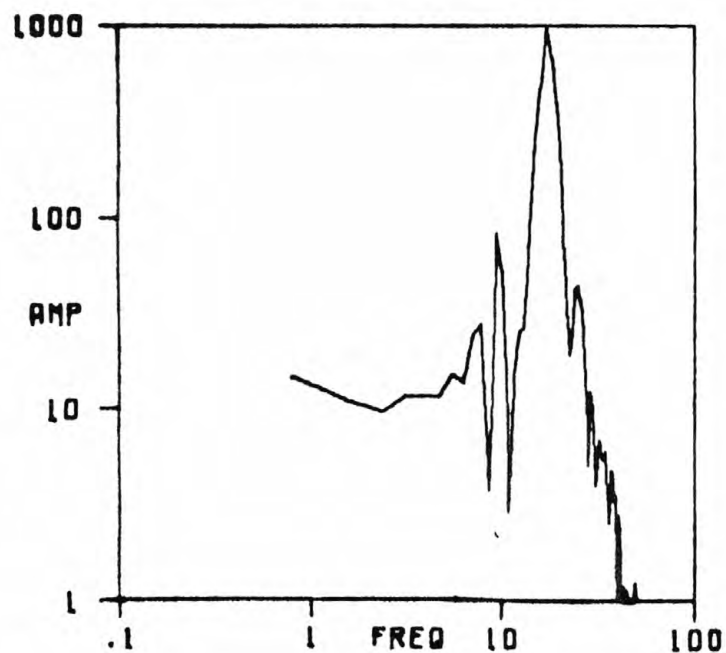
RECORDER LOCATION 493

DISTANCE FROM SHOT (KM) = -229.884

TSCALE (CM/SEC) = 10.0



347



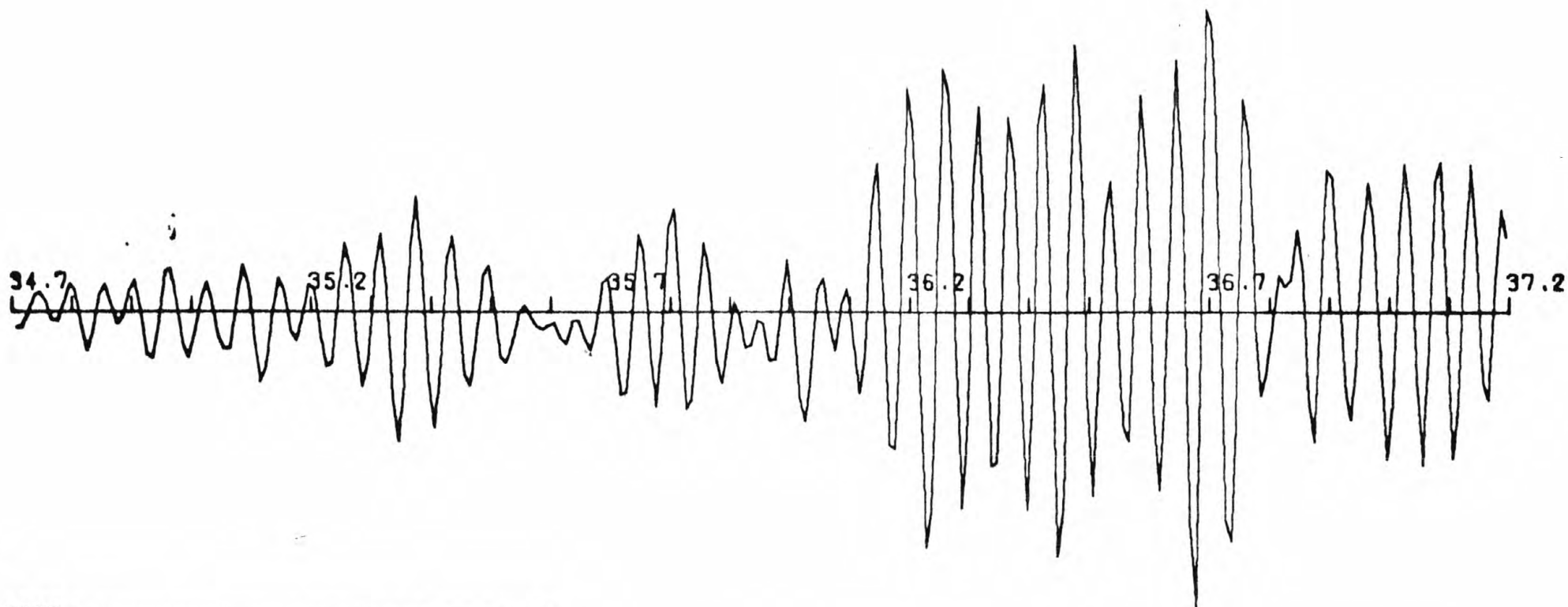
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 2

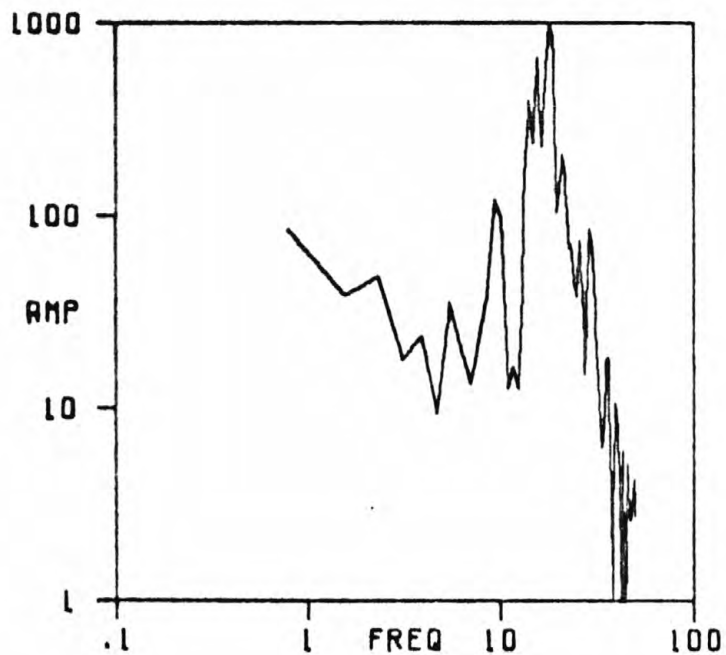
RECORDER LOCATION 434

DISTANCE FROM SHOT (KM) = -231.600

TSCALE (CM/SEC) = 10.0



348



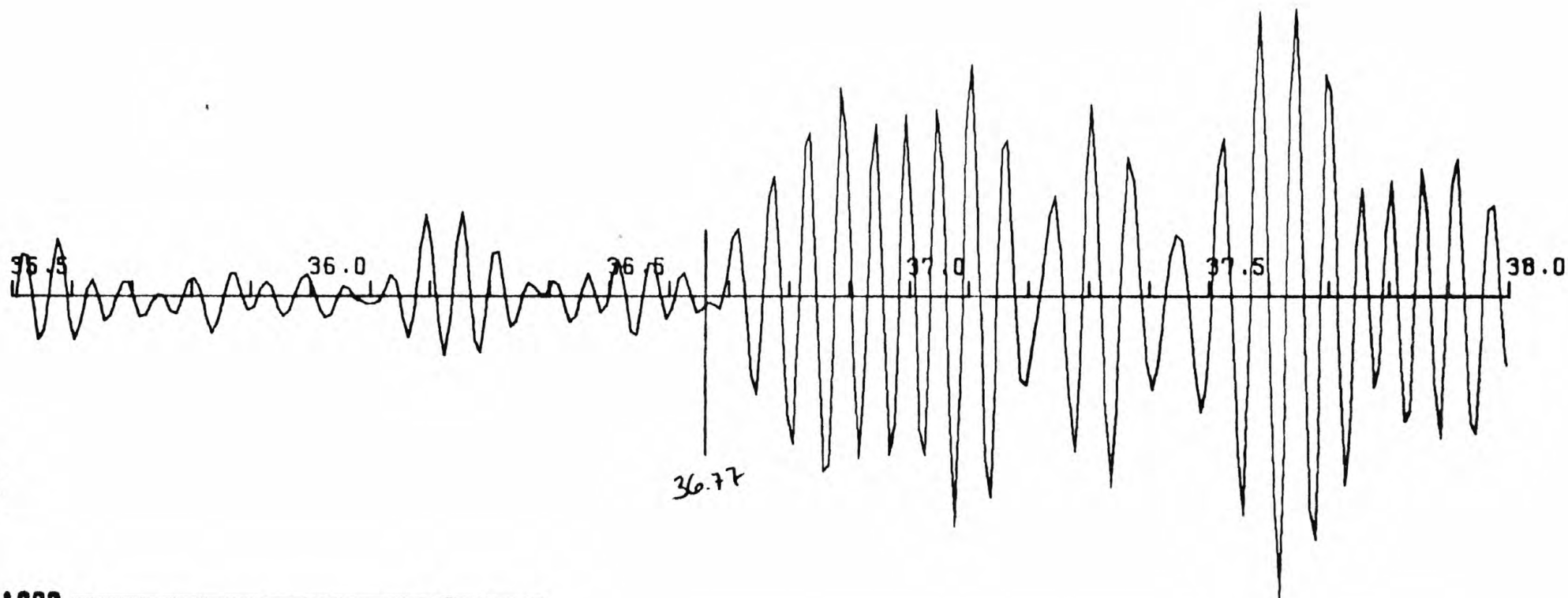
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 2

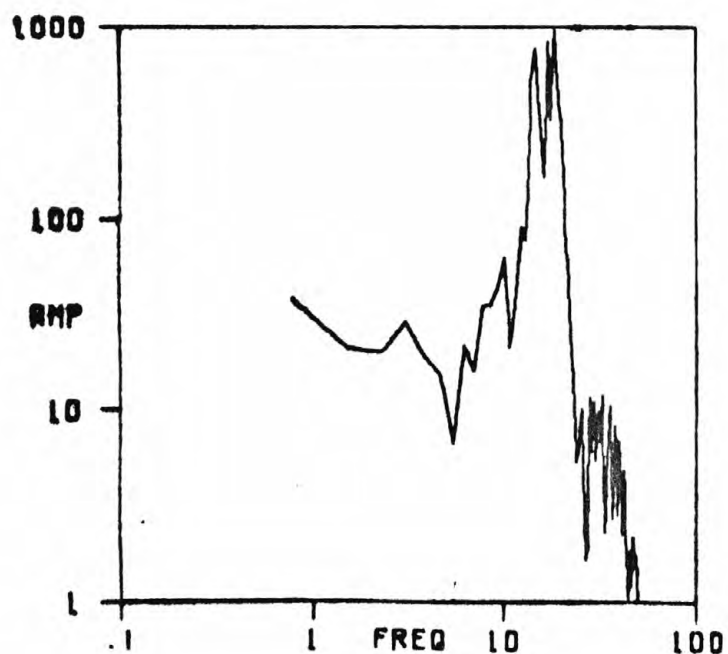
RECORDER LOCATION 435

DISTANCE FROM SHOT (KM) = -232.186

TSCALE (CM/SEC) = 10.0



349



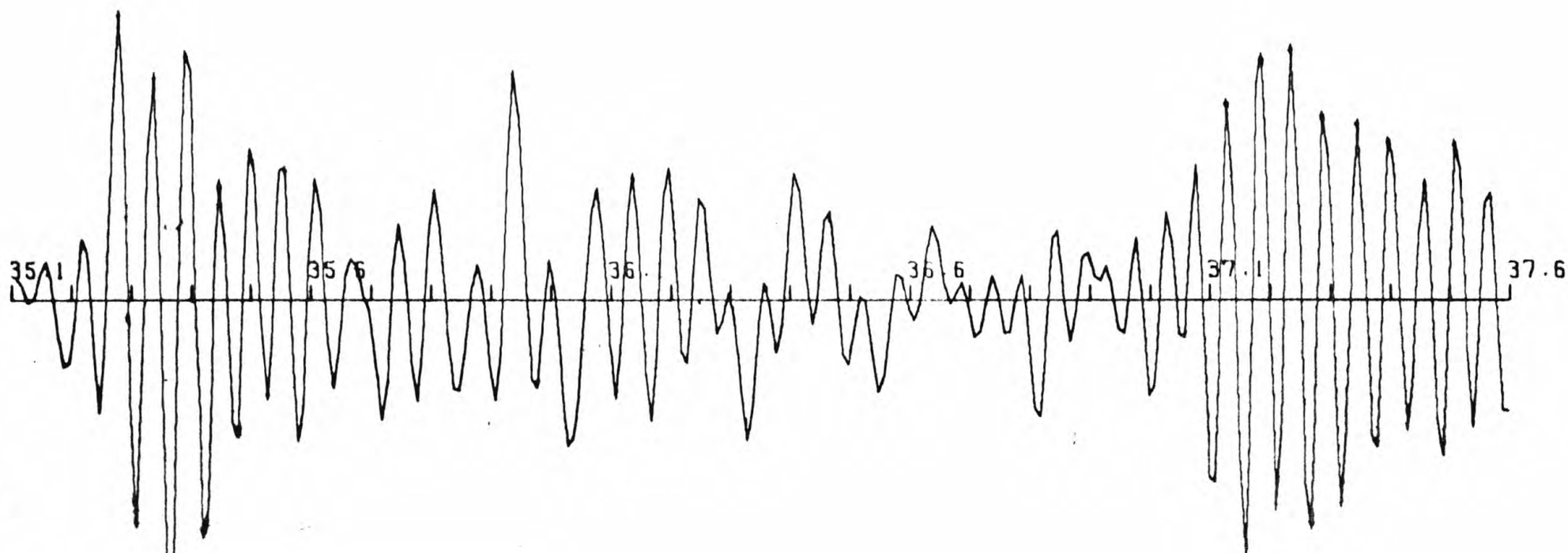
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 2

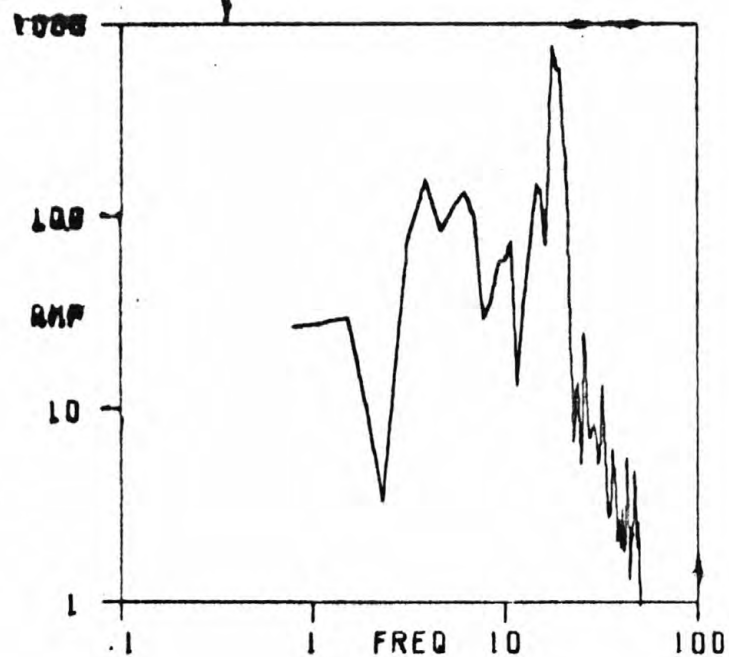
RECORDER LOCATION 497

DISTANCE FROM SHOT (KM) = -236.982

TSCALE (CM/SEC) = 10.0



350



SAUDI REFRACTION PROFILE 15.20 BP

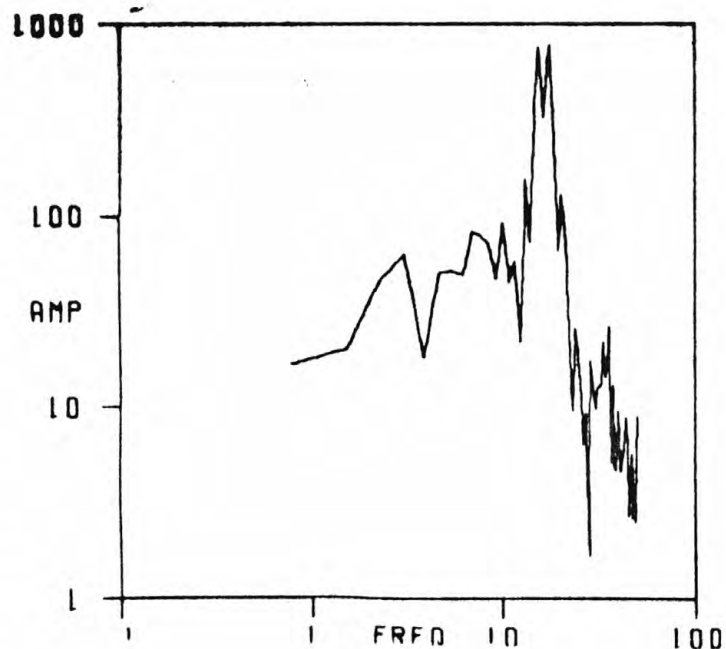
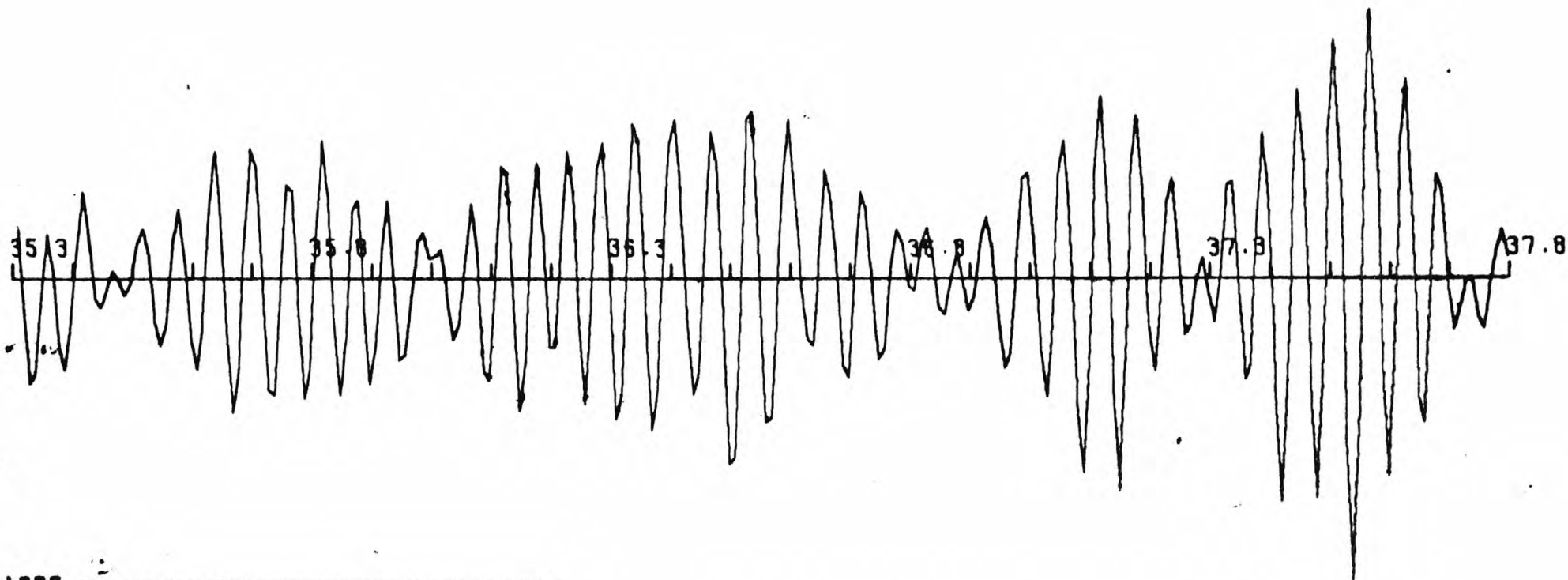
SHOT POINT 2

RECORDER LOCATION 438

DISTANCE FROM SHOT (KM) = -240.239

TSCALE (CM/SEC) = 10.0

351



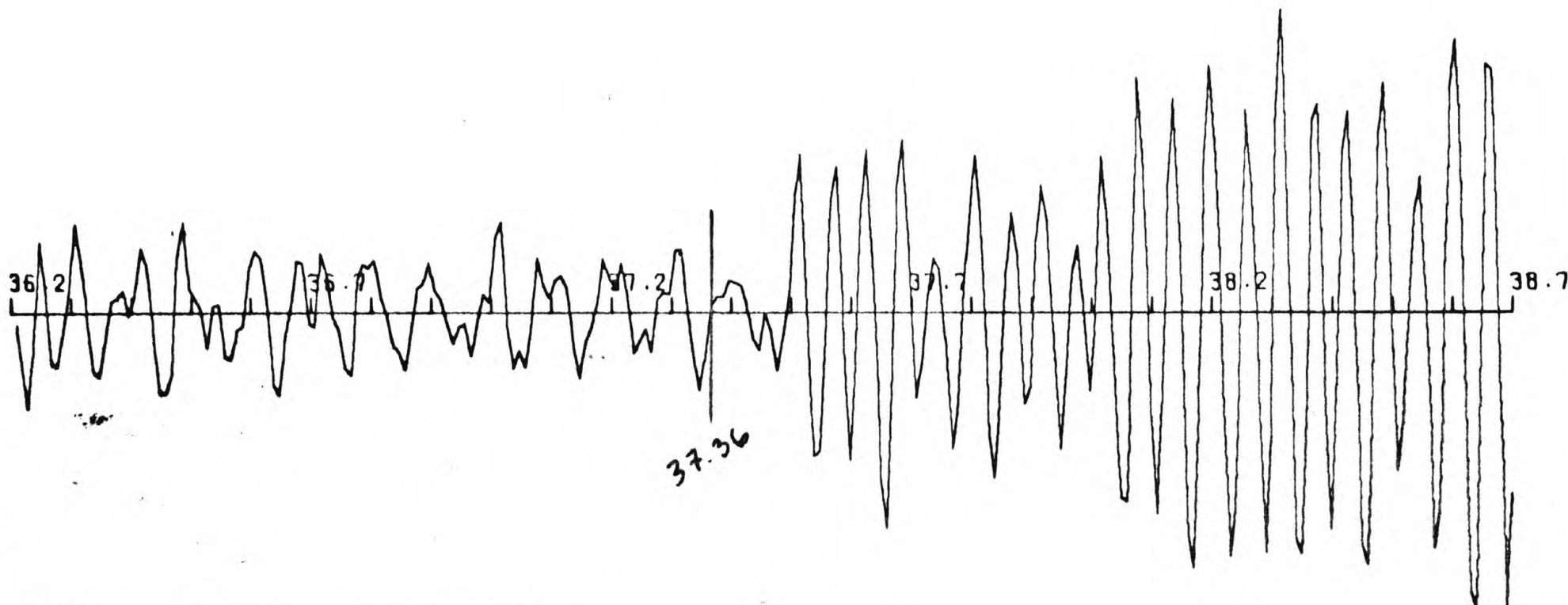
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 2

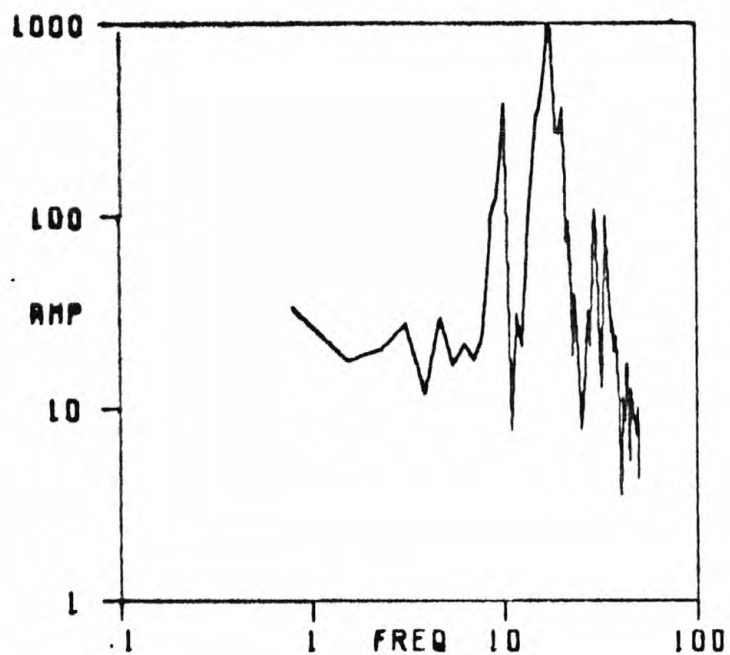
RECORDER LOCATION 439

DISTANCE FROM SHOT (KM) = -241.740

TSCALE (CM/SEC) = 10.0



352



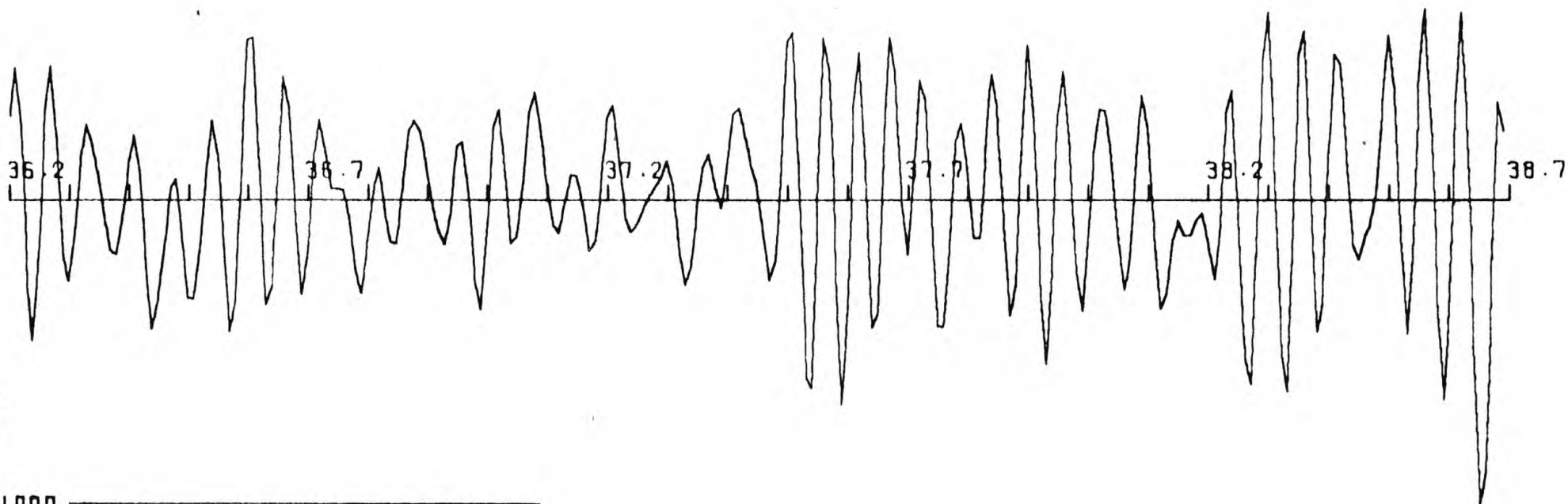
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 2

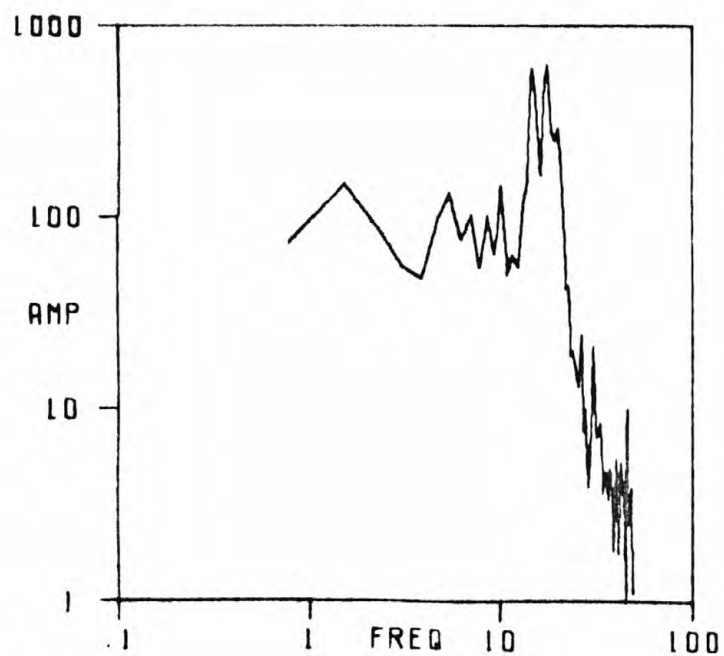
RECORDER LOCATION 441

DISTANCE FROM SHOT (KM) = -246.895

TSCALE (CM/SEC) = 10.0



353



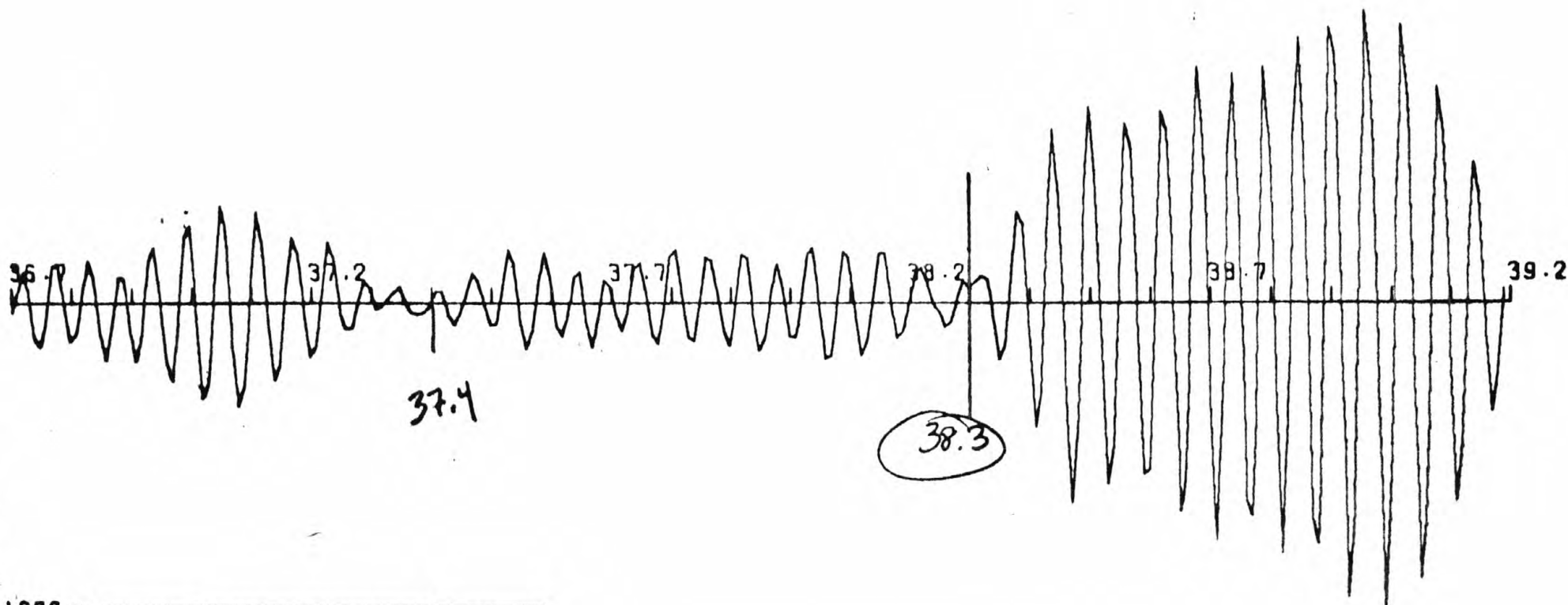
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 2

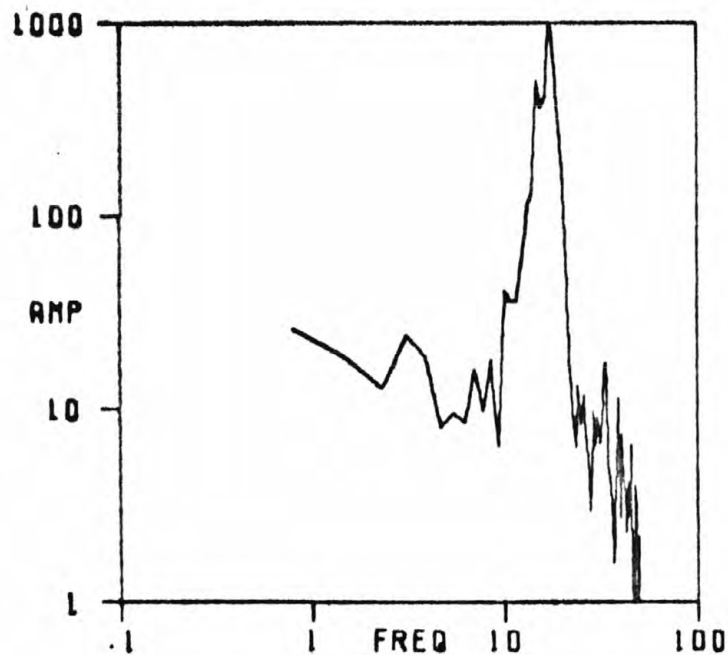
RECORDER LOCATION 442

DISTANCE FROM SHOT (KM) = -247.151

TSCALE (CM/SEC) = 10.0



354



SAUDI REFRACTION PROFILE 15.20 BP

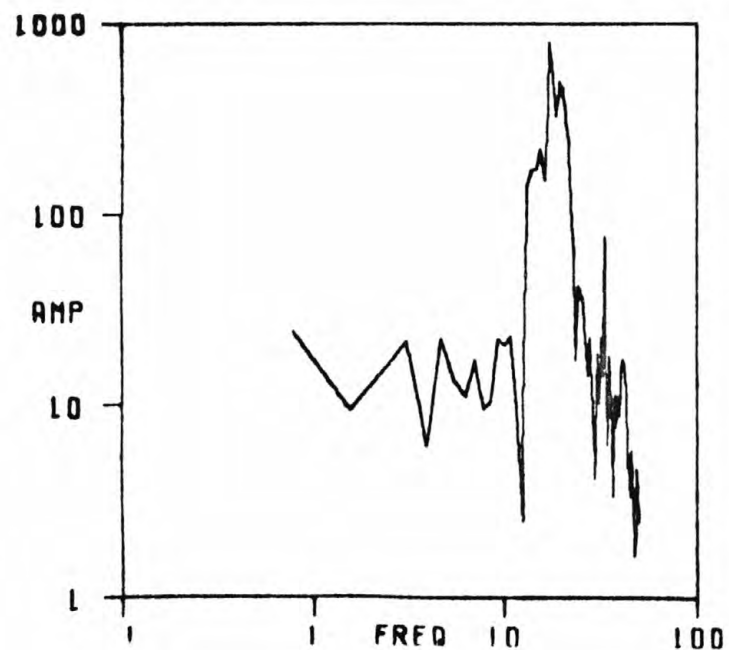
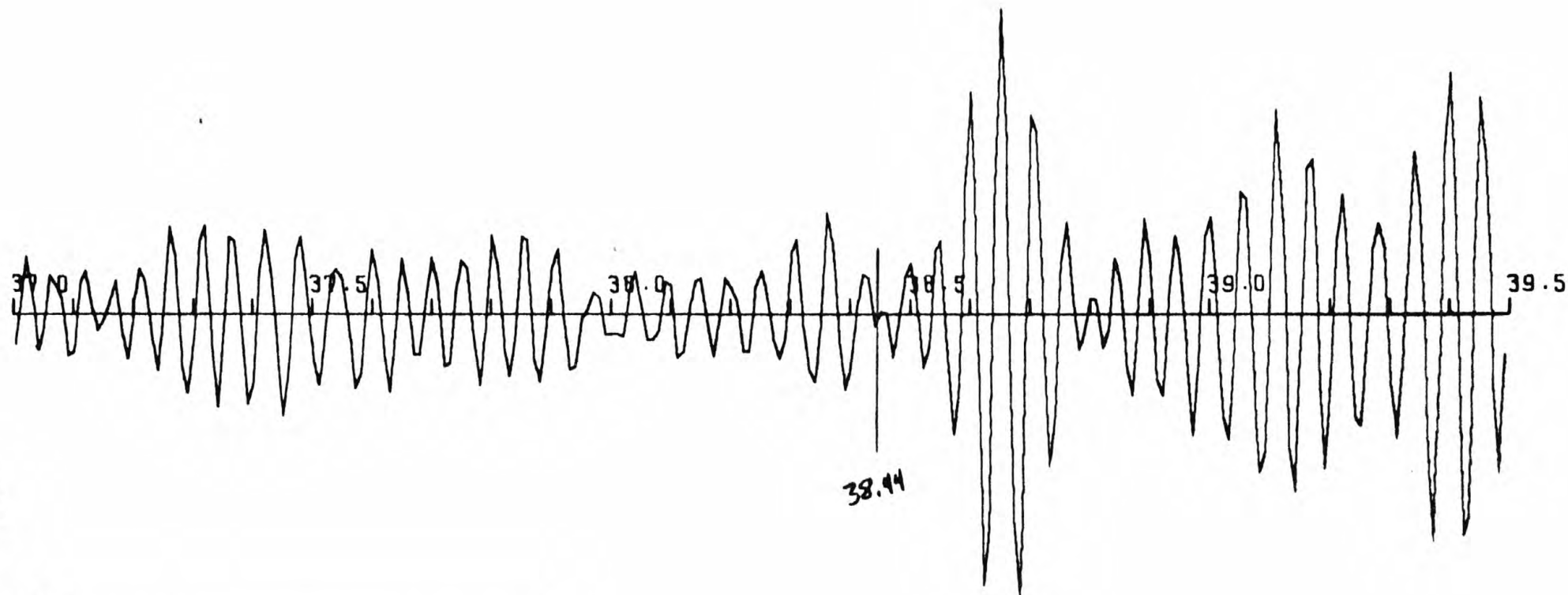
SHOT POINT 2

RECORDER LOCATION 443

DISTANCE FROM SHOT (KM) = -249.724

TSKALE (CM/SEC) = 10.0

355



SAUDI REFRACTION PROFILE 15.20 BP

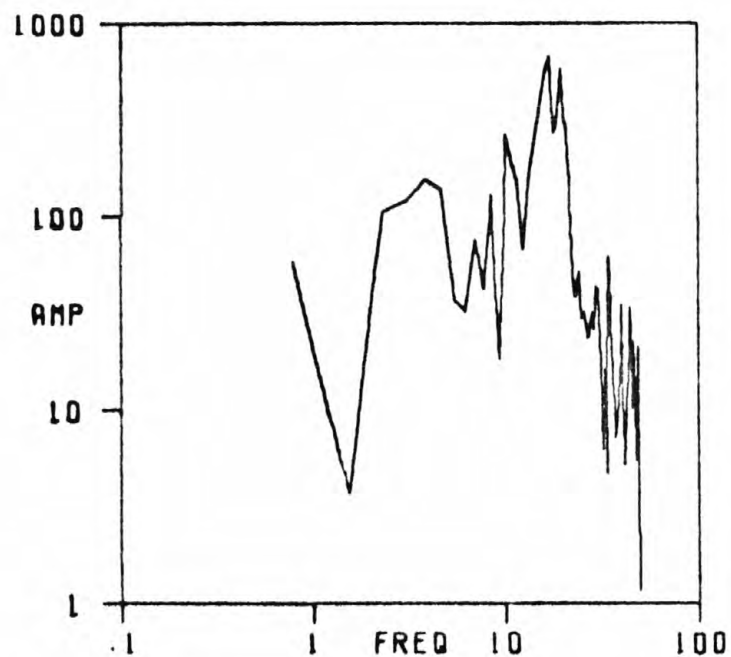
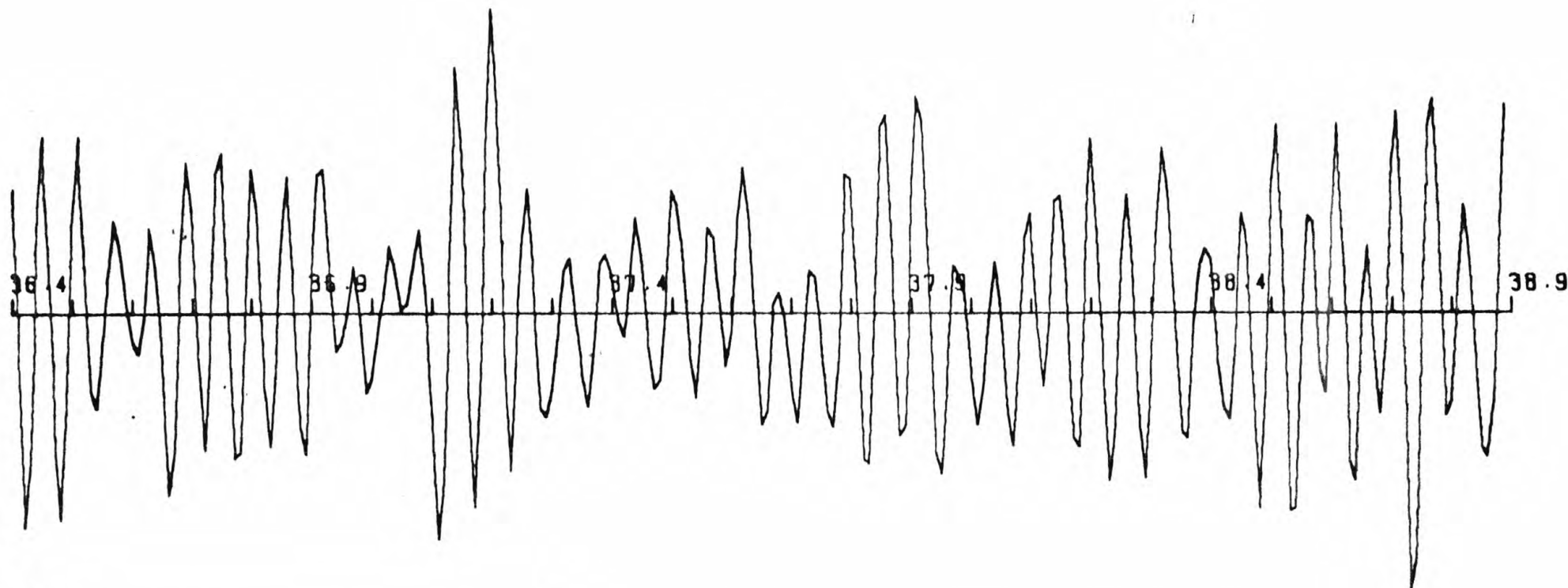
SHOT POINT 2

RECORDER LOCATION 444

DISTANCE FROM SHOT (KM) = -251.606

TSCALE (CM/SEC) = 10.0

356



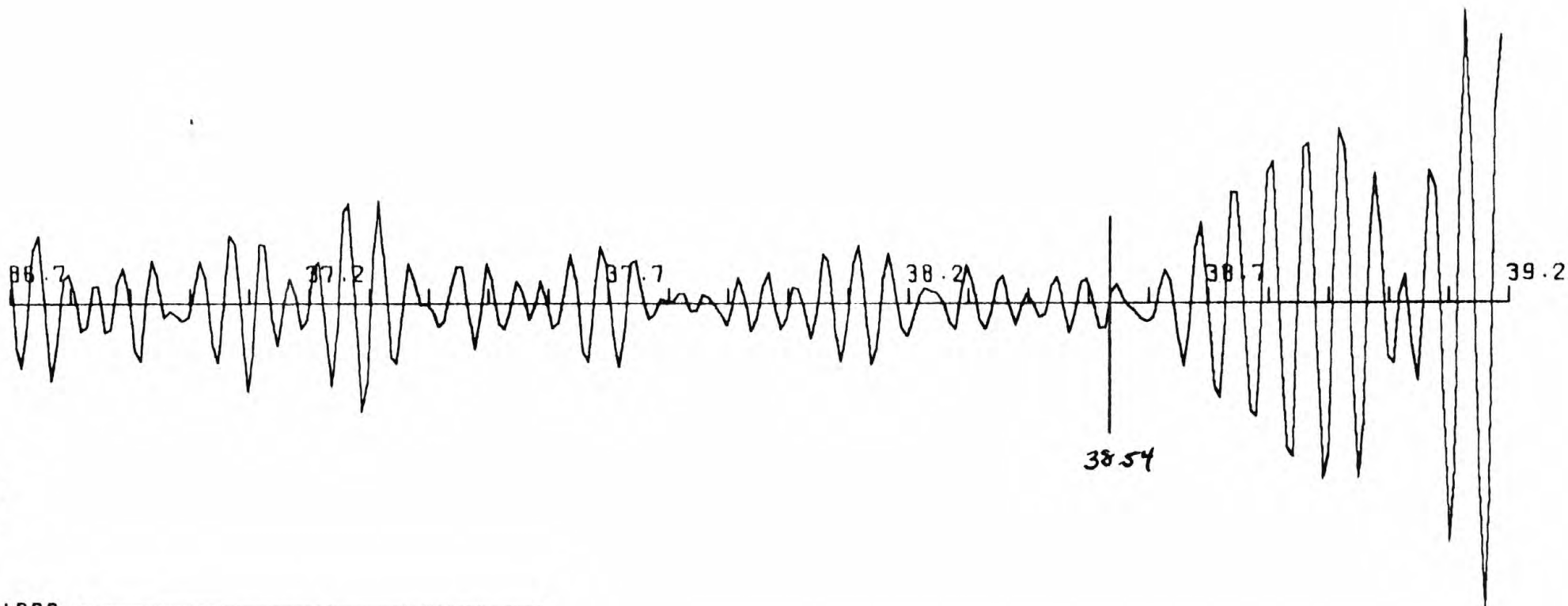
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 2

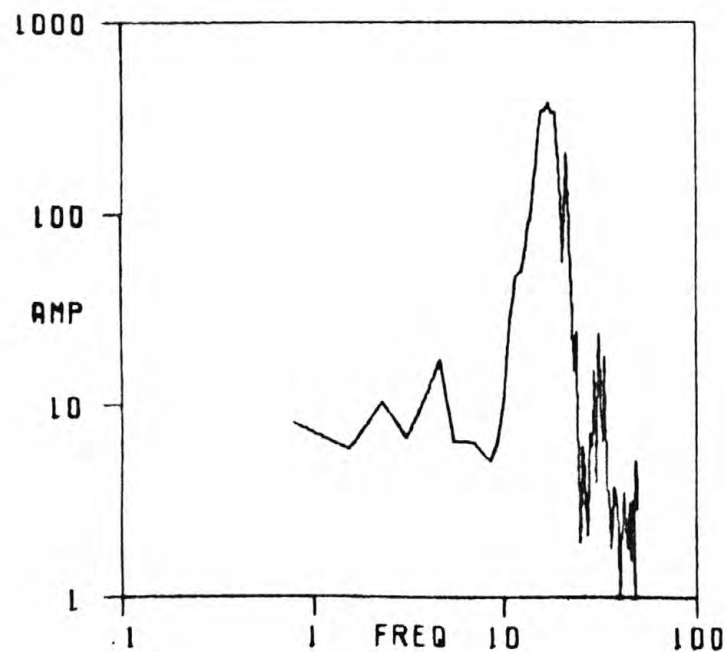
RECORDER LOCATION 445

DISTANCE FROM SHOT (KM) = -253.934

TSCALE (CM/SEC) = 10.0



357



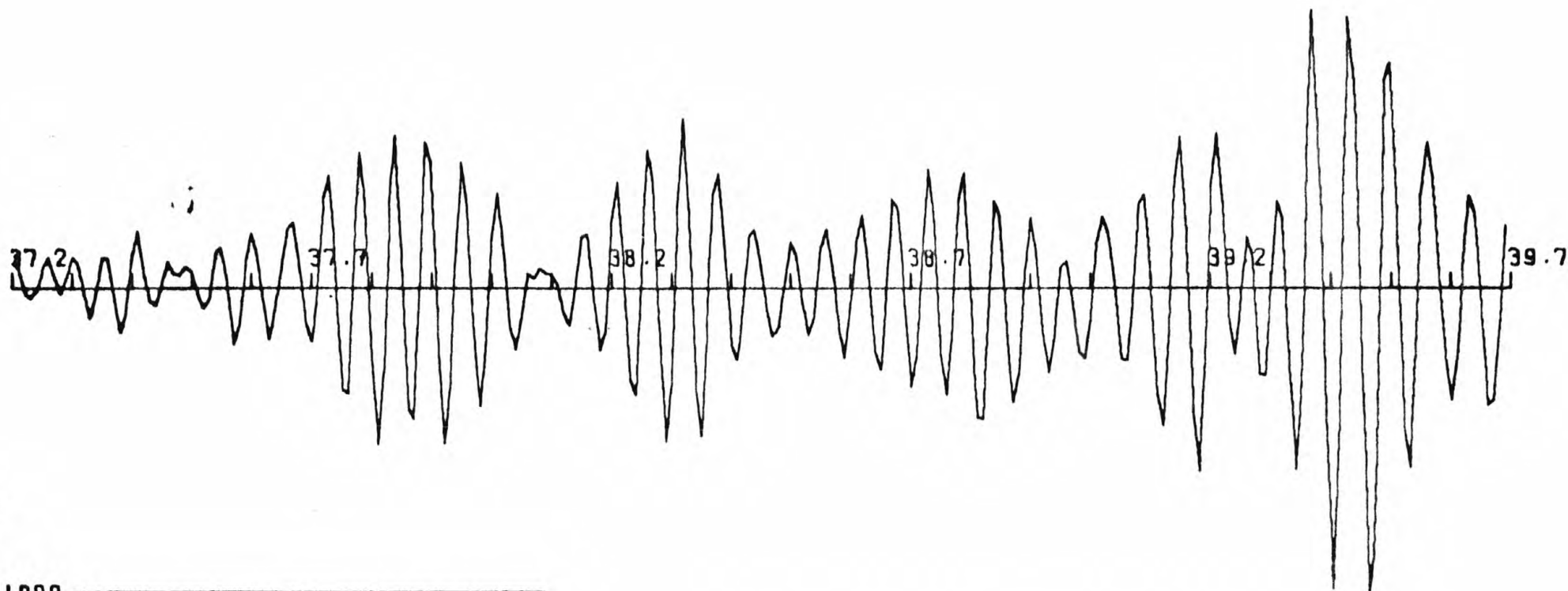
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 2

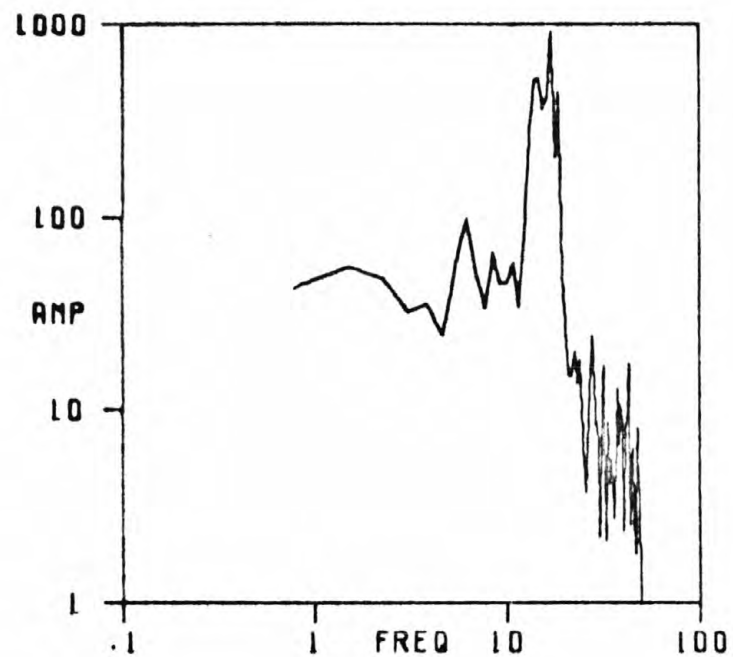
RECORDER LOCATION 446

DISTANCE FROM SHOT (KM) = -256.141

TSCALE (CM/SEC) = 10.0



358



SAUDI REFRACTION PROFILE 15.20 BP

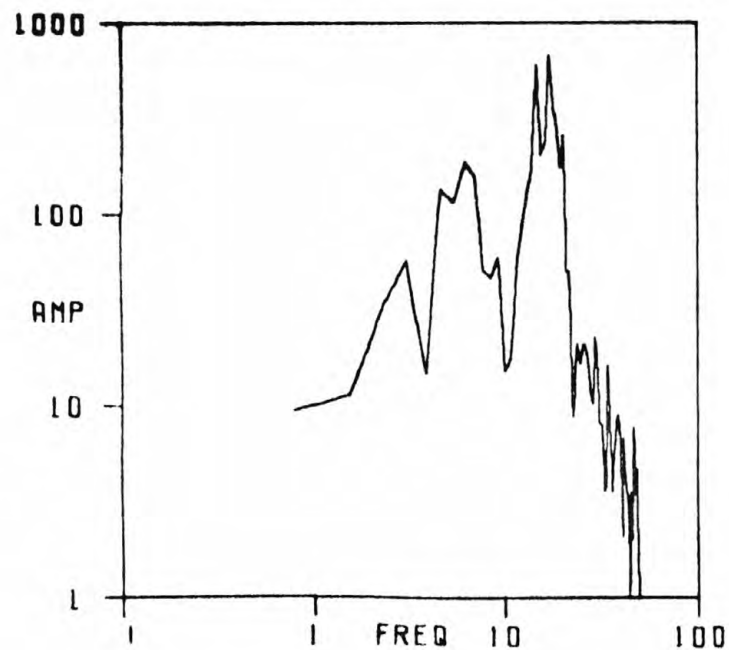
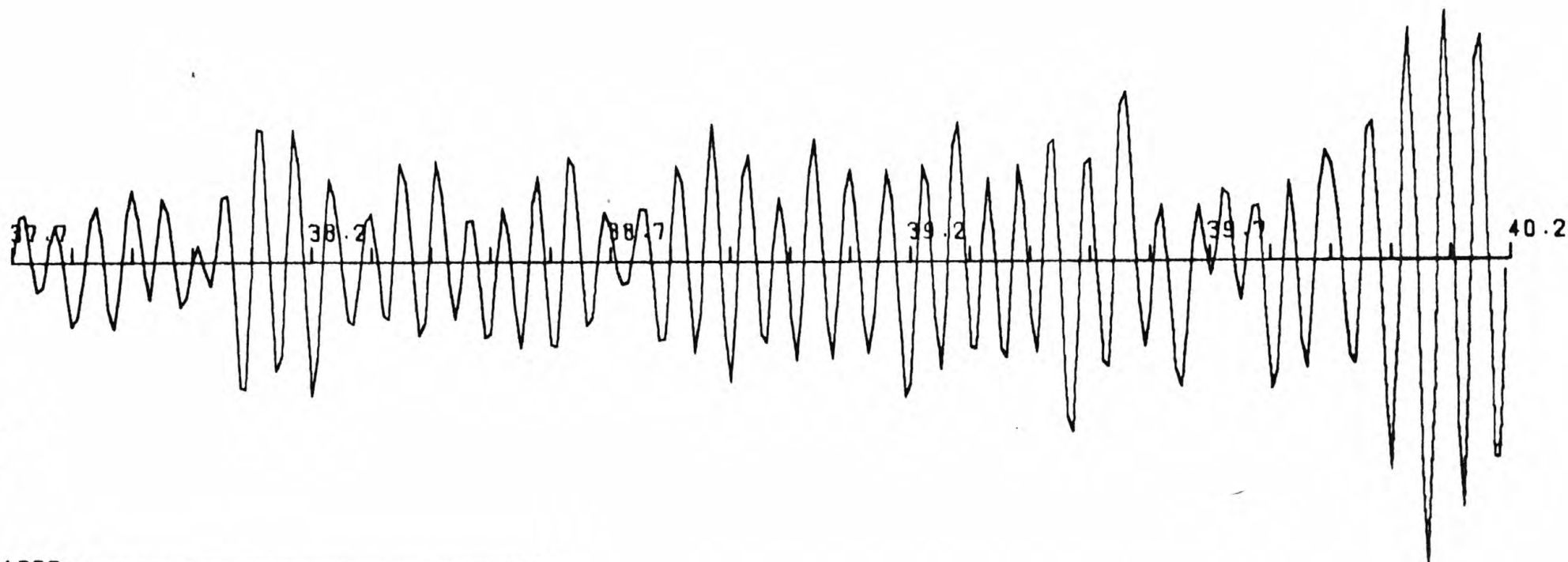
SHOT POINT 2

RECORDER LOCATION 447

DISTANCE FROM SHOT (KM) = -258.738

TSCALE (CM/SEC) = 10.0

359



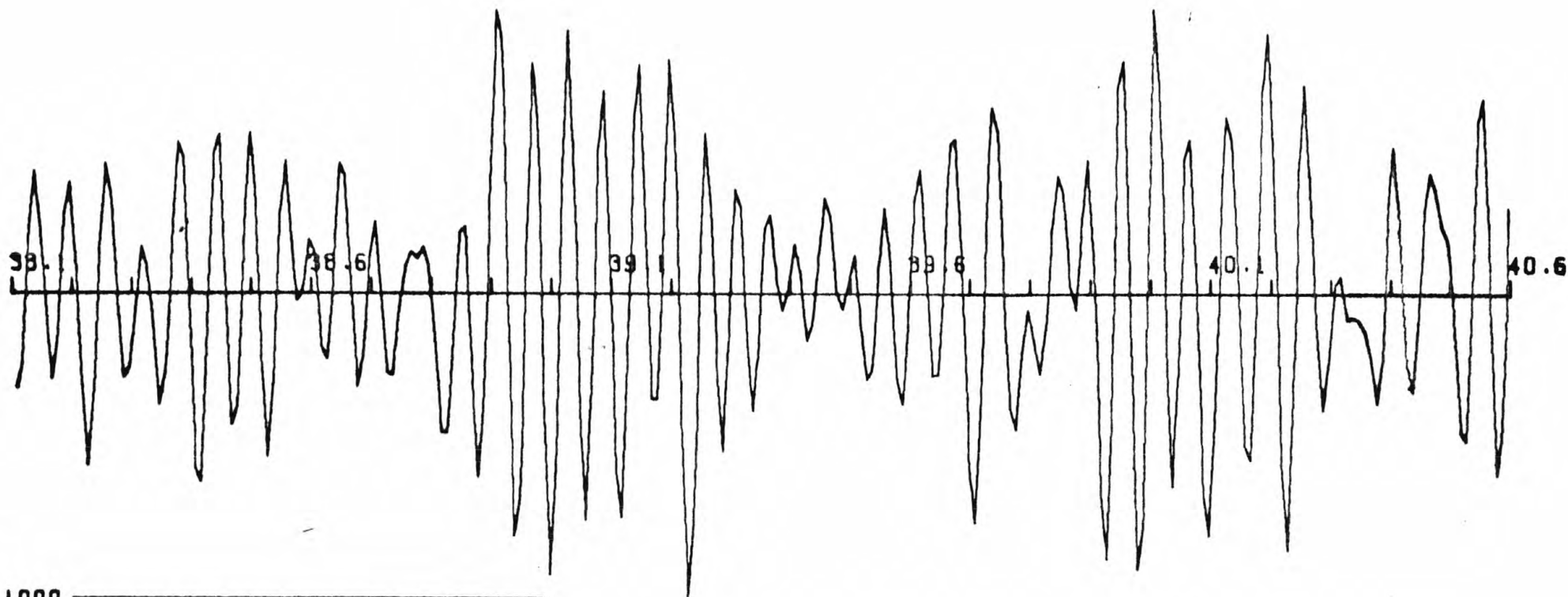
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 2

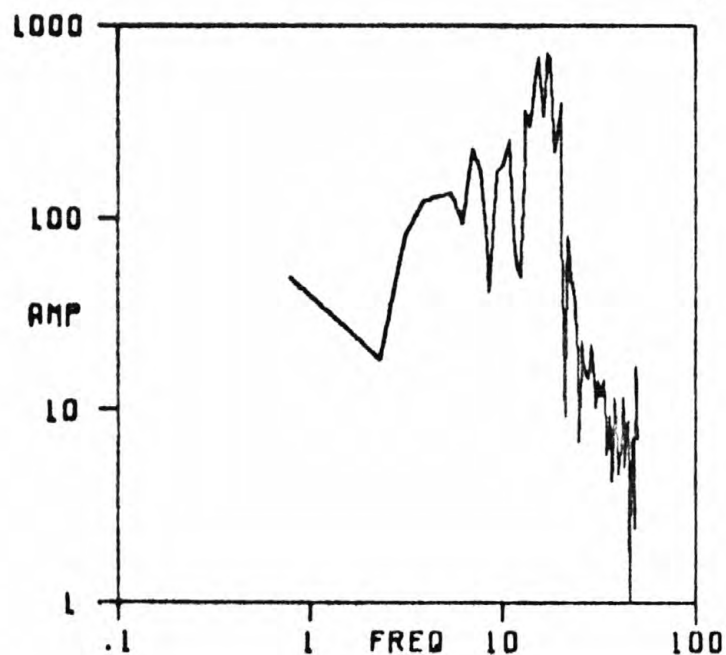
RECORDER LOCATION 448

DISTANCE FROM SHOT (KM) = -261.741

TSCALE (CM/SEC) = 10.0



360



SAUDI REFRACTION PROFILE 15.20 BP

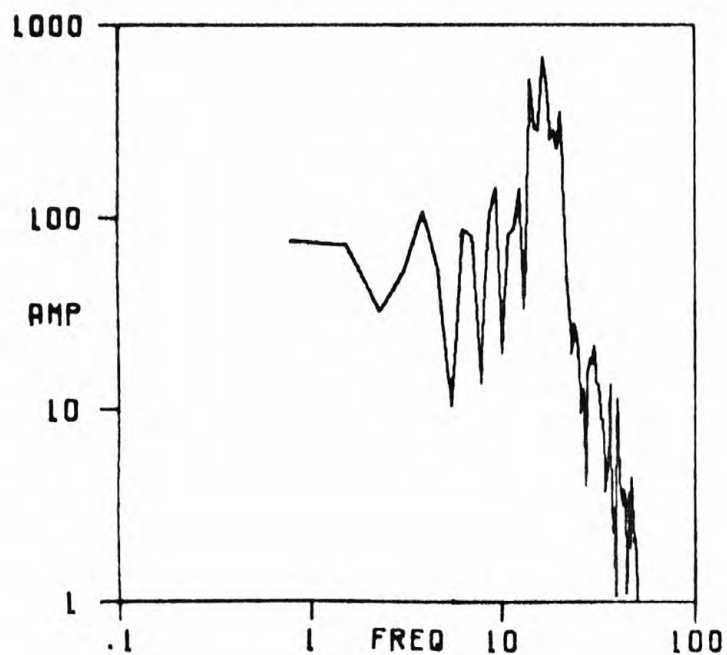
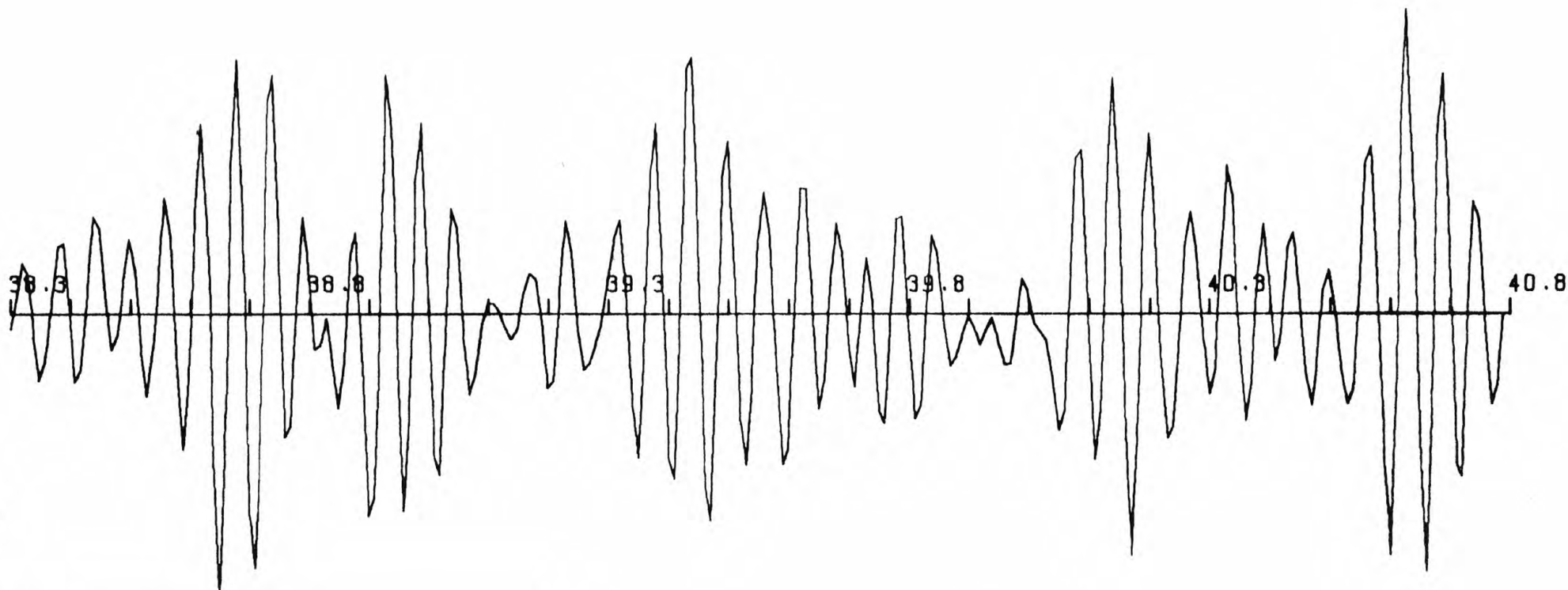
SHOT POINT 2

RECORDER LOCATION 449

DISTANCE FROM SHOT (KM) = -264.111

TSCALE (CM/SEC) = 10.0

361



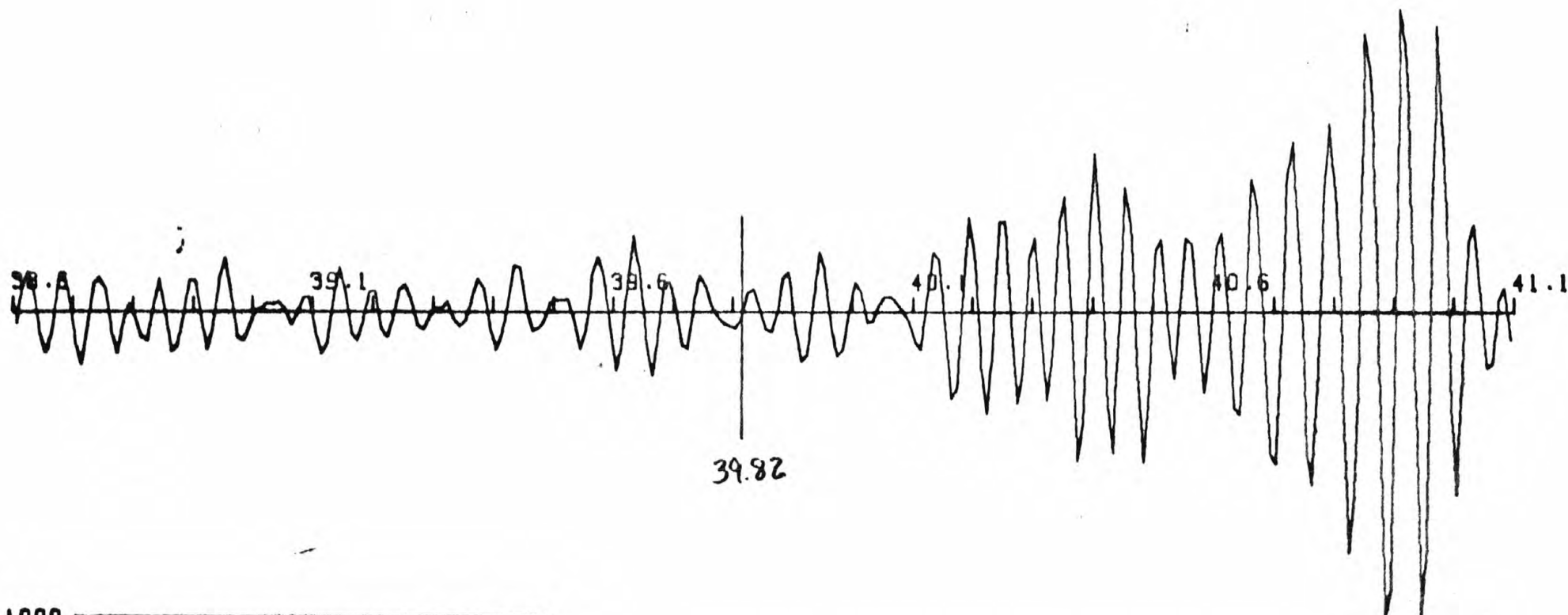
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 2

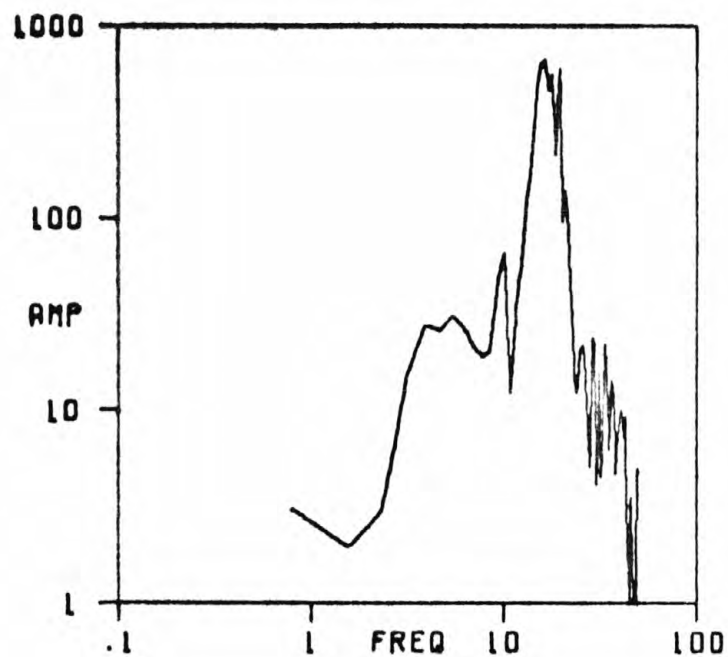
RECORDER LOCATION 450

DISTANCE FROM SHOT (KM) = -265.682

TSCALE (CM/SEC) = 10.0



362



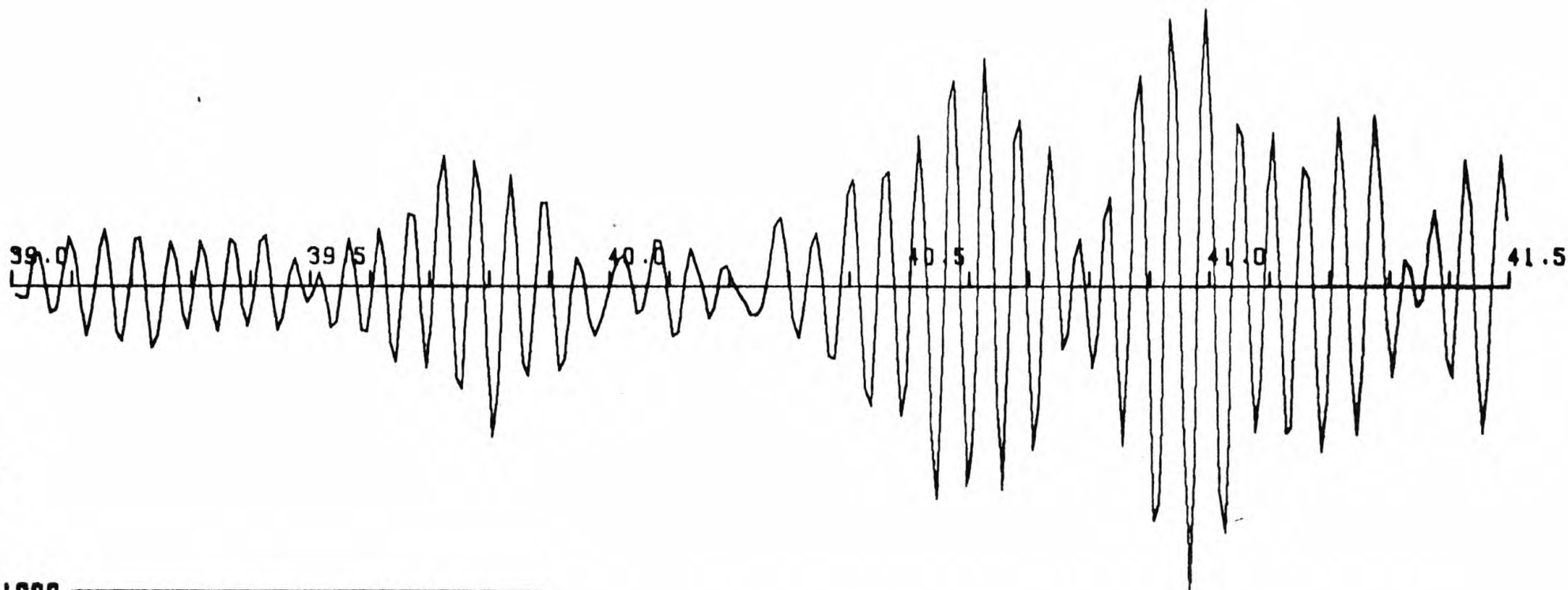
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 2

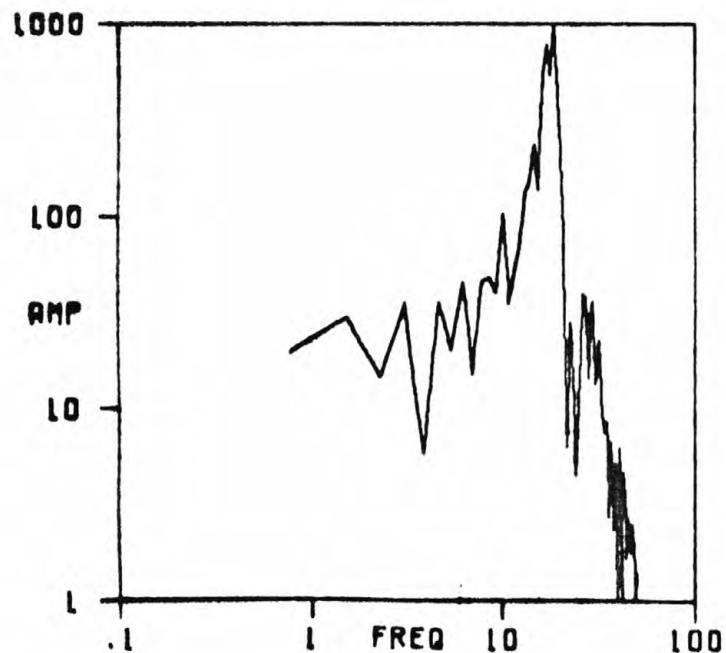
RECORDER LOCATION 451

DISTANCE FROM SHOT (KM) = -267.398

TSCALE (CM/SEC) = 10.0



363



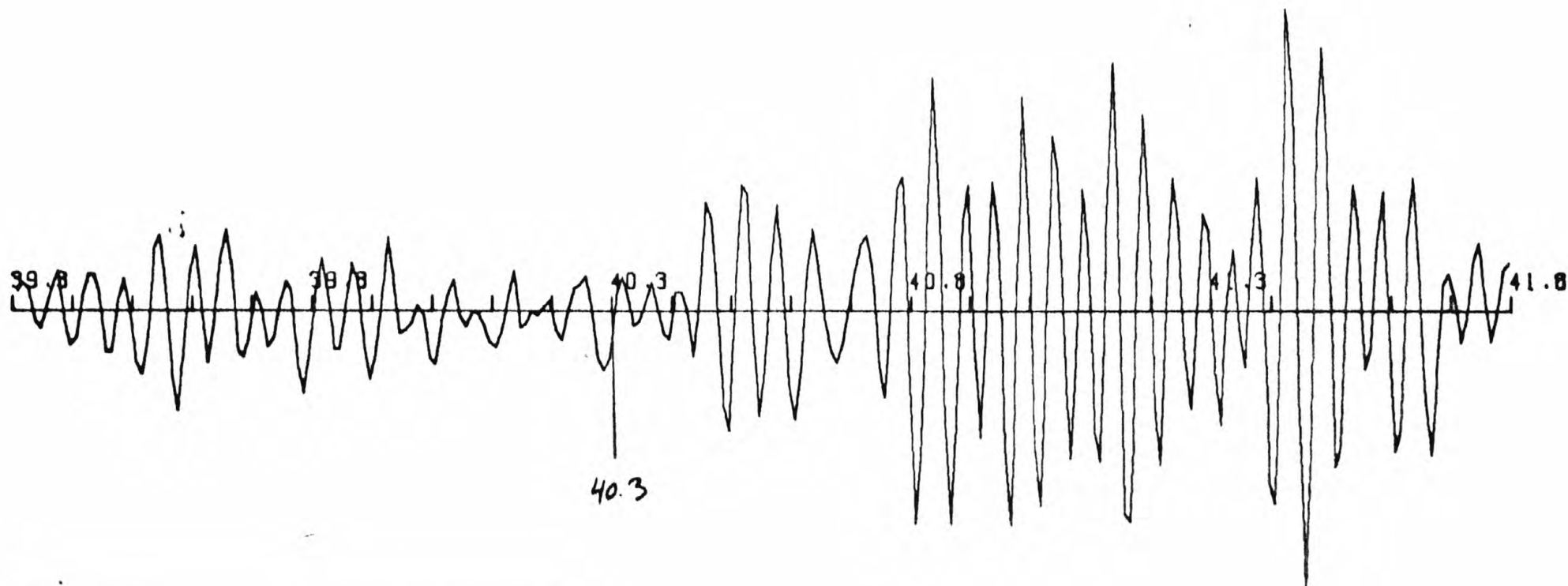
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 2

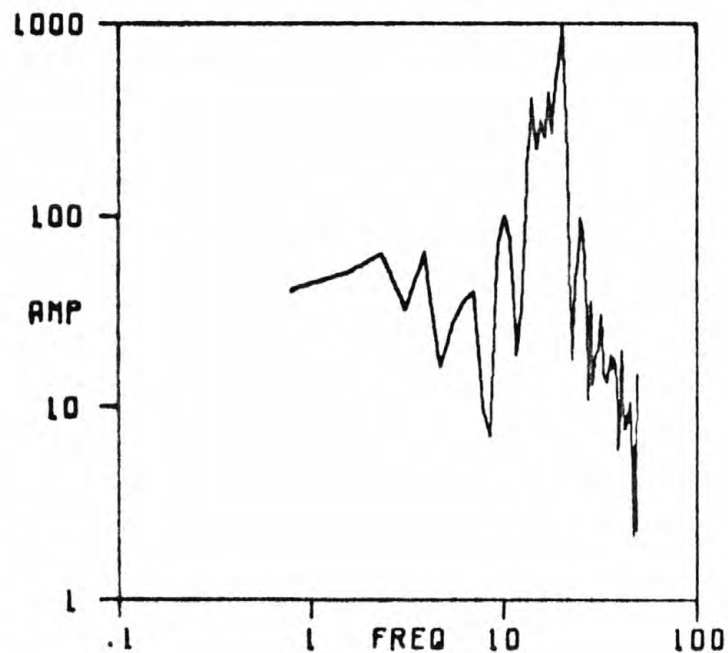
RECORDER LOCATION 452

DISTANCE FROM SHOT (KM) = -269.443

TSCALE (CM/SEC) = 10.0



364



SAUDI REFRACTION PROFILE 15.20 BP

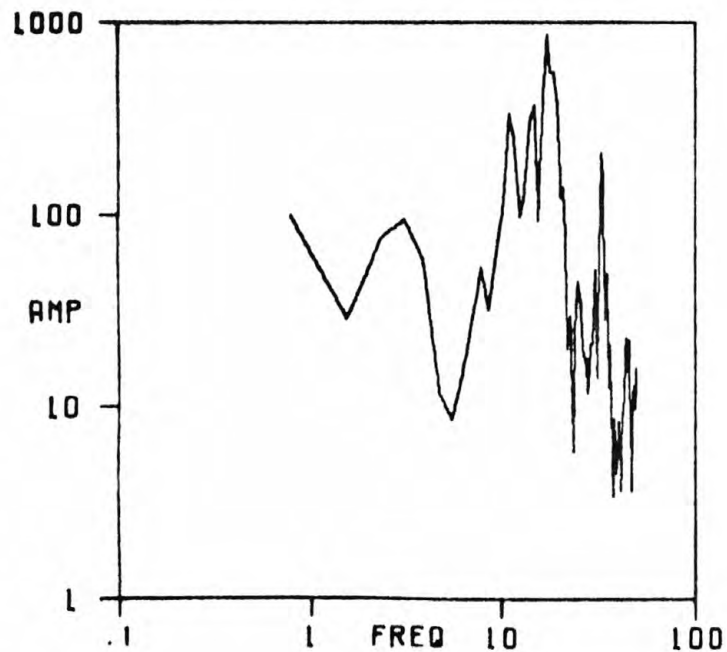
SHOT POINT 2

RECORDER LOCATION 453

DISTANCE FROM SHOT (KM) = -271.671

TSCALE (CM/SEC) = 10.0

365



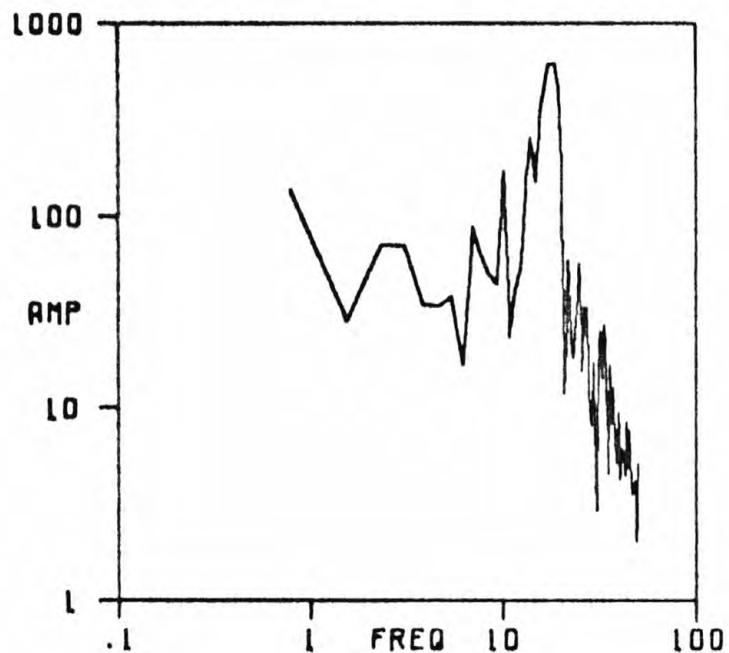
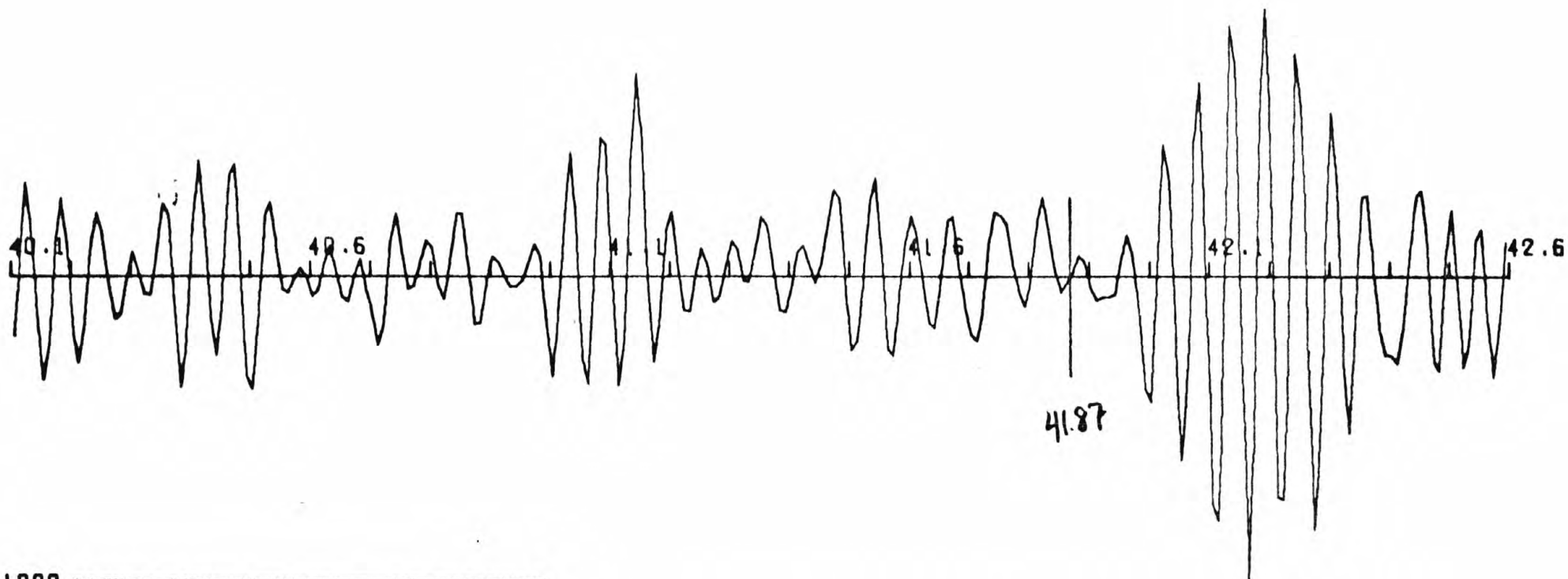
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 2

RECORDER LOCATION 454

DISTANCE FROM SHOT (KM) = -273.085

TSCALE (CM/SEC) = 10.0



SAUDI REFRACTION PROFILE 15.20 BP

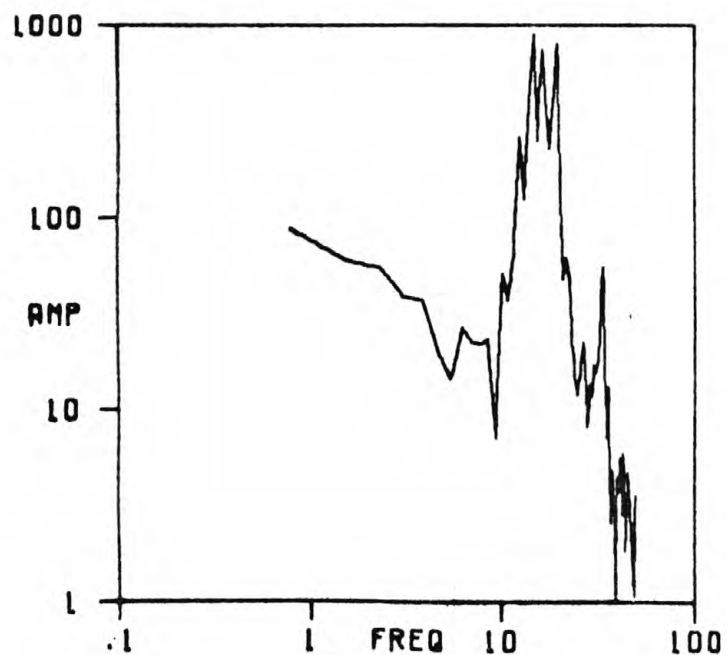
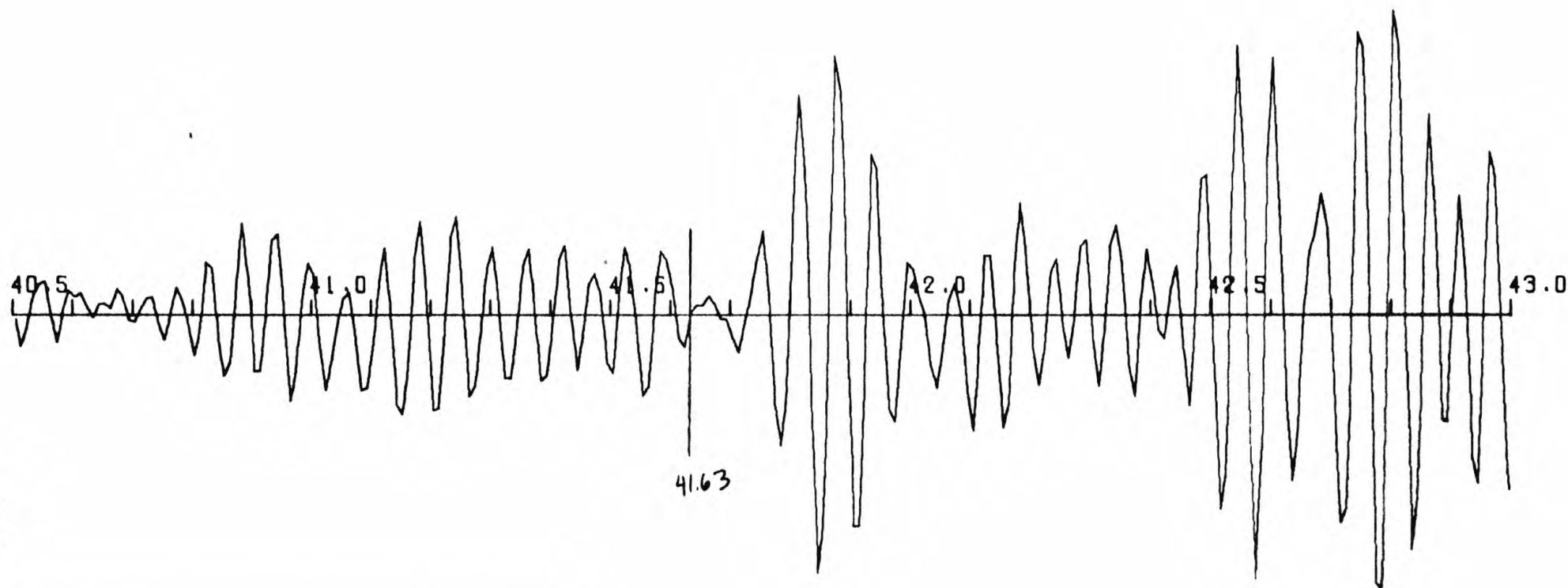
SHOT POINT 2

RECORDER LOCATION 455

DISTANCE FROM SHOT (KM) = -276.513

TSCALE (CM/SEC) = 10.0

367



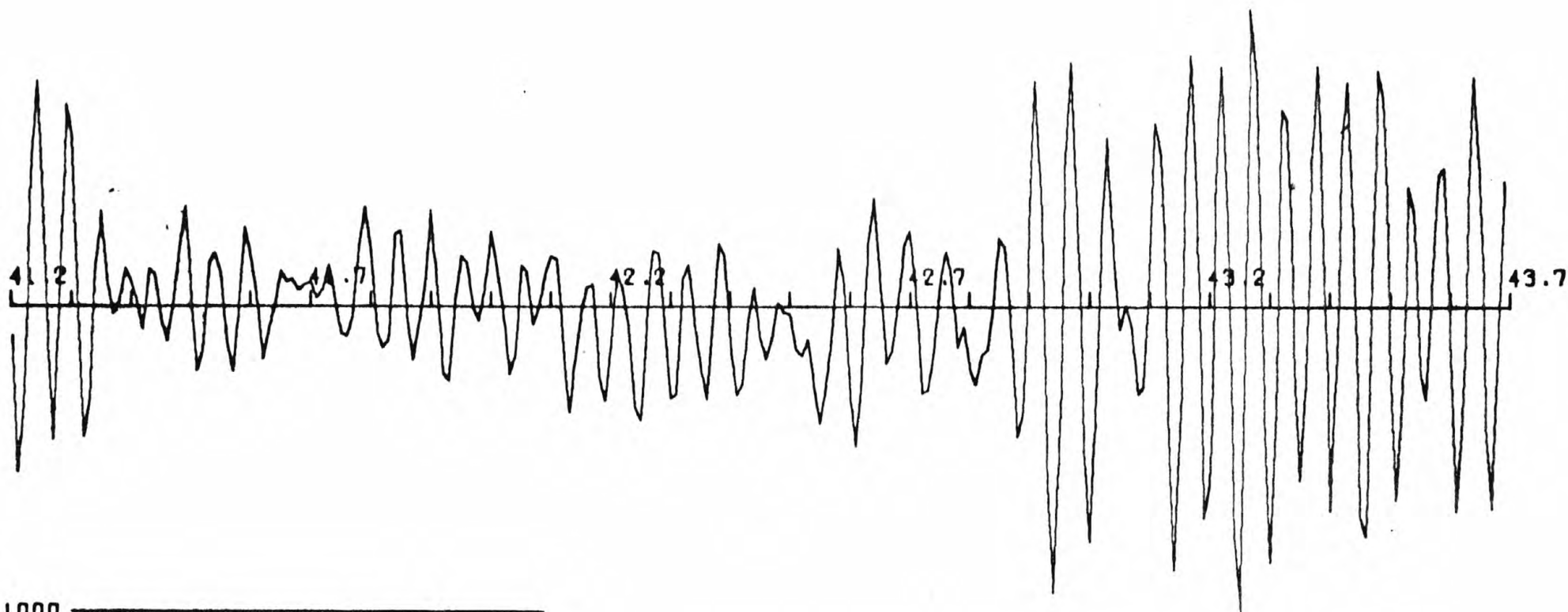
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 2

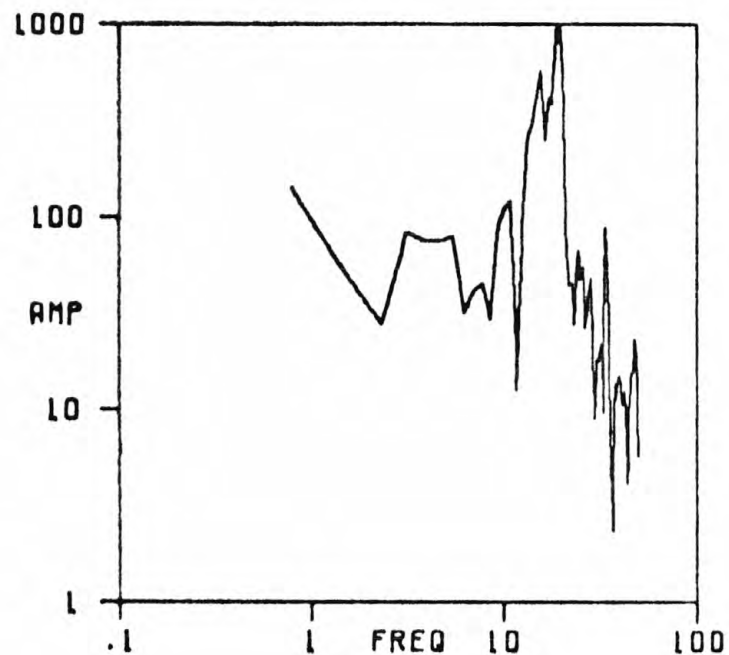
RECORDER LOCATION 456

DISTANCE FROM SHOT (KM) = -278.617

TSCALE (CM/SEC) = 10.0



868



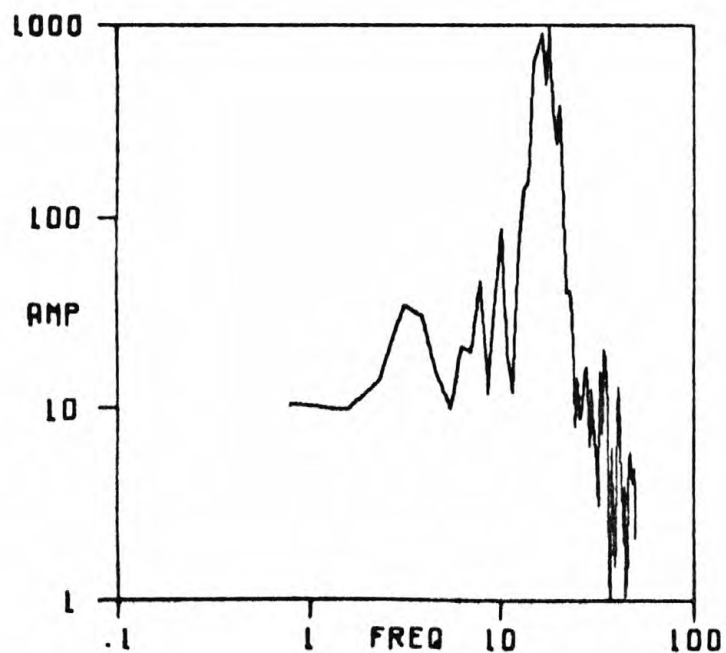
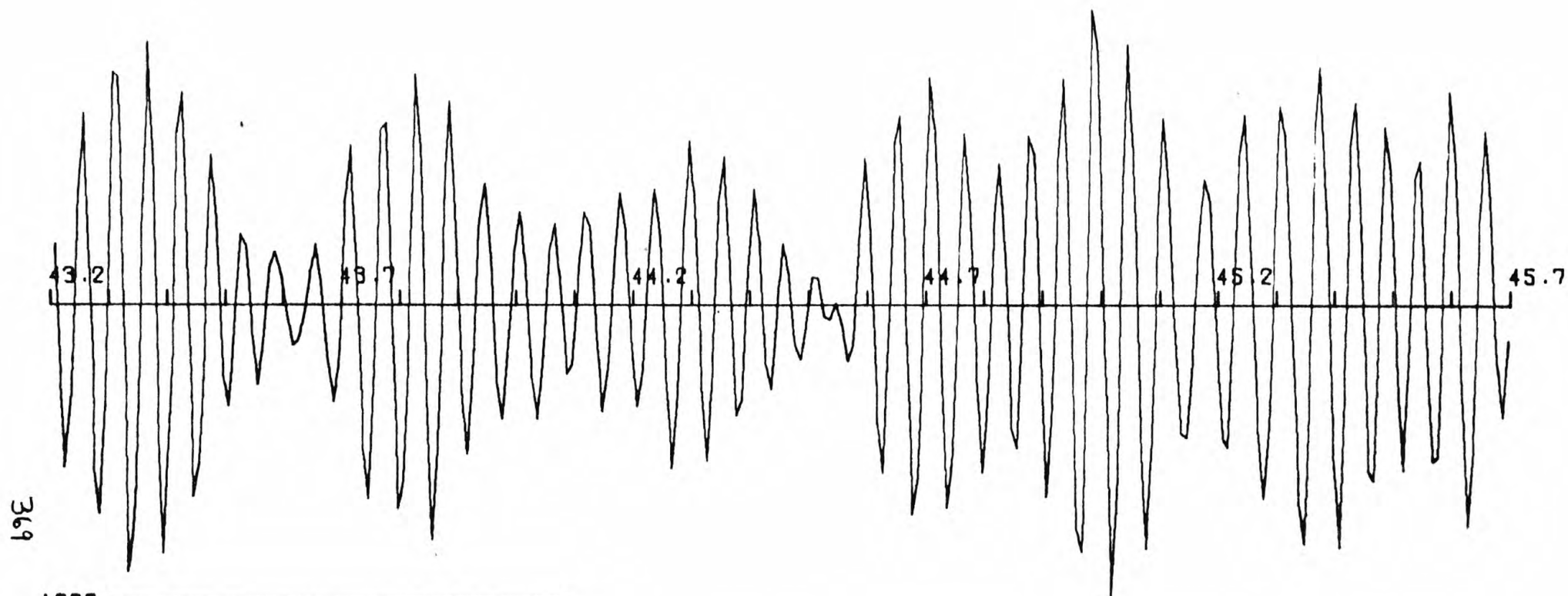
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 2

RECORDER LOCATION 459

DISTANCE FROM SHOT (KM) = -288.793

TSCALE (CM/SEC) = 10.0



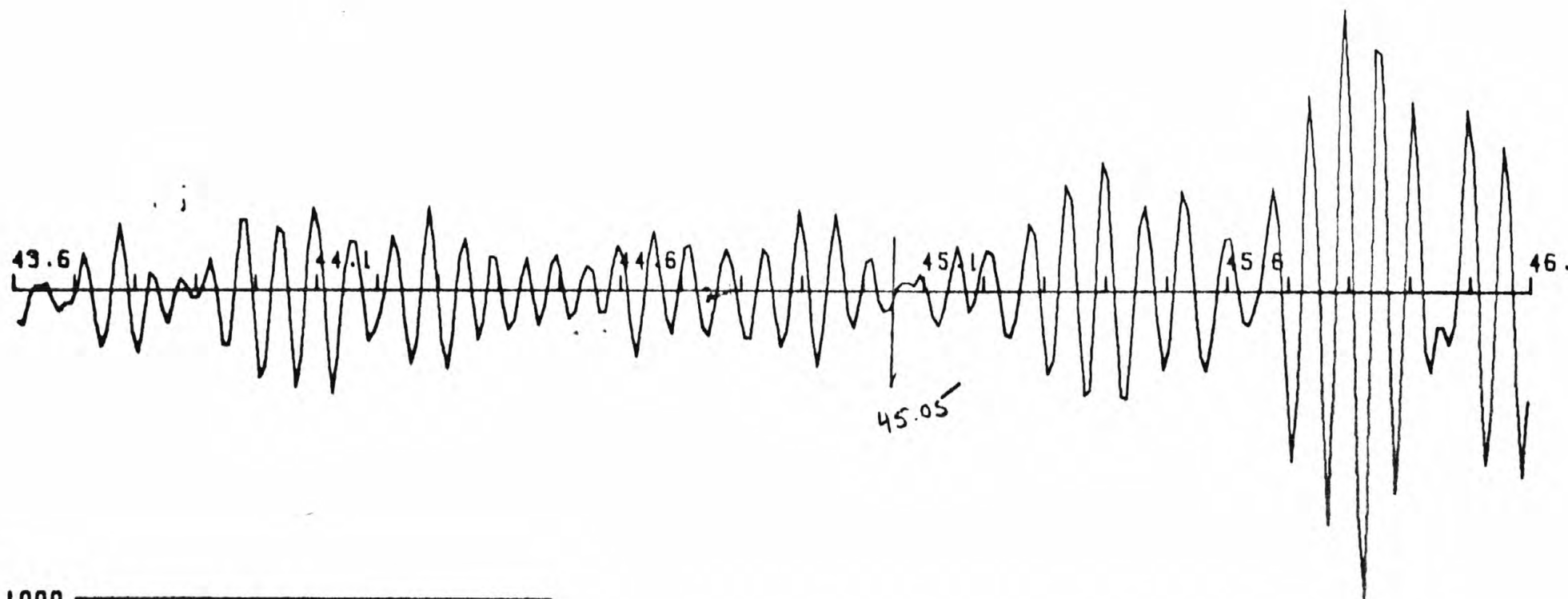
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 2

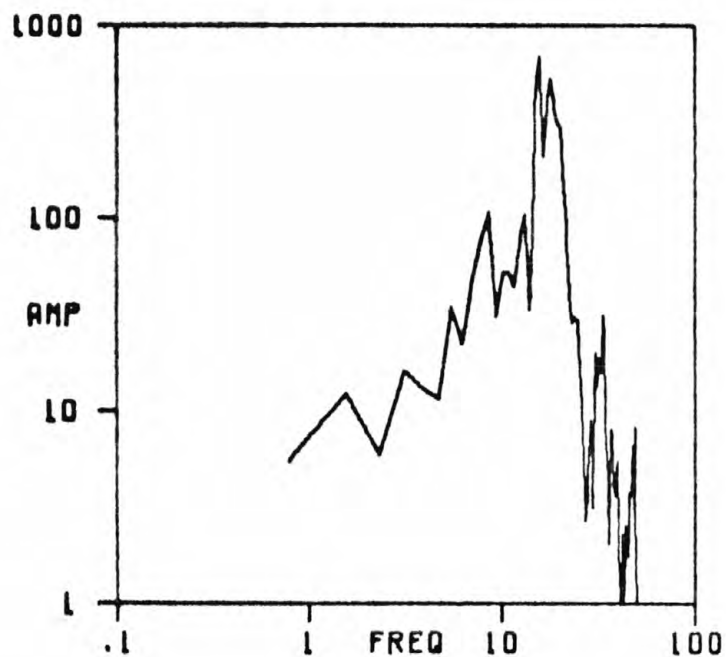
RECORDER LOCATION 469

DISTANCE FROM SHOT (KM) = -306.947

TSCALE (CM/SEC) = 10.0



370



SAUDI REFRACTION PROFILE 15.20 BP

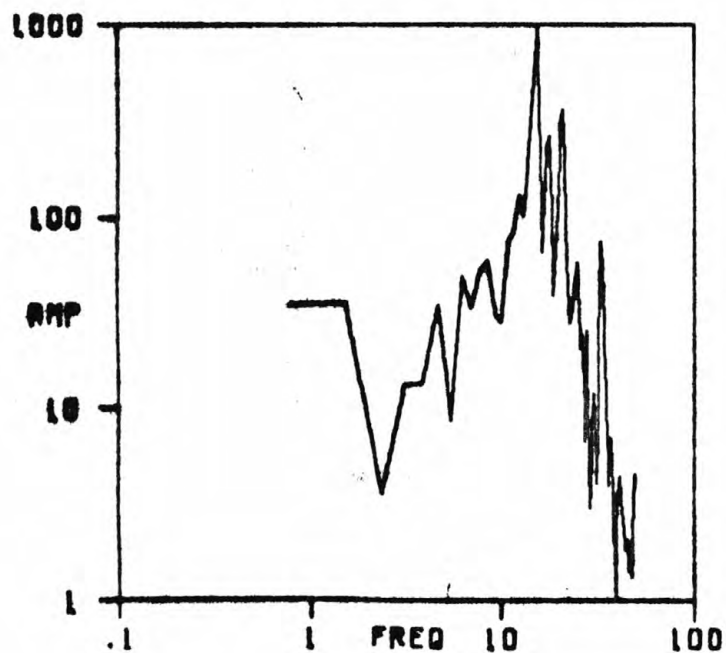
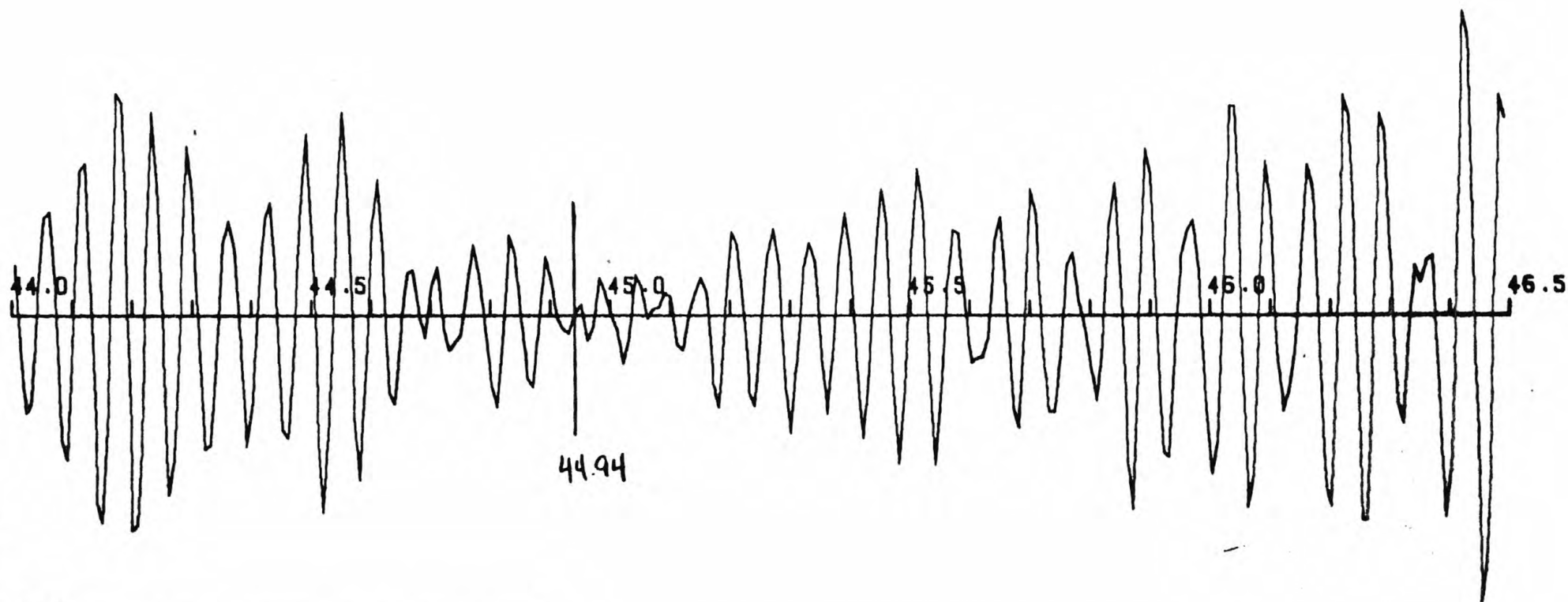
SHOT POINT 2

RECORDER LOCATION 470

DISTANCE FROM SHOT (KM) = -309.342

TSCALE (CM/SEC) = 10.0

371



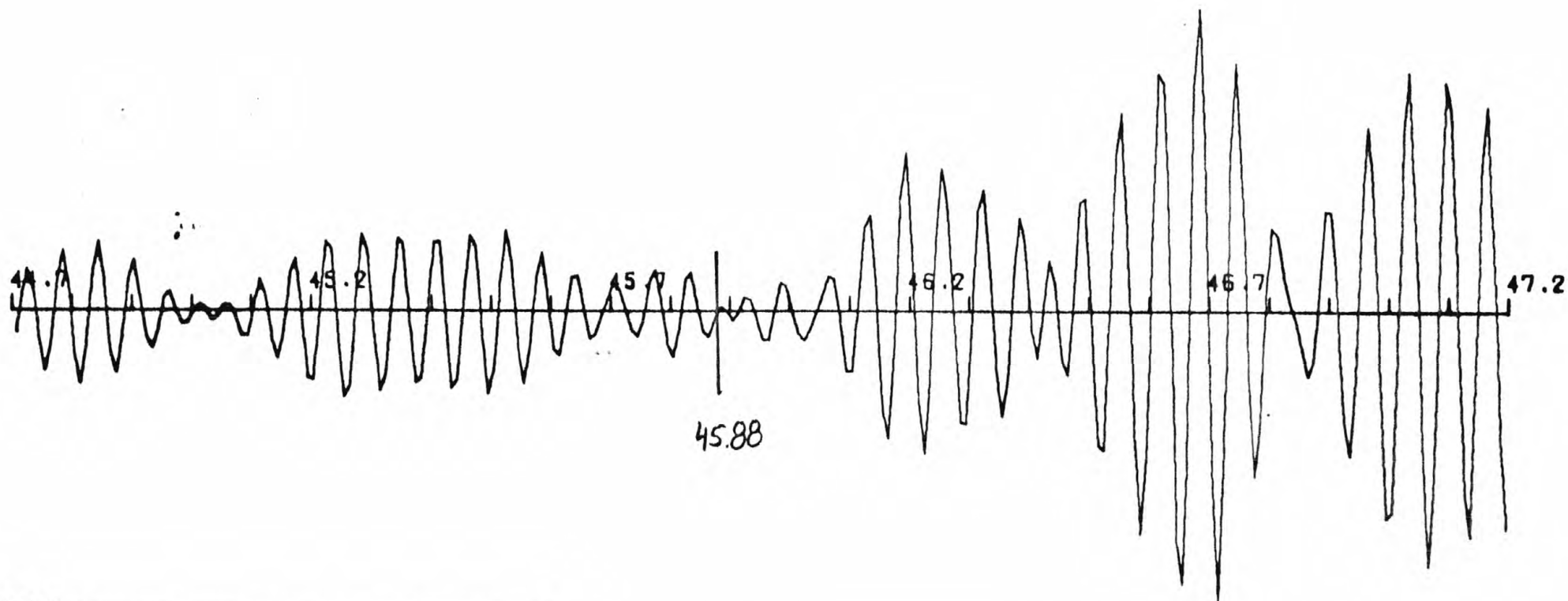
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 2

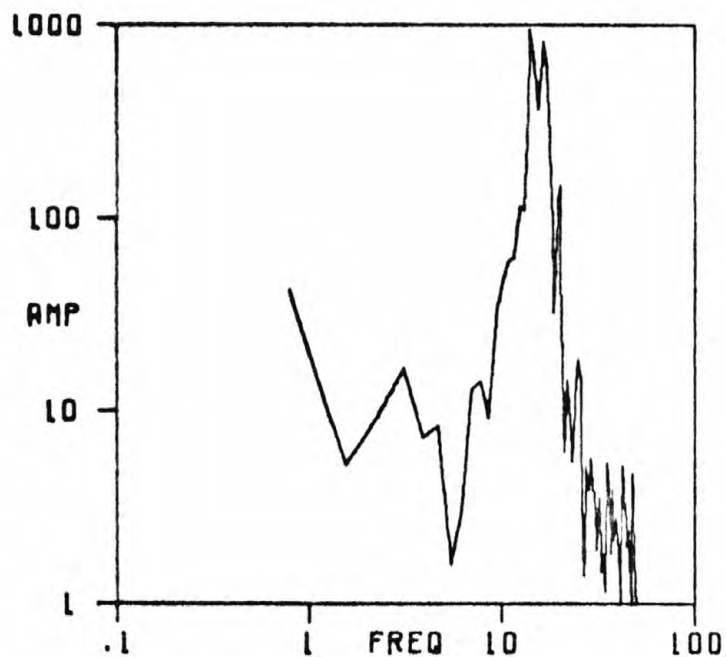
RECORDER LOCATION 471

DISTANCE FROM SHOT (KM) = -911.485

TS SCALE (CM/SEC) = 10.0



372



SAUDI REFRACTION PROFILE 15.20 BP

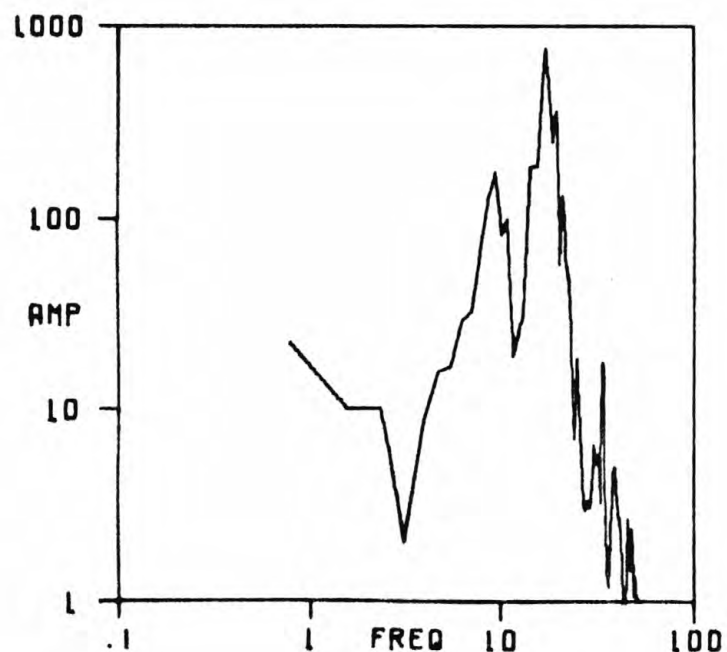
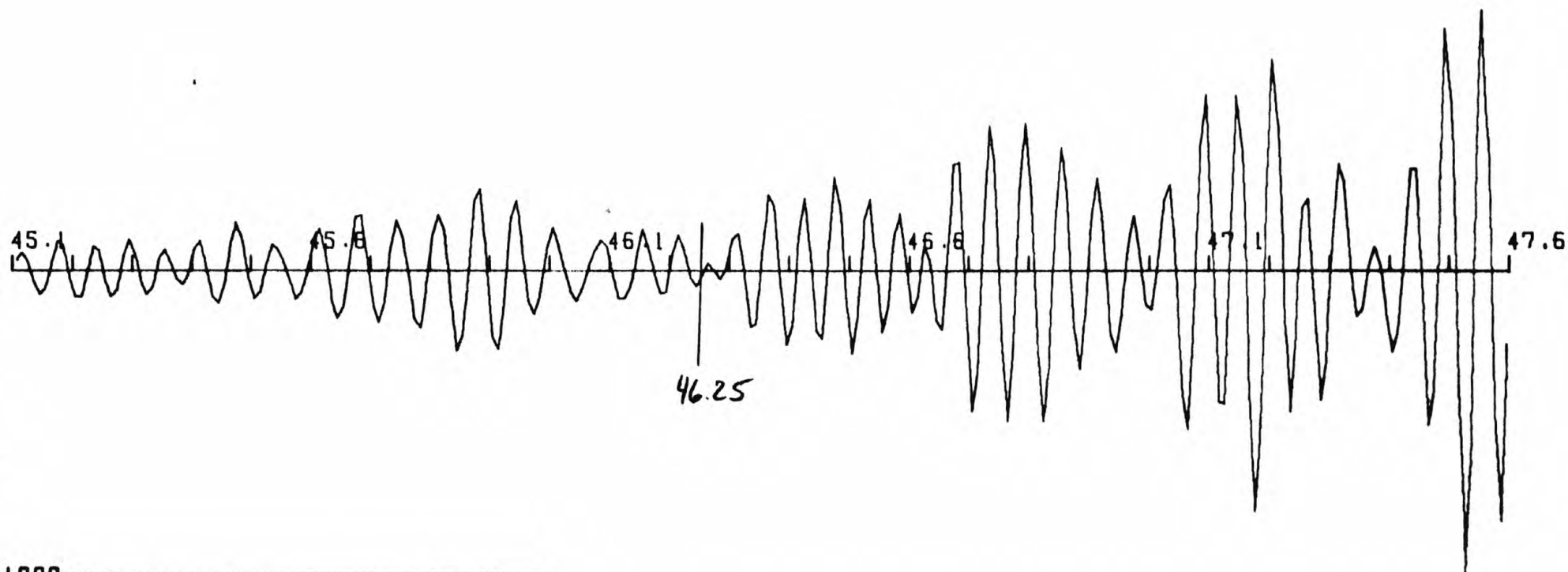
SHOT POINT 2

RECORDER LOCATION 473

DISTANCE FROM SHOT (KM) = -316.119

TSCALE (CM/SEC) = 10.0

373



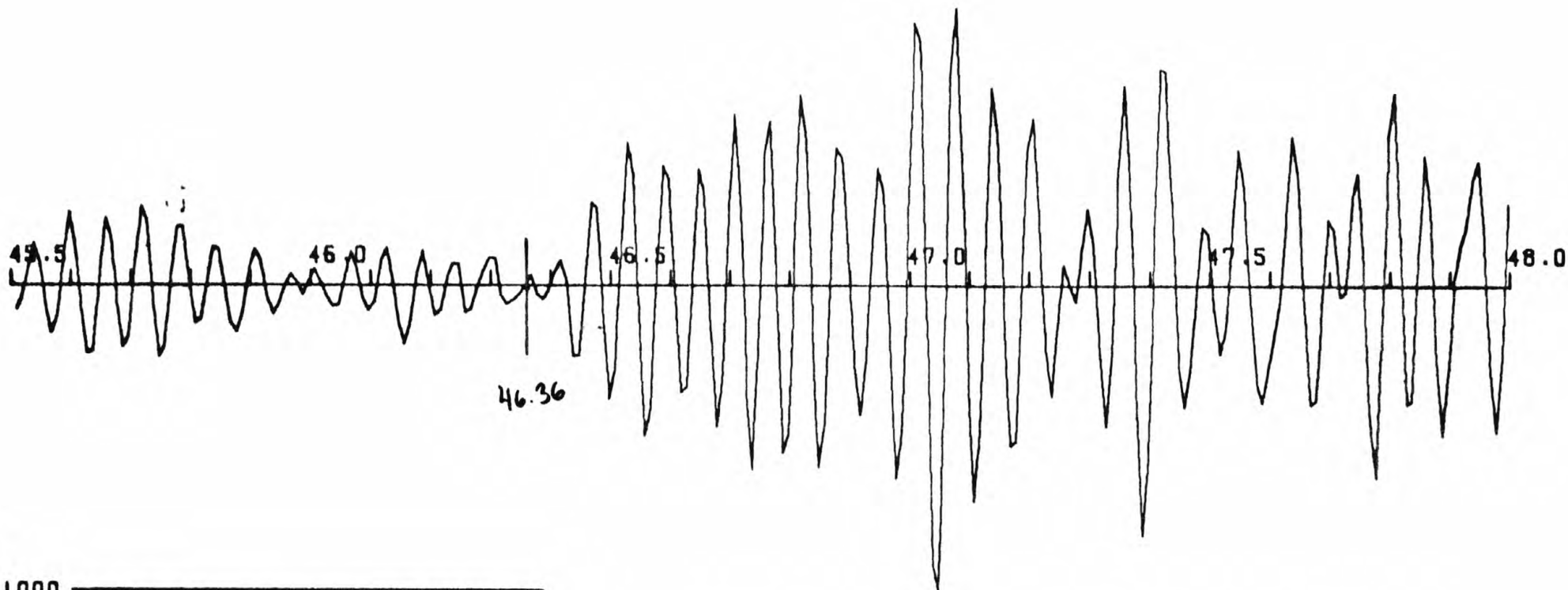
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 2

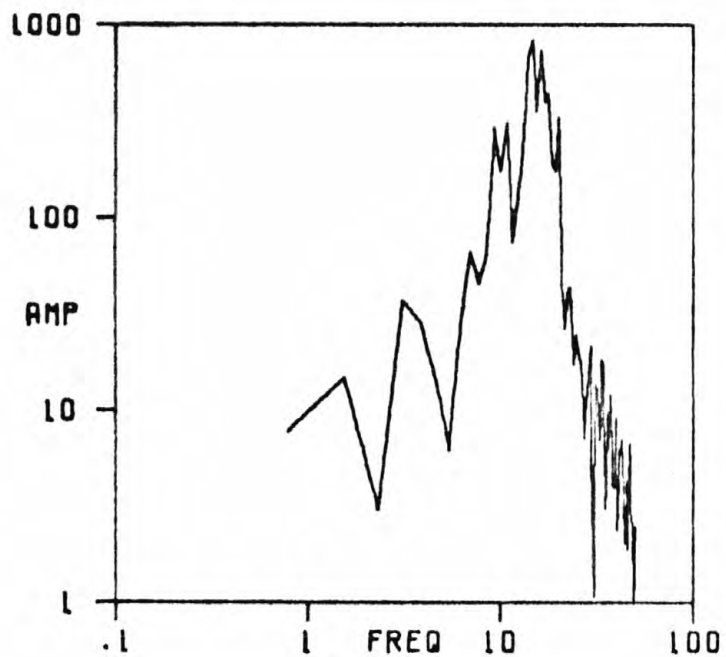
RECORDER LOCATION 474

DISTANCE FROM SHOT (KM) = -318.342

TSCALE (CM/SEC) = 10.0



374



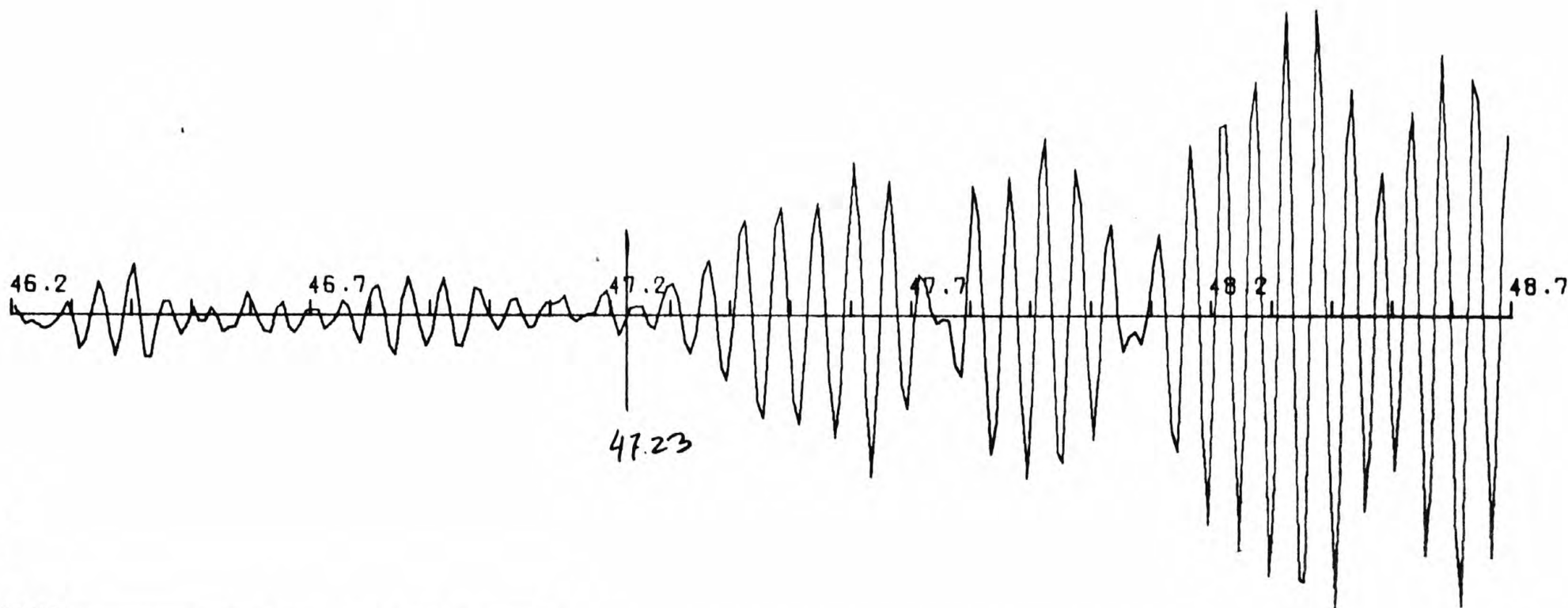
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 2

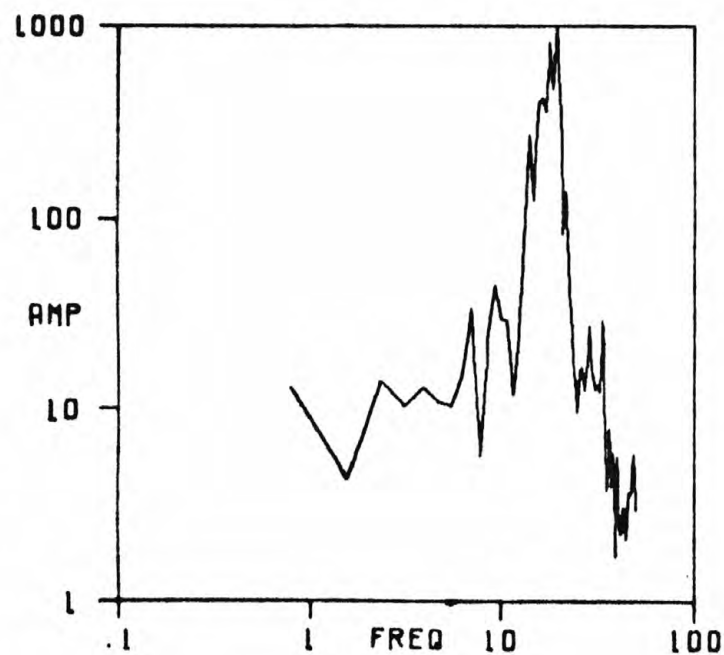
RECORDER LOCATION 475

DISTANCE FROM SHOT (KM) = -320.874

TSCALE (CM/SEC) = 10.0



375



SAUDI REFRACTION PROFILE 15.20 BP

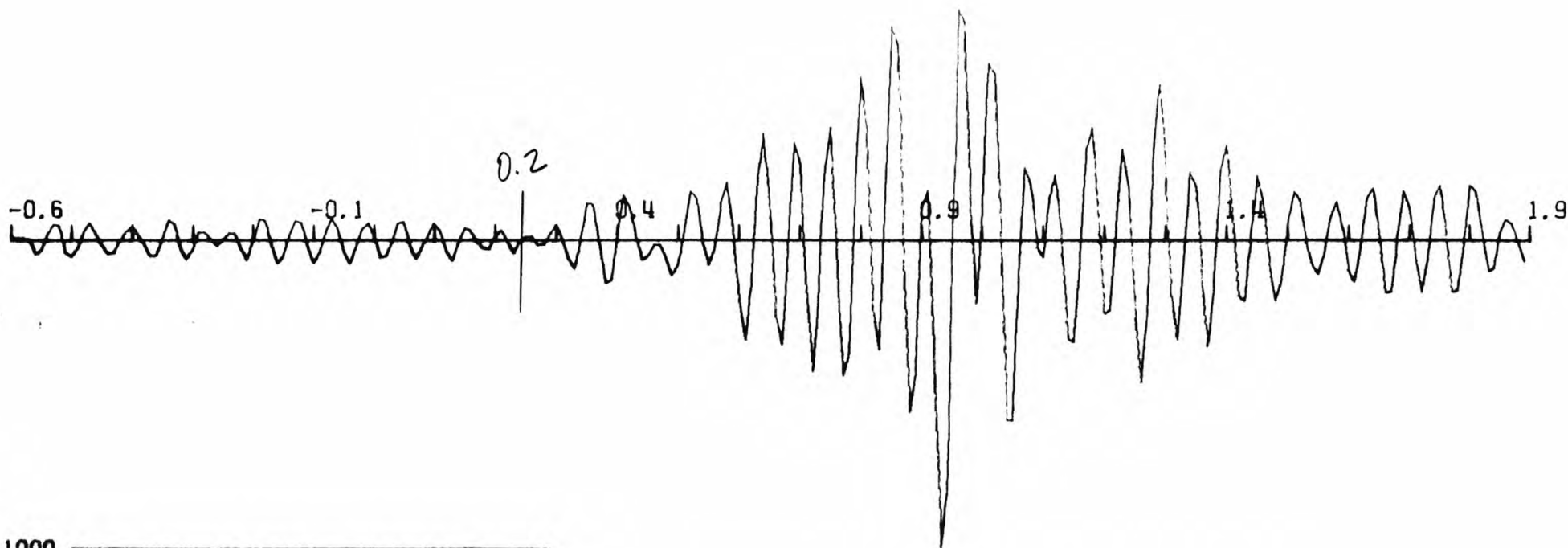
SHOT POINT 2

RECORDER LOCATION 477

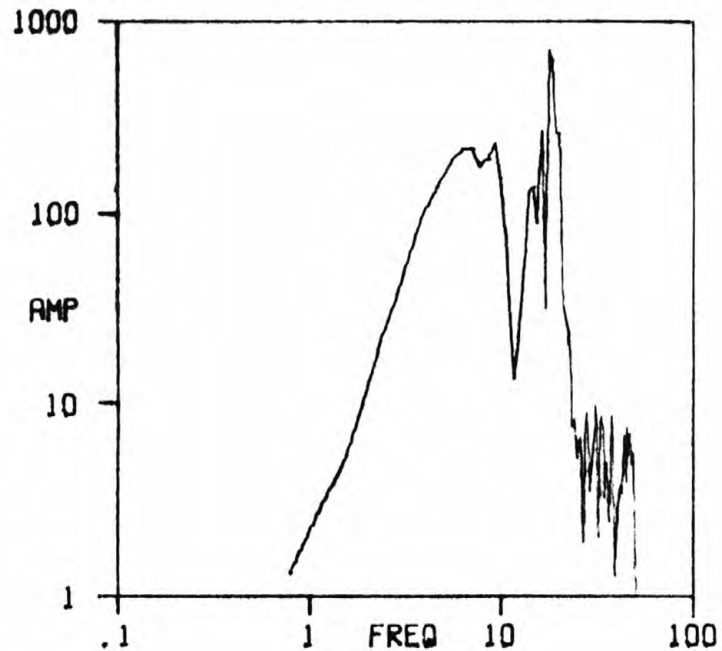
DISTANCE FROM SHOT (KM) = -324.997

TSCALE (CM/SEC) = 10.0

First Arrivals
Southwest from Shot Point 3
(2.2 to 337.2 km)



379



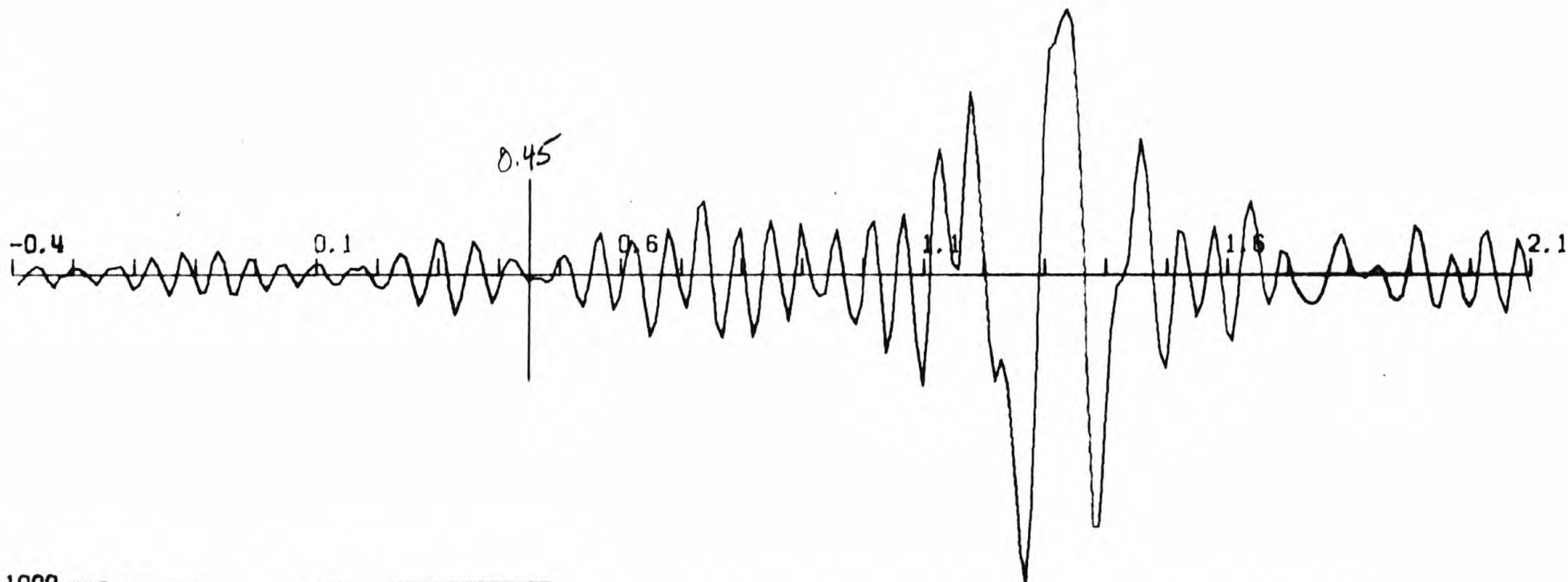
SAUDI REFRACTION PROFILE 15,20 BP

SHOT POINT 3

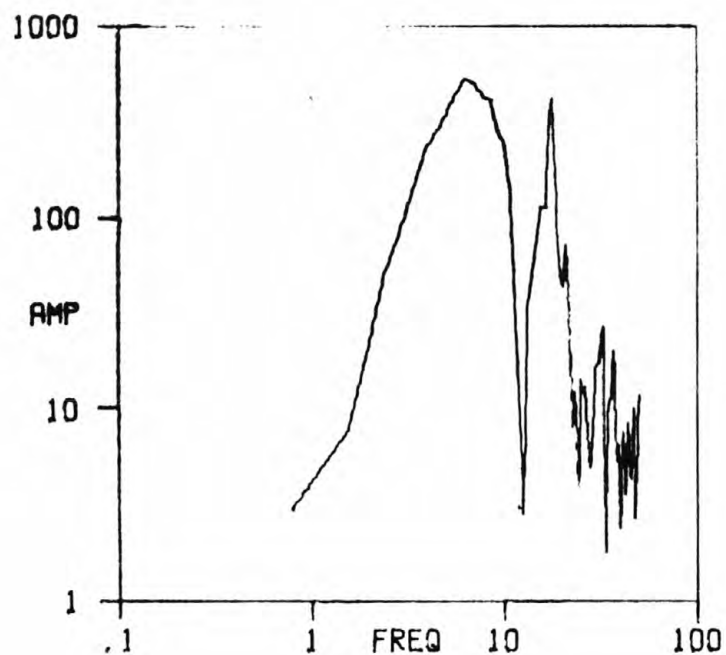
RECORDER LOCATION 409

DISTANCE FROM SHOT (KM) = -2.232

TSCALE (CM/SEC) = 10.0



380



SAUDI REFRACTION PROFILE 15,20 BP

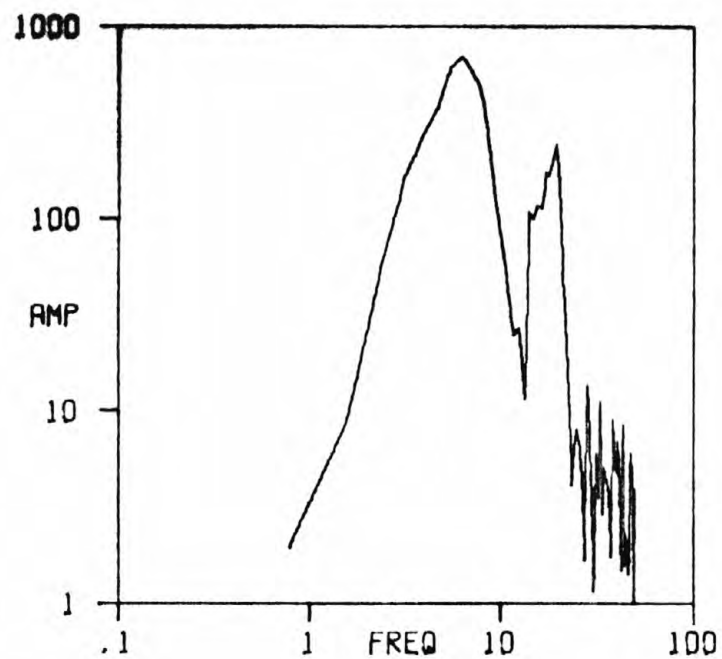
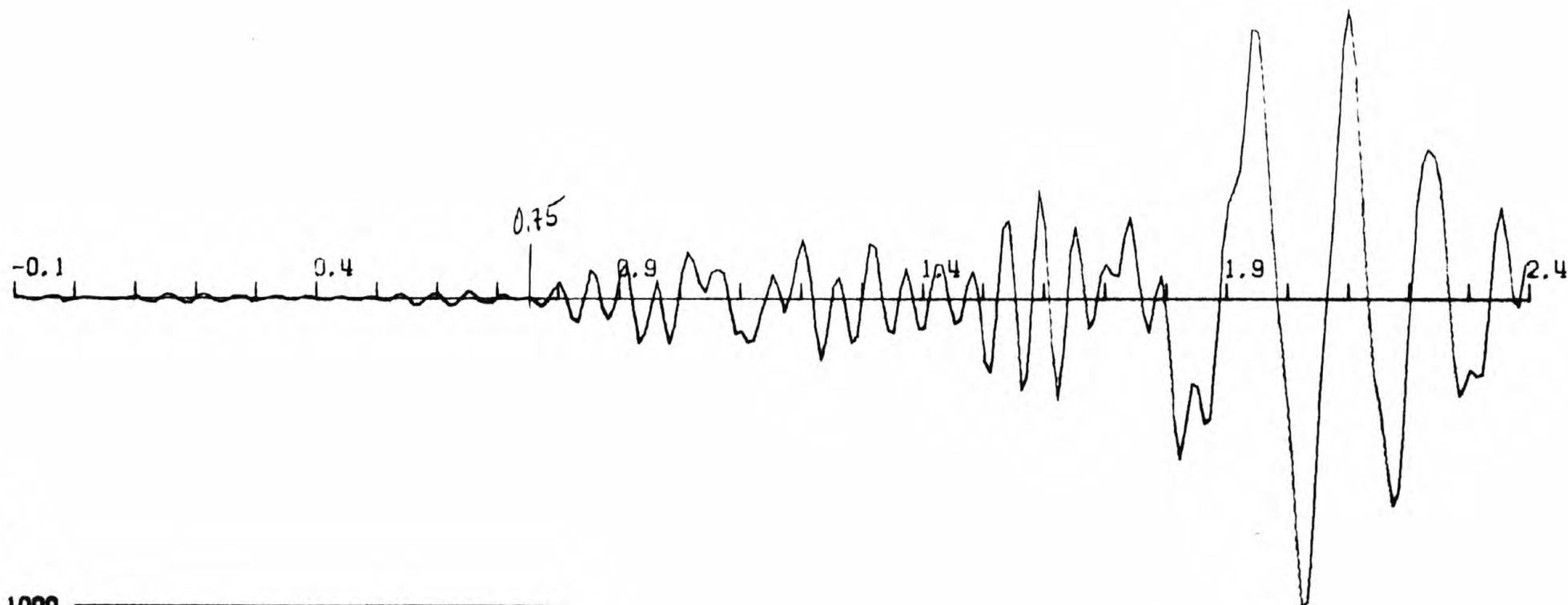
SHOT POINT 3

RECORDER LOCATION 410

DISTANCE FROM SHOT (KM) = -3.180

TSCALE (CM/SEC) = 10.0

381



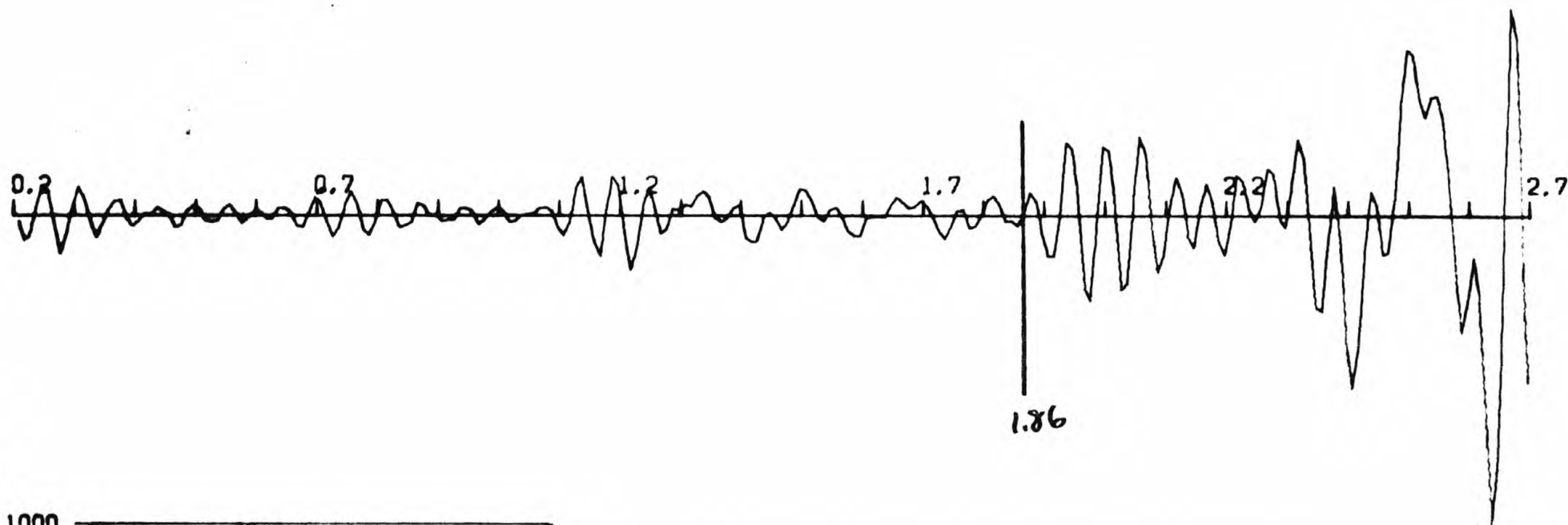
SAUDI REFRACTION PROFILE 15,20 BP

SHOT POINT 3

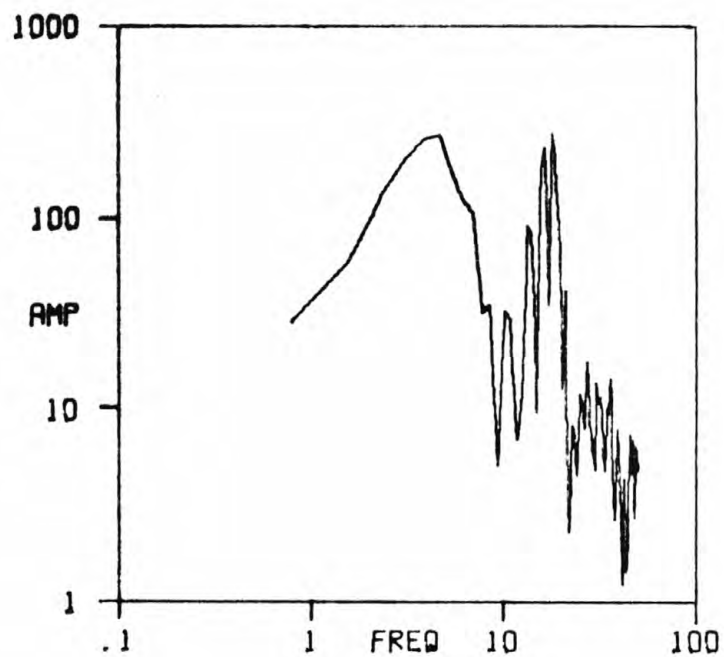
RECORDER LOCATION 411

DISTANCE FROM SHOT (KM) = -4.890

TSCALE (CM/SEC) = 10.0



382



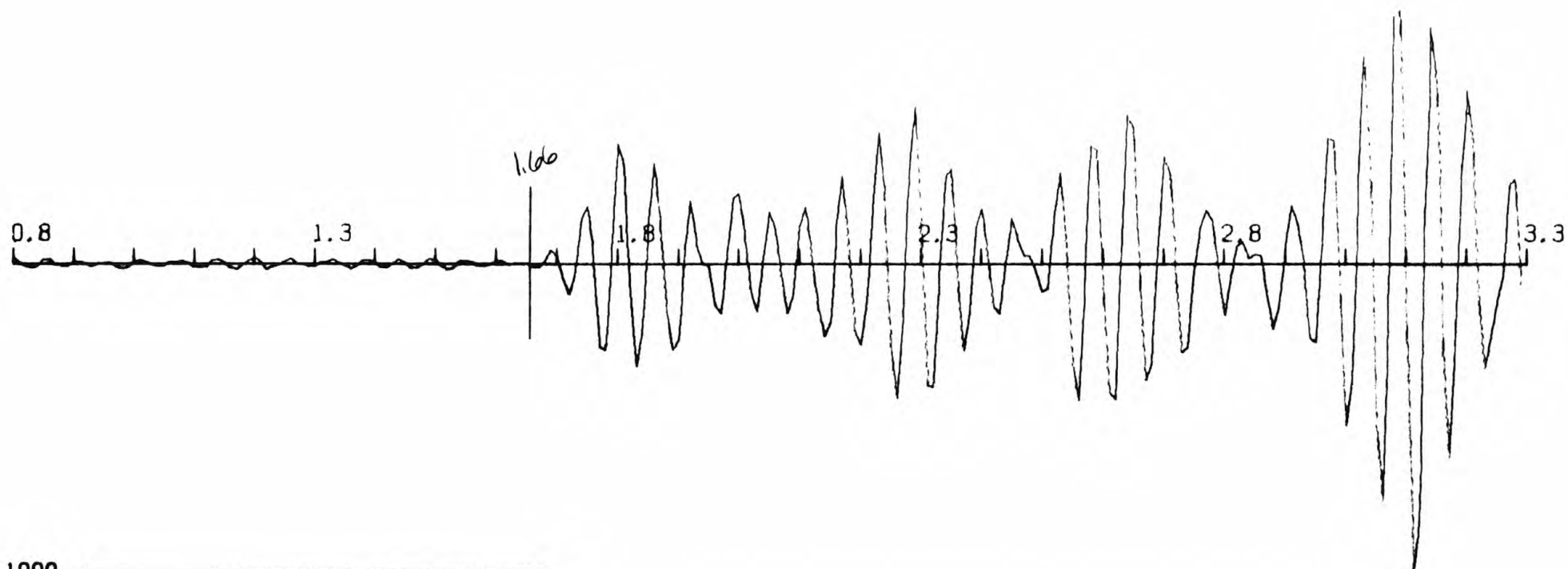
SAUDI REFRACTION PROFILE 15,20 BP

SHOT POINT 3

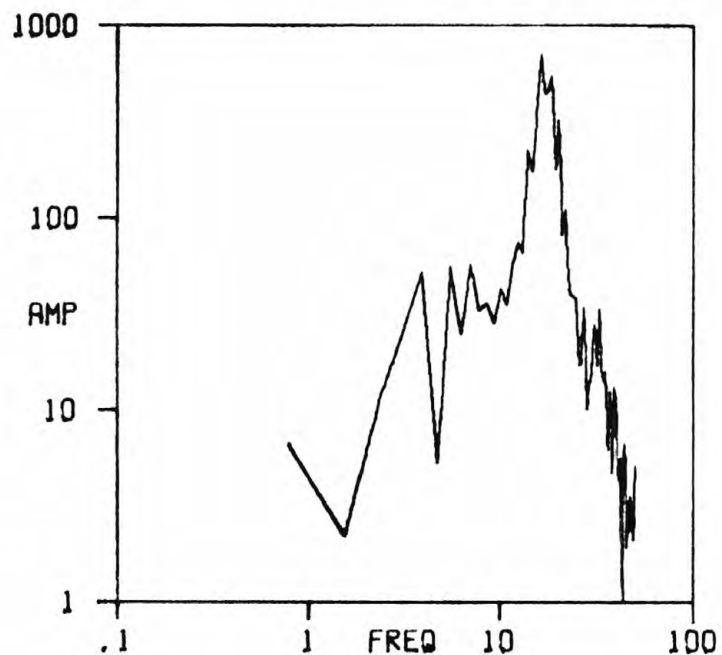
RECORDER LOCATION 412

DISTANCE FROM SHOT (KM) = -6.715

TSCALE (CM/SEC) = 10.0



383



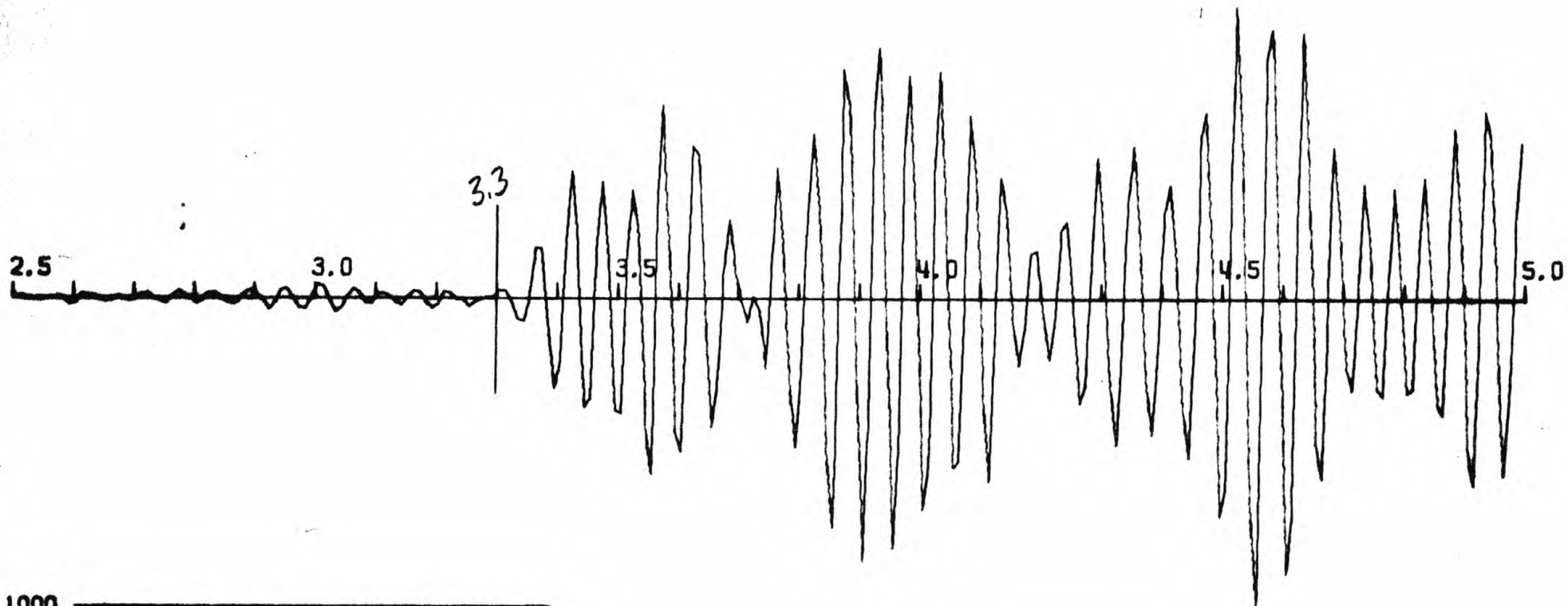
SAUDI REFRACTION PROFILE 15,20 BP

SHOT POINT 3

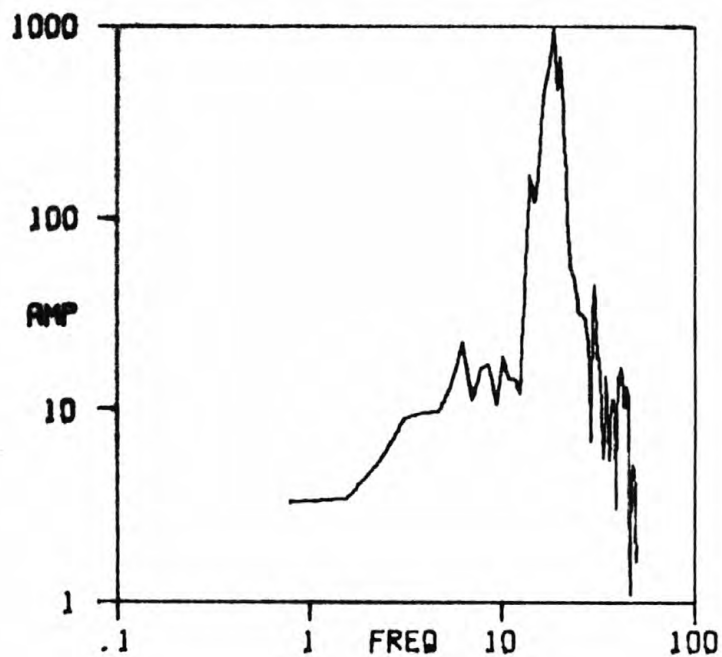
RECORDER LOCATION 414

DISTANCE FROM SHOT (KM) = -10.695

TSCALE (CM/SEC) = 10.0



384



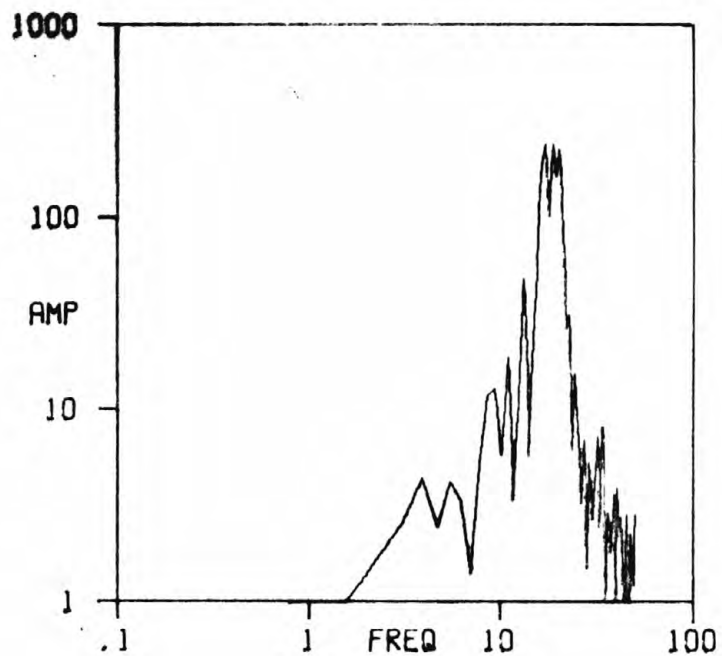
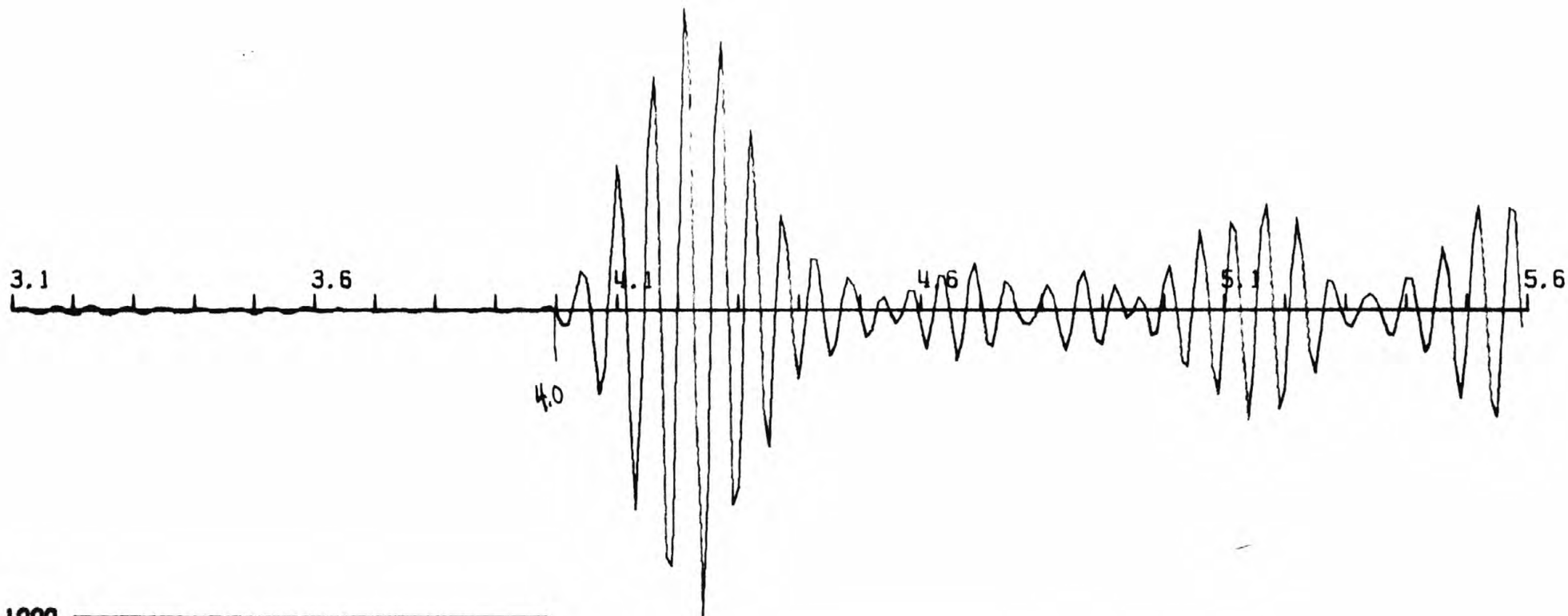
SAUDI REFRACTION PROFILE 15,20 BP

SHOT POINT 3

RECORDER LOCATION 418

DISTANCE FROM SHOT (KM) = -20.435

TSCALE (CM/SEC) = 10.0



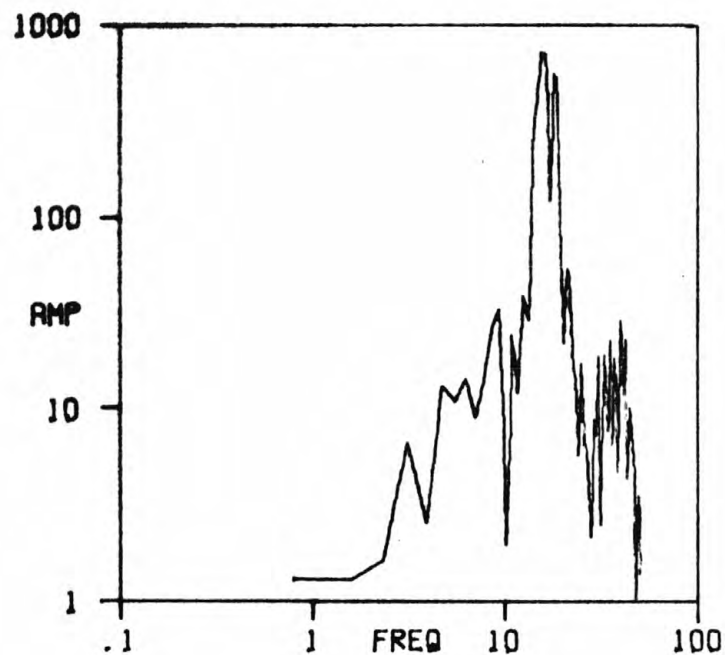
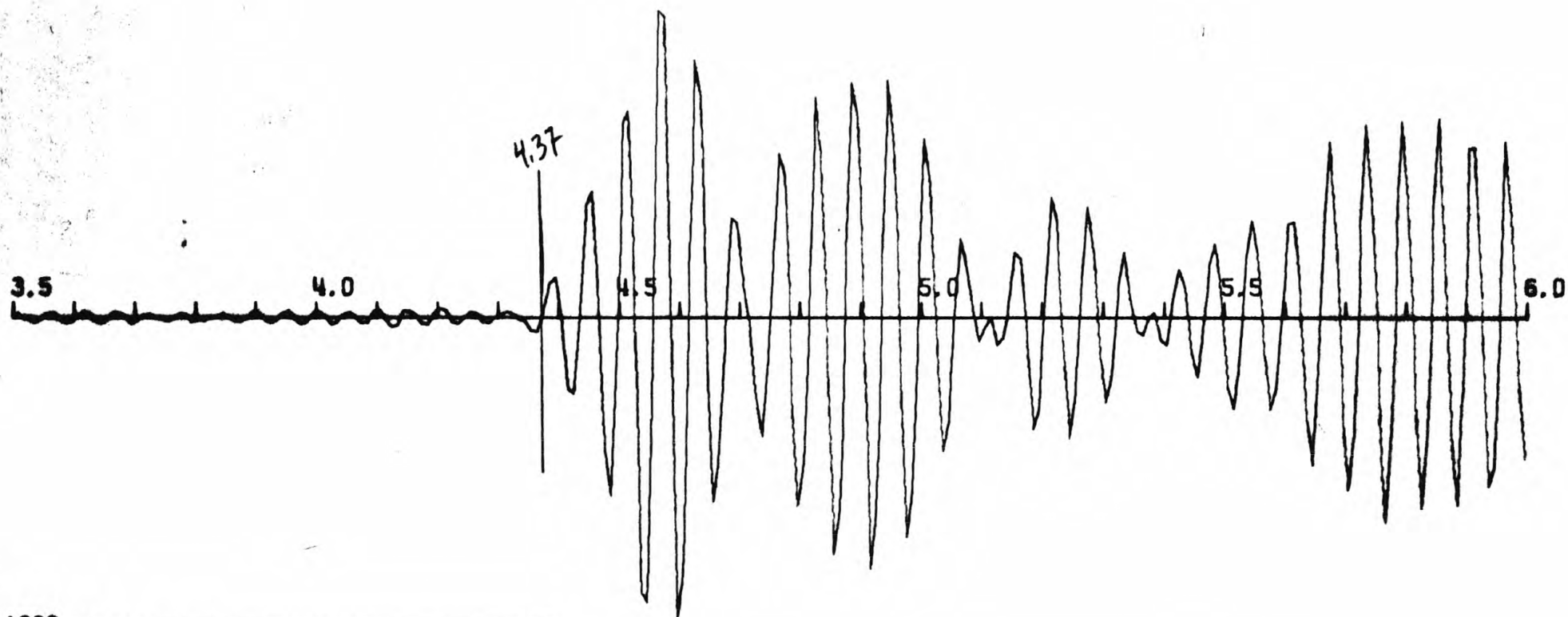
SAUDI REFRACTION PROFILE 15,20 BP

SHOT POINT 3

RECORDER LOCATION 420

DISTANCE FROM SHOT (KM) = -24.370

TSCALE (CM/SEC) = 10.0



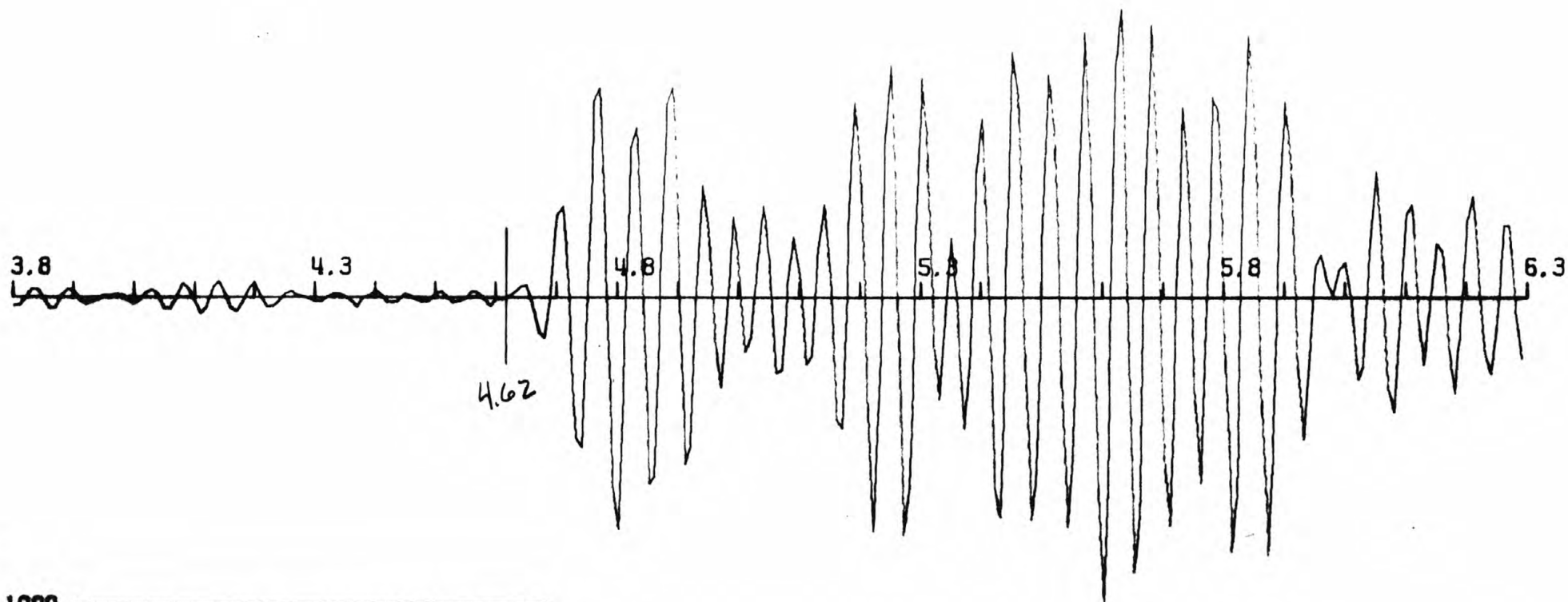
SAUDI REFRACTION PROFILE 15,20 BP

SHOT POINT 3

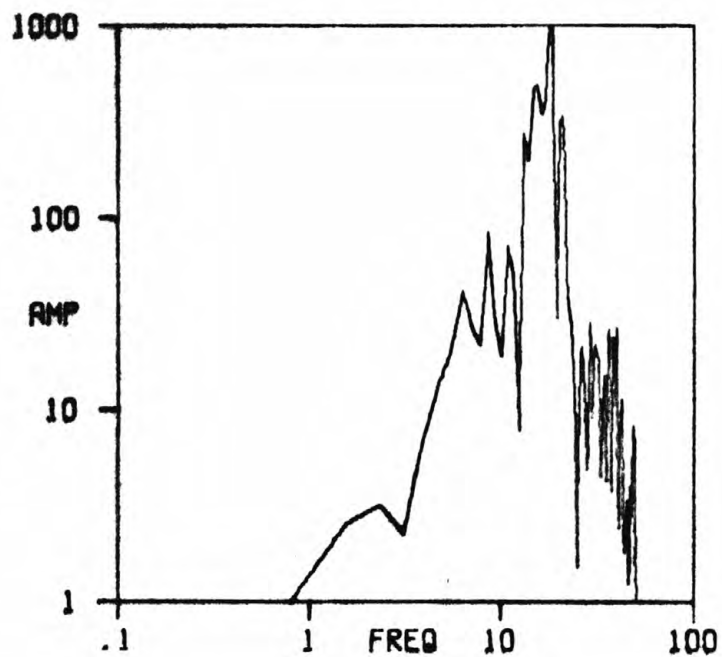
RECORDER LOCATION 421

DISTANCE FROM SHOT (KM) = -26.502

TSCALE (CM/SEC) = 10.0



387



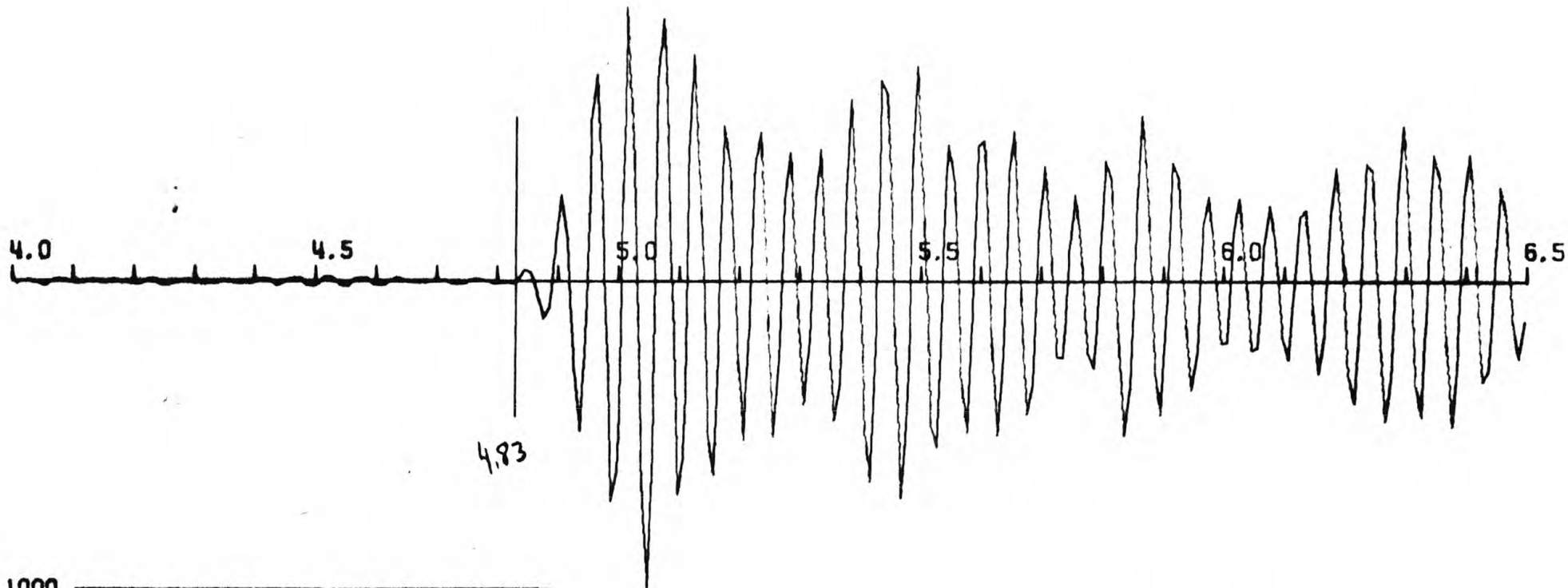
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 3

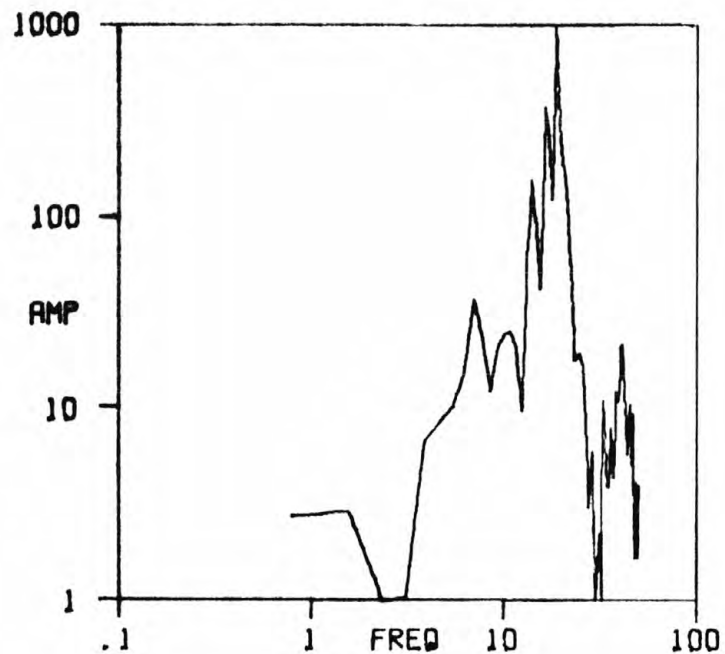
RECORDER LOCATION 422

DISTANCE FROM SHOT (KM) = -28.335

TSCALE (CM/SEC) = 10.0



388



SAUDI REFRACTION PROFILE 15,20 BP

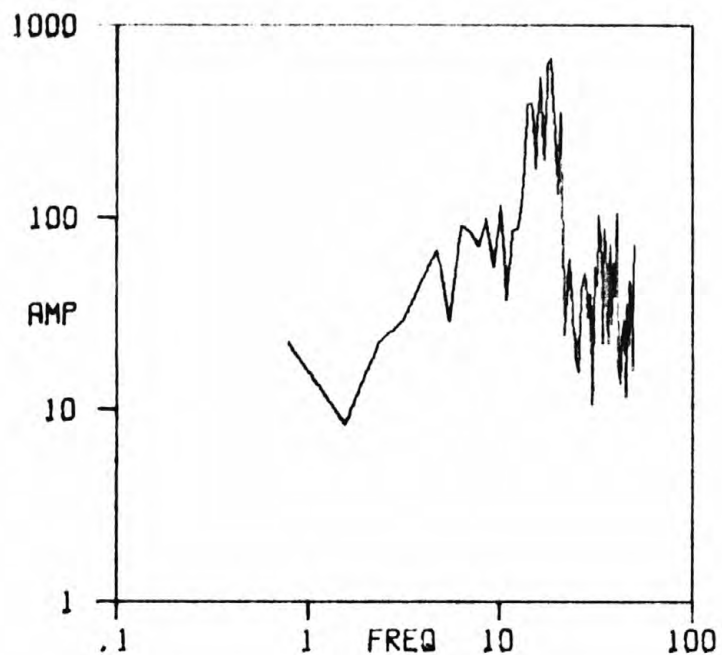
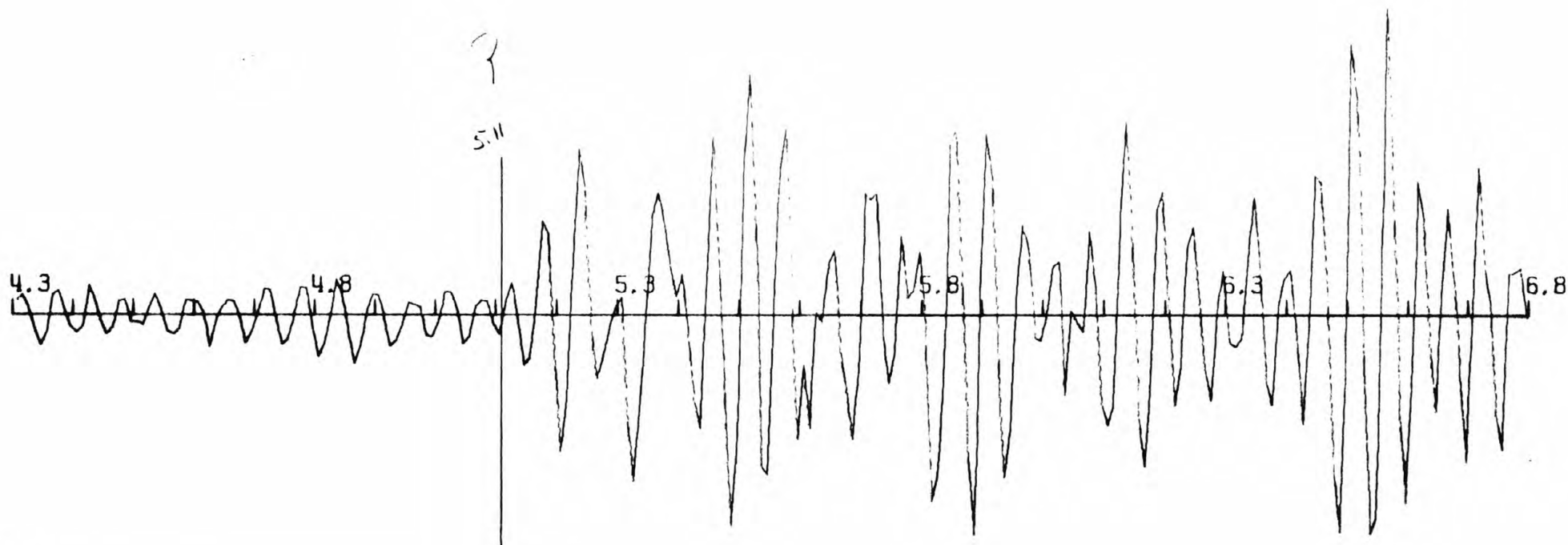
SHOT POINT 3

RECORDER LOCATION 423

DISTANCE FROM SHOT (KM) = -29.622

TSCALE (CM/SEC) = 10.0

389



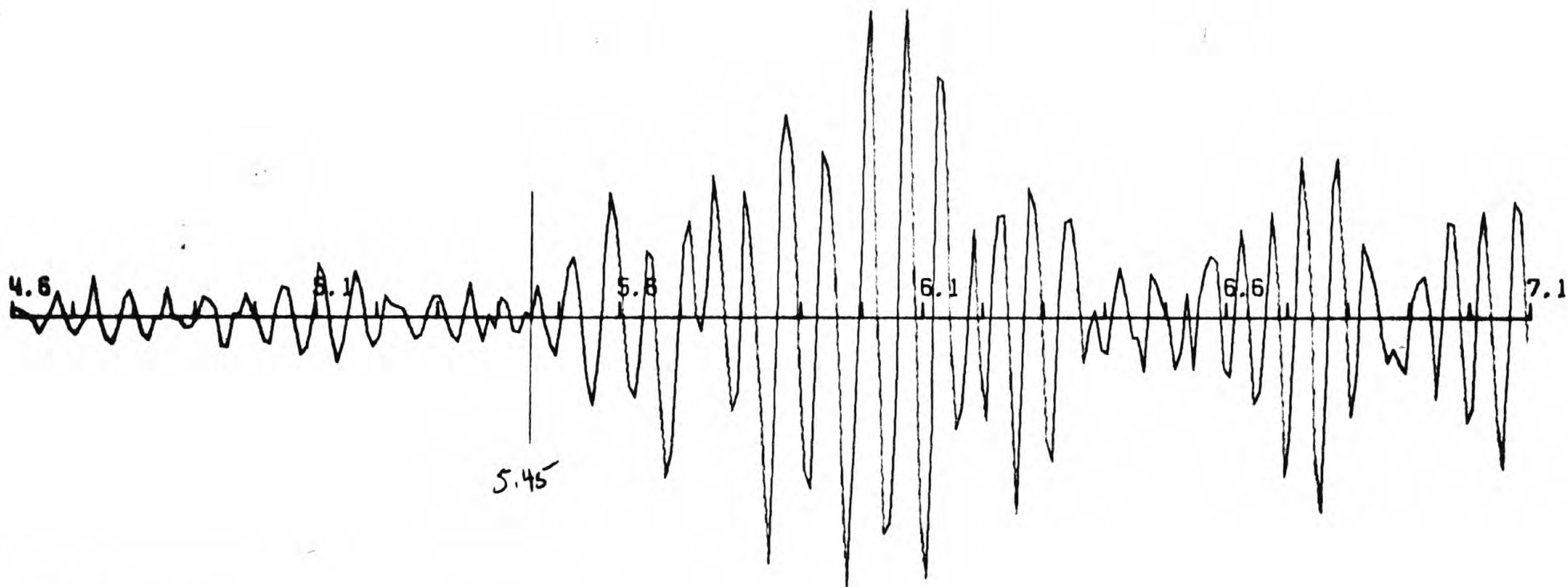
SAUDI REFRACTION PROFILE 15,20 BP

SHOT POINT 3

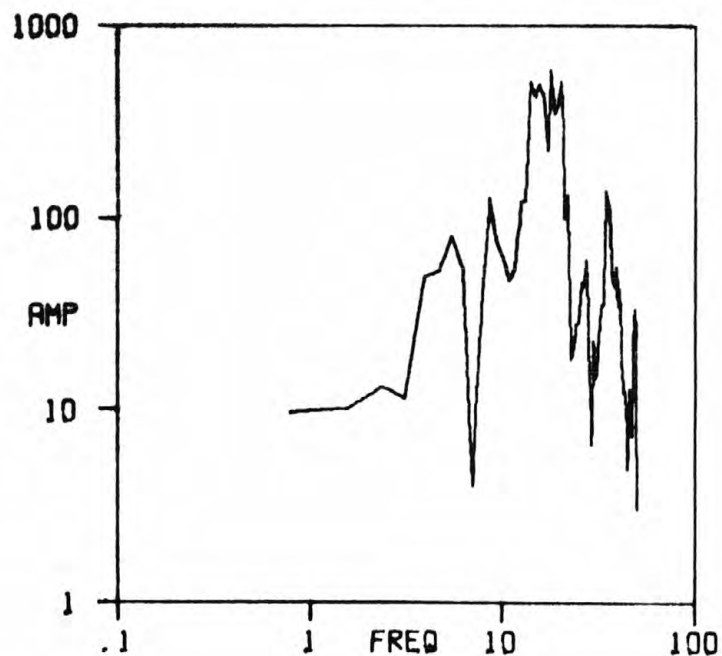
RECORDER LOCATION 424

DISTANCE FROM SHOT (KM) = -31.311

TSCALE (CM/SEC) = 10.0



390



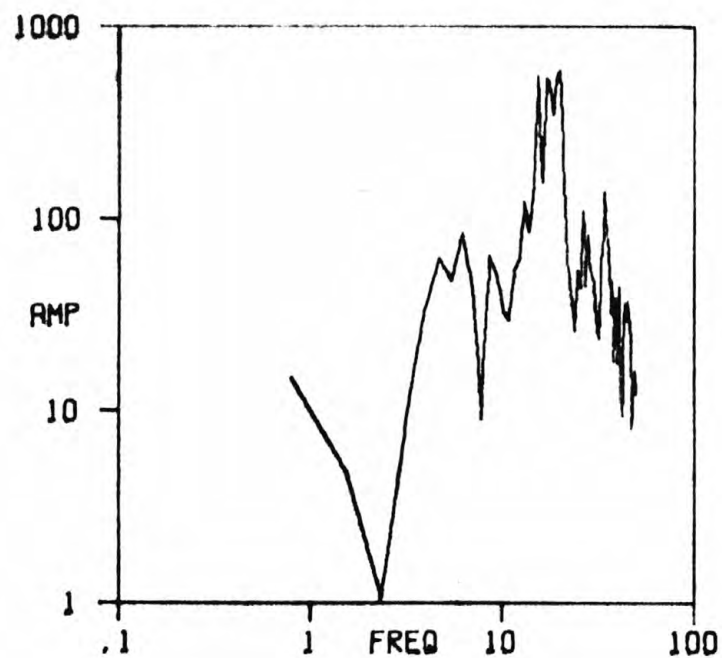
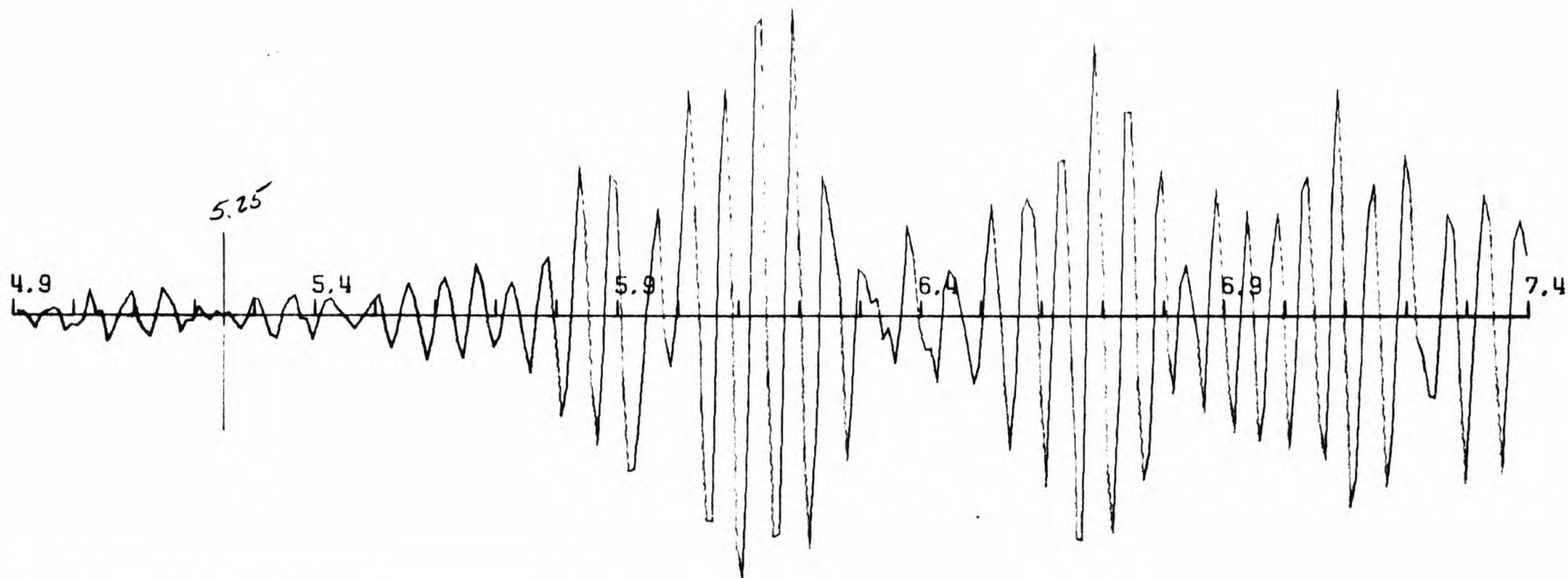
SAUDI REFRACTION PROFILE 15,20 BP

SHOT POINT 3

RECORDER LOCATION 425

DISTANCE FROM SHOT (KM) = -33.399

TSCALE (CM/SEC) = 10.0



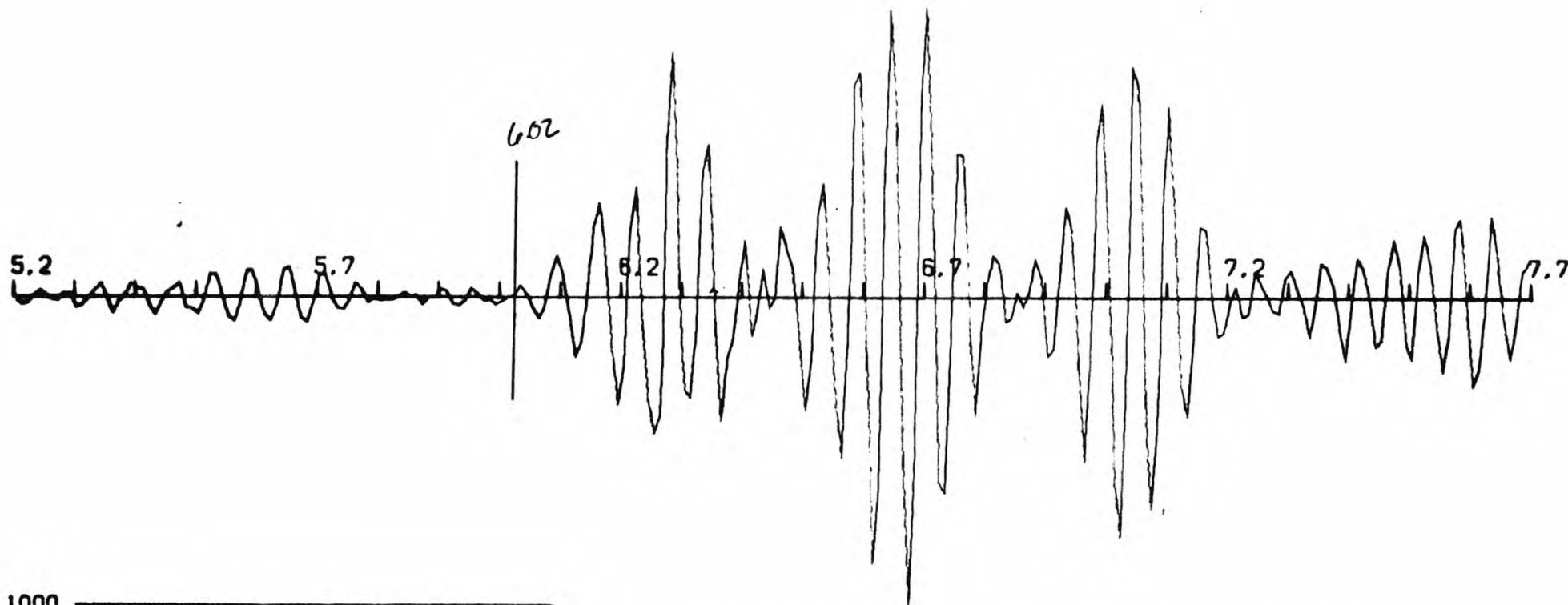
SAUDI REFRACTION PROFILE 15,20 BP

SHOT POINT 3

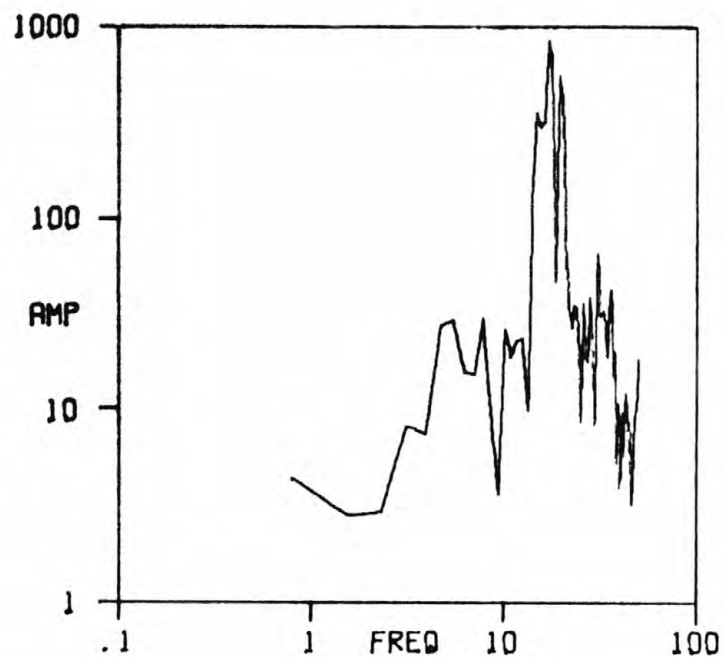
RECORDER LOCATION 426

DISTANCE FROM SHOT (KM) = -35.092

TSCALE (CM/SEC) = 10.0



392



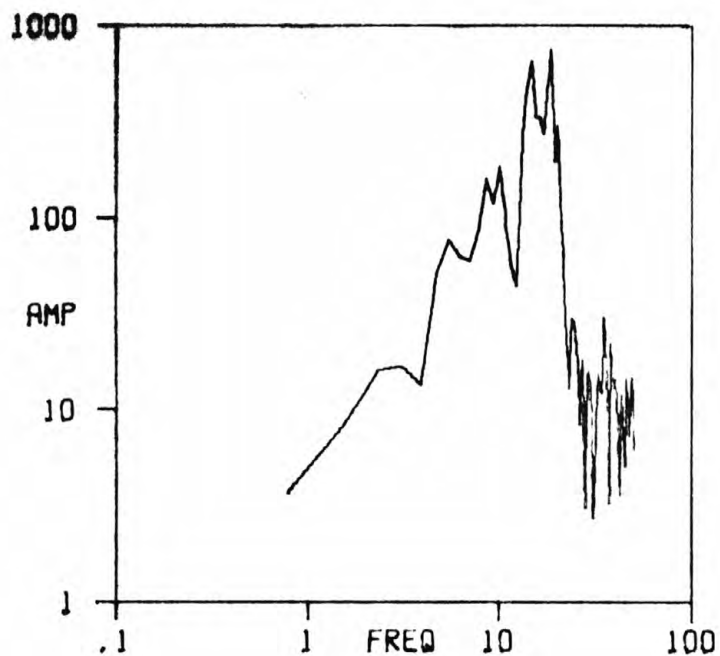
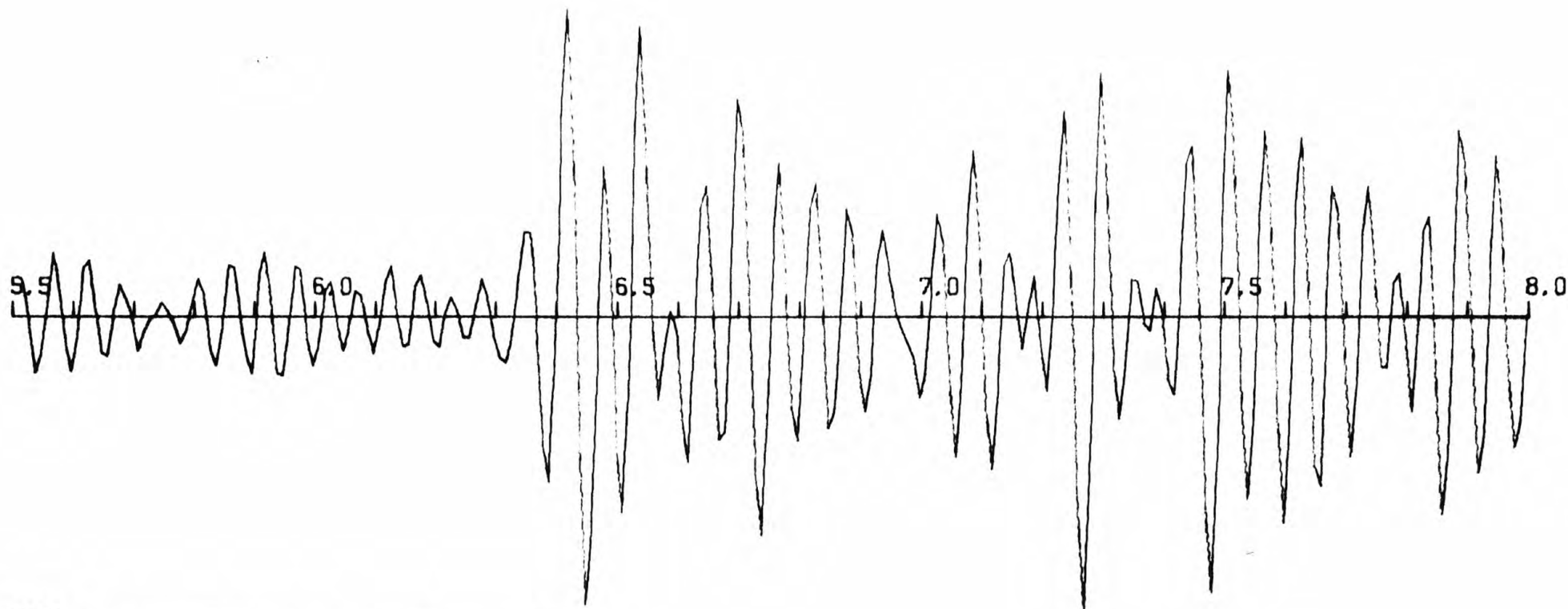
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 3

RECORDER LOCATION 427

DISTANCE FROM SHOT (KM) = -37.057

TSCALE (CM/SEC) = 10.0



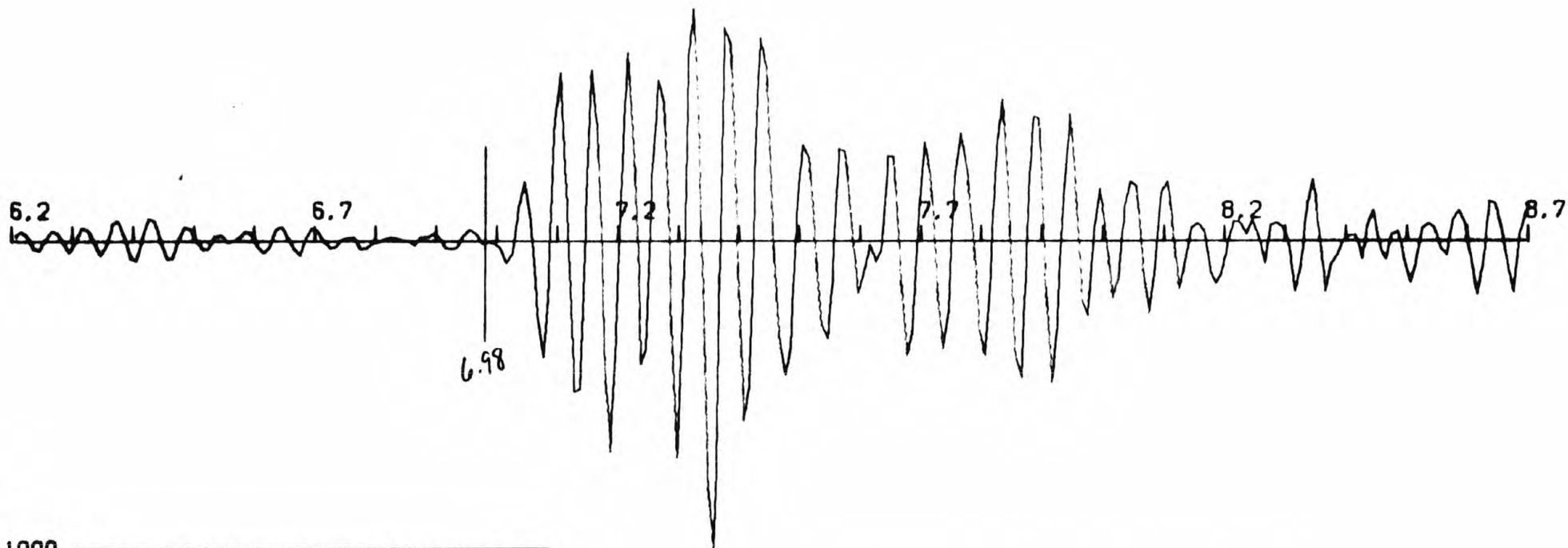
SAUDI REFRACTION PROFILE 15,20 BP

SHOT POINT 3

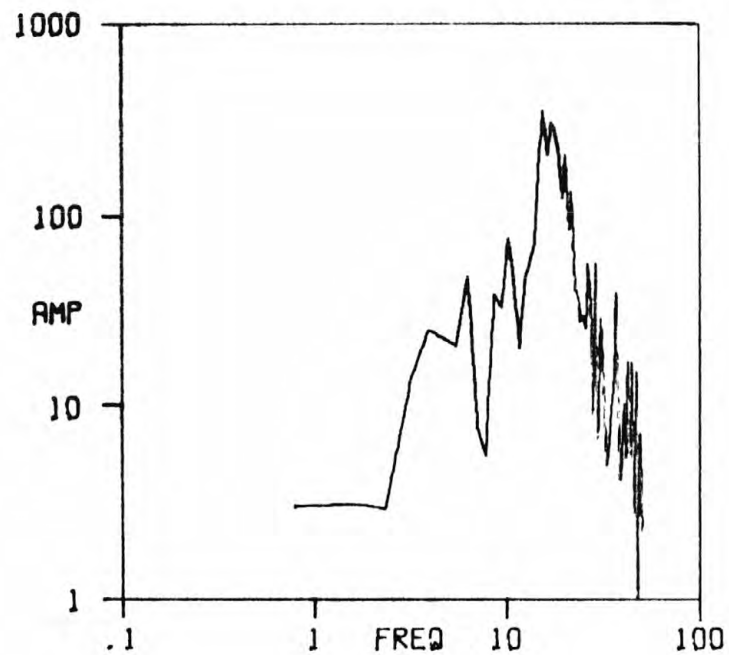
RECORDER LOCATION 428

DISTANCE FROM SHOT (KM) = -38.512

TSCALE (CM/SEC) = 10.0



394



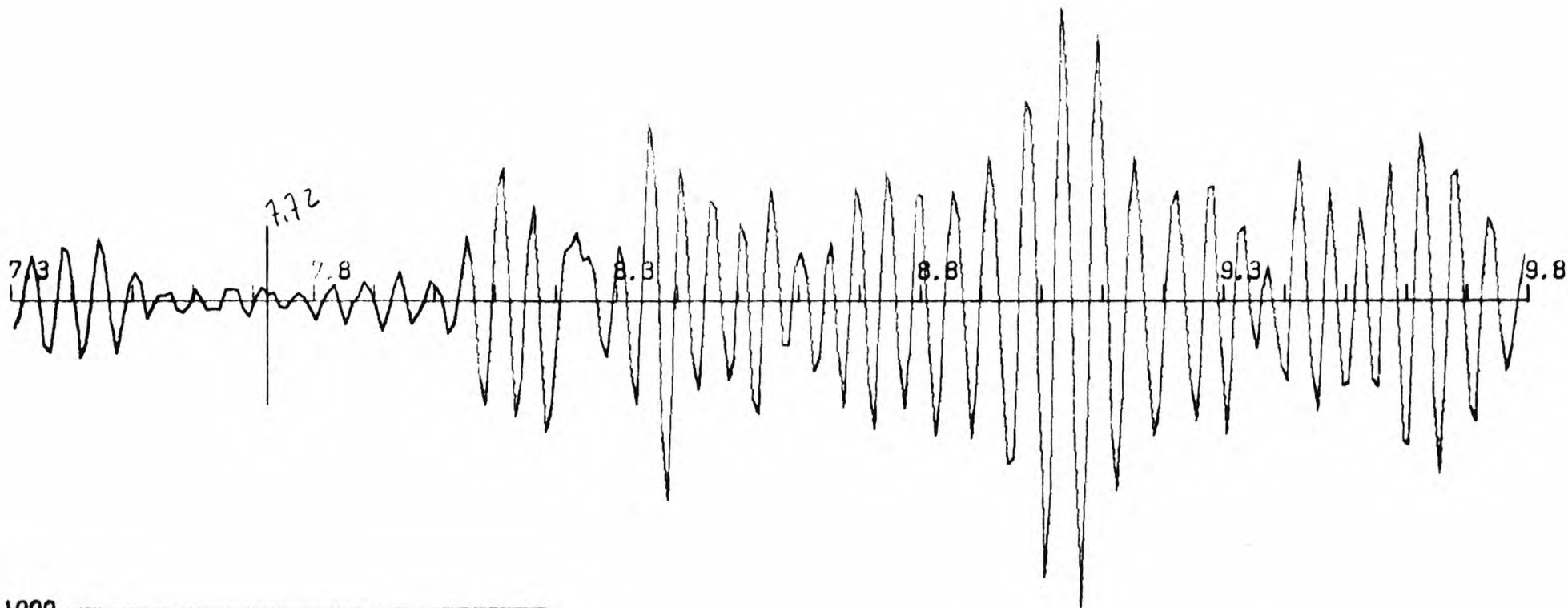
SAUDI REFRACTION PROFILE 15,20 BP

SHOT POINT 3

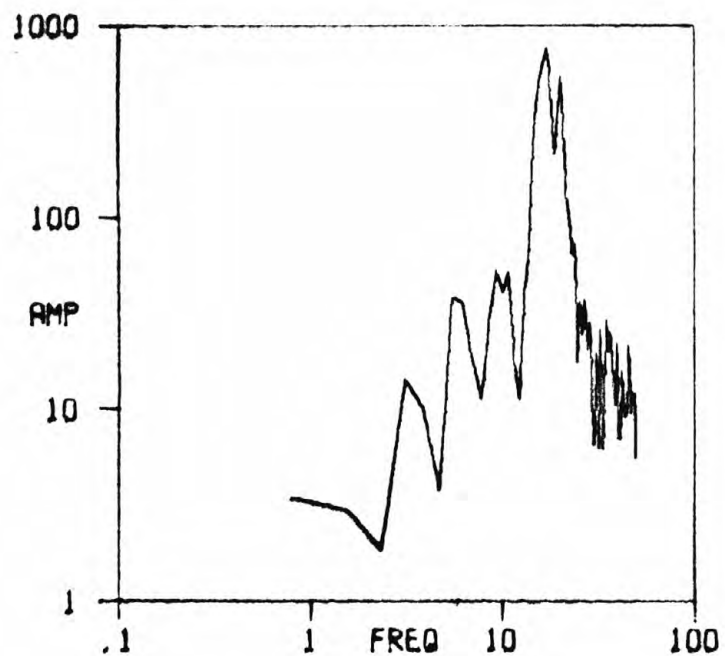
RECORDER LOCATION 431

DISTANCE FROM SHOT (KM) = -43.065

TSCALE (CM/SEC) = 10.0



395



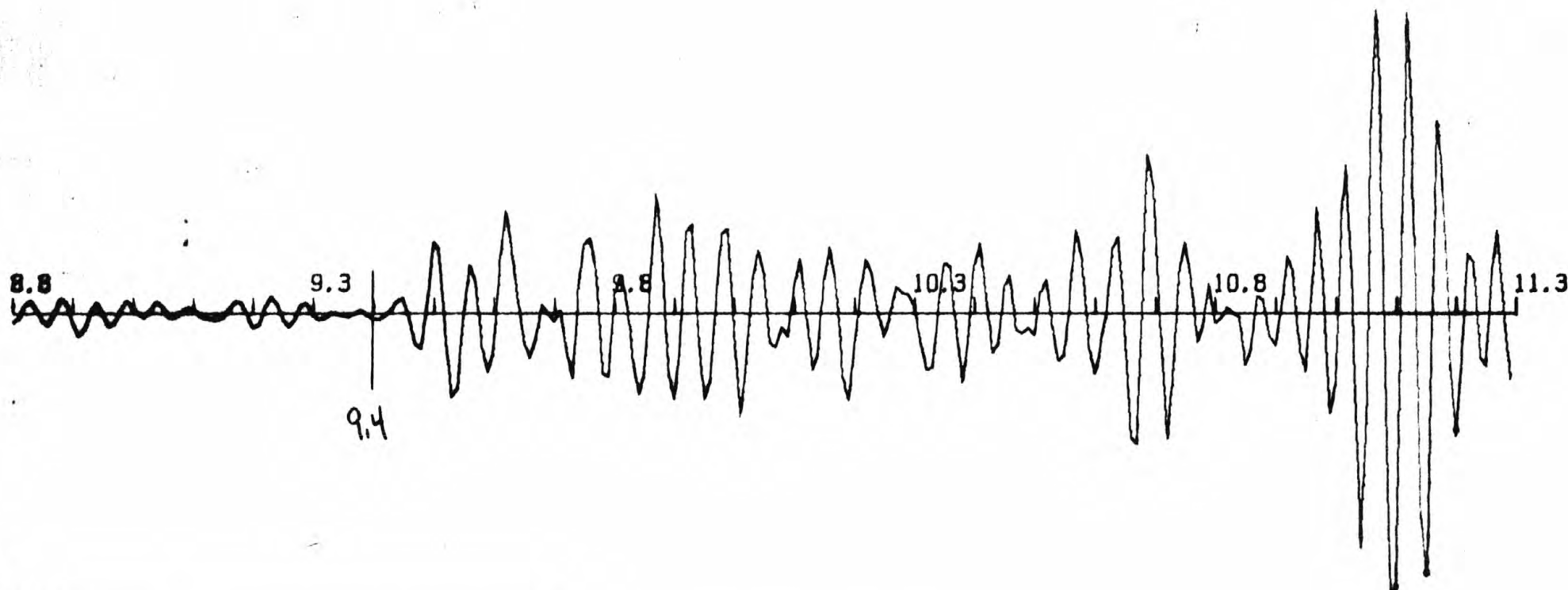
SAUDI REFRACTION PROFILE 15,20 BP

SHOT POINT 3

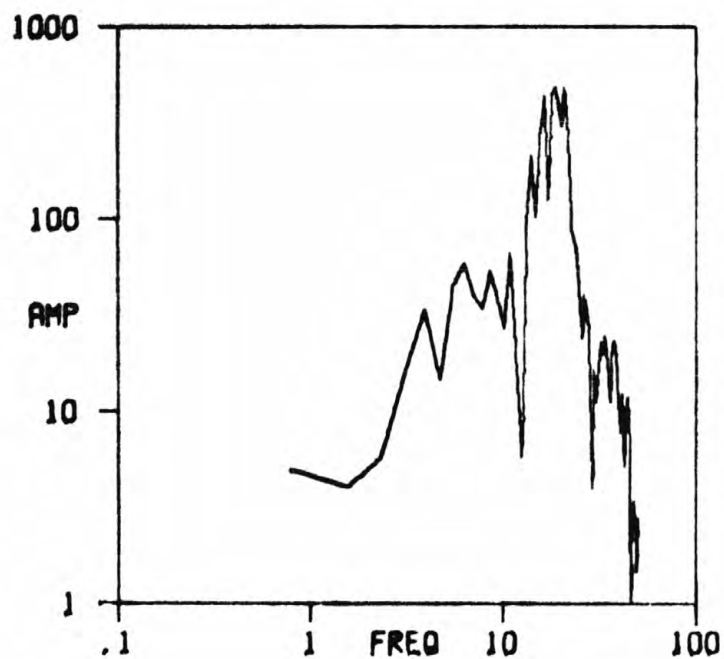
RECORDER LOCATION 434

DISTANCE FROM SHOT (KM) = -49.717

TSCALE (CM/SEC) = 10.0



396



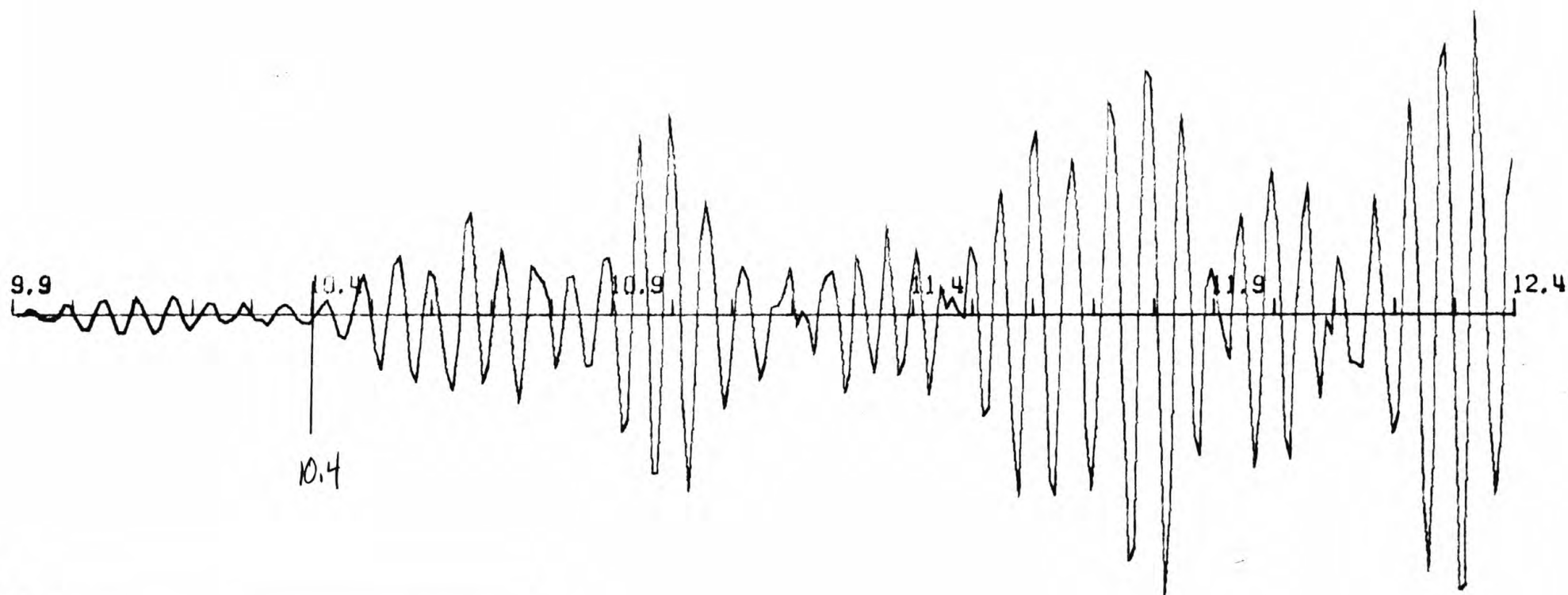
SAUDI REFRACTION PROFILE 15,20 BP

SHOT POINT 3

RECORDER LOCATION 438

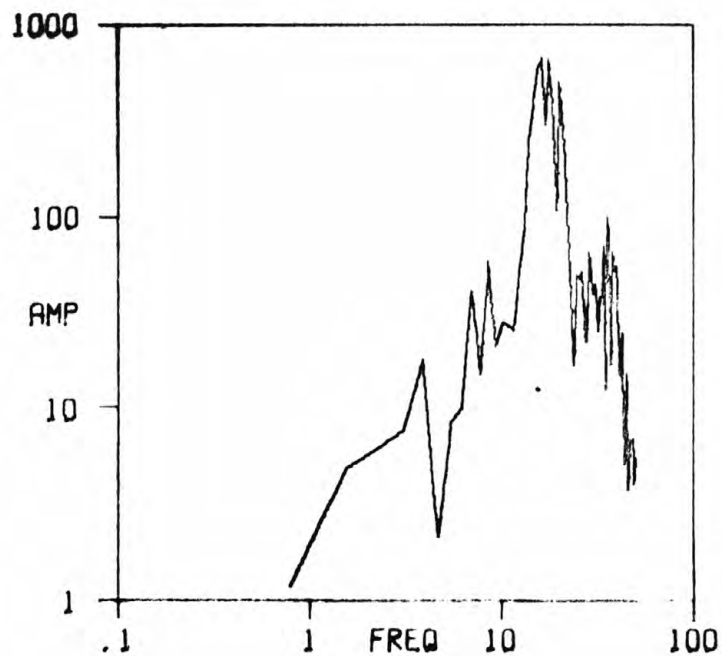
DISTANCE FROM SHOT (KM) = ~58.386

TSCALE (CM/SEC) = 10.0



10.4

397



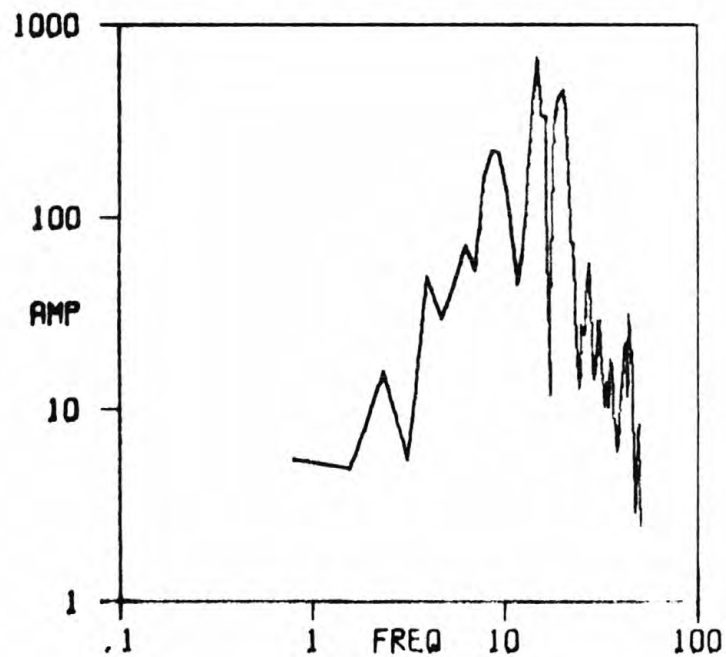
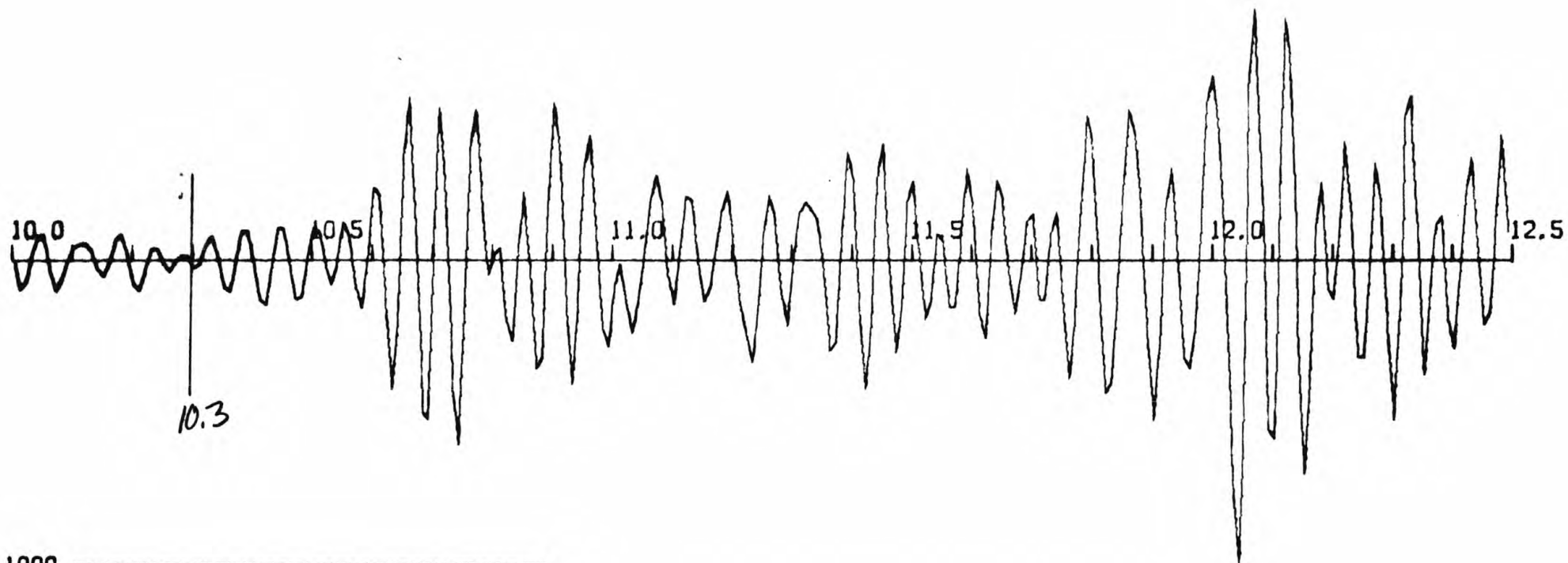
SAUDI REFRACTION PROFILE 15,20 BP

SHOT POINT 3

RECORDER LOCATION 441

DISTANCE FROM SHOT (KM) = -65,149

TSCALE (CM/SEC) = 10.0



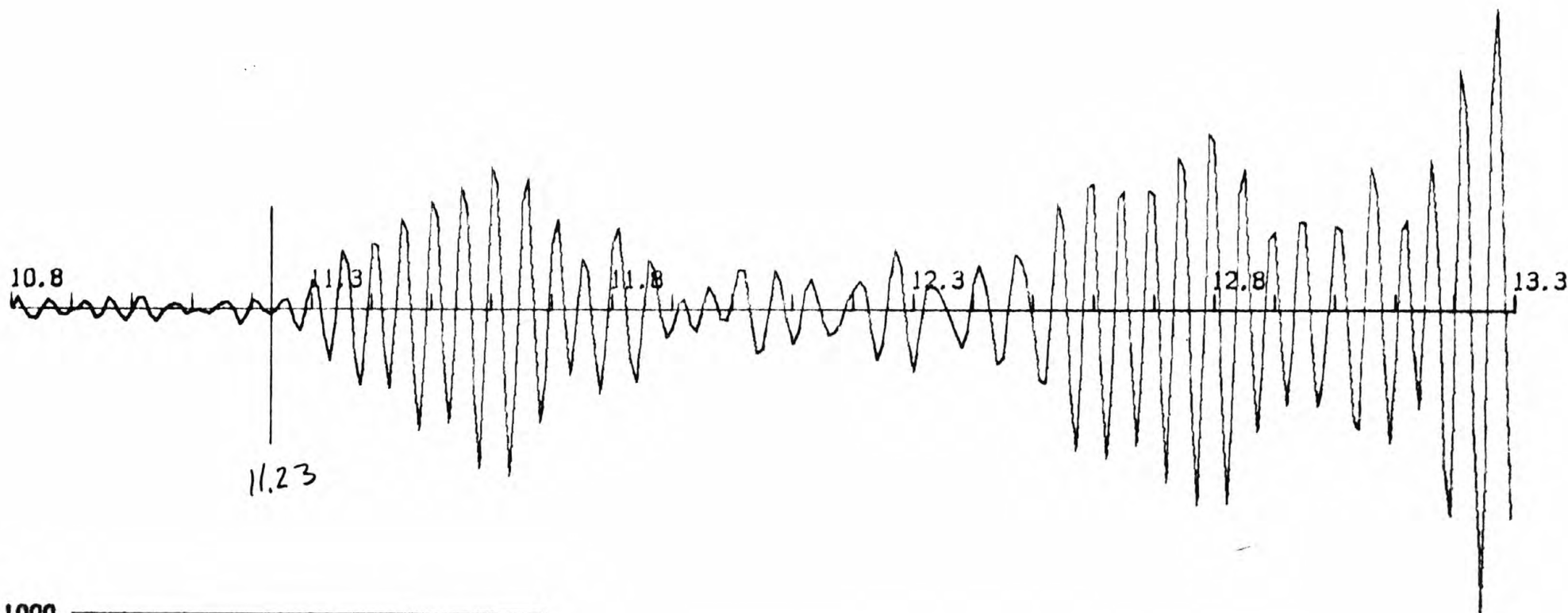
SAUDI REFRACTION PROFILE 15,20 BP

SHOT POINT 3

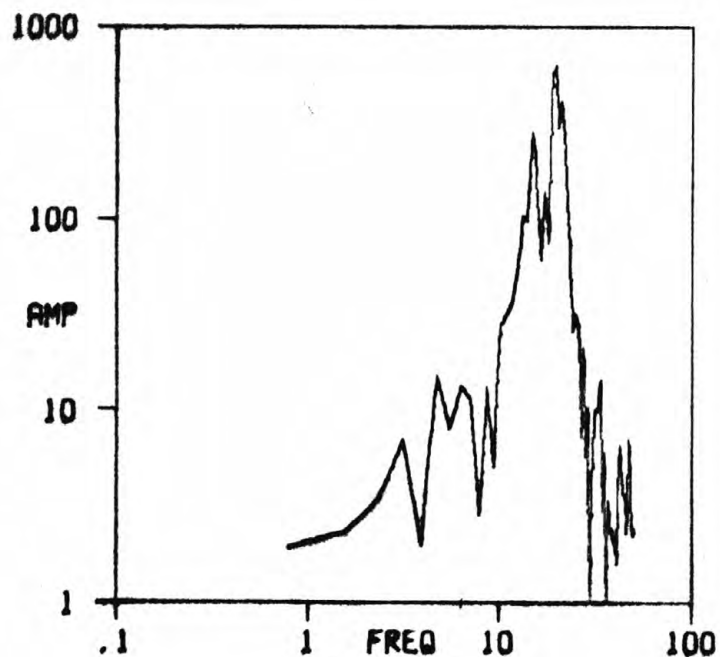
RECORDER LOCATION 442

DISTANCE FROM SHOT (KM) = ~65,727

TSCALE (CM/SEC) = 10.0



399



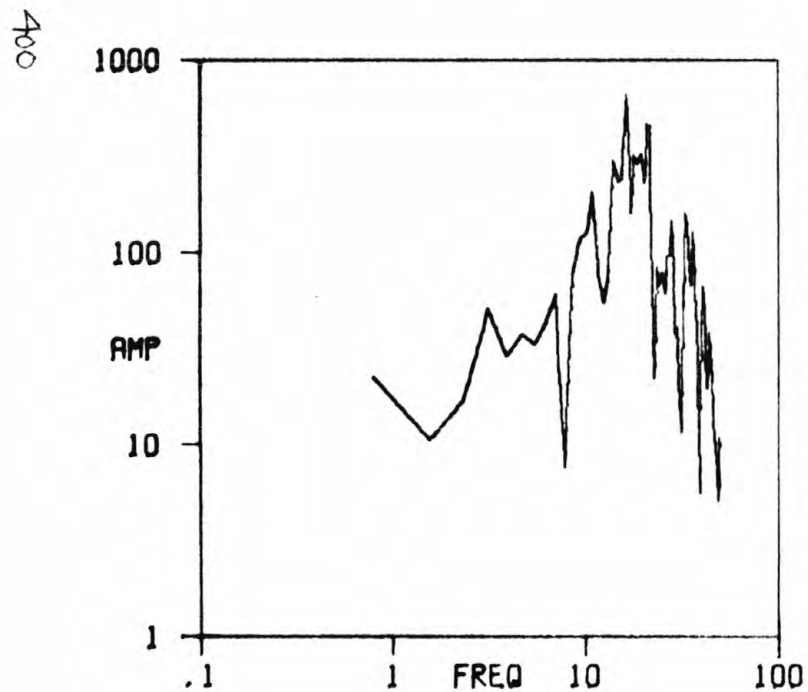
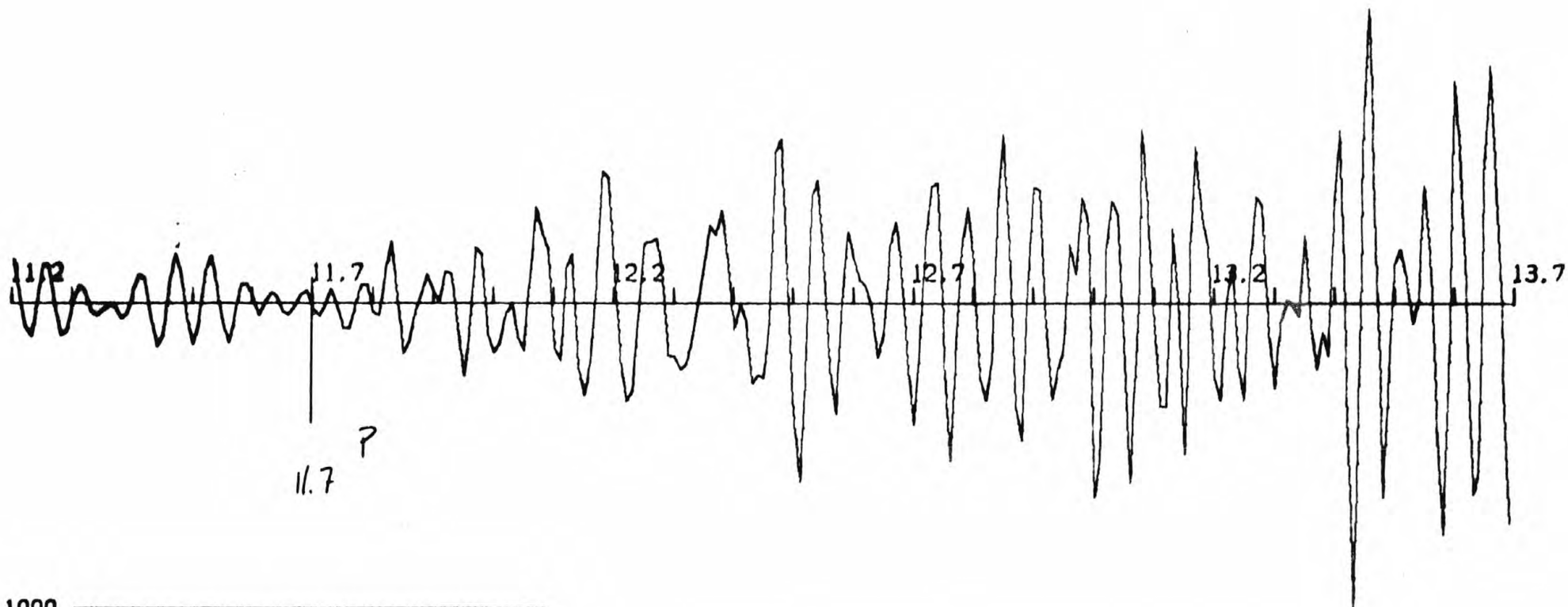
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 3

RECORDER LOCATION 444

DISTANCE FROM SHOT (KM) = 70.216

TSCALE (CM/SEC) = 10.0



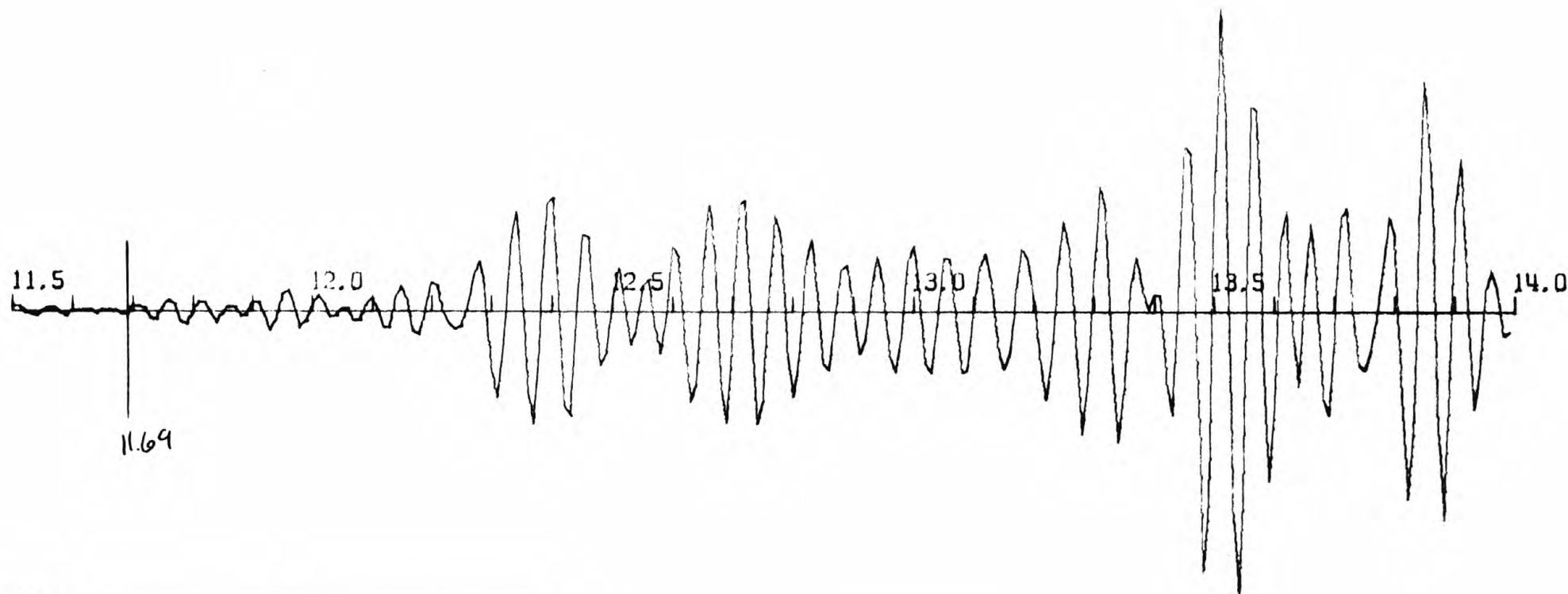
SAUDI REFRACTION PROFILE 15,20 BP

SHOT POINT 3

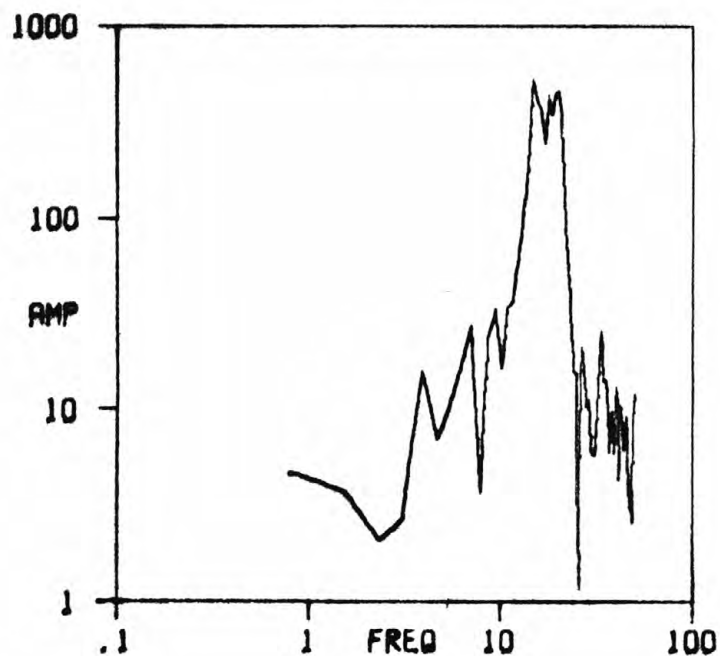
RECORDER LOCATION 445

DISTANCE FROM SHOT (KM) = -72.619

TSCALE (CM/SEC) = 10.0



401



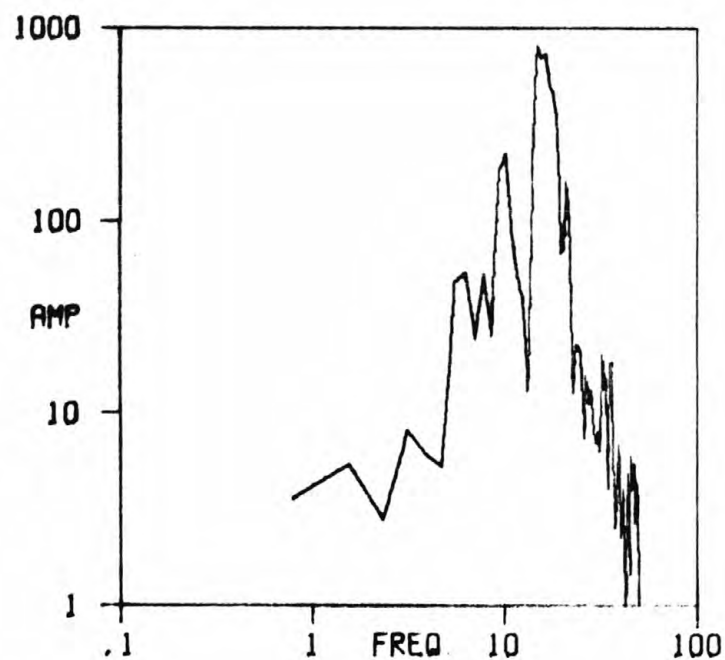
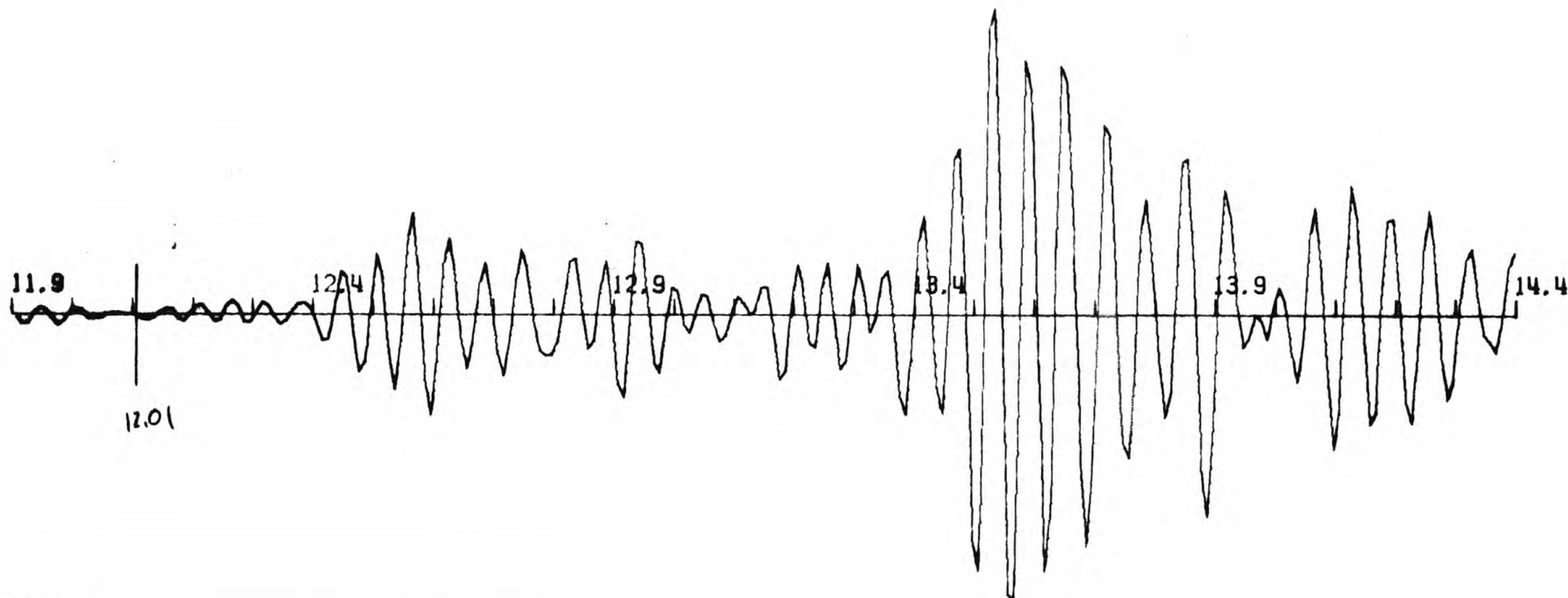
SAUDI REFRACTION PROFILE 15,20 BP

SHOT POINT 3

RECORDER LOCATION 446

DISTANCE FROM SHOT (KM) = -74.654

TSCALE (CM/SEC) = 10.0



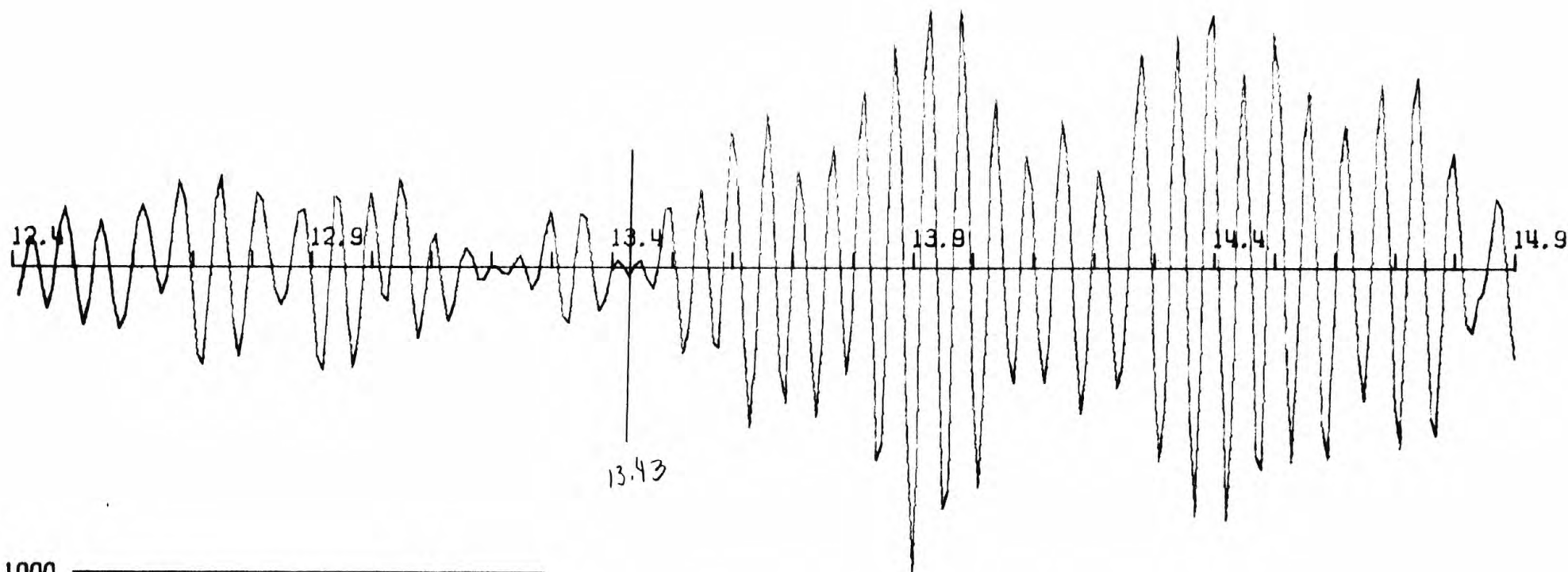
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 3

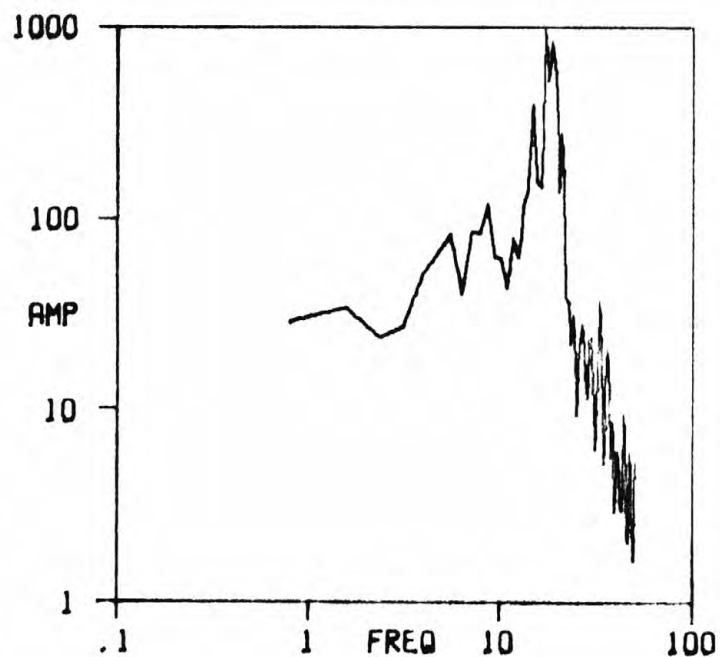
RECORDER LOCATION 447

DISTANCE FROM SHOT (KM) = 77.149

TSCALE (CM/SEC) = 10.0



403



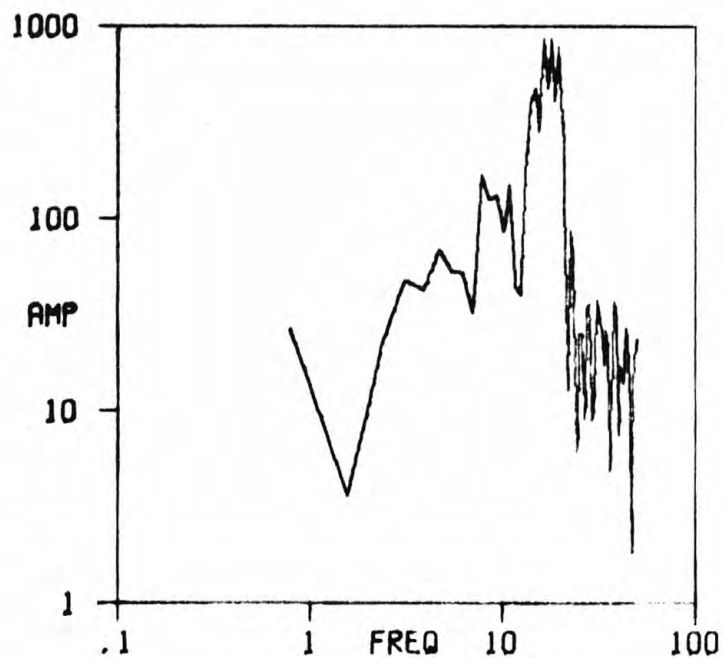
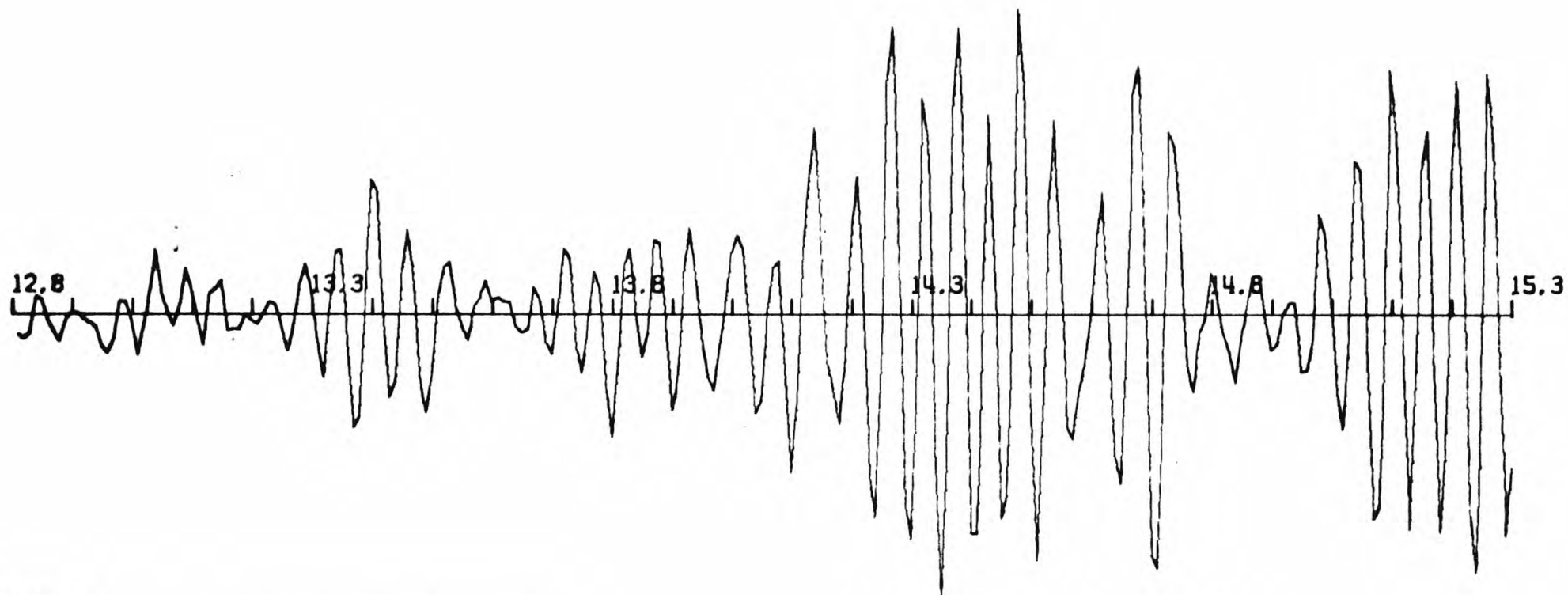
SAUDI REFRACTION PROFILE 15,20 BP

SHOT POINT 3

RECORDER LOCATION 448

DISTANCE FROM SHOT (KM) = -80.398

TSCALE (CM/SEC) = 10.0



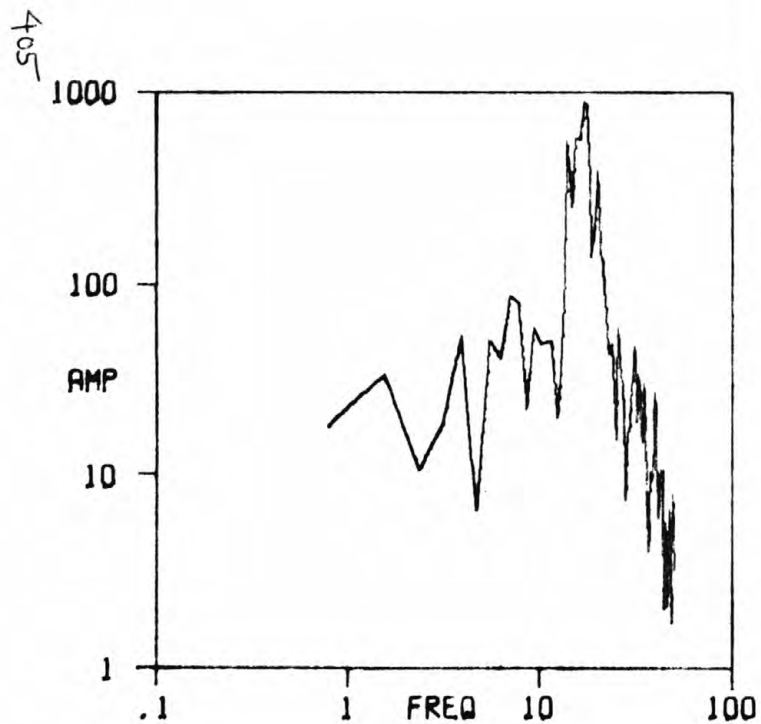
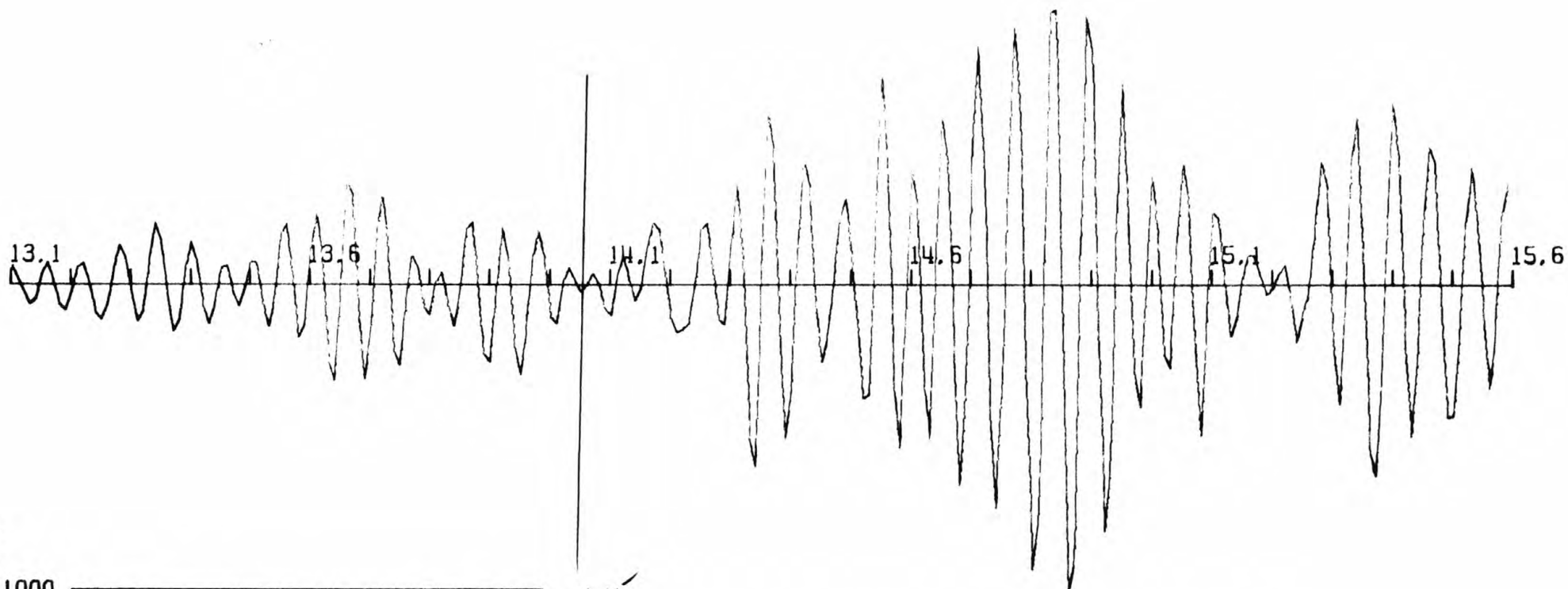
SAUDI REFRACTION PROFILE 15,20 BP

SHOT POINT 3

RECORDER LOCATION 449

DISTANCE FROM SHOT (KM) = -82.739

TSCALE (CM/SEC) = 10.0



14.05

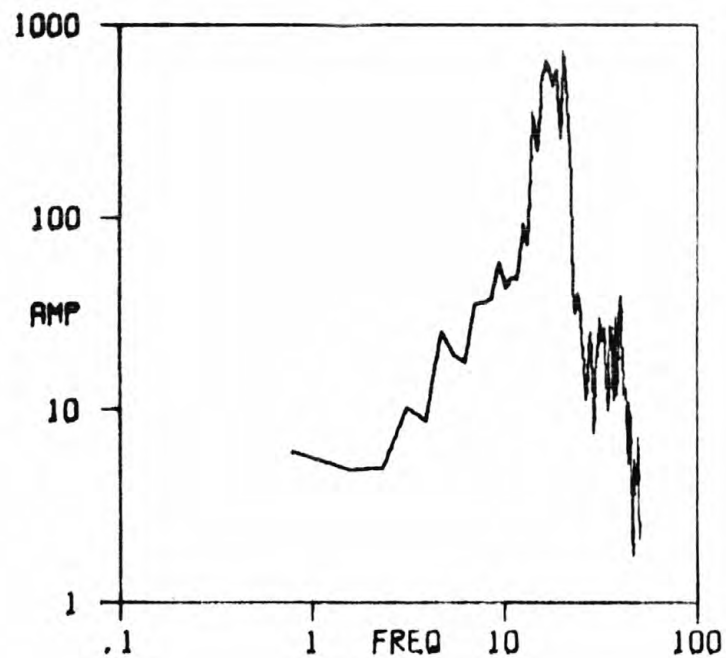
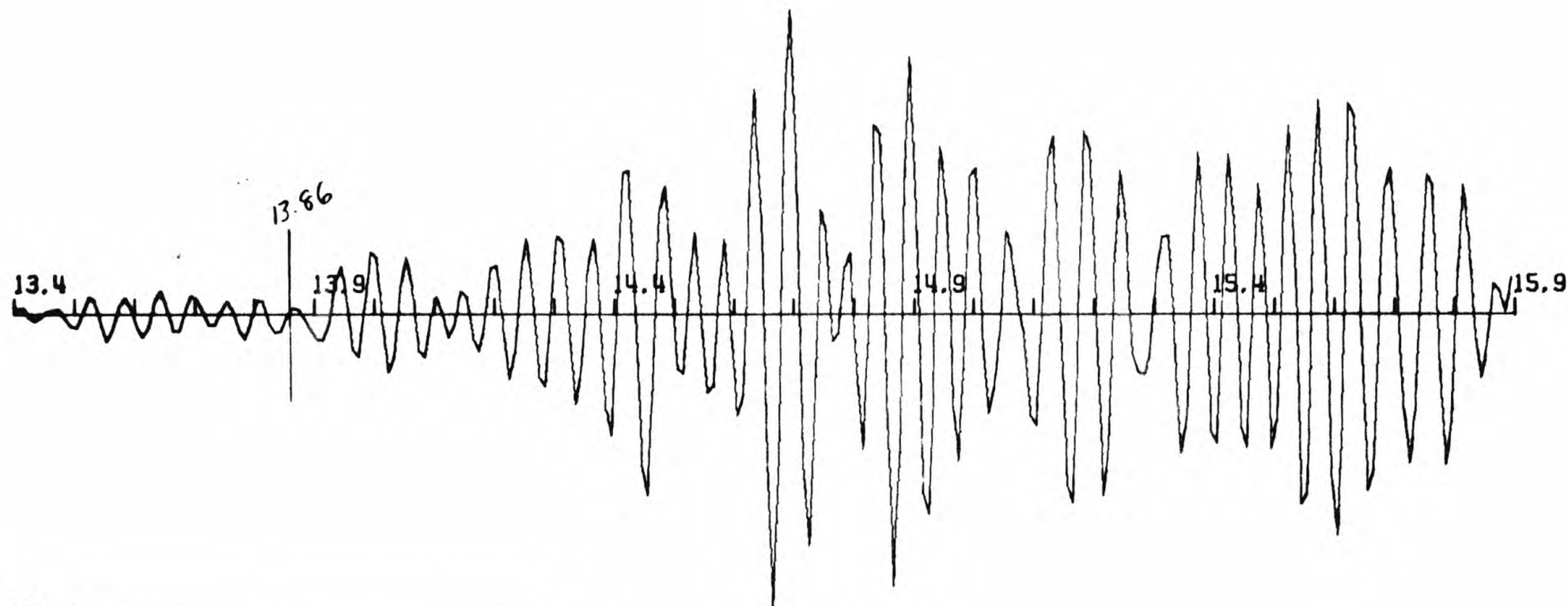
SAUDI REFRACTION PROFILE 15,20 BP

SHOT POINT 3

RECORDER LOCATION 450

DISTANCE FROM SHOT (KM) = -84.321

TSCALE (CM/SEC) = 10.0



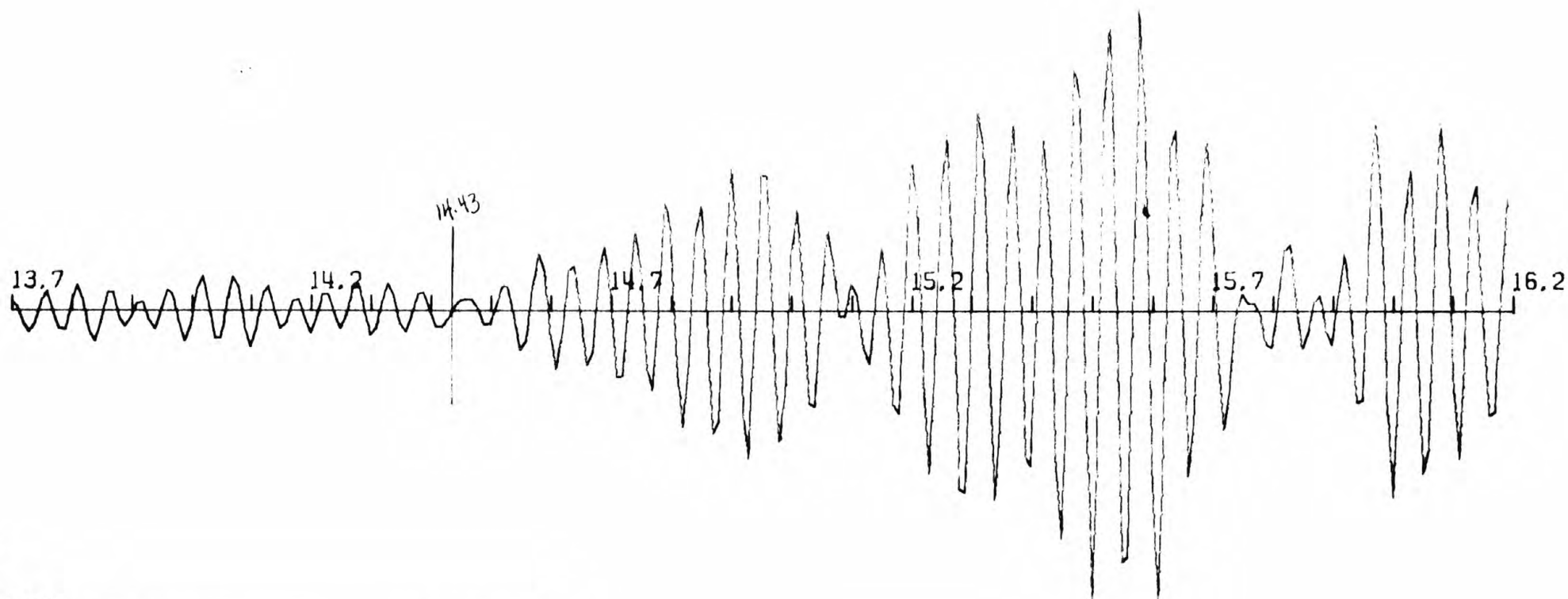
SAUDI REFRACTION PROFILE 15,20 BP

SHOT POINT 3

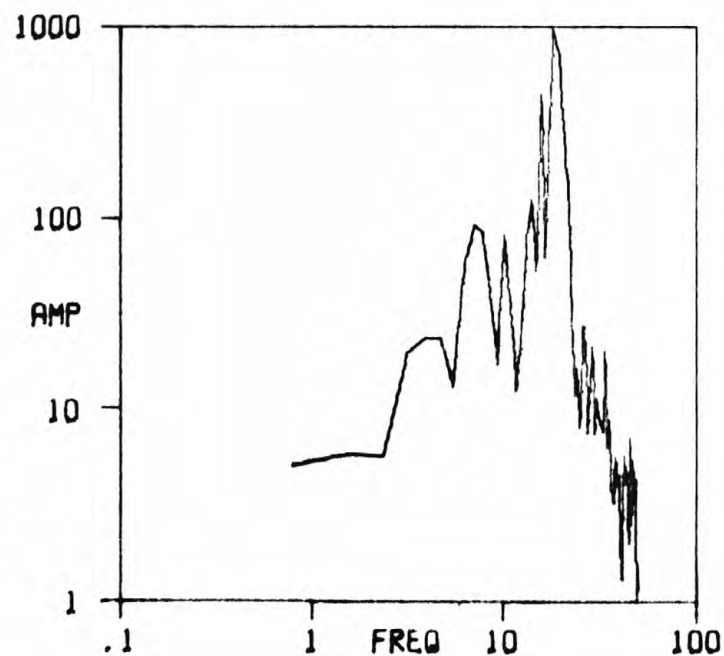
RECORDER LOCATION 451

DISTANCE FROM SHOT (KM) = -85.955

TSCALE (CM/SEC) = 10.0



407



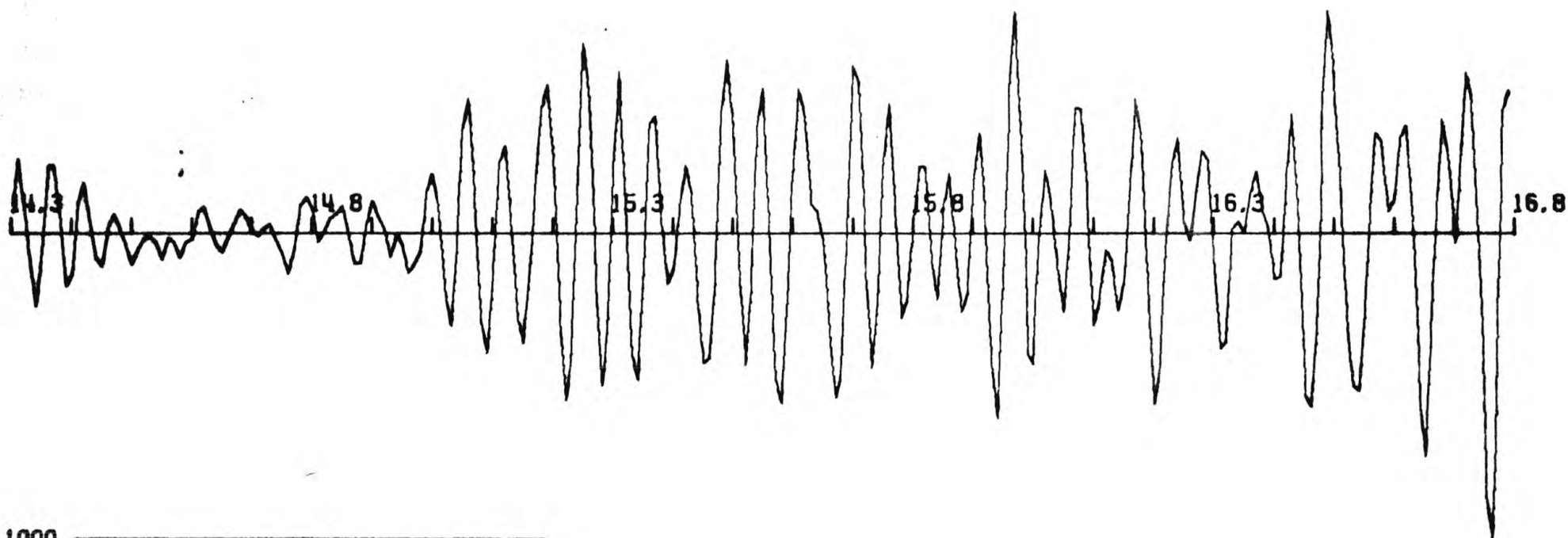
SAUDI REFRACTION PROFILE 15,20 BP

SHOT POINT 3

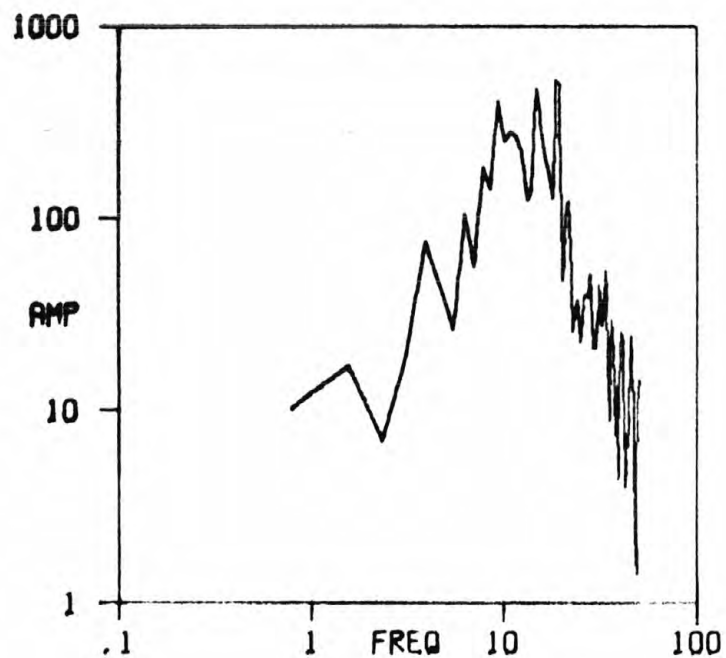
RECORDER LOCATION 452

DISTANCE FROM SHOT (KM) = -87.902

TSCALE (CM/SEC) = 10.0



408



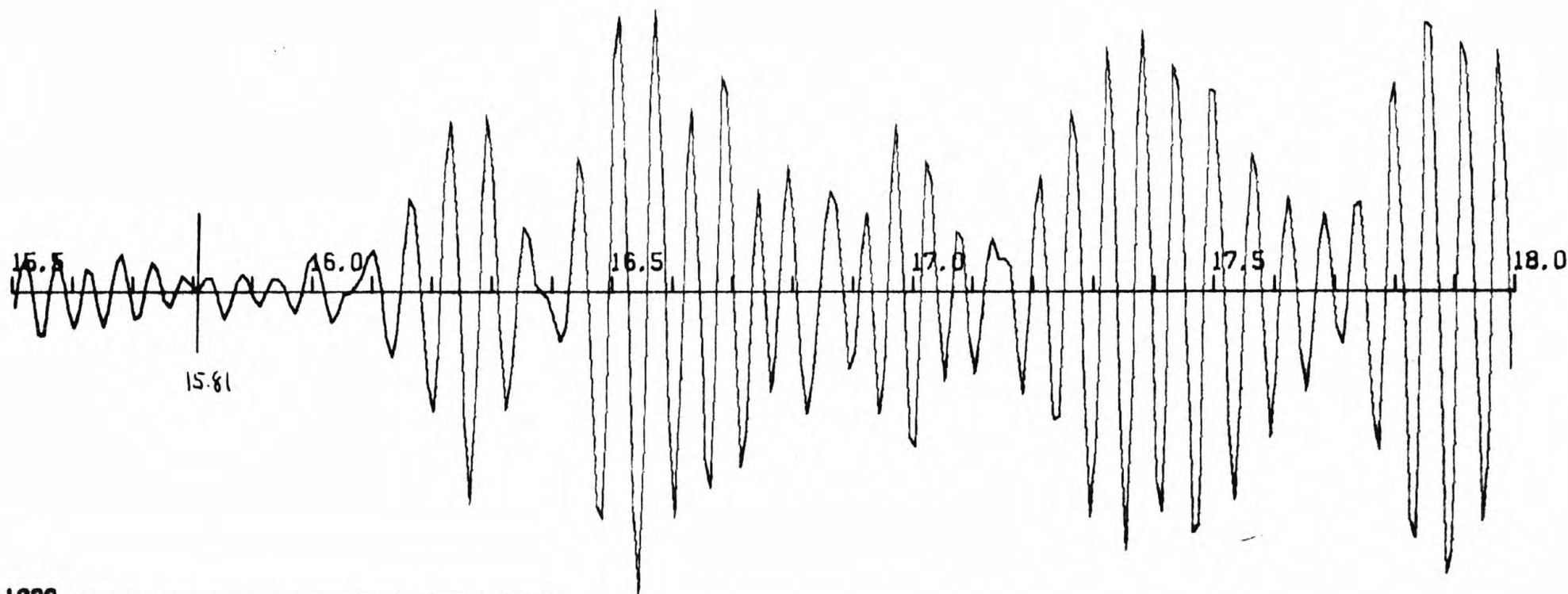
SAUDI REFRACTION PROFILE 15,20 BP

SHOT POINT 3

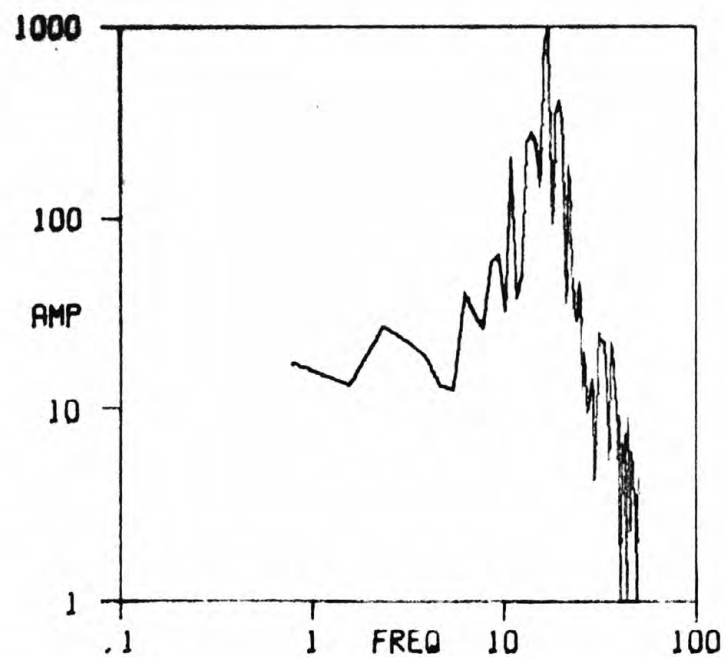
RECORDER LOCATION 454

DISTANCE FROM SHOT (KM) = -91.398

TSCALE (CM/SEC) = 10.0



409



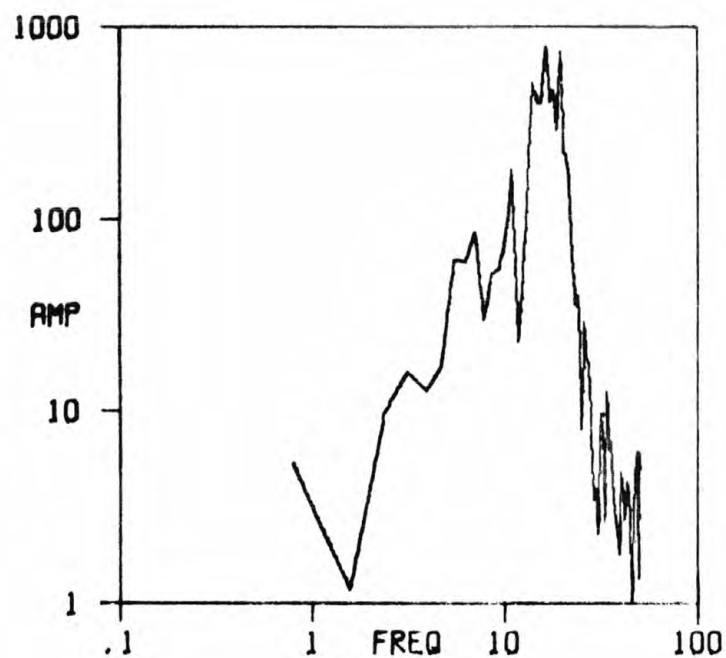
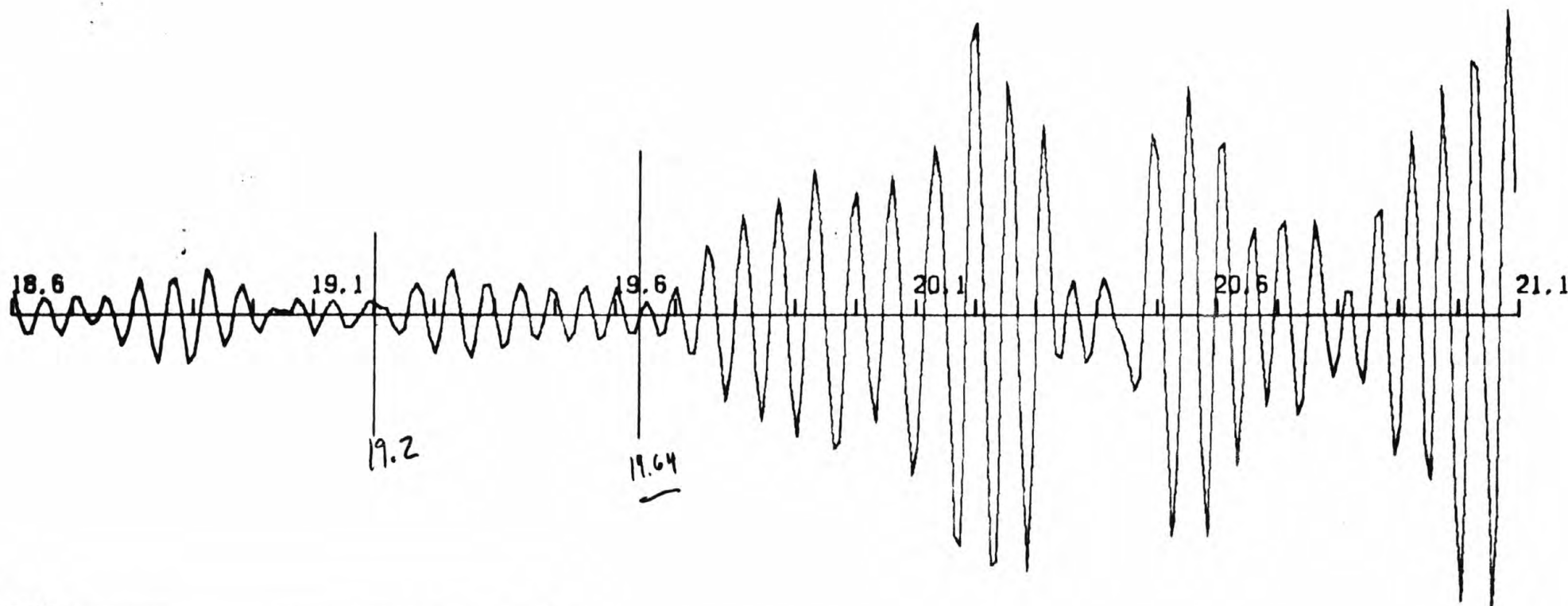
SAUDI REFRACTION PROFILE 15,20 BP

SHOT POINT 3

RECORDER LOCATION 457

DISTANCE FROM SHOT (KM) = -98.970

TSCALE (CM/SEC) = 10.0



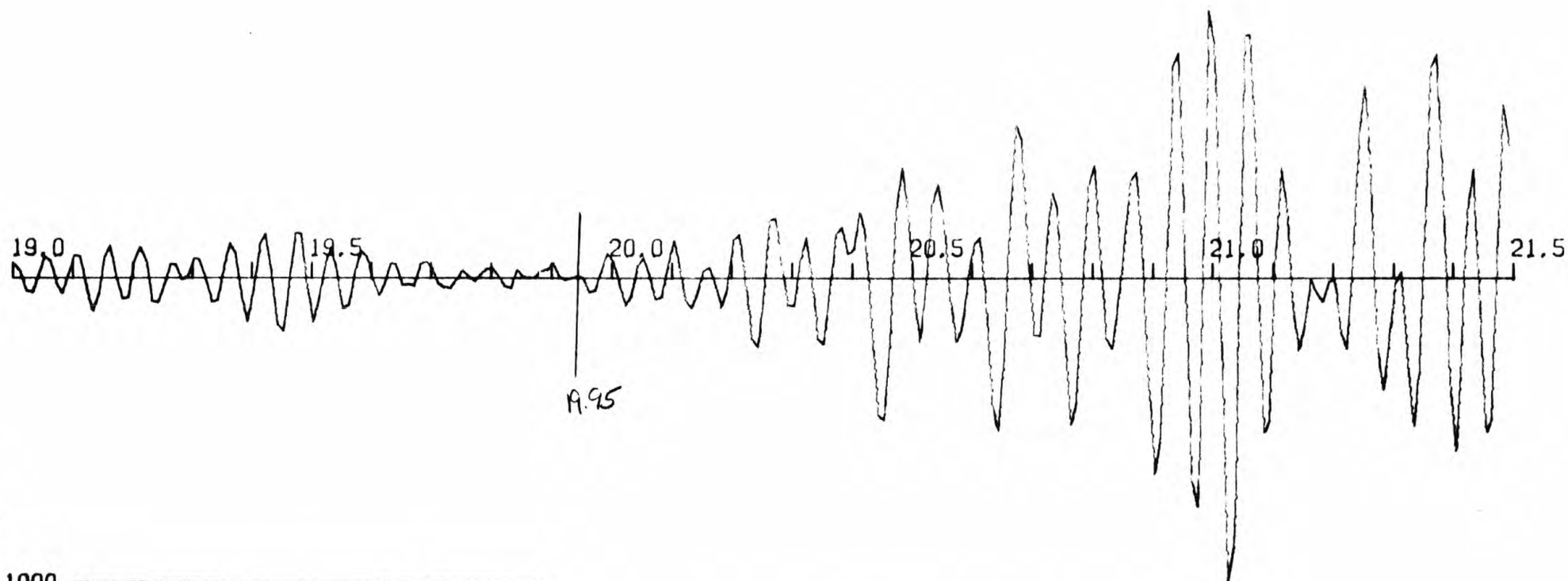
SAUDI REFRACTION PROFILE 15,20 BP

SHOT POINT 3

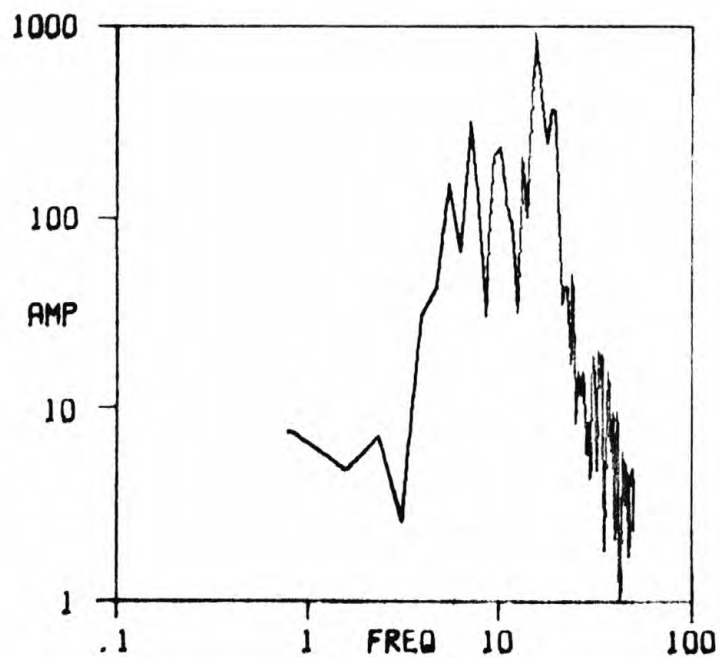
RECORDER LOCATION 469

DISTANCE FROM SHOT (KM) = -123.444

TSCALE (CM/SEC) = 10.0



±



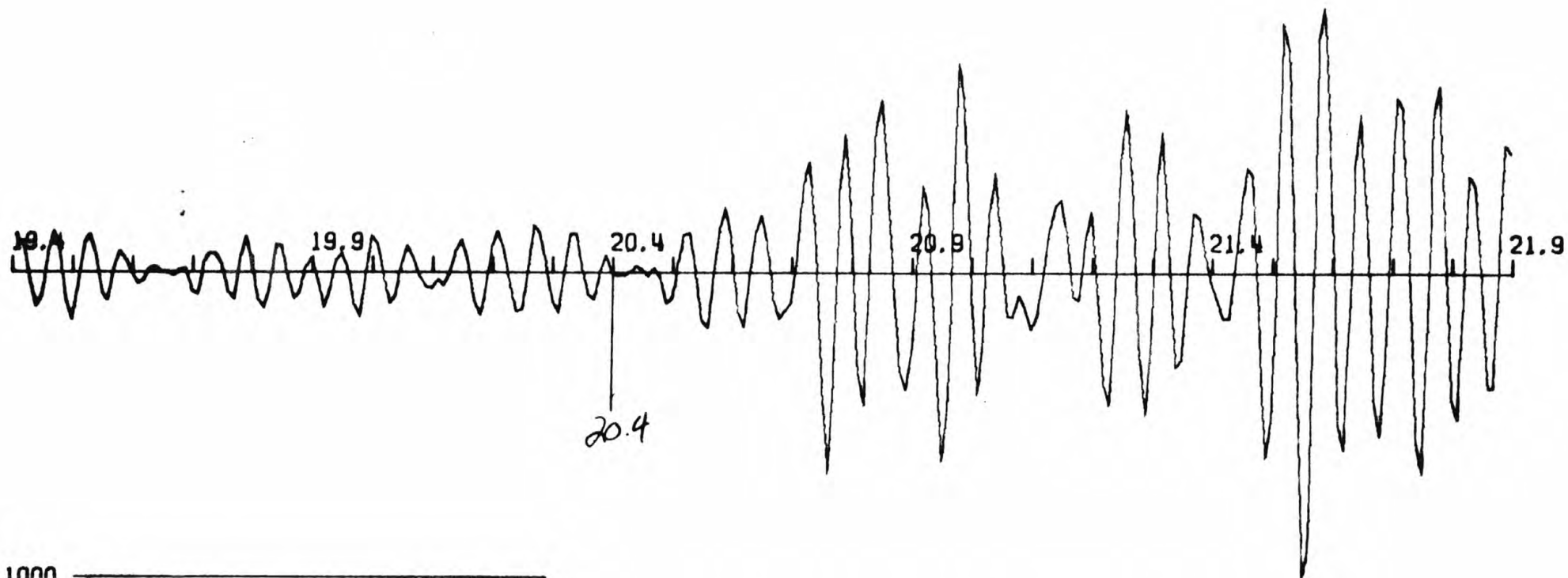
SAUDI REFRACTION PROFILE 15,20 BP

SHOT POINT 3

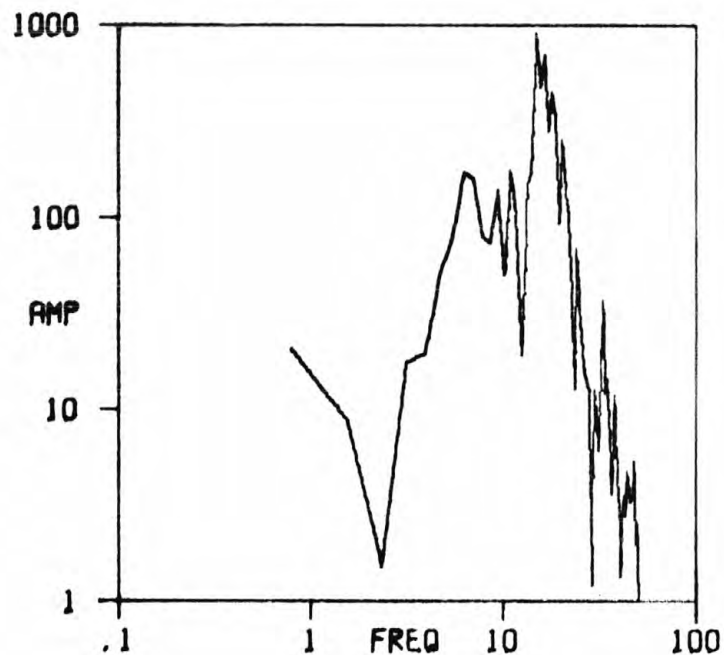
RECORDER LOCATION 470

DISTANCE FROM SHOT (KM) = -125.789

TSCALE (CM/SEC) = 10.0



412



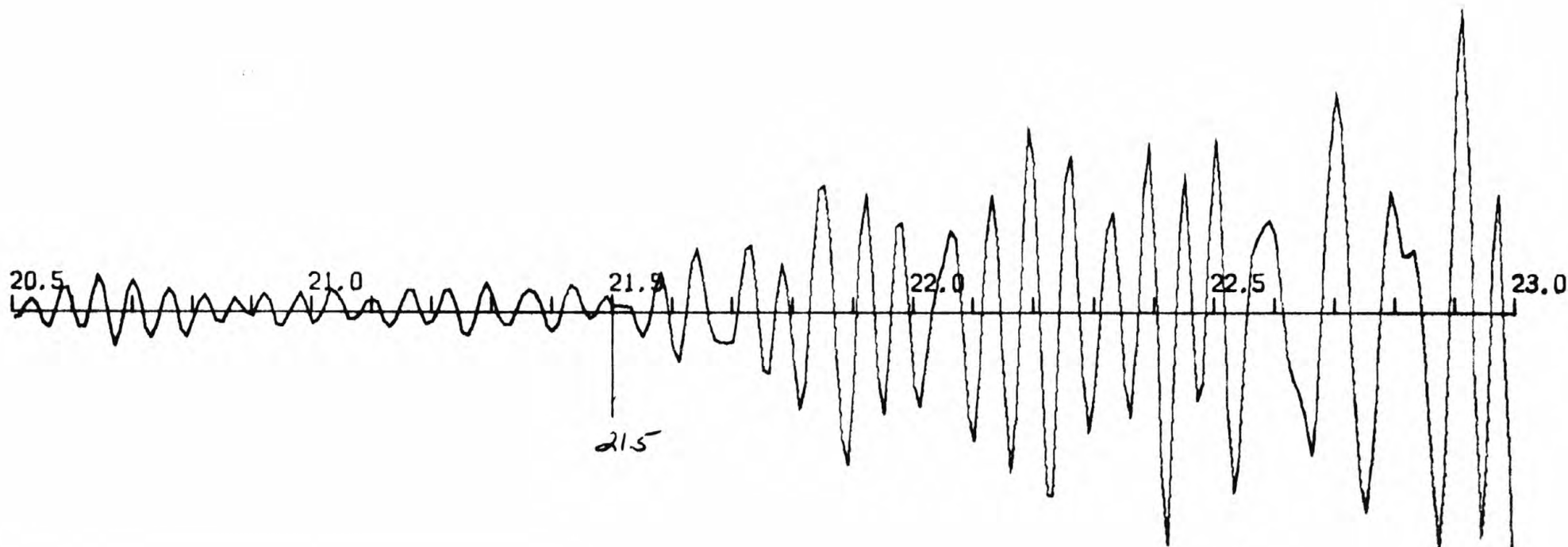
SAUDI REFRACTION PROFILE 15,20 BP

SHOT POINT 3

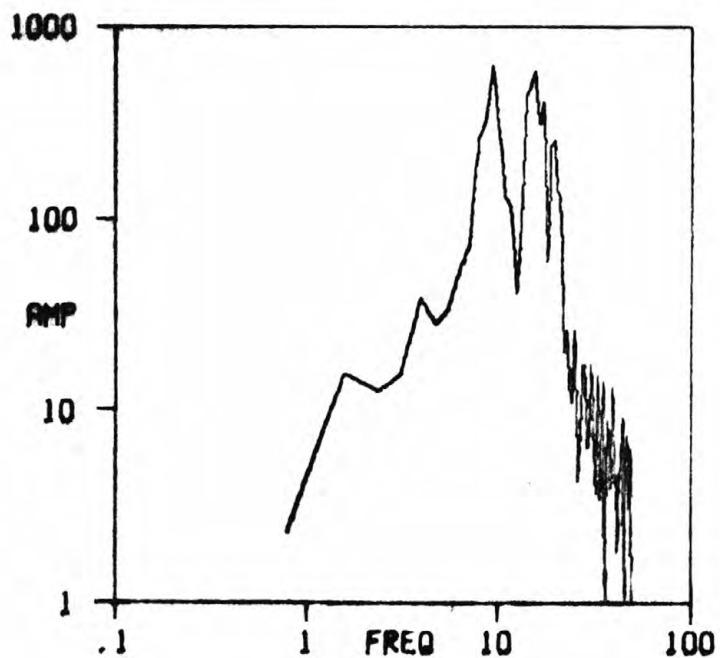
RECORDER LOCATION 471

DISTANCE FROM SHOT (KM) = -127.859

TSCALE (CM/SEC) = 10.0



413



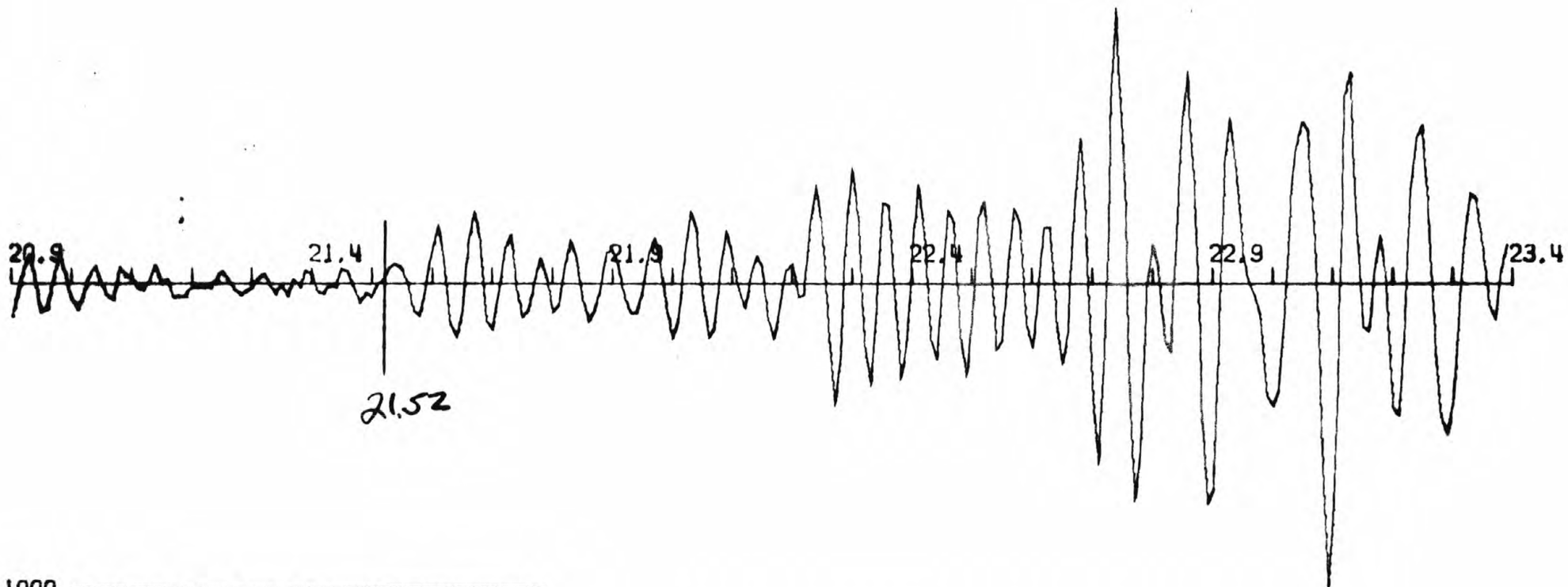
SAUDI REFRACTION PROFILE 15,20 BP

SHOT POINT 3

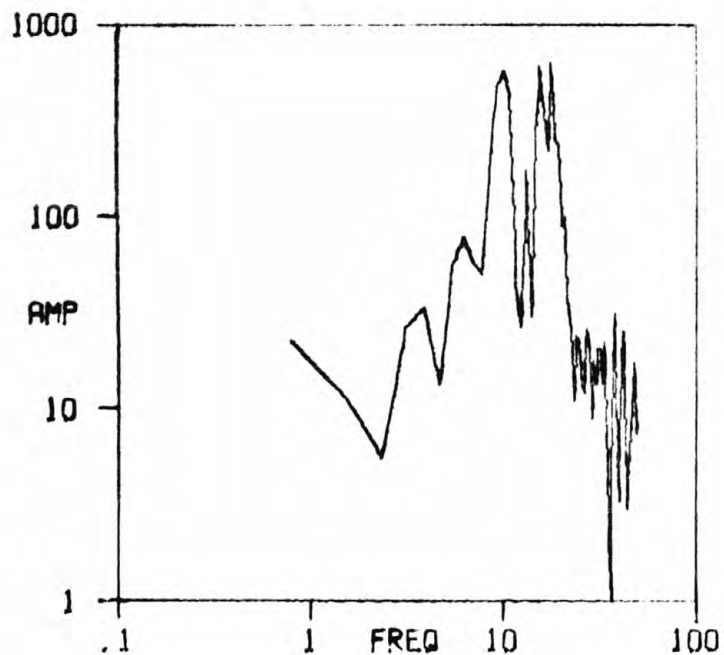
RECORDER LOCATION 474

DISTANCE FROM SHOT (KM) = -134.604

TSCALE (CM/SEC) = 10.0



414



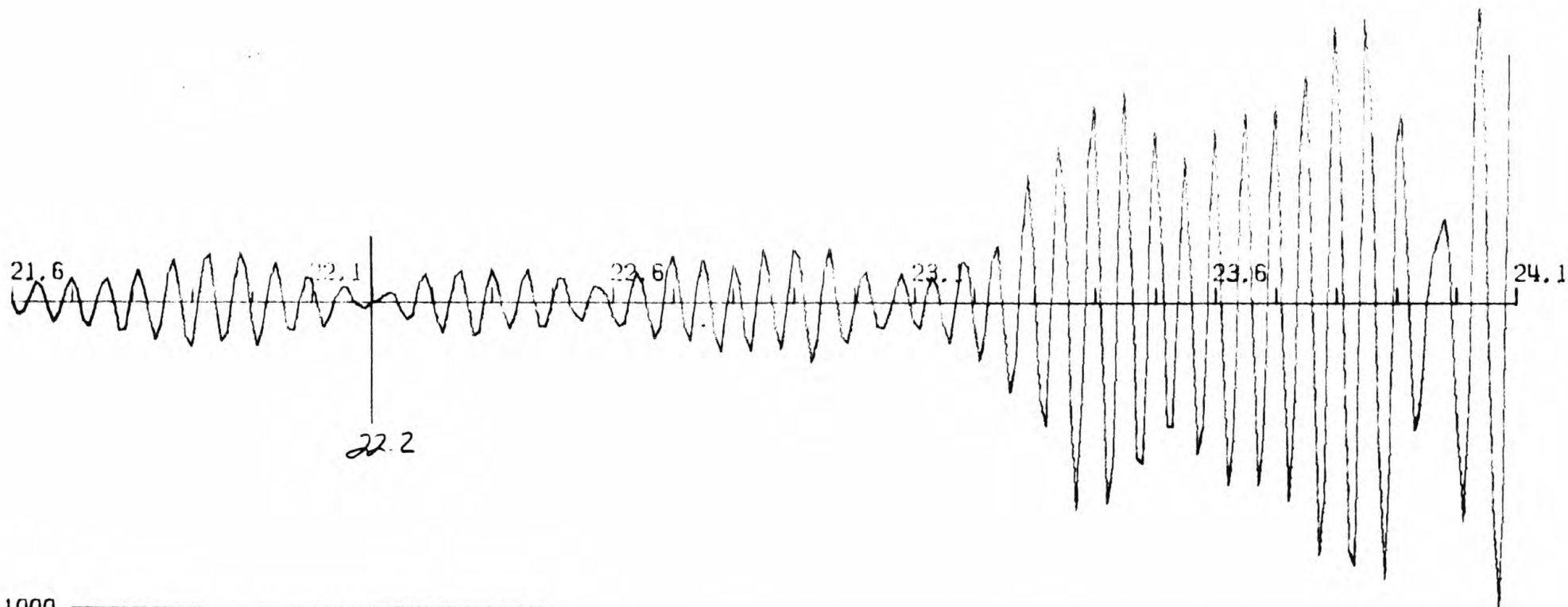
SAUDI REFRACTION PROFILE 15,20 BP

SHOT POINT 3

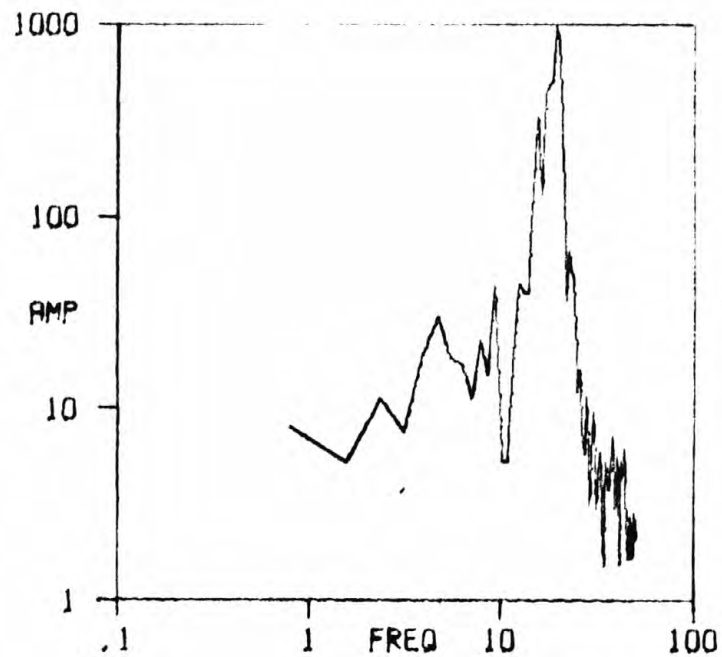
RECORDER LOCATION 475

DISTANCE FROM SHOT (KM) = -137.119

TSCALE (CM/SEC) = 10.0



415



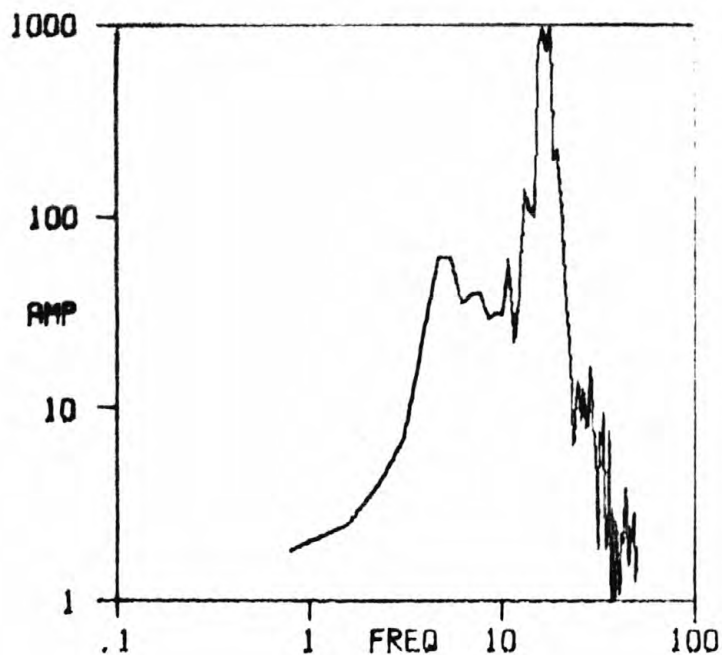
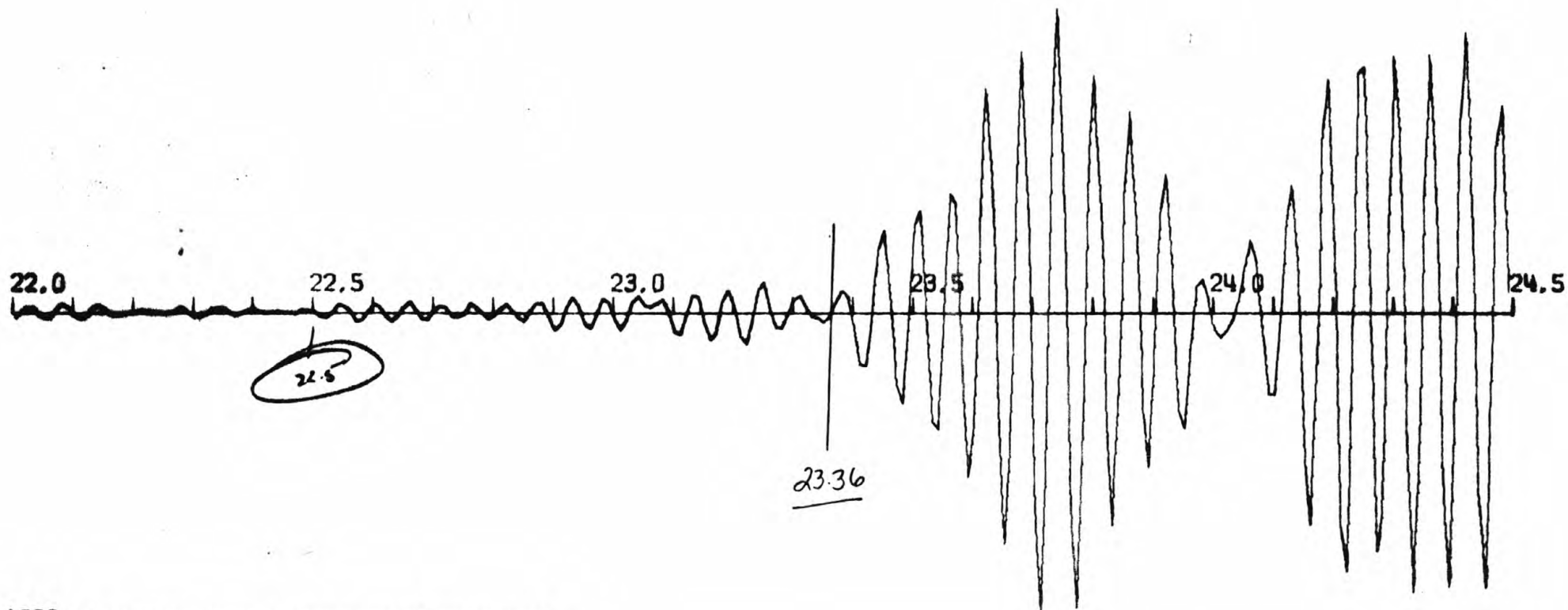
SAUDI REFRACTION PROFILE 15,20 BP

SHOT POINT 3

RECORDER LOCATION 477

DISTANCE FROM SHOT (KM) = -141.188

TSCALE (CM/SEC) = 10.0



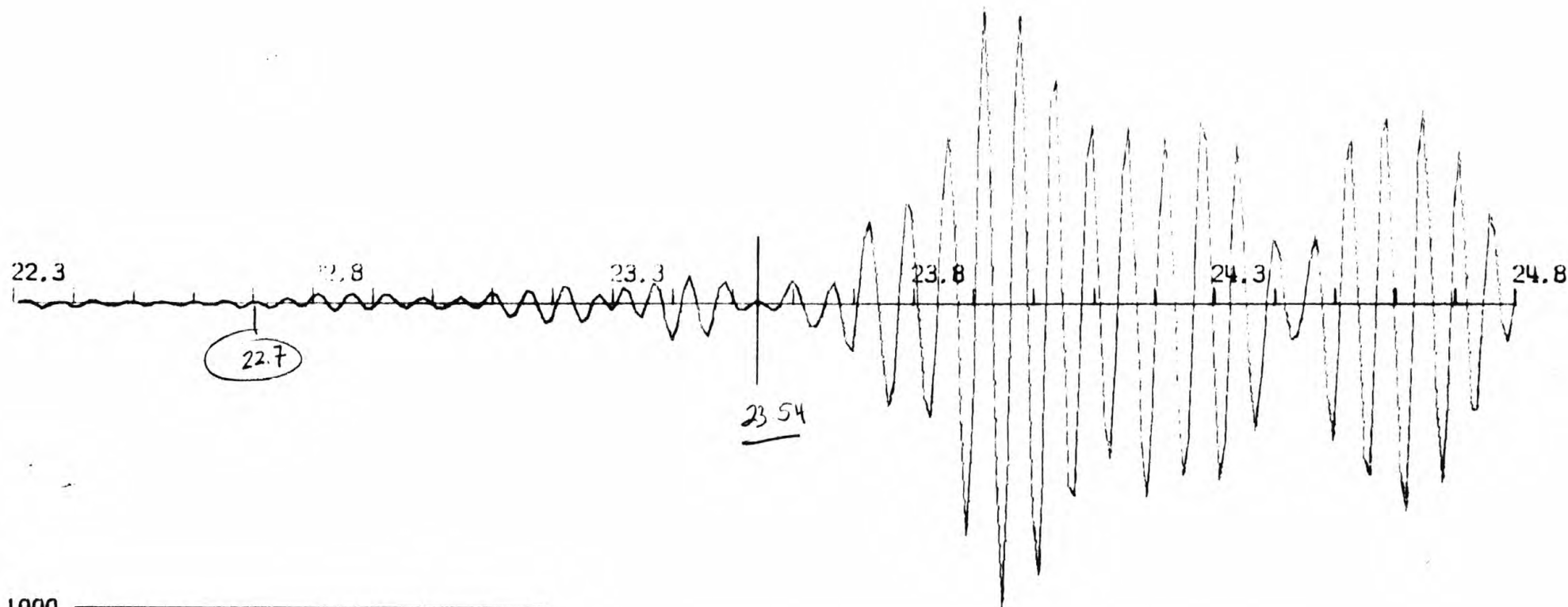
SAUDI REFRACTION PROFILE 15,20 BP

SHOT POINT 3

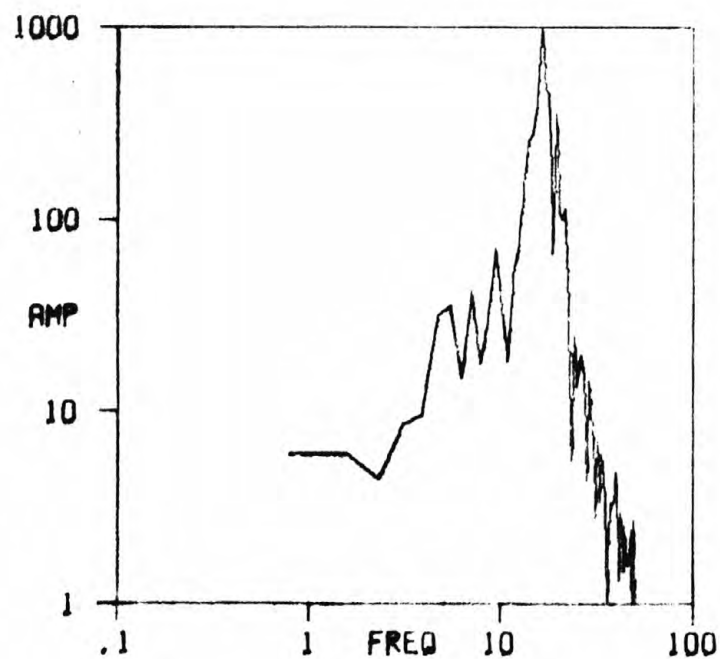
RECORDER LOCATION 478

DISTANCE FROM SHOT (KM) $\approx$ -143.608

TSCALE (CM/SEC) $\approx$ 10.0



417



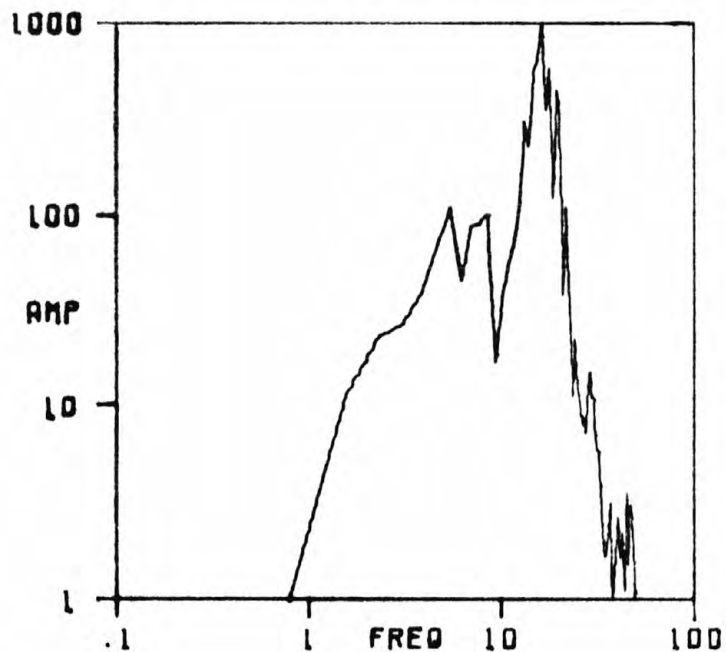
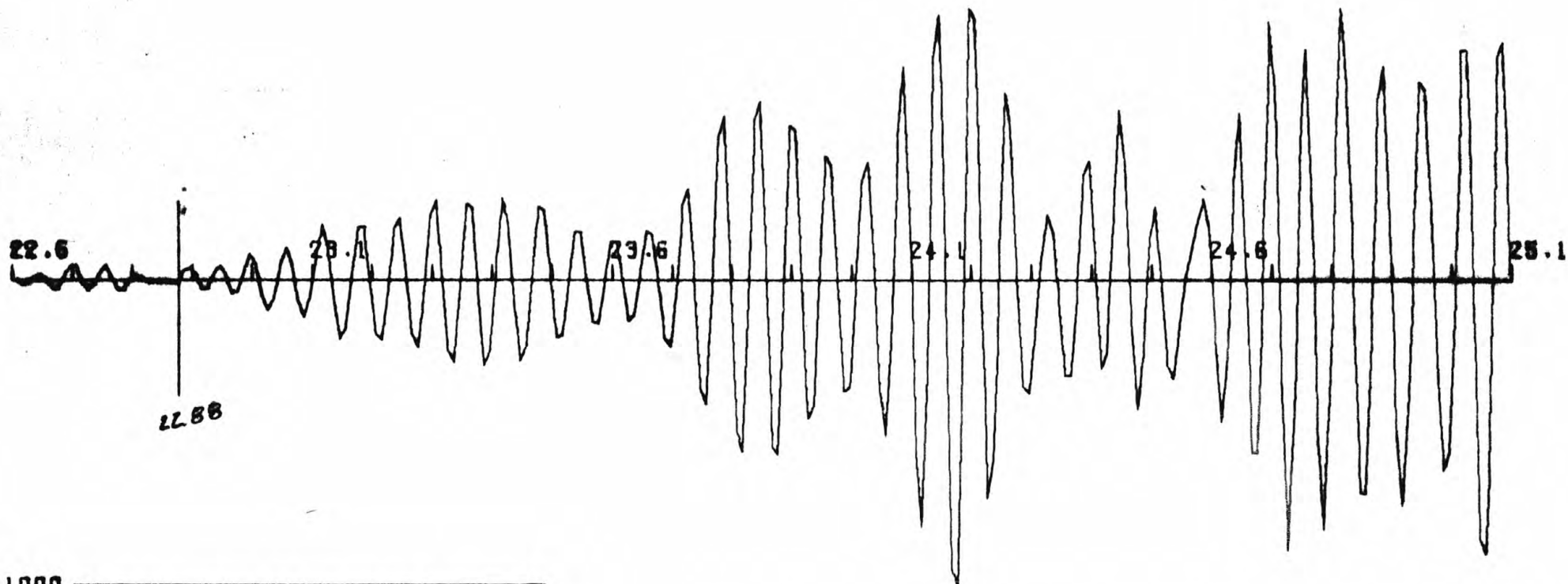
SAUDI REFRACTION PROFILE 15,20 BP

SHOT POINT 3

RECORDER LOCATION 479

DISTANCE FROM SHOT (KM) = -145.377

TSCALE (CM/SEC) = 10.0



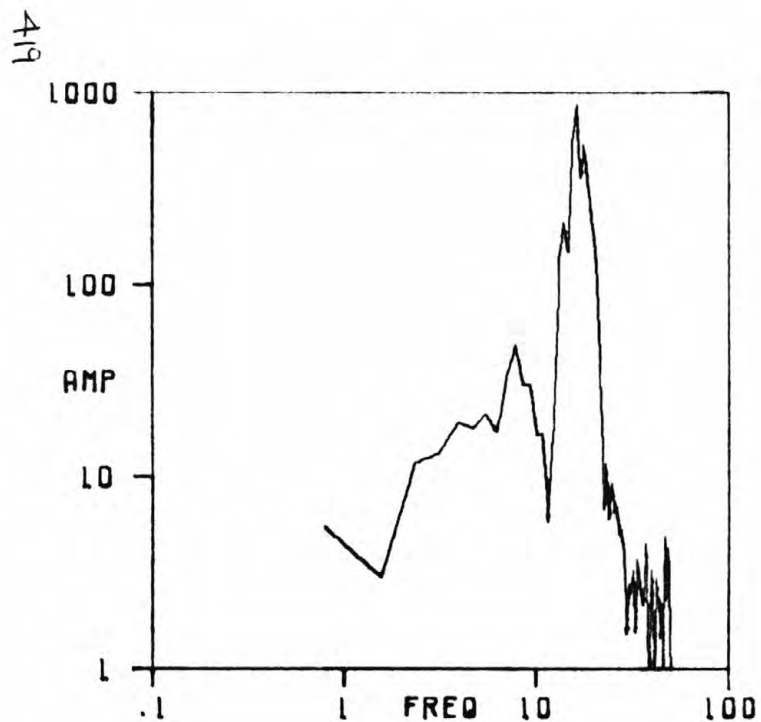
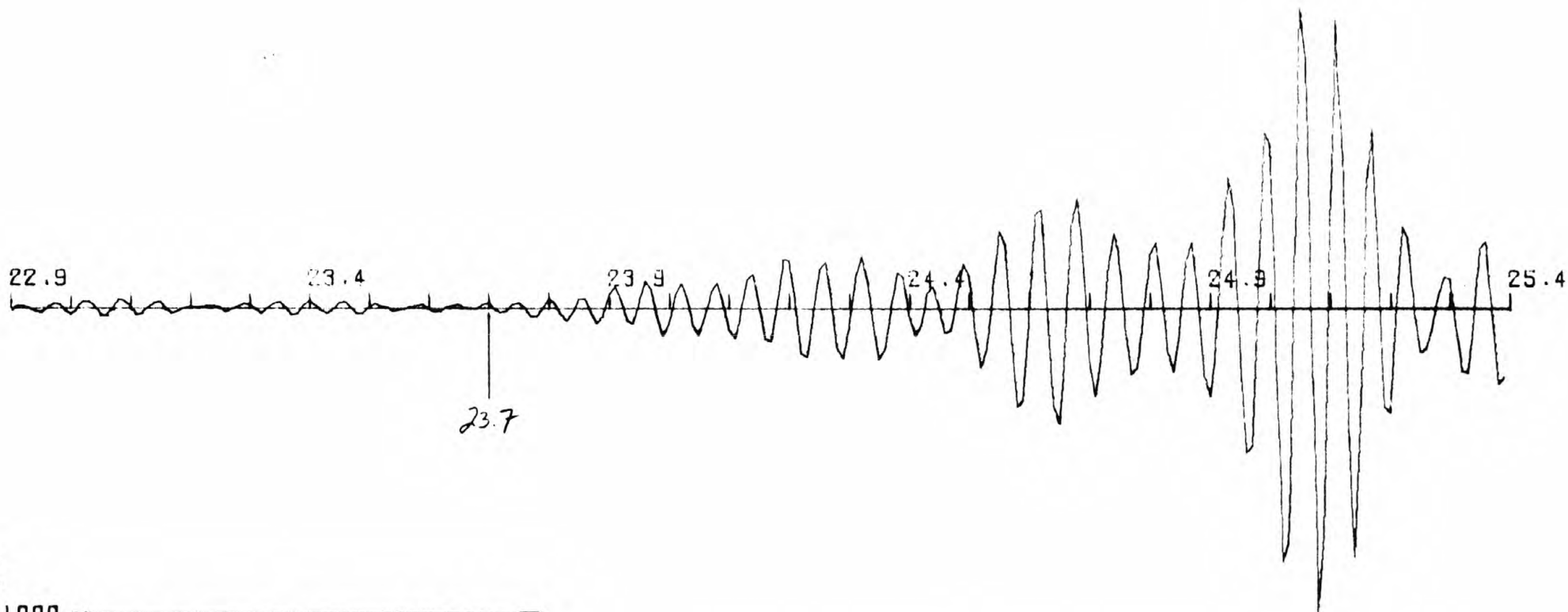
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 3

RECORDER LOCATION 480

DISTANCE FROM SHOT (KM) = -147.952

TSCALE (CM/SEC) = 10.0



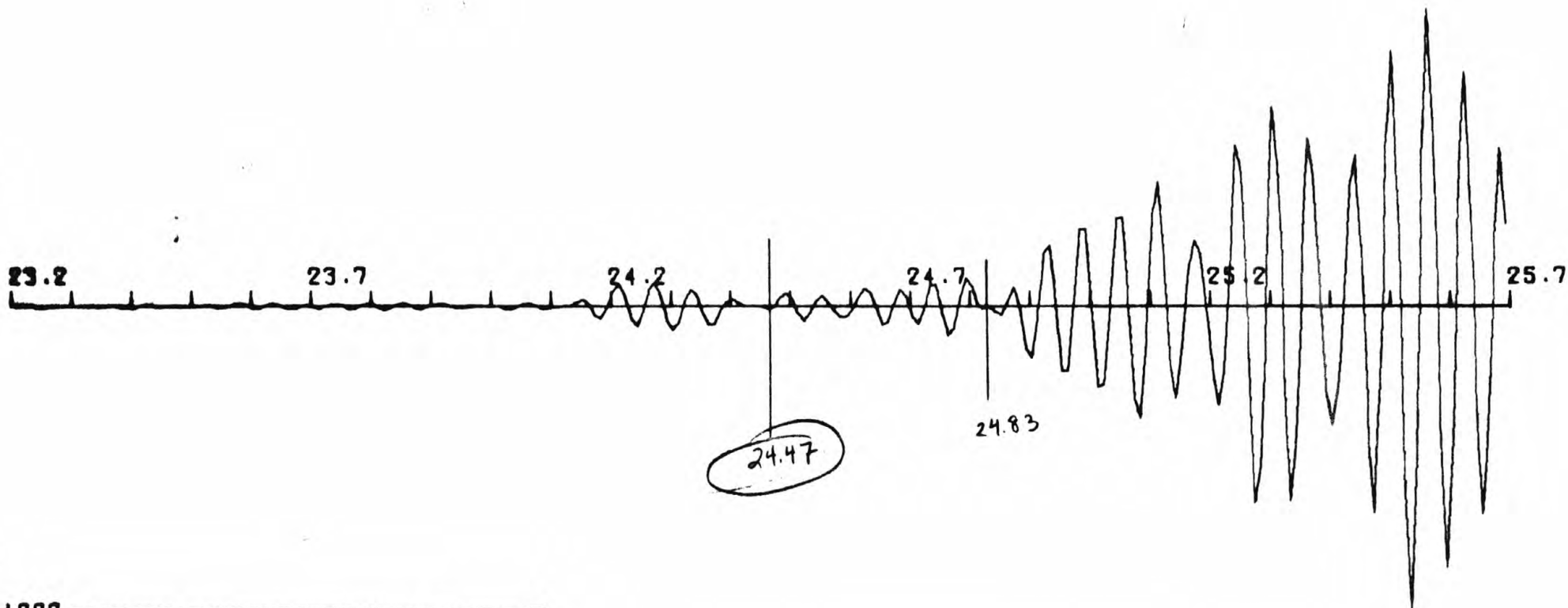
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 3

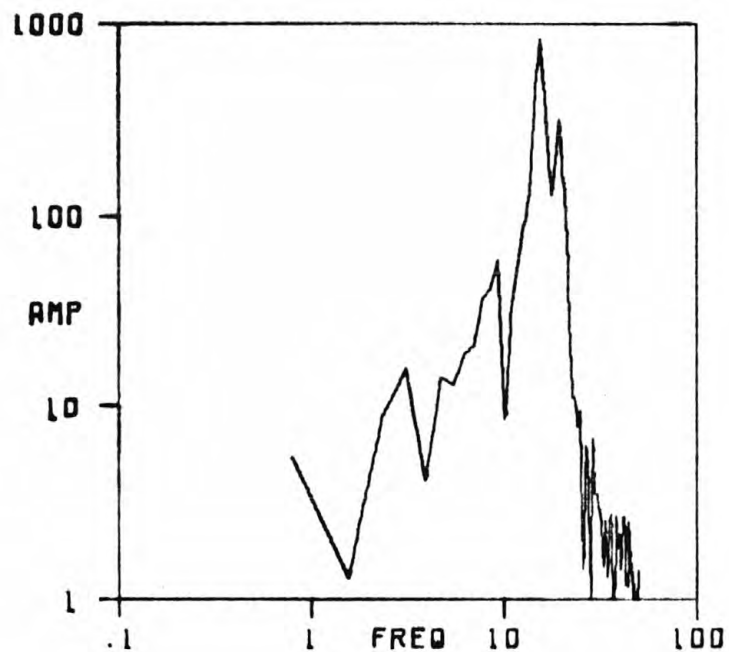
RECORDER LOCATION 481

DISTANCE FROM SHOT (KM) = -149.229

TSCALE (CM/SEC) = 10.0



420



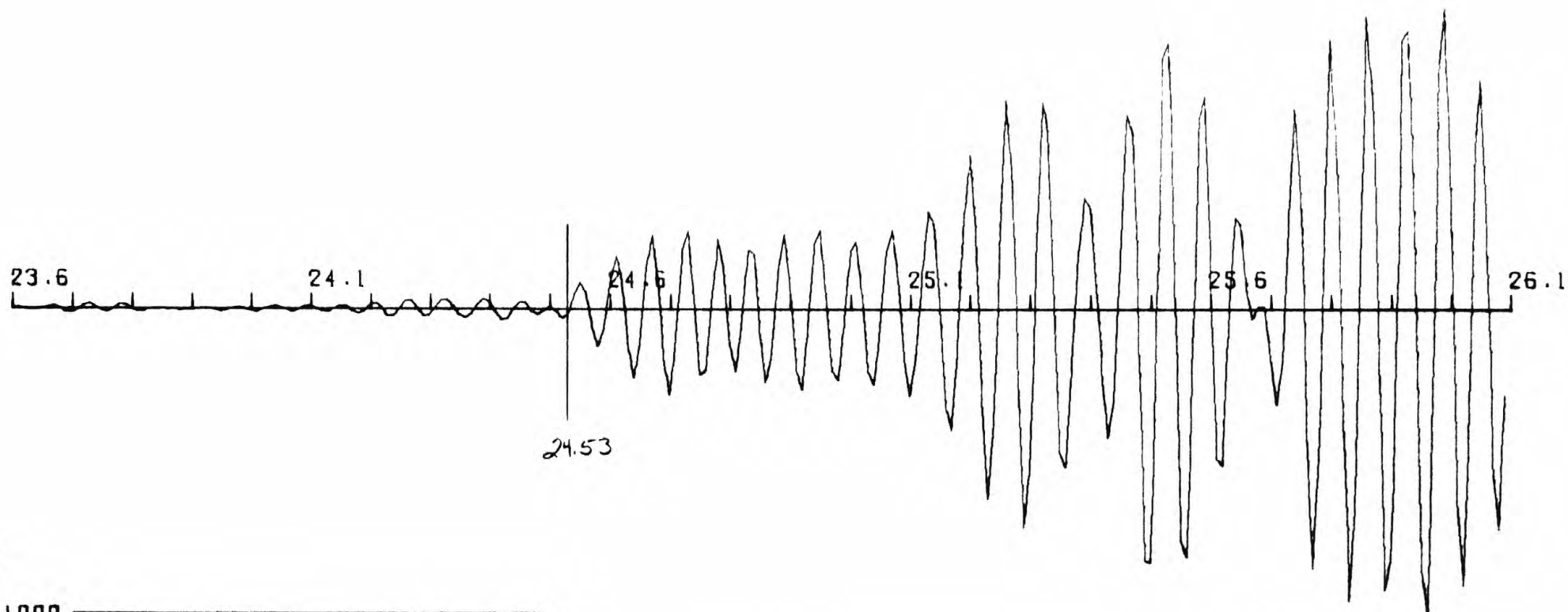
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 3

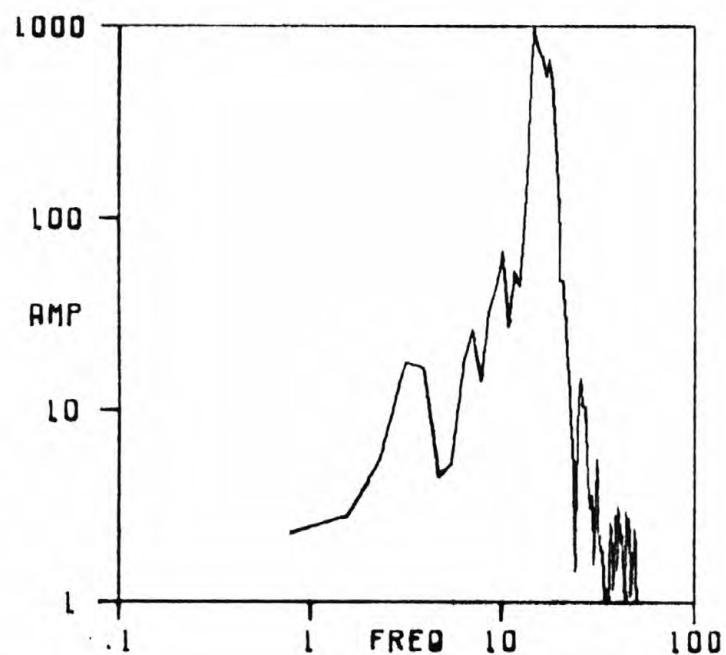
RECORDER LOCATION 482

DISTANCE FROM SHOT (KM) = -151.052

TSCALE (CM/SEC) = 10.0



421



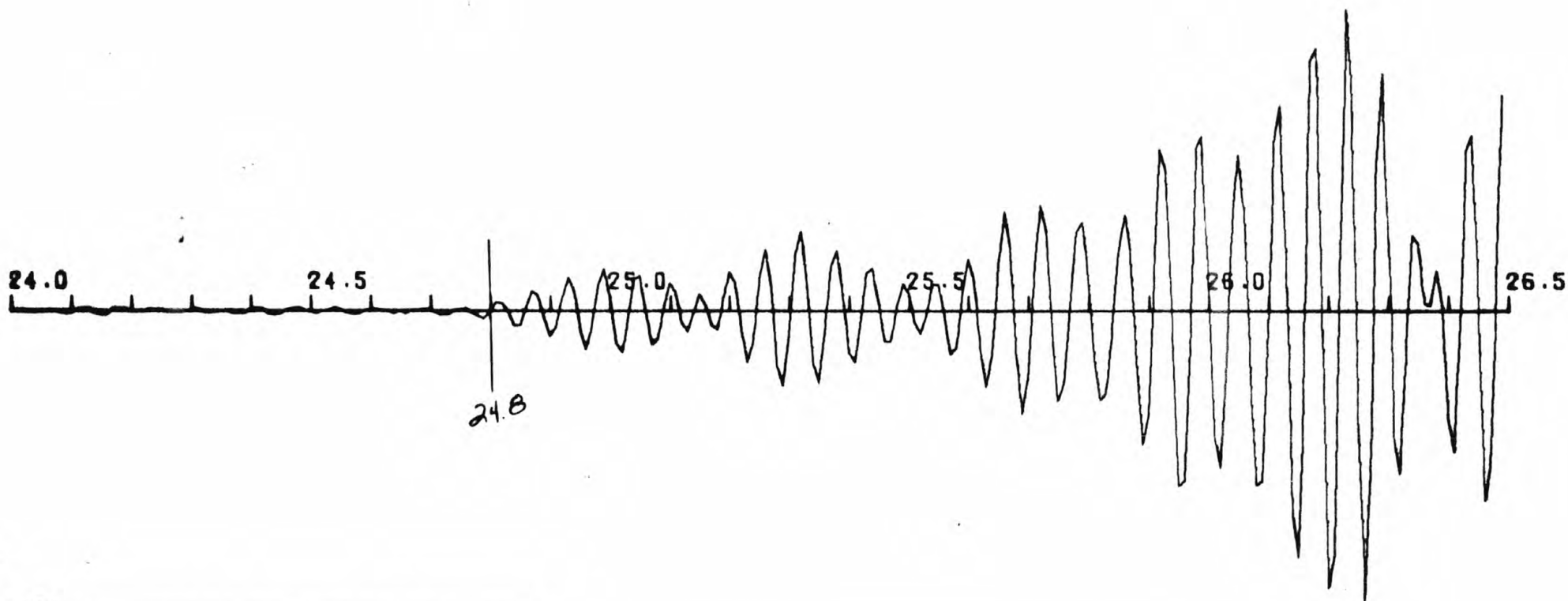
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 3

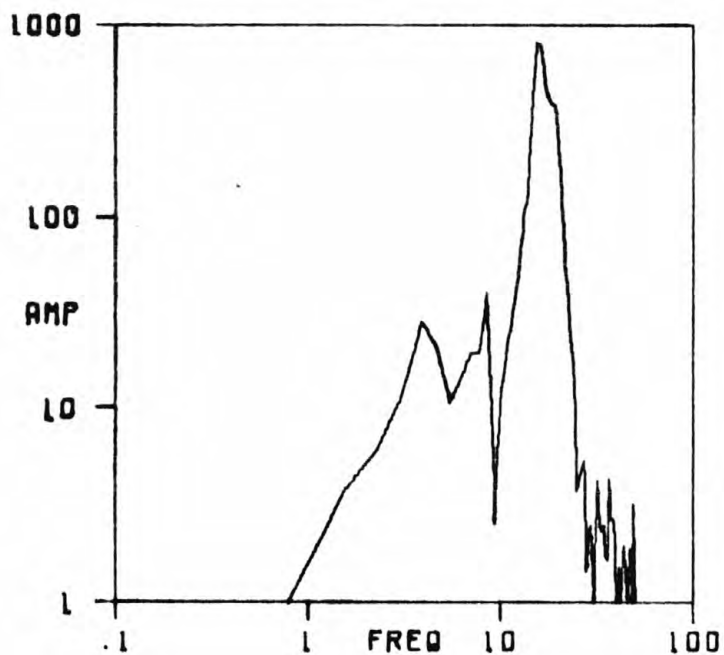
RECORDER LOCATION 483

DISTANCE FROM SHOT (KM) = -153.185

TSCALE (CM/SEC) = 10.0



422



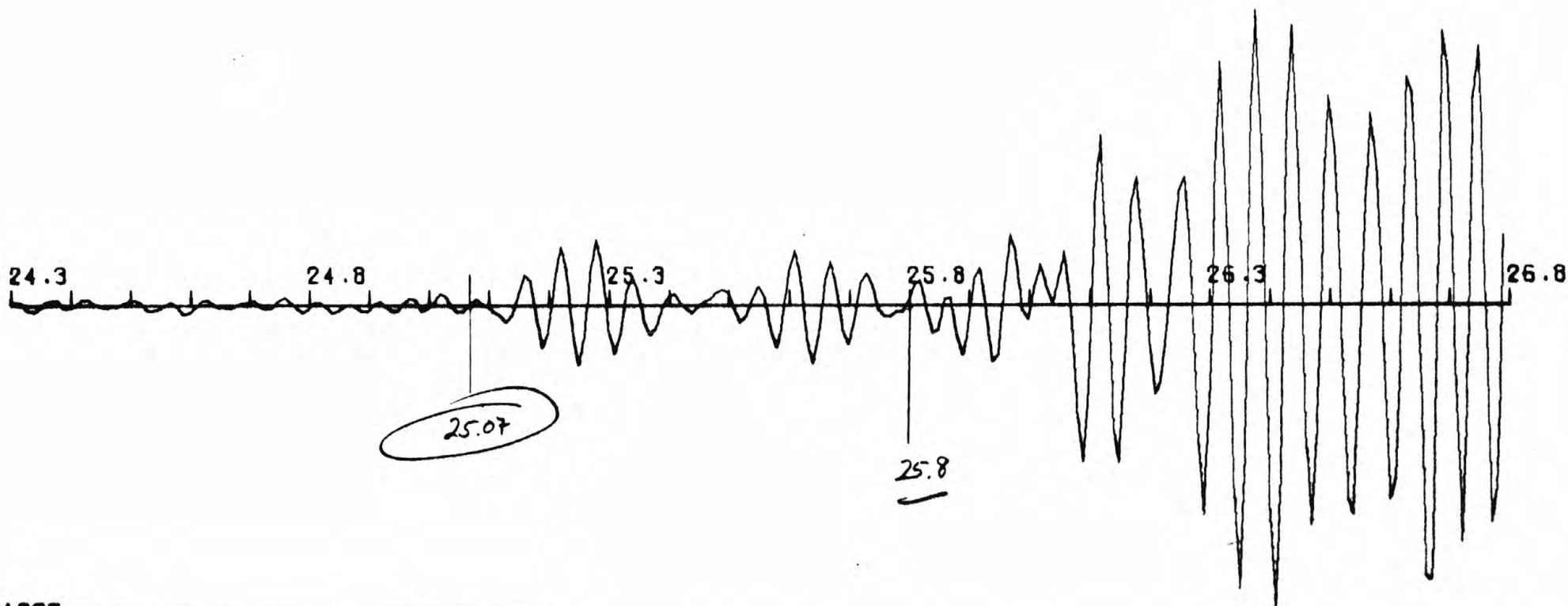
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 3

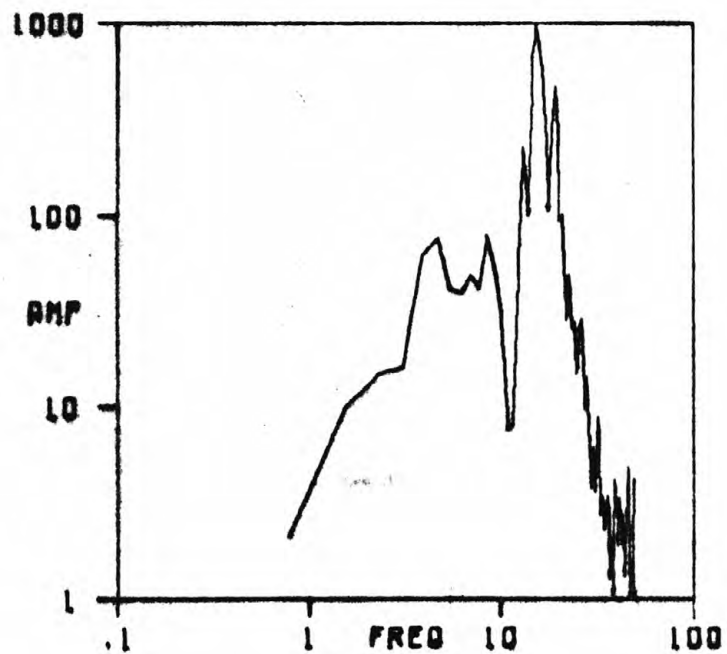
RECORDER LOCATION 484

DISTANCE FROM SHOT (KM) = -155.647

TSCALE (CM/SEC) = 10.0



423



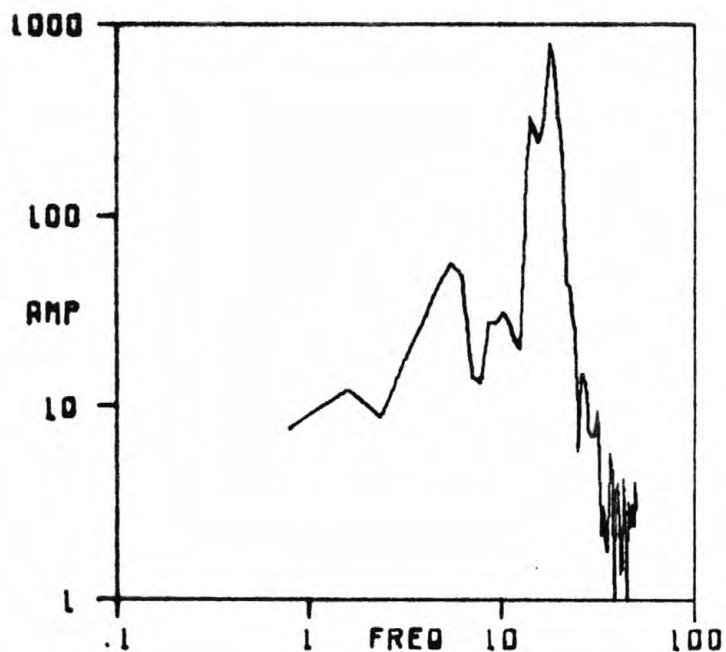
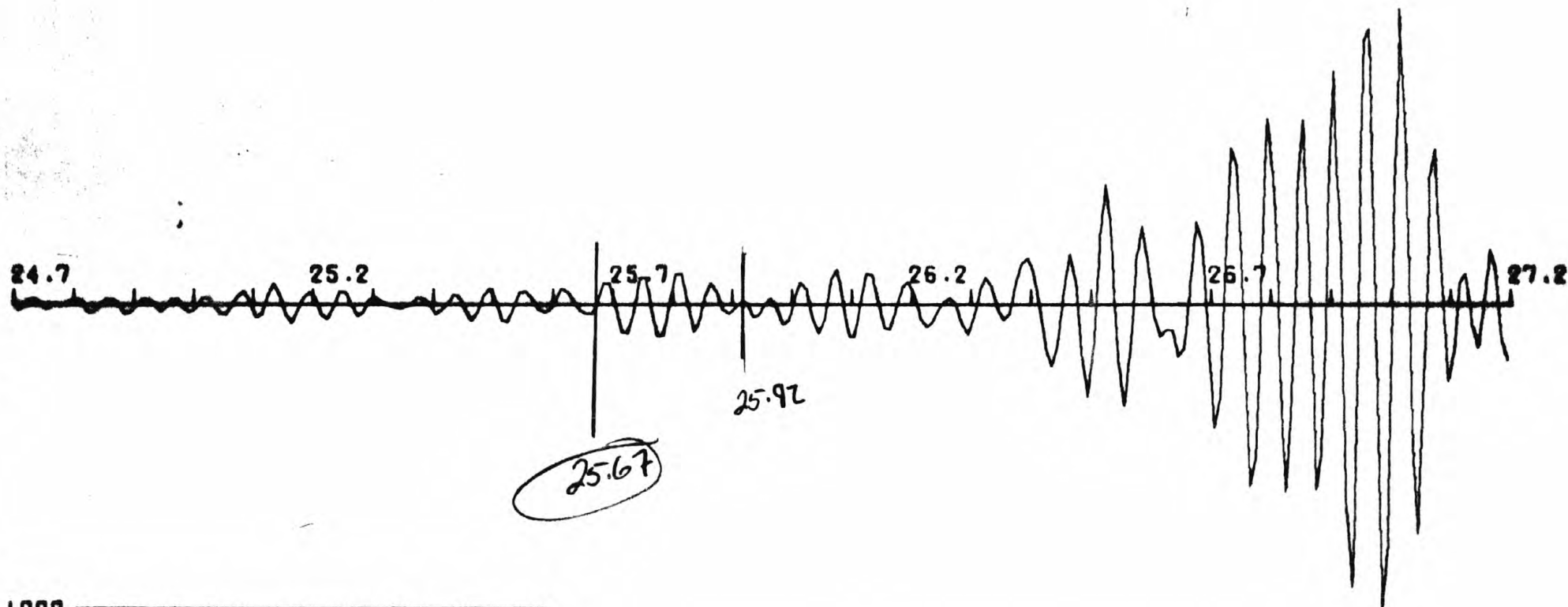
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 3

RECORDER LOCATION 485

DISTANCE FROM SHOT (KM) = -157.501

TS SCALE (CM/SEC) = 10.0



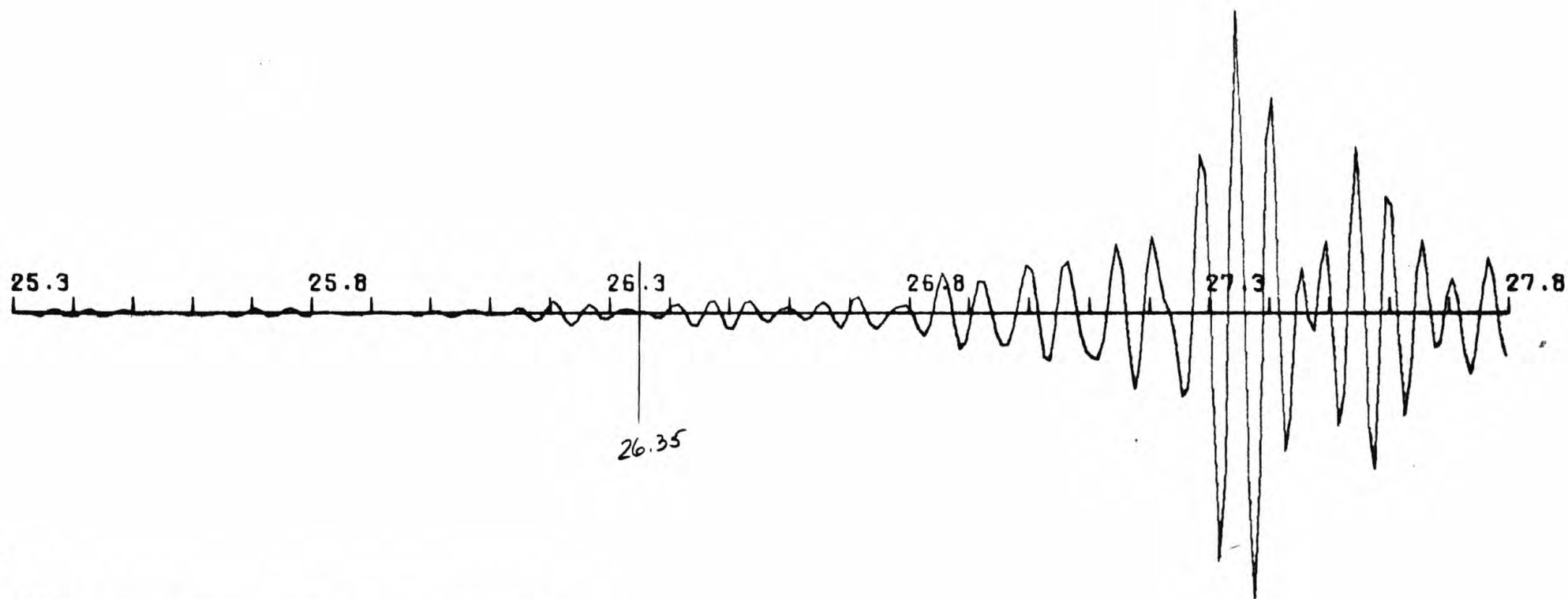
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 3

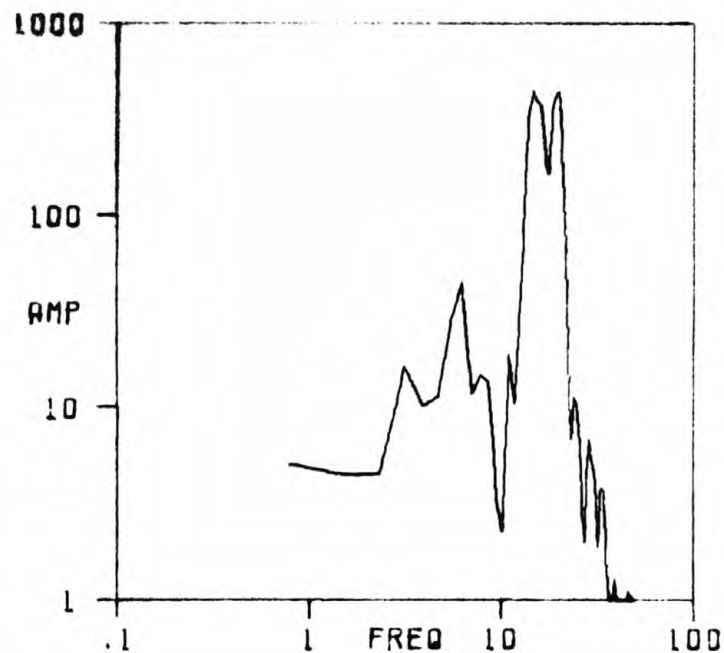
RECORDER LOCATION 486

DISTANCE FROM SHOT (KM) = -160.000

TSCALE (CM/SEC) = 10.0



425



SAUDI REFRACTION PROFILE 15.20 BP

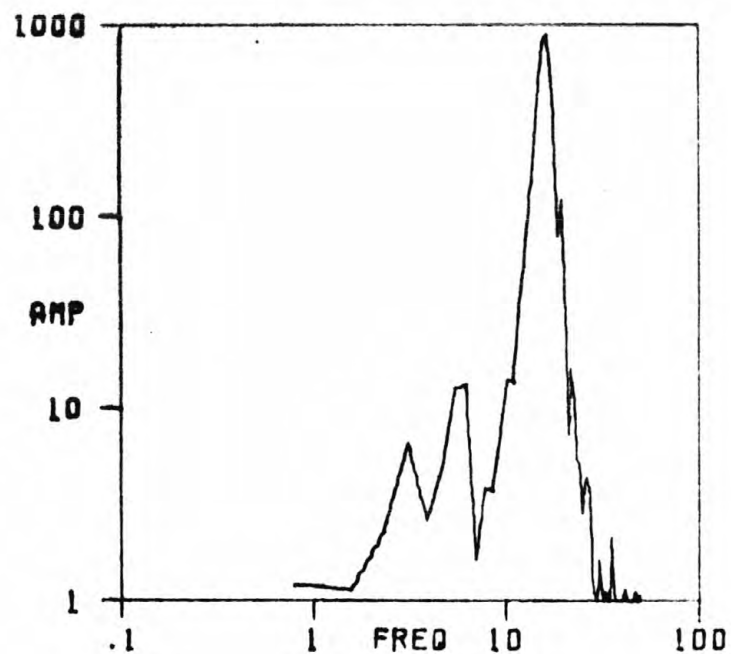
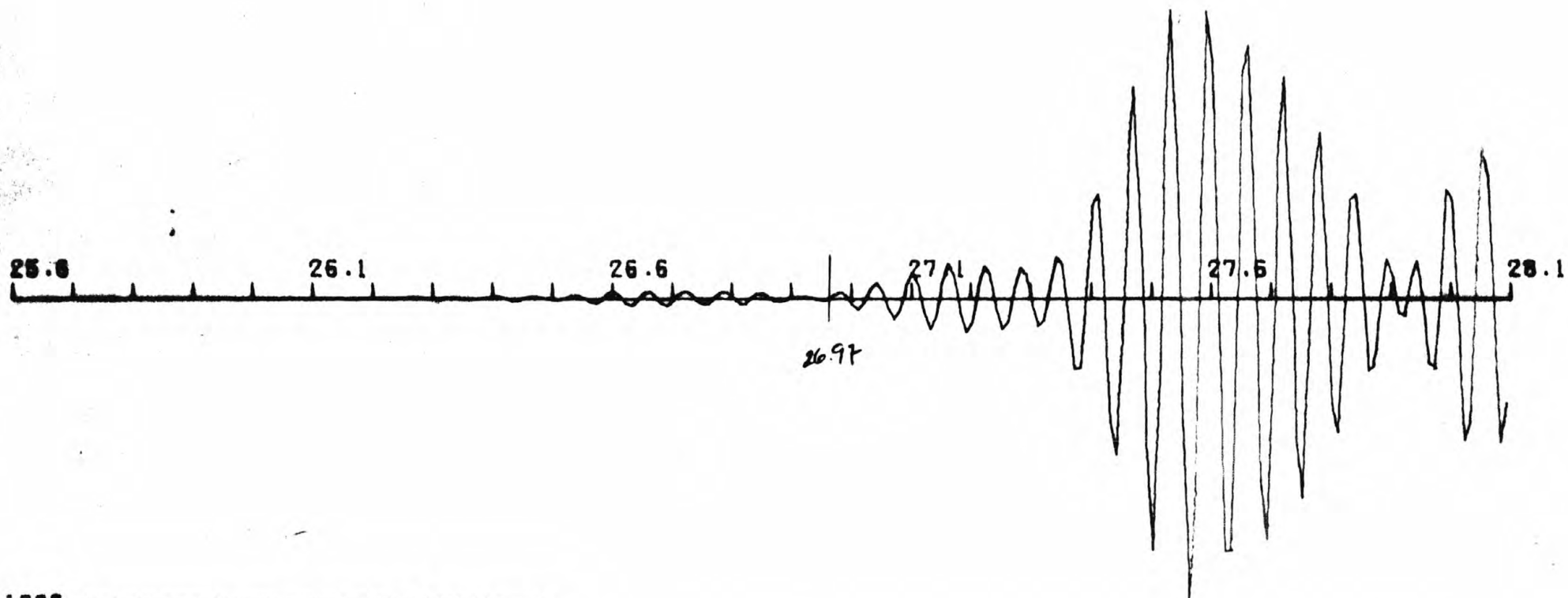
SHOT POINT 3

RECORDER LOCATION 487

DISTANCE FROM SHOT (KM) = -163.302

TSCALE (CM/SEC) = 10.0

426



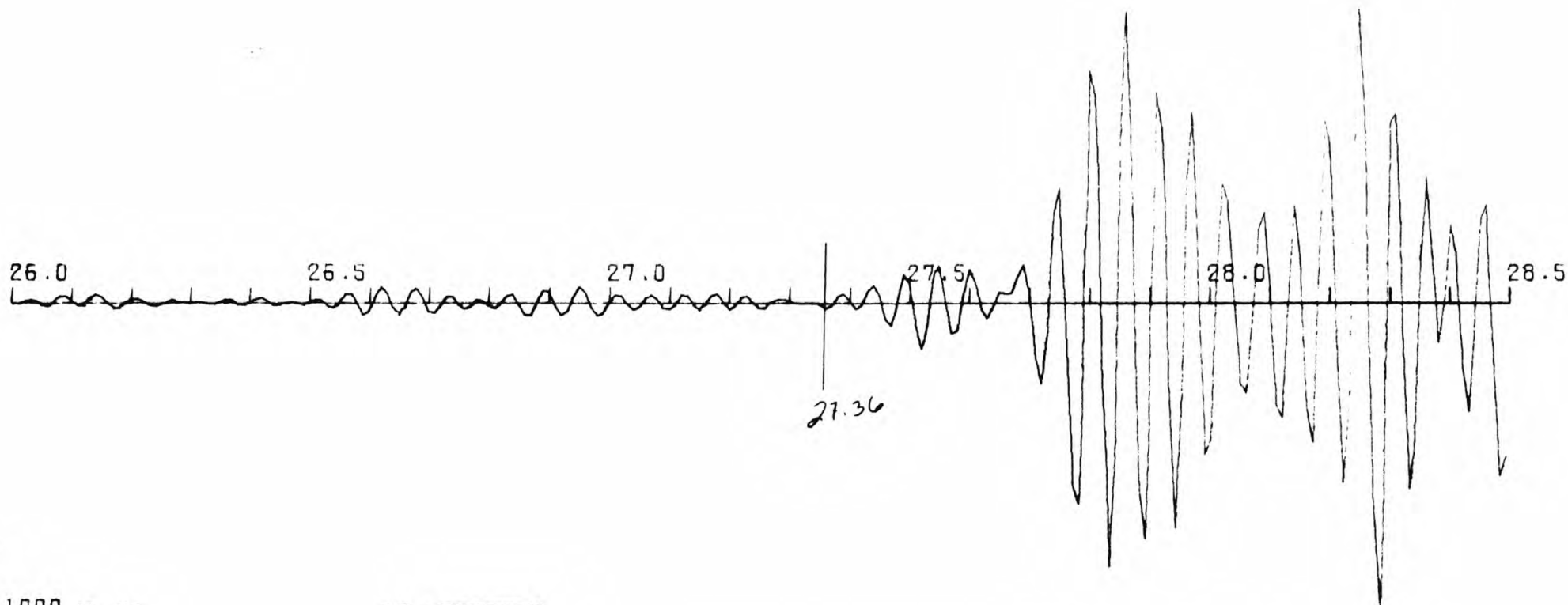
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 3

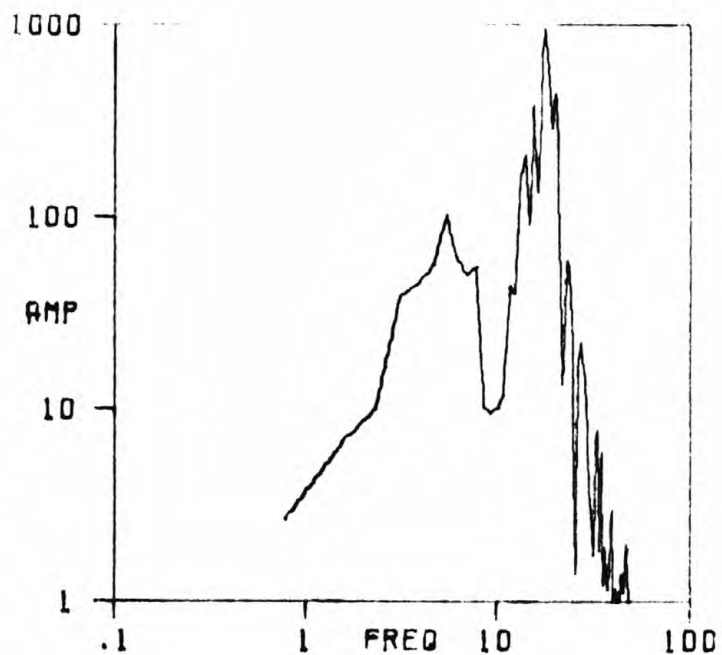
RECORDER LOCATION 488

DISTANCE FROM SHOT (KM) = -165.214

TSCALE (CM/SEC) = 10.0



427



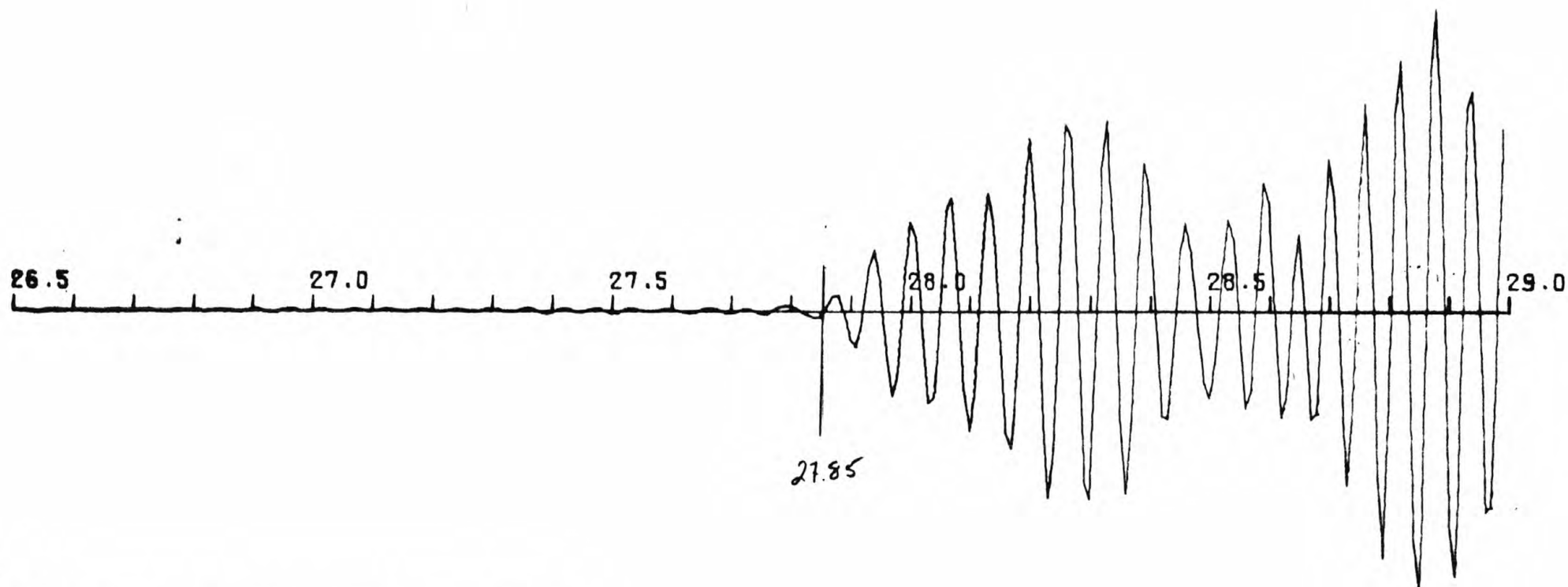
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 3

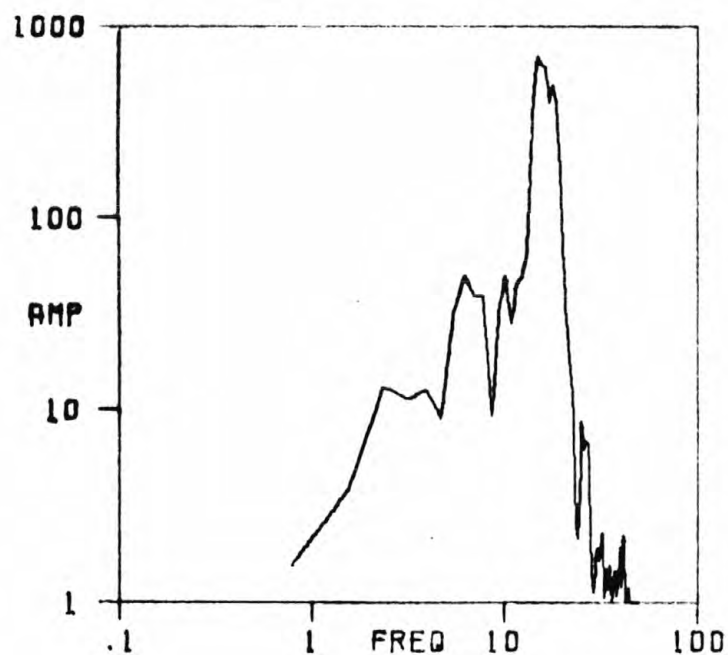
RECORDER LOCATION 489

DISTANCE FROM SHOT (KM) = -167.951

TSCALE (CM/SEC) = 10.0



428



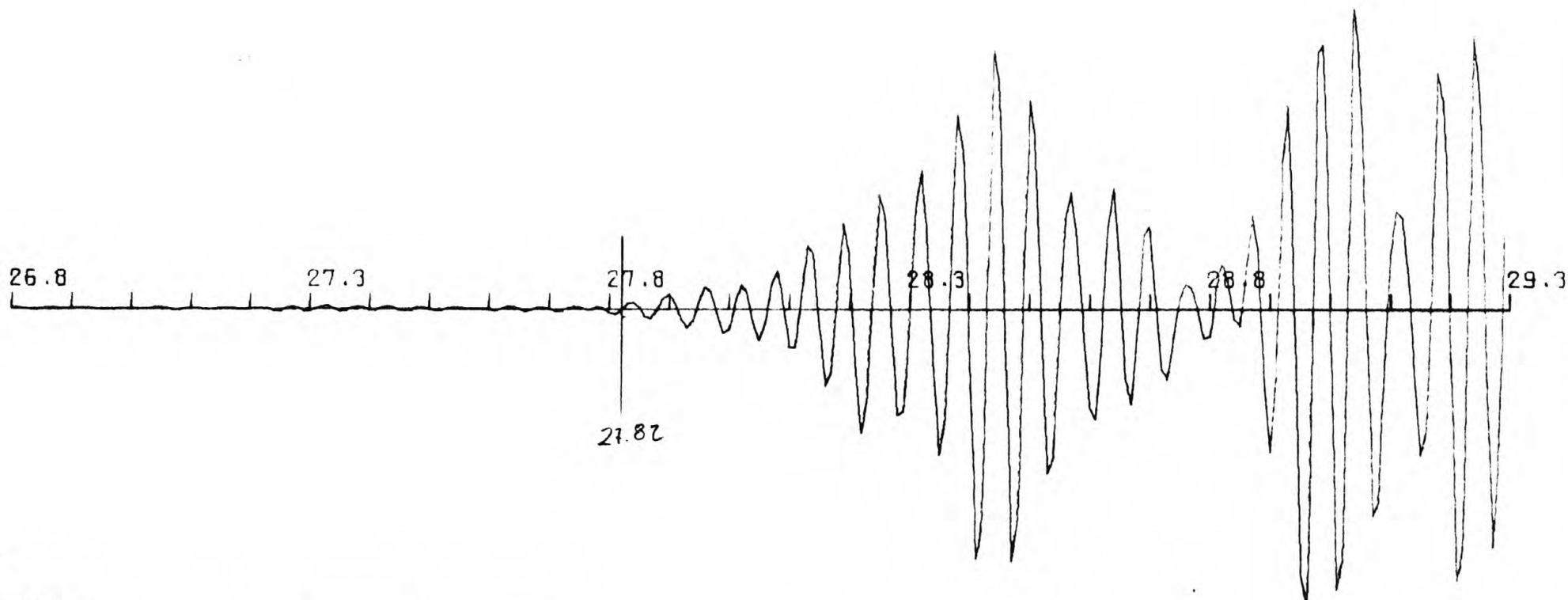
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 3

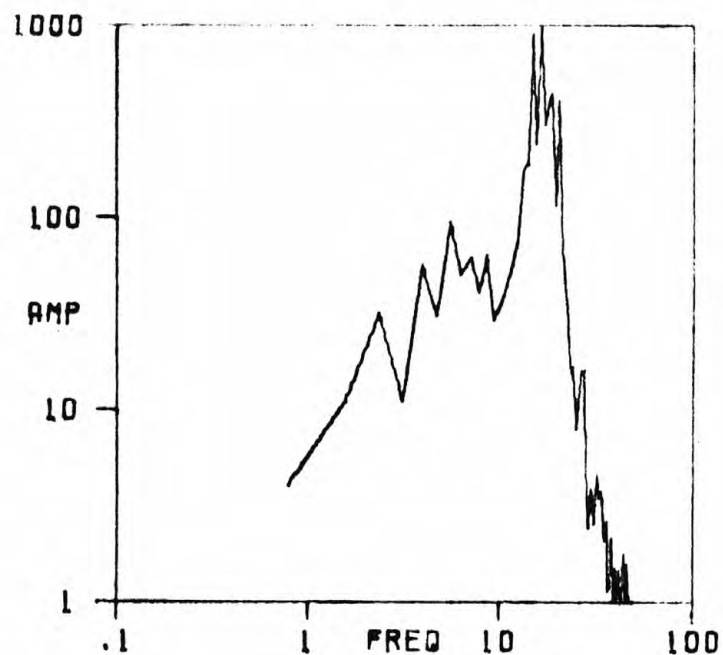
RECORDER LOCATION 490

DISTANCE FROM SHOT (KM) = -170.464

TSCALE (CM/SEC) = 10.0



429



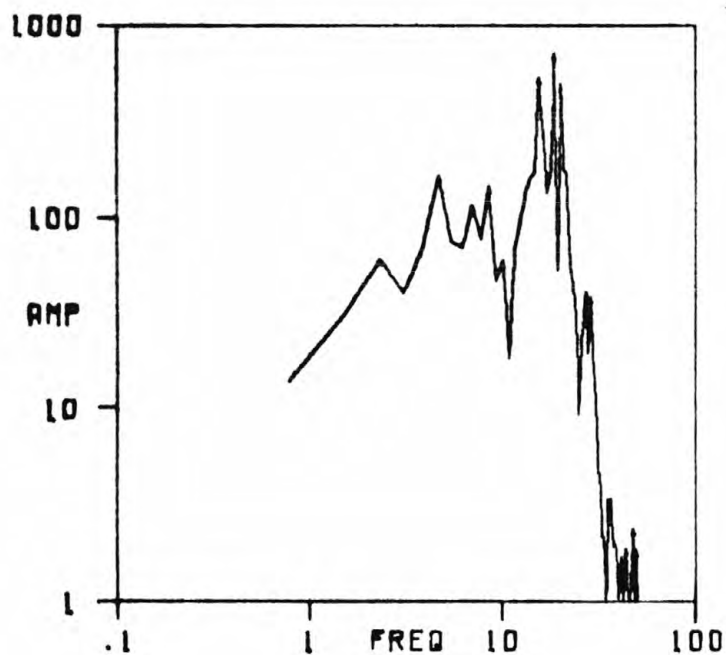
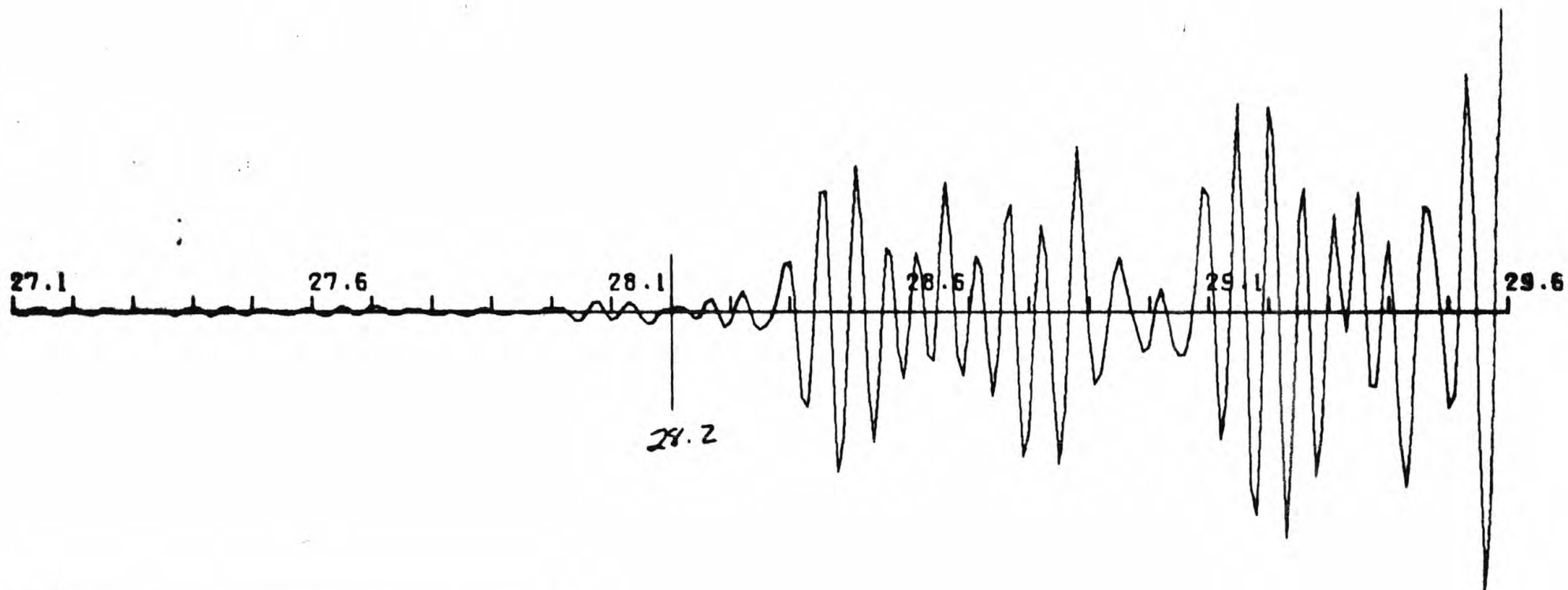
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 3

RECORDER LOCATION 491

DISTANCE FROM SHOT (KM) = -172.449

TSCALE (CM/SEC) = 10.0



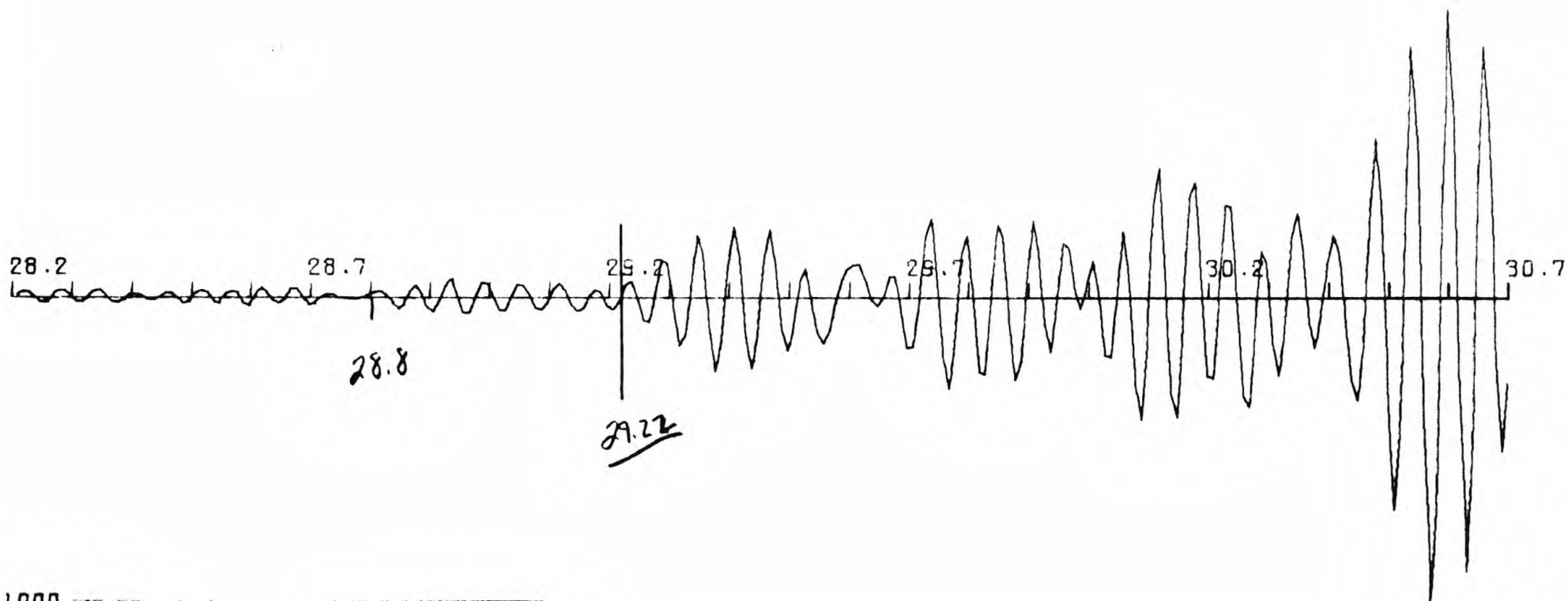
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 3

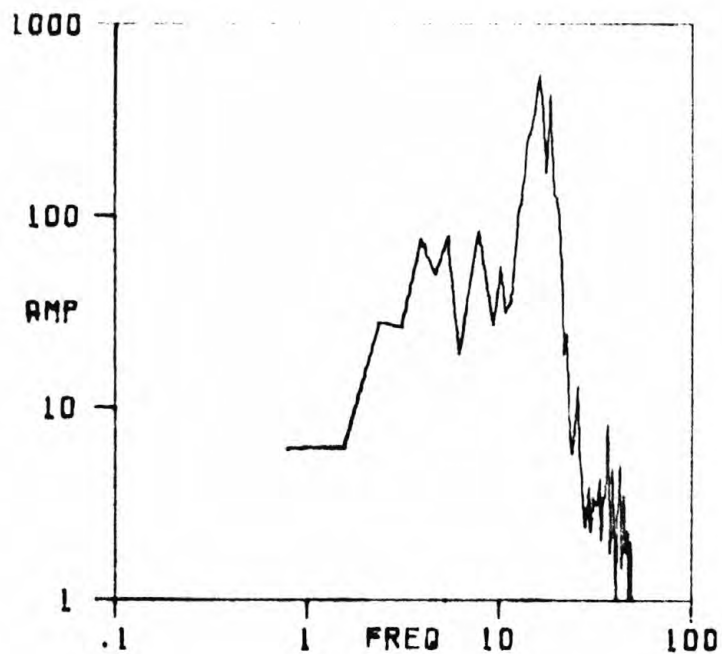
RECORDER LOCATION 492

DISTANCE FROM SHOT (KM) = -174.551

TSCALE (CM/SEC) = 10.0



431



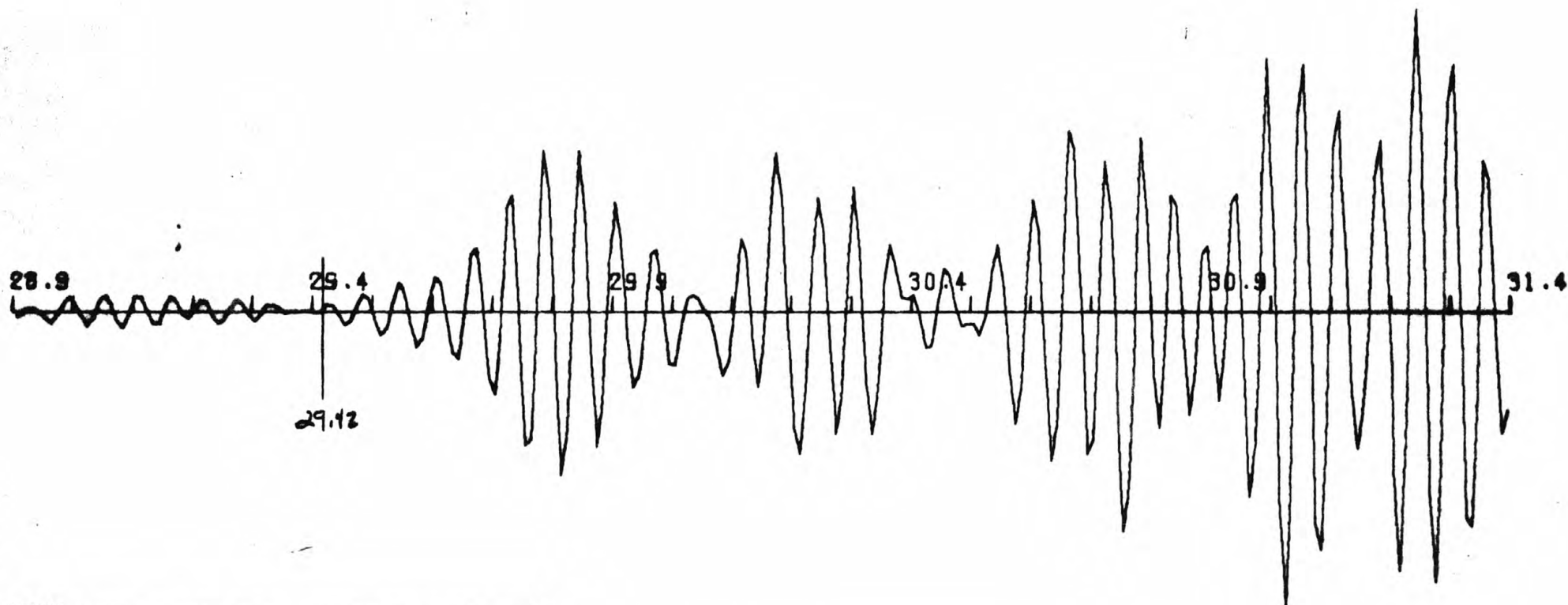
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 3

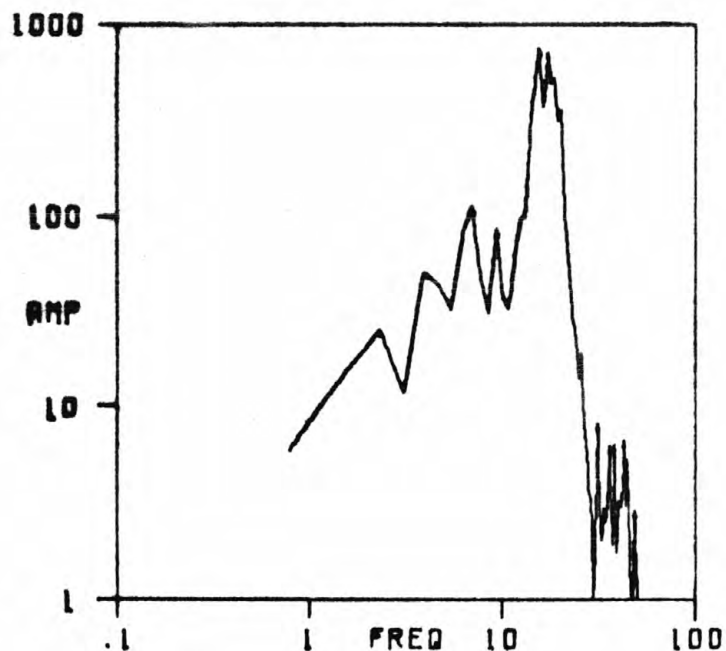
RECORDER LOCATION 495

DISTANCE FROM SHOT (KM) = -180.955

TSCALE (CM/SEC) = 10.0



29.12



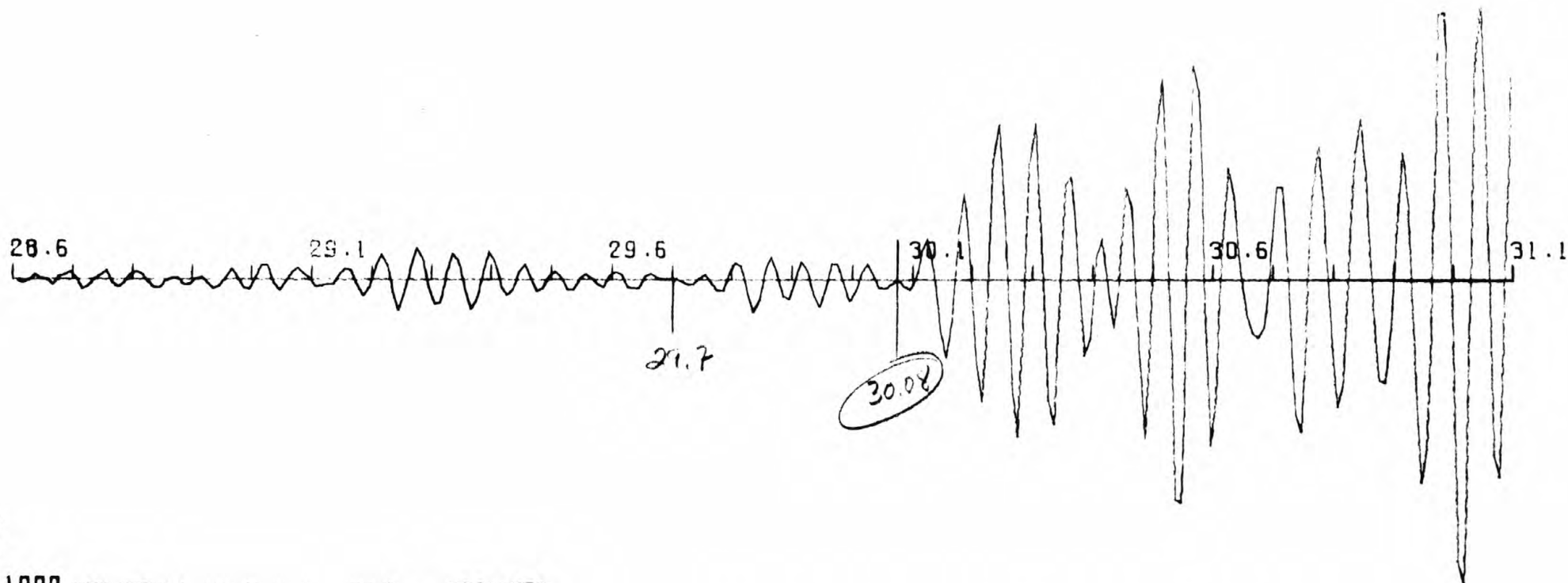
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 3

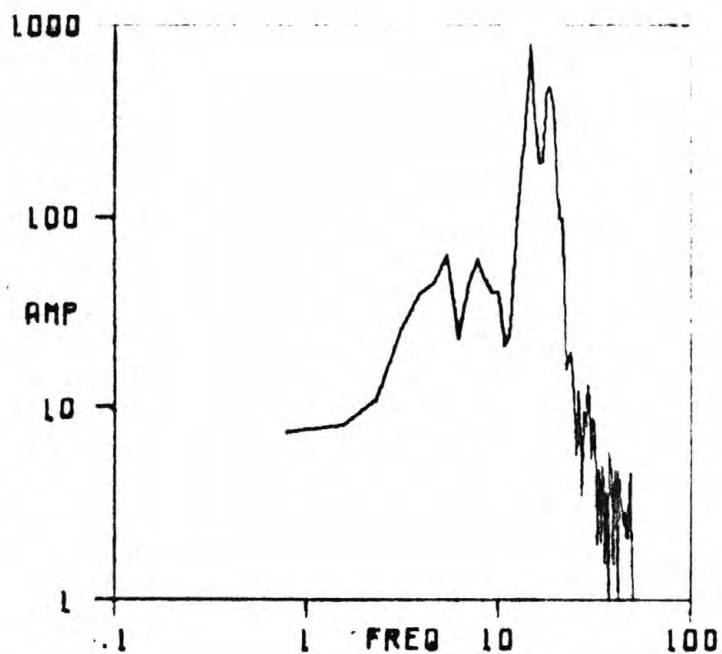
RECORDER LOCATION 497

DISTANCE FROM SHOT (KM) = -184.899

TSCALE (CM/SEC) = 10.0



433



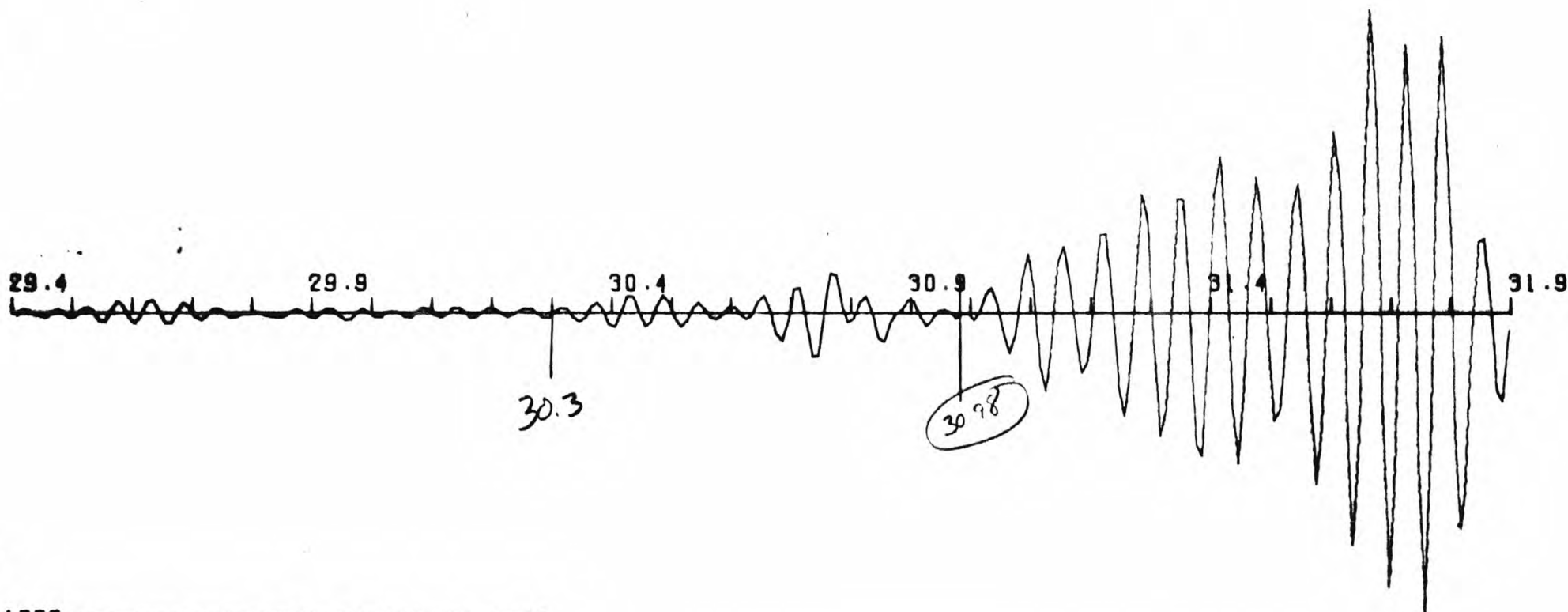
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 3

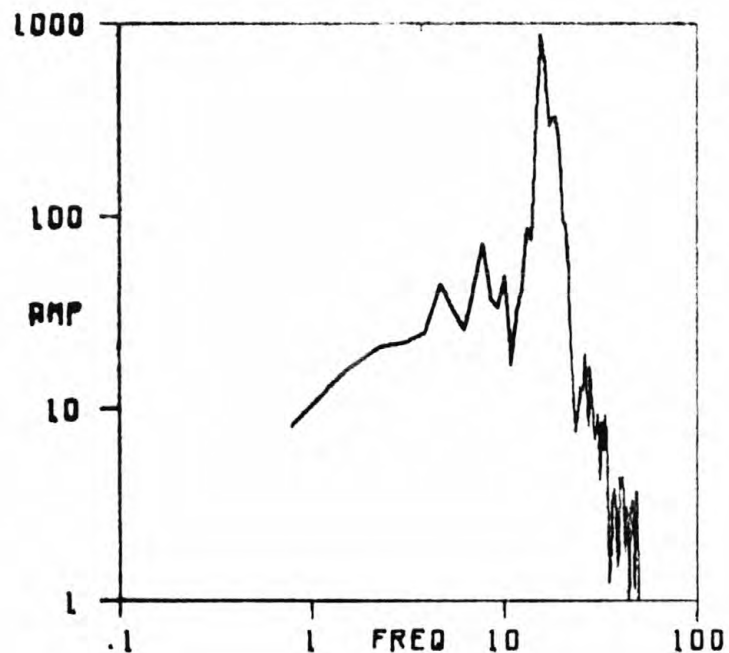
RECORDER LOCATION 499

DISTANCE FROM SHOT (KM) = -189.473

TSCALE (CM/SEC) = 10.0



434



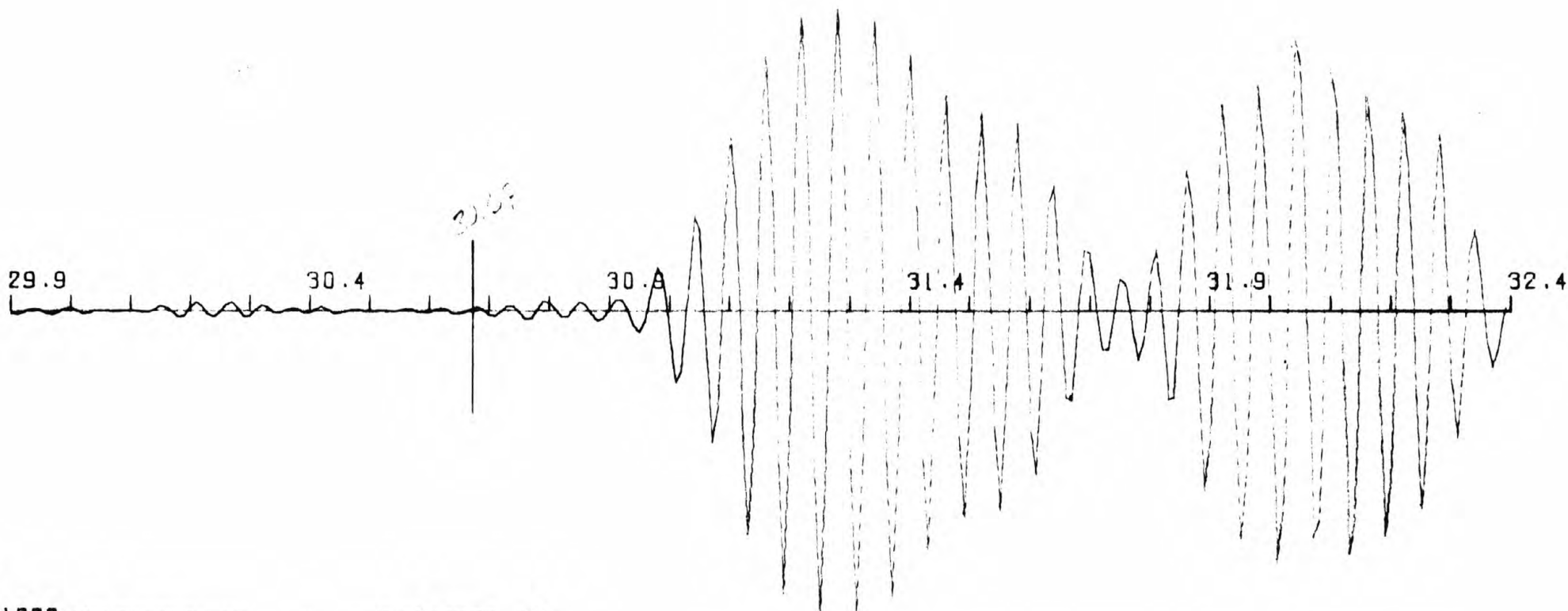
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 3

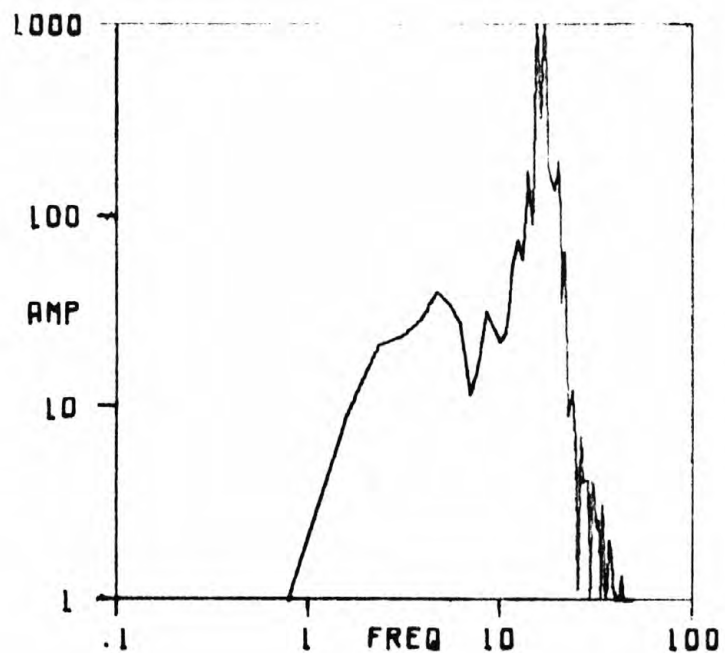
RECORDER LOCATION 501

DISTANCE FROM SHOT (KM) = -193.968

TSCALE (CM/SEC) = 10.0



435



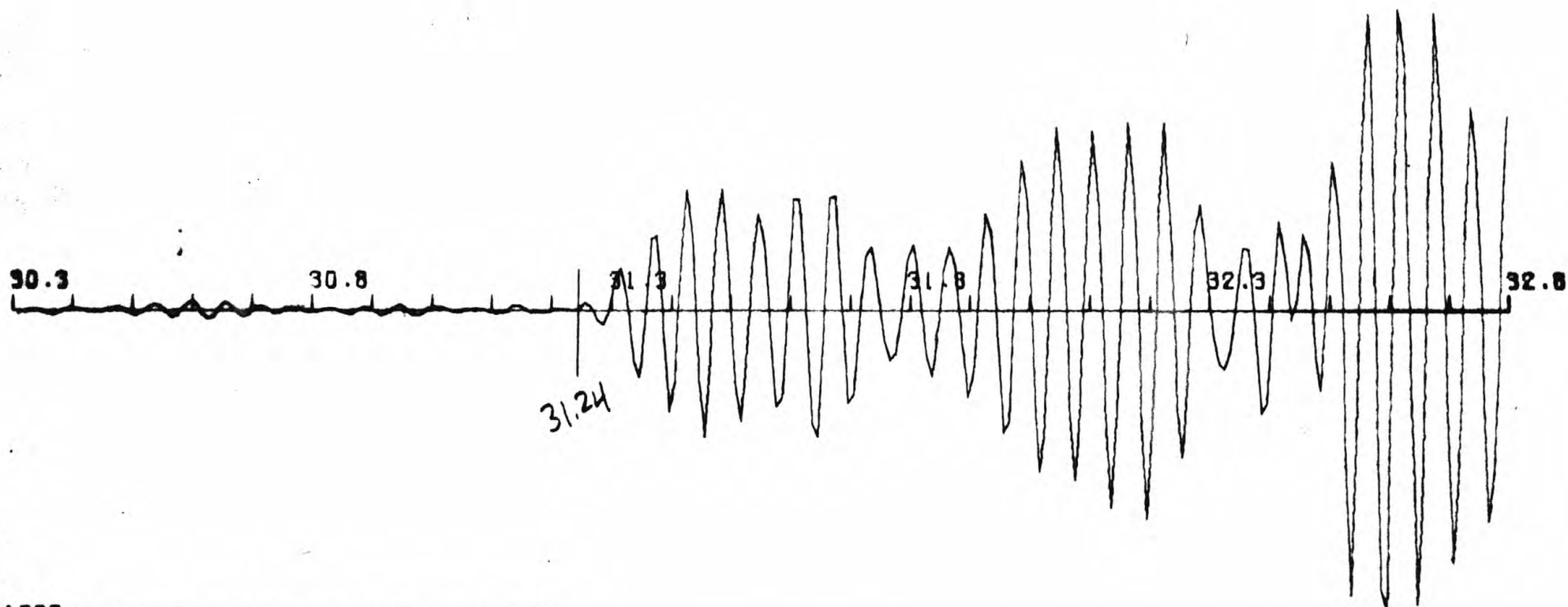
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 3

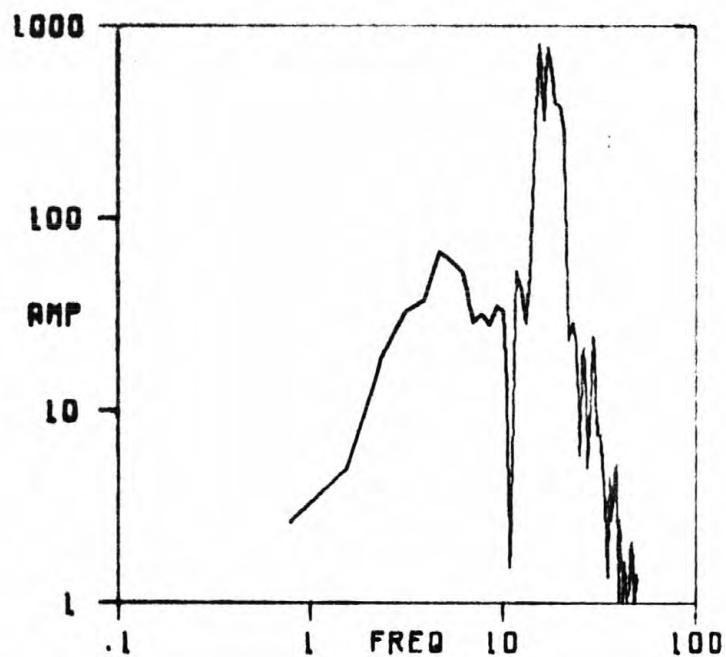
RECORDER LOCATION 502

DISTANCE FROM SHOT (KM) = -196.935

TSCALE (CM/SEC) = 10.0



436



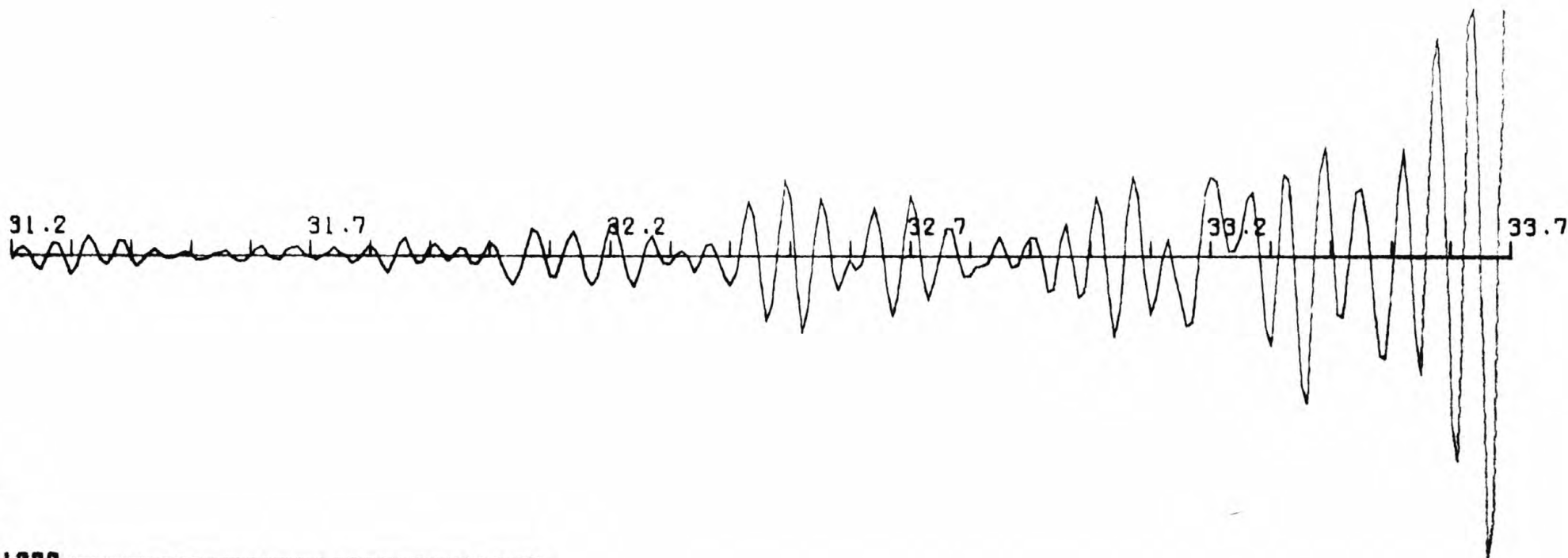
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 3

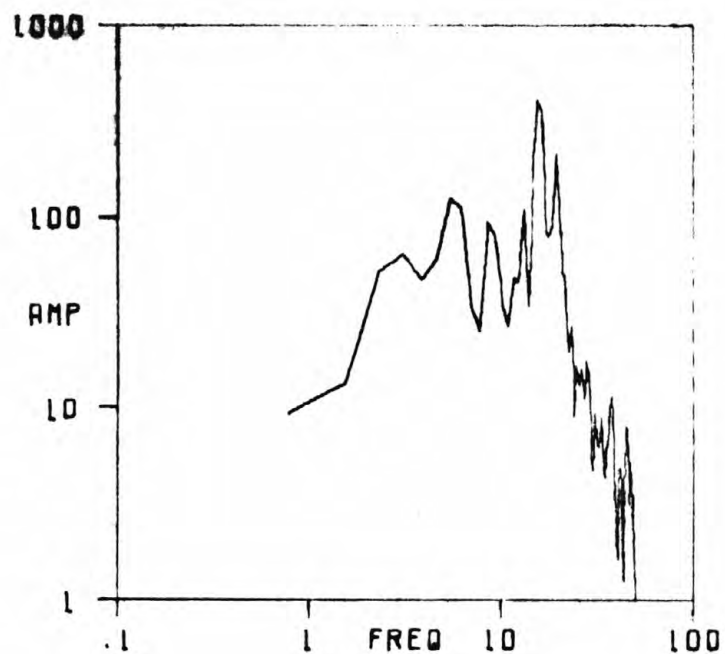
RECORDER LOCATION 503

DISTANCE FROM SHOT (KM) = -199.668

TSCALE (CM/SEC) = 10.0



437



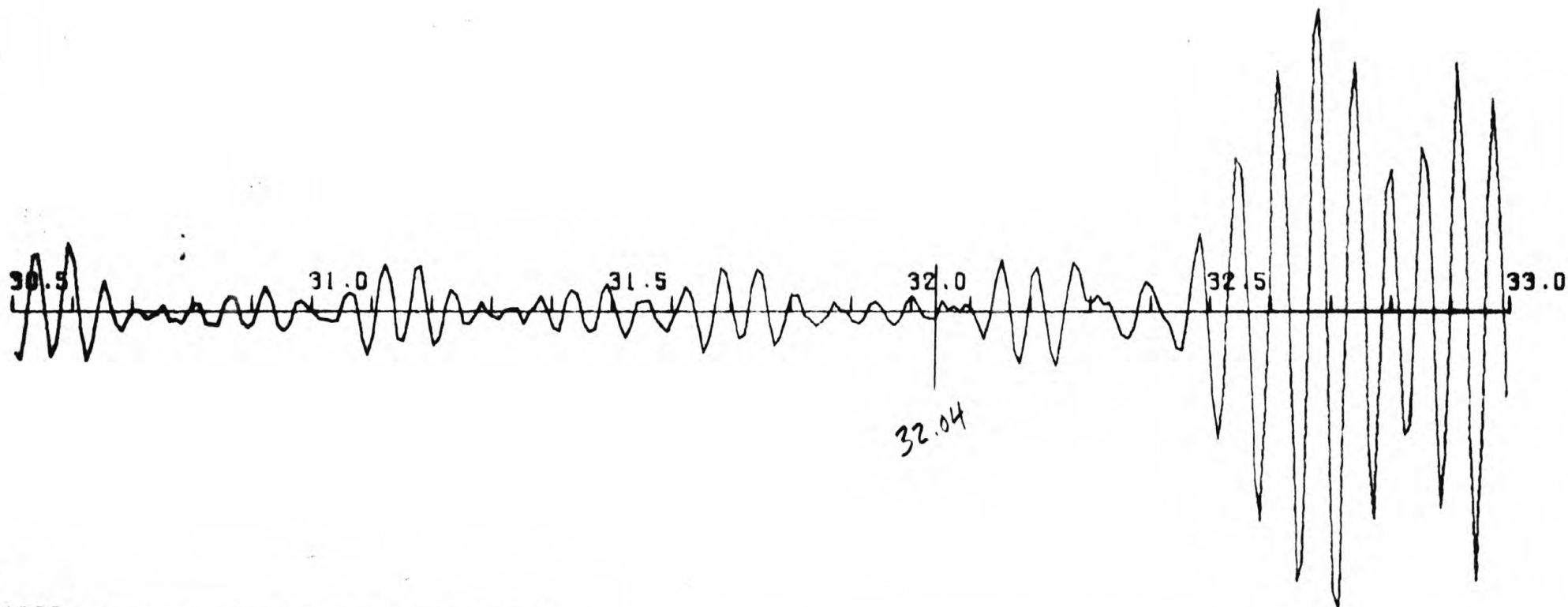
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 3

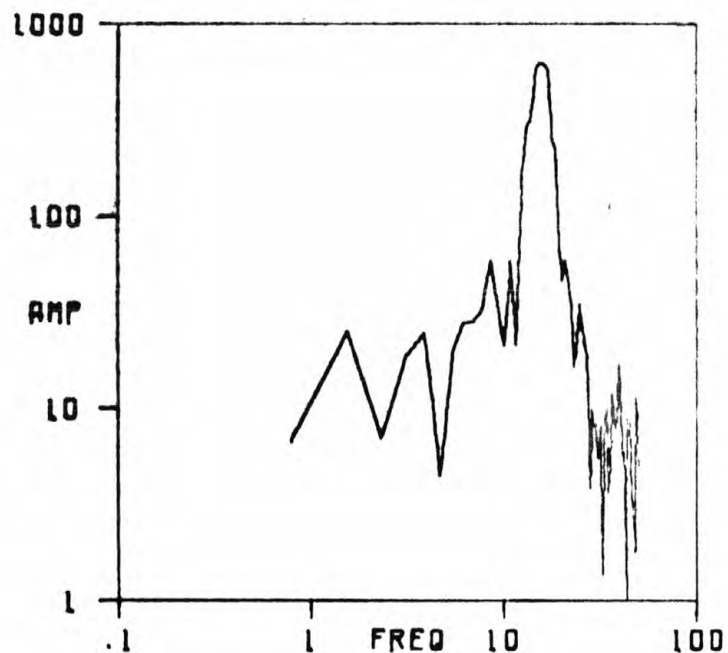
RECORDER LOCATION 505

DISTANCE FROM SHOT (KM) = -205.152

TSCALE (CM/SEC) = 10.0



438



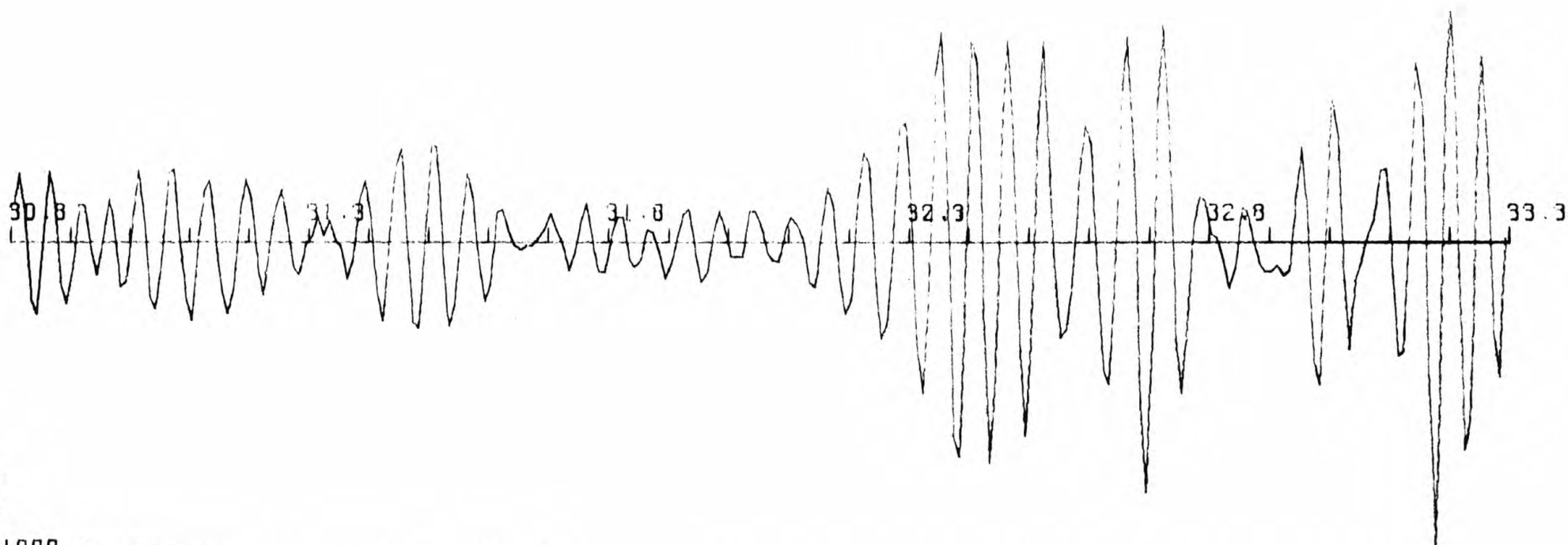
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 3

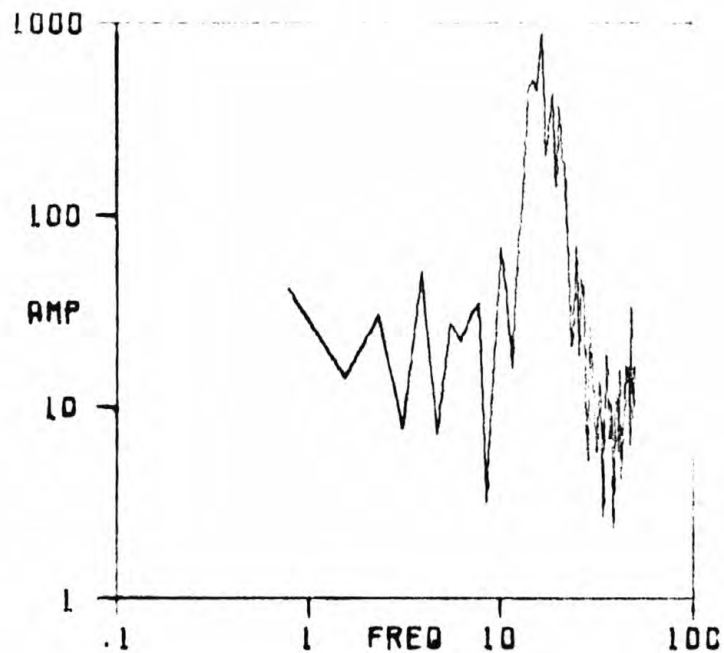
RECORDER LOCATION 506

DISTANCE FROM SHOT (KM) = -206.850

TSCALE (CM/SEC) = 10.0



439



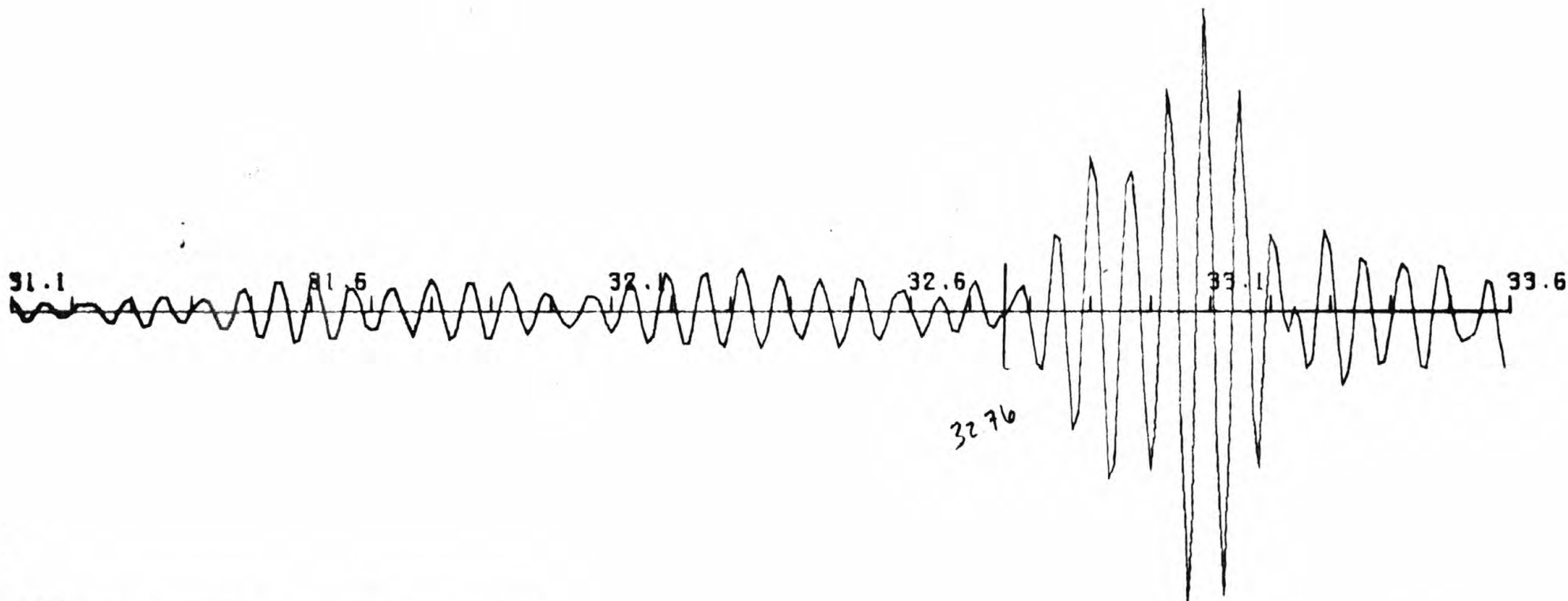
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 3

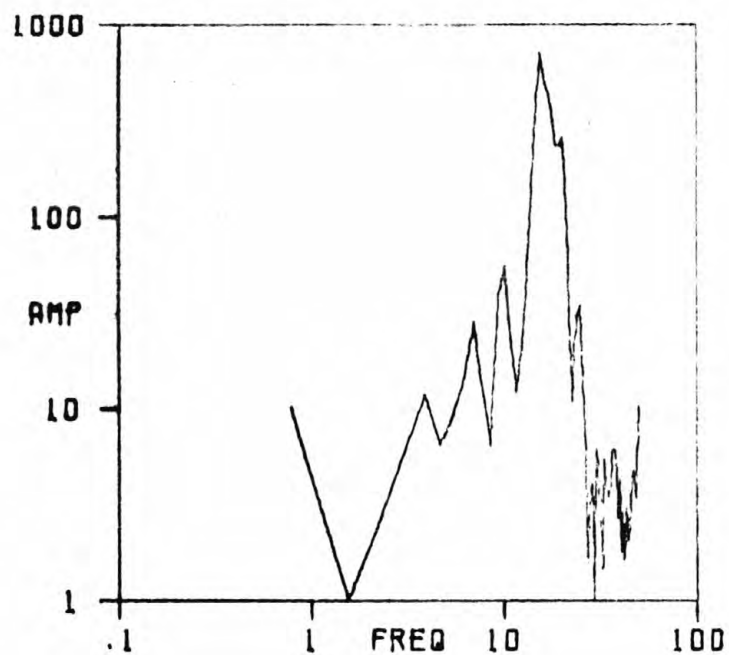
RECORDER LOCATION 507

DISTANCE FROM SHOT (KM) = -208.597

TSCALE (CM/SEC) = 10.0



440



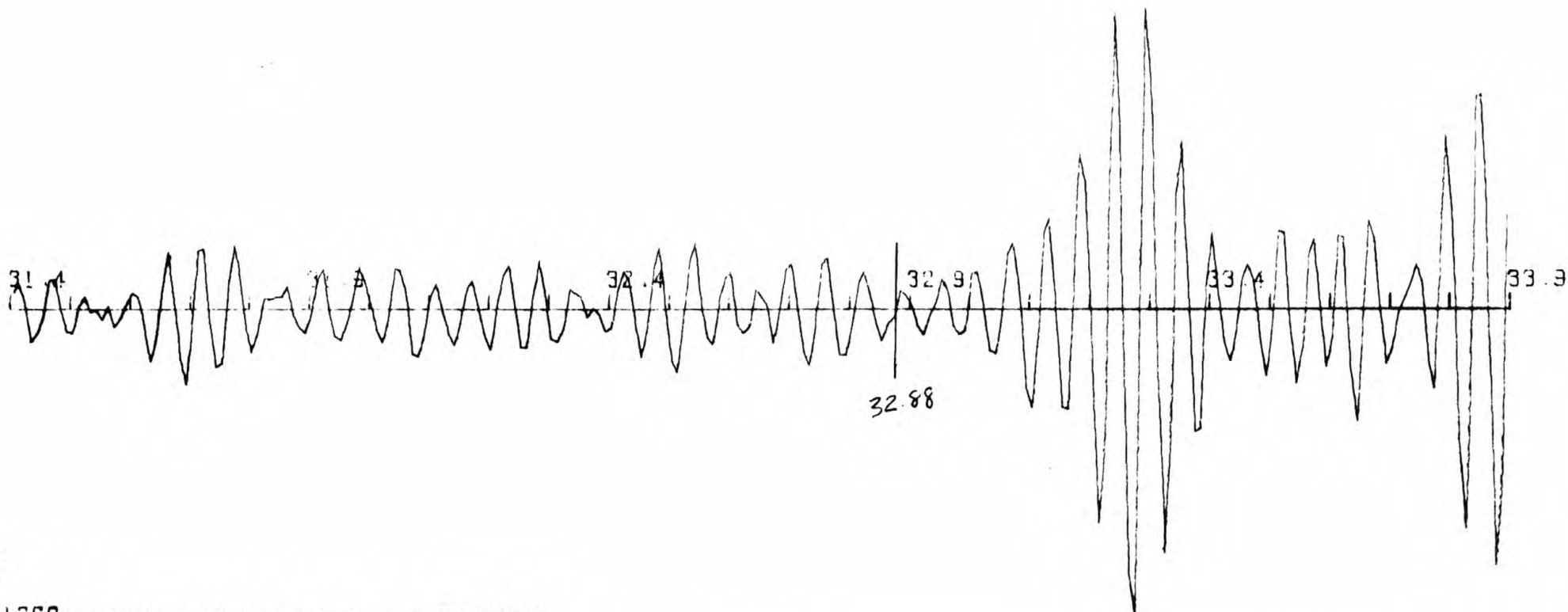
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 3

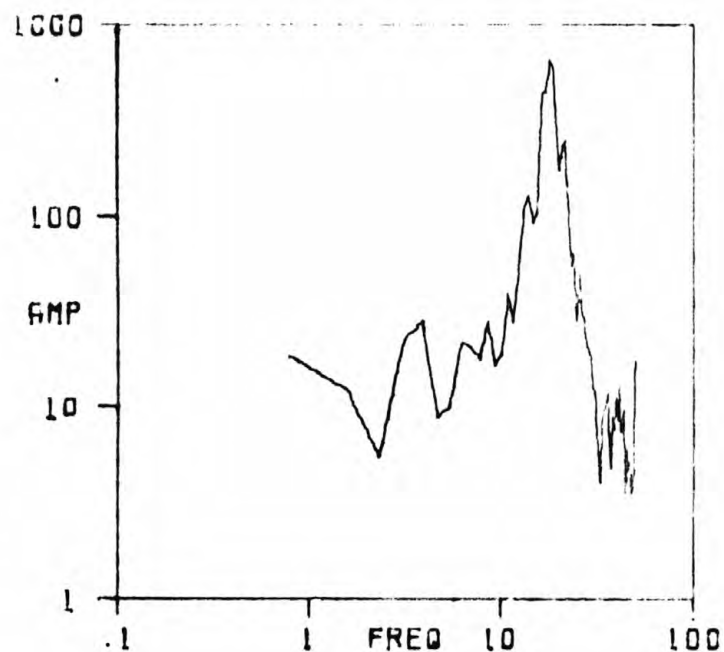
RECORDER LOCATION 508

DISTANCE FROM SHOT (KM) = -210.195

TSCALE (CM/SEC) = 10.0



441



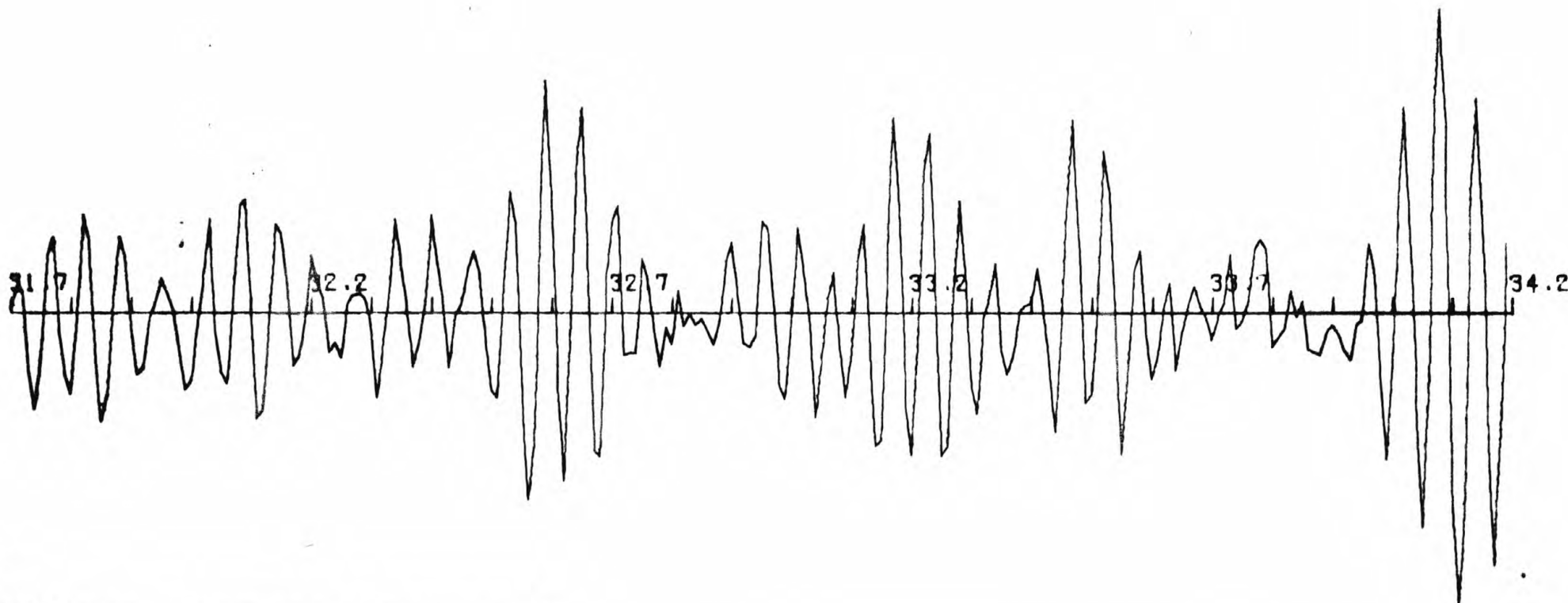
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 3

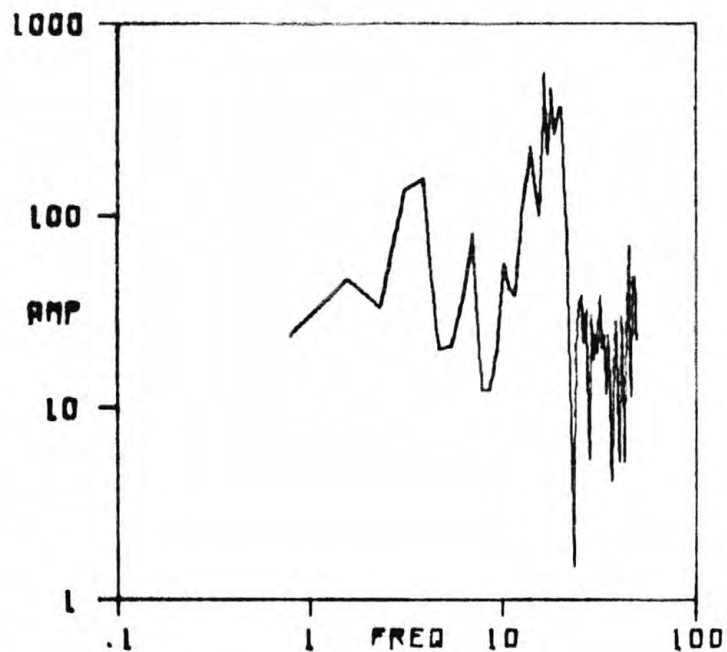
RECORDER LOCATION 509

DISTANCE FROM SHOT (KM) = -212.256

TSCALE (CM/SEC) = 10.0



442



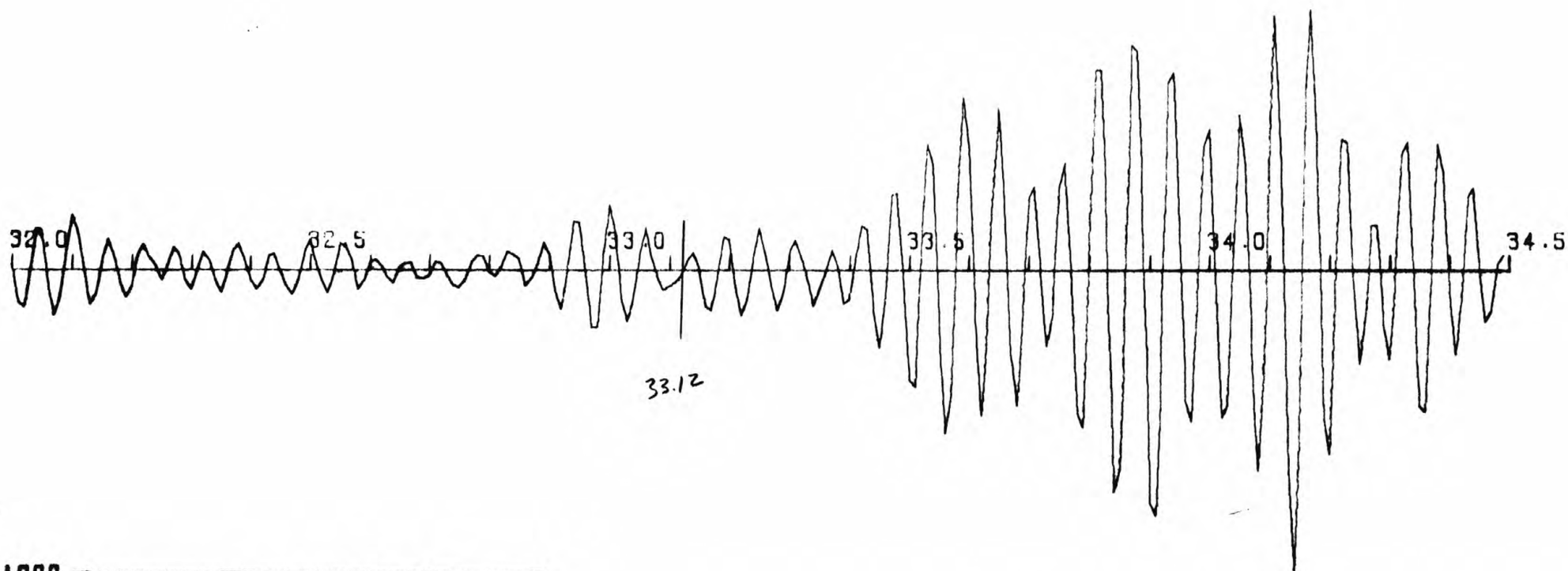
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 3

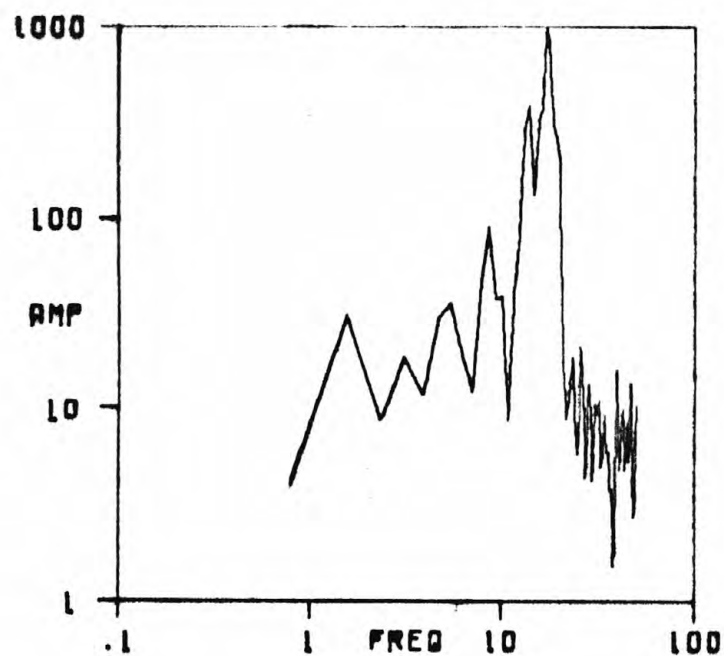
RECORDER LOCATION 510

DISTANCE FROM SHOT (KM) = -214.148

TSCALE (CM/SEC) = 10.0



443



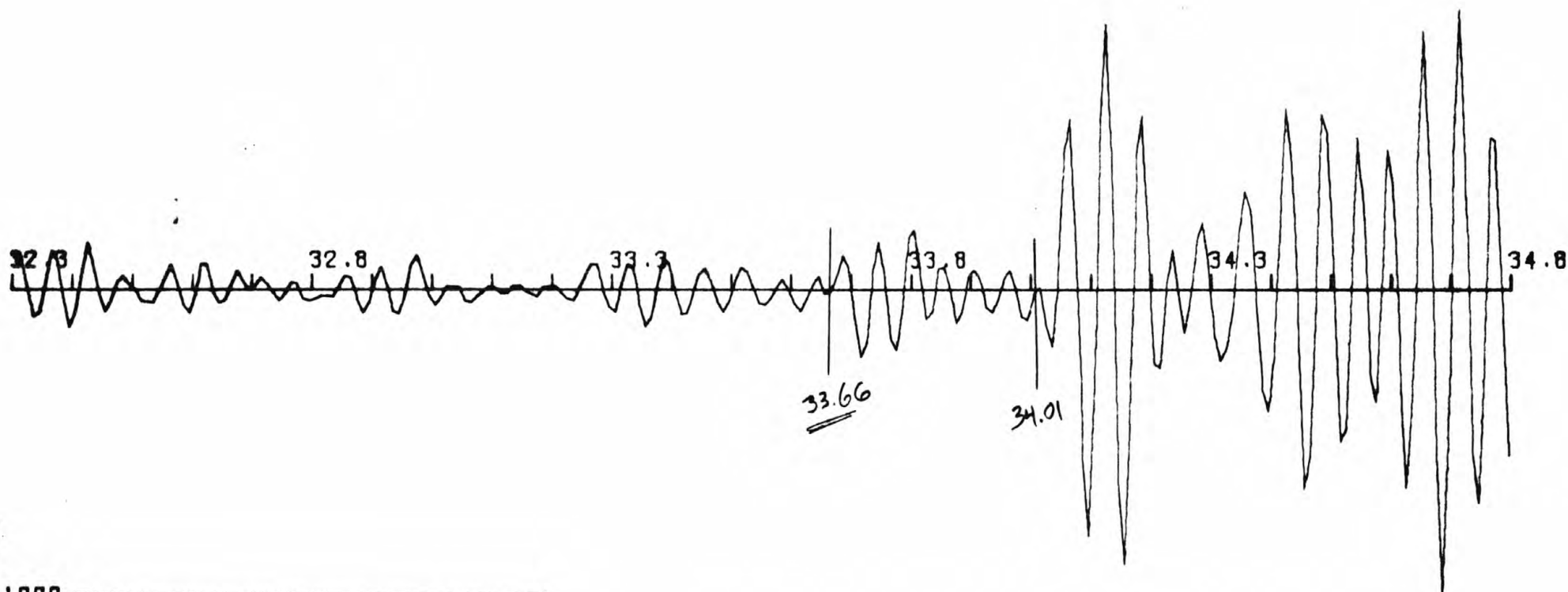
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 9

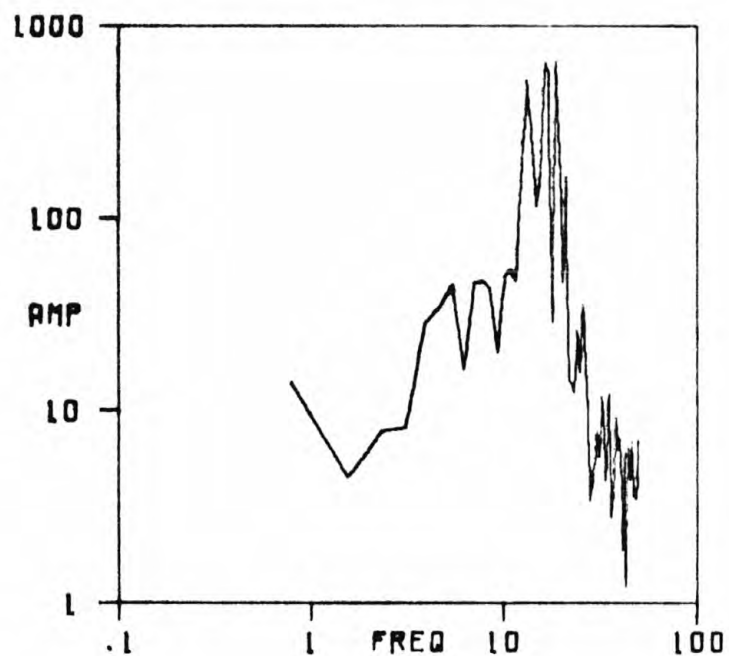
RECORDER LOCATION S11

DISTANCE FROM SHOT (KM) = -215.711

TSCALE (CM/SEC) = 10.0



444



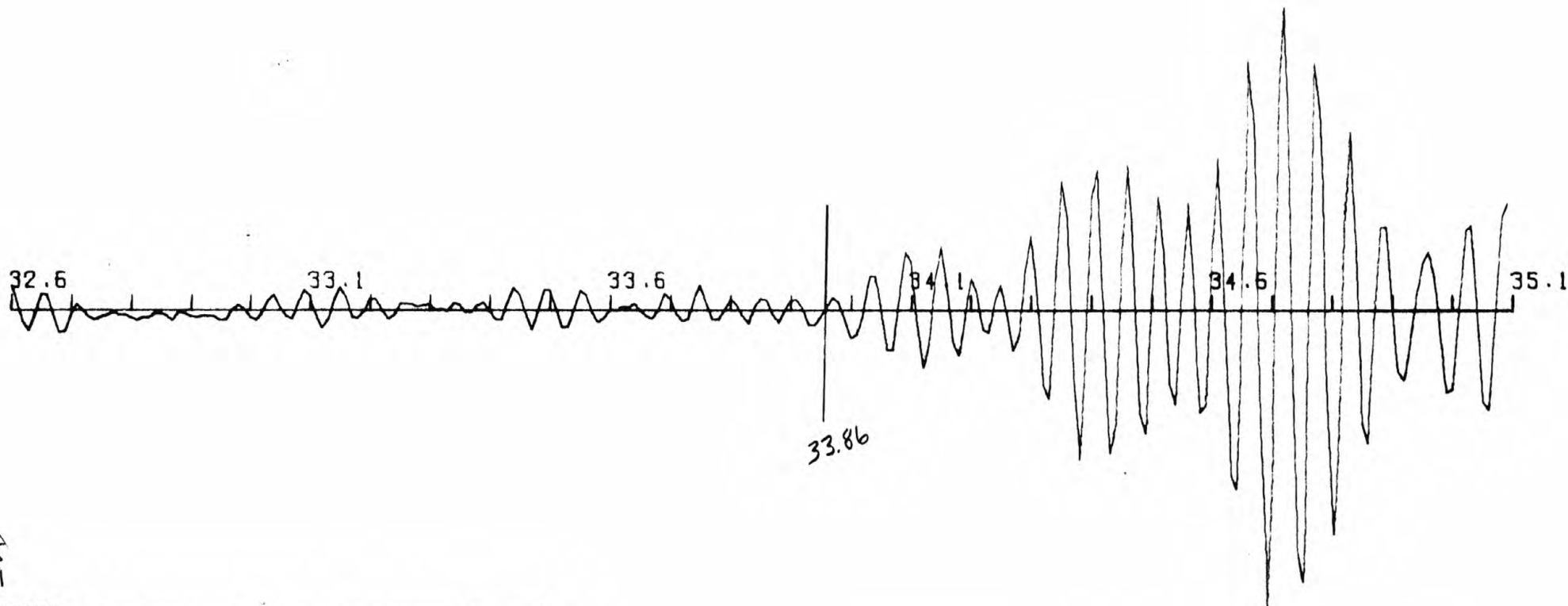
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 3

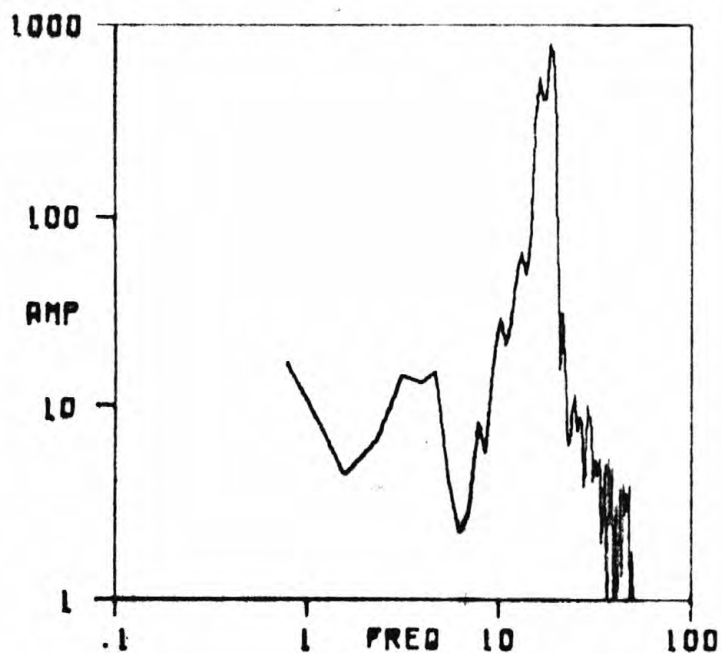
RECORDER LOCATION 512

DISTANCE FROM SHOT (KM) = -217.425

TSCALE (CM/SEC) = 10.0



445



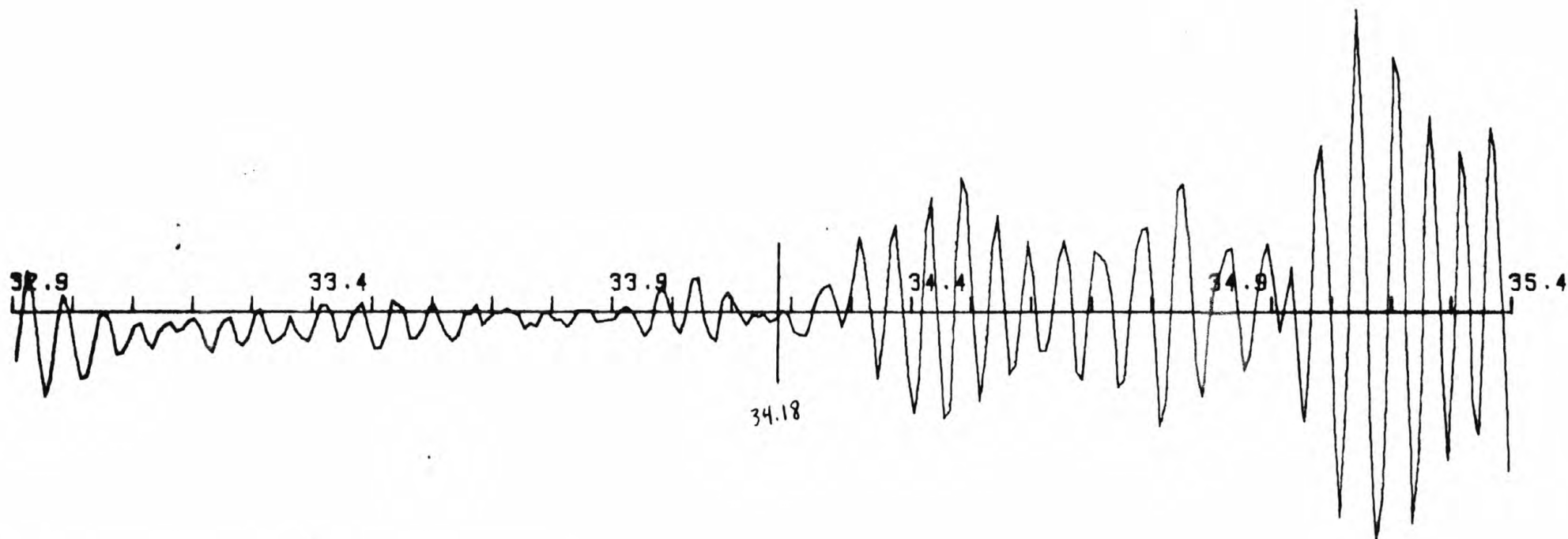
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 3

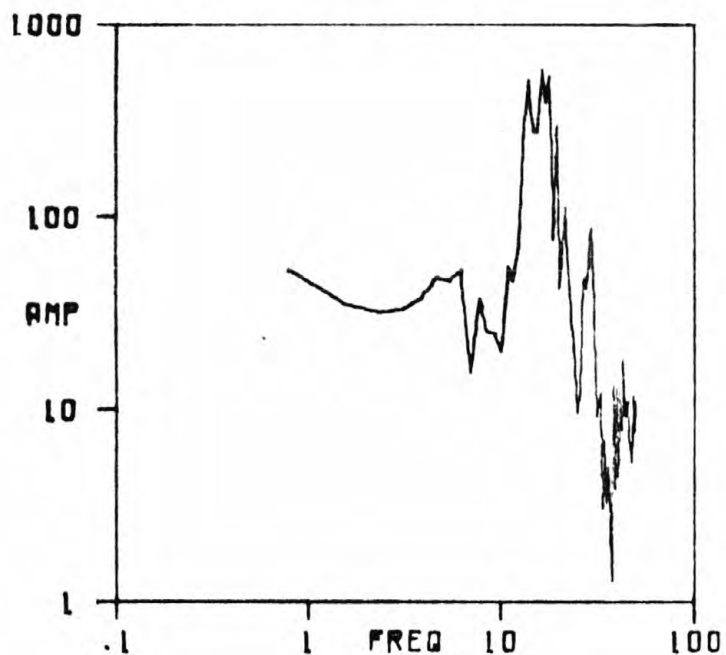
RECORDER LOCATION 513

DISTANCE FROM SHOT (KM) = -219.309

TSCALE (CM/SEC) = 10.0



446



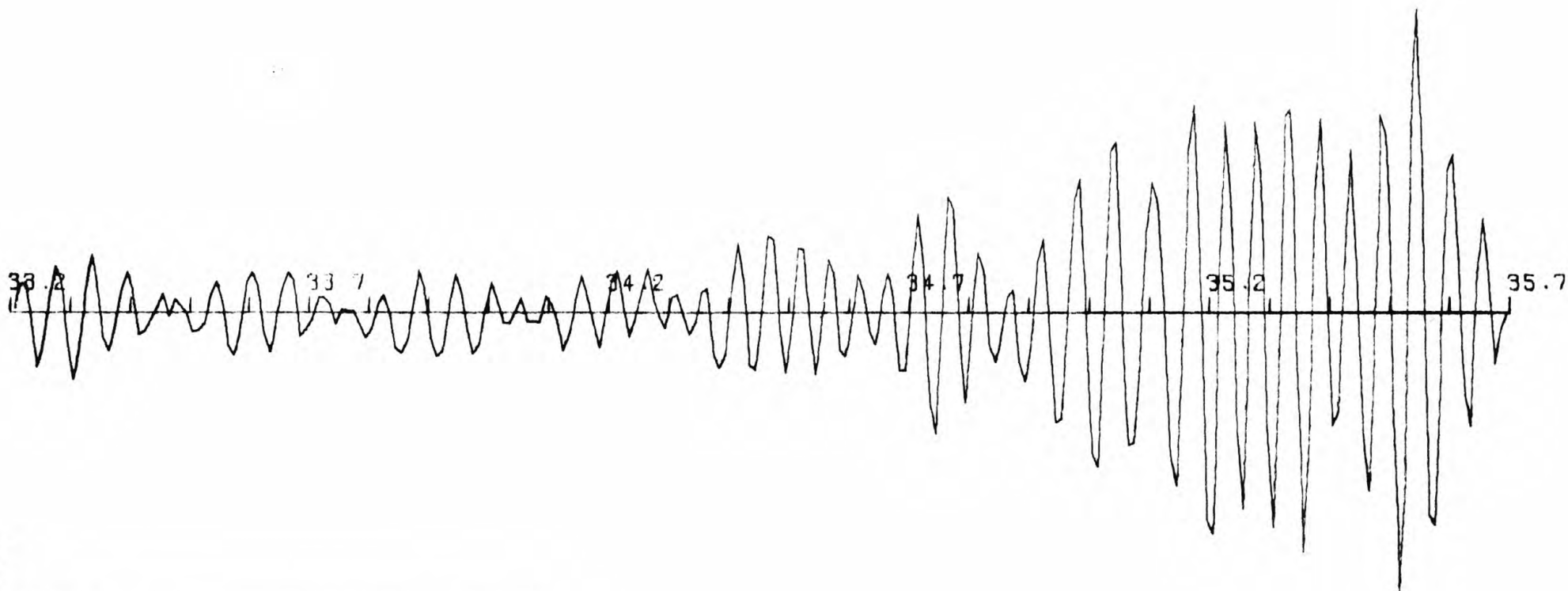
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 3

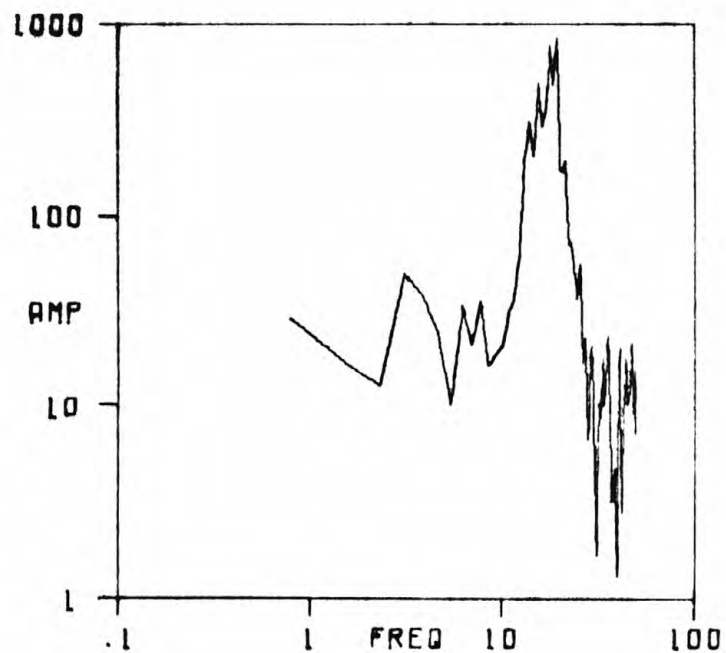
RECORDER LOCATION 514

DISTANCE FROM SHOT (KM) = -221.016

TSCALE (CM/SEC) = 10.0



447



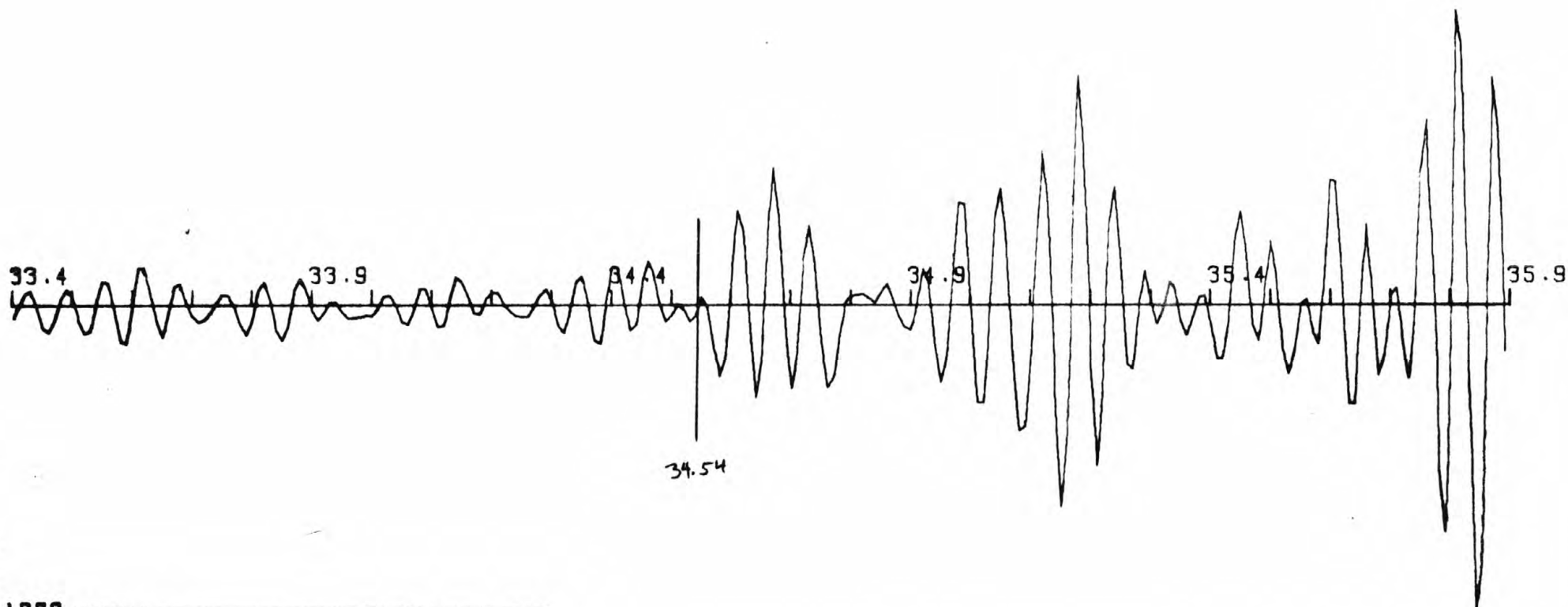
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 3

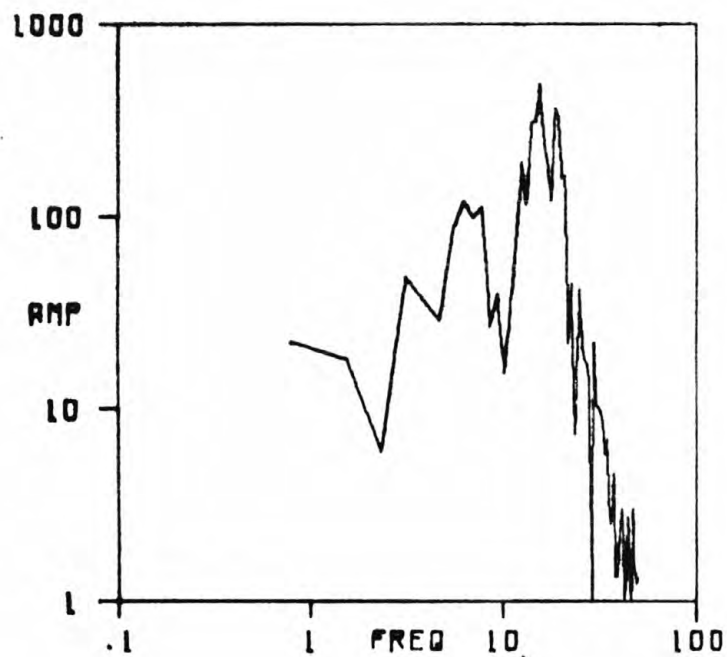
RECORDER LOCATION S15

DISTANCE FROM SHOT (KM) = -222.701

TSCALE (CM/SEC) = 10.0



448



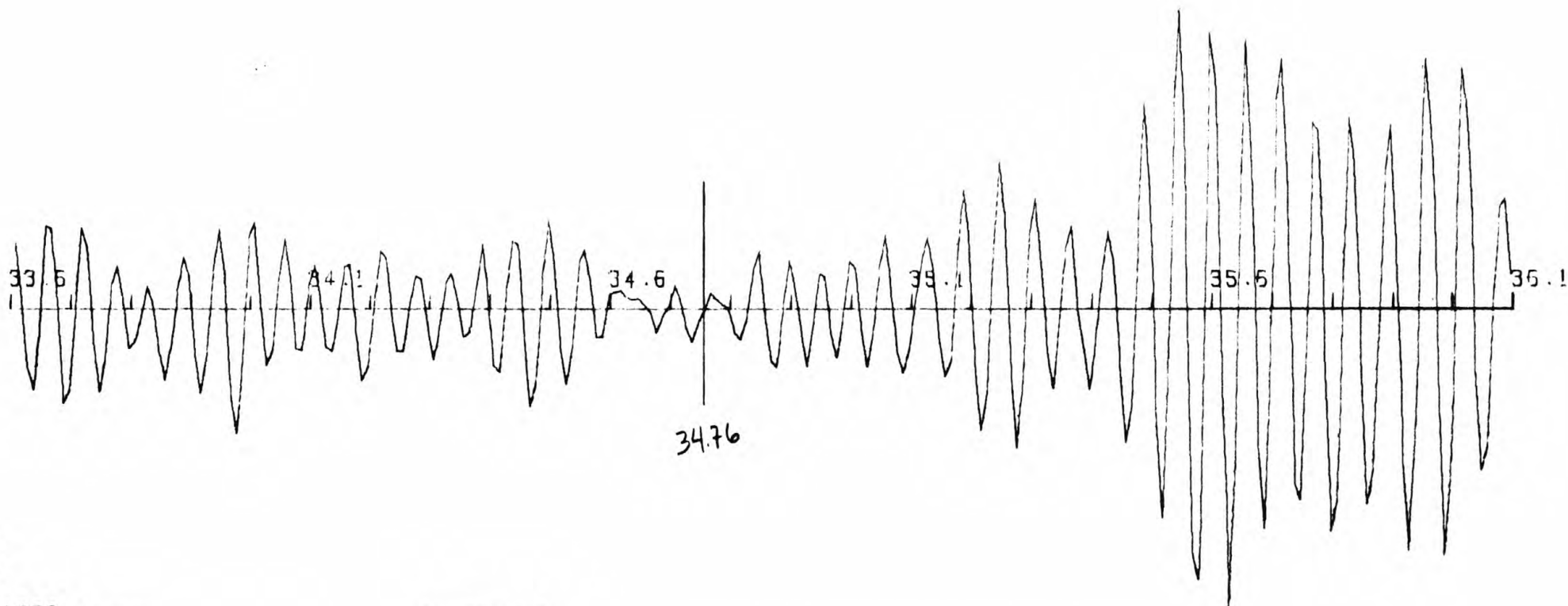
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 3

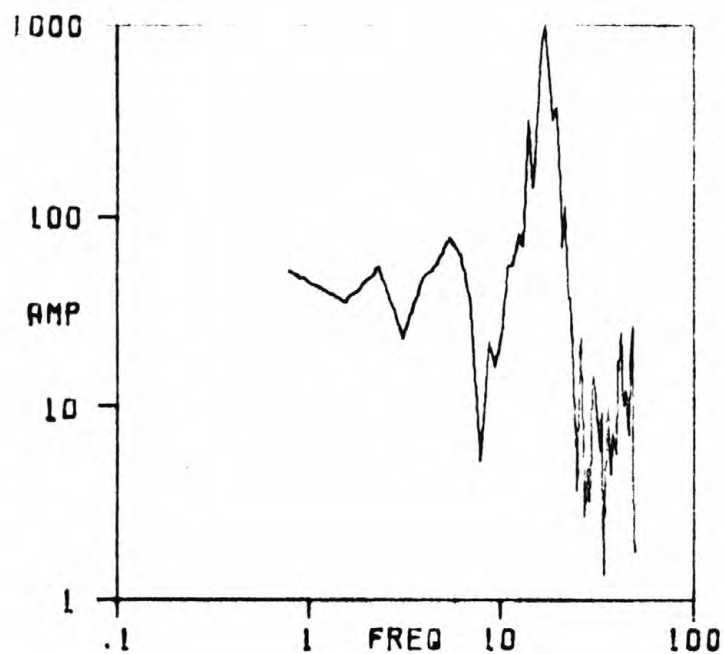
RECORDER LOCATION 516

DISTANCE FROM SHOT (KM) = -224.178

TSCALE (CM/SEC) = 10.0



449



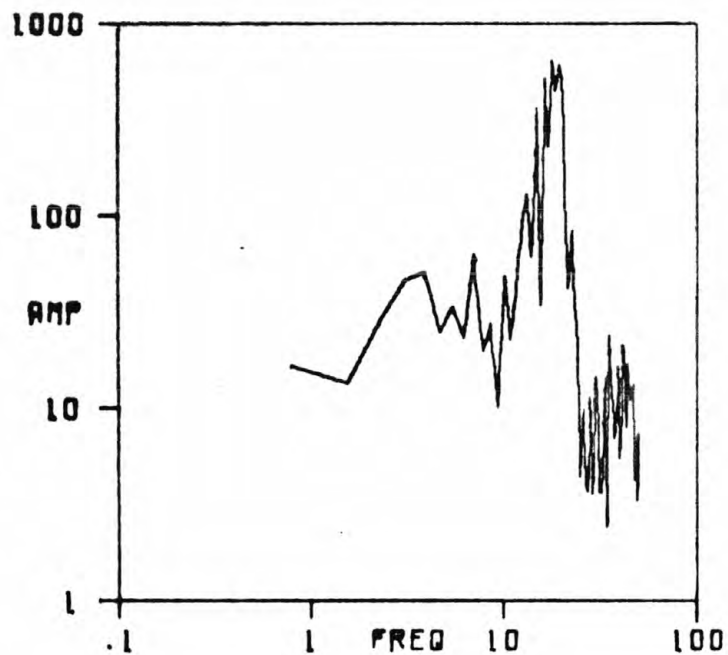
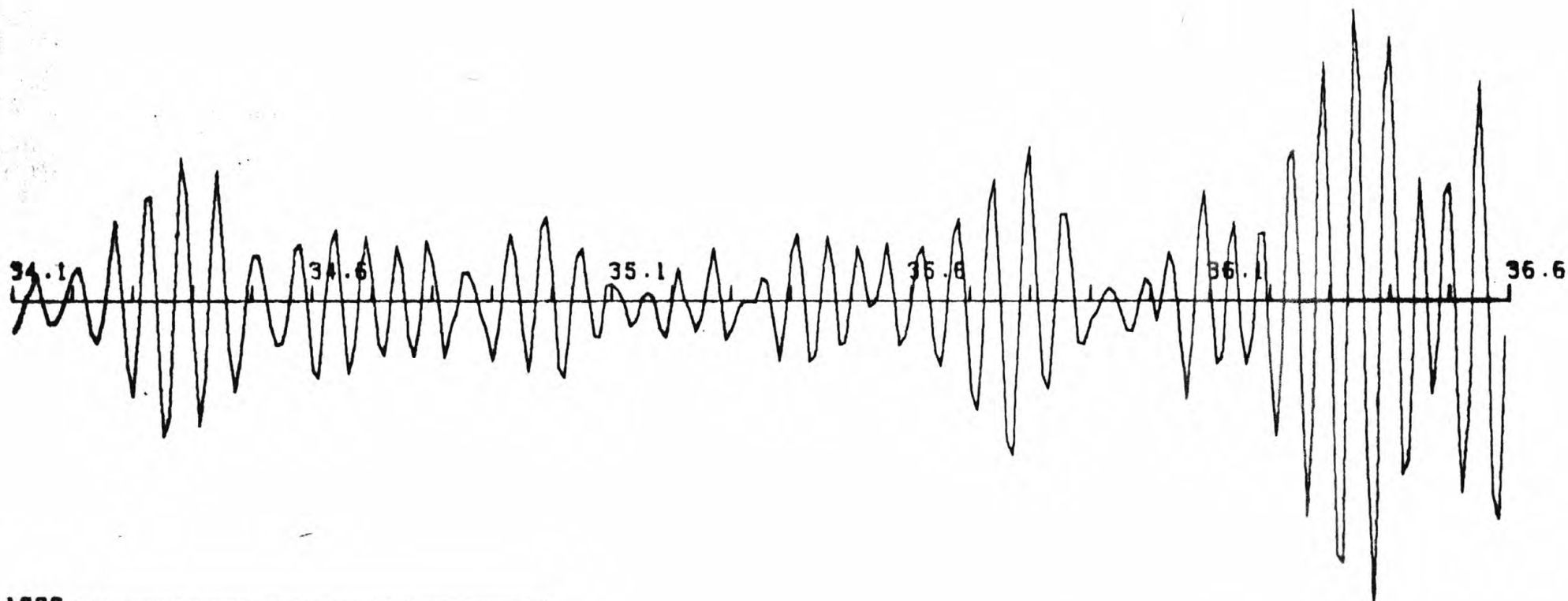
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 3

RECORDER LOCATION 518

DISTANCE FROM SHOT (KM) = -231.232

TSCALE (CM/SEC) = 10.0



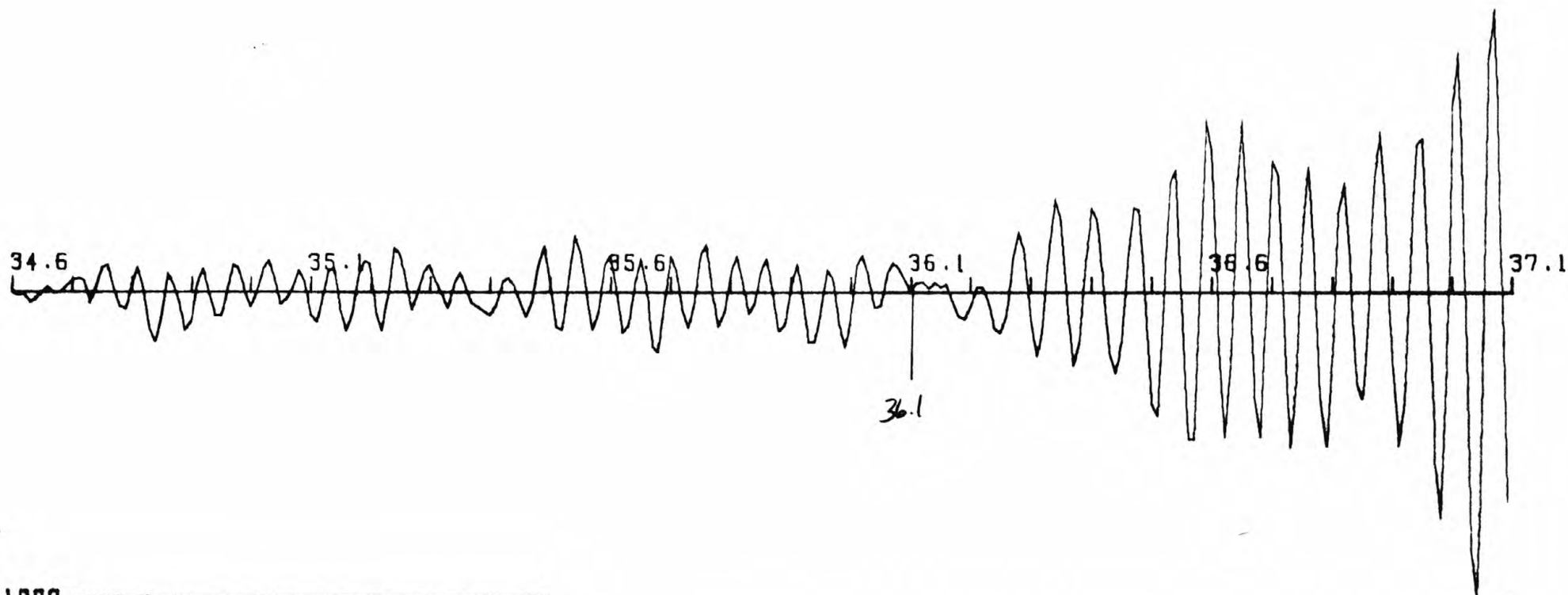
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 3

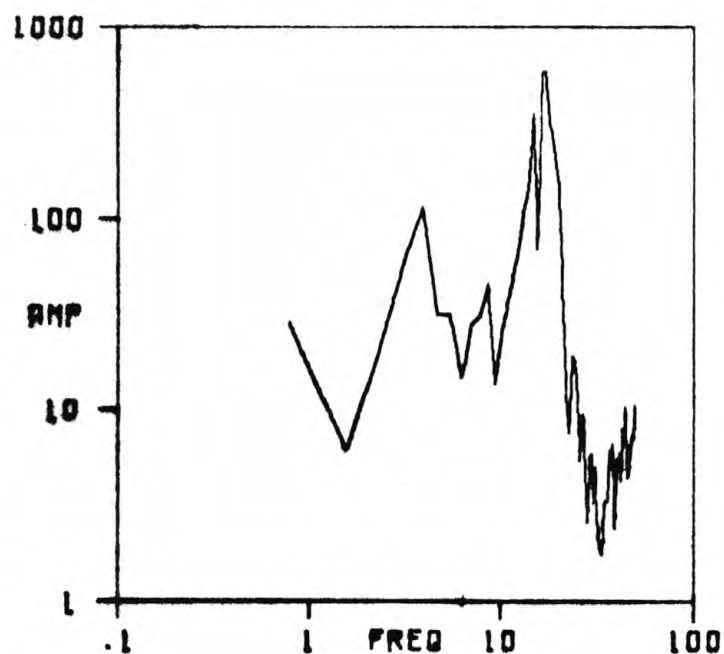
RECORDER LOCATION 519

DISTANCE FROM SHOT (KM) = -234.017

TSCALE (CM/SEC) = 10.0



451



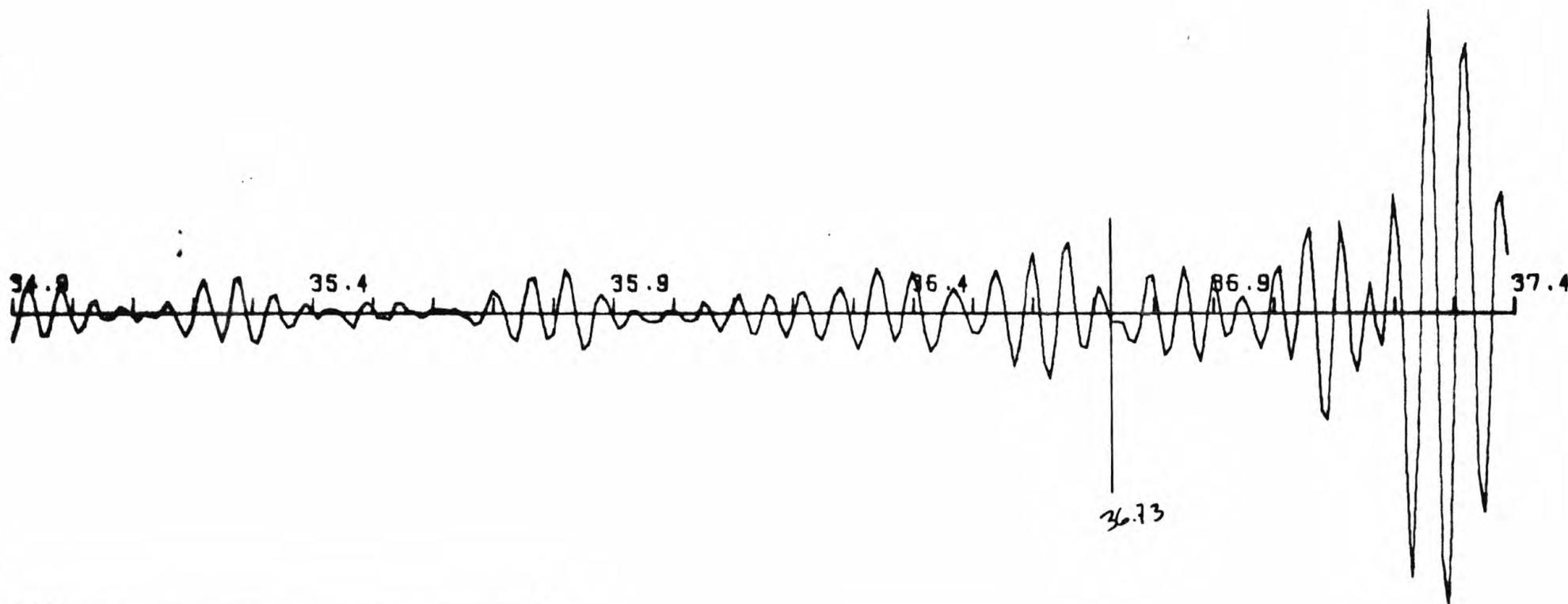
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 3

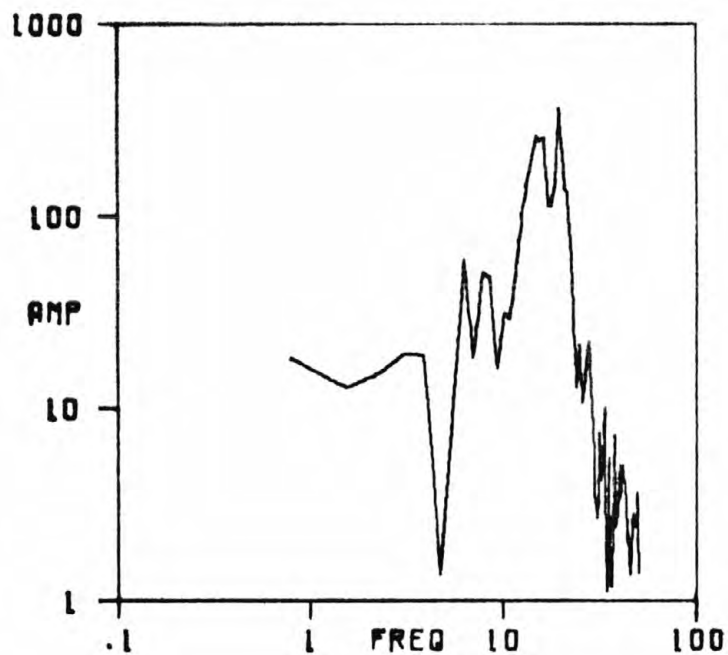
RECORDER LOCATION 521

DISTANCE FROM SHOT (KM) = -237.552

TSCALE (CM/SEC) = 10.0



452



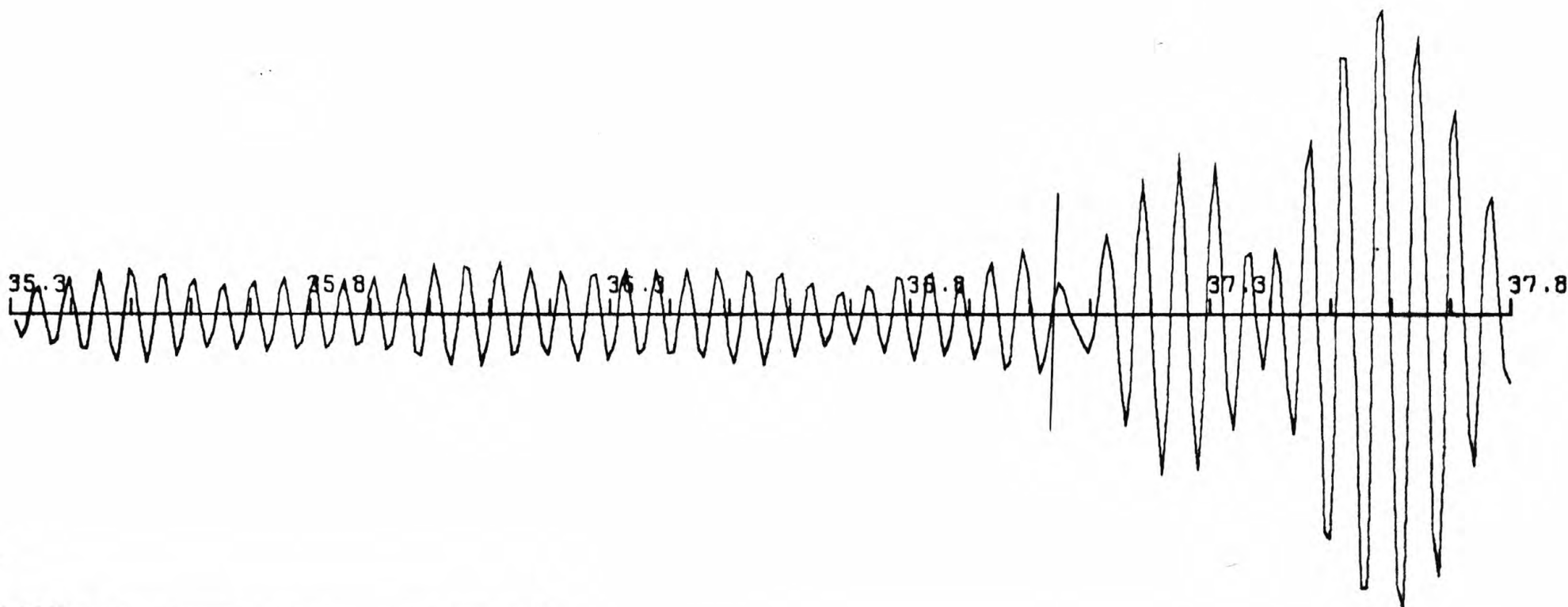
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 3

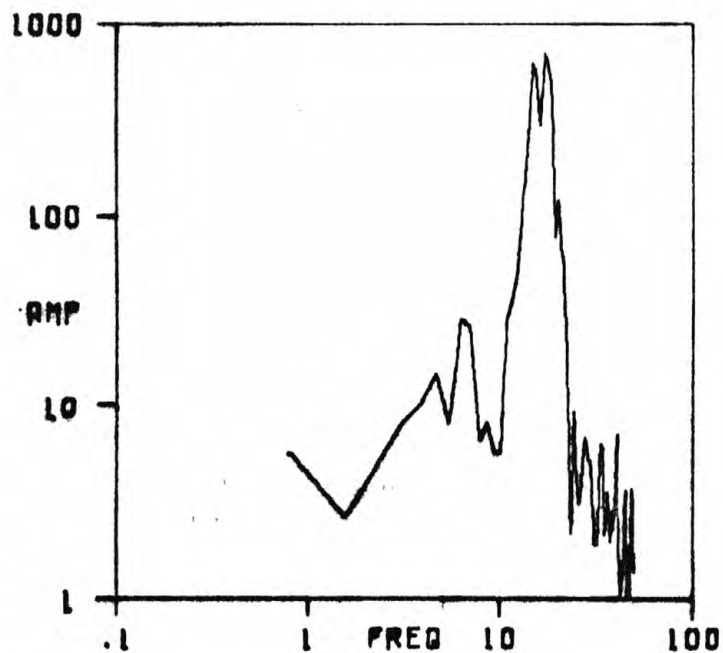
RECORDER LOCATION 522

DISTANCE FROM SHOT (KM) = -239.344

TSCALE (CM/SEC) = 10.0



453



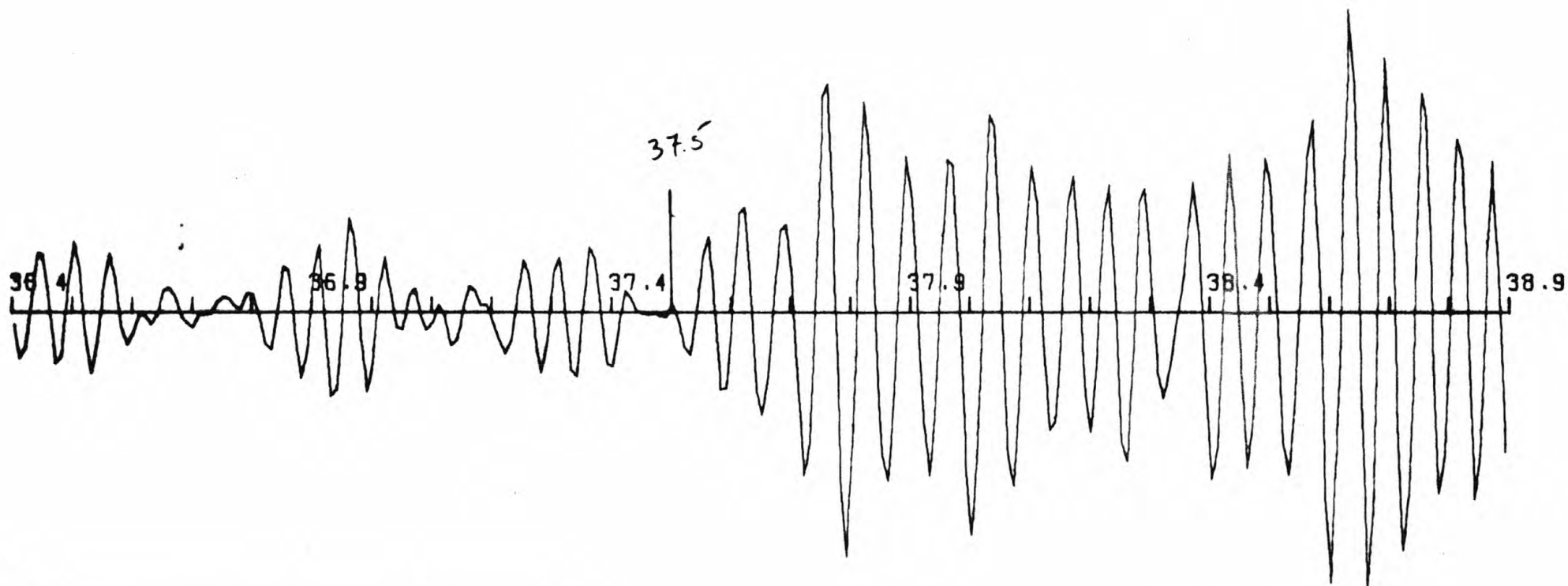
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 3

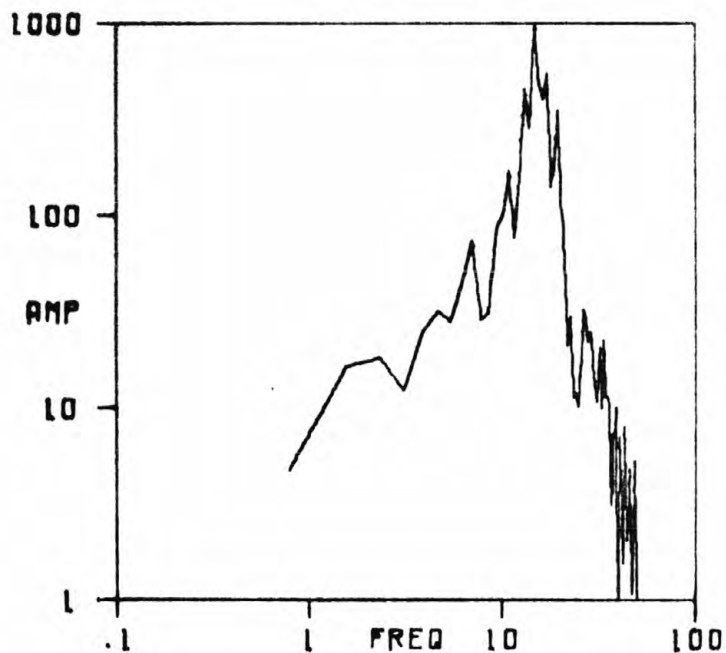
RECORDER LOCATION 523

DISTANCE FROM SHOT (KM) = -241.556

SCALE (CM/SEC) = 10.0



454



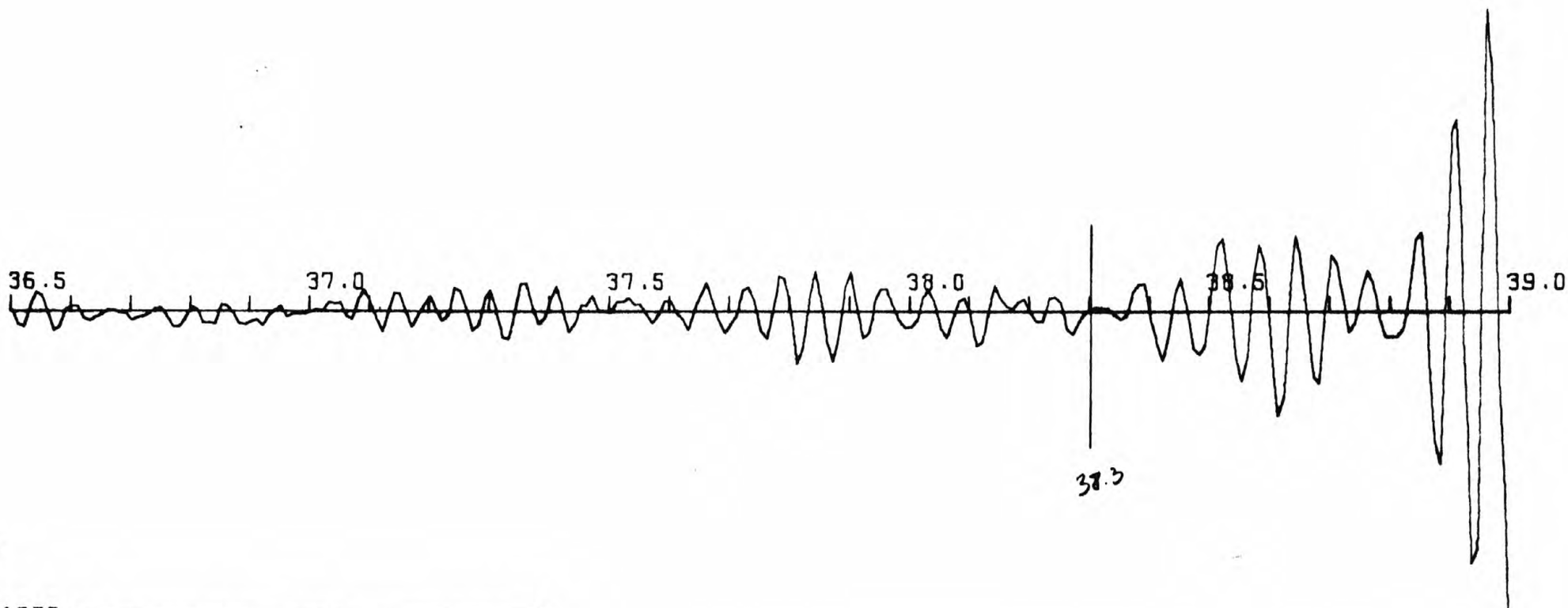
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 3

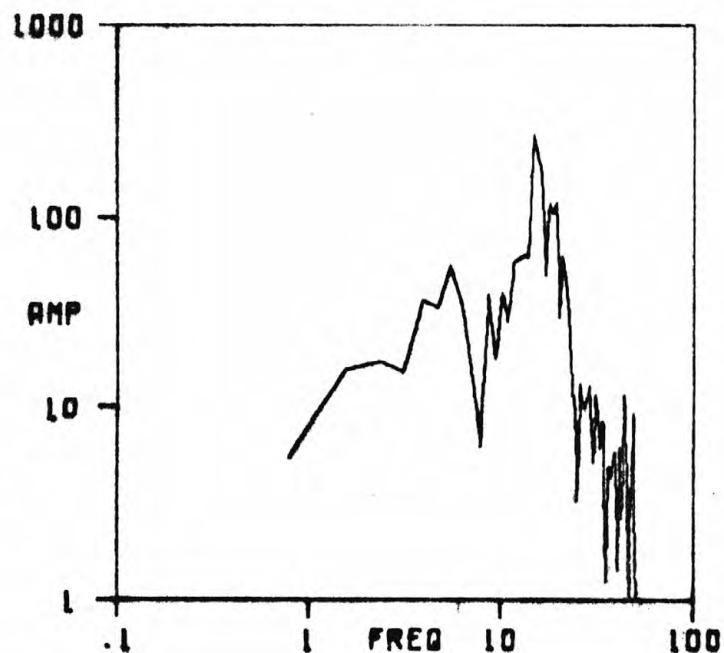
RECORDER LOCATION 527

DISTANCE FROM SHOT (KM) = -248.187

TSCALE (CM/SEC) = 10.0



455



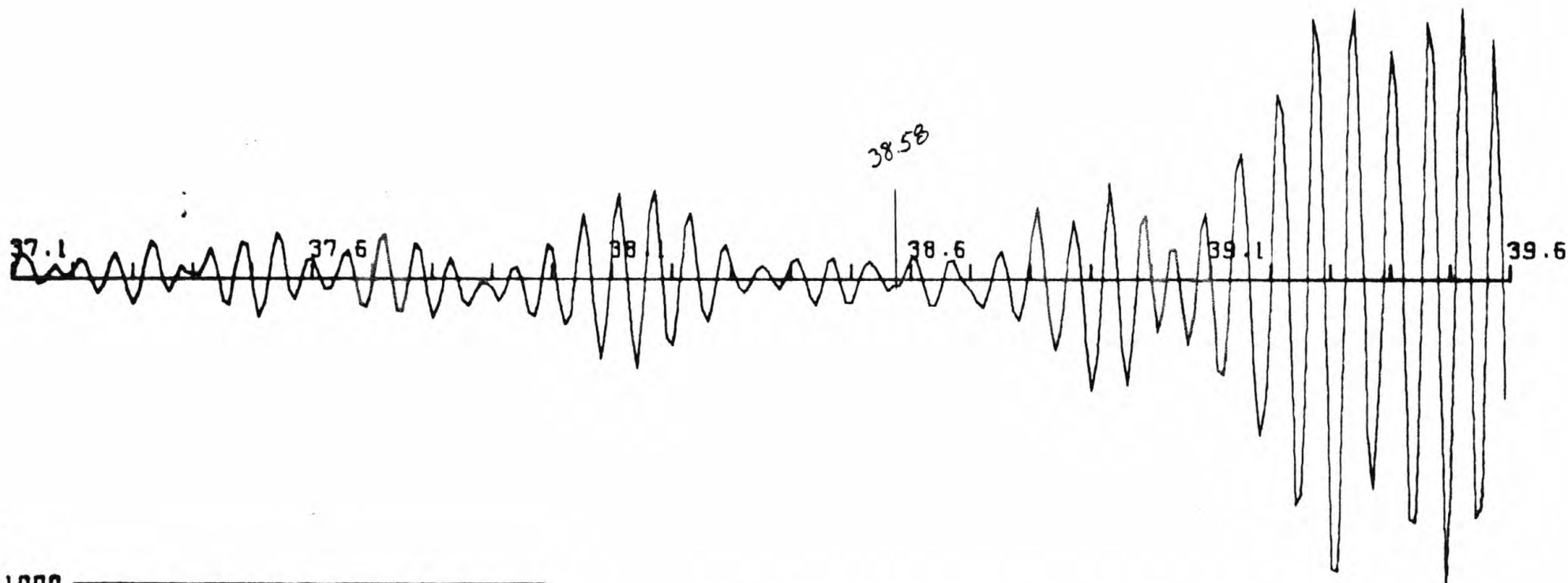
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 3

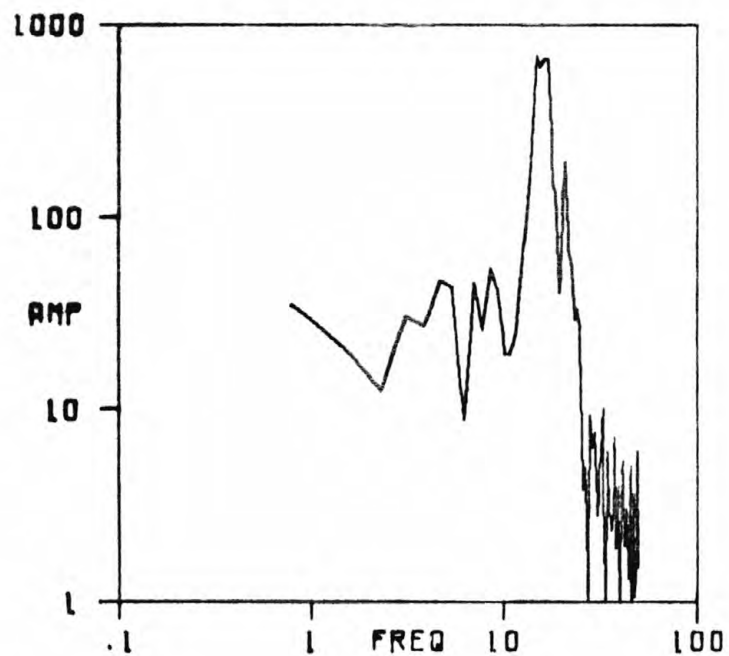
RECORDER LOCATION 530

DISTANCE FROM SHOT (KM) = -254.550

TS SCALE (CM/SEC) = 10.0



456



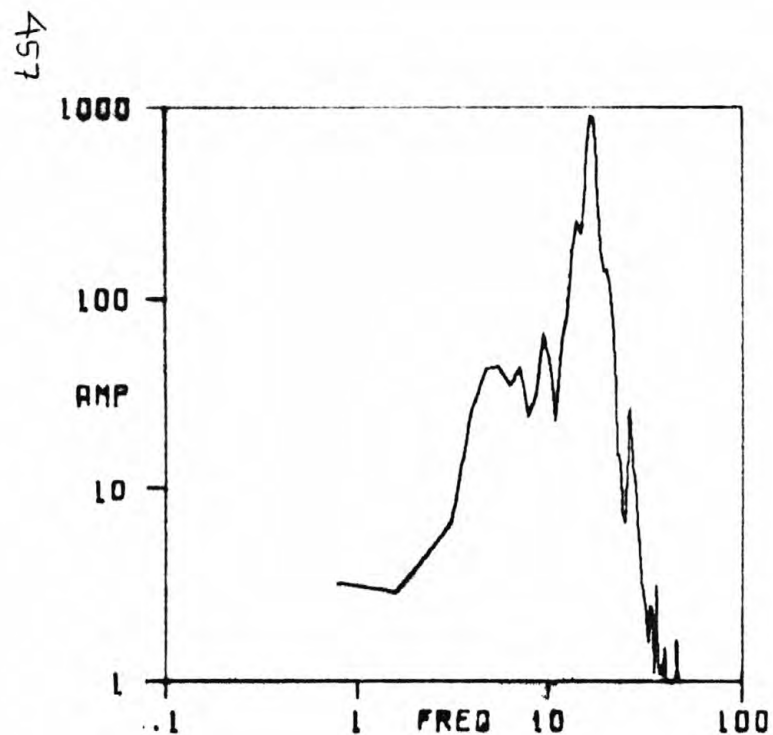
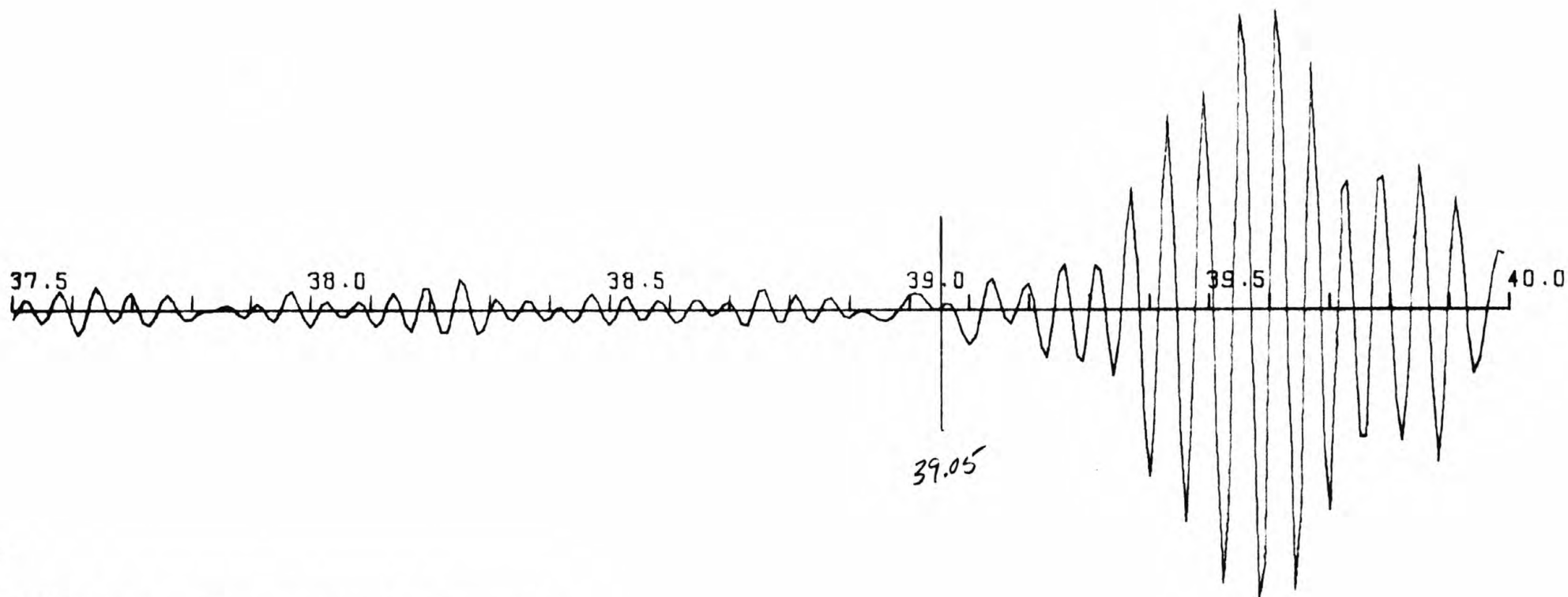
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 3

RECORDER LOCATION 352

DISTANCE FROM SHOT (KM) = -258.442

TSCALE (CM/SEC) = 10.0



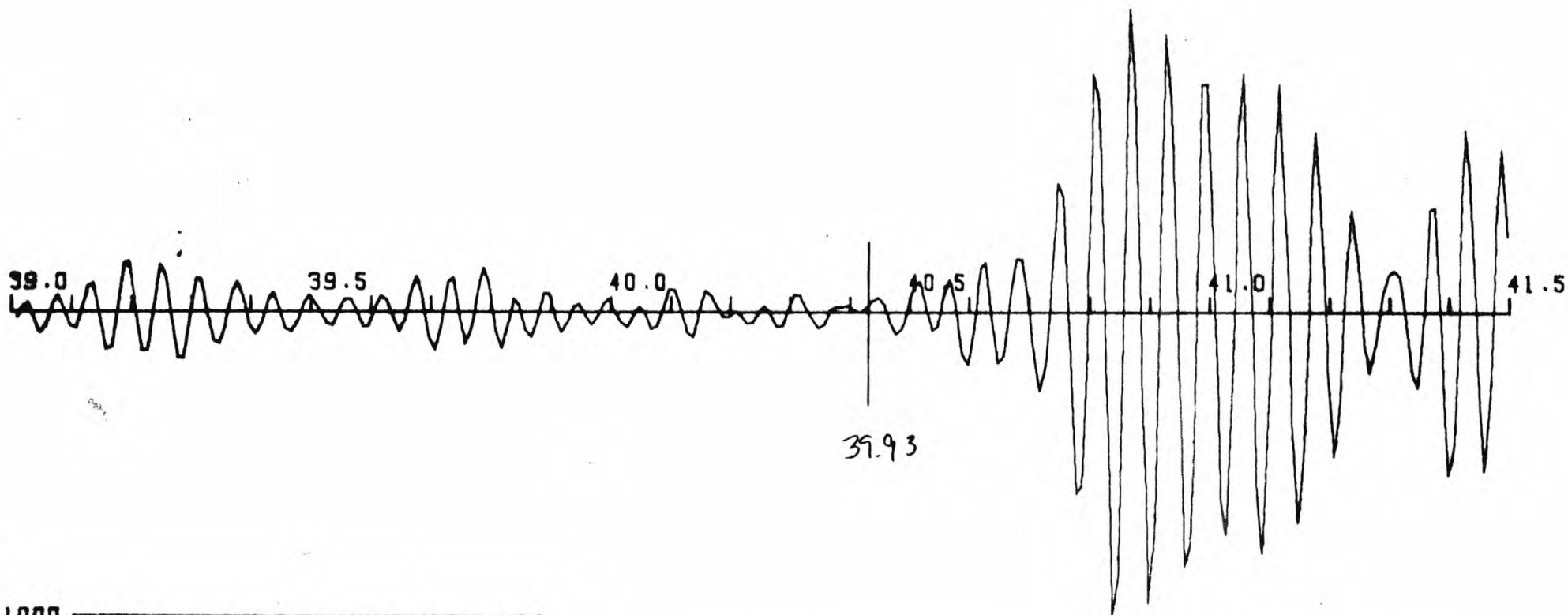
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 3

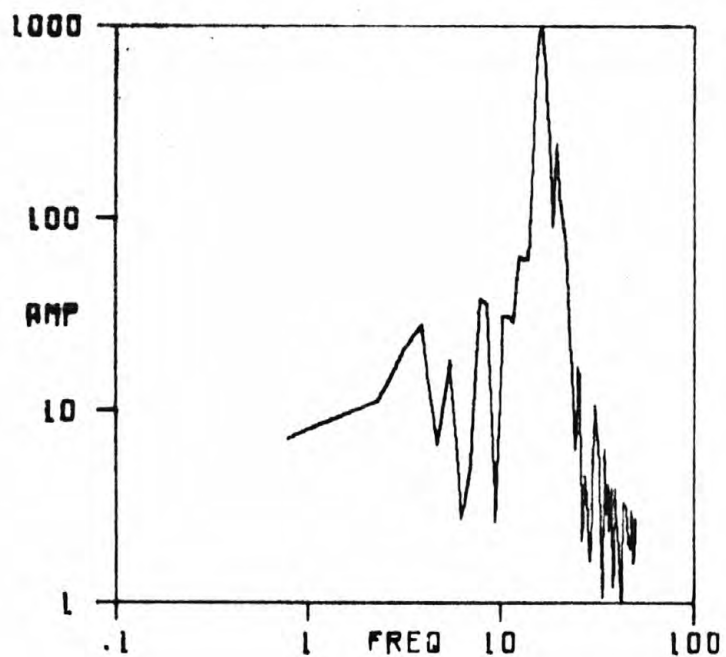
RECORDER LOCATION 533

DISTANCE FROM SHOT (KM) = -260.411

TS SCALE (CM/SEC) = 10.0



458



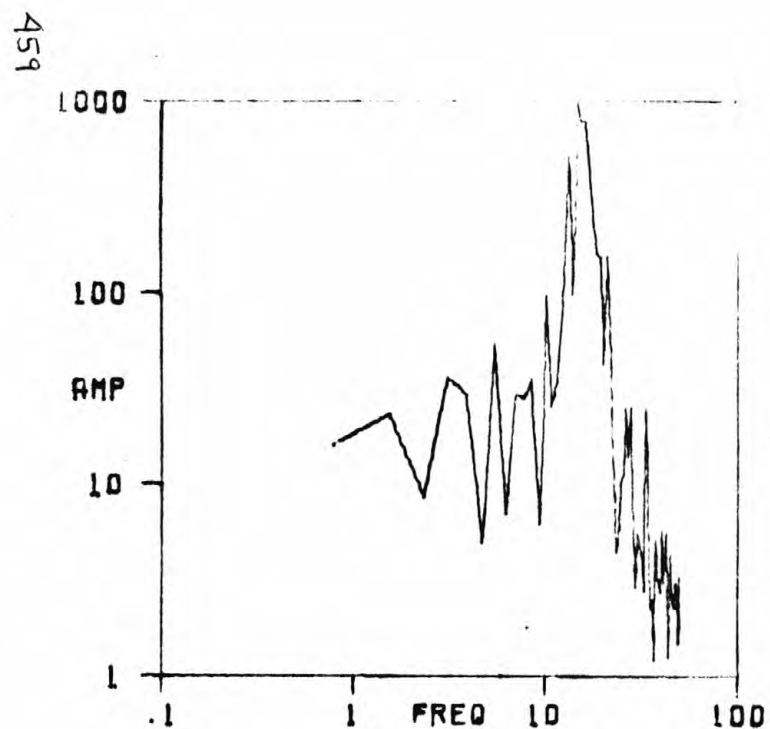
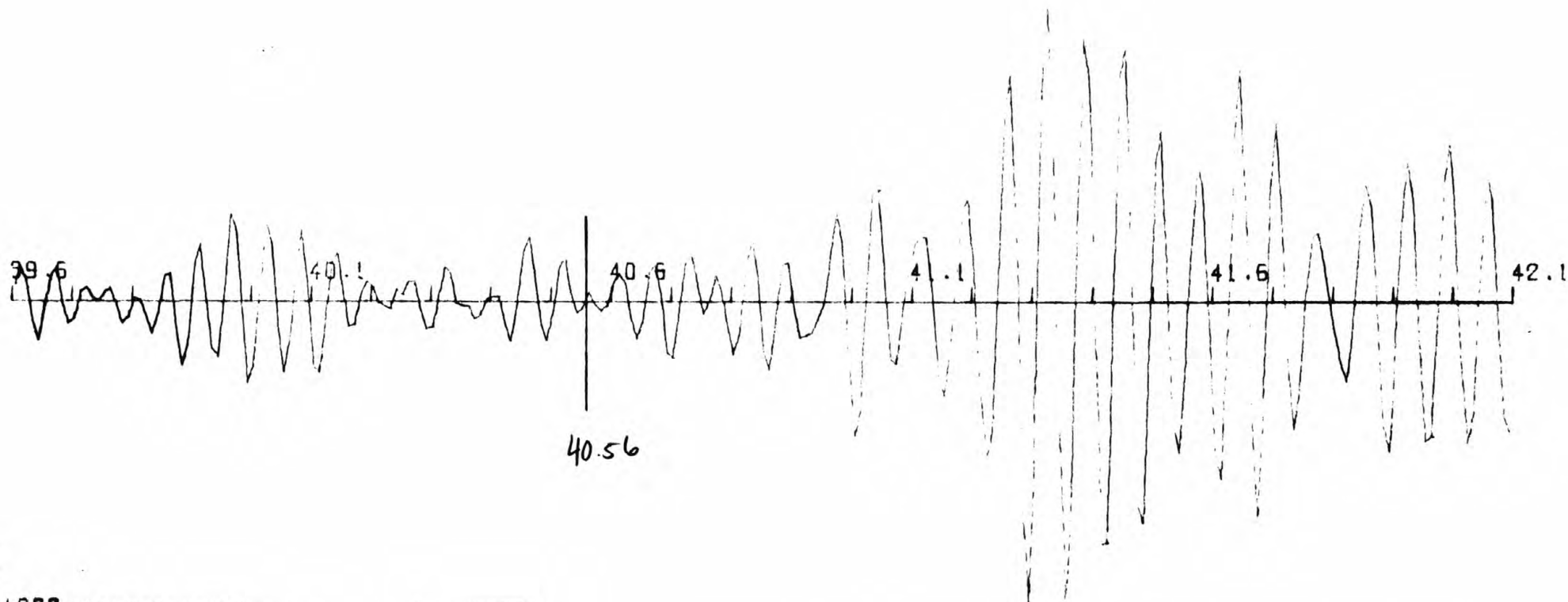
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 3

RECORDER LOCATION 537

DISTANCE FROM SHOT (KM) = -269.996

TSCALE (CM/SEC) = 10.0



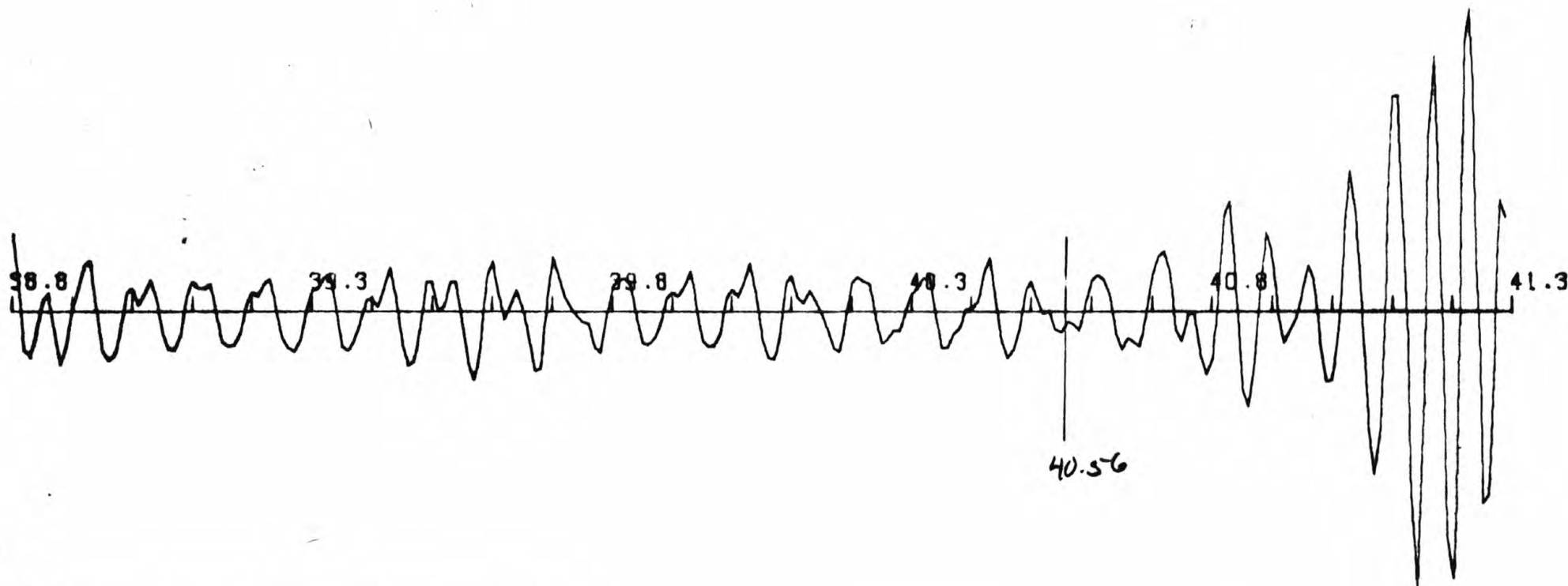
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 3

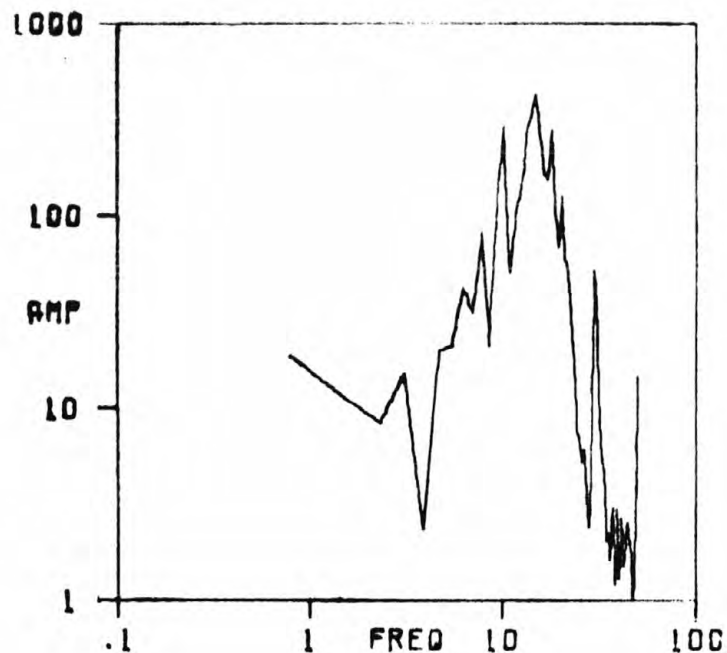
RECORDER LOCATION 539

DISTANCE FROM SHOT (KM) = -273.097

TSCALE (CM/SEC) = 10.0



466



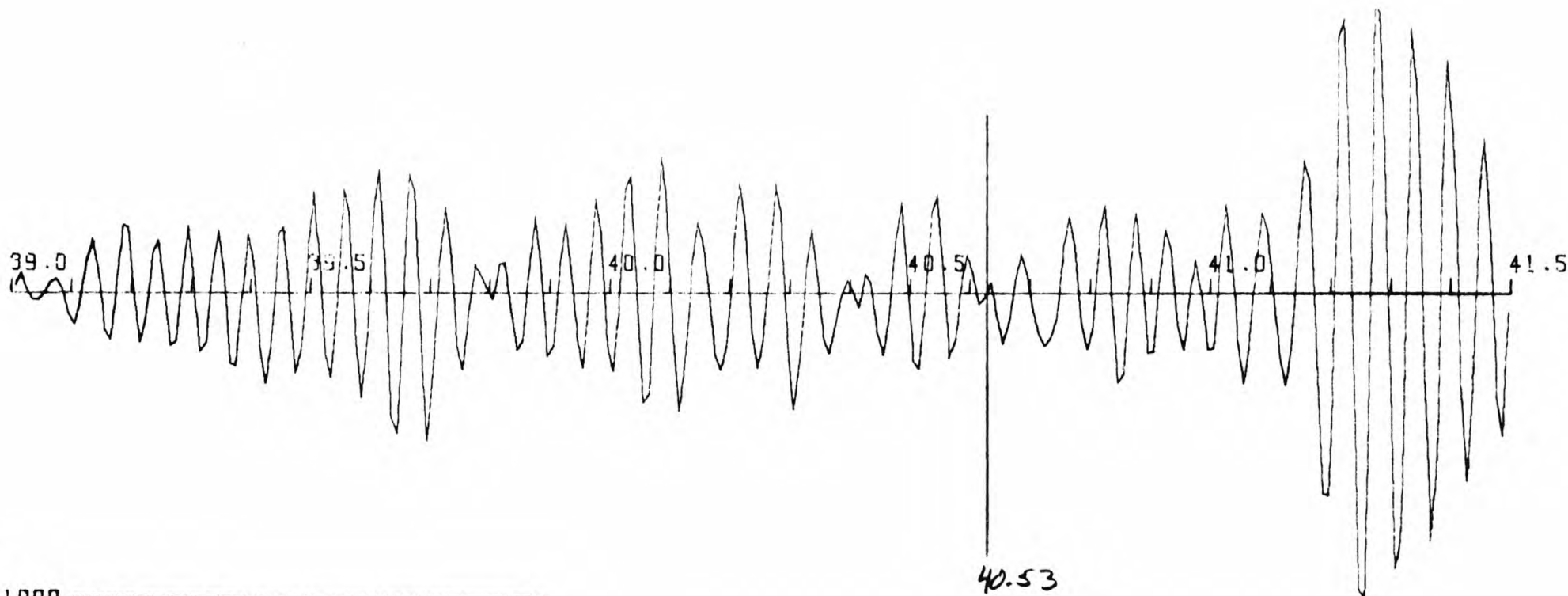
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 3

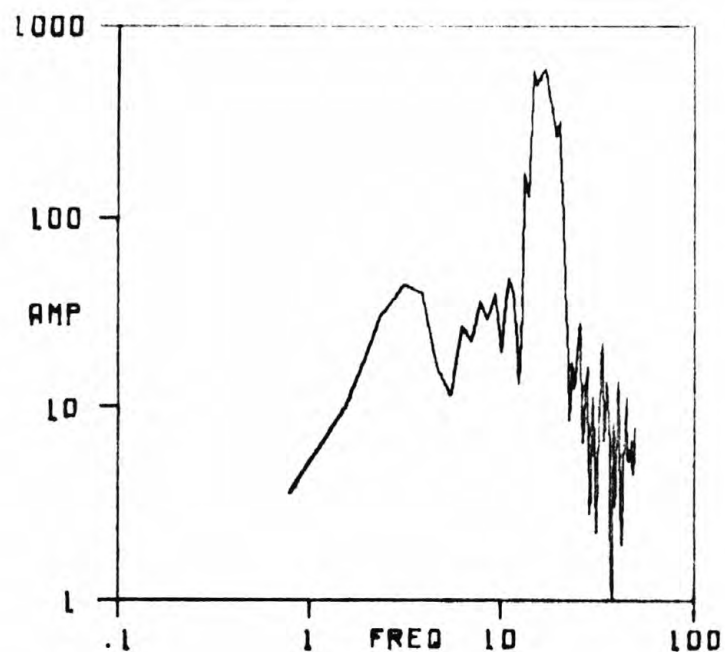
RECORDER LOCATION 540

DISTANCE FROM SHOT (KM) = -274.217

TSCALE (CM/SEC) = 10.0



461



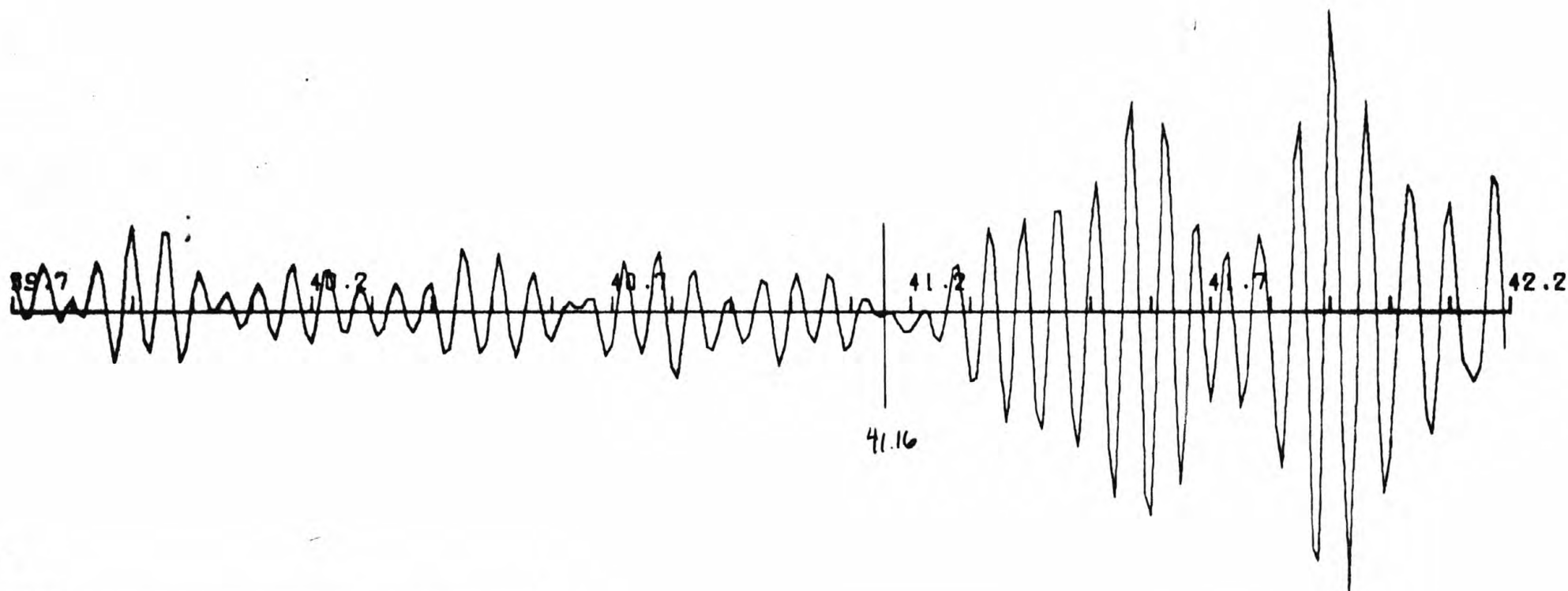
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 3

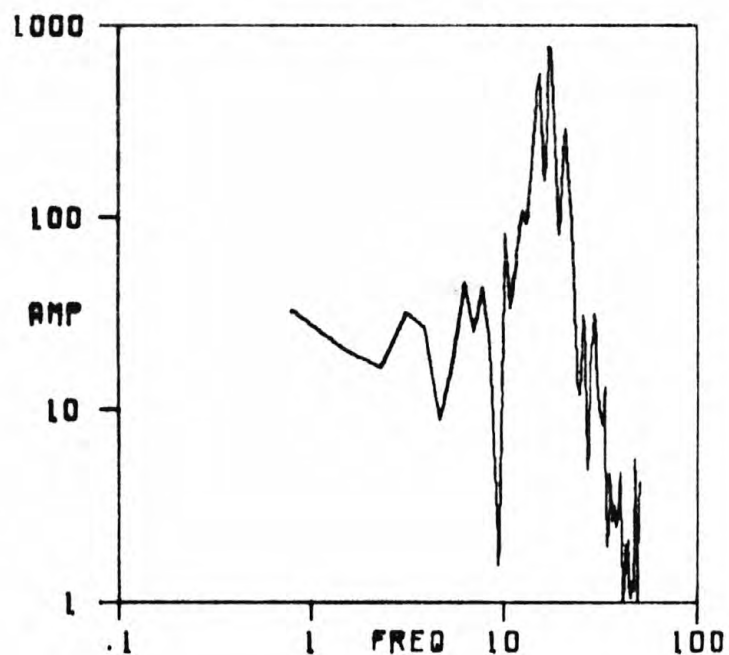
RECORDER LOCATION 541

DISTANCE FROM SHOT (KM) = -275.863

TSCALE (CM/SEC) = 10.0



462



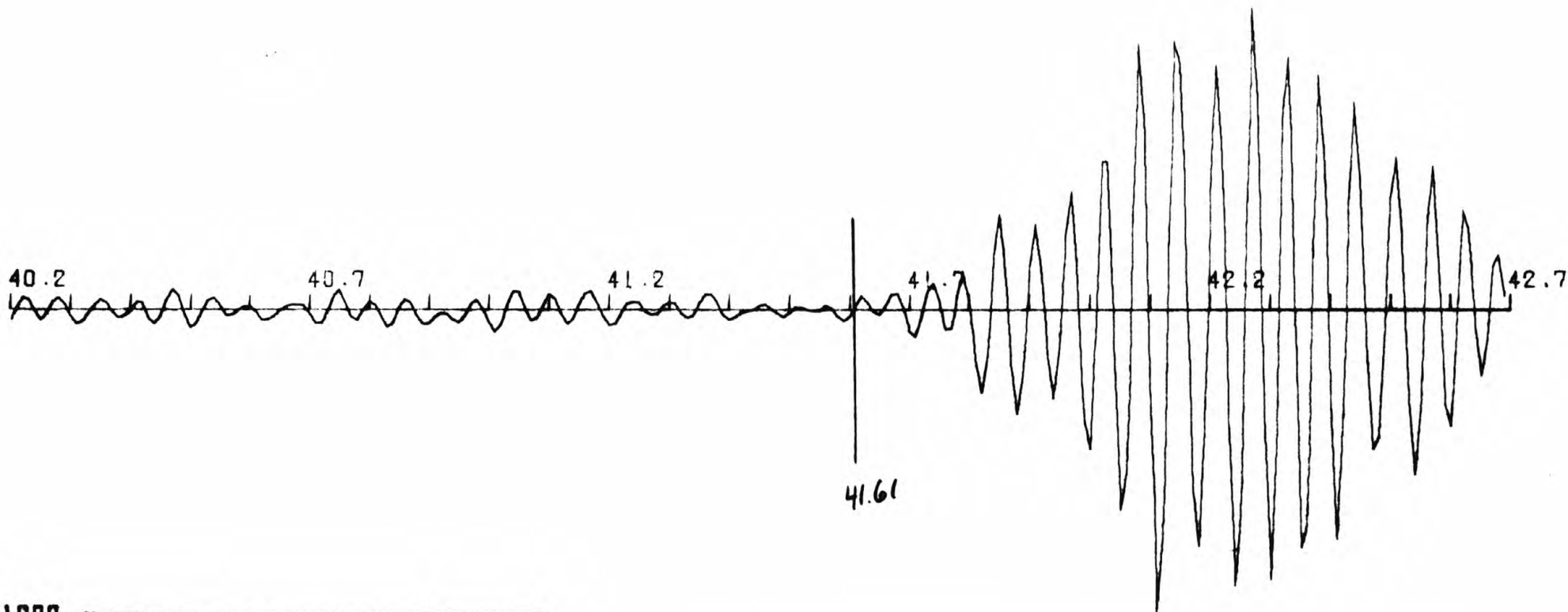
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 3

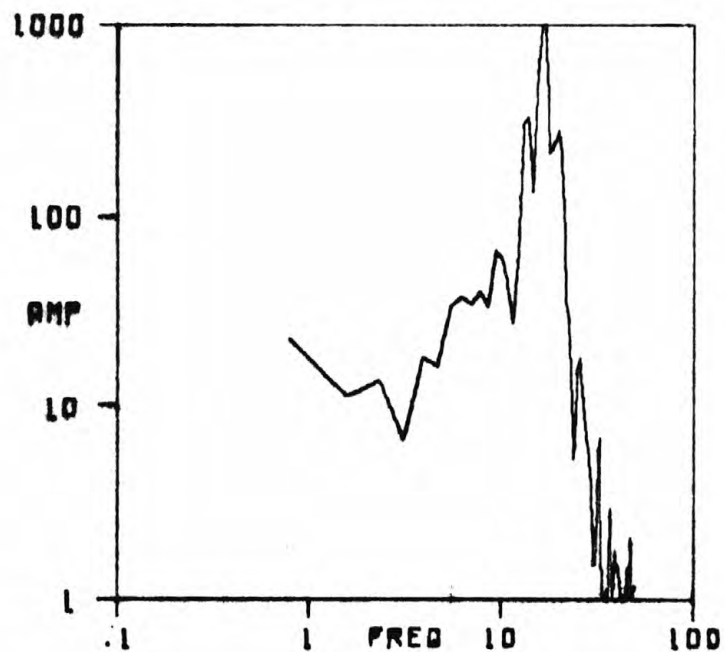
RECORDER LOCATION 545

DISTANCE FROM SHOT (KM) = -279.610

TSCALE (CM/SEC) = 10.0



463



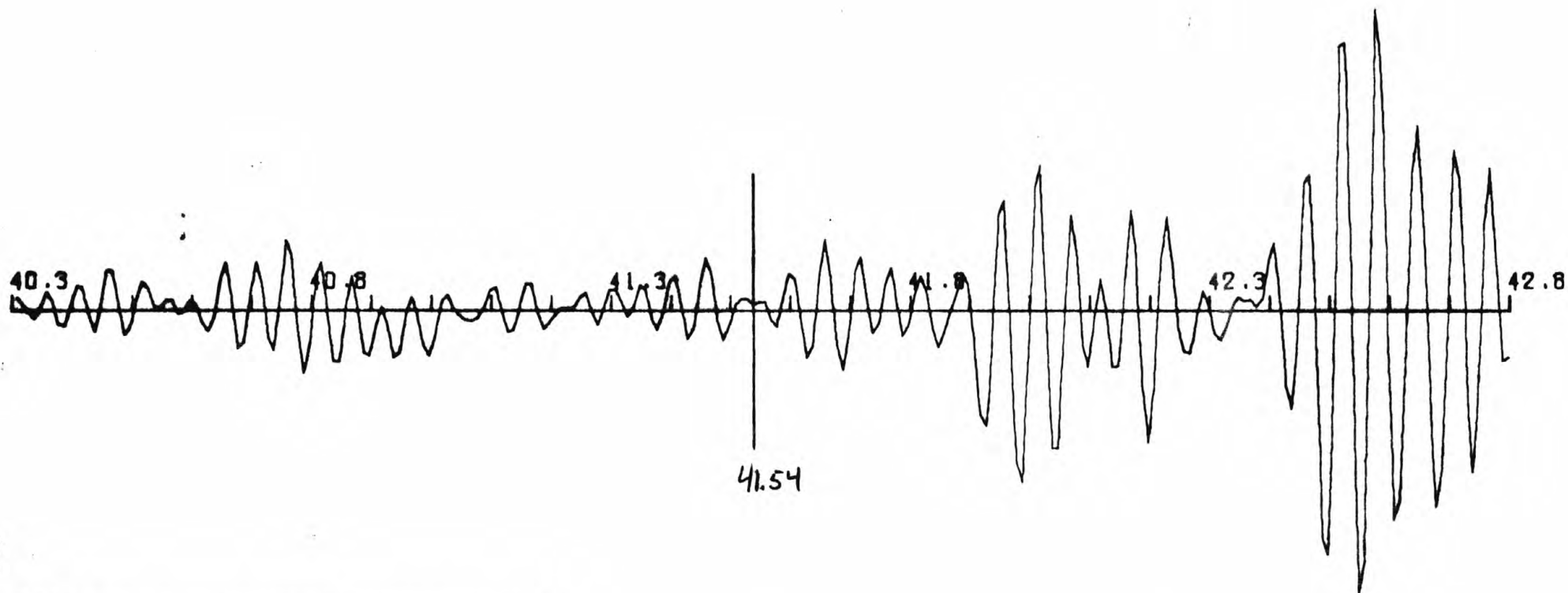
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 3

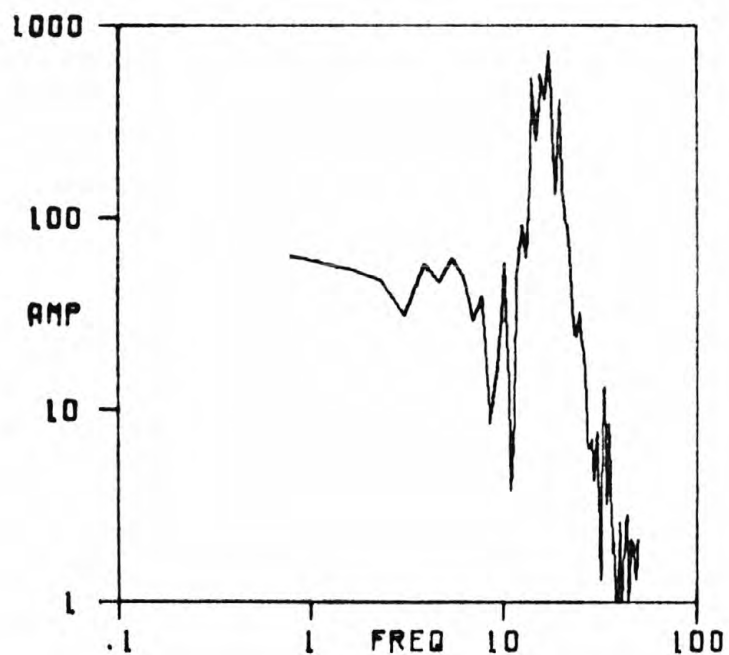
RECORDER LOCATION 548

DISTANCE FROM SHOT (KM) = -282.734

TSCALE (CM/SEC) = 10.0



Ag4



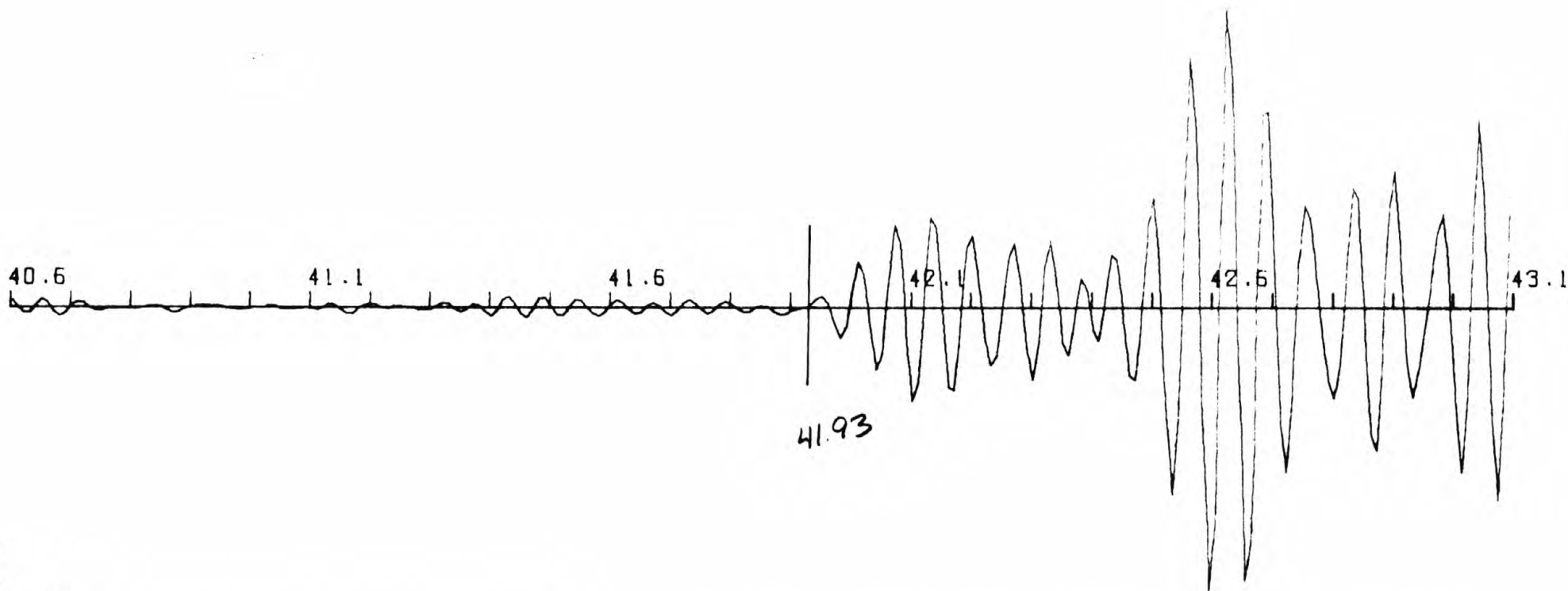
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 3

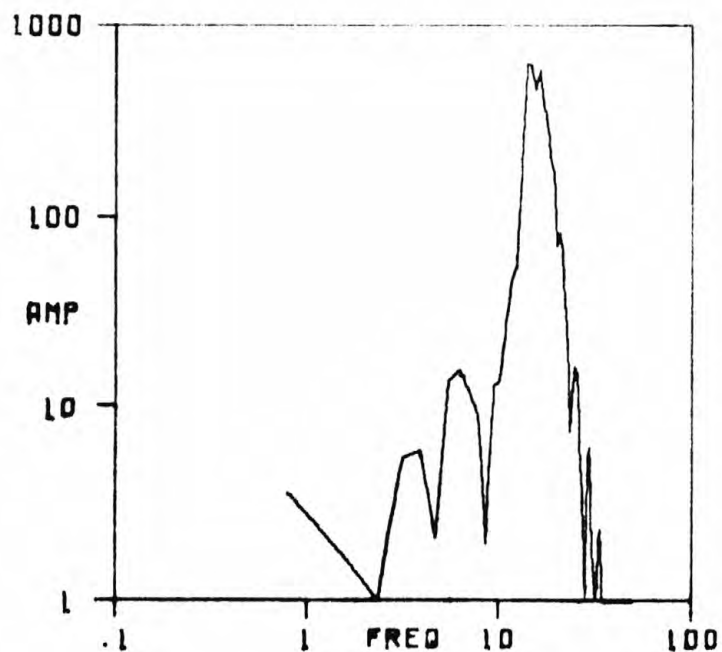
RECORDER LOCATION 549

DISTANCE FROM SHOT (KM) = -283.436

TSCALE (CM/SEC) = 10.0



465



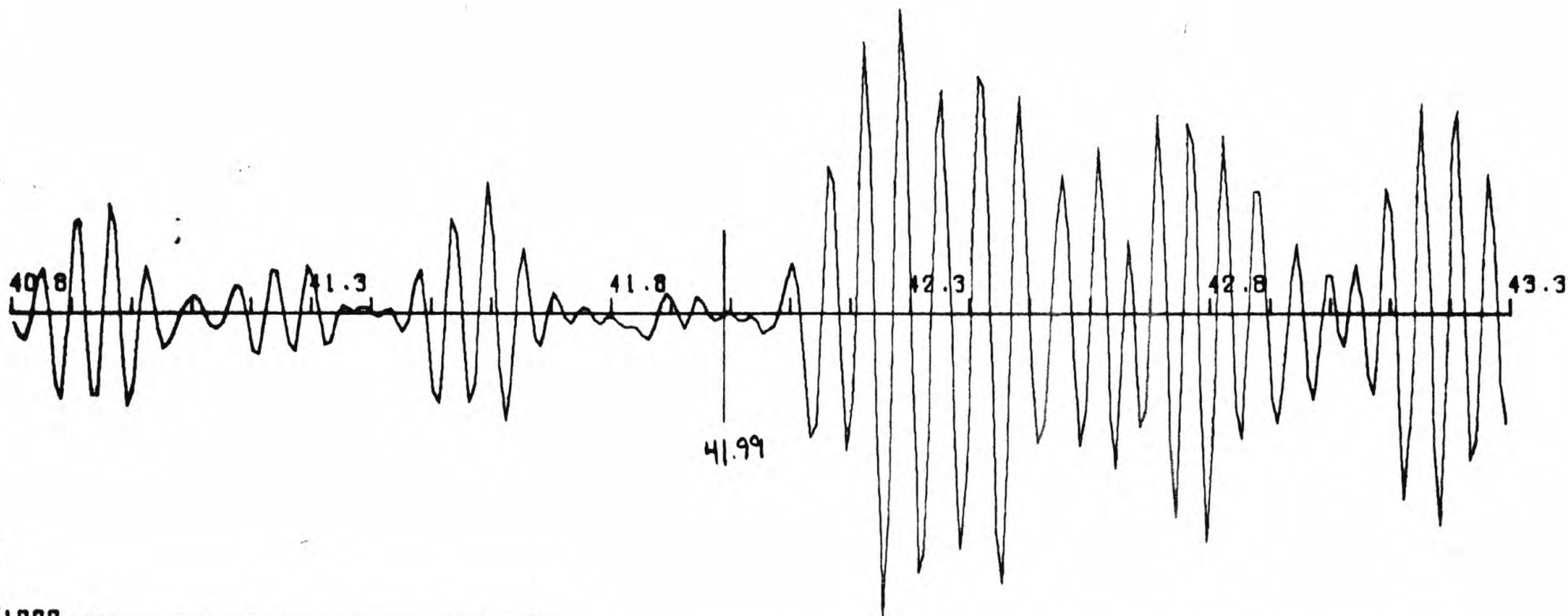
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 3

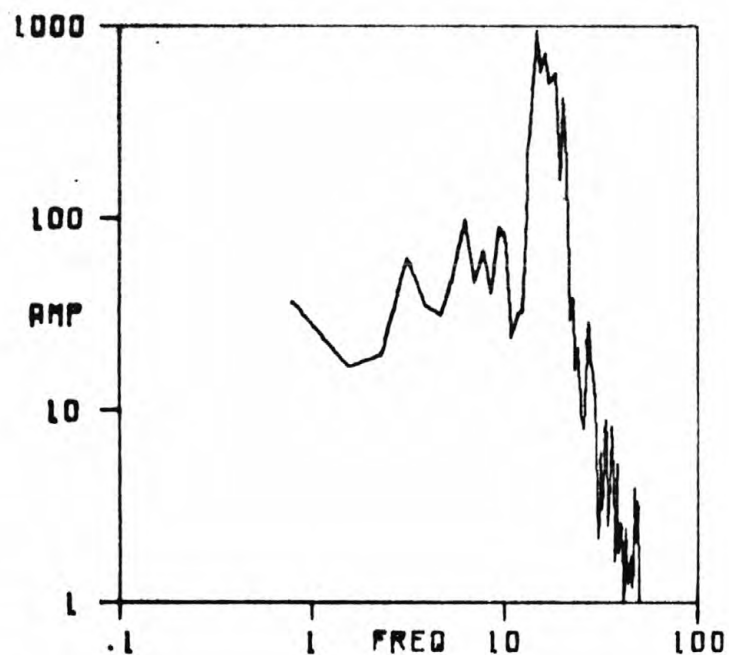
RECORDER LOCATION 550

DISTANCE FROM SHOT (KM) = -285.267

TSCALE (CM/SEC) = 10.0



466



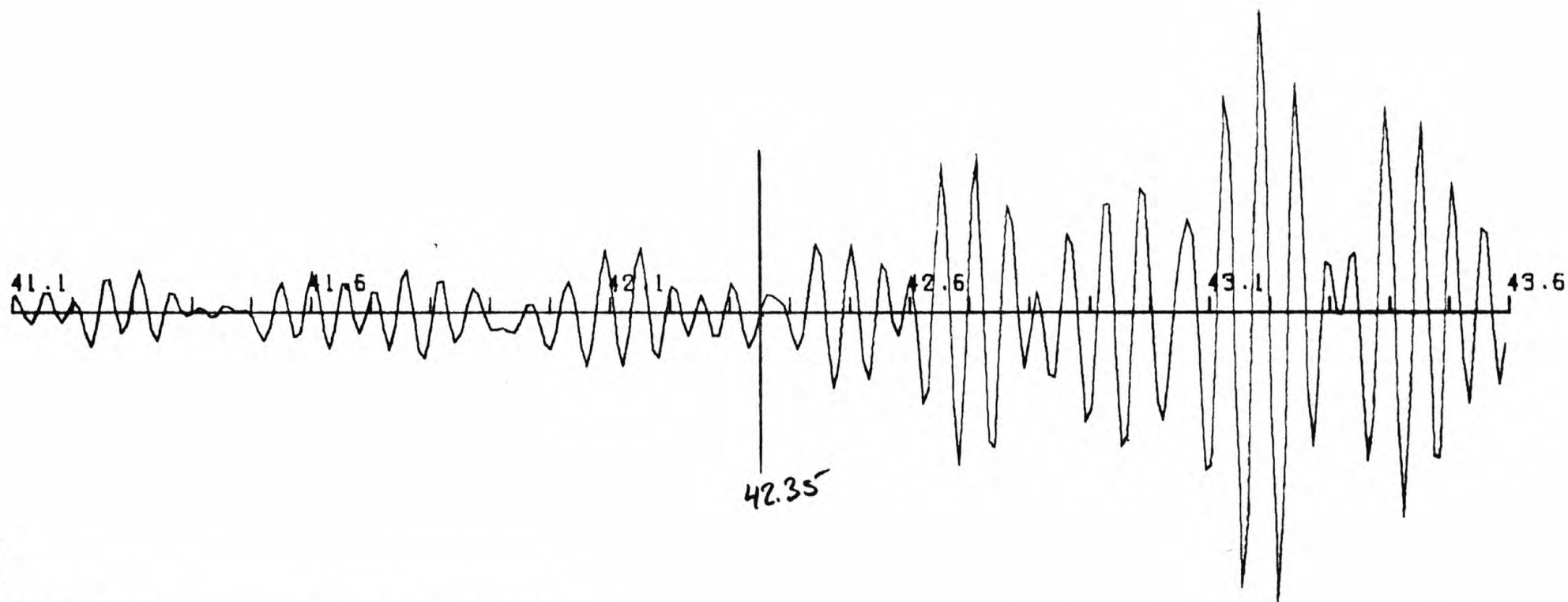
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 3

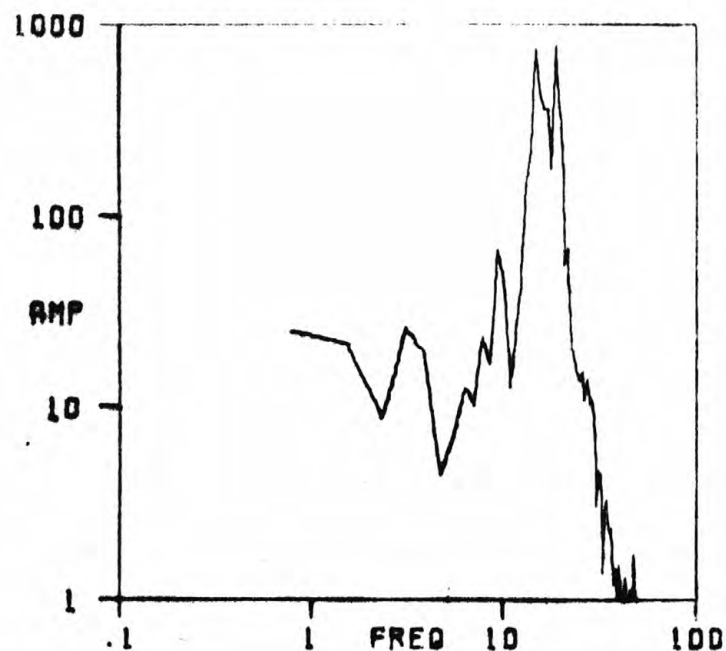
RECORDER LOCATION 551

DISTANCE FROM SHOT (KM) = -286.710

TSCALE (CM/SEC) = 10.0



467



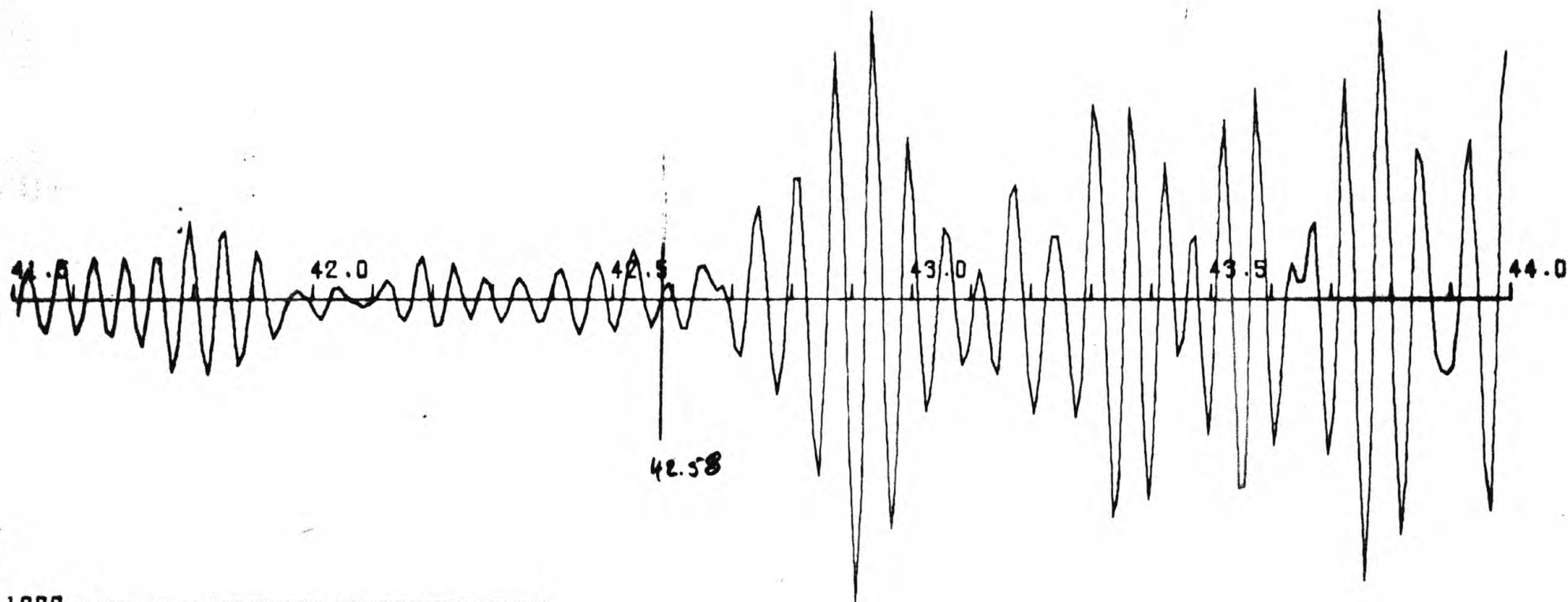
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 3

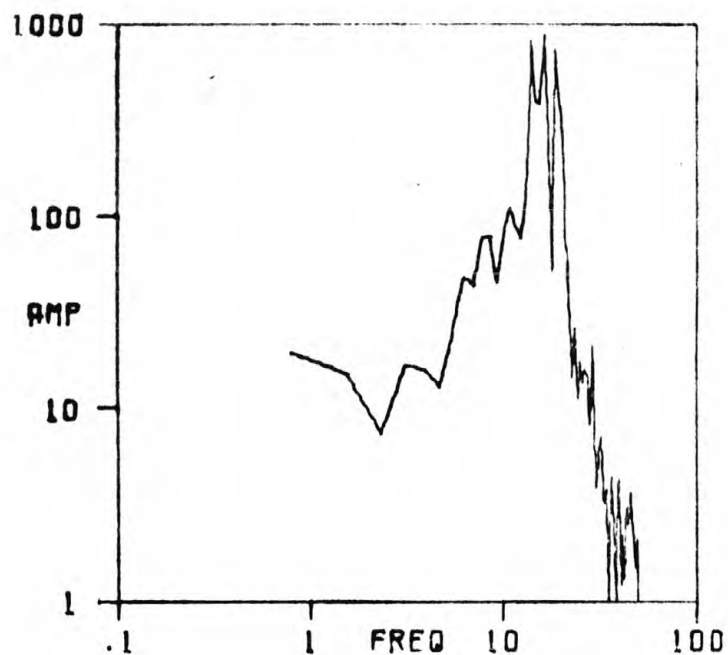
RECORDER LOCATION 552

DISTANCE FROM SHOT (KM) = -288.323

TS SCALE (CM/SEC) = 10.0



468



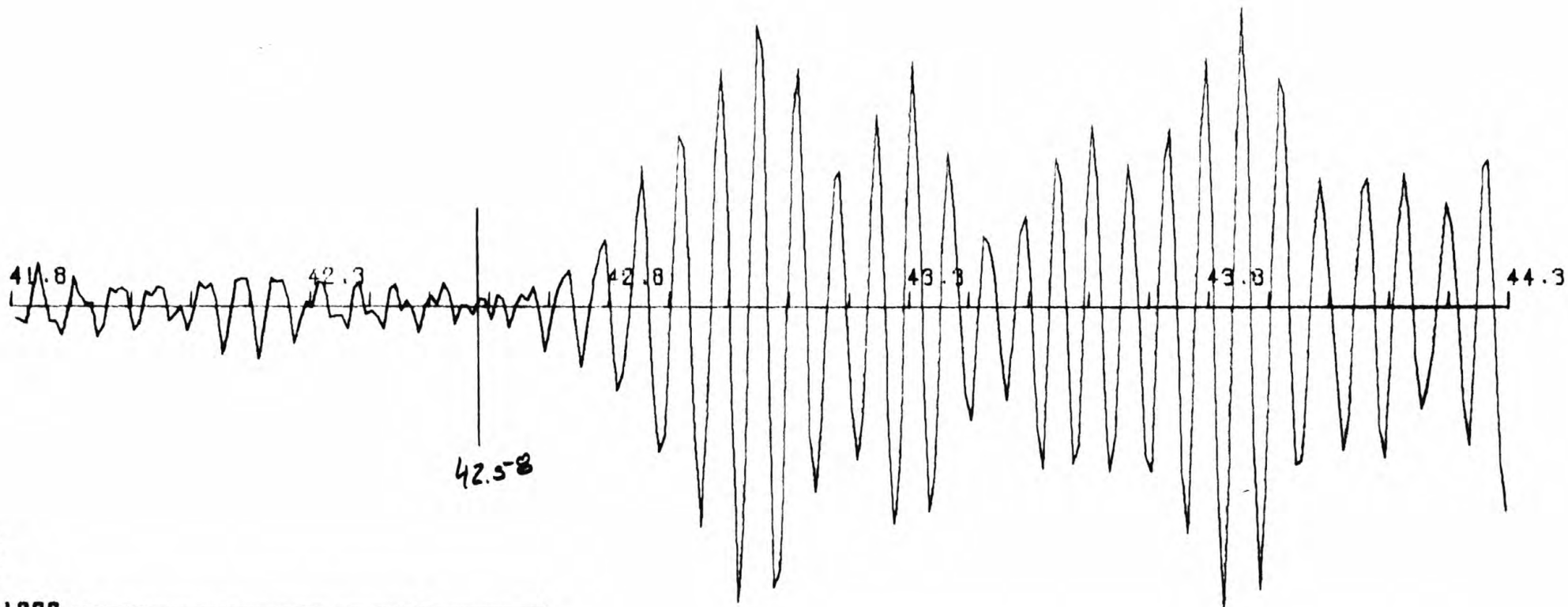
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 3

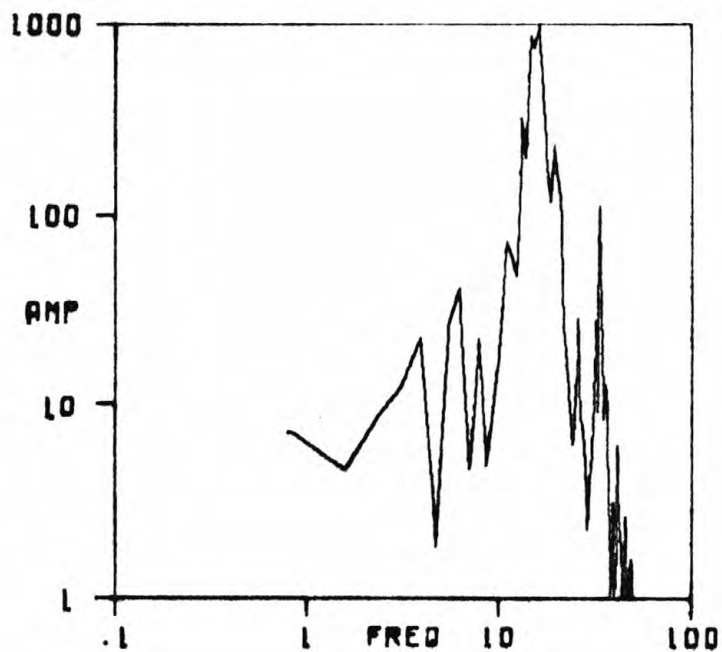
RECORDER LOCATION 553

DISTANCE FROM SHOT (KM) = -290.678

TSCALE (CM/SEC) = 10.0



469



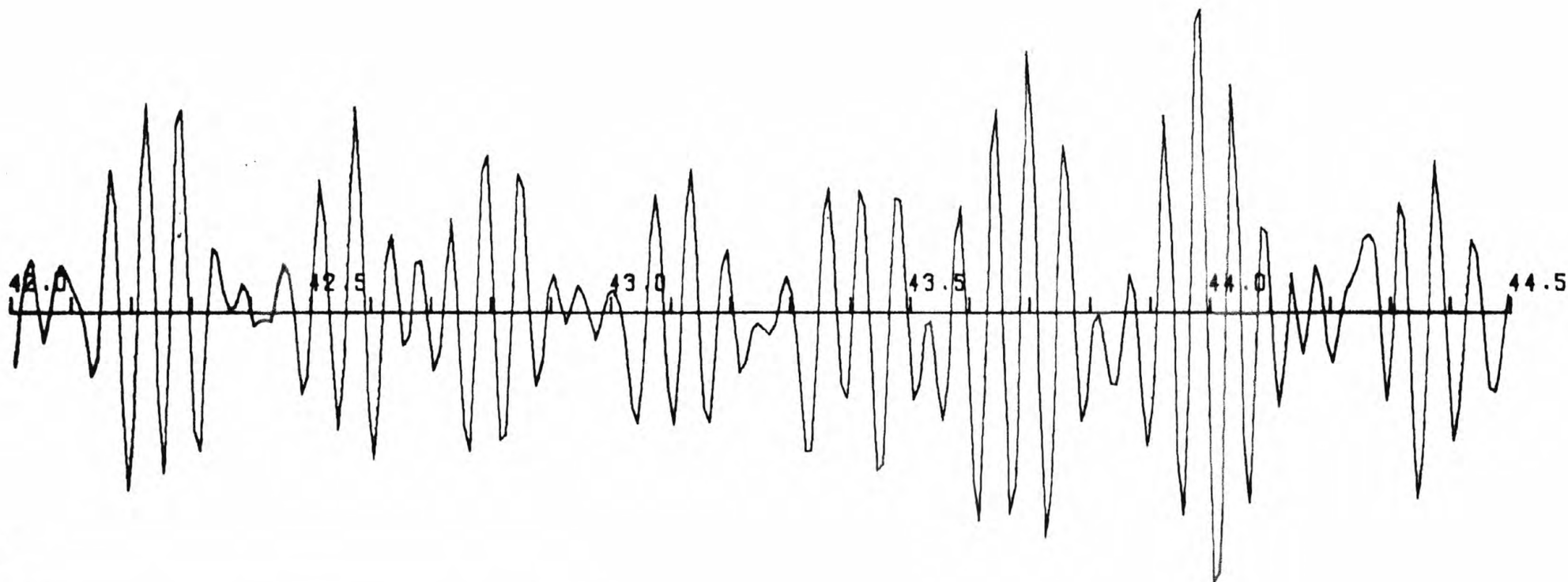
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 3

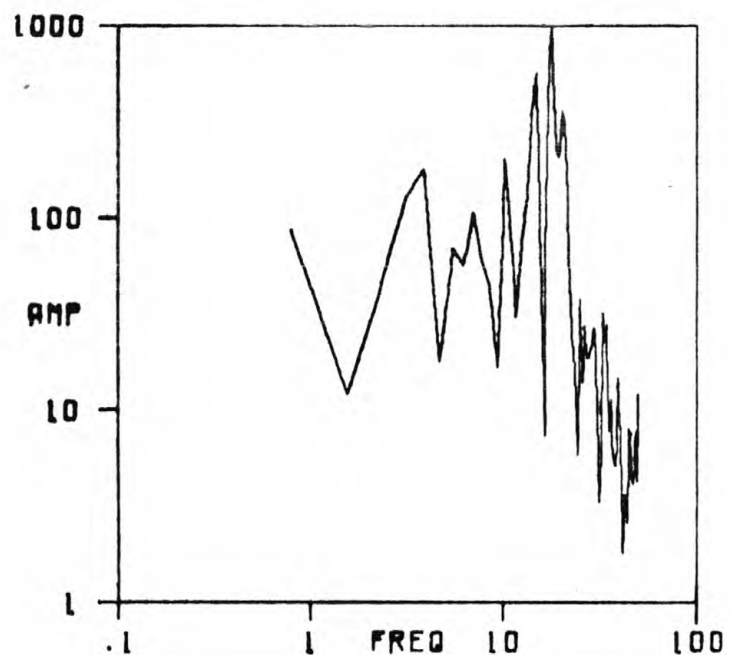
RECORDER LOCATION 554

DISTANCE FROM SHOT (KM) = -292.479

TSCALE (CM/SEC) = 10.0



470



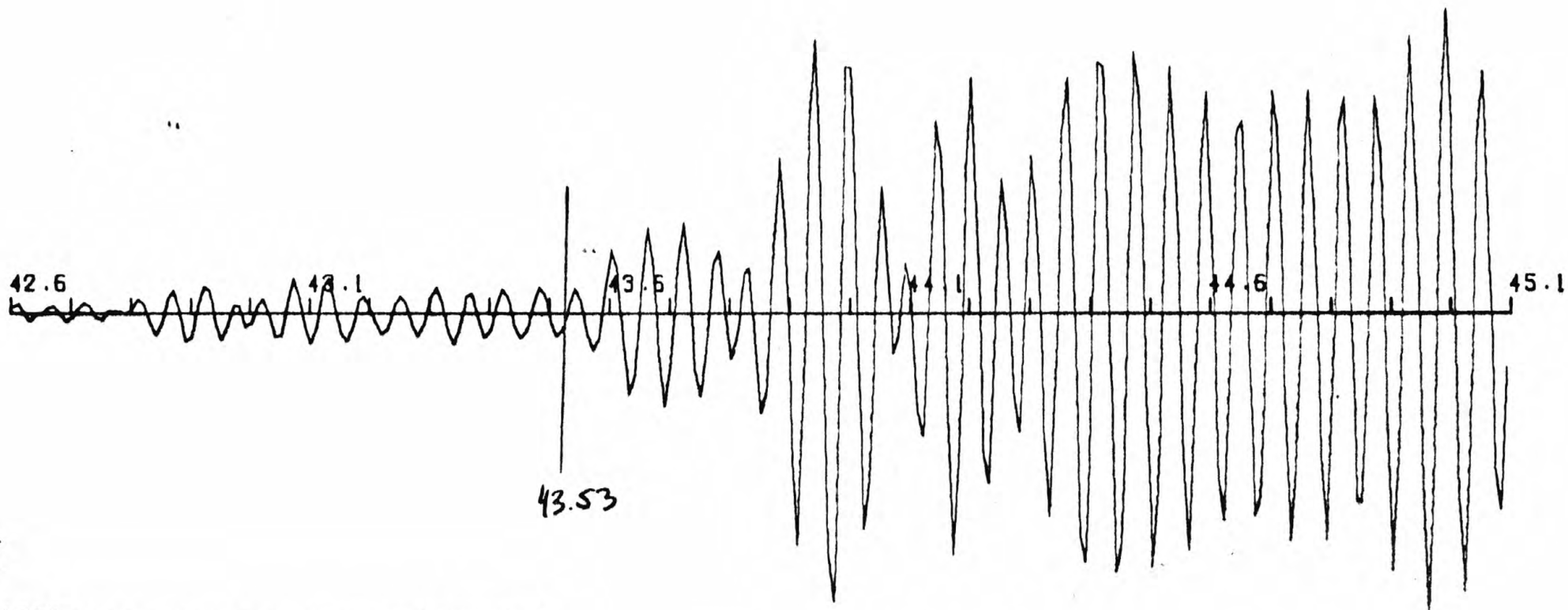
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 3

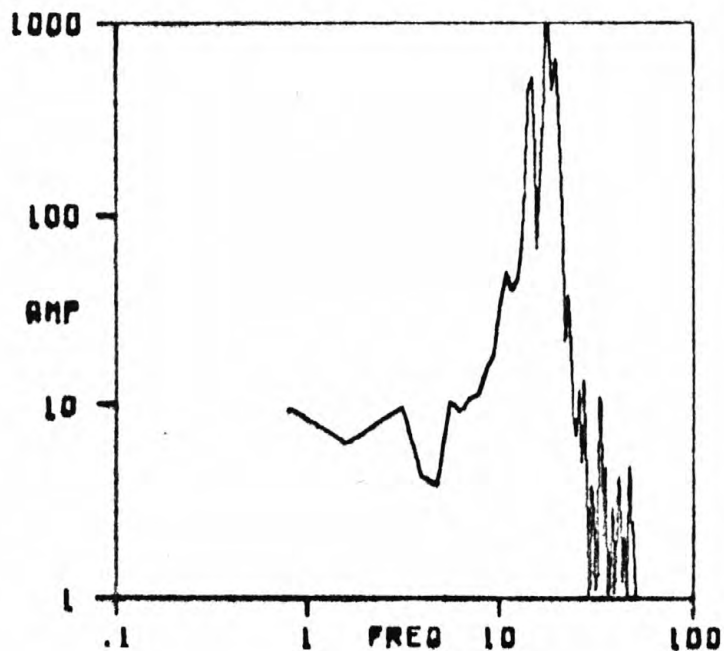
RECORDER LOCATION 556

DISTANCE FROM SHOT (KM) = -293.438

TSCALE (CM/SEC) = 10.0



471.



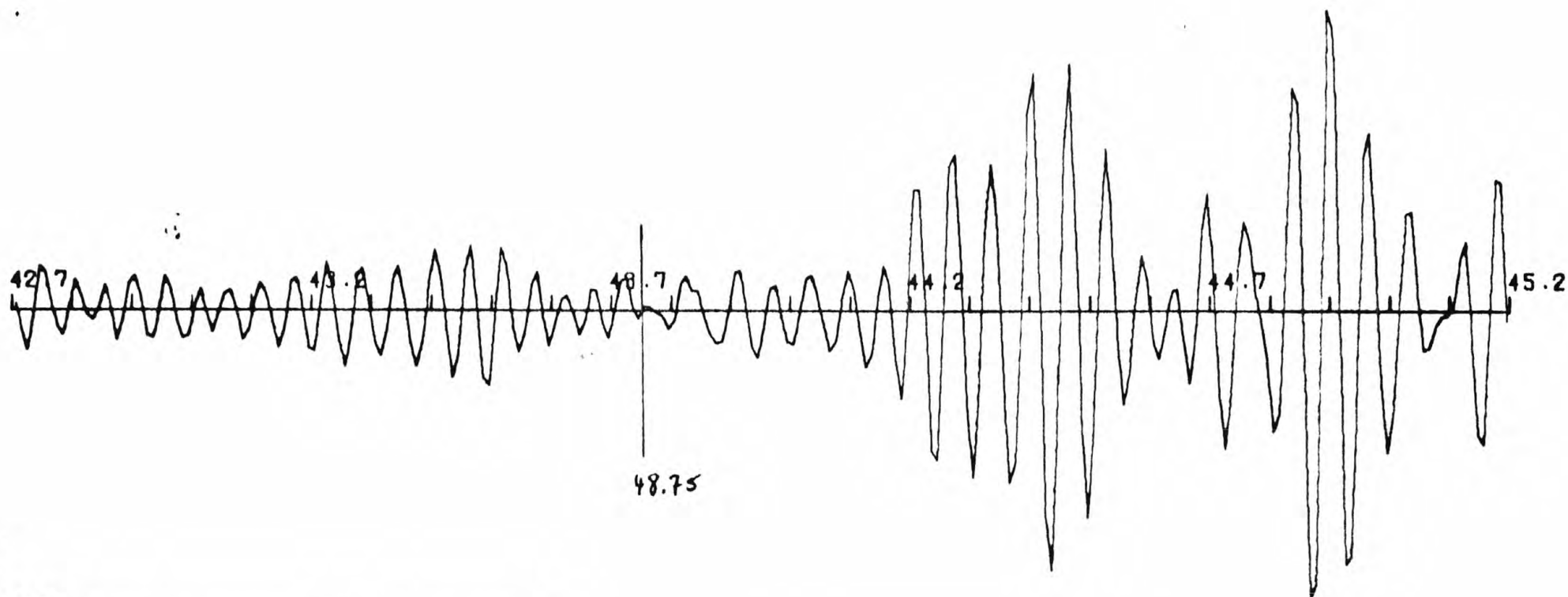
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 3

RECORDER LOCATION 557

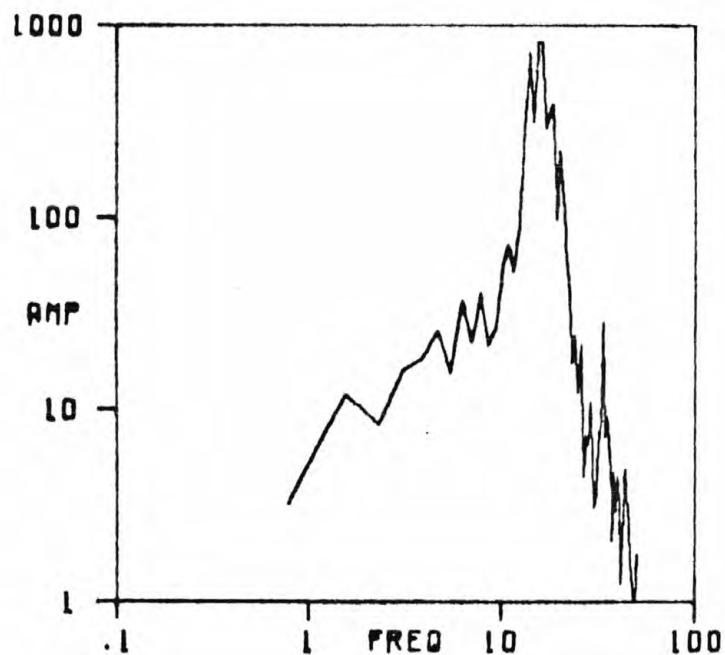
DISTANCE FROM SHOT (KM) = -297.265

TSCALE (CM/SEC) = 10.0



48.75

472



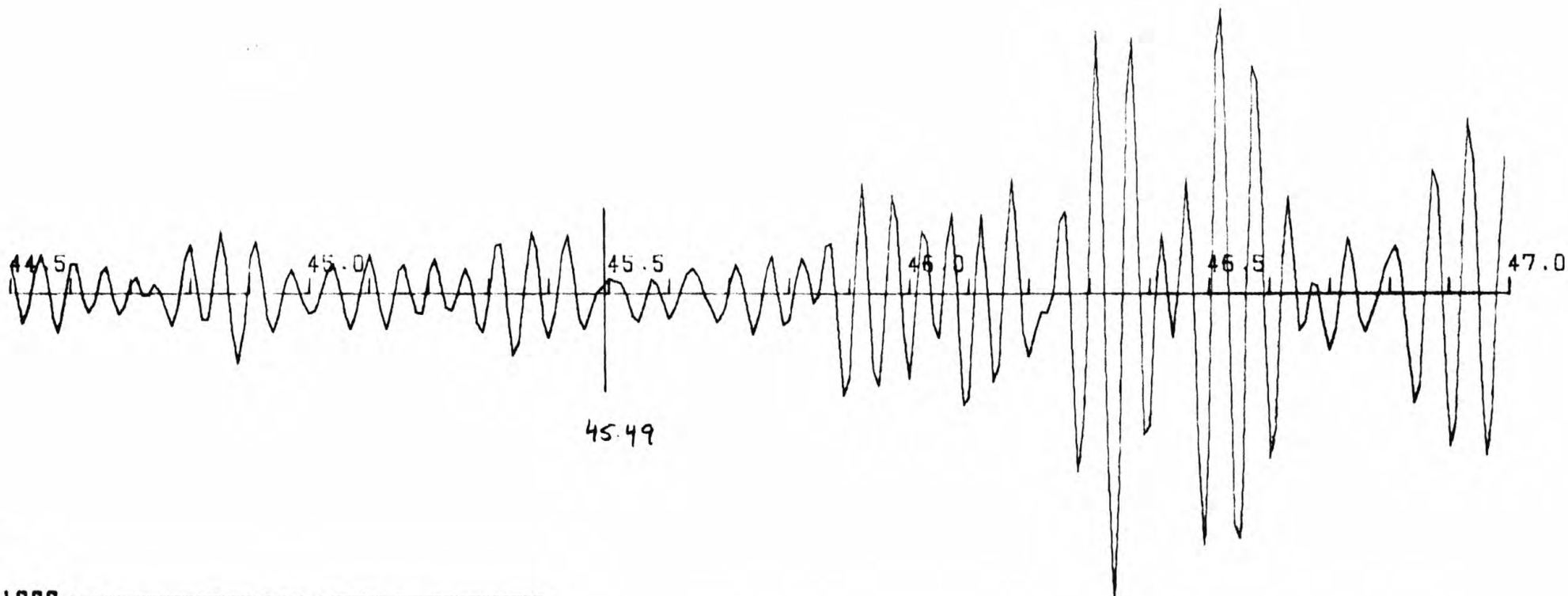
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 3

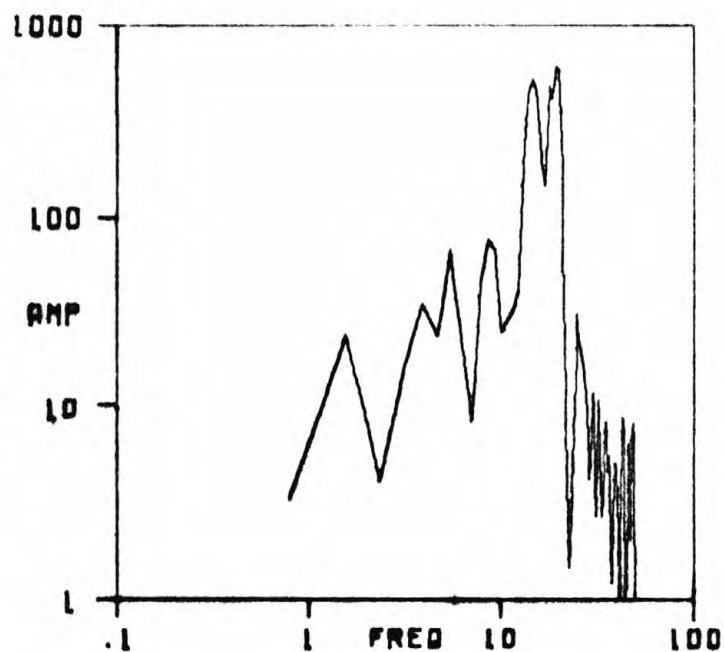
RECORDER LOCATION 558

DISTANCE FROM SHOT (KM) = -298.126

TSCALE (CM/SEC) = 10.0



473



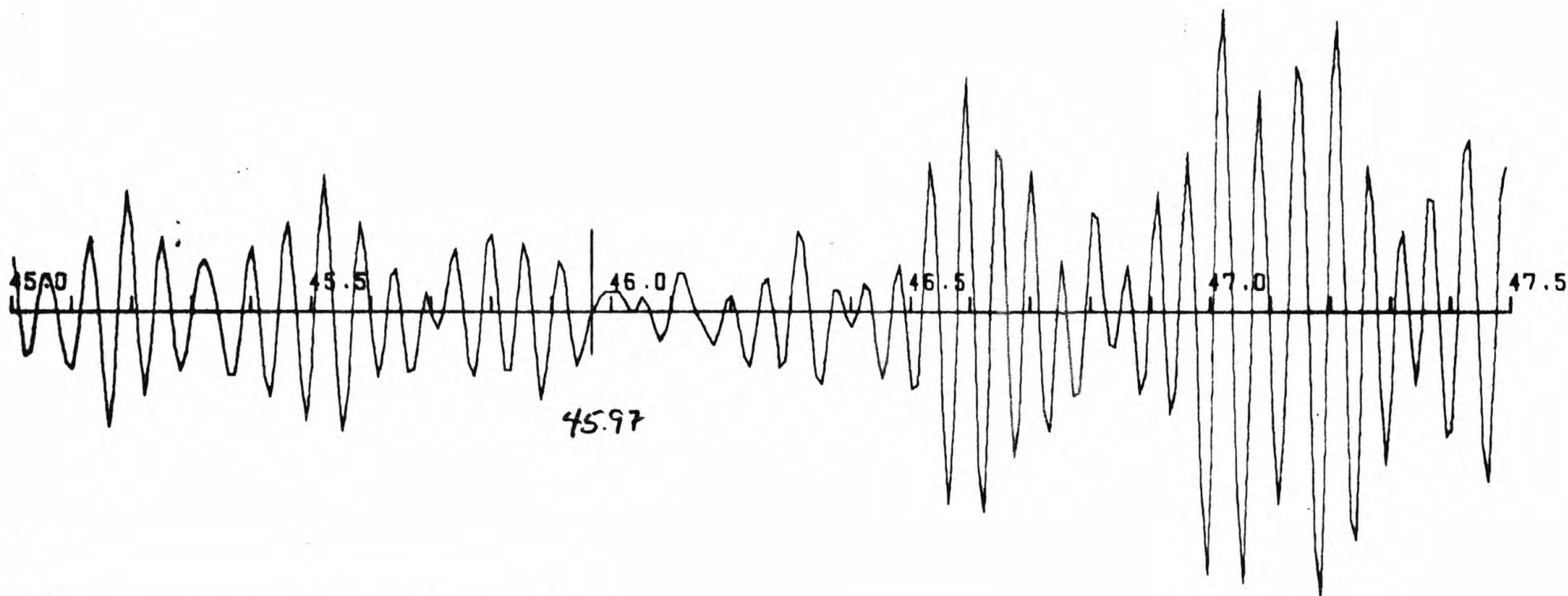
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 3

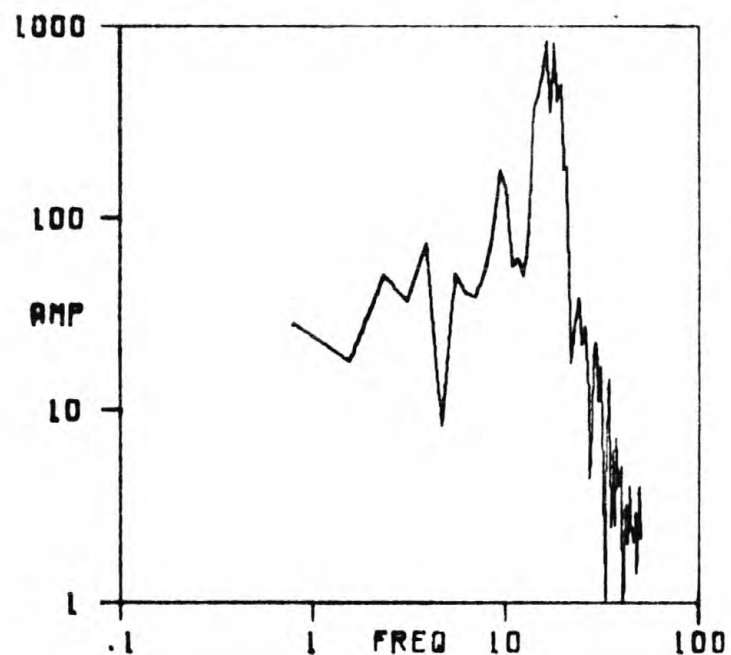
RECORDER LOCATION 566

DISTANCE FROM SHOT (KM) = -914.655

TSCALE (CM/SEC) = 10.0



474



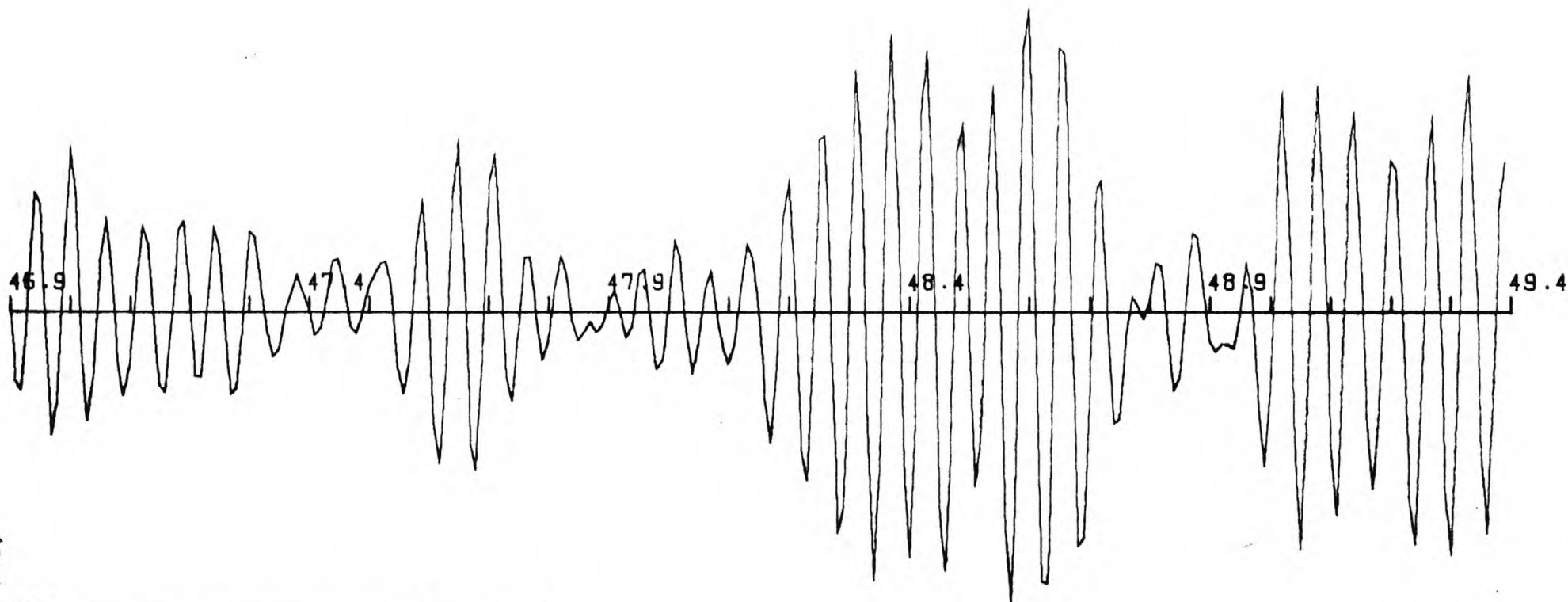
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 3

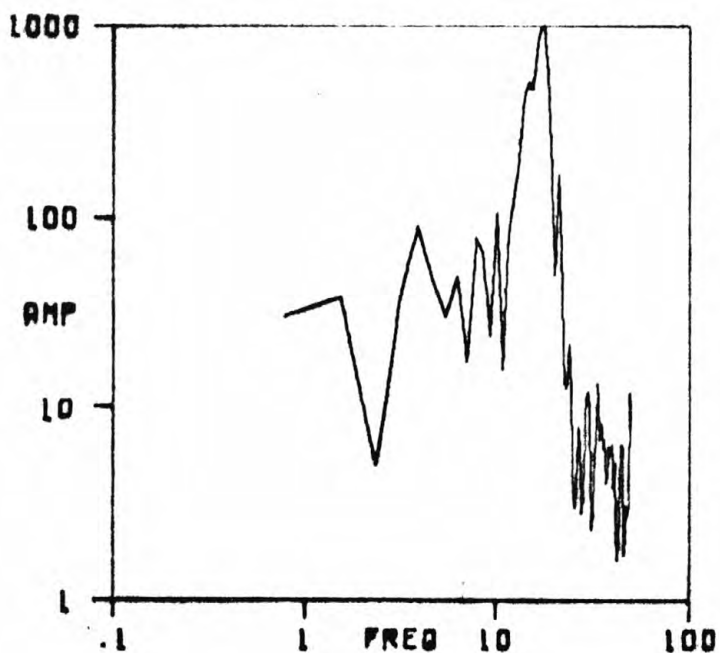
RECORDER LOCATION 567

DISTANCE FROM SHOT (KM) = -317.423

TSCALE (CM/SEC) = 10.0



475



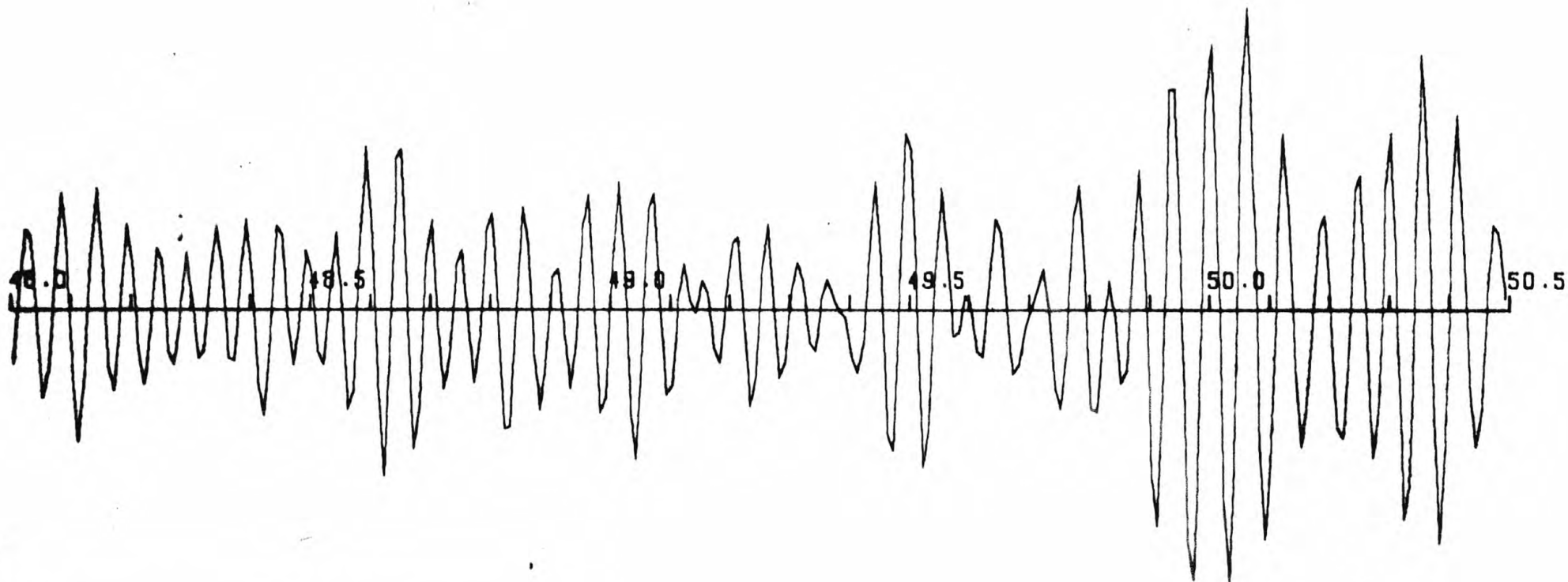
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 3

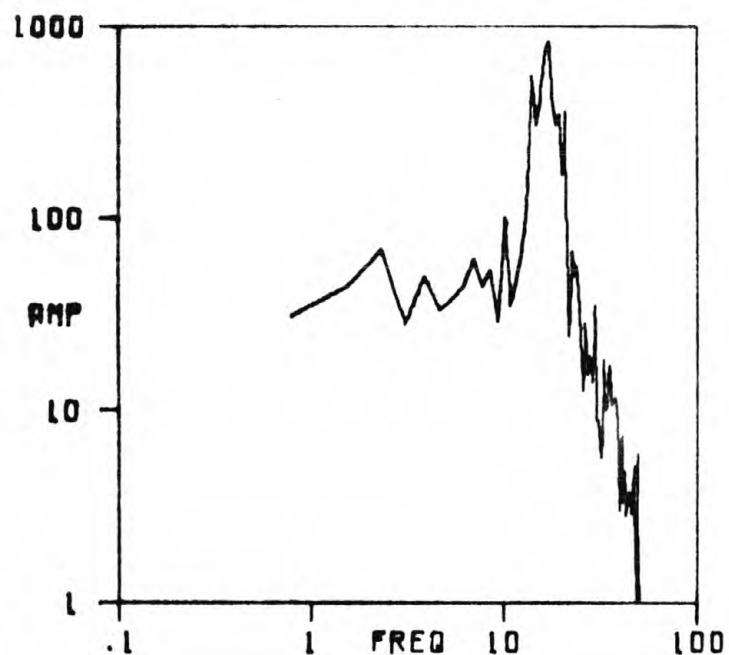
RECORDER LOCATION 573

DISTANCE FROM SHOT (KM) = -328.926

TS SCALE (CM/SEC) = 10.0



476



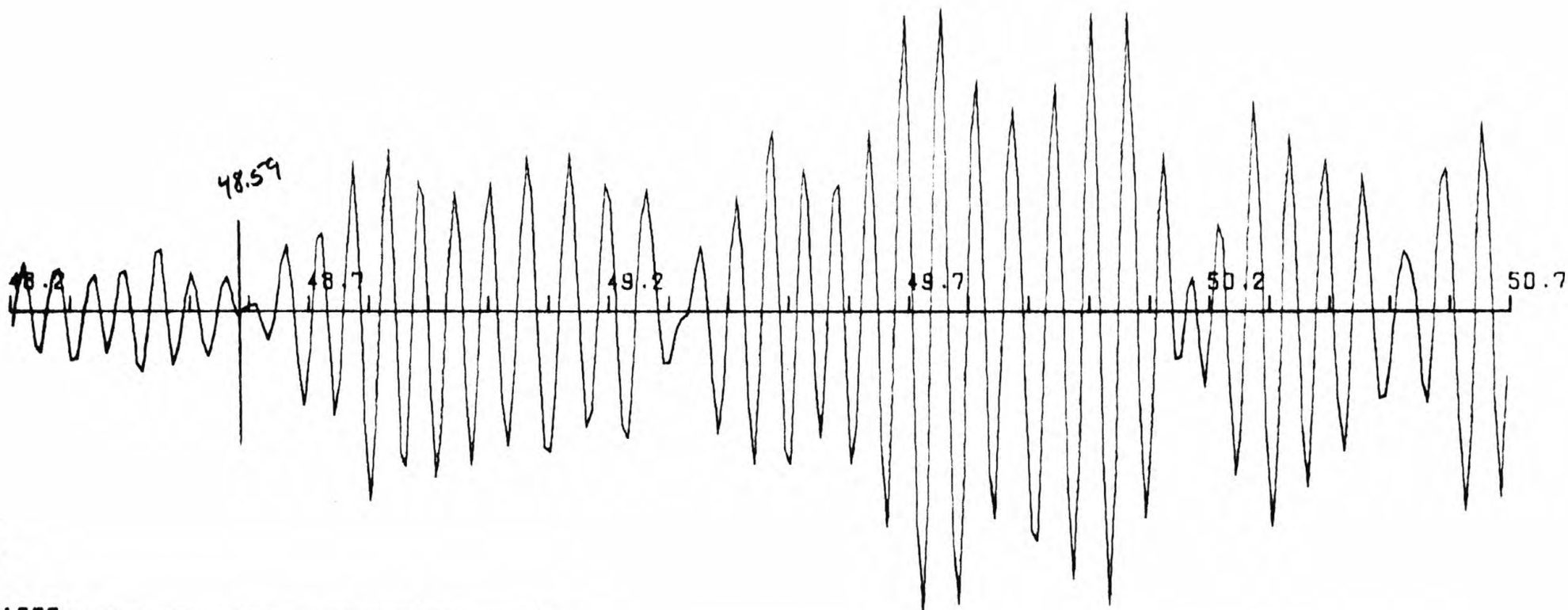
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 3

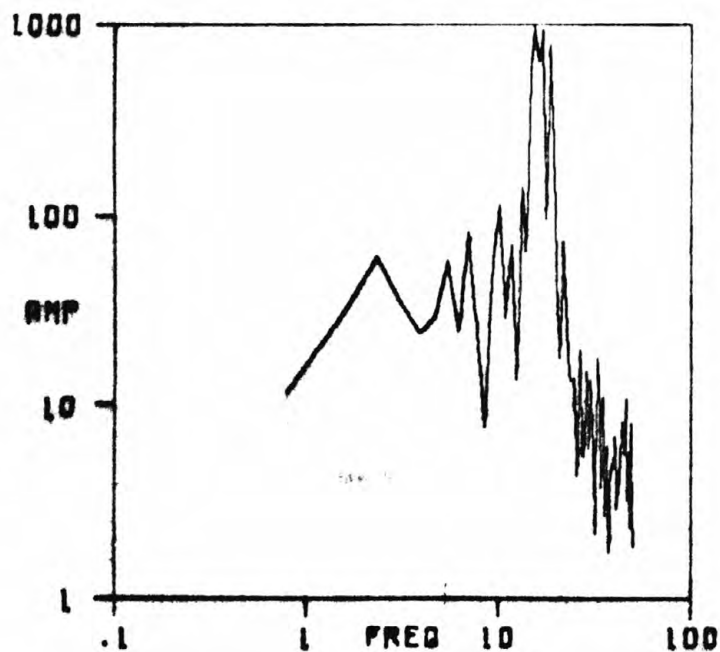
RECORDER LOCATION 576

DISTANCE FROM SHOT (KM) = -335.850

TSCALE (CM/SEC) = 10.0



477



SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 3

RECORDER LOCATION 577

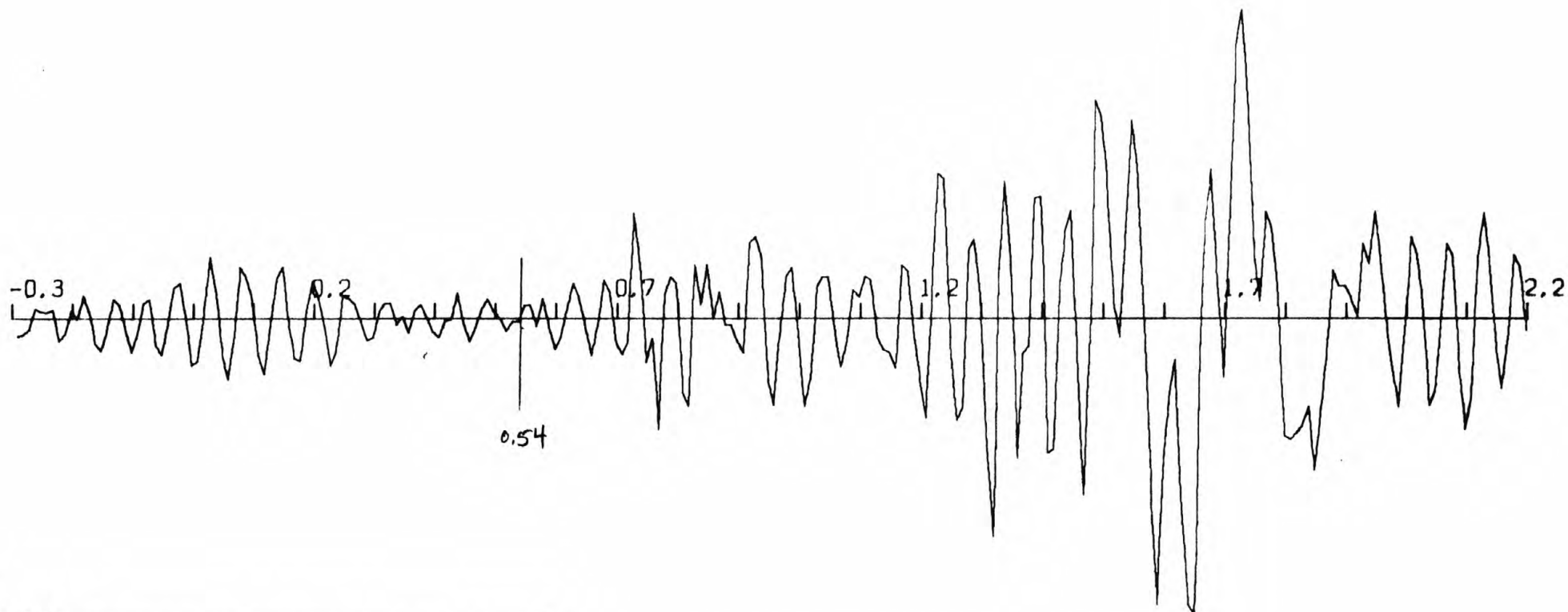
DISTANCE FROM SHOT (KM) = -937.167

TS SCALE (CM/SEC) = 10.0

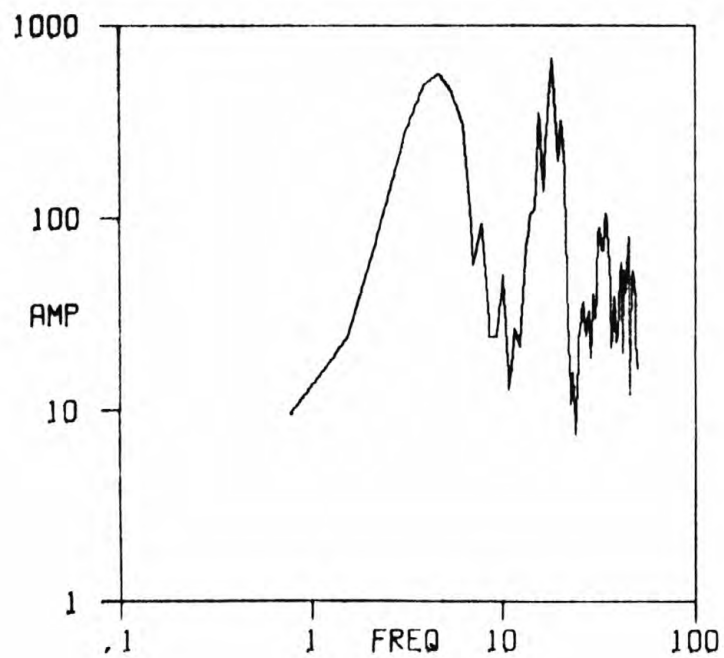
First Arrivals

Northeast from Shot Point 4

(4.1 to 280.8 km)



481



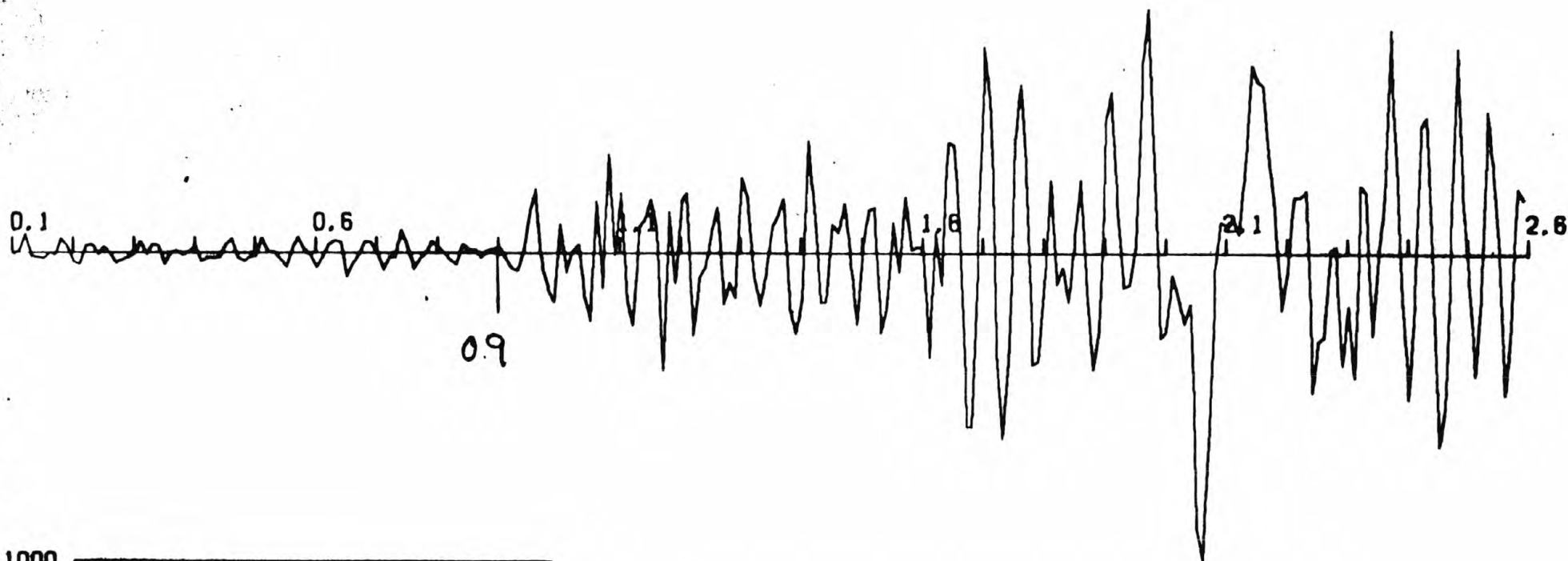
SAUDI REFRACTION PROFILE 15,20 BP

SHOT POINT 4

RECORDER LOCATION 516

DISTANCE FROM SHOT (KM) = 4.138

TSCALE (CM/SEC) = 10.0



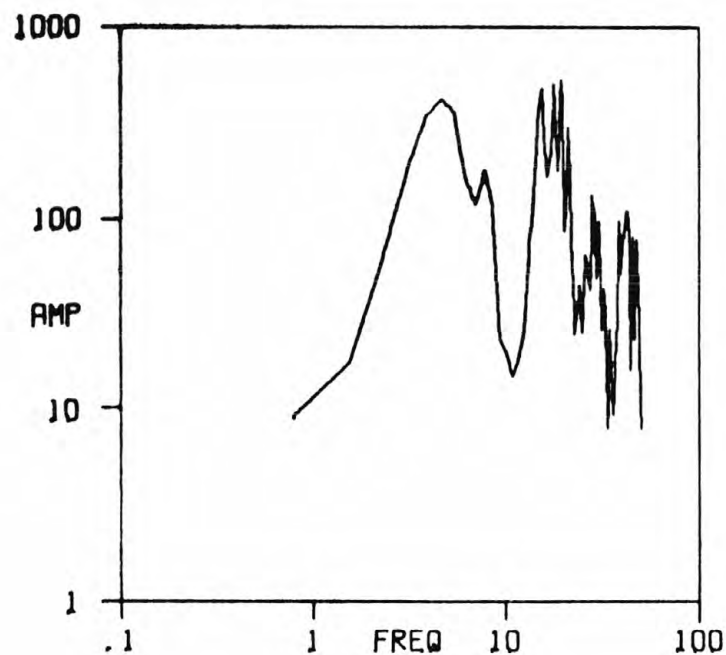
SAUDI REFRACTION PROFILE 15,20 BP

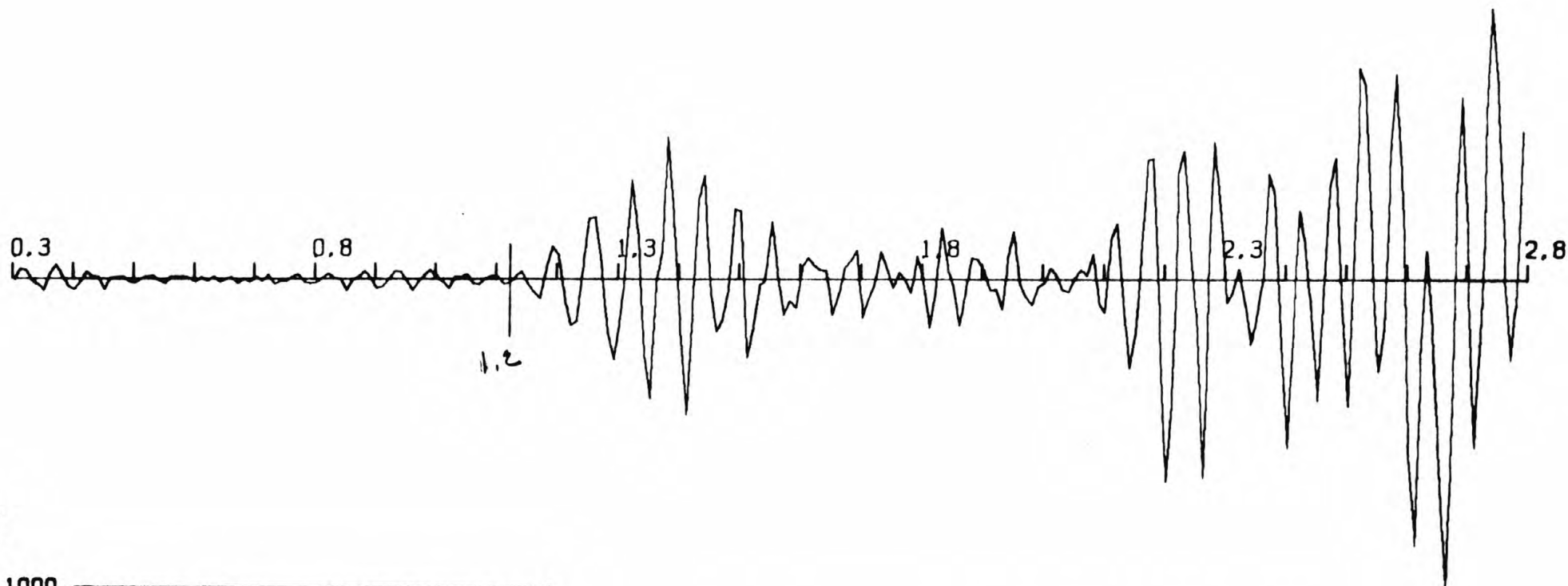
SHOT POINT 4

RECORDER LOCATION 515

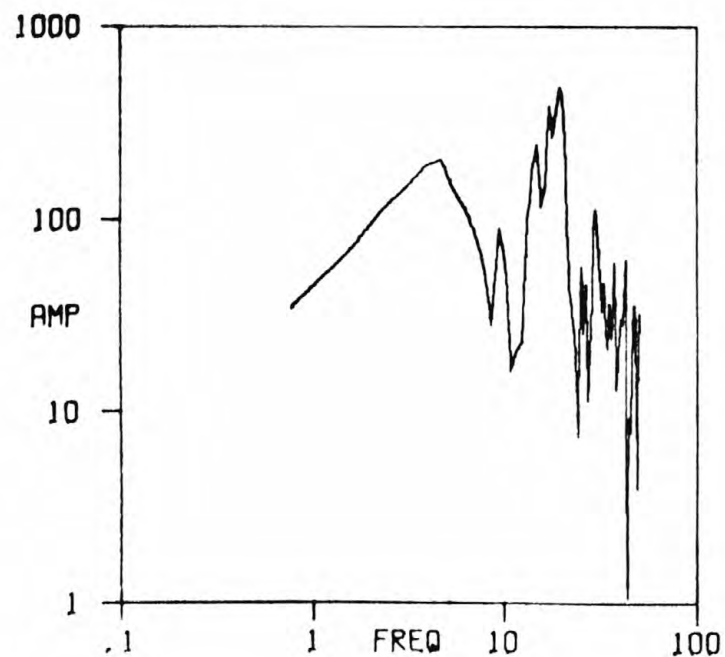
DISTANCE FROM SHOT (KM) = 5.481

TSCALE (CM/SEC) = 10.0





483



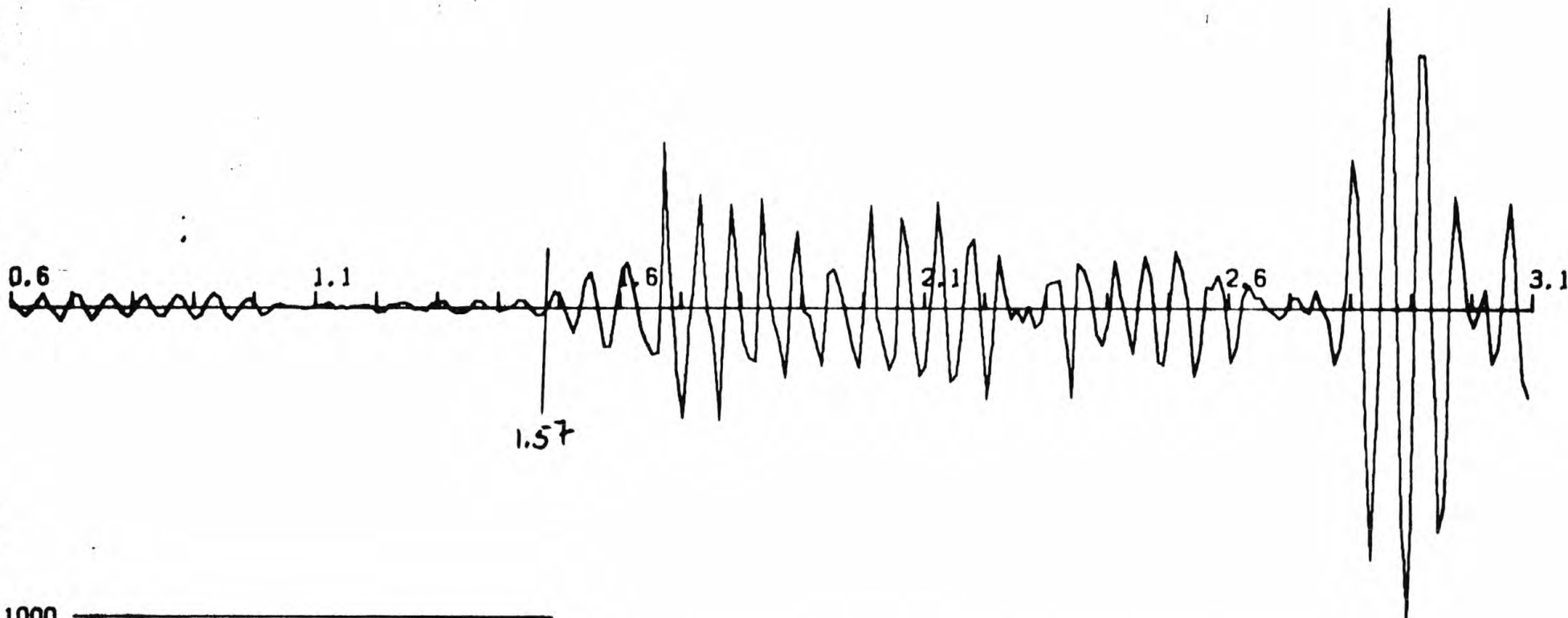
SAUDI REFRACTION PROFILE 15,20 BP

SHOT POINT 4

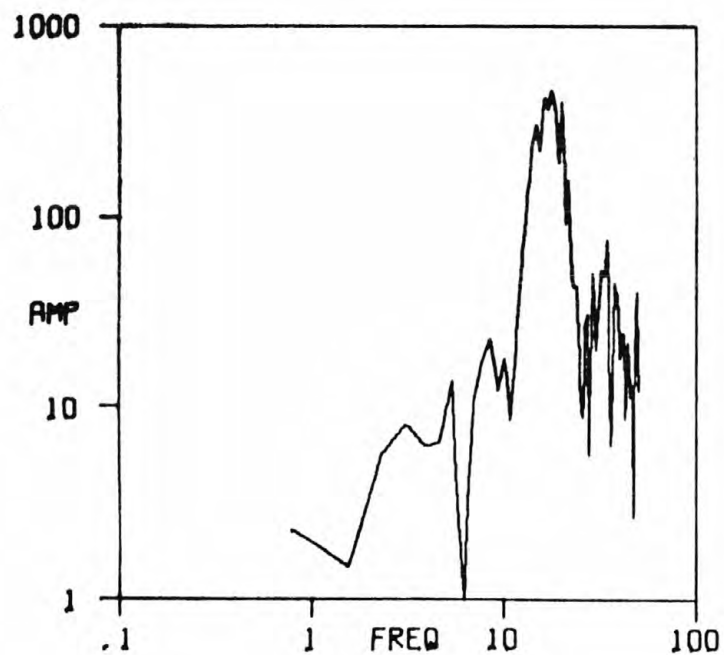
RECORDER LOCATION 514

DISTANCE FROM SHOT (KM) = 7.347

TSCALE (CM/SEC) = 10.0



484



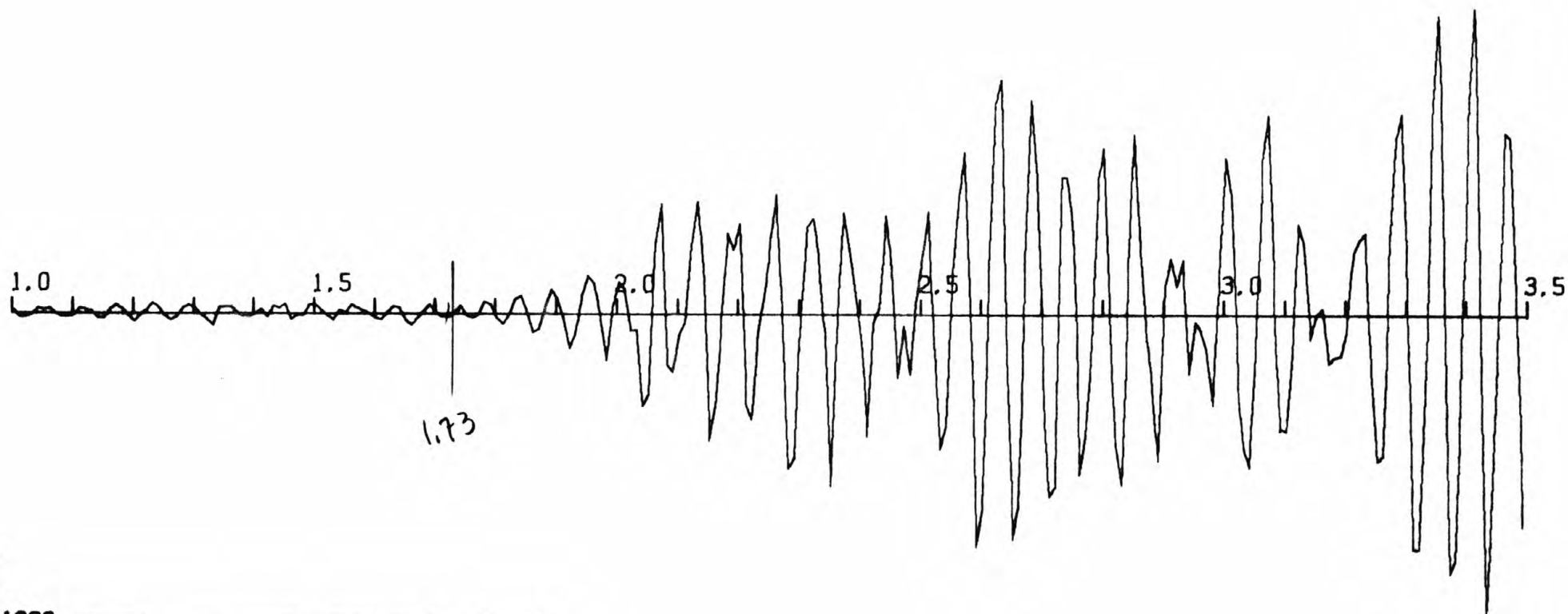
SAUDI REFRACTION PROFILE 15,20 BP

SHOT POINT 4

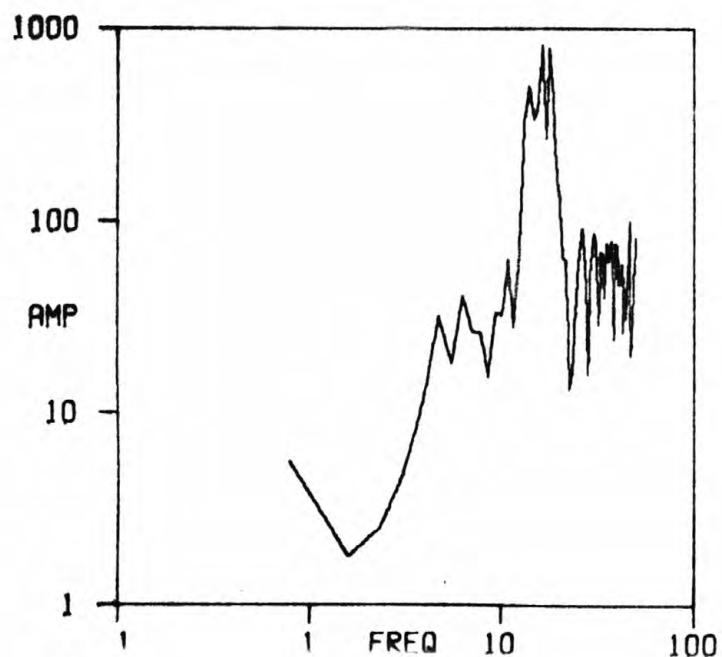
RECORDER LOCATION 513

DISTANCE FROM SHOT (KM) = 9.448

TSCALE (CM/SEC) = 10.0



485



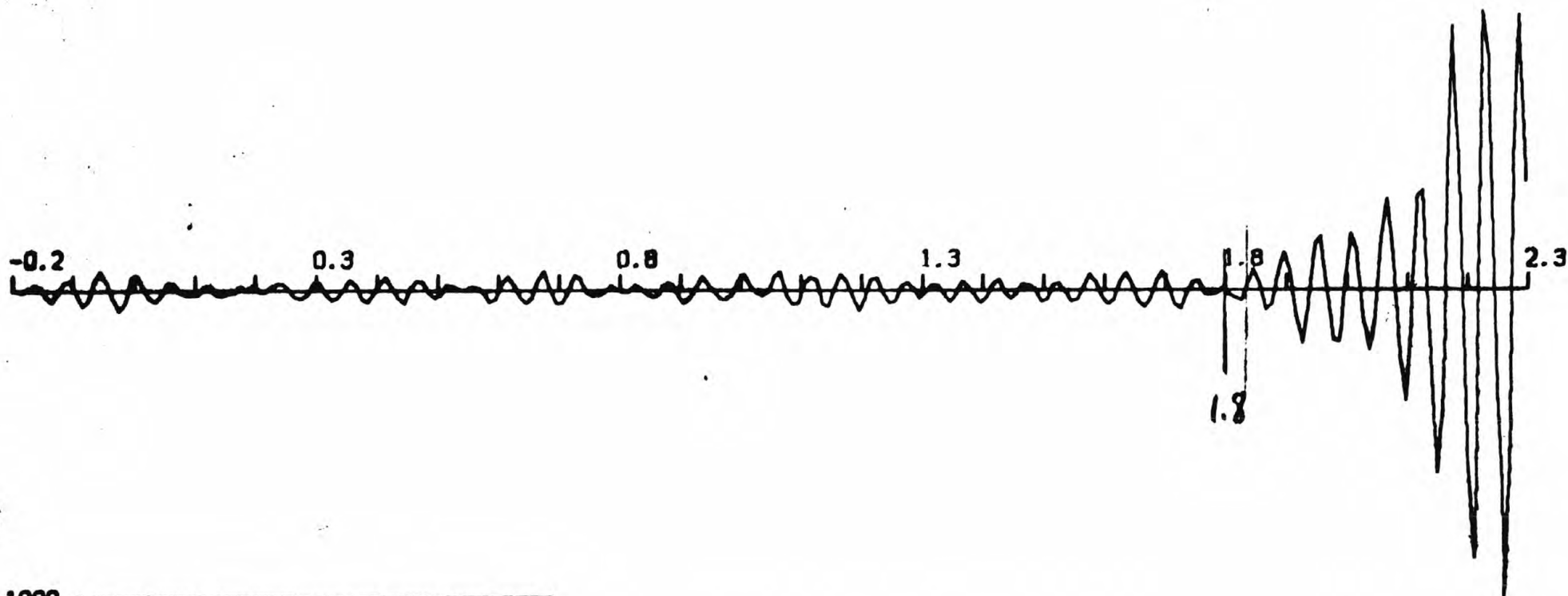
SAUDI REFRACTION PROFILE 15,20 BP

SHOT POINT 4

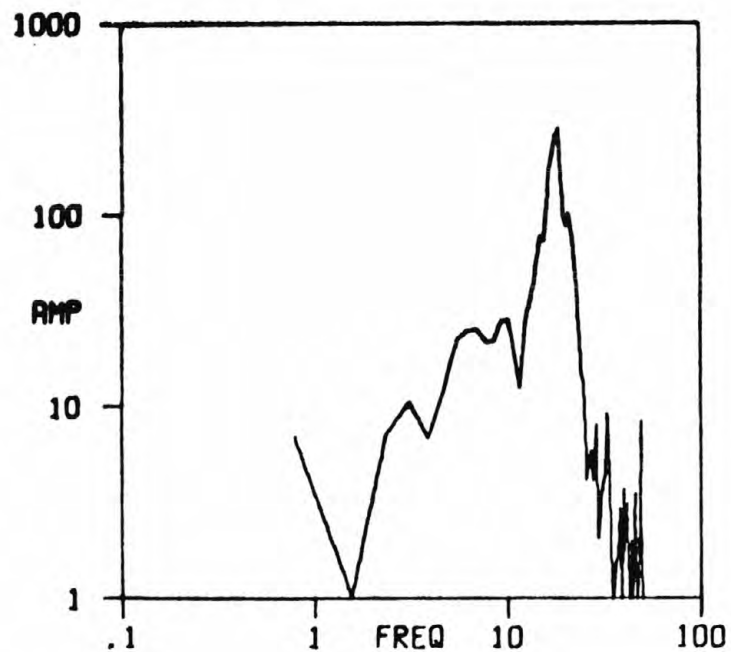
RECORDER LOCATION 512

DISTANCE FROM SHOT (KM) = 11.547

TSCALE (CM/SEC) = 10.0



486



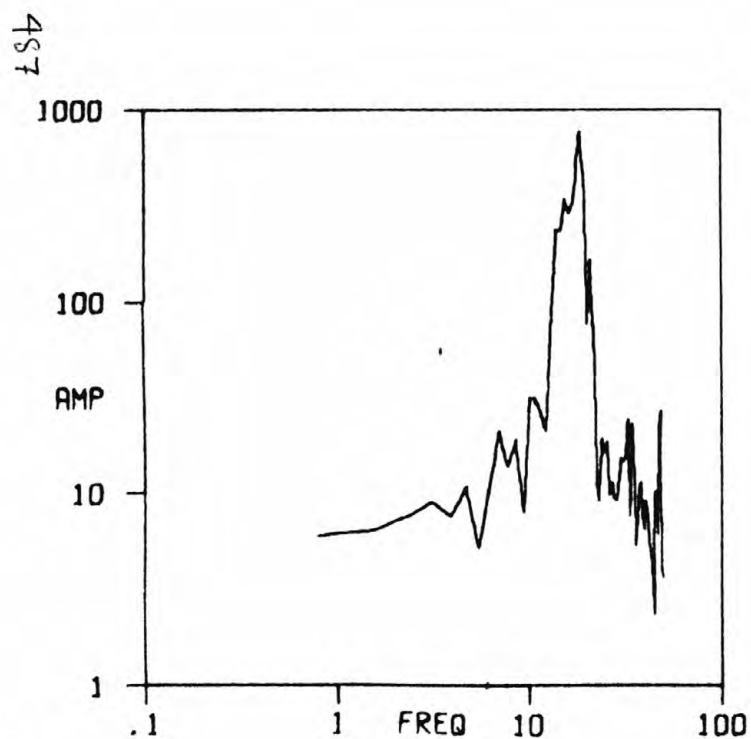
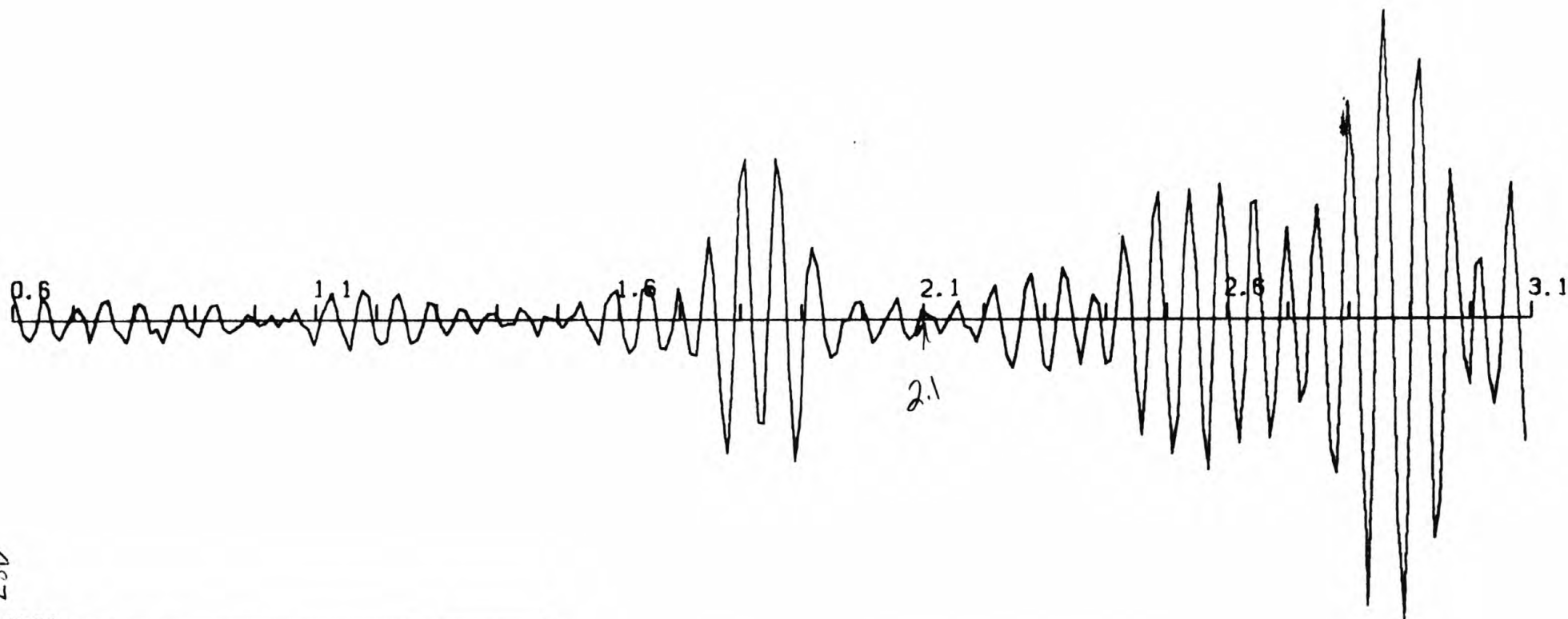
ARABIAN PROFILE 15,20 BP

SHOT POINT 4

RECORDER LOCATION 511

DISTANCE FROM SHOT (KM) = 13.550

TSCALE (CM/SEC) = 10.0



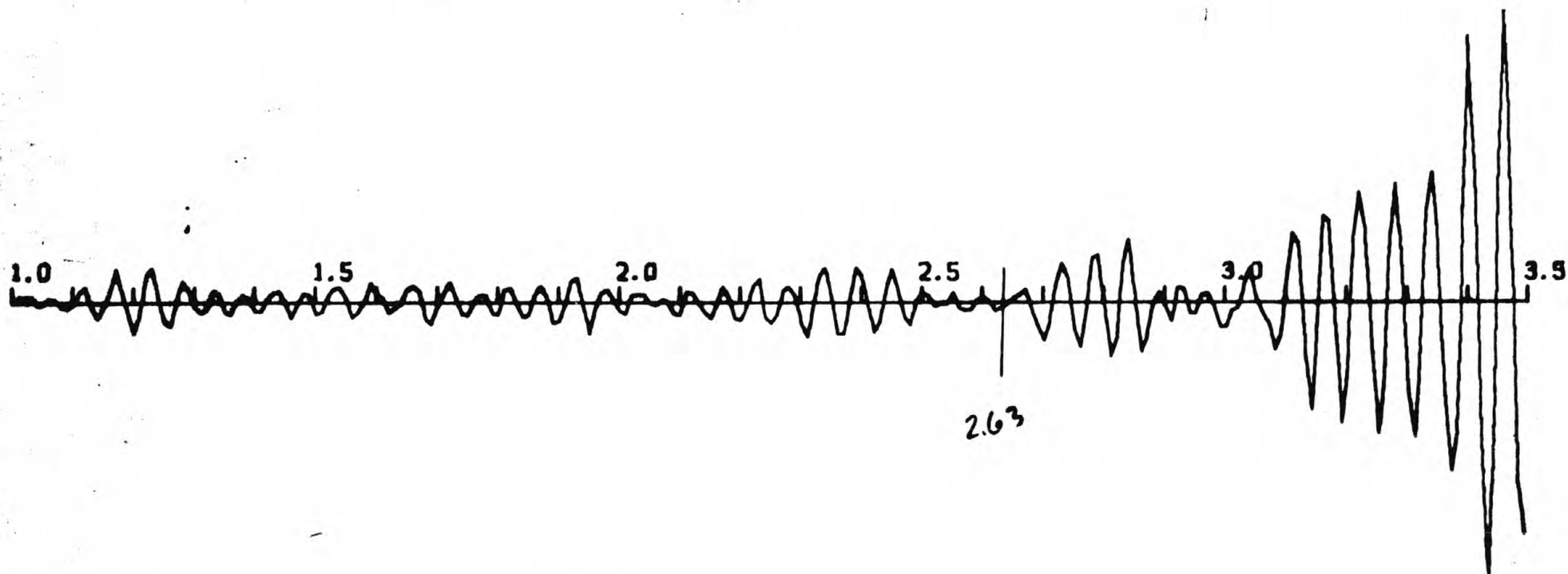
ARABIAN PROFILE 15,20 BP

SHOT POINT 4

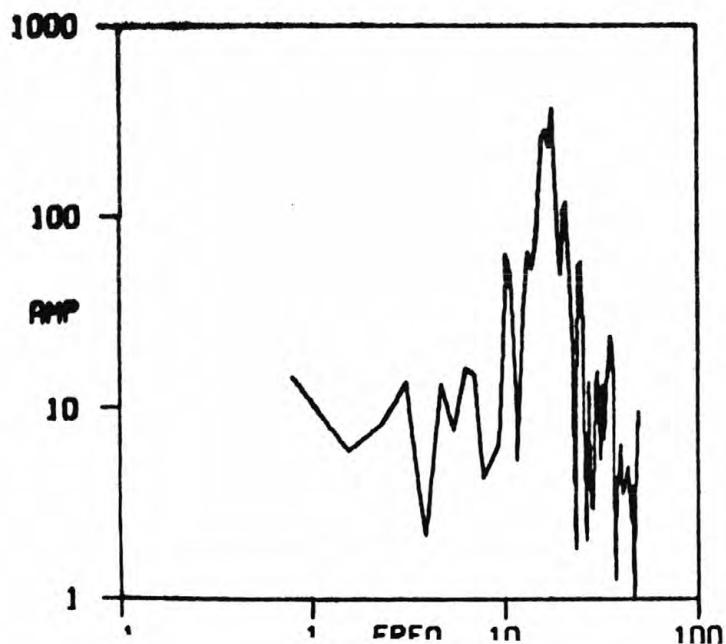
RECORDER LOCATION 509

DISTANCE FROM SHOT (KM) = 18.004

TSCALE (CM/SEC) = 10.0



488



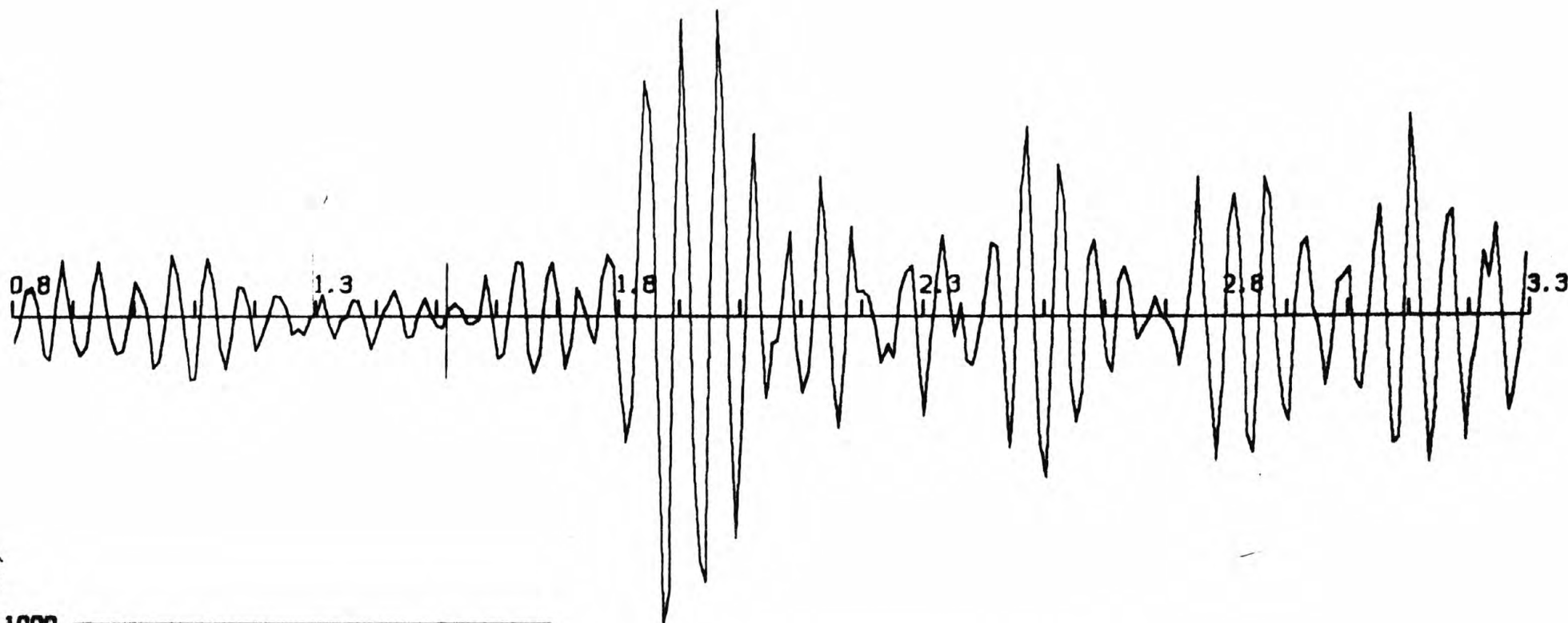
ARABIAN PROFILE 15.20 BP

SHOT POINT 4

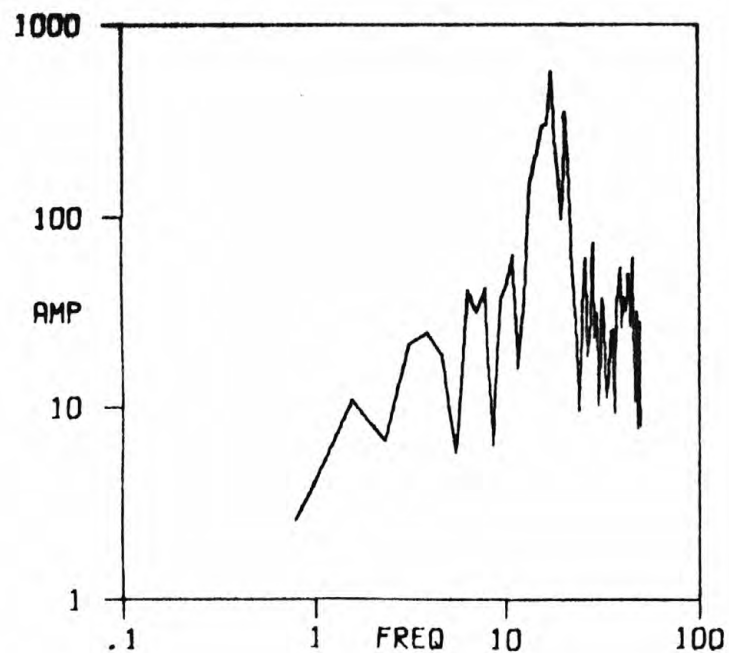
RECORDER LOCATION 508

DISTANCE FROM SHOT (KM) = 20.606

TSCALE (CM/SEC) = 10.0



489



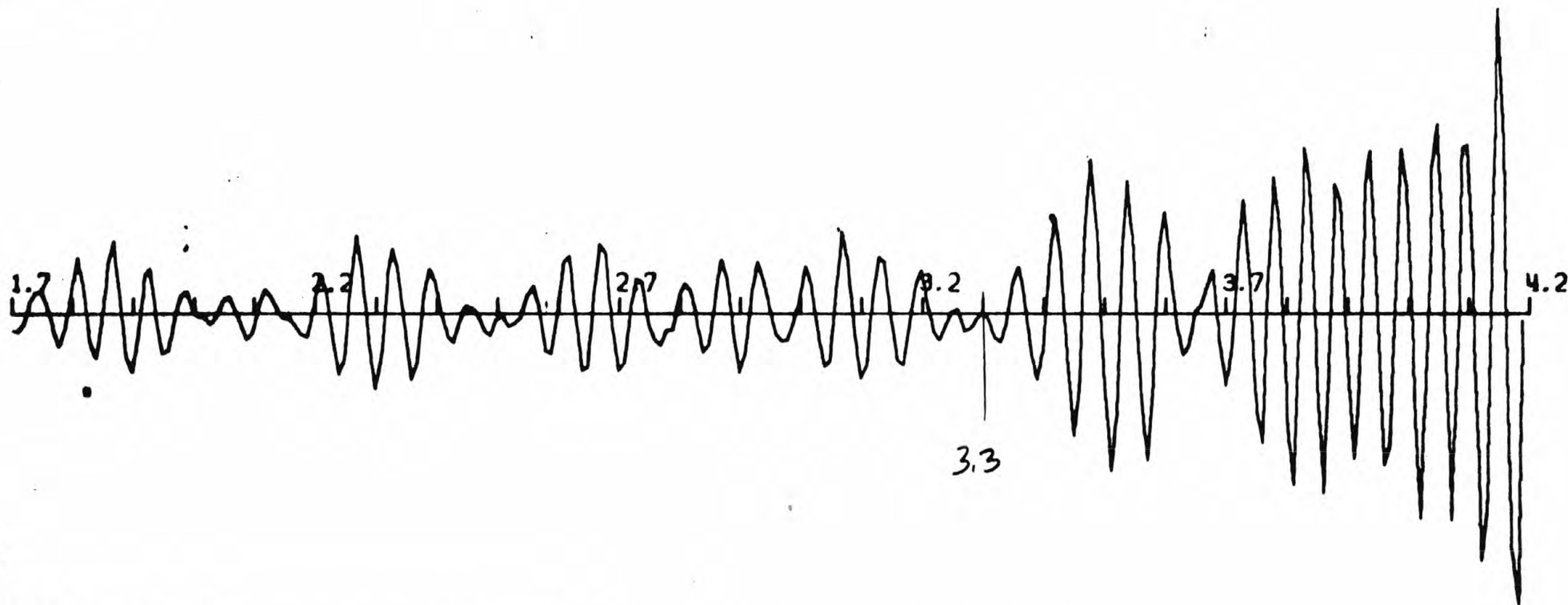
ARABIAN PROFILE 15.20 BP

SHOT POINT 4

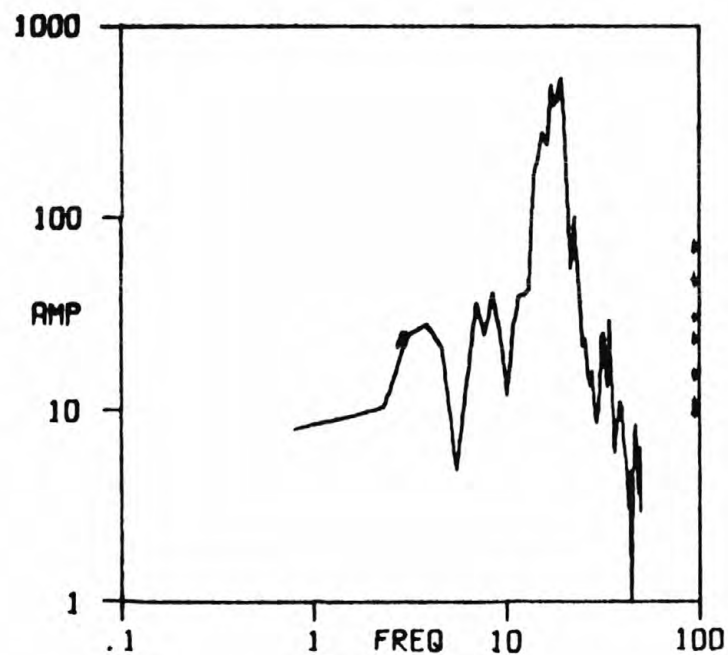
RECORDER LOCATION 507

DISTANCE FROM SHOT (KM) = 22.648

TSCALE (CM/SEC) = 10.0



490



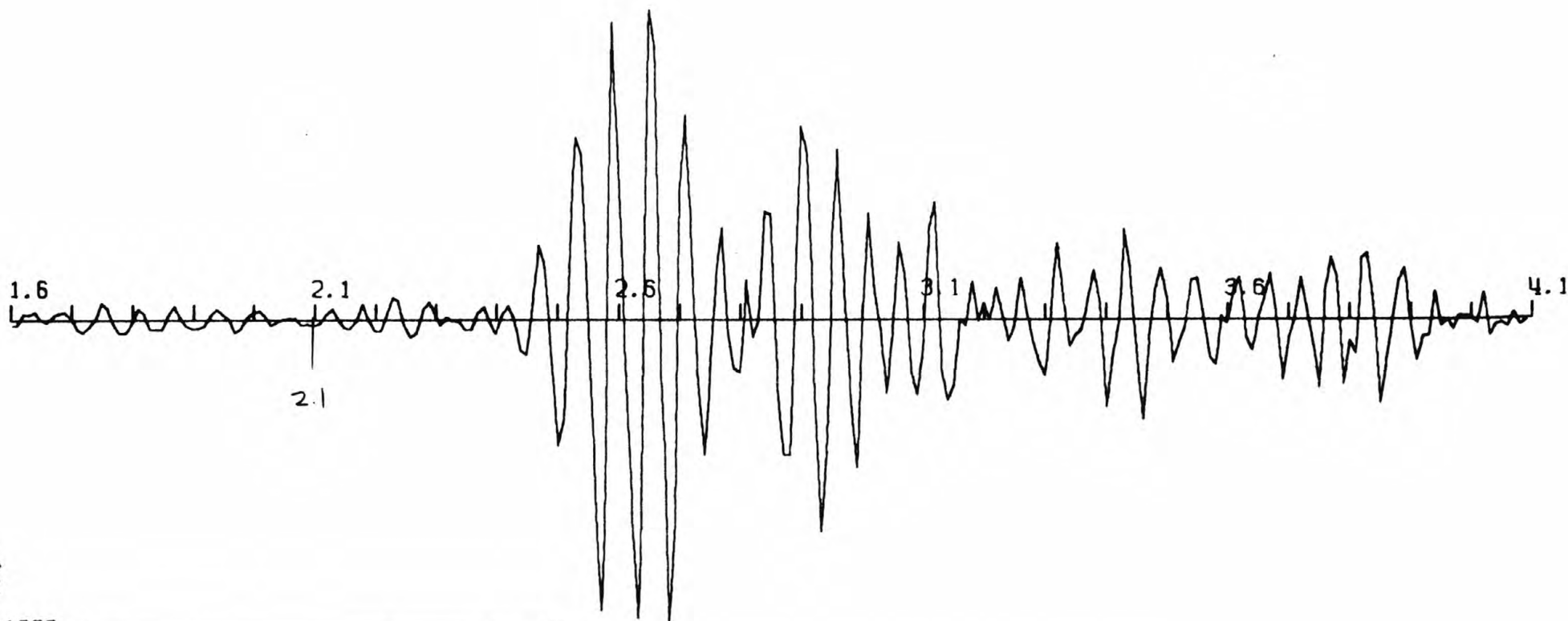
ARABIAN PROFILE 15.20 BP

SHOT POINT 4

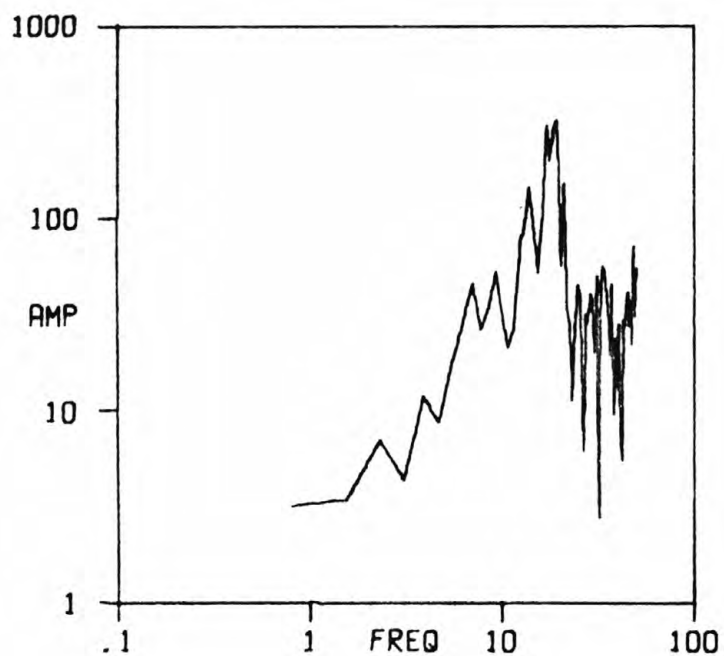
RECORDER LOCATION 506

DISTANCE FROM SHOT (KM) = 24.907

TSCALE (CM/SEC) = 10.0



491



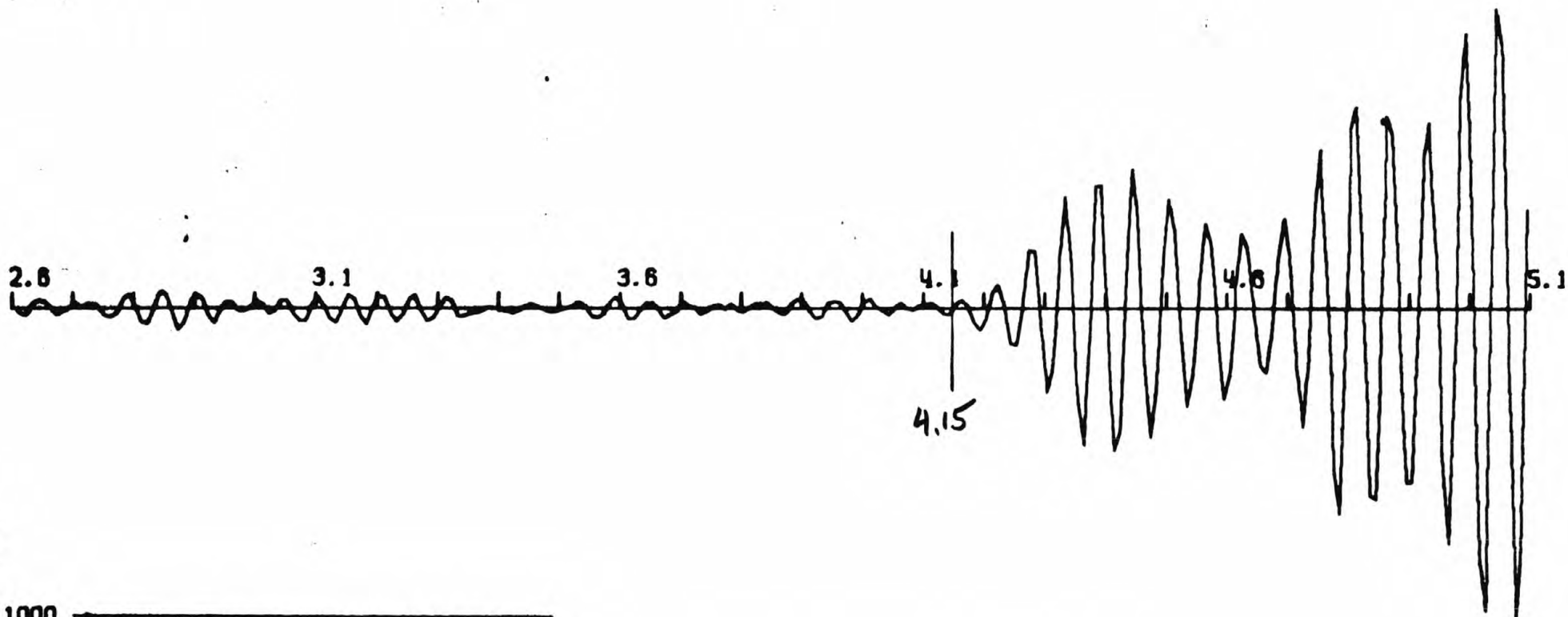
ARABIAN PROFILE 15.20 BP

SHOT POINT 4

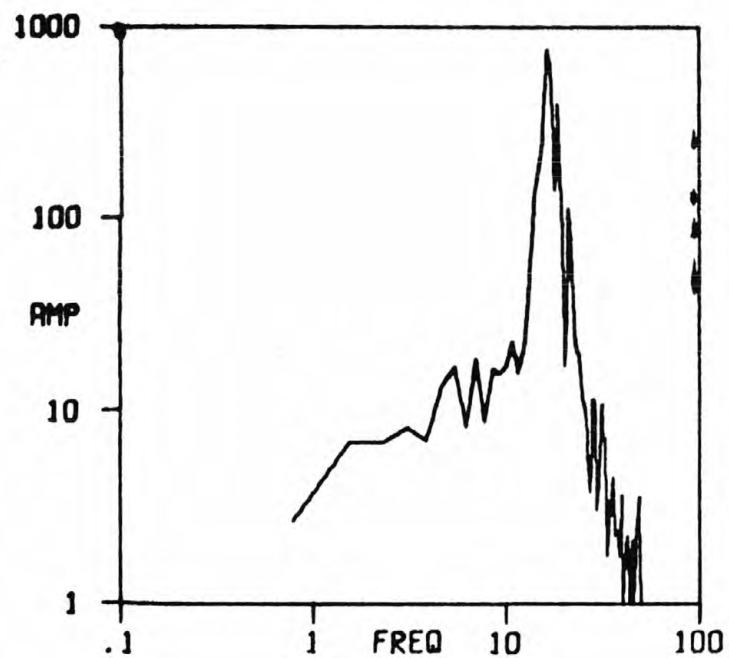
RECORDER LOCATION 505

DISTANCE FROM SHOT (KM) = 27.134

TSCALE (CM/SEC) = 10.0



492



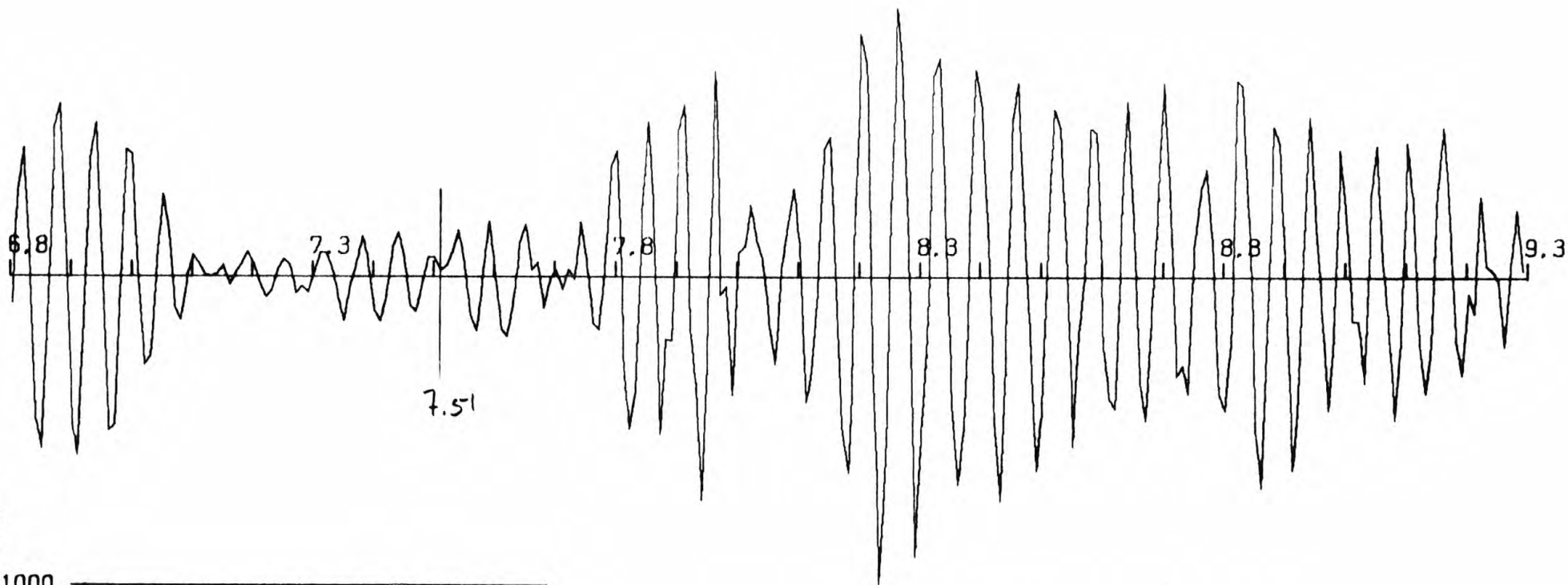
ARABIAN PROFILE 15,20 BP

SHOT POINT 4

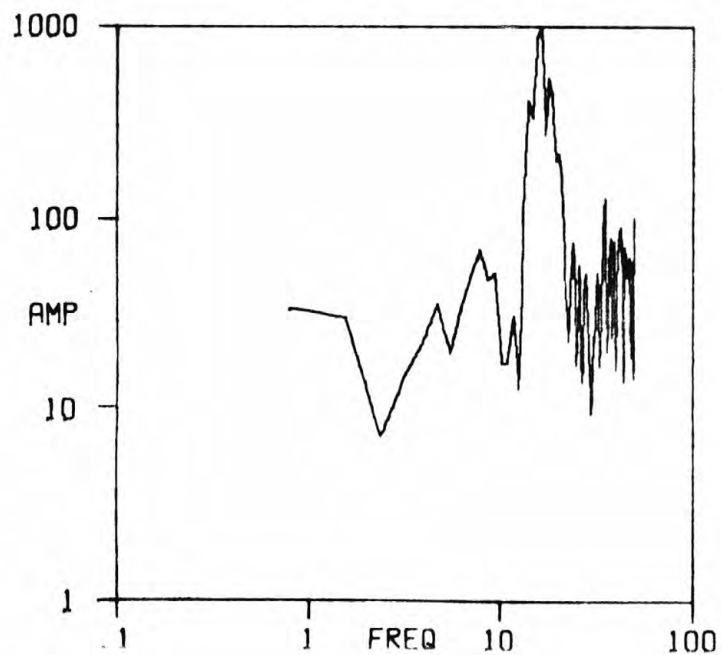
RECORDER LOCATION 504

DISTANCE FROM SHOT (KM) = 30.100

TSCALE (CM/SEC) = 10.0



493



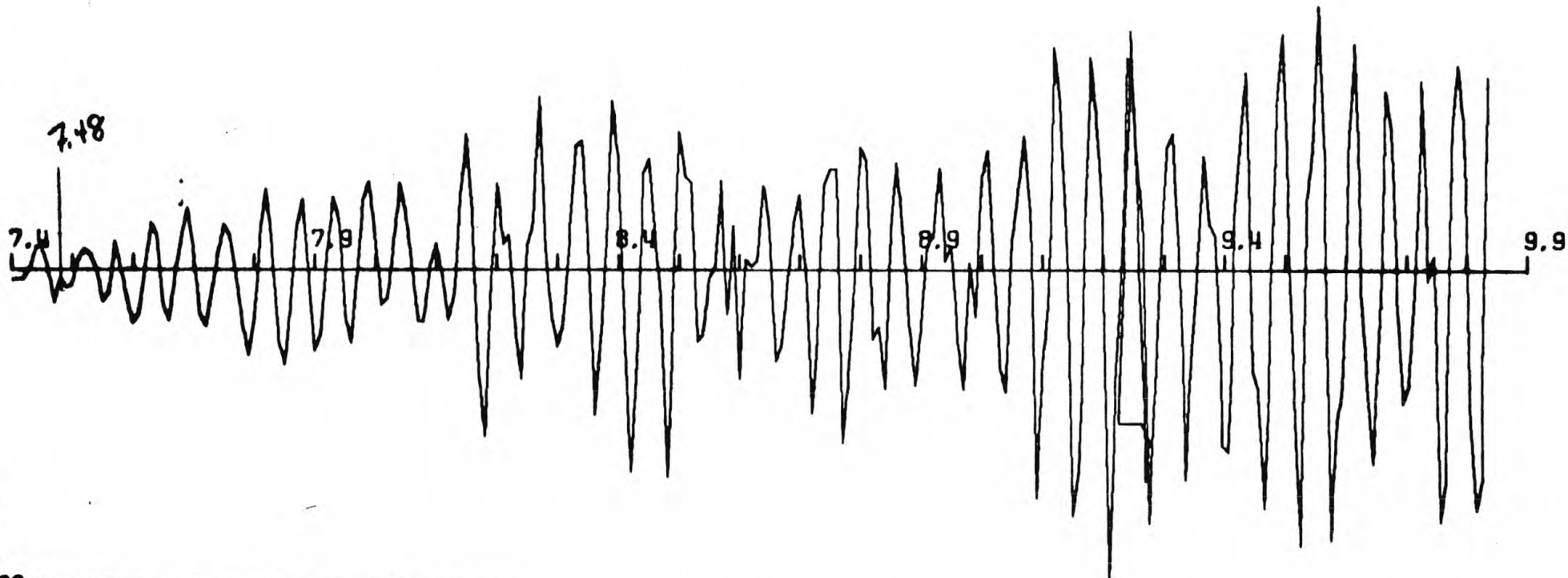
SAUDI REFRACTION PROFILE 15,20 BP

SHOT POINT 4

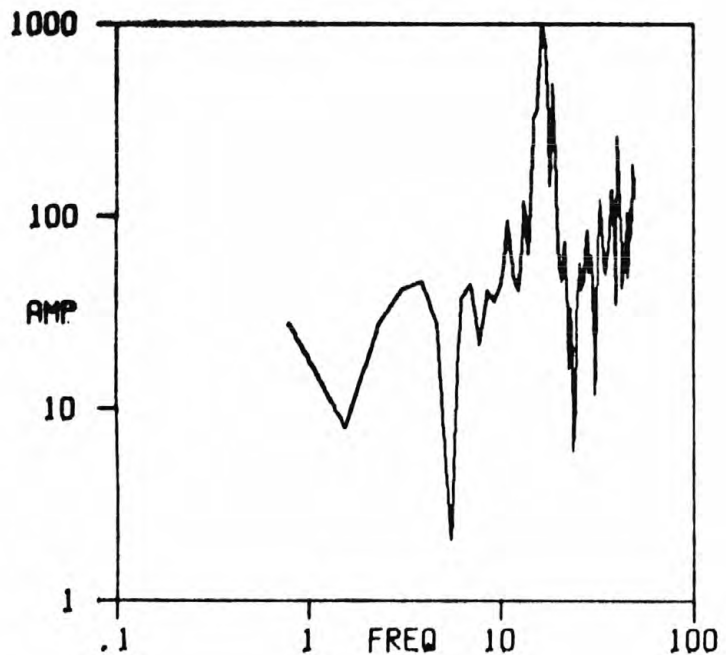
RECORDER LOCATION 497

DISTANCE FROM SHOT (KM) = 46,525

TSCALE (CM/SEC) = 10.0



494



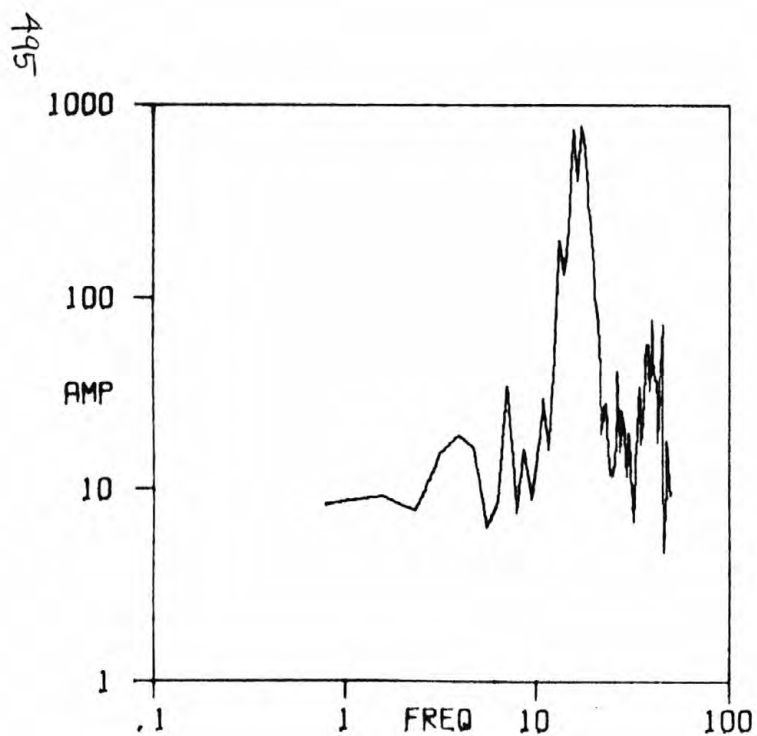
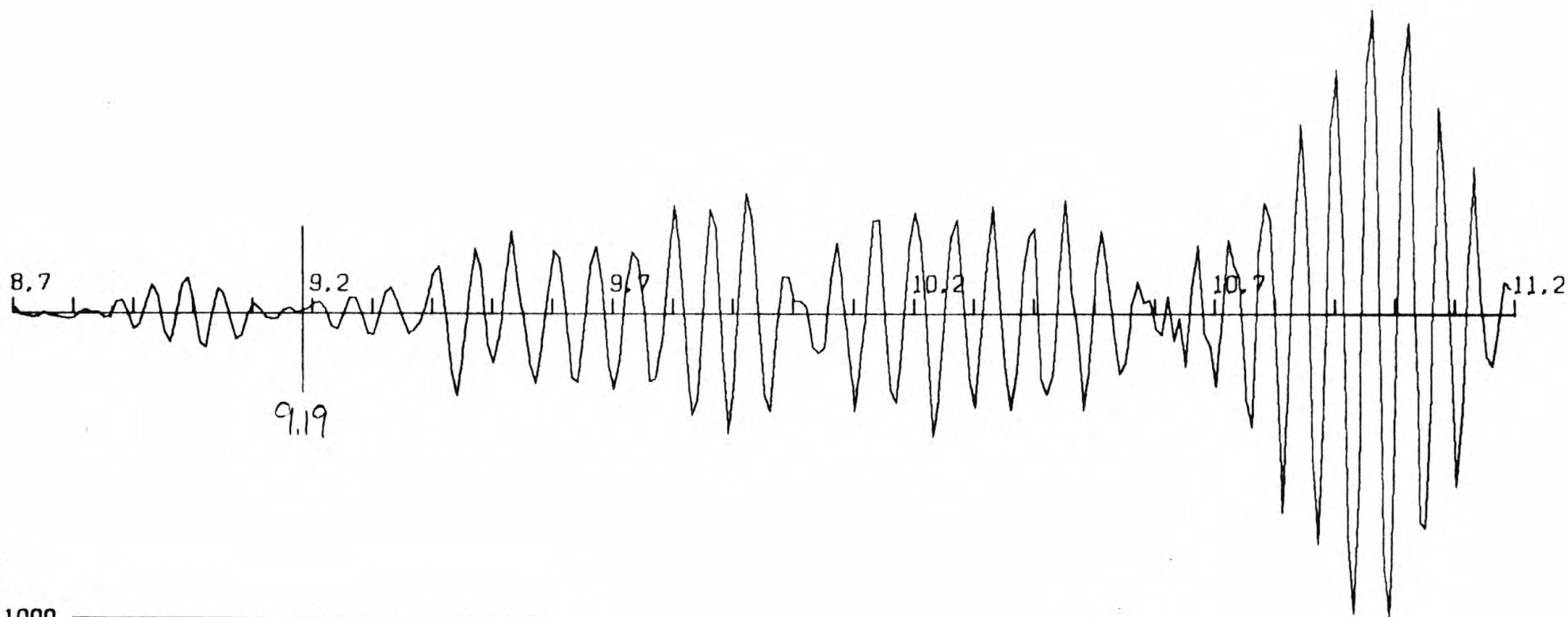
SAUDI REFRACTION PROFILE 15,20 BP

SHOT POINT 4

RECORDER LOCATION 495

DISTANCE FROM SHOT (KM) = 50.109

TSCALE (CM/SEC) = 10.0



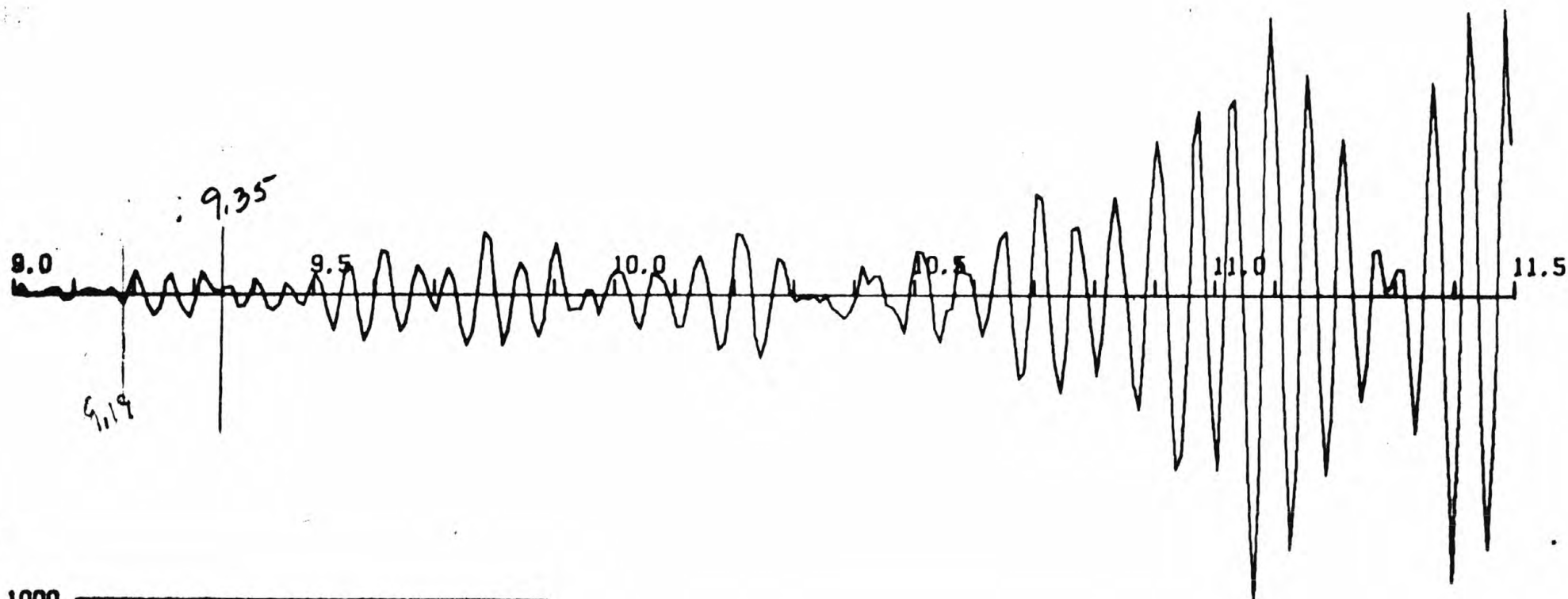
SAUDI REFRACTION PROFILE 15,20 BP

SHOT POINT 4

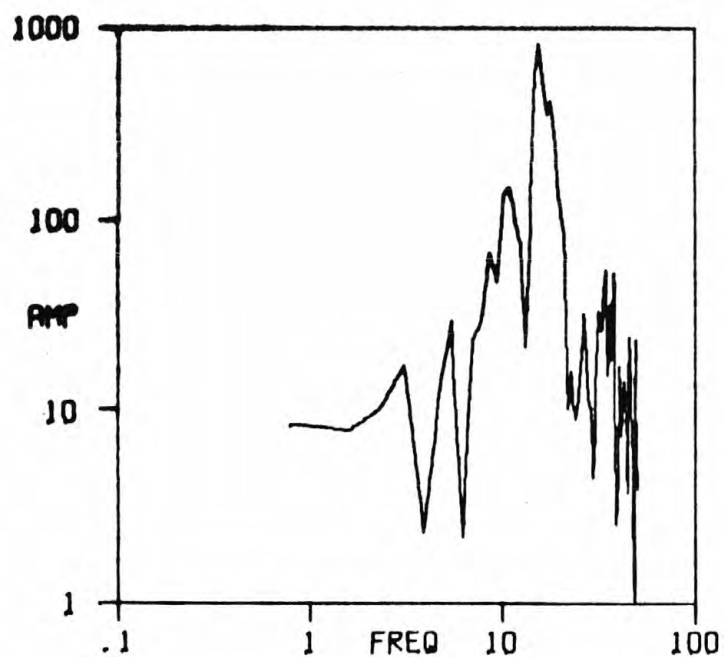
RECORDER LOCATION 491

DISTANCE FROM SHOT (KM) = 57.985

TSCALE (CM/SEC) = 10.0



496



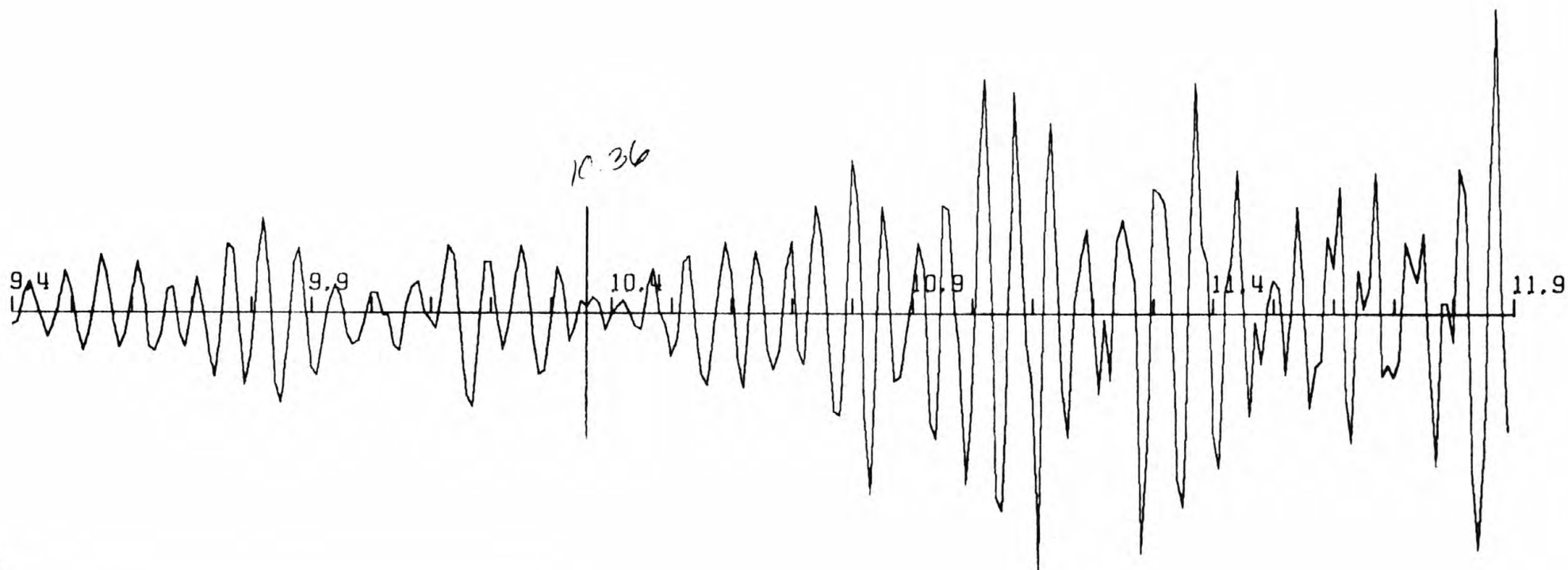
SAUDI REFRACTION PROFILE 15,20 BP

SHOT POINT 4

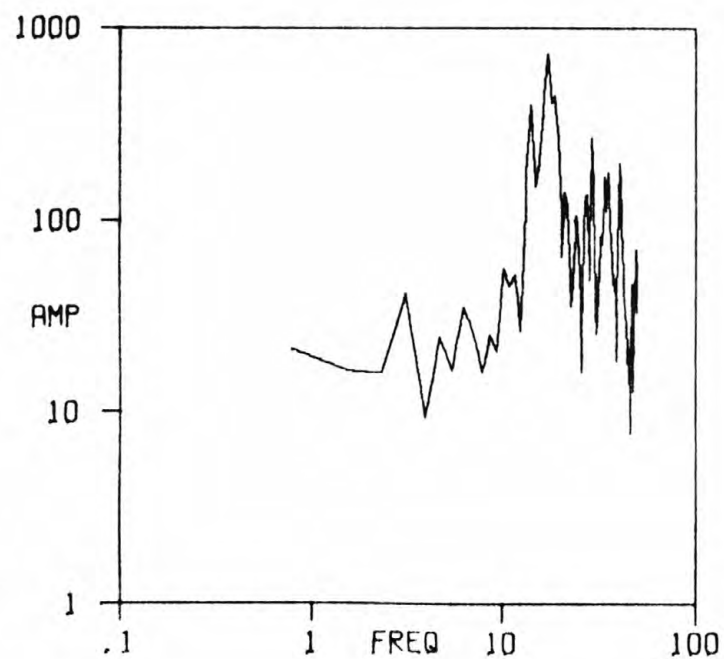
RECORDER LOCATION 490

DISTANCE FROM SHOT (KM) = 59.791

TSCALE (CM/SEC) = 10.0



497



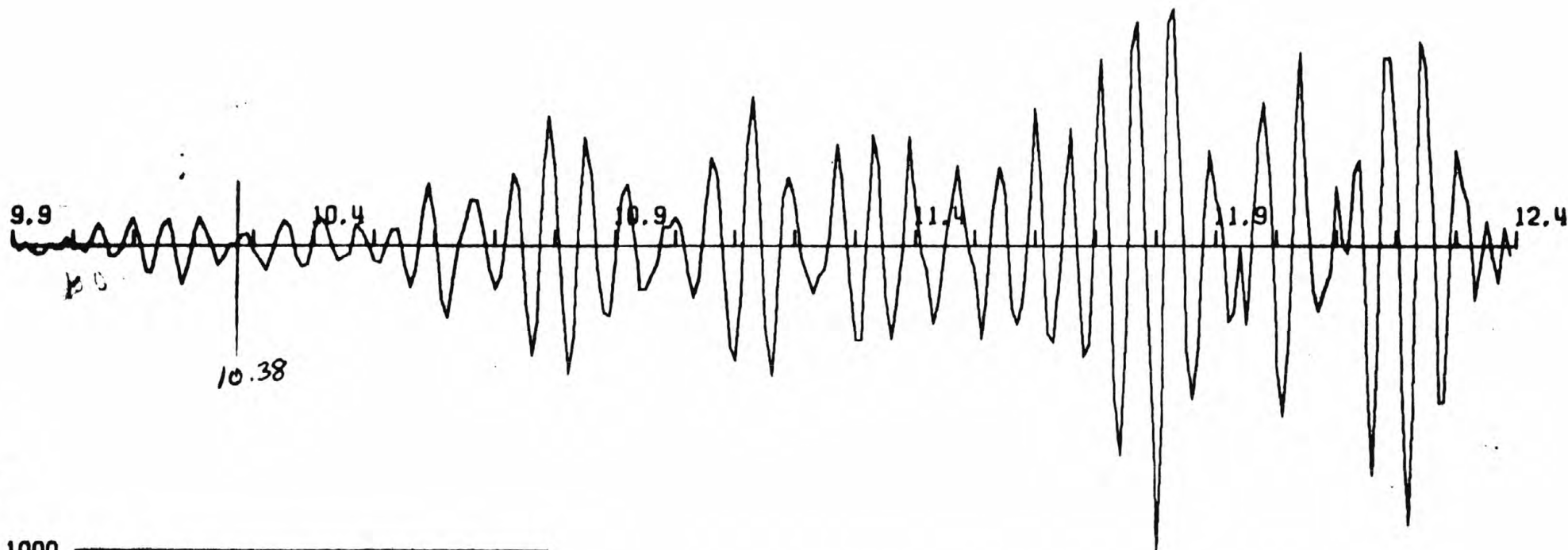
SAUDI REFRACTION PROFILE 15,20 BP

SHOT POINT 4

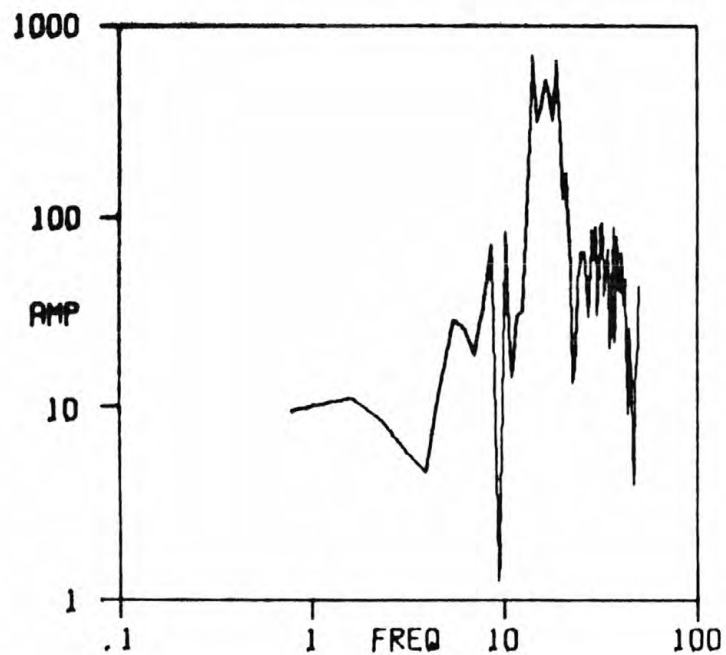
RECORDER LOCATION 489

DISTANCE FROM SHOT (KM) = 62.286

TSCALE (CM/SEC) = 10.0



498



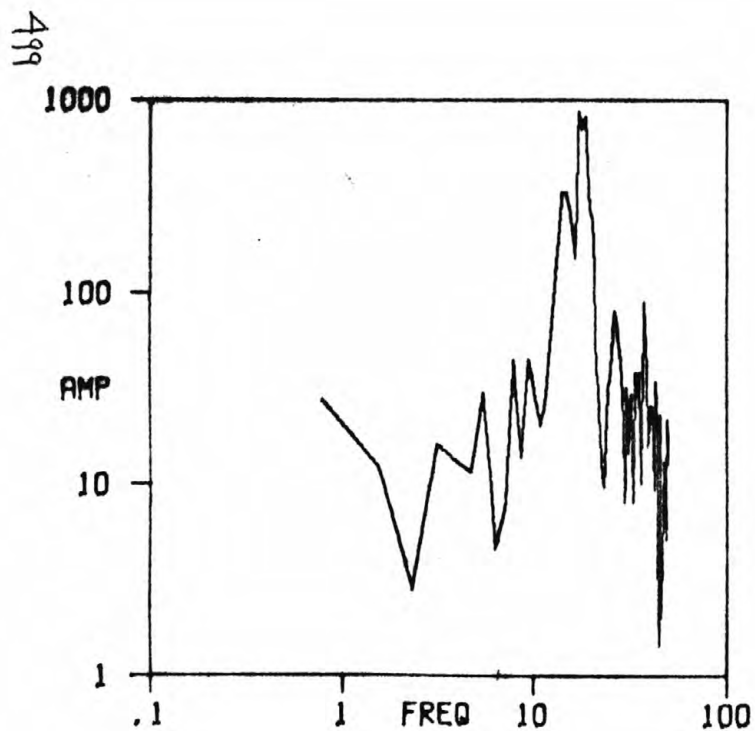
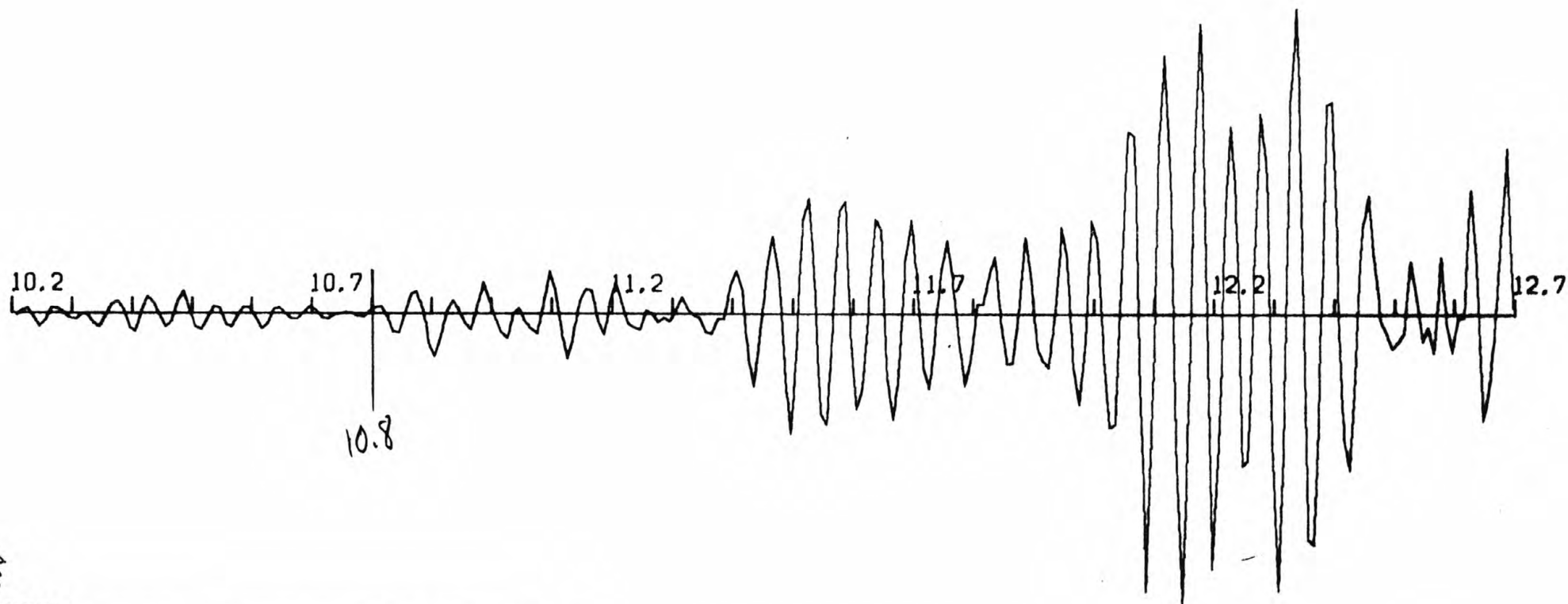
SAUDI REFRACTION PROFILE 15,20 BP

SHOT POINT 4

RECORDER LOCATION 488

DISTANCE FROM SHOT (KM) = 64.994

TSCALE (CM/SEC) = 10.0



SAUDI REFRACTION PROFILE 15,20 BP

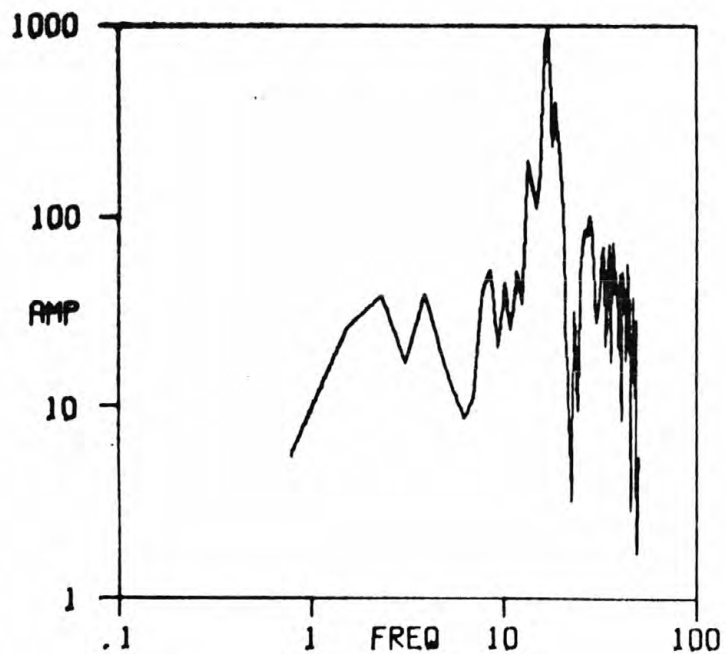
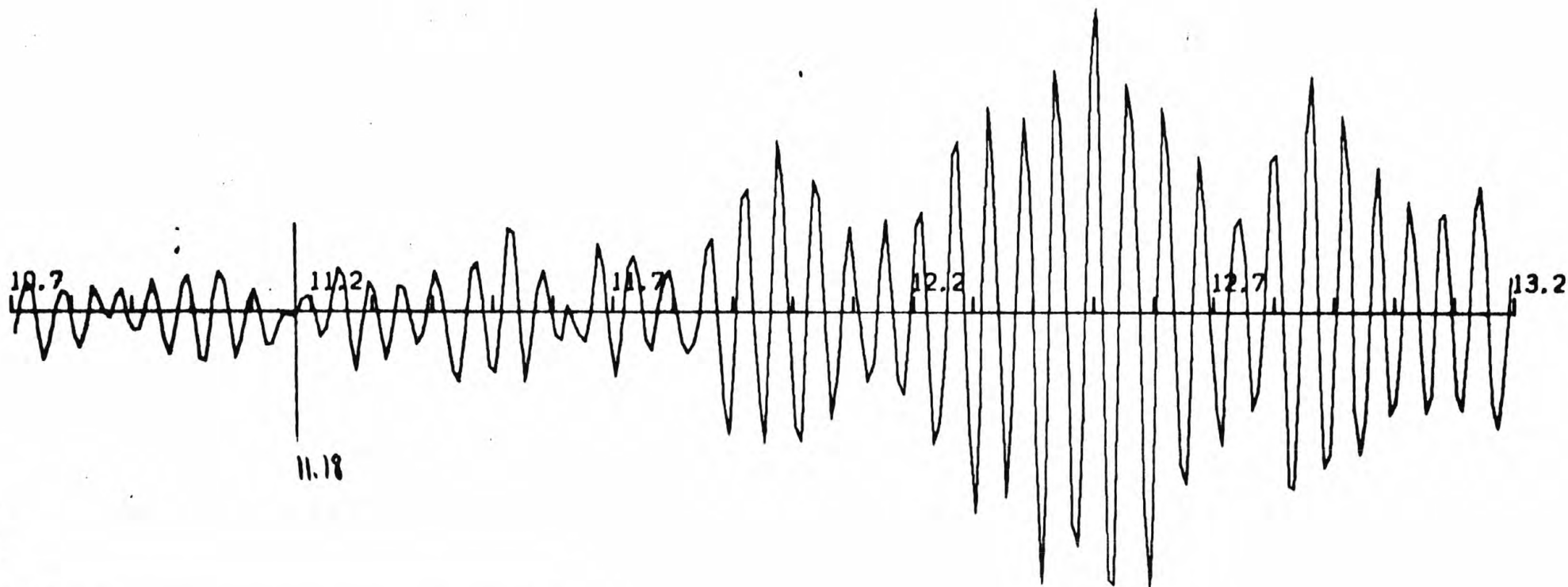
SHOT POINT 4

RECORDER LOCATION 487

DISTANCE FROM SHOT (KM) = 66.889

TSCALE (CM/SEC) = 10.0

500



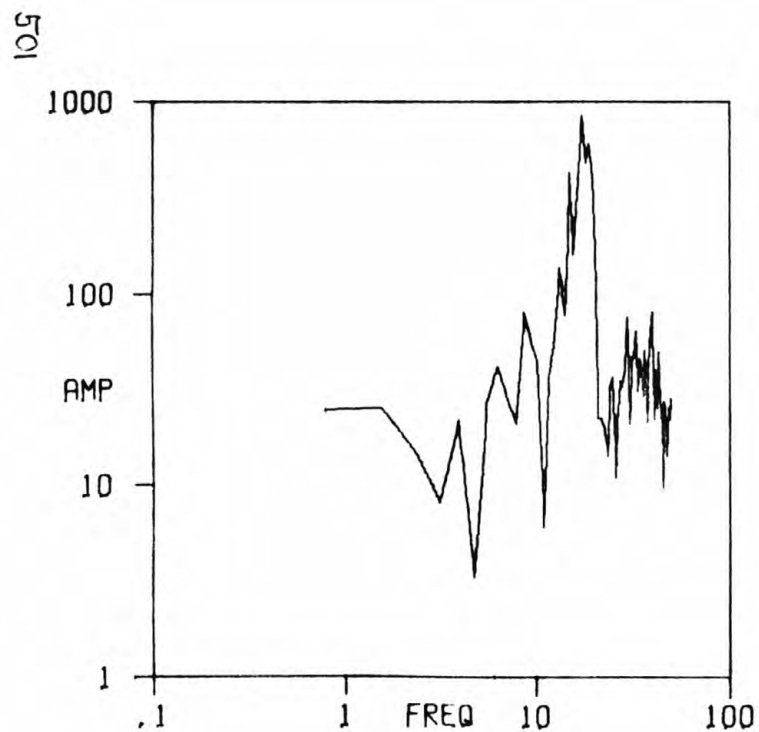
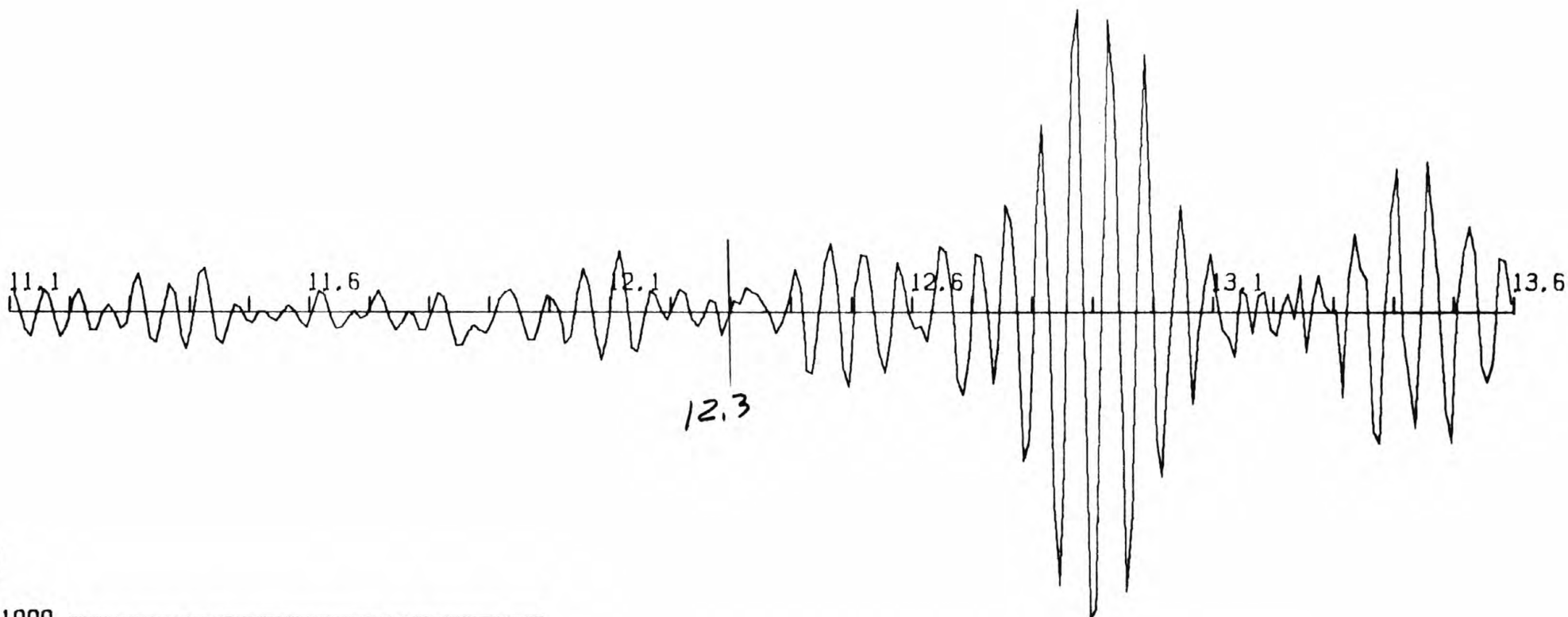
SAUDI REFRACTION PROFILE 15,20 BP

SHOT POINT 4

RECORDER LOCATION 486

DISTANCE FROM SHOT (KM) = 70.115

TSCALE (CM/SEC) = 10.0



SAUDI REFRACTION PROFILE 15,20 BP

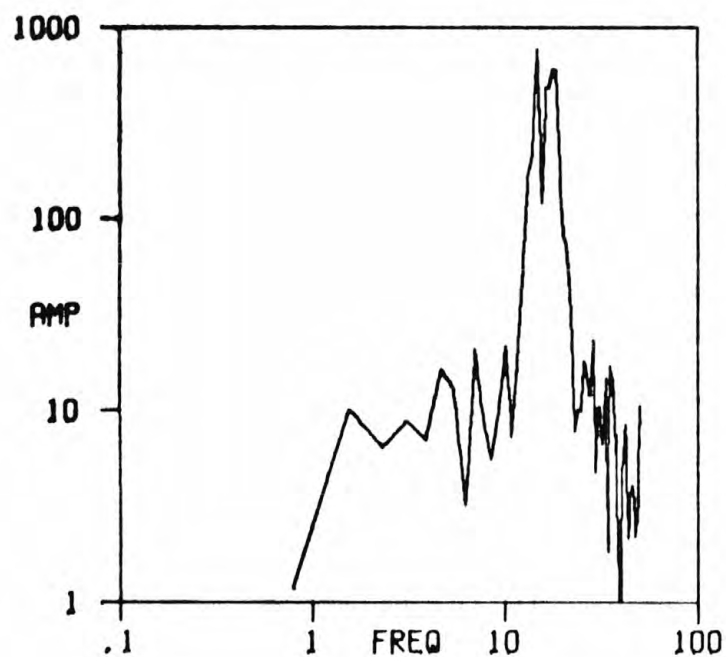
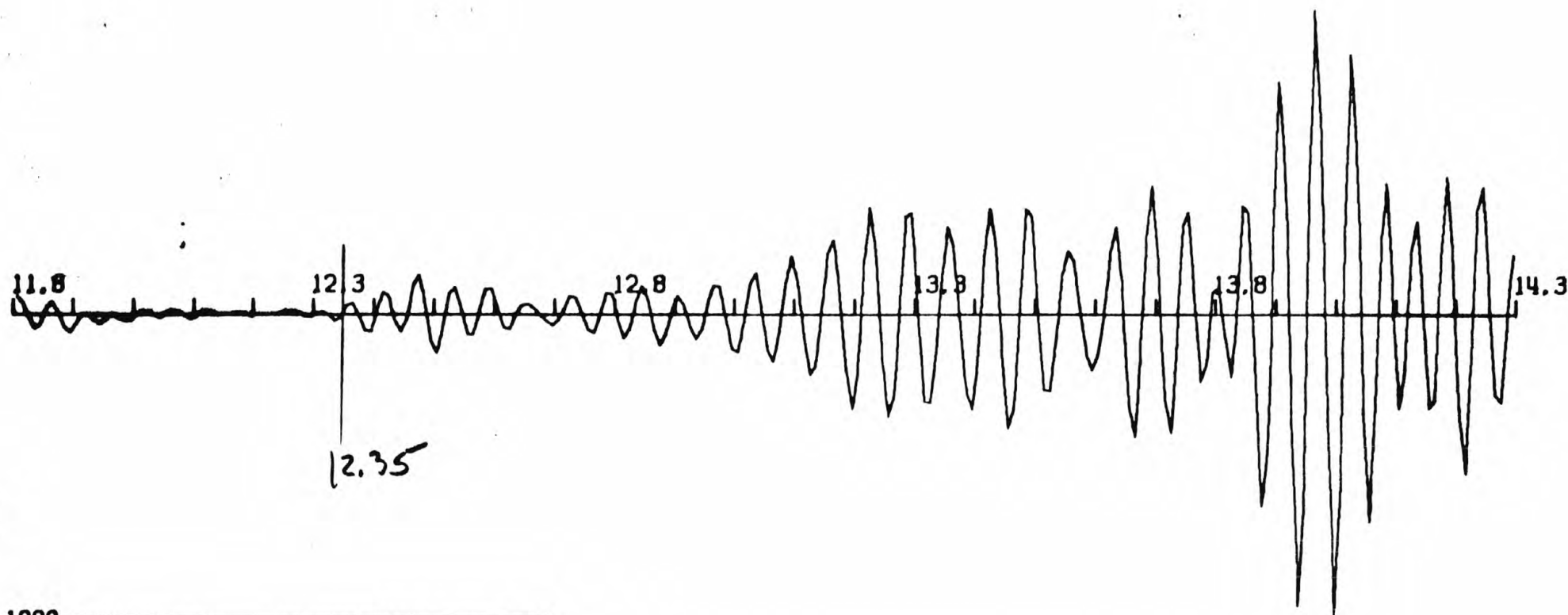
SHOT POINT 4

RECORDER LOCATION 485

DISTANCE FROM SHOT (KM) = 72.582

TSCALE (CM/SEC) = 10.0

502



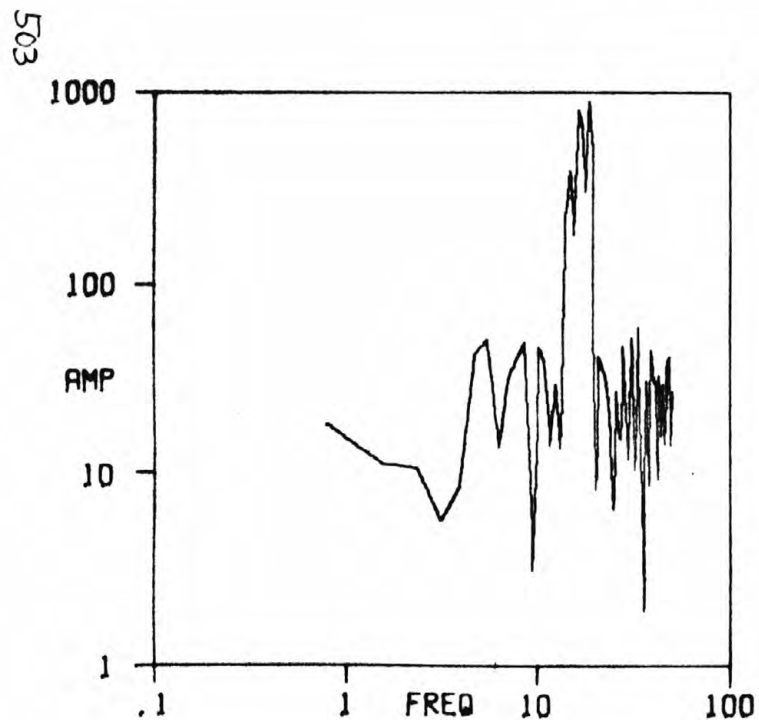
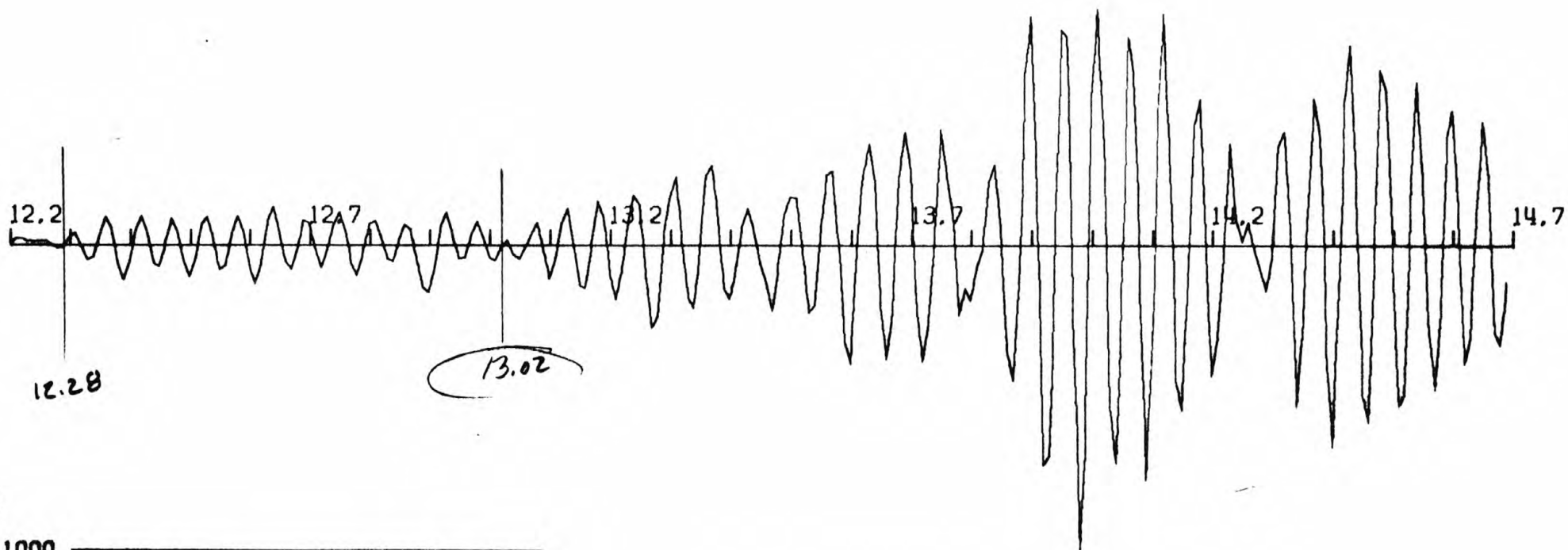
SAUDI REFRACTION PROFILE 15,20 BP

SHOT POINT 4

RECORDER LOCATION 483

DISTANCE FROM SHOT (KM) = 76.662

TSCALE (CM/SEC) = 10.0



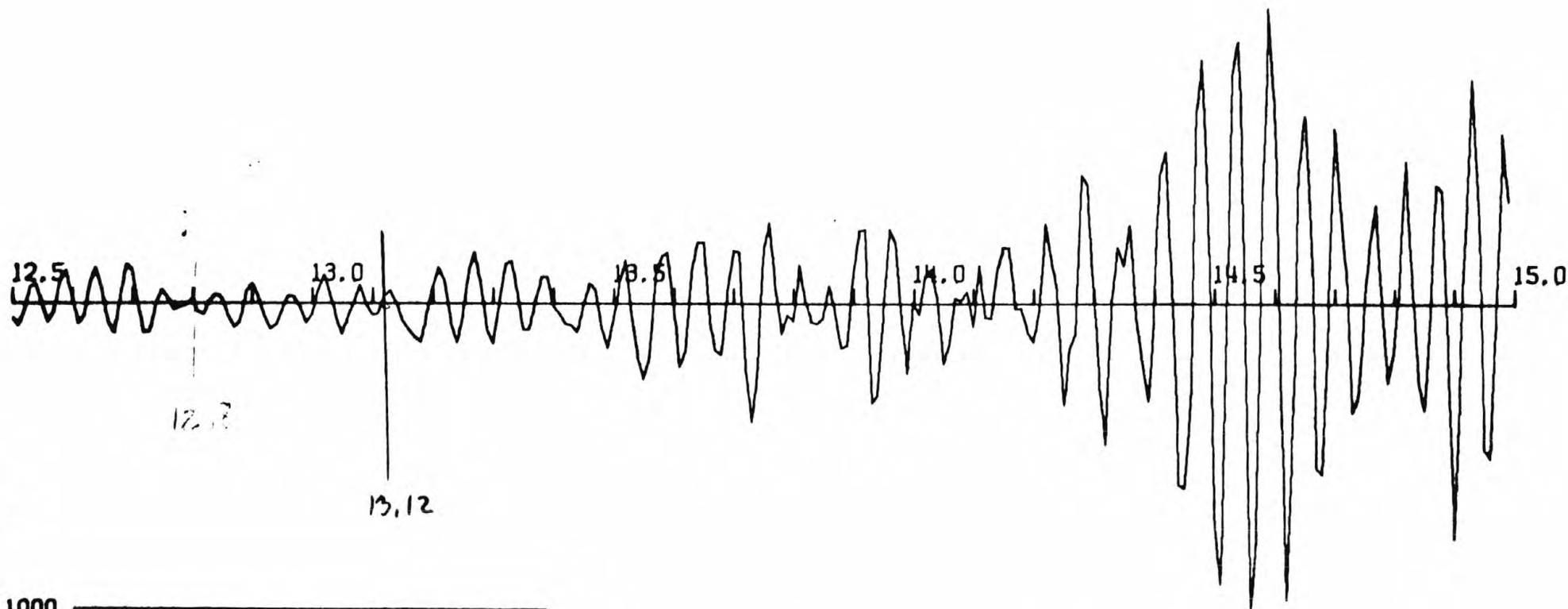
SAUDI REFRACTION PROFILE 15,20 BP

SHOT POINT 4

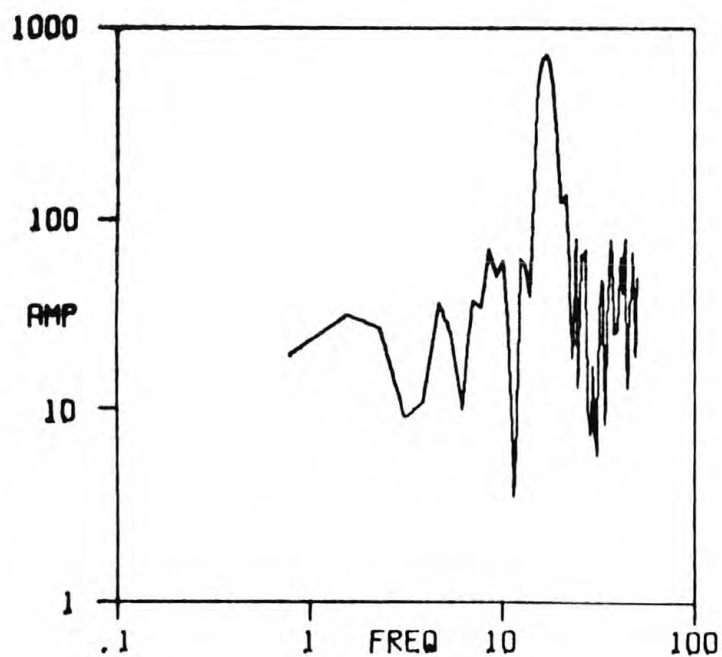
RECORDER LOCATION 482

DISTANCE FROM SHOT (KM) = 78.720

TSCALE (CM/SEC) = 10.0



504



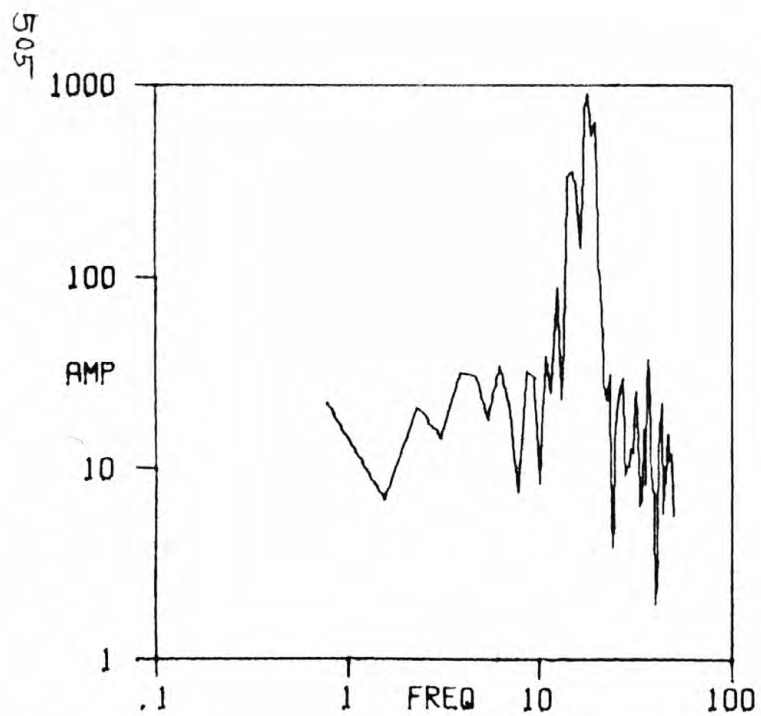
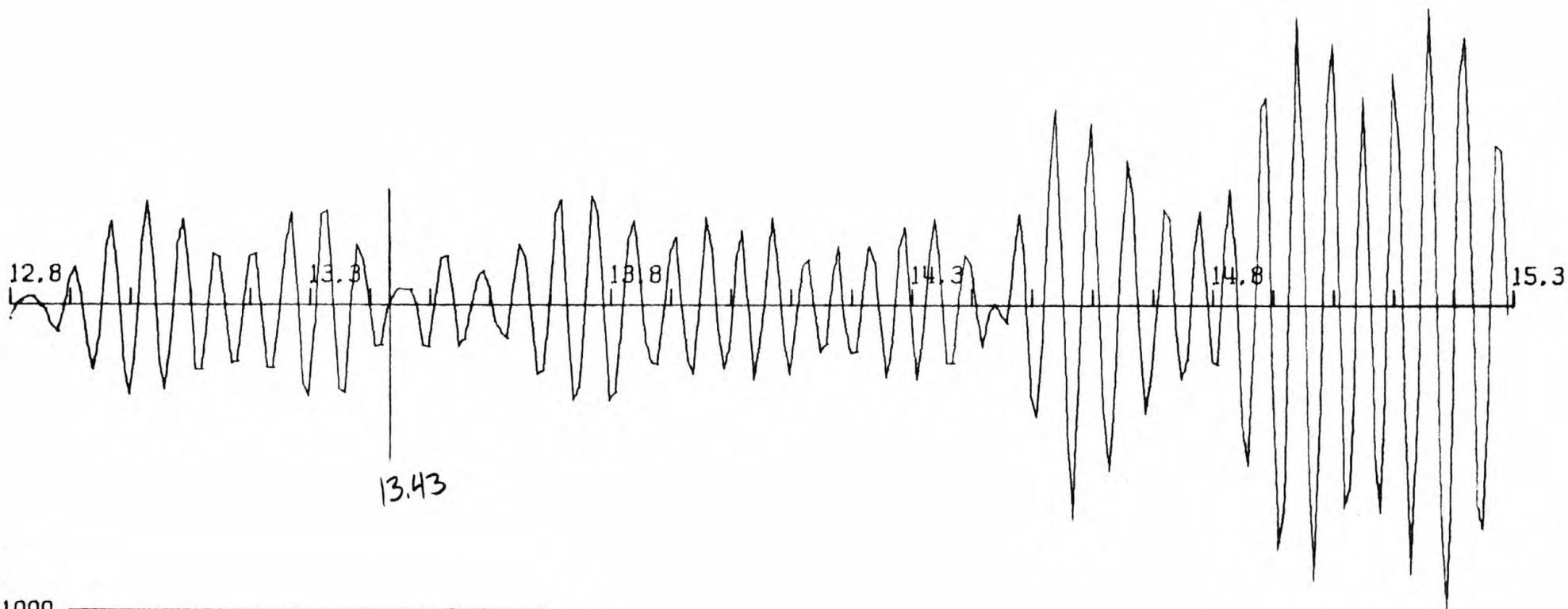
SAUDI REFRACTION PROFILE 15,20 BP

SHOT POINT 4

RECORDER LOCATION 481

DISTANCE FROM SHOT (KM) = 80.765

TSCALE (CM/SEC) = 10.0



SAUDI REFRACTION PROFILE 15,20 BP

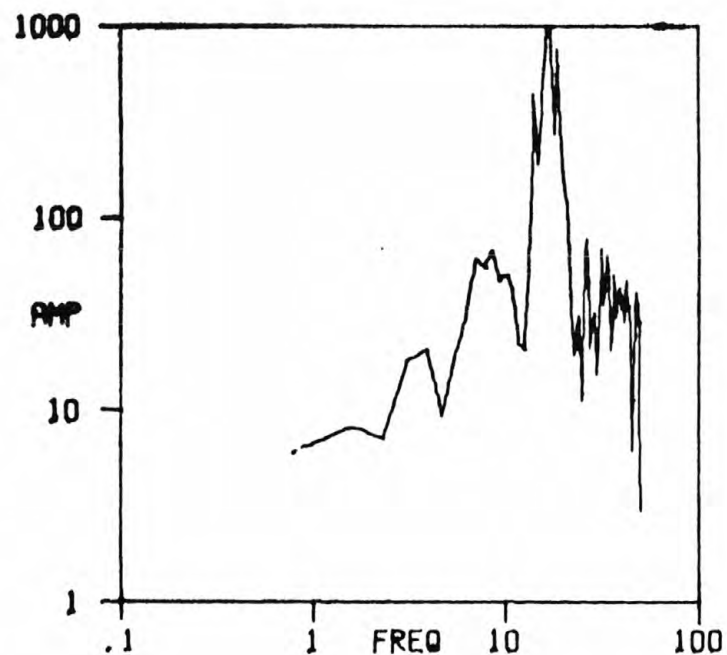
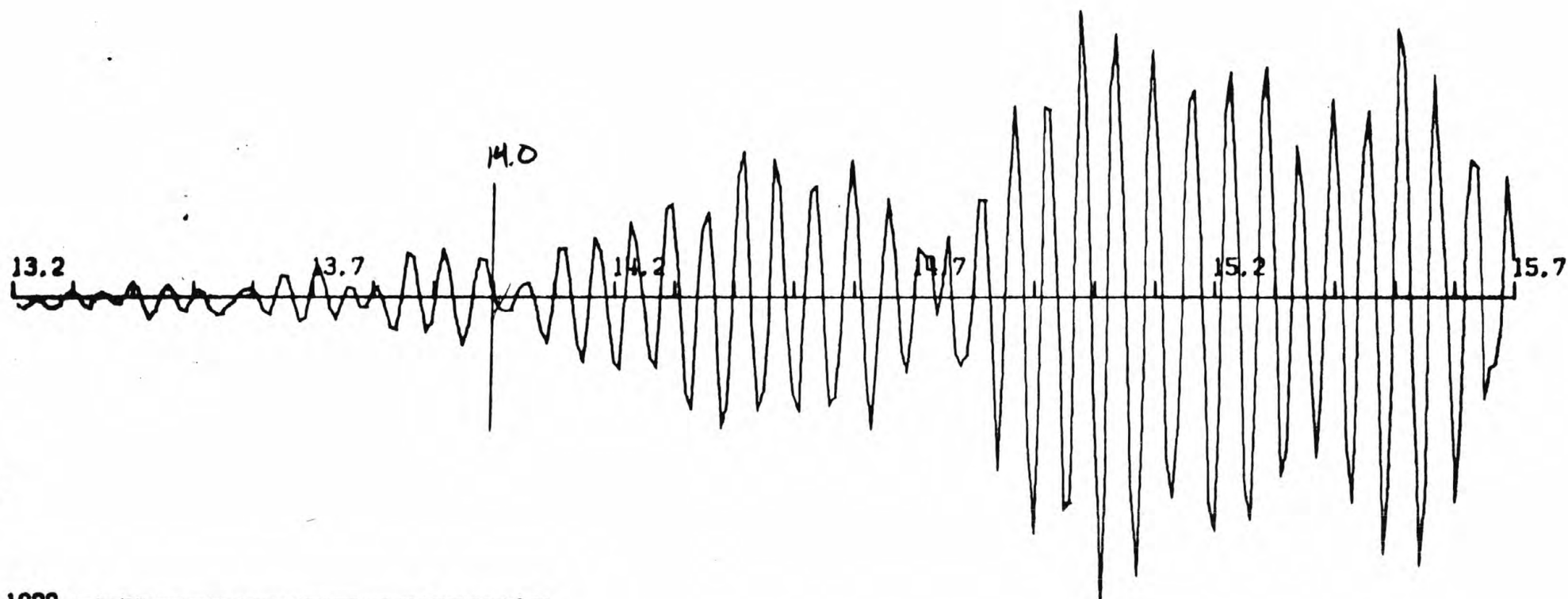
SHOT POINT 4

RECORDER LOCATION 480

DISTANCE FROM SHOT (KM) ≈ 82.682

TSCALE (CM/SEC) ≈ 10.0

506



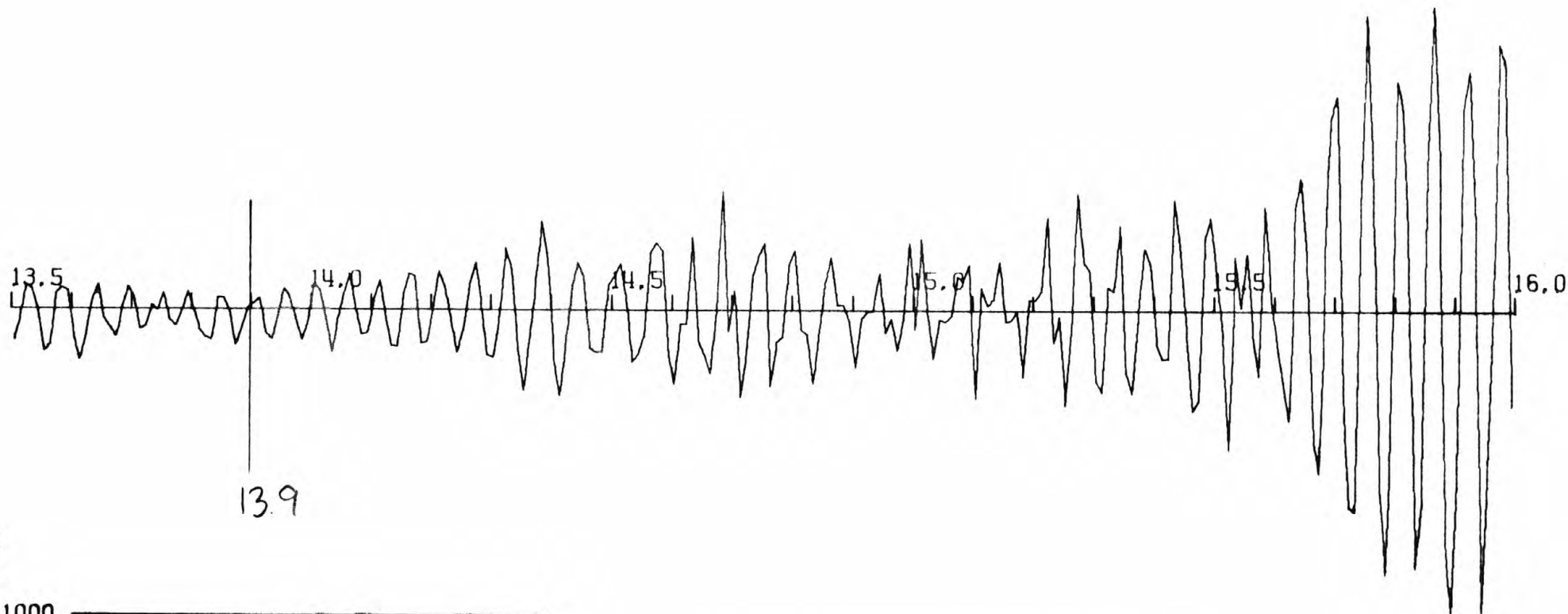
SAUDI REFRACTION PROFILE 15,20 BP

SHOT POINT 4

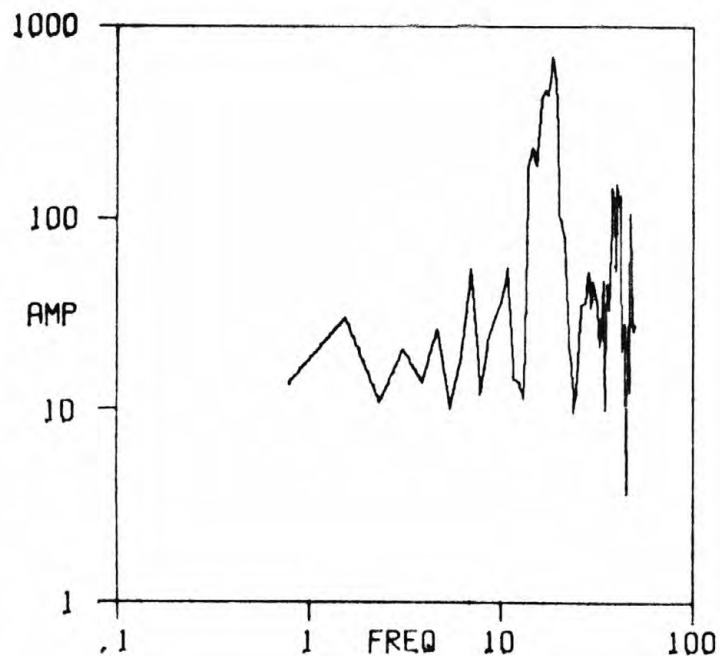
RECORDER LOCATION 479

DISTANCE FROM SHOT (KM) ≈ 84.717

TSCALE (CM/SEC) ≈ 10.0



507



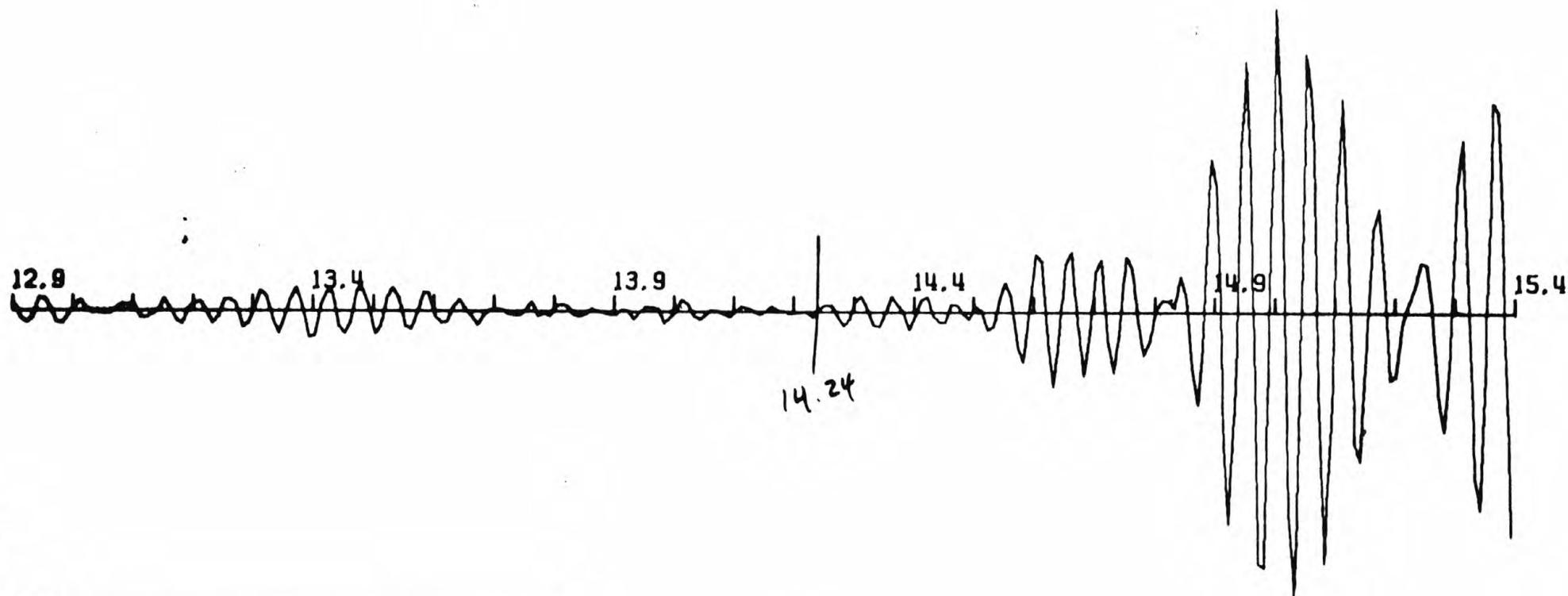
SAUDI REFRACTION PROFILE 15,20 BP

SHOT POINT 4

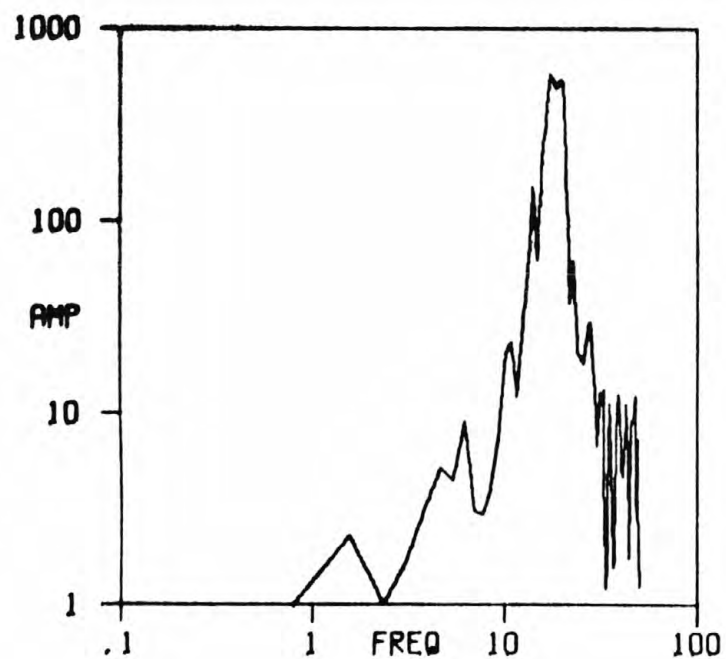
RECORDER LOCATION 478

DISTANCE FROM SHOT (KM) = 86.496

TSCALE (CM/SEC) = 10.0



505



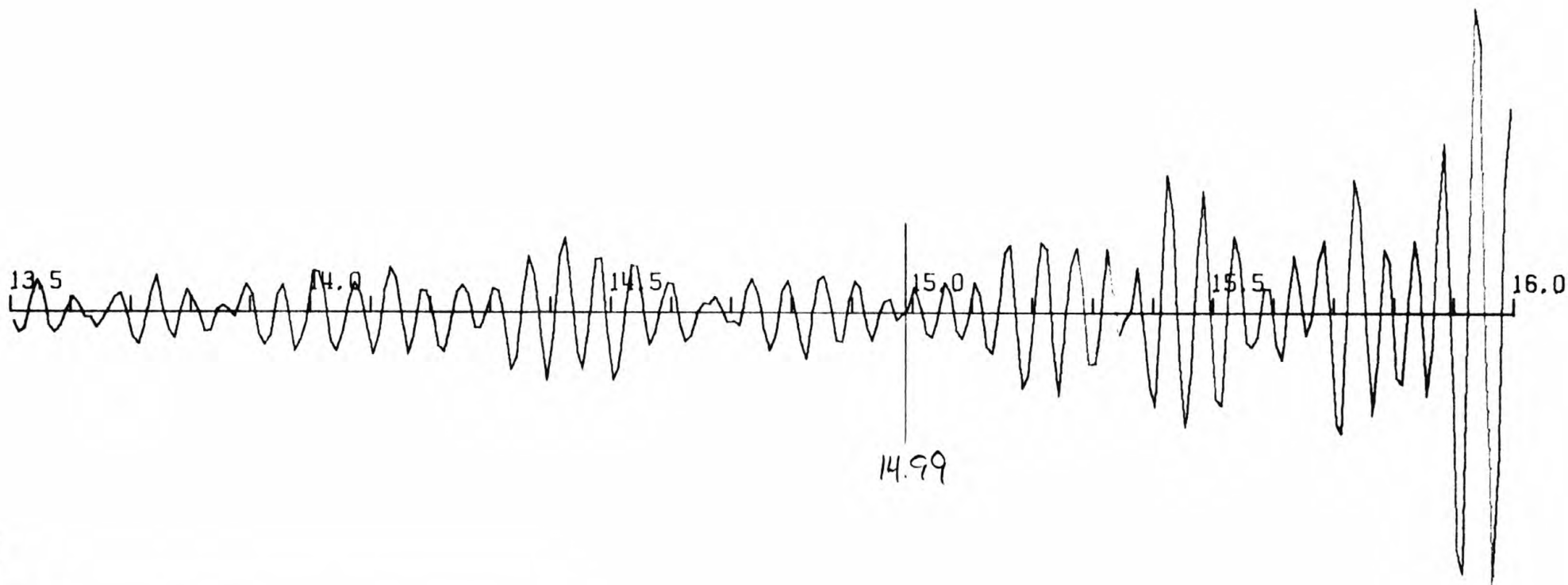
SAUDI REFRACTION PROFILE 15,20 BP

SHOT POINT 4

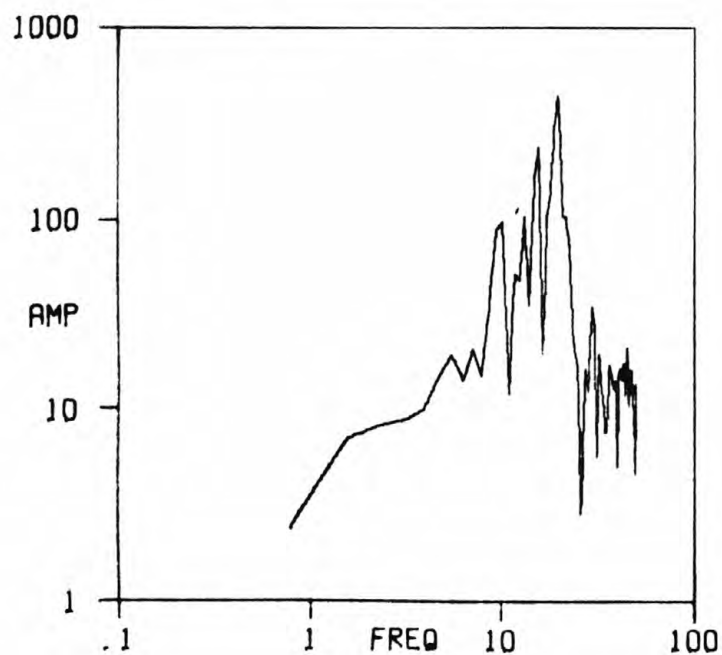
RECORDER LOCATION 477

DISTANCE FROM SHOT (KM) = 88.887

TSCALE (CM/SEC) = 10.0



509



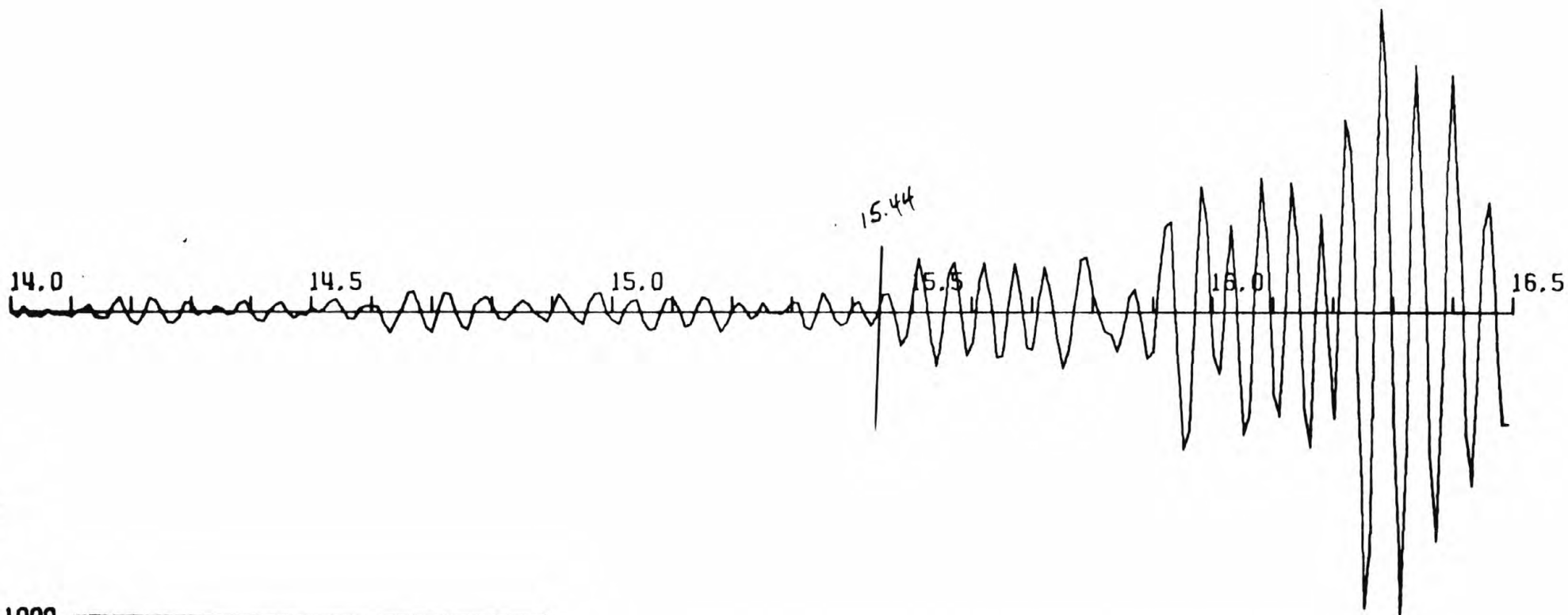
SAUDI REFRACTION PROFILE 15,20 BP

SHOT POINT 4

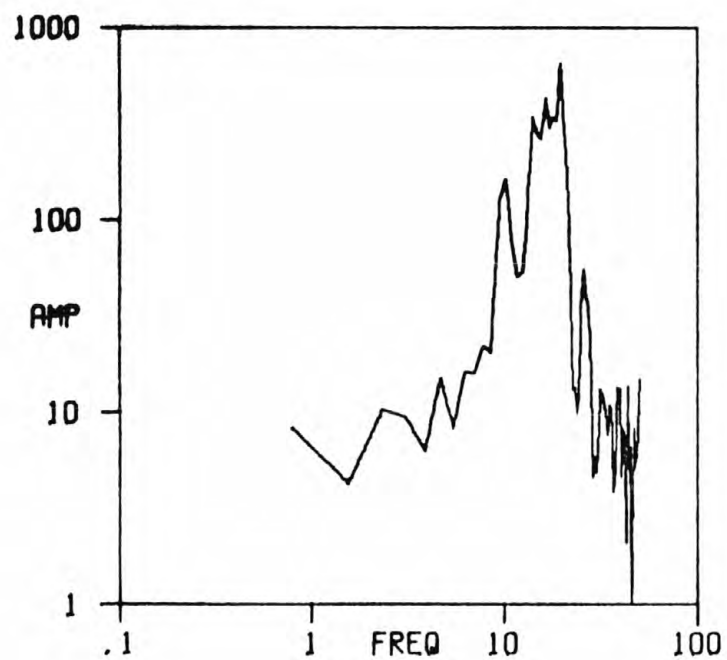
RECORDER LOCATION 475

DISTANCE FROM SHOT (KM) = 92.976

TSCALE (CM/SEC) = 10.0



S10



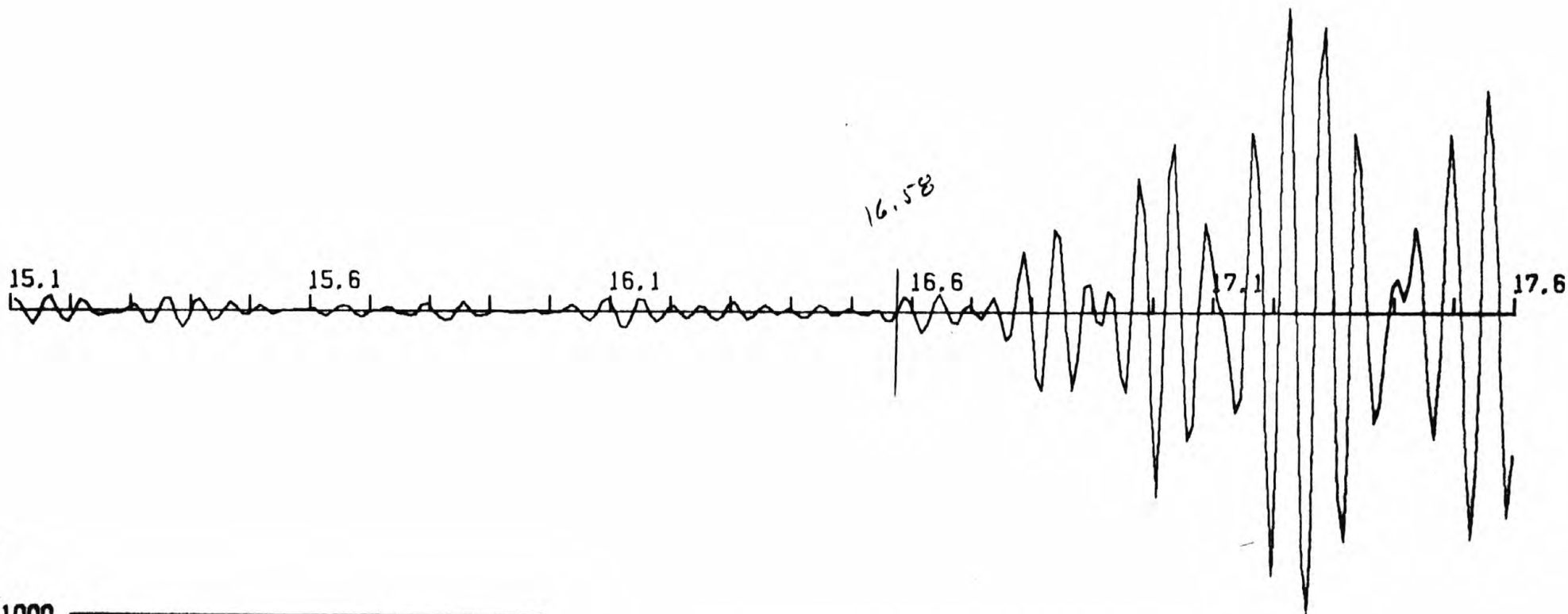
SAUDI REFRACTION PROFILE 15,20 BP

SHOT POINT 4

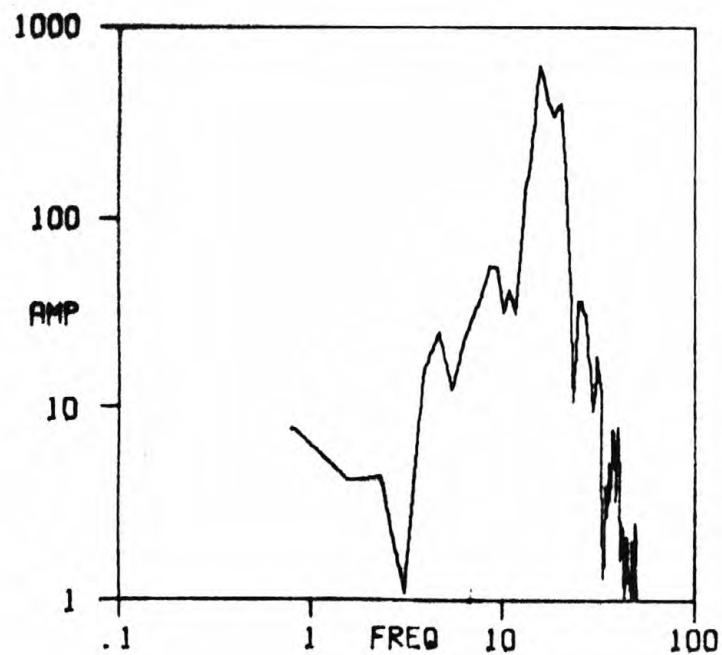
RECORDER LOCATION 474

DISTANCE FROM SHOT (KM) = 95.478

TSCALE (CM/SEC) = 10.0



115



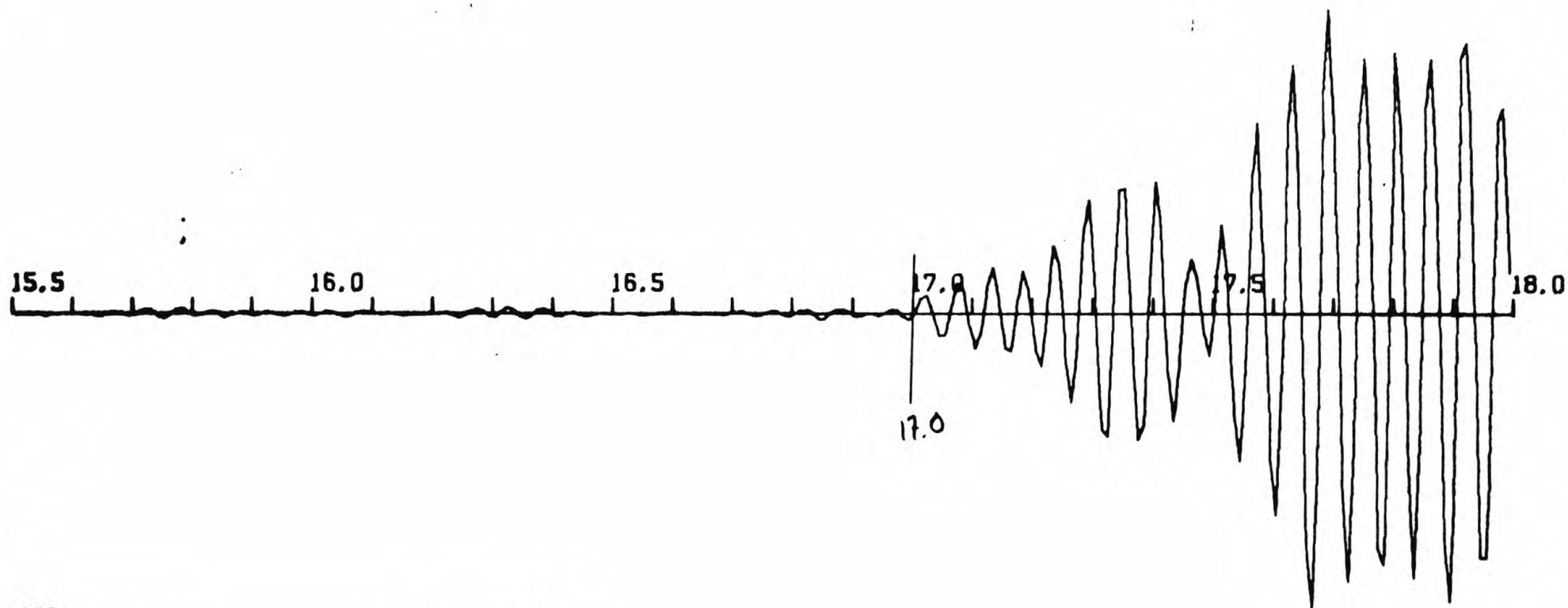
SAUDI REFRACTION PROFILE 15,20 BP

SHOT POINT 4

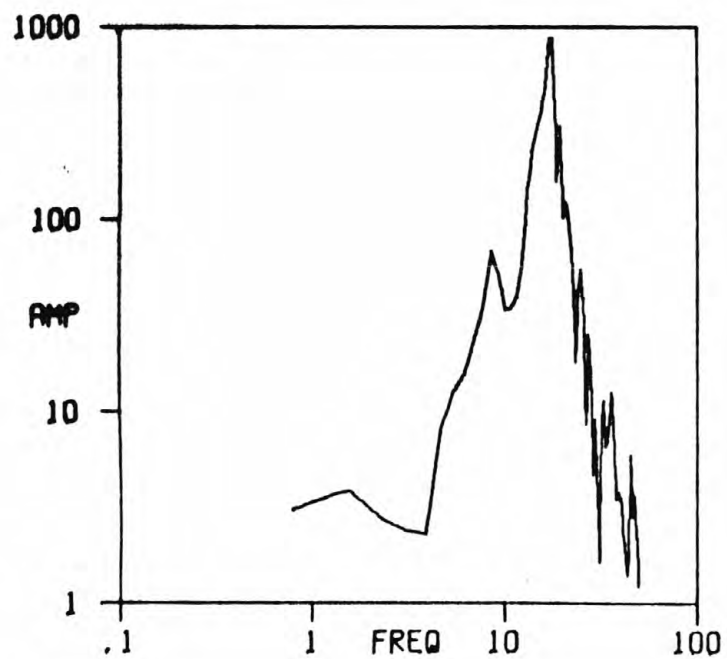
RECORDER LOCATION 471

DISTANCE FROM SHOT (KM) = 102.292

TSCALE (CM/SEC) = 10.0



512



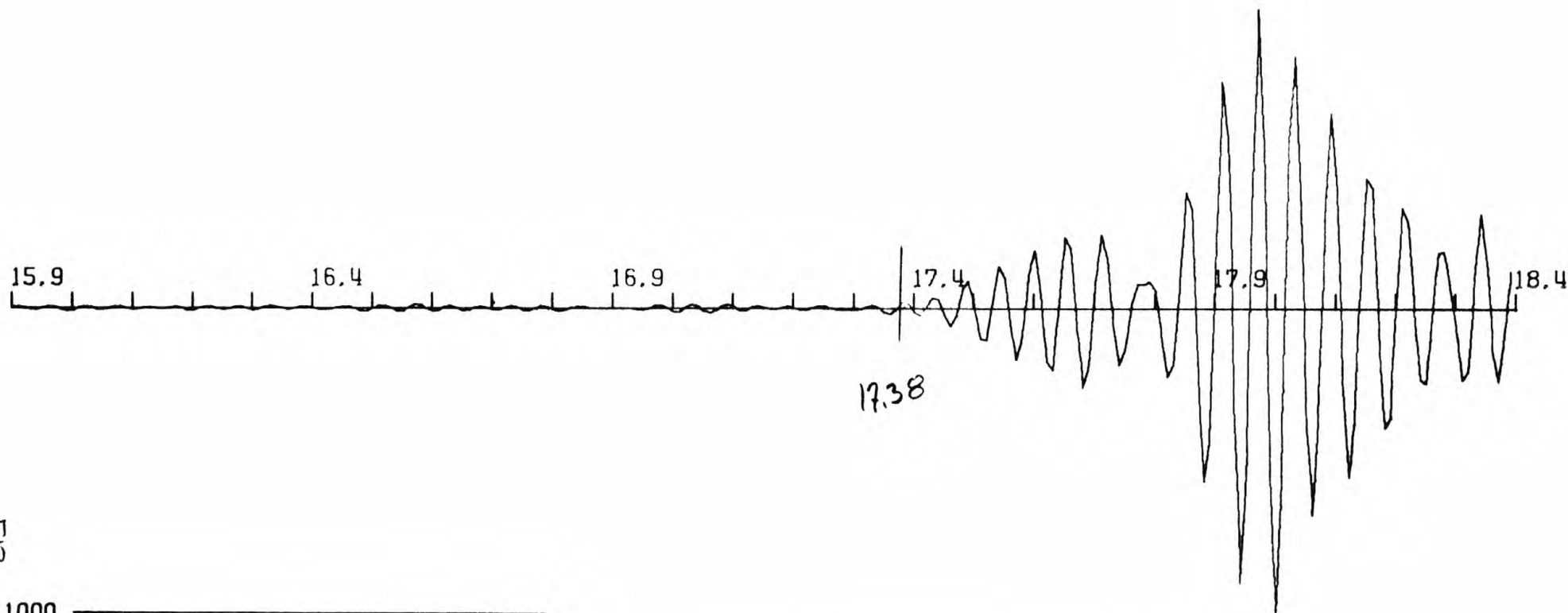
SAUDI REFRACTION PROFILE 15,20 BP

SHOT POINT 4

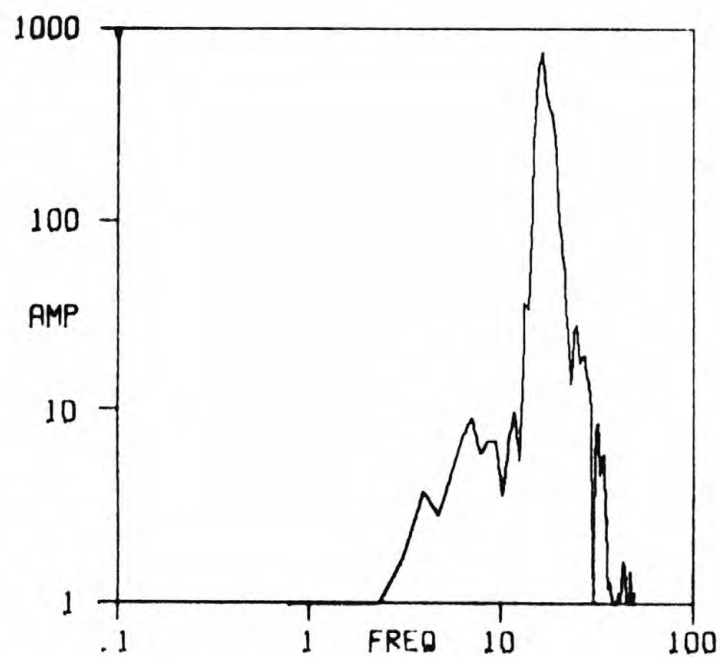
RECORDER LOCATION 470

DISTANCE FROM SHOT (KM) = 104.438

TSCALE (CM/SEC) = 10.0



513



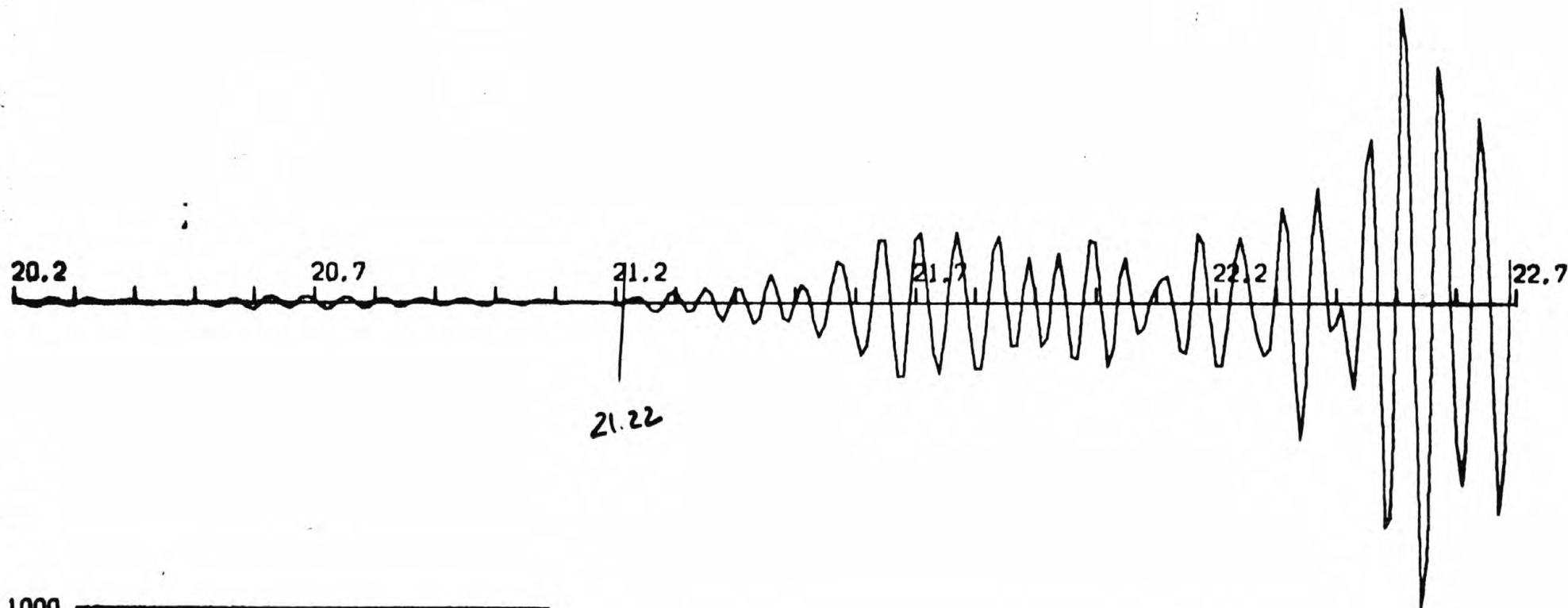
SAUDI REFRACTION PROFILE 15,20 BP

SHOT POINT 4

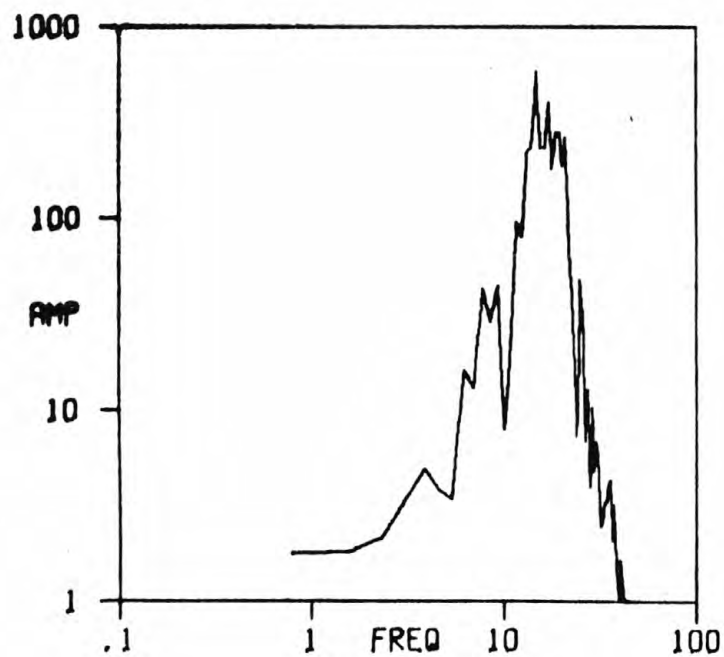
RECORDER LOCATION 469

DISTANCE FROM SHOT (KM) = 106.822

TSCALE (CM/SEC) = 10.0



514



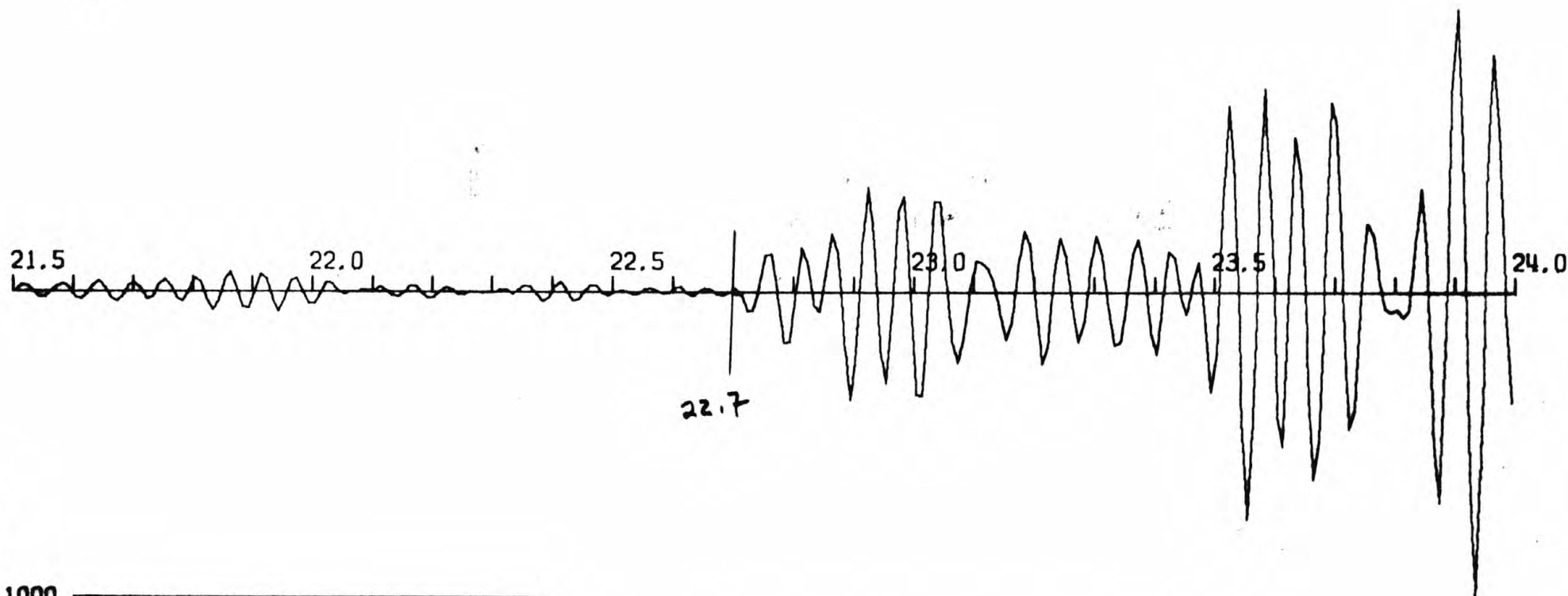
SAUDI REFRACTION PROFILE 15,20 BP

SHOT POINT 4

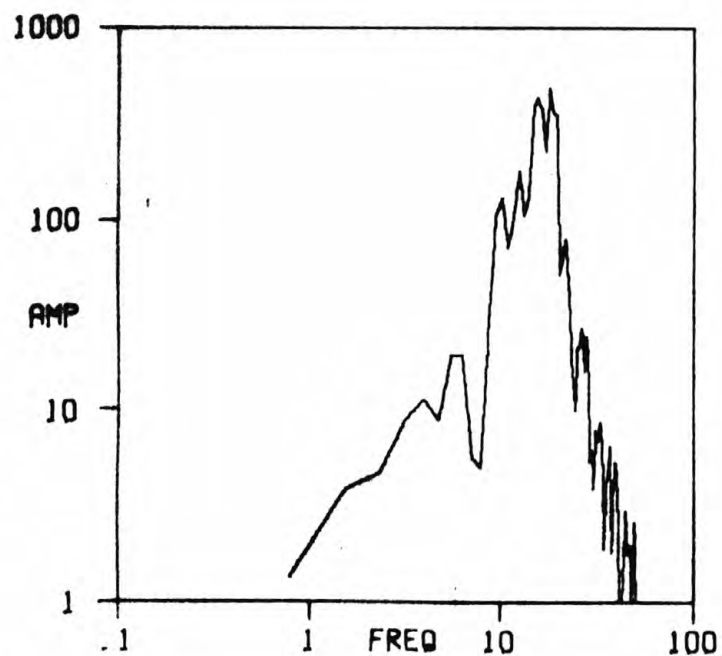
RECORDER LOCATION 457

DISTANCE FROM SHOT (KM) = 133.025

TSCALE (CM/SEC) = 10.0



515



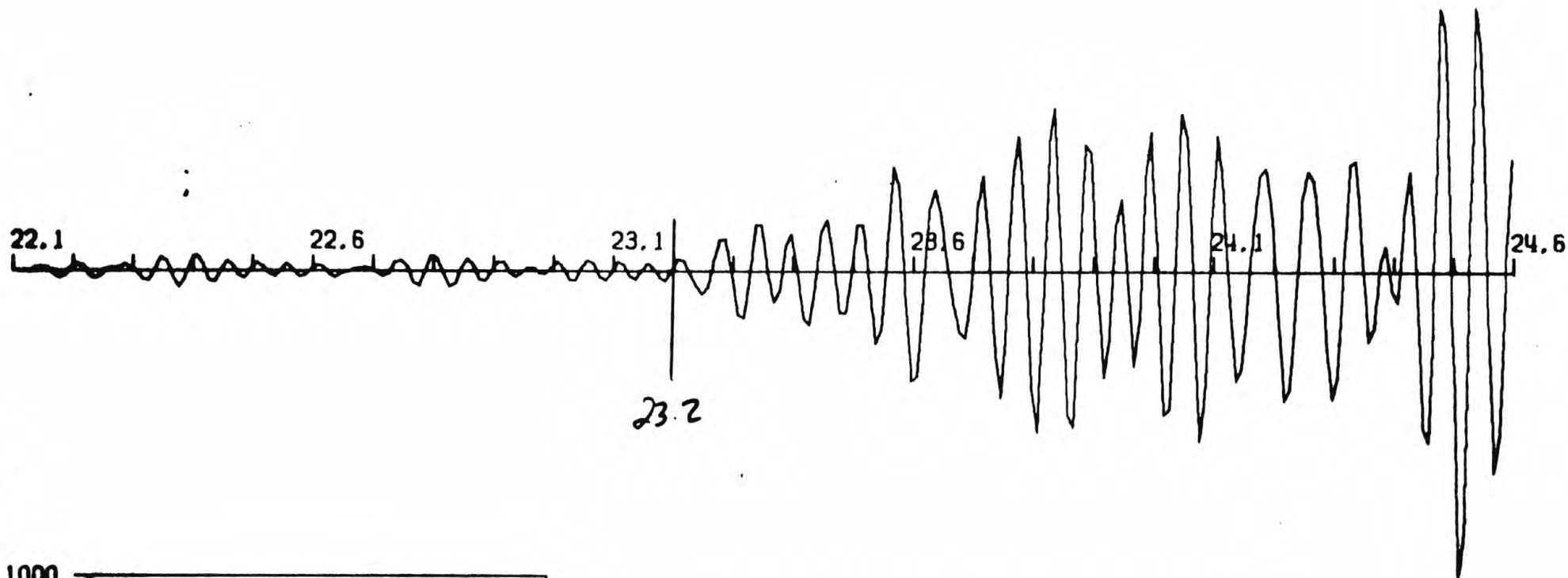
SAUDI REFRACTION PROFILE 15,20 BP

SHOT POINT 4

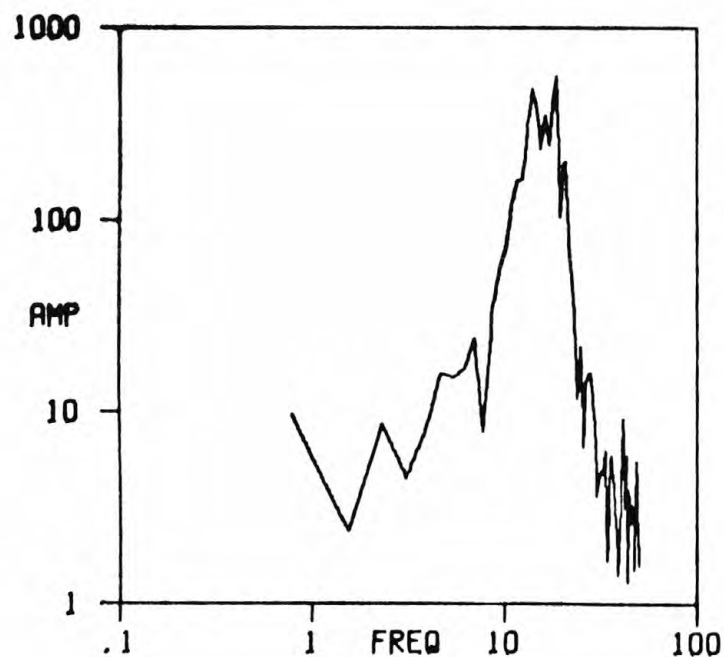
RECORDER LOCATION 454

DISTANCE FROM SHOT (KM) = 140.794

TSCALE (CM/SEC) = 10.0



515



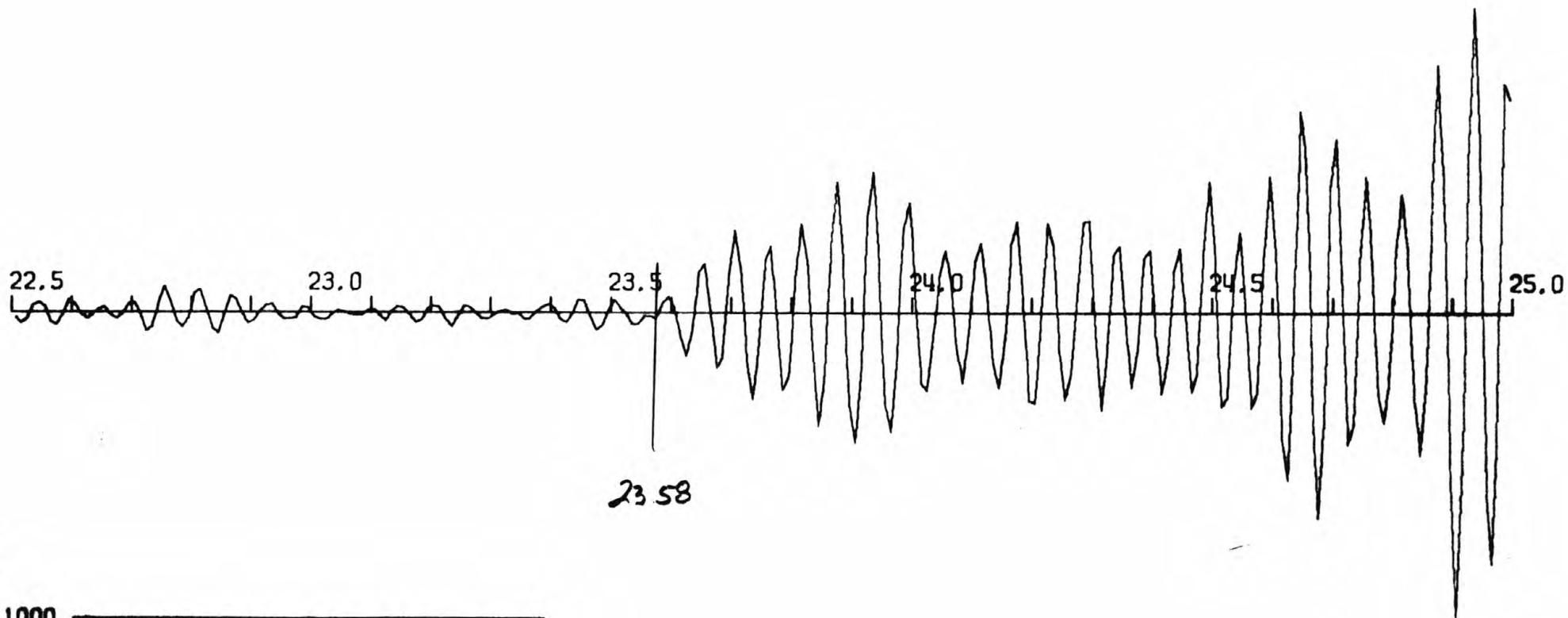
SAUDI REFRACTION PROFILE 15,20 BP

SHOT POINT 4

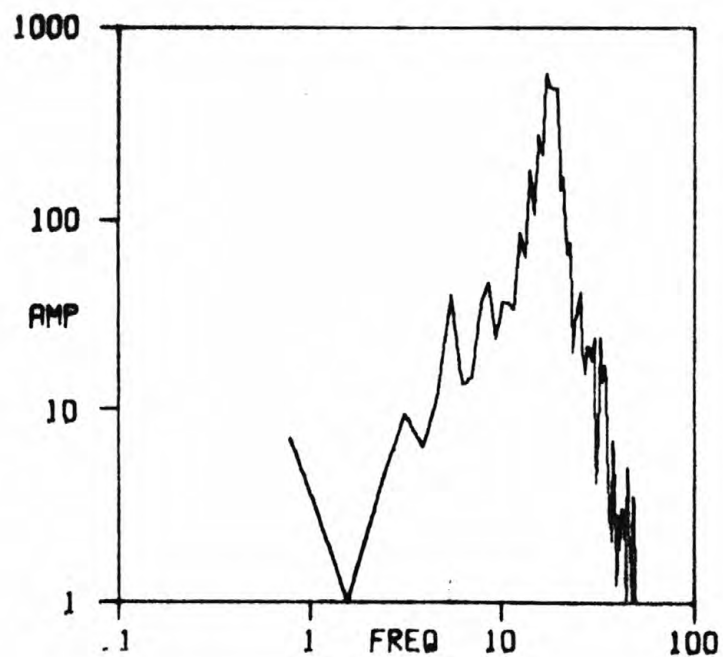
RECORDER LOCATION 442

DISTANCE FROM SHOT (KM) = 144.410

TSCALE (CM/SEC) = 10.0



517



SAUDI REFRACTION PROFILE 15,20 BP

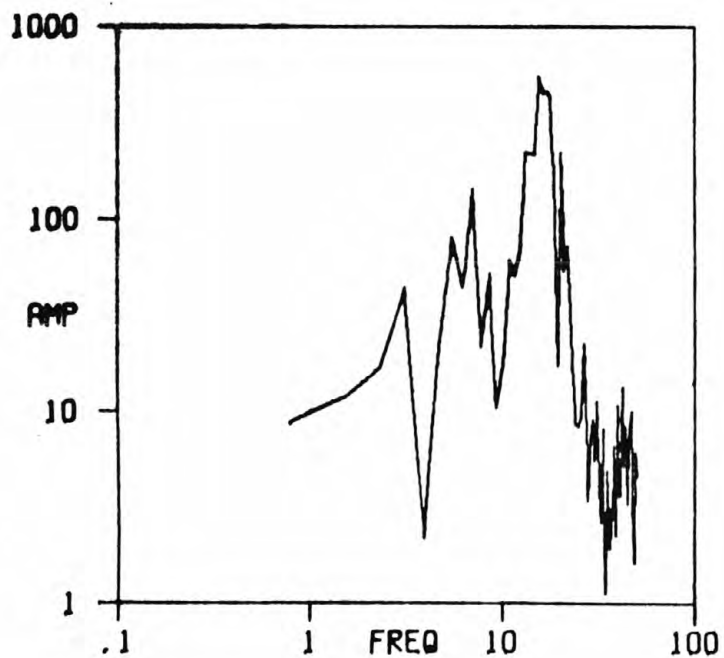
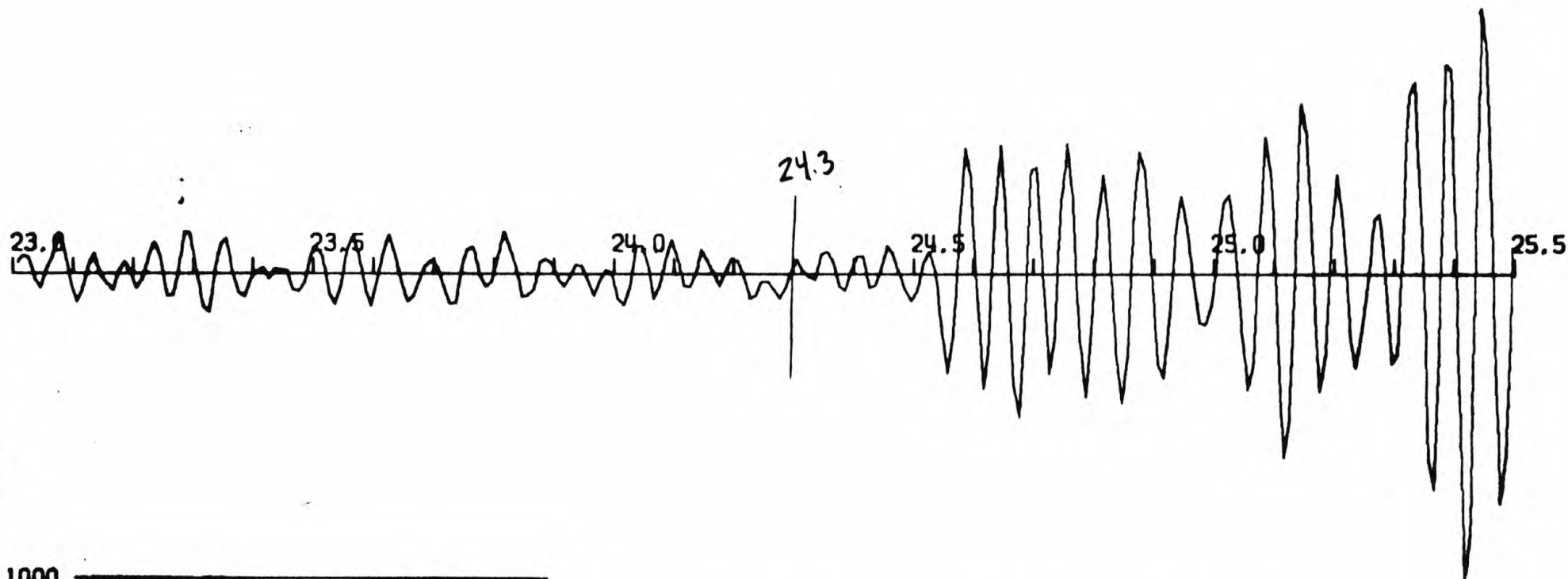
SHOT POINT 4

RECORDER LOCATION 451

DISTANCE FROM SHOT (KM) = 146.444

TSCALE (CM/SEC) = 10.0

518



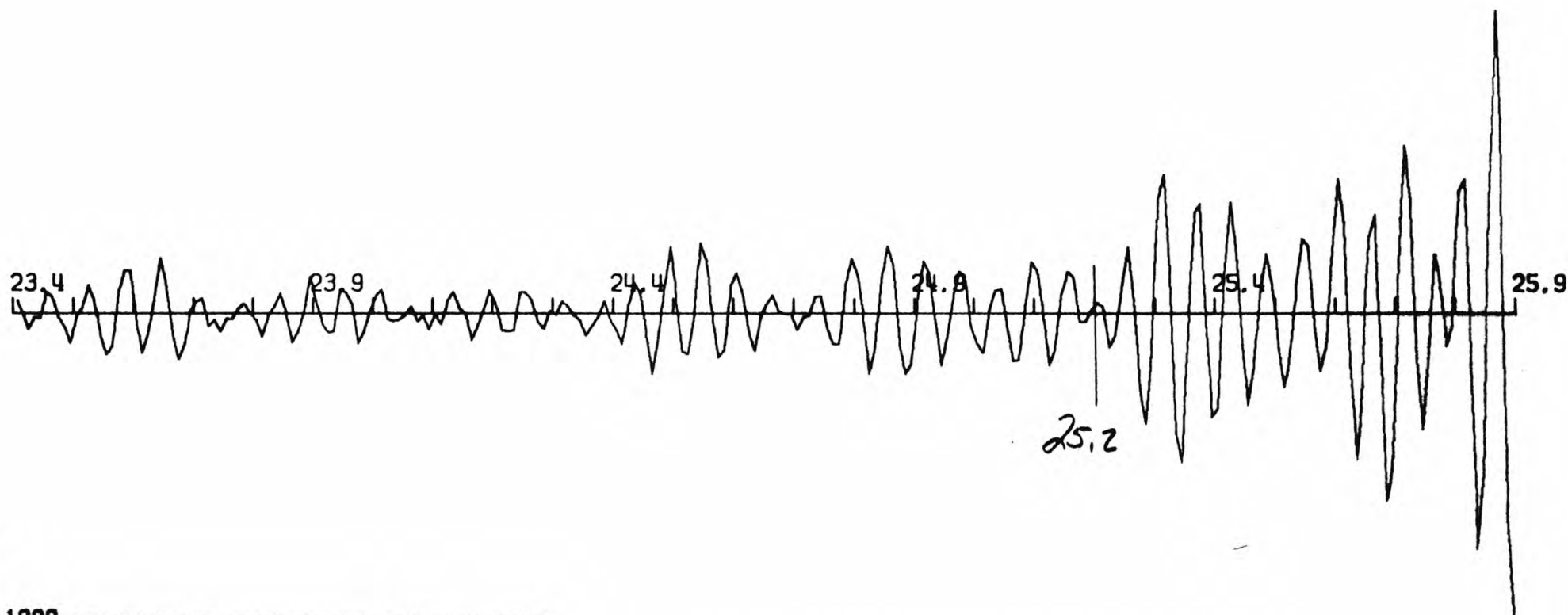
SAUDI REFRACTION PROFILE 15,20 BP

SHOT POINT 4

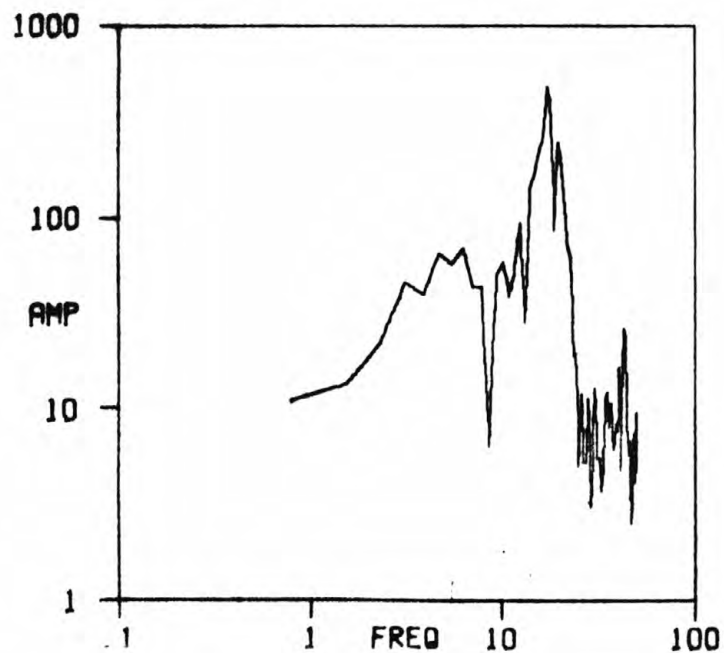
RECORDER LOCATION 449

DISTANCE FROM SHOT (KM) = 149.688

TSCALE (CM/SEC) = 10.0



519



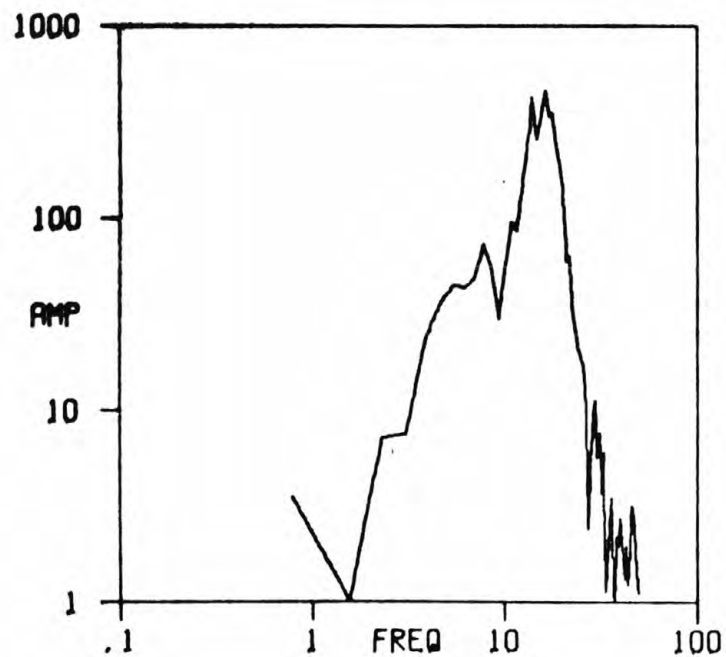
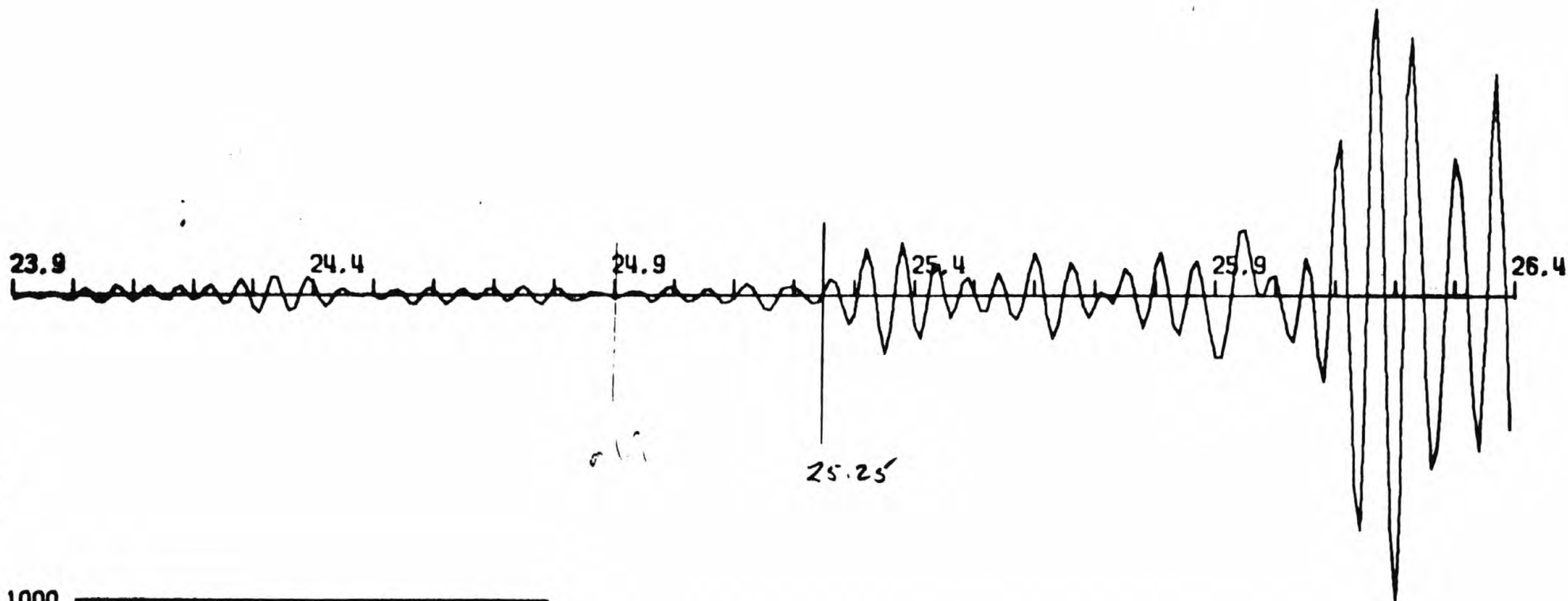
SAUDI REFRACTION PROFILE 15,20 BP

SHOT POINT 4

RECORDER LOCATION 448

DISTANCE FROM SHOT (KM) = 152.023

TSCALE (CM/SEC) = 10.0



SAUDI REFRACTION PROFILE 15,20 BP

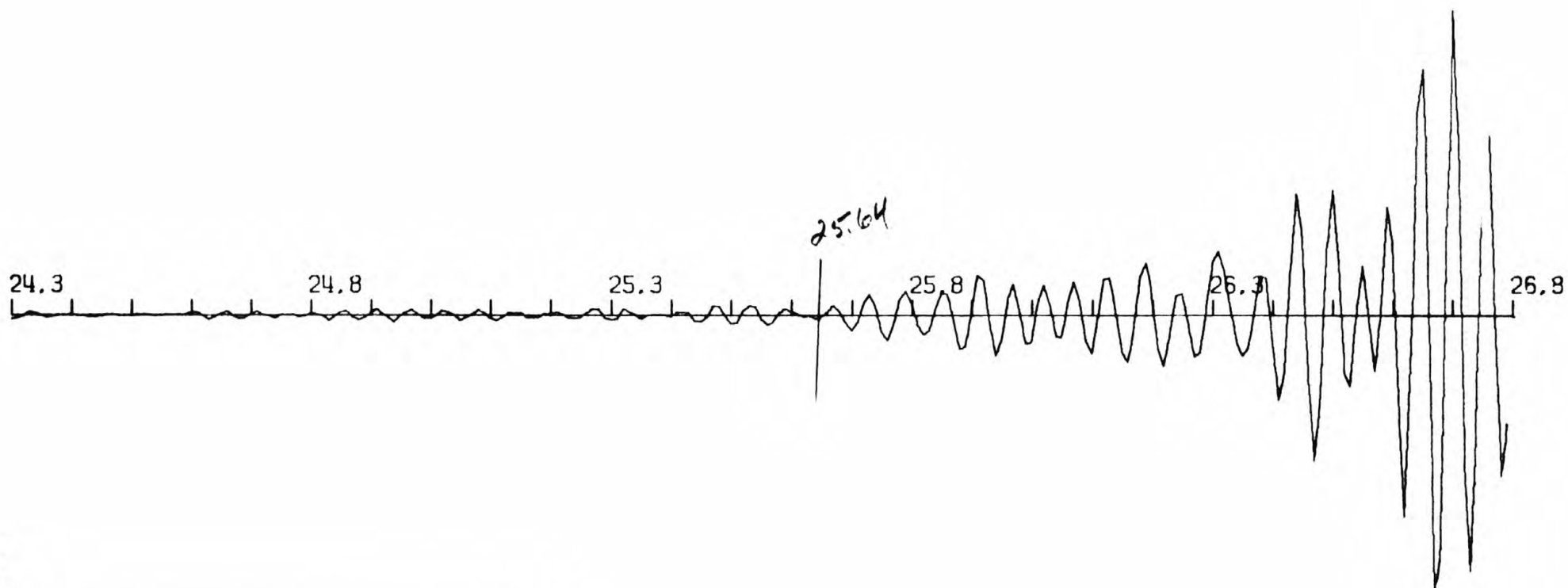
SHOT POINT 4

RECORDER LOCATION 447

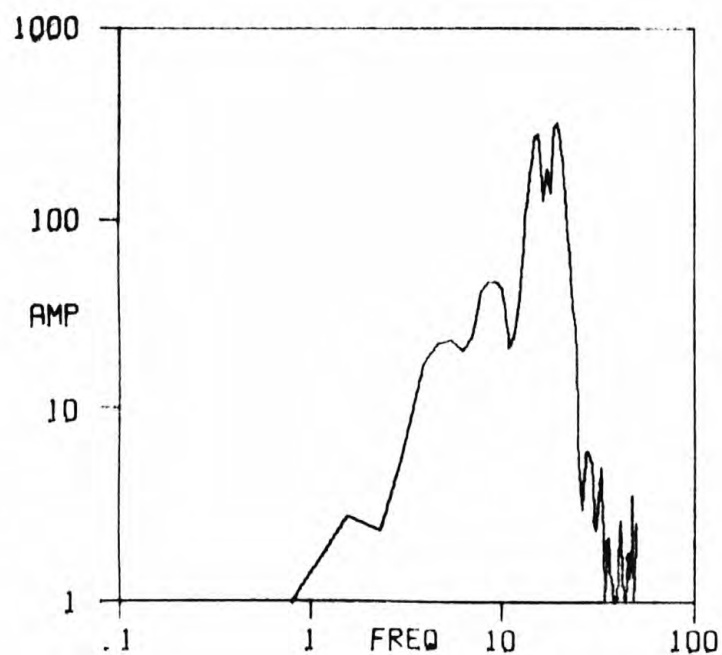
DISTANCE FROM SHOT (KM) = 154.992

TSCALE (CM/SEC) = 10.0

520



521



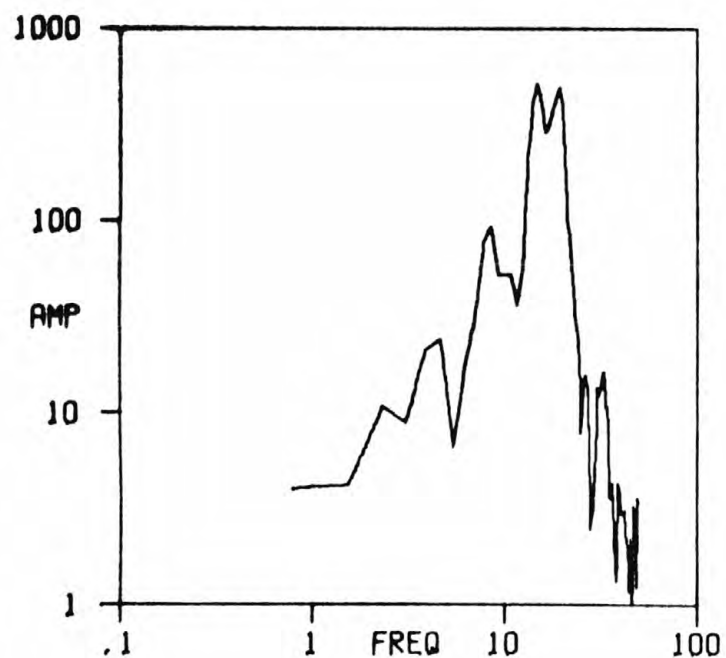
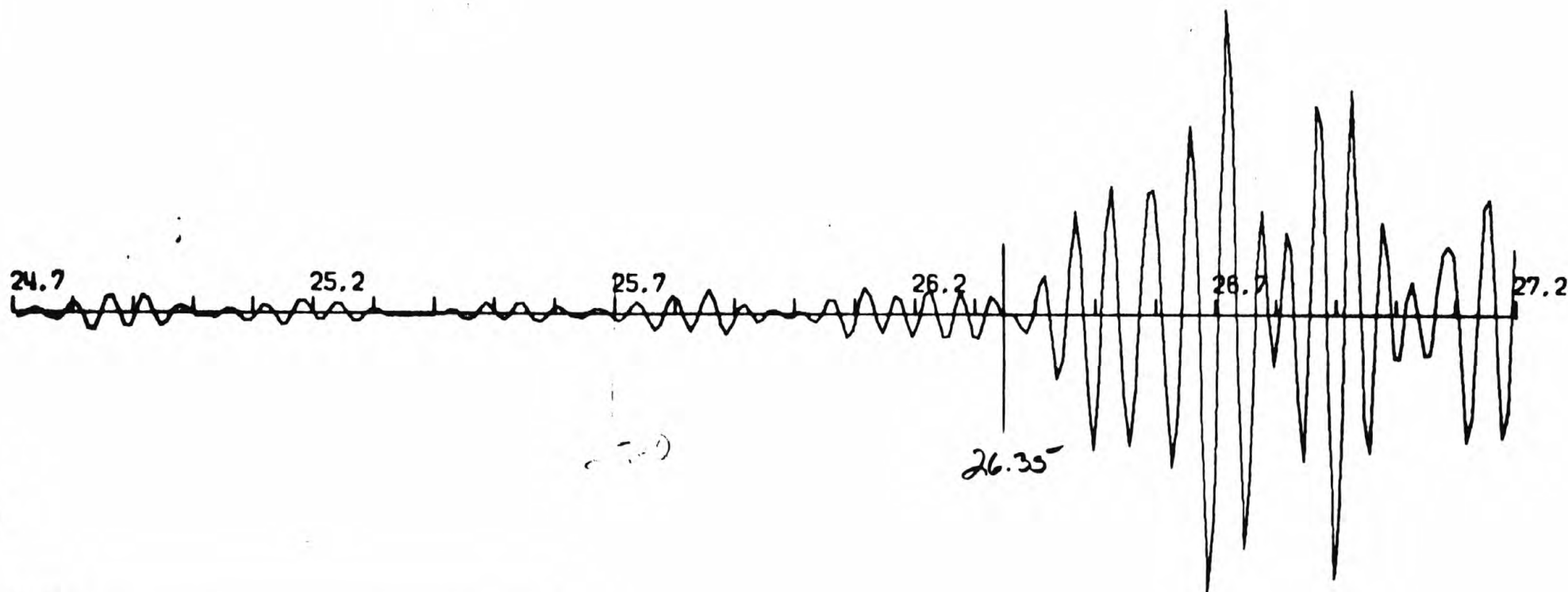
SAUDI REFRACTION PROFILE 15,20 BP

SHOT POINT 4

RECORDER LOCATION 446

DISTANCE FROM SHOT (KM) ≈ 157.567

TSCALE (CM/SEC) ≈ 10.0



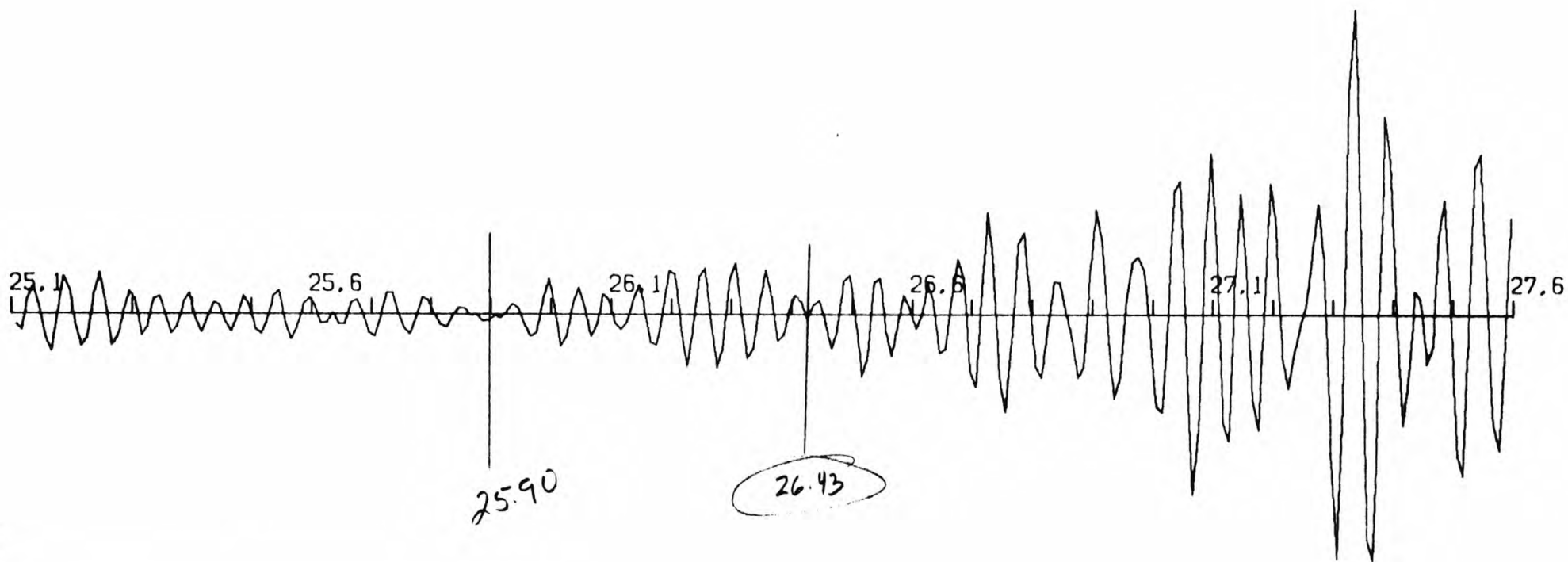
SAUDI REFRACTION PROFILE 15,20 BP

SHOT POINT 4

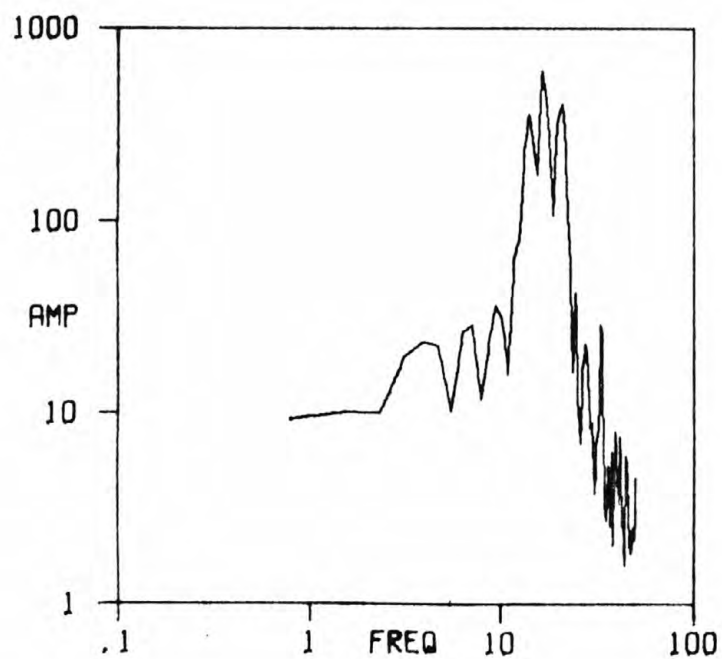
RECORDER LOCATION 445

DISTANCE FROM SHOT (KM) = 159.770

TSCALE (CM/SEC) = 10.0



523



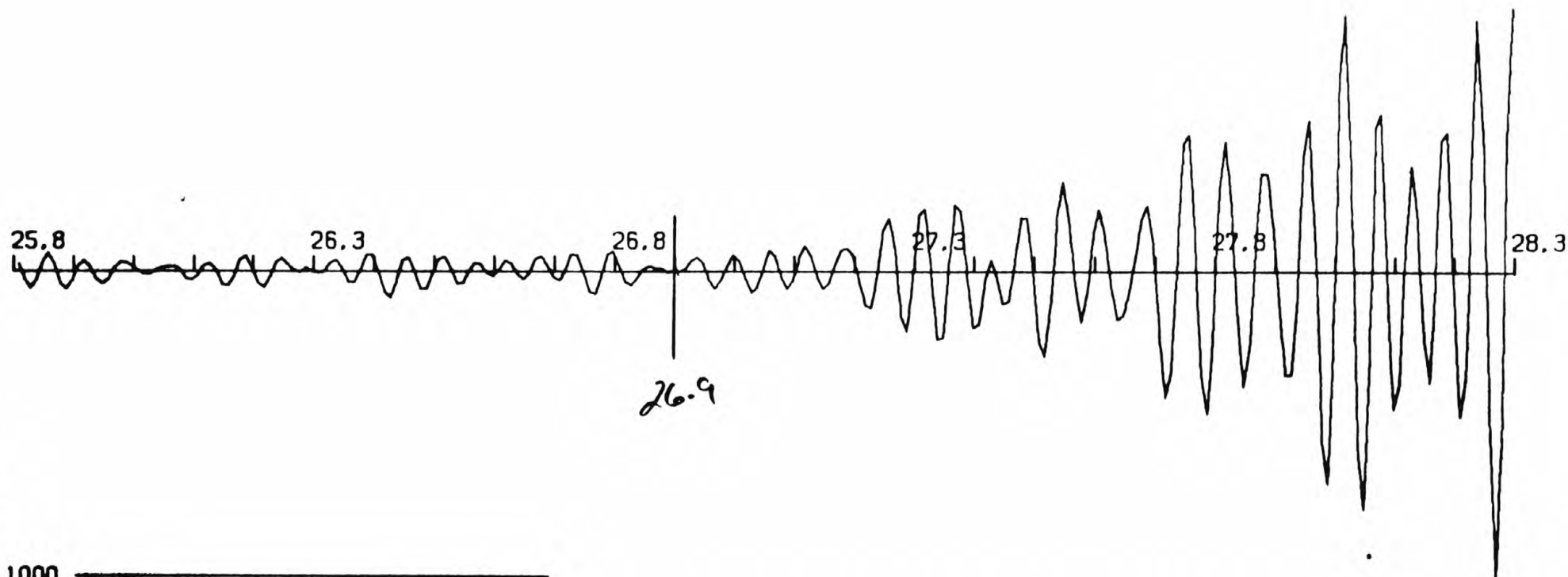
SAUDI REFRACTION PROFILE 15,20 BP

SHOT POINT 4

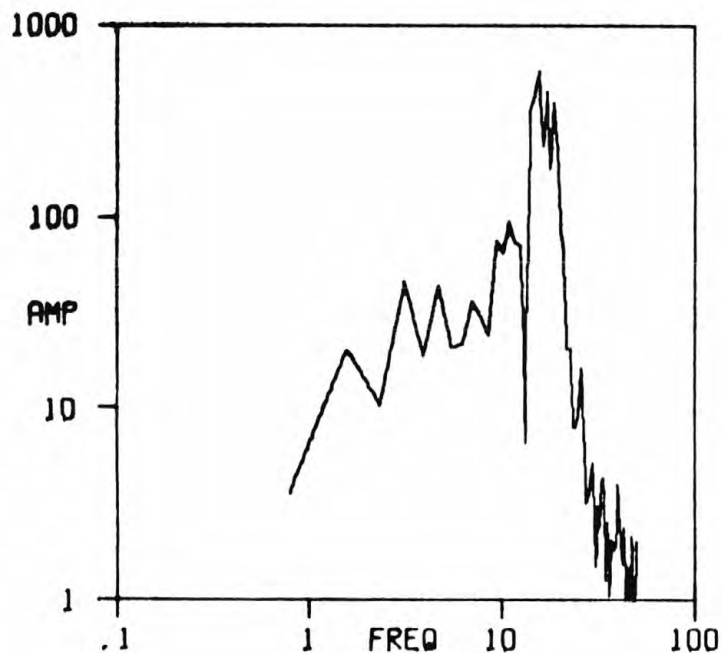
RECORDER LOCATION 444

DISTANCE FROM SHOT (KM) = 162.047

TSCALE (CM/SEC) = 10.0



524



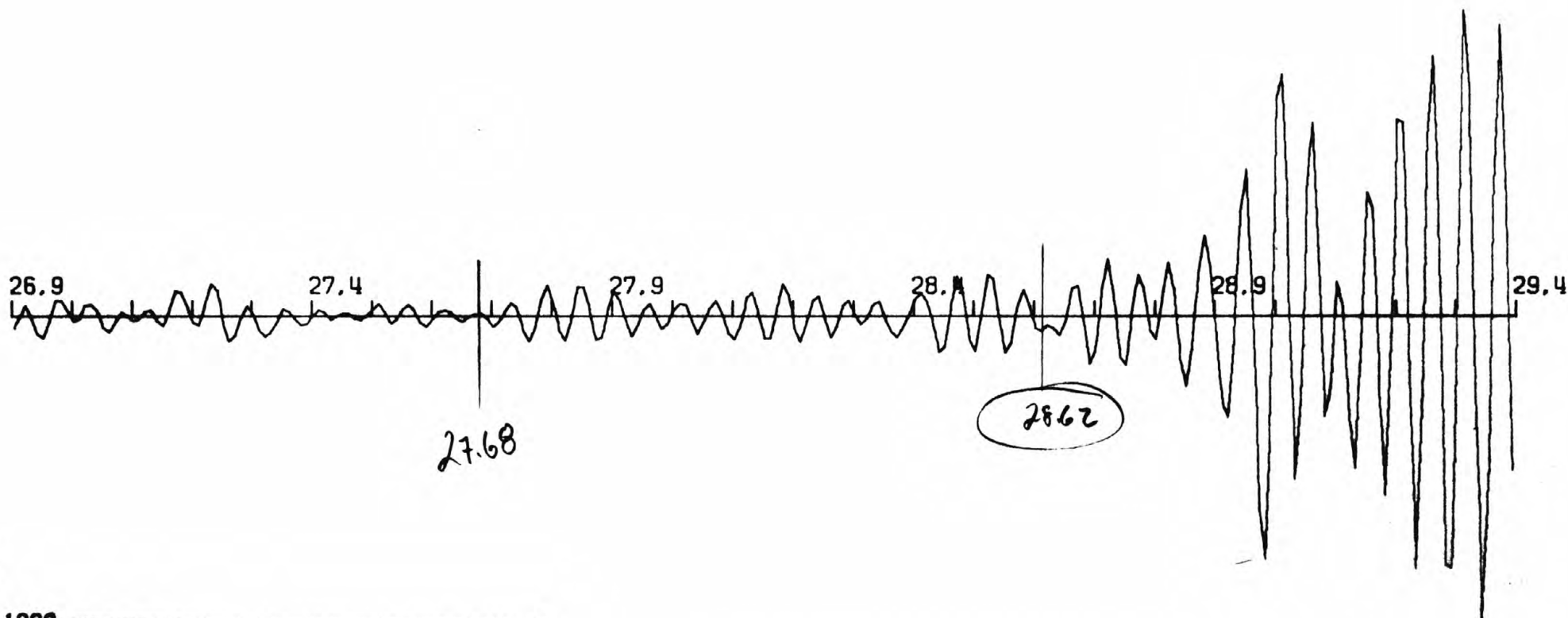
SAUDI REFRACTION PROFILE 15,20 BP

SHOT POINT 4

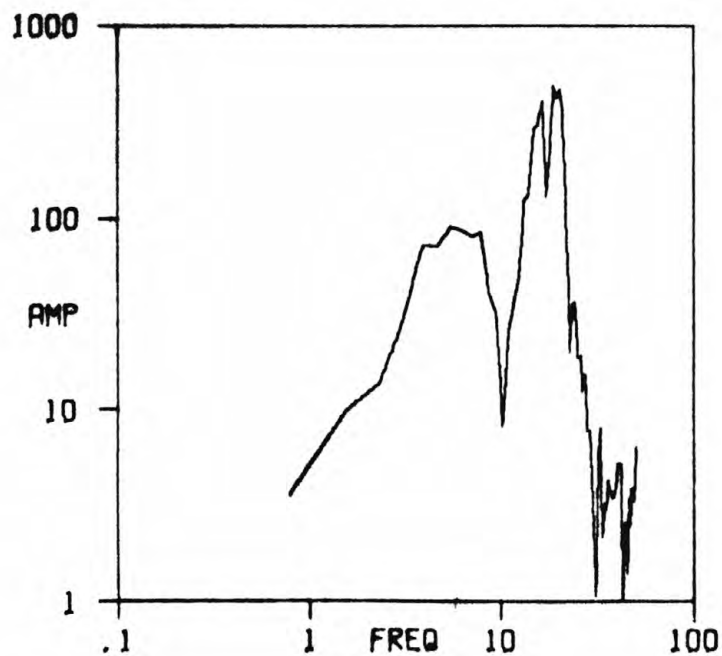
RECORDER LOCATION 442

DISTANCE FROM SHOT (KM) = 166.436

TSCALE (CM/SEC) = 10.0



525



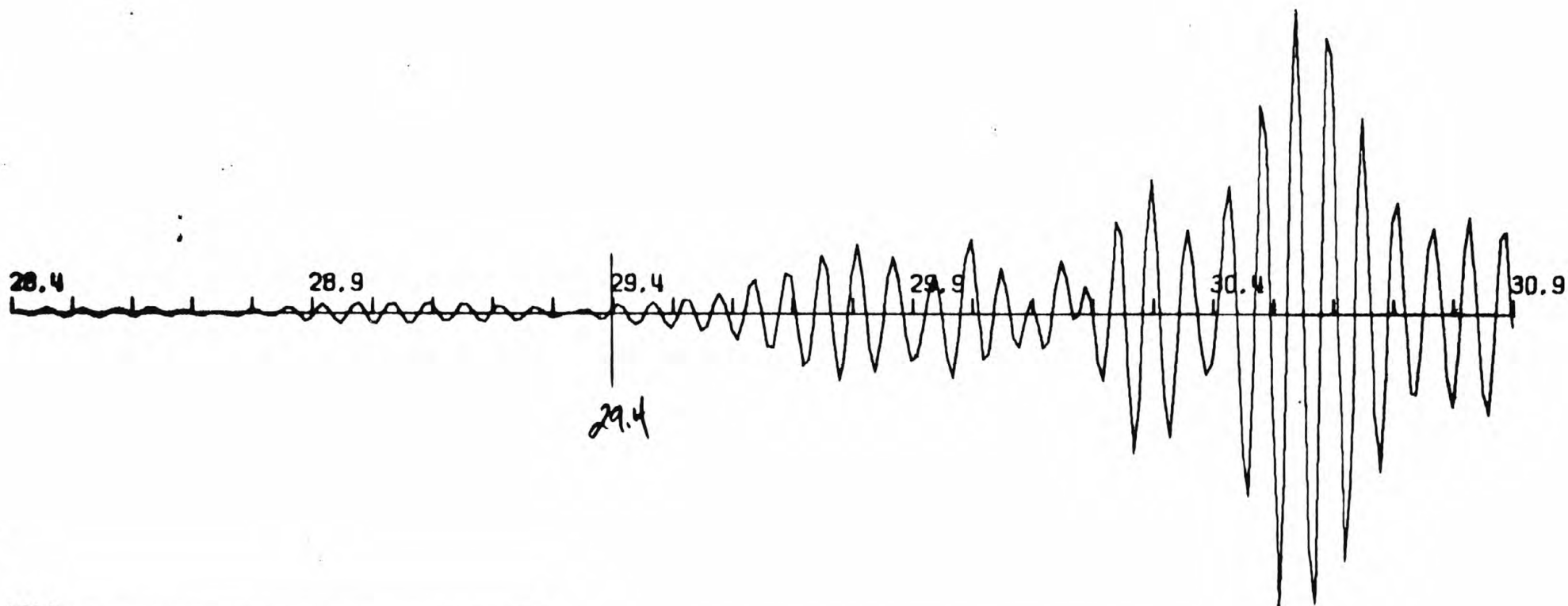
SAUDI REFRACTION PROFILE 15,20 BP

SHOT POINT 4

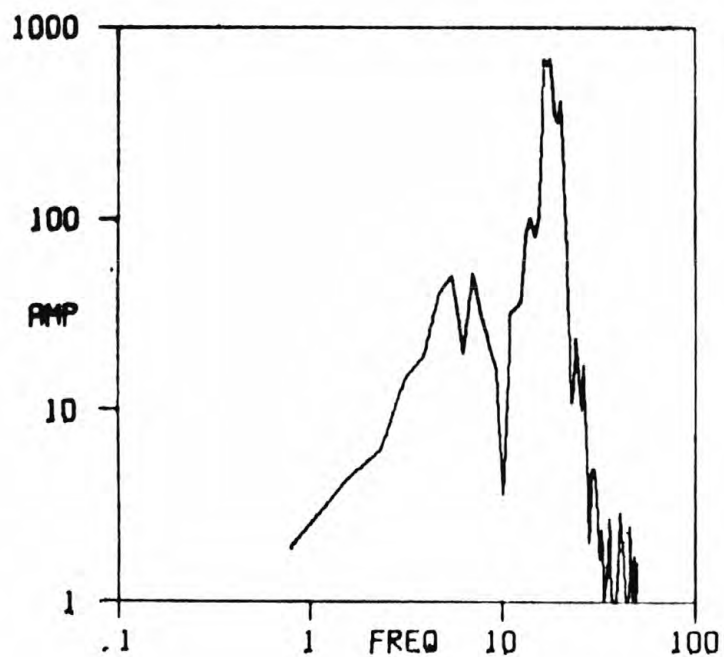
RECORDER LOCATION 438

DISTANCE FROM SHOT (KM) = 173.245

TSCALE (CM/SEC) = 10.0



525



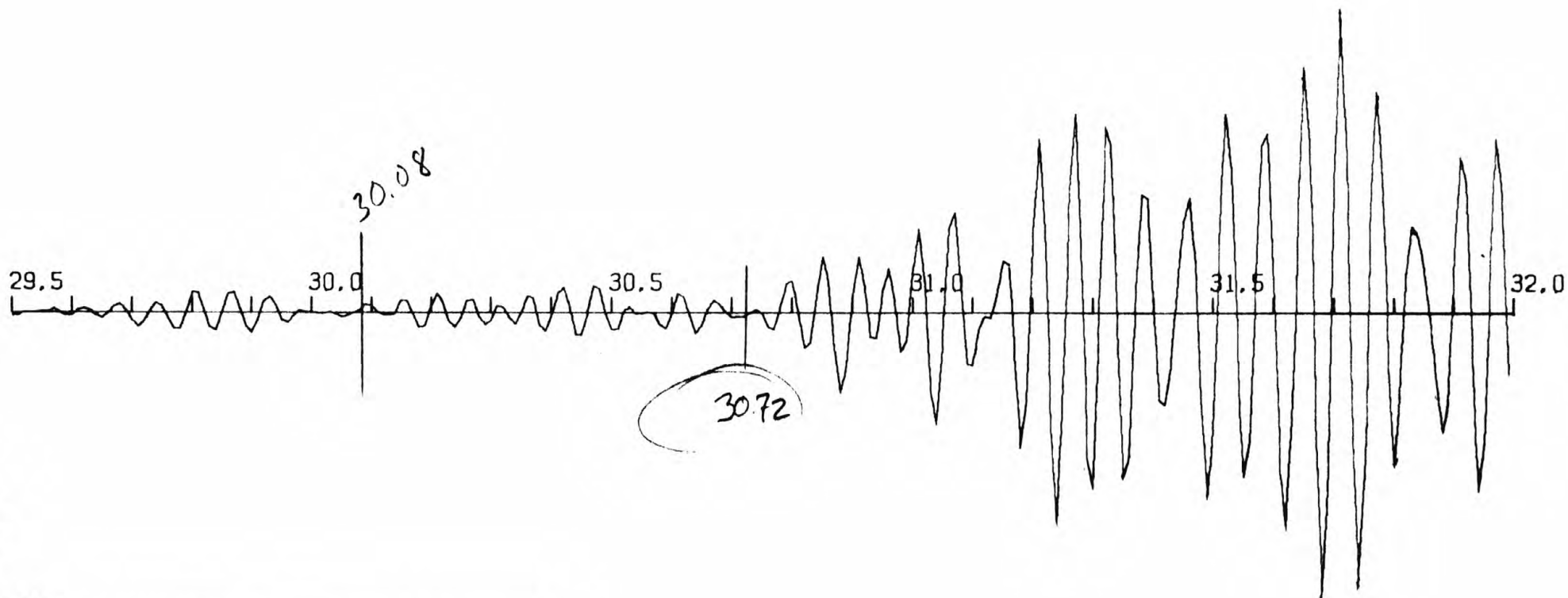
SAUDI REFRACTION PROFILE 15,20 BP

SHOT POINT 4

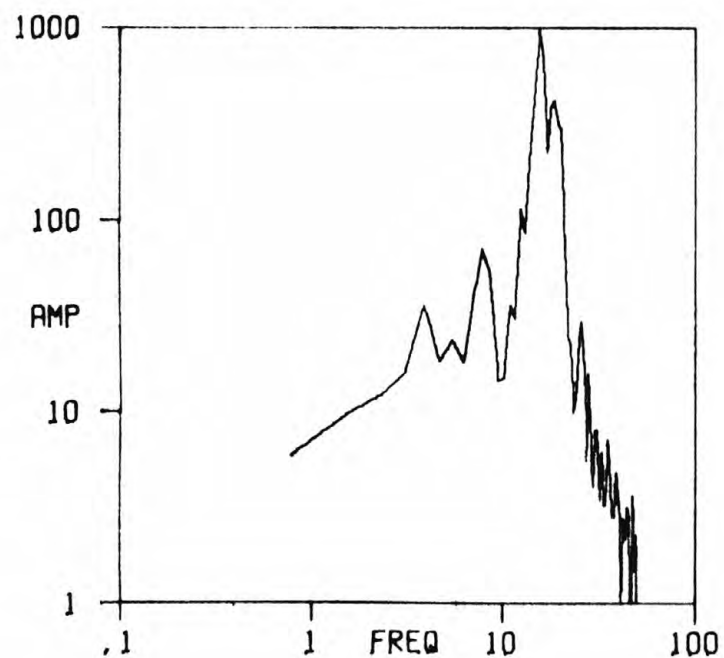
RECORDER LOCATION 434

DISTANCE FROM SHOT (KM) = 181.855

TSCALE (CM/SEC) = 10.0



527



SAUDI REFRACTION PROFILE 15,20 BP

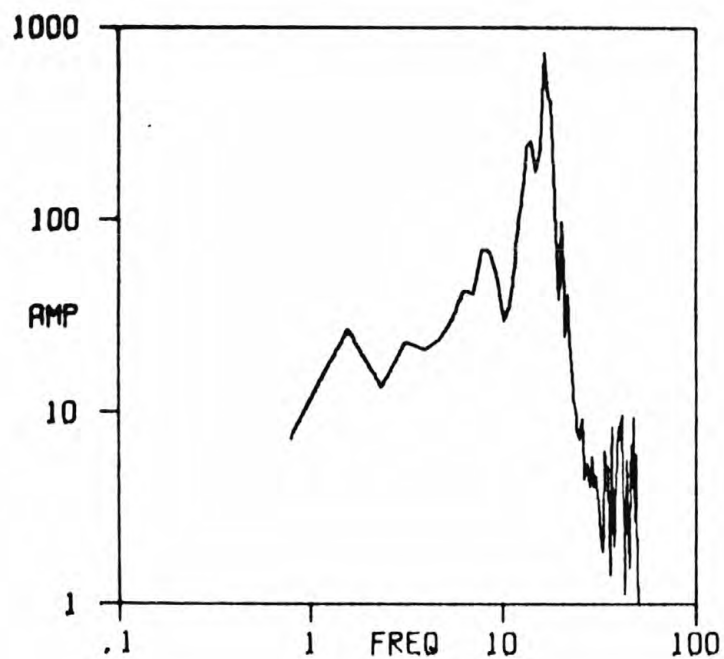
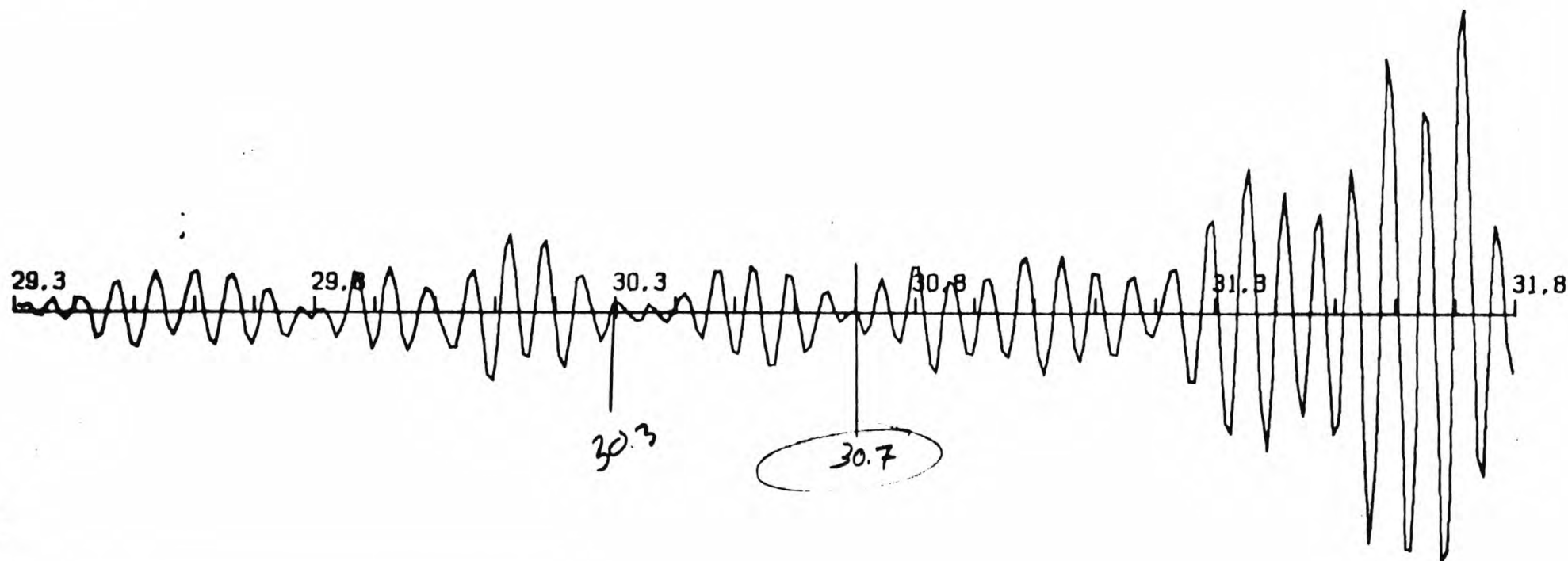
SHOT POINT 4

RECORDER LOCATION 431

DISTANCE FROM SHOT (KM) = 188.595

TSCALE (CM/SEC) = 10.0

528



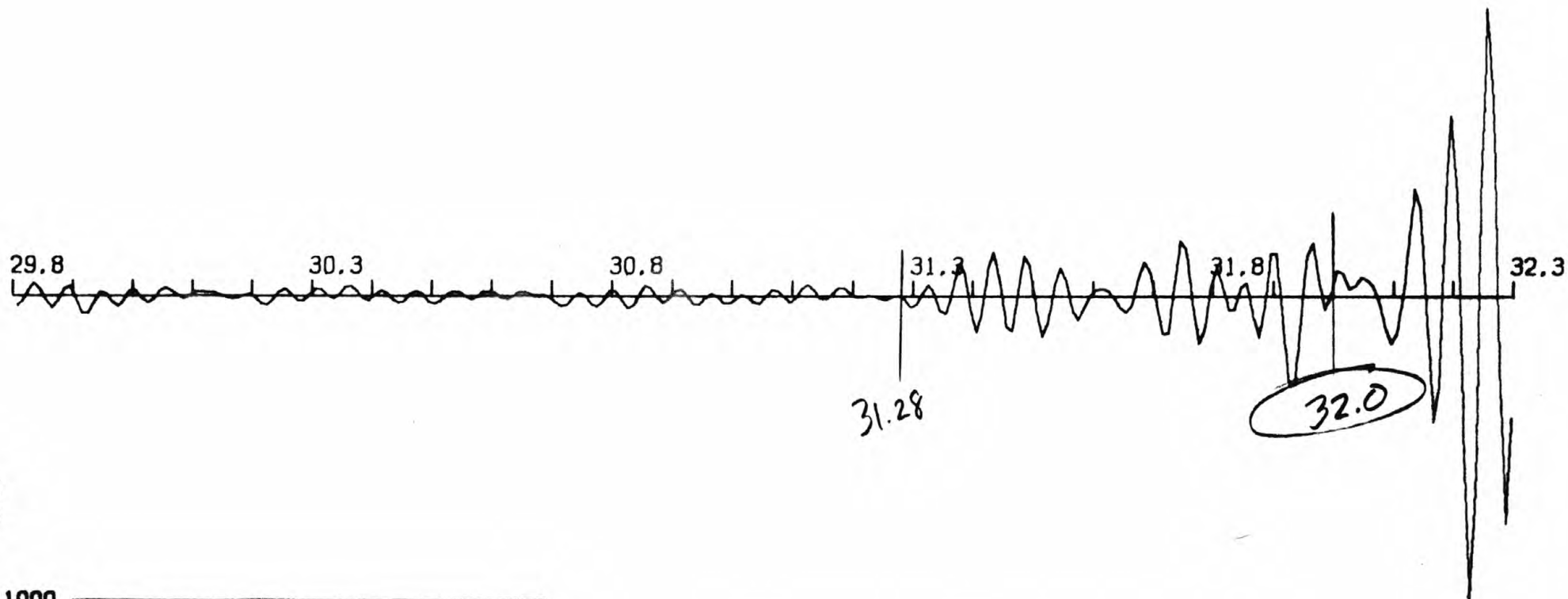
SAUDI REFRACTION PROFILE 15,20 BP

SHOT POINT 4

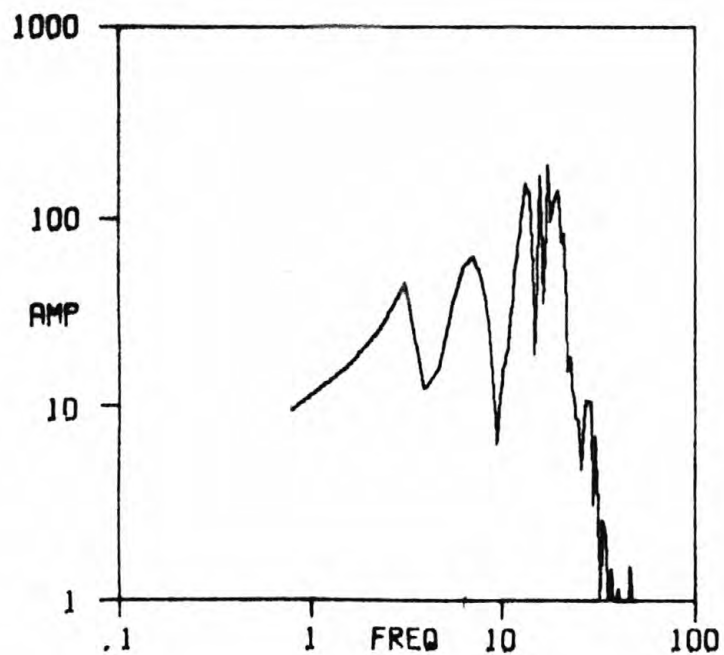
RECORDER LOCATION 428

DISTANCE FROM SHOT (KM) = 193.786

TSCALE (CM/SEC) = 10.0



529



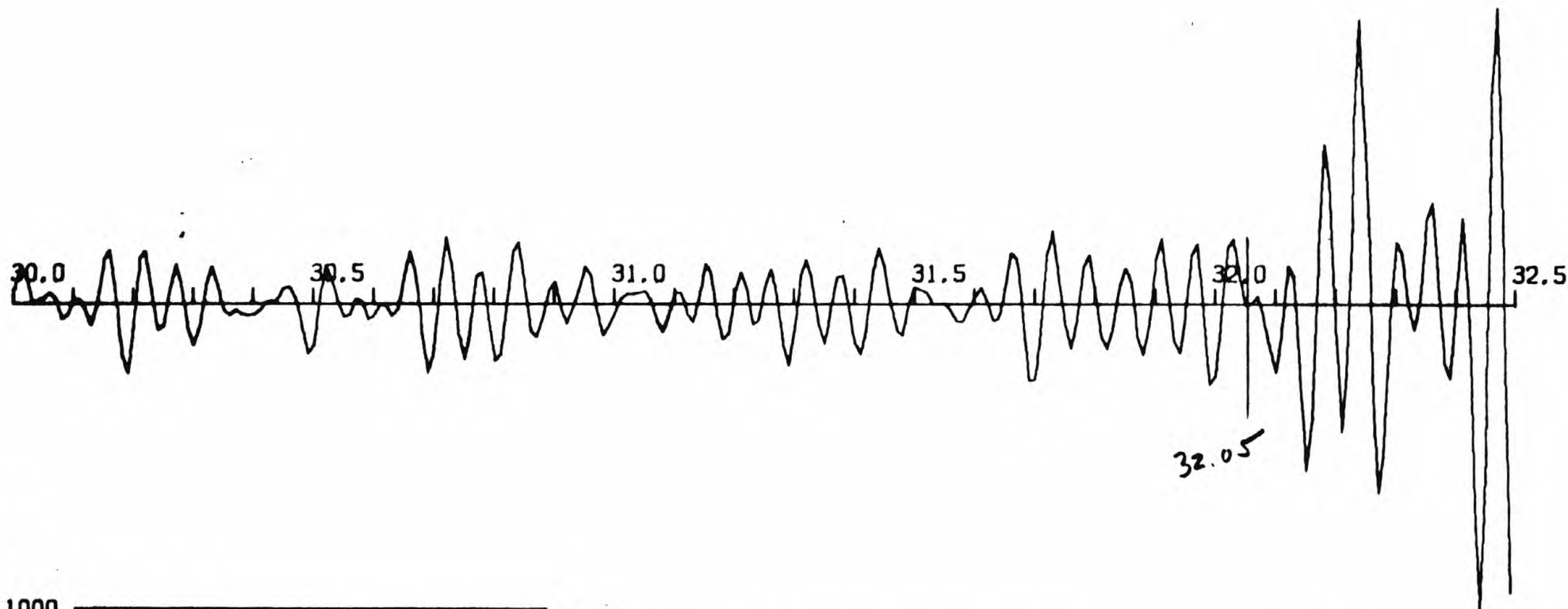
SAUDI REFRACTION PROFILE 15,20 BP

SHOT POINT 4

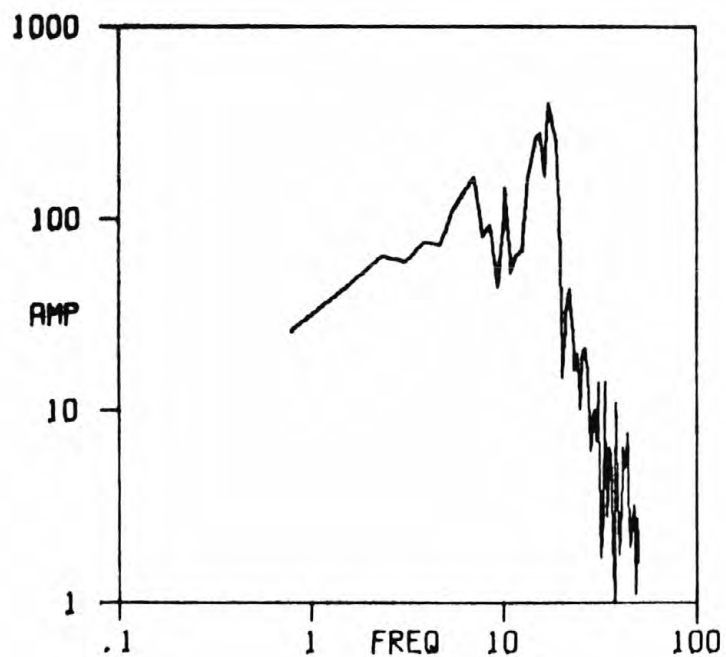
RECORDER LOCATION 426

DISTANCE FROM SHOT (KM) = 196.487

TSCALE (CM/SEC) = 10.0



530



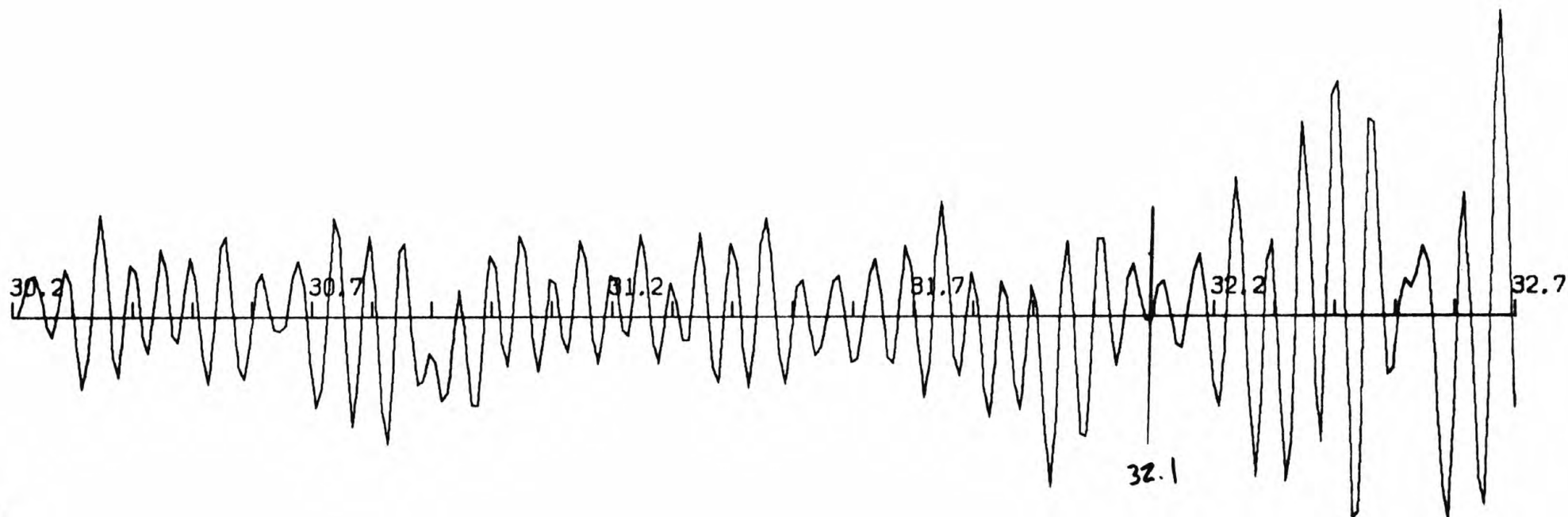
SAUDI REFRACTION PROFILE 15,20, BP

SHOT POINT 4

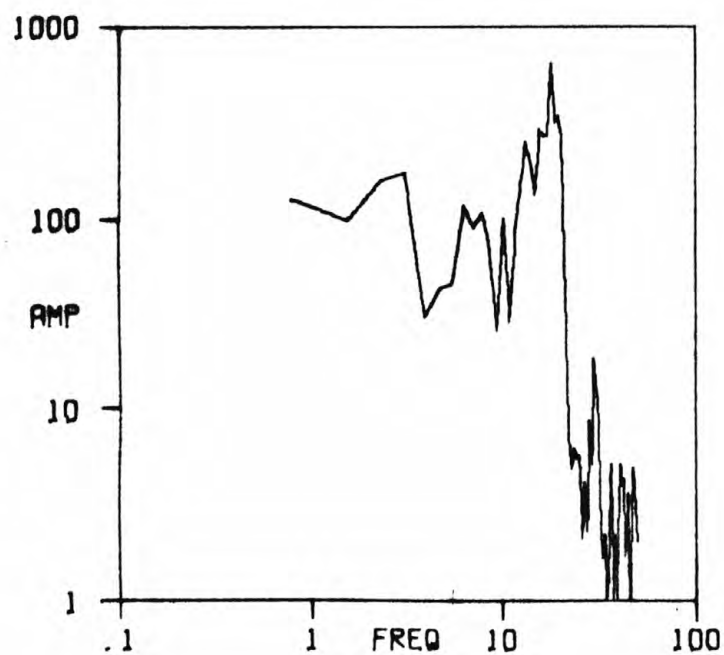
RECORDER LOCATION 425

DISTANCE FROM SHOT (KM) = 197.779

TSCALE (CM/SEC) = 10.0



531



SAUDI REFRACTION PROFILE 15,20, BP

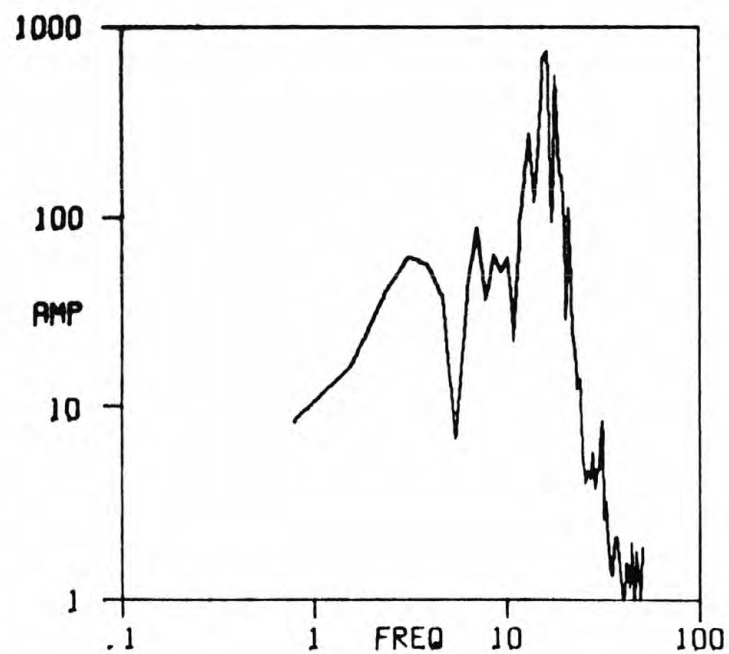
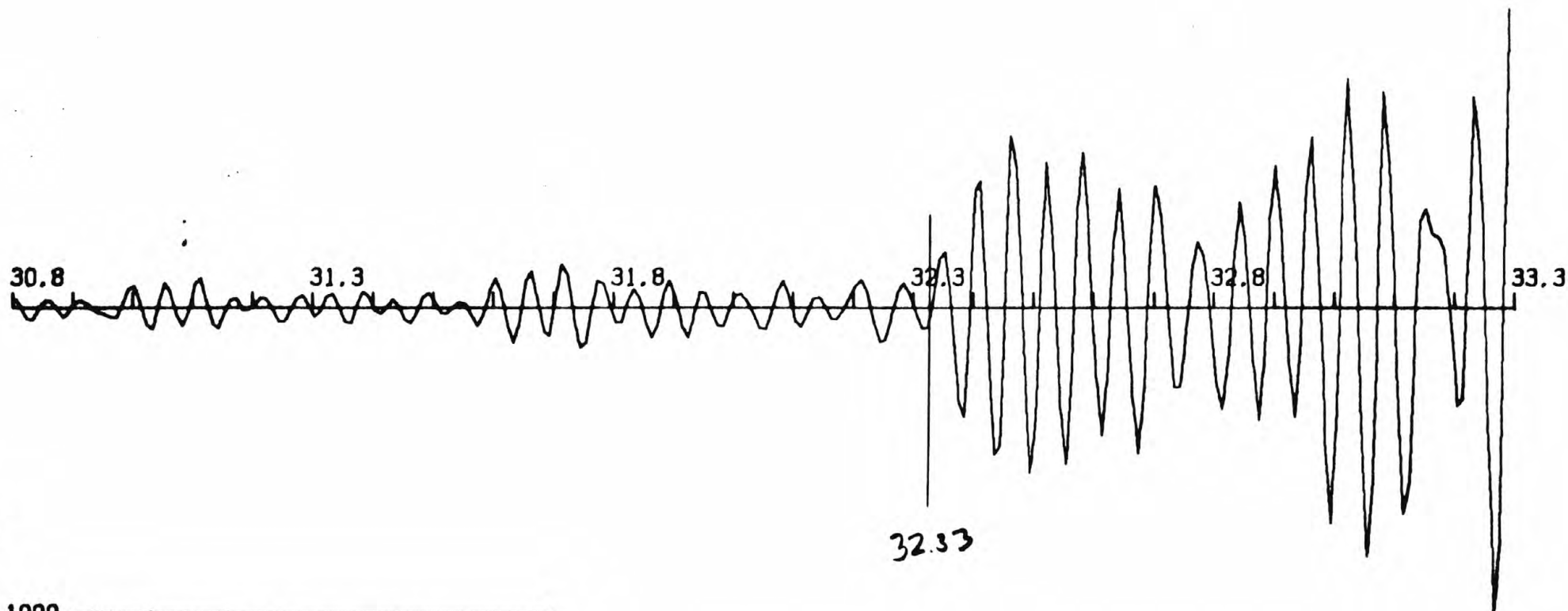
SHOT POINT 4

RECORDER LOCATION 424

DISTANCE FROM SHOT (KM) = 199,134

TSCALE (CM/SEC) = 10.0

532



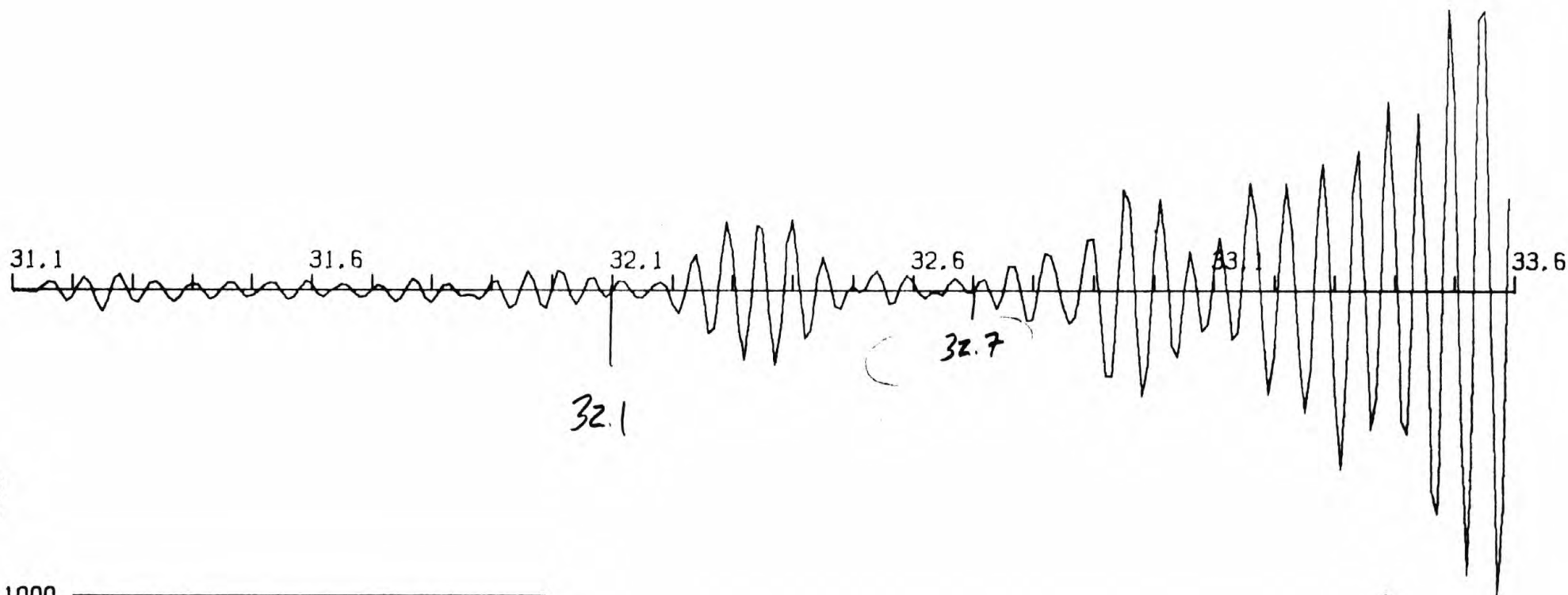
SAUDI REFRACTION PROFILE 15,20 BP

SHOT POINT 4

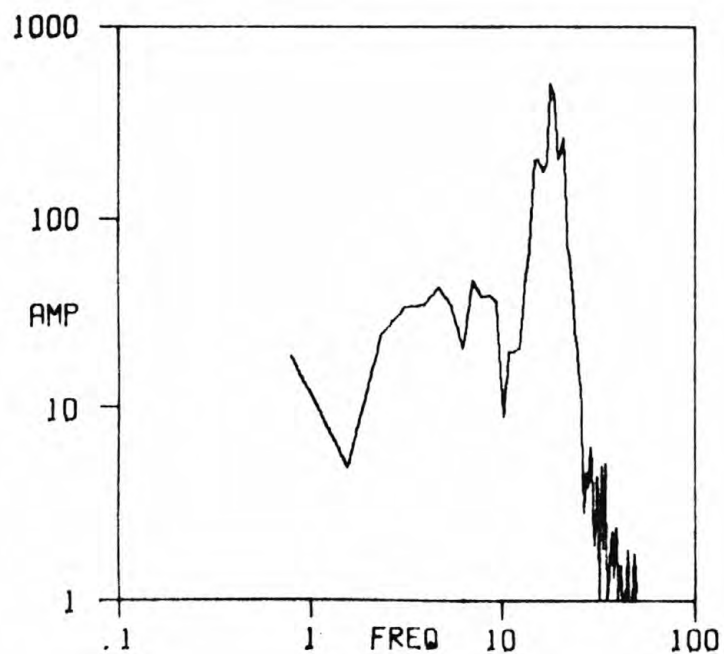
RECORDER LOCATION 421

DISTANCE FROM SHOT (KM) = 202.472

TSCALE (CM/SEC) = 10.0



533



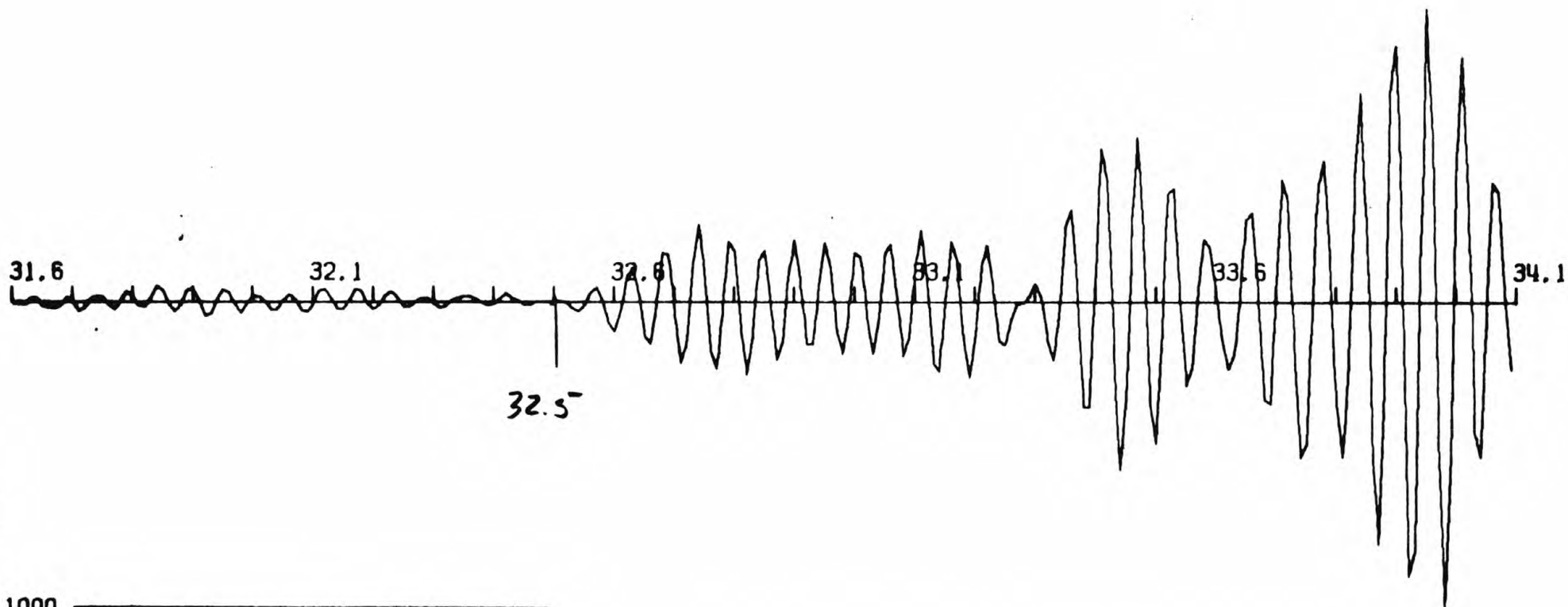
SAUDI REFRACTION PROFILE 15,20 BP

SHOT POINT 4

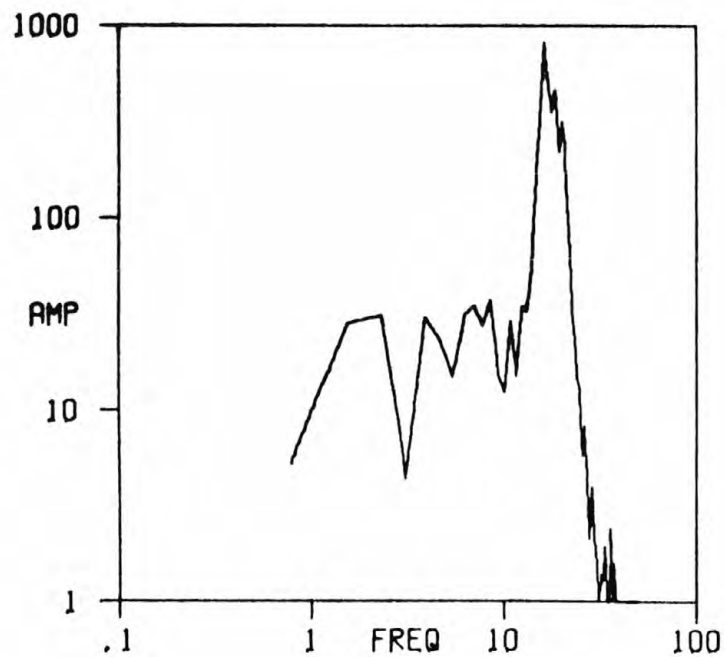
RECORDER LOCATION 420

DISTANCE FROM SHOT (KM) = 204.069

TSCALE (CM/SEC) = 10.0



534



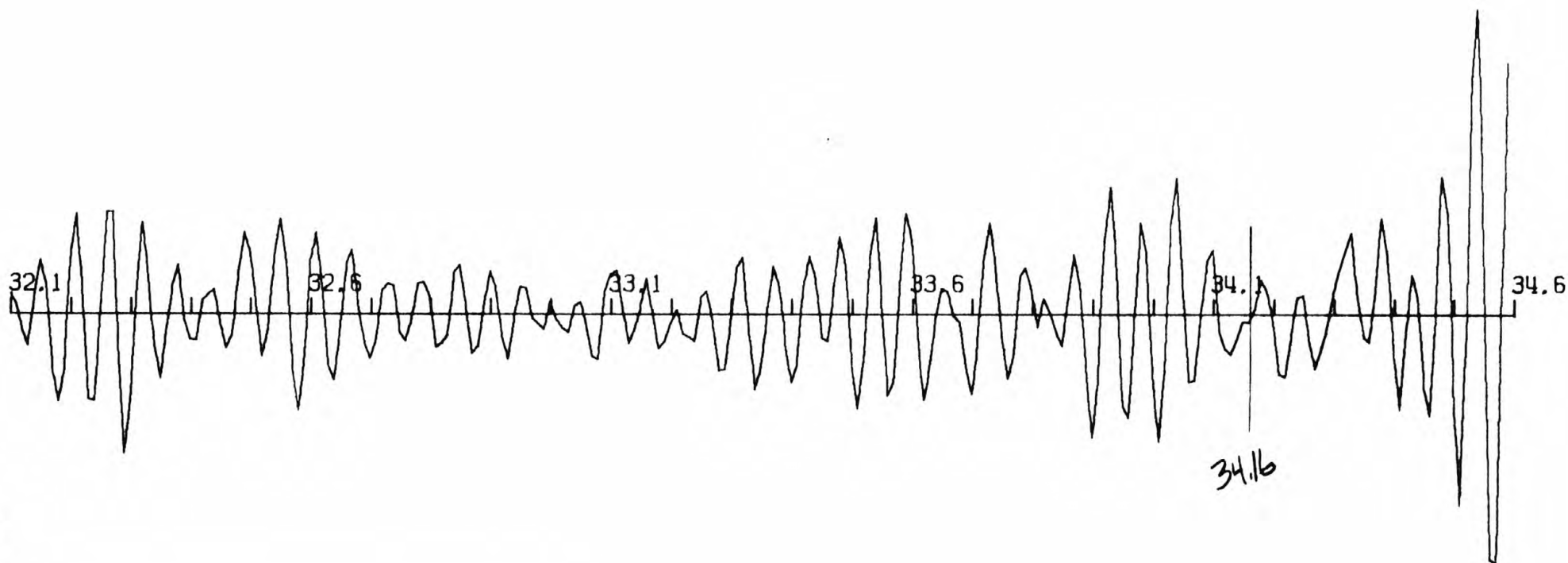
SAUDI REFRACTION PROFILE 15,20 BP

SHOT POINT 4

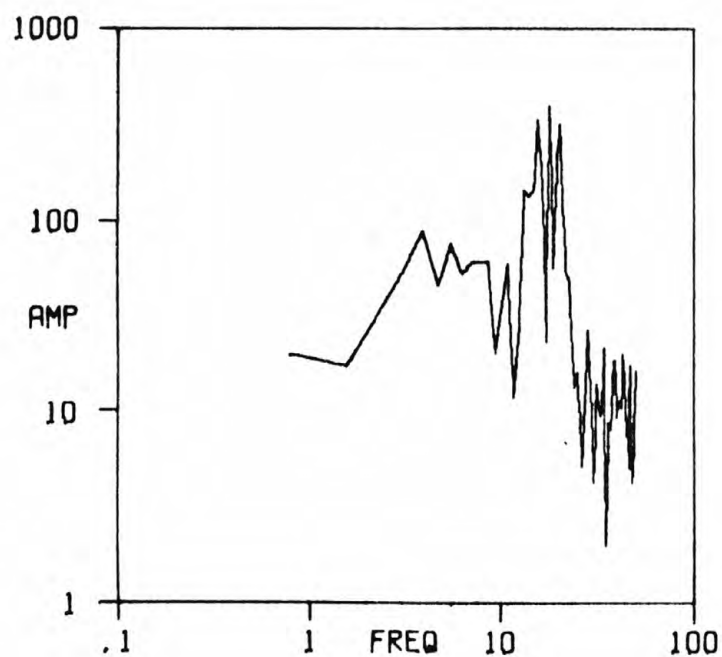
RECORDER LOCATION 418

DISTANCE FROM SHOT (KM) = 207.317

TSCALE (CM/SEC) = 10.0



535



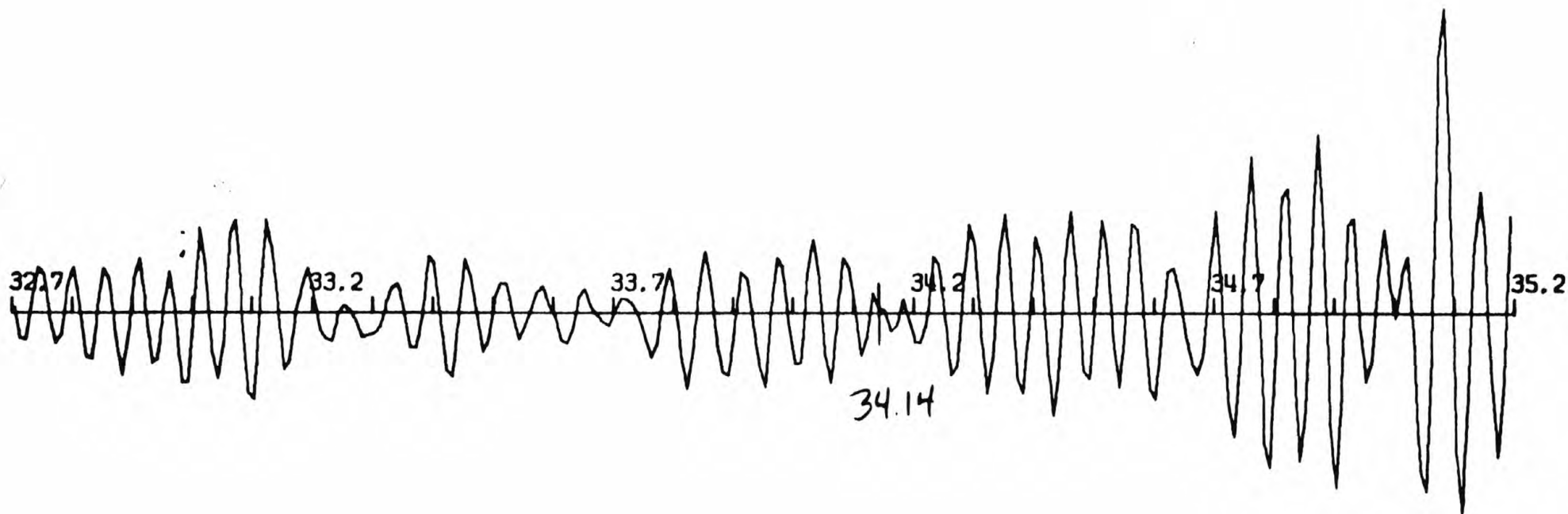
SAUDI REFRACTION PROFILE 15,20 BP

SHOT POINT 4

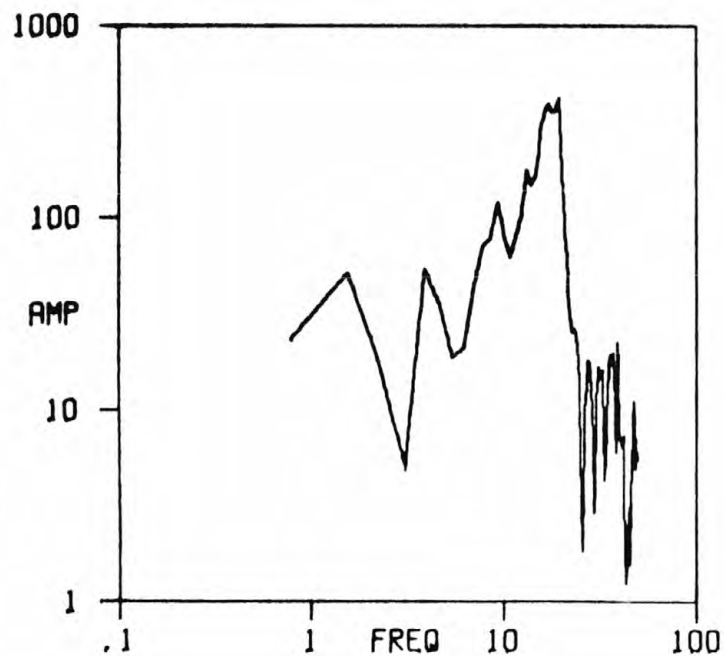
RECORDER LOCATION 416

DISTANCE FROM SHOT (KM) = 213.001

TSCALE (CM/SEC) = 10.0



536



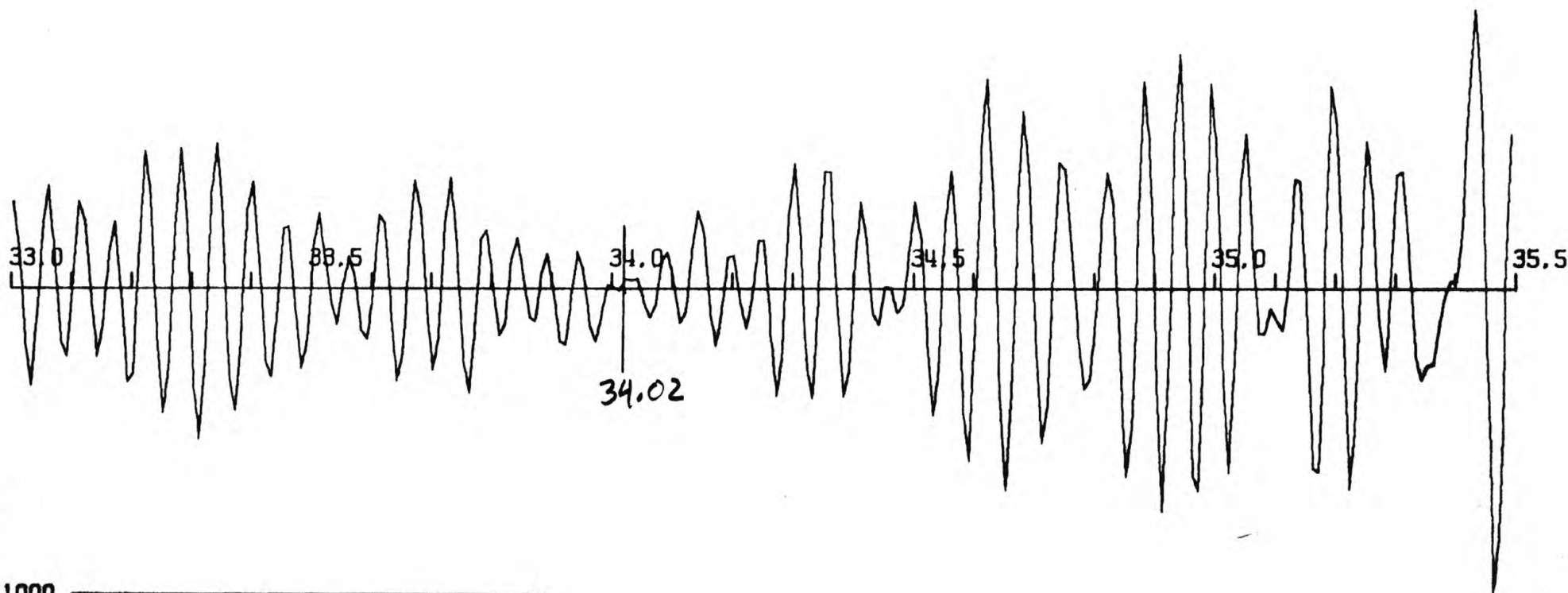
SAUDI REFRACTION PROFILE 15,20 BP

SHOT POINT 4

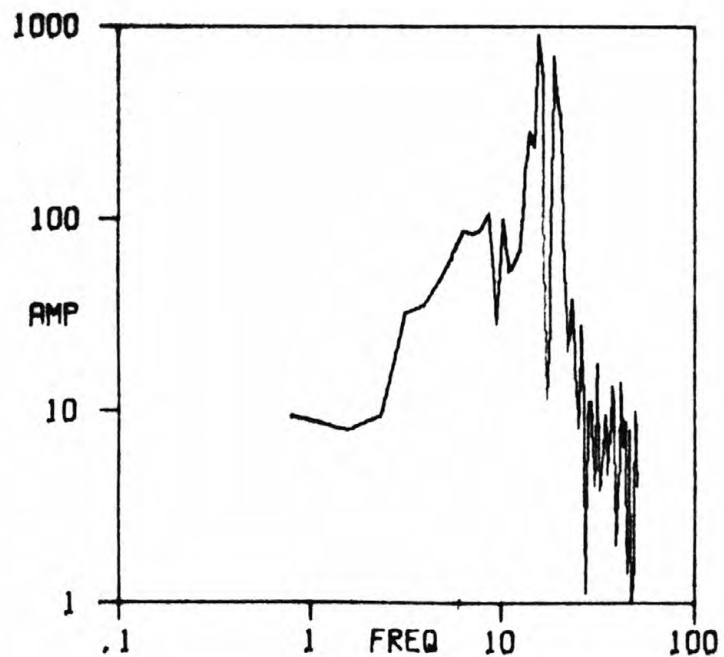
RECORDER LOCATION 414

DISTANCE FROM SHOT (KM) = 217.169

TSCALE (CM/SEC) = 10.0



537



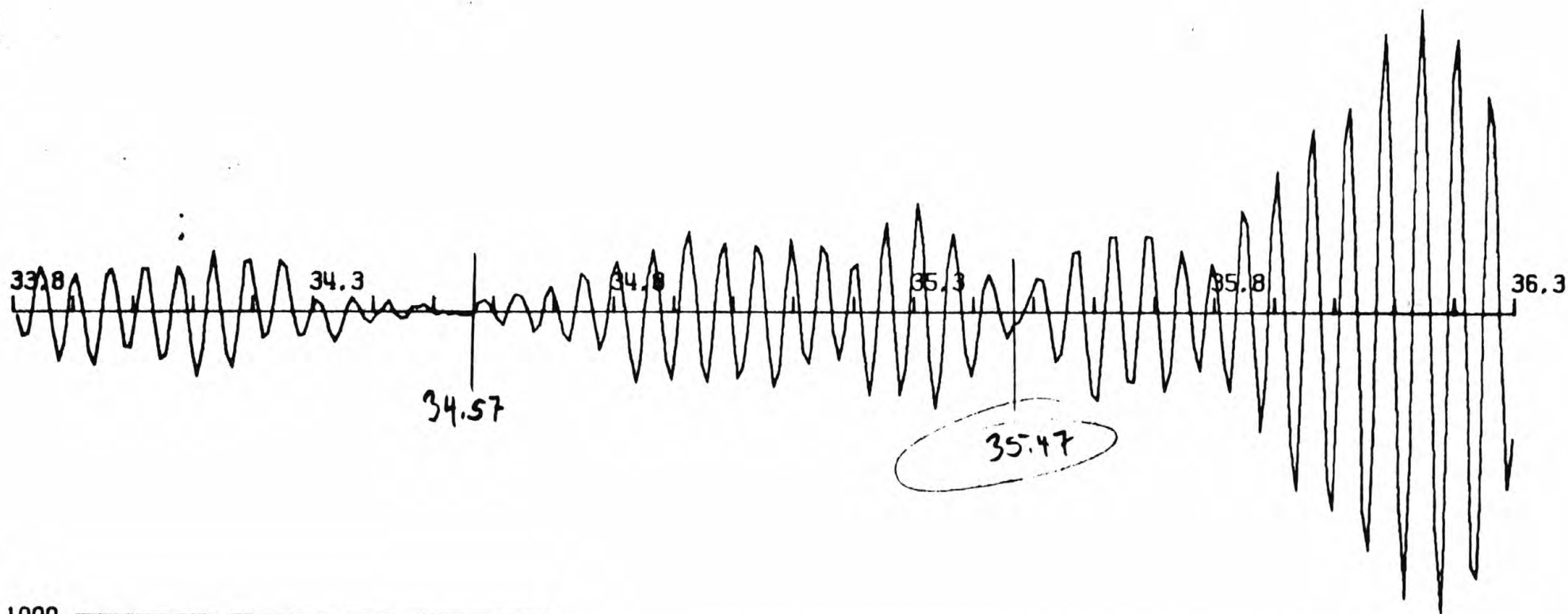
SAUDI REFRACTION PROFILE 15,20 BP

SHOT POINT 4

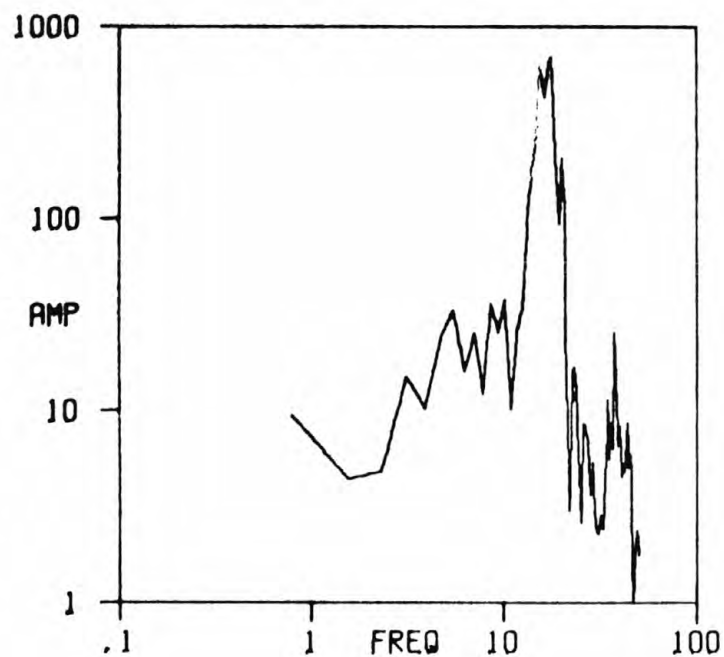
RECORDER LOCATION 413

DISTANCE FROM SHOT (KM) = 218.908

TSCALE (CM/SEC) = 10.0



538



SAUDI REFRACTION PROFILE 15,20 BP

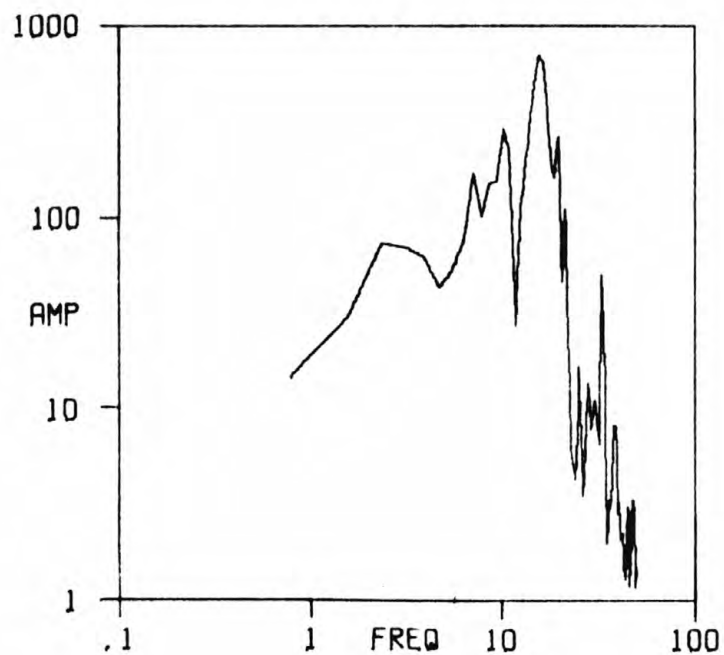
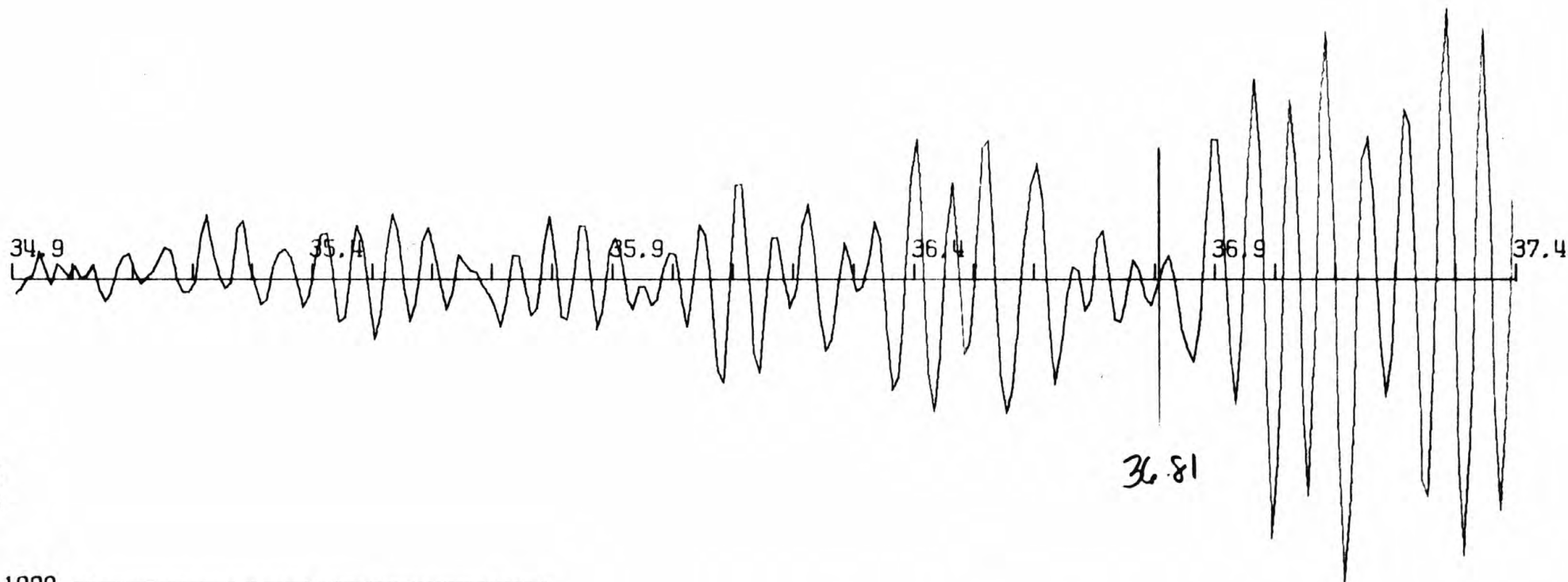
SHOT POINT 4

RECORDER LOCATION 409

DISTANCE FROM SHOT (KM) = 226.246

TSCALE (CM/SEC) = 10.0

539



SAUDI REFRACTION PROFILE 15.20 BP

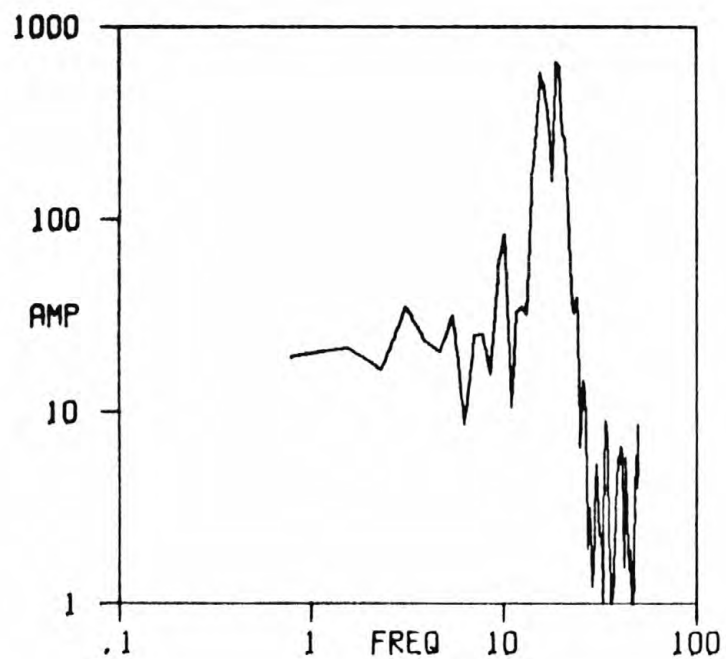
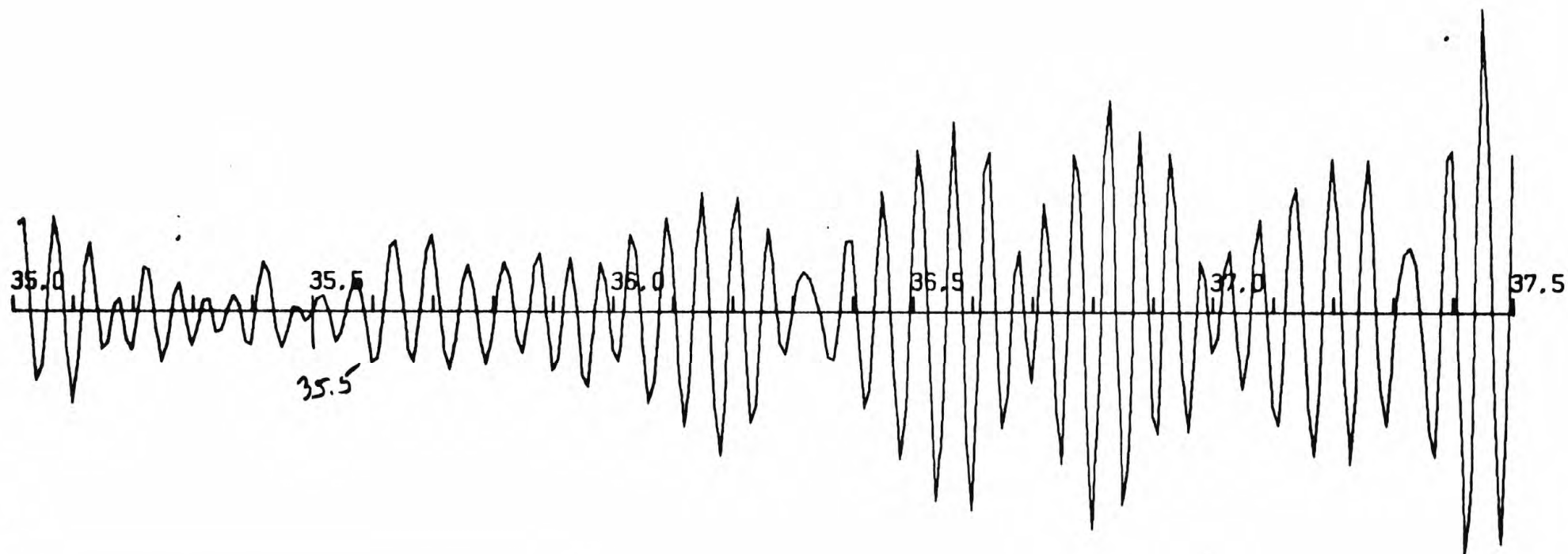
SHOT POINT 4

RECORDER LOCATION 407

DISTANCE FROM SHOT (KM) = 230.318

TSCALE (CM/SEC) = 10.0

540



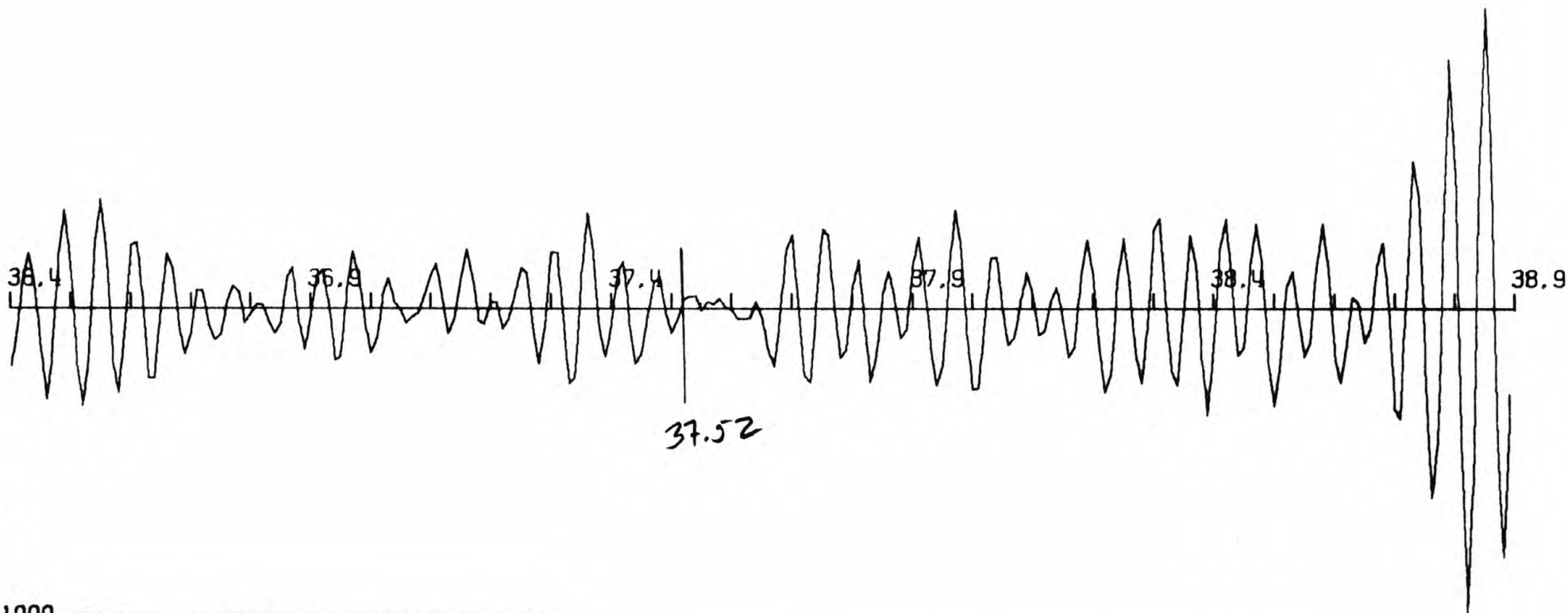
SAUDI REFRACTION PROFILE 15,20 BP

SHOT POINT 4

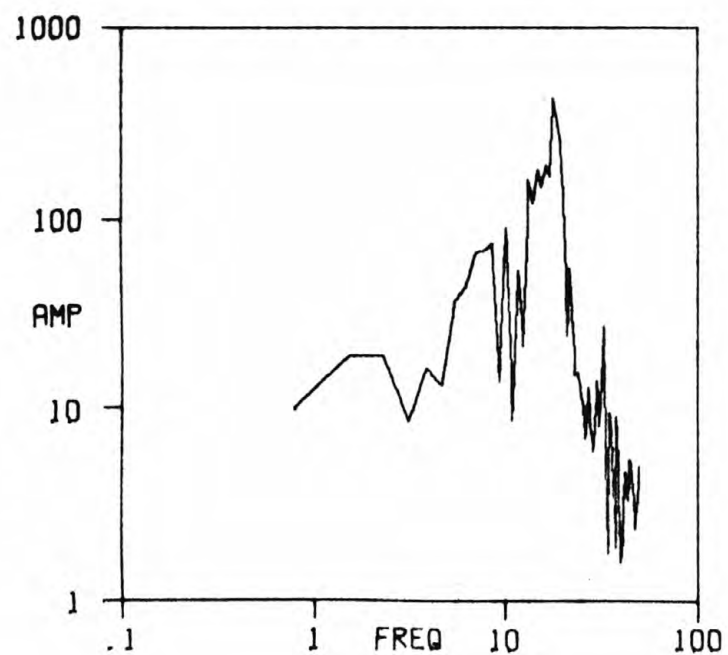
RECORDER LOCATION 405

DISTANCE FROM SHOT (KM) = 233.879

TSCALE (CM/SEC) = 10.0



541



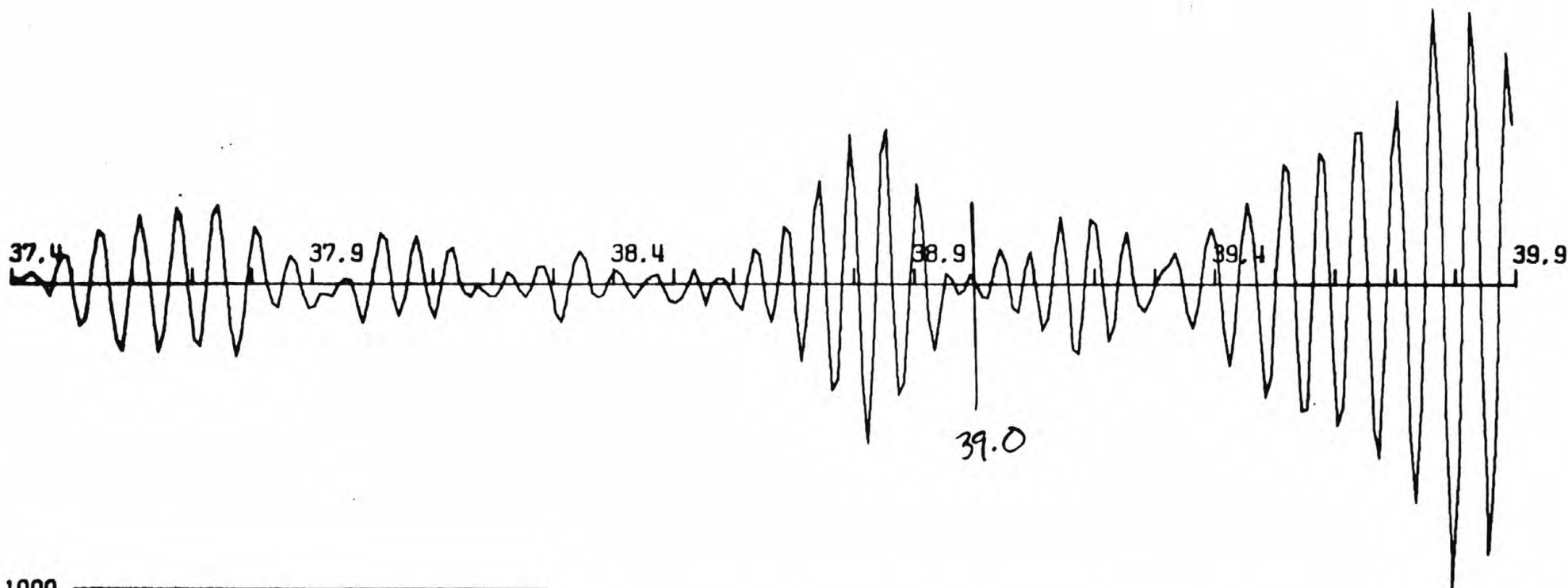
SAUDI REFRACTION PROFILE 15,20 BP

SHOT POINT 4

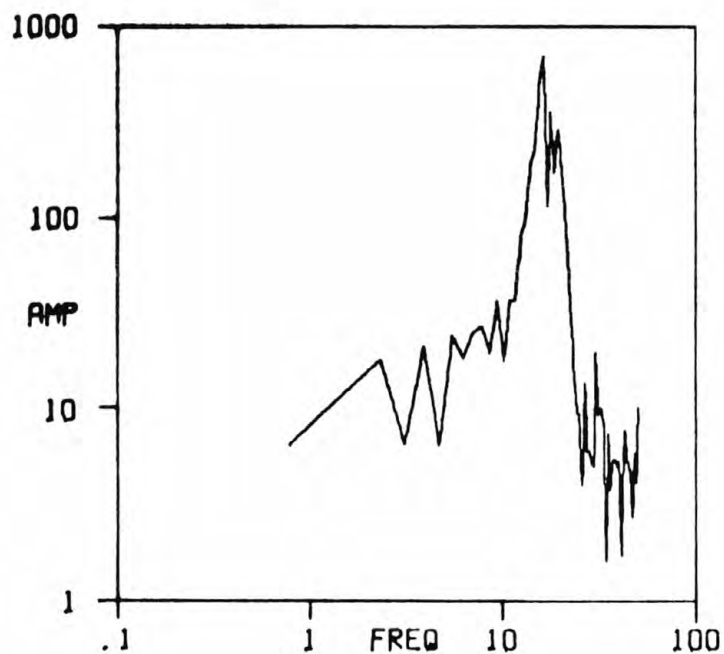
RECORDER LOCATION 398

DISTANCE FROM SHOT (KM) = 247.934

TSCALE (CM/SEC) = 10.0



542



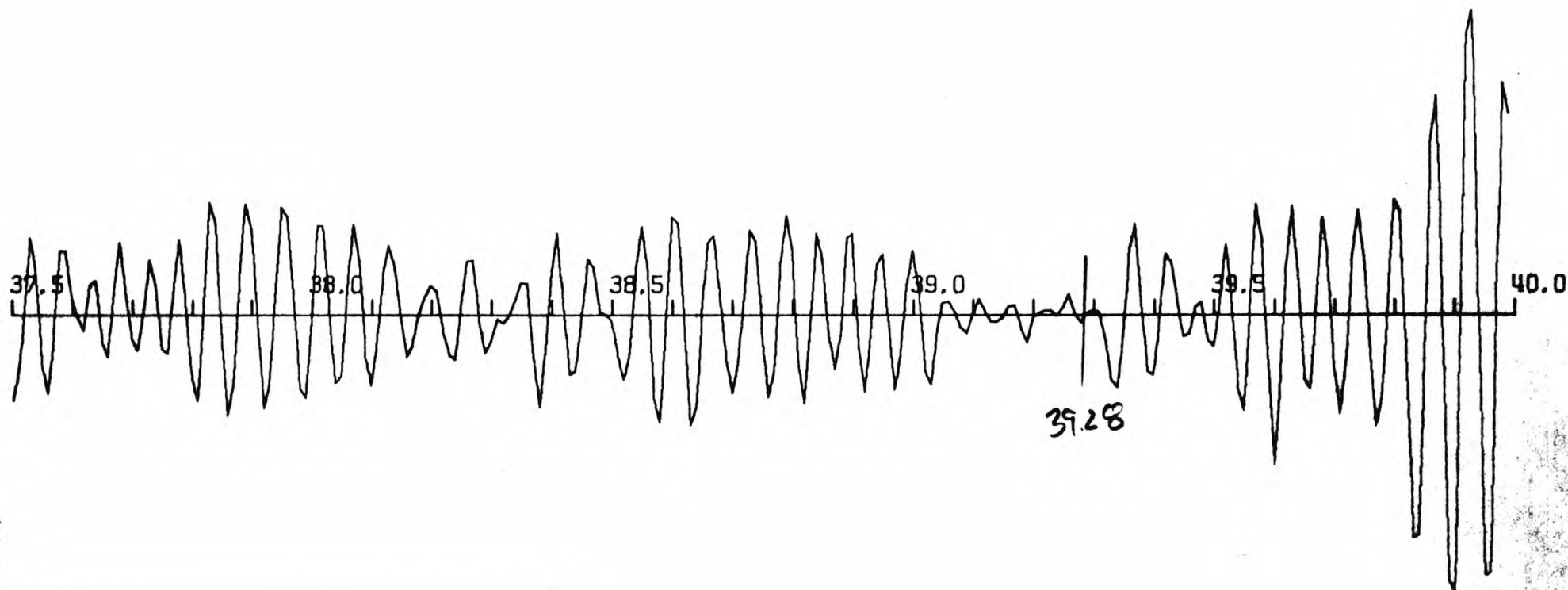
SAUDI REFRACTION PROFILE 15,20 BP

SHOT POINT 4

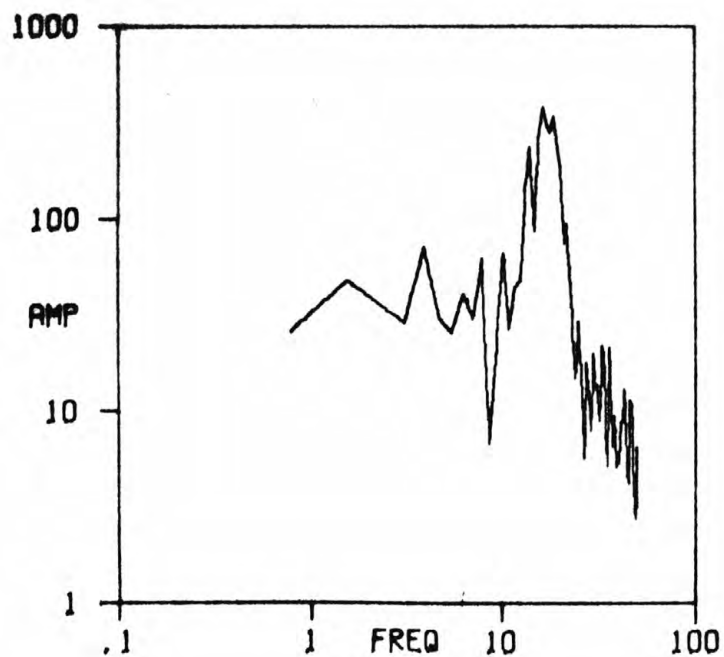
RECORDER LOCATION 392

DISTANCE FROM SHOT (KM) = 260.133

TSCALE (CM/SEC) = 10.0



543



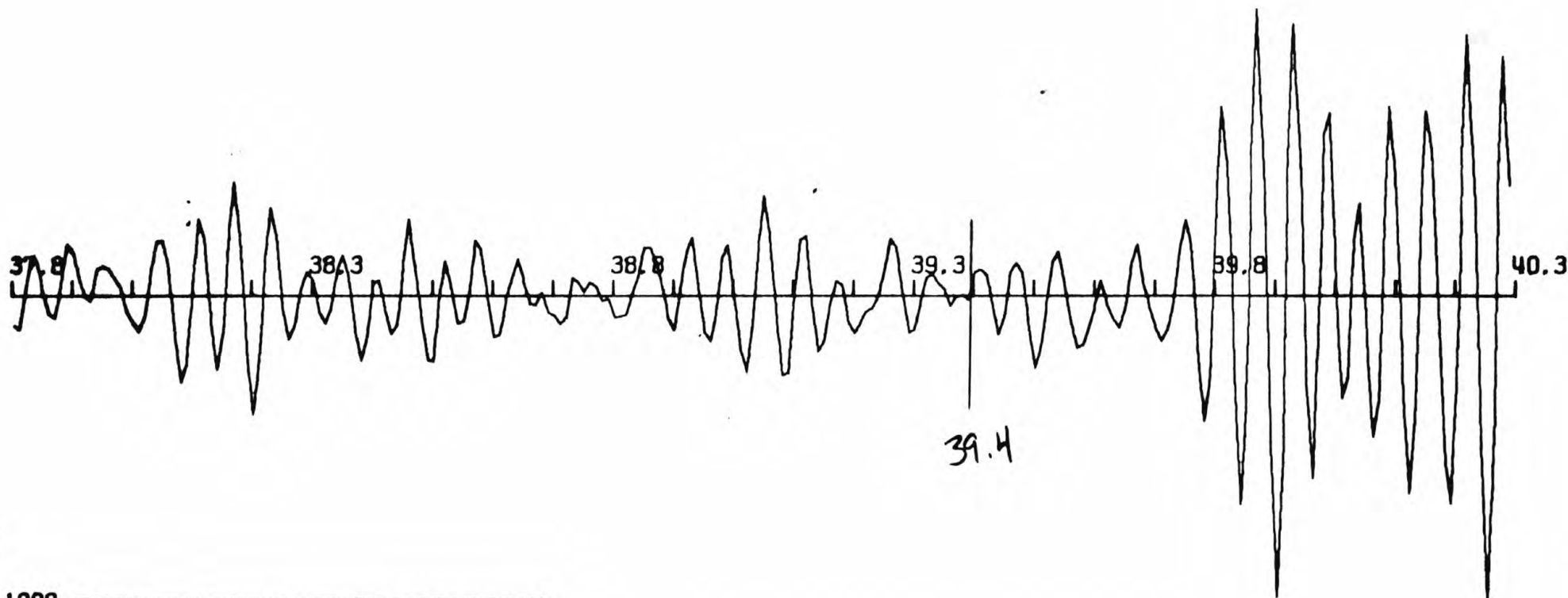
SAUDI REFRACTION PROFILE 15,20 BP

SHOT POINT 4

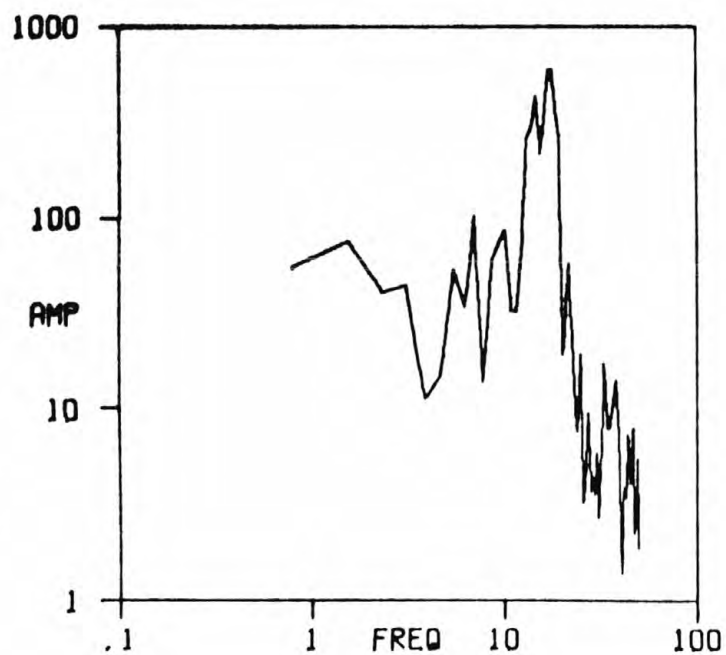
RECORDER LOCATION 391

DISTANCE FROM SHOT (KM) = 260.763

TSCALE (CM/SEC) = 10.0



544



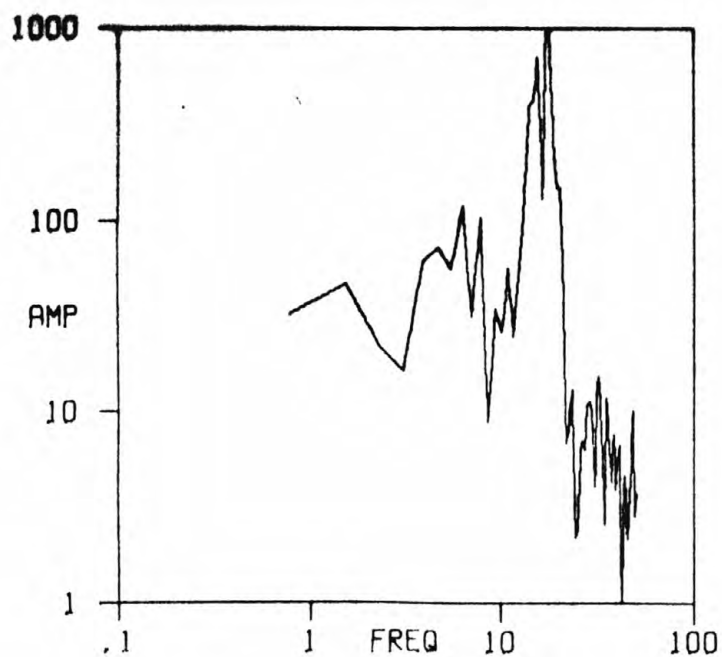
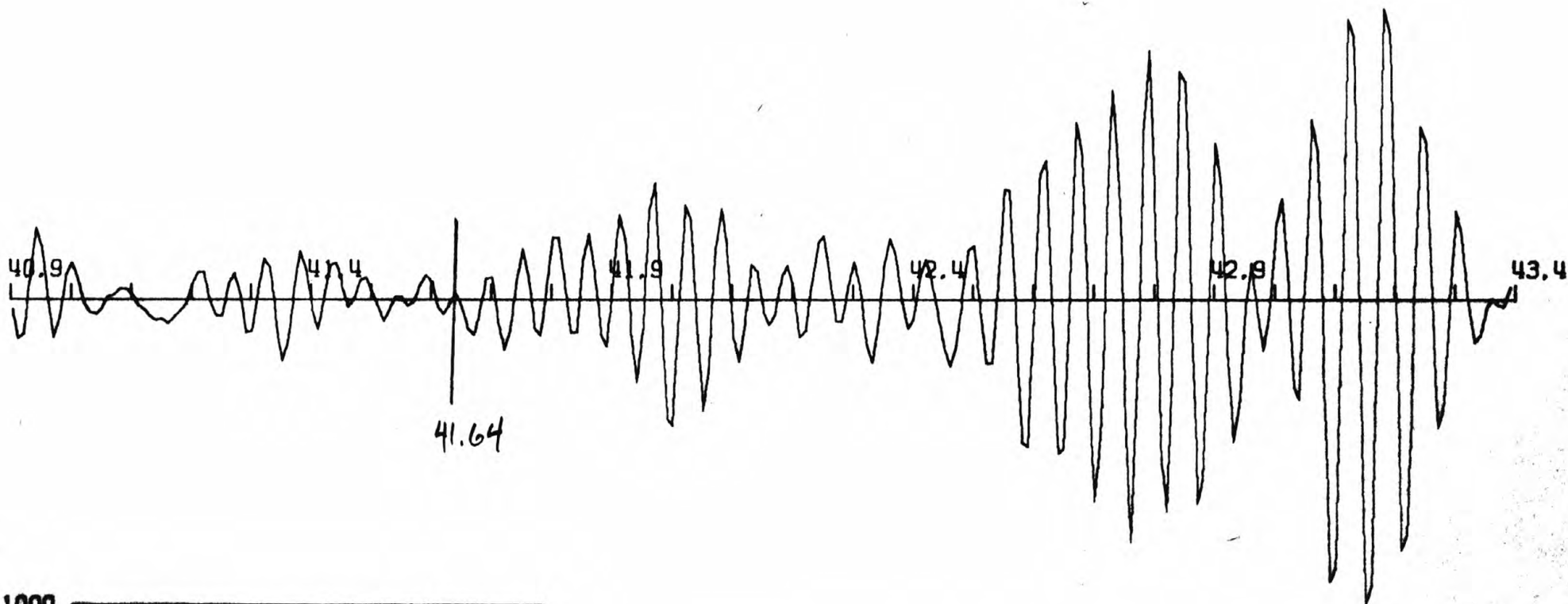
SAUDI REFRACTION PROFILE 15,20 BP

SHOT POINT 4

RECORDER LOCATION 390

DISTANCE FROM SHOT (KM) = 262.340

TSCALE (CM/SEC) = 10.0



SAUDI REFRACTION PROFILE 15.20 BP

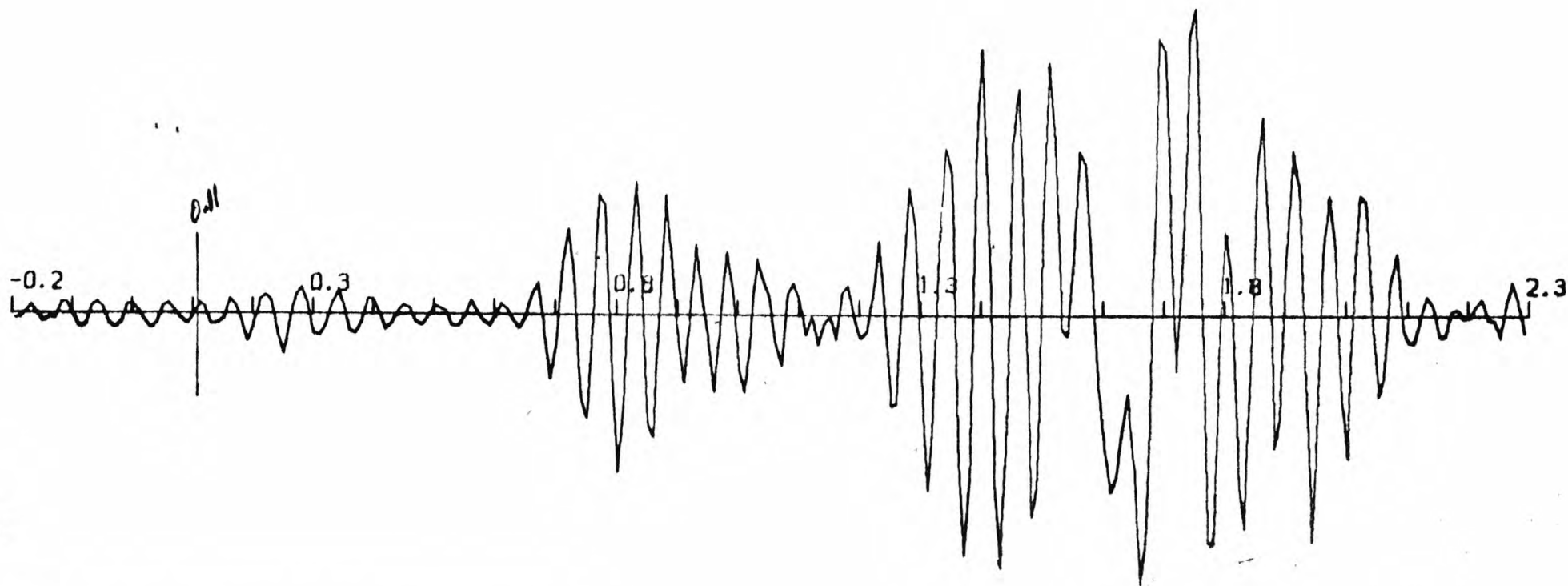
SHOT POINT 4

RECORDER LOCATION 379

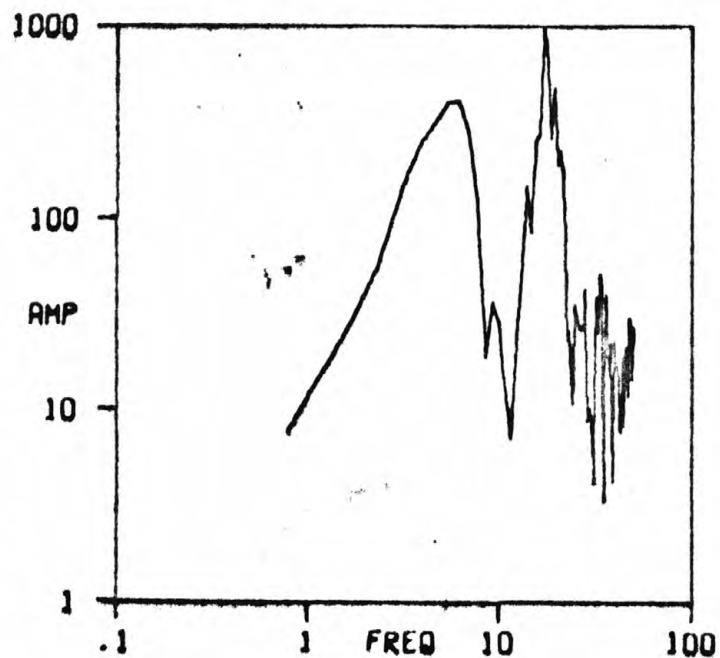
DISTANCE FROM SHOT (KM) = 280.821

TSCALE (CM/SEC) = 10.0

First Arrivals
Southwest from Shot Point 4
(4.3 to 299.3 km)



549



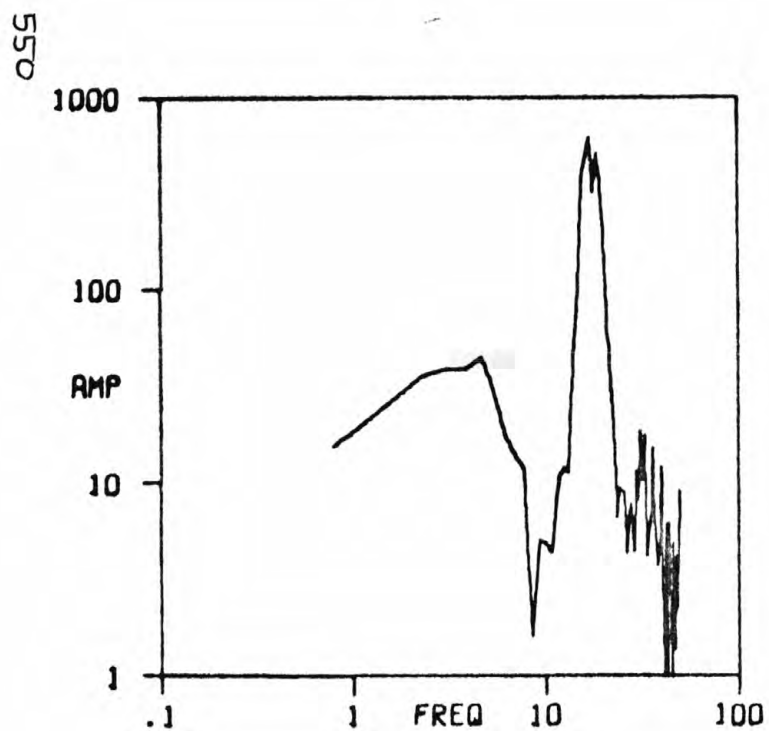
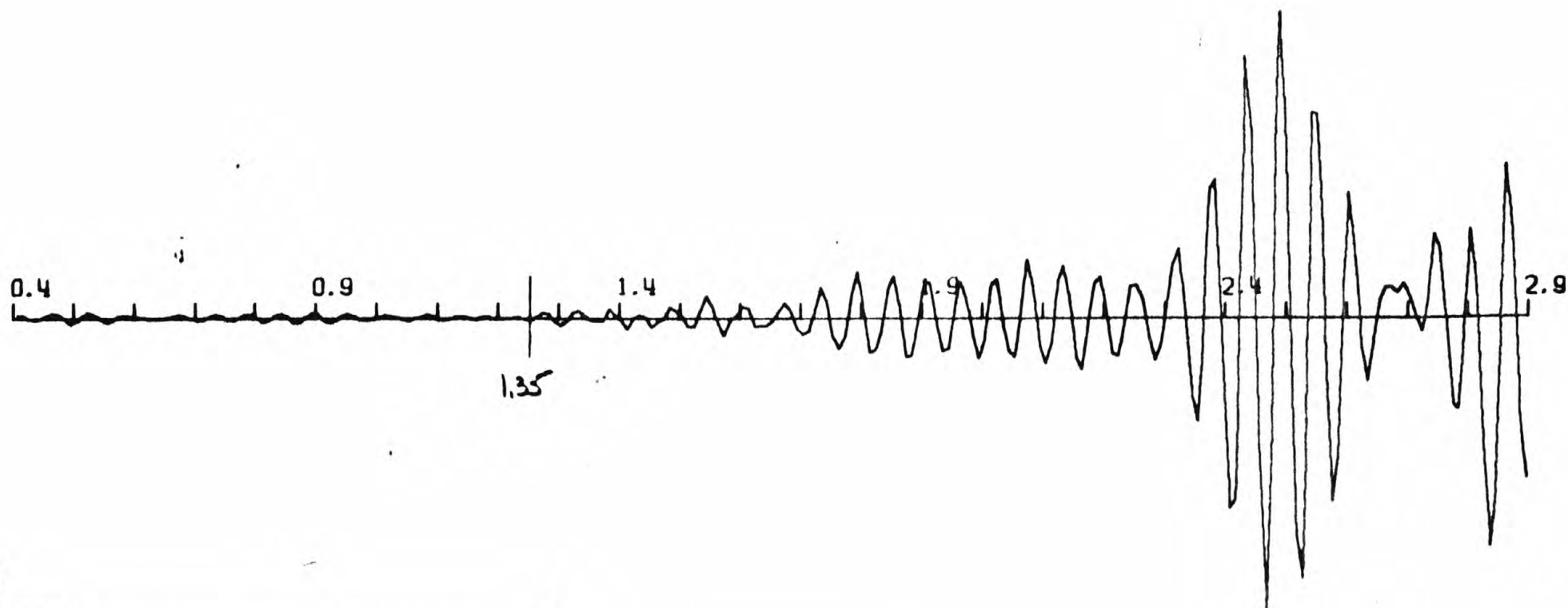
ARABIAN PROFILE 15.20 BP

SHOT POINT 4

RECORDER LOCATION 518

DISTANCE FROM SHOT (KM) = -4.350

TSCALE (CM/SEC) = 10.0



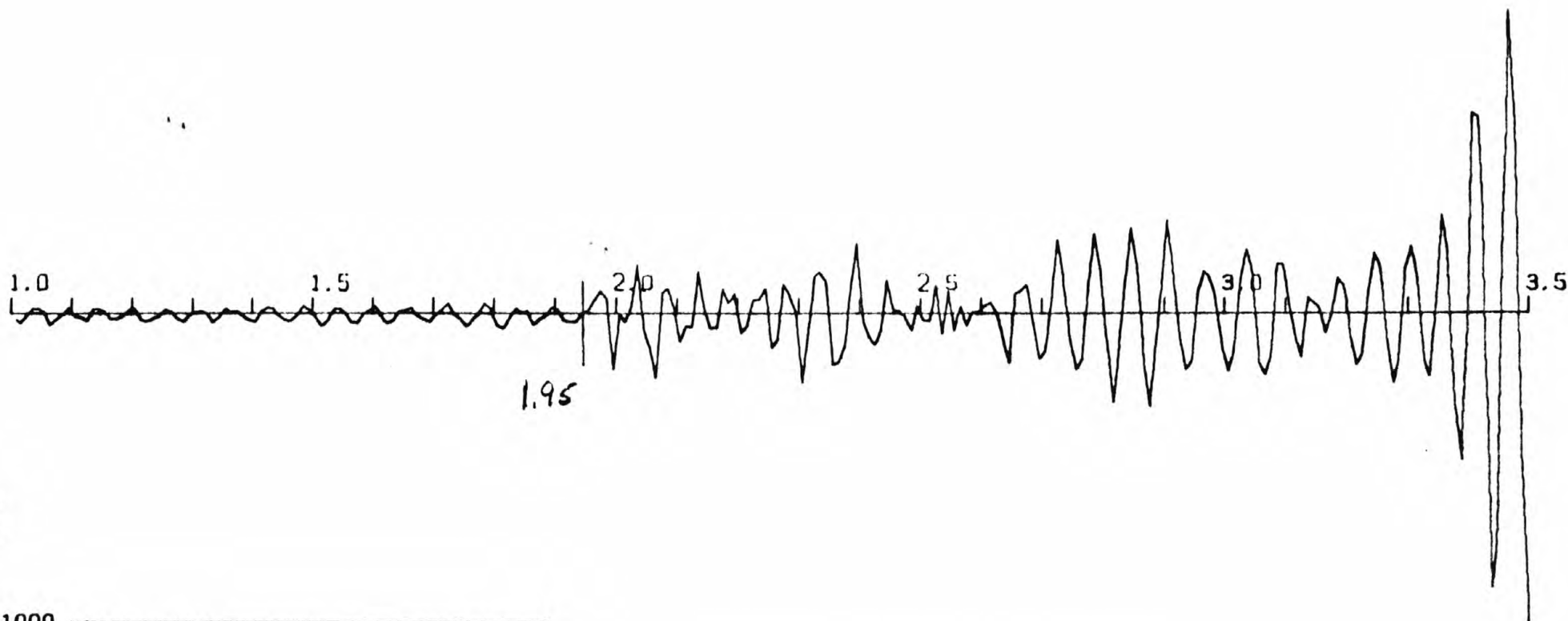
ARABIAN PROFILE 15.20 BP

SHOT POINT 4

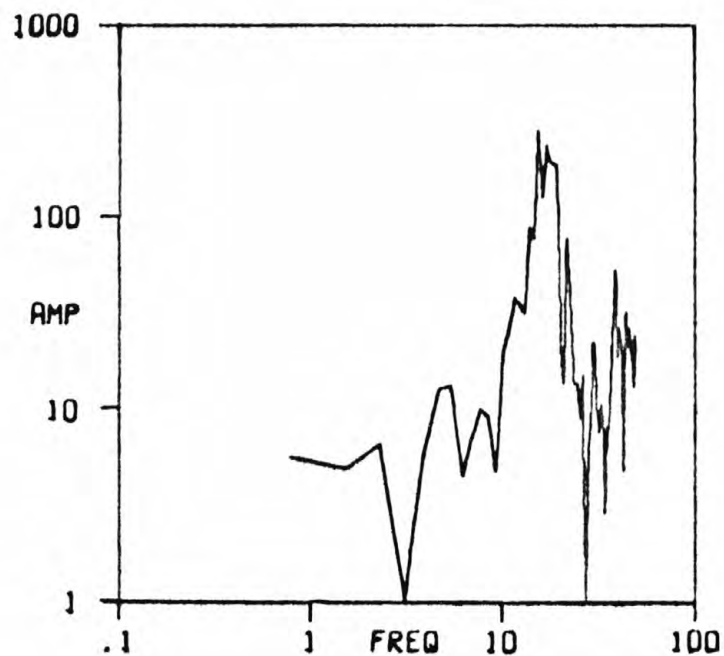
RECORDER LOCATION 519

DISTANCE FROM SHOT (KM) = -7.842

TSCALE (CM/SEC) = 10.0



521



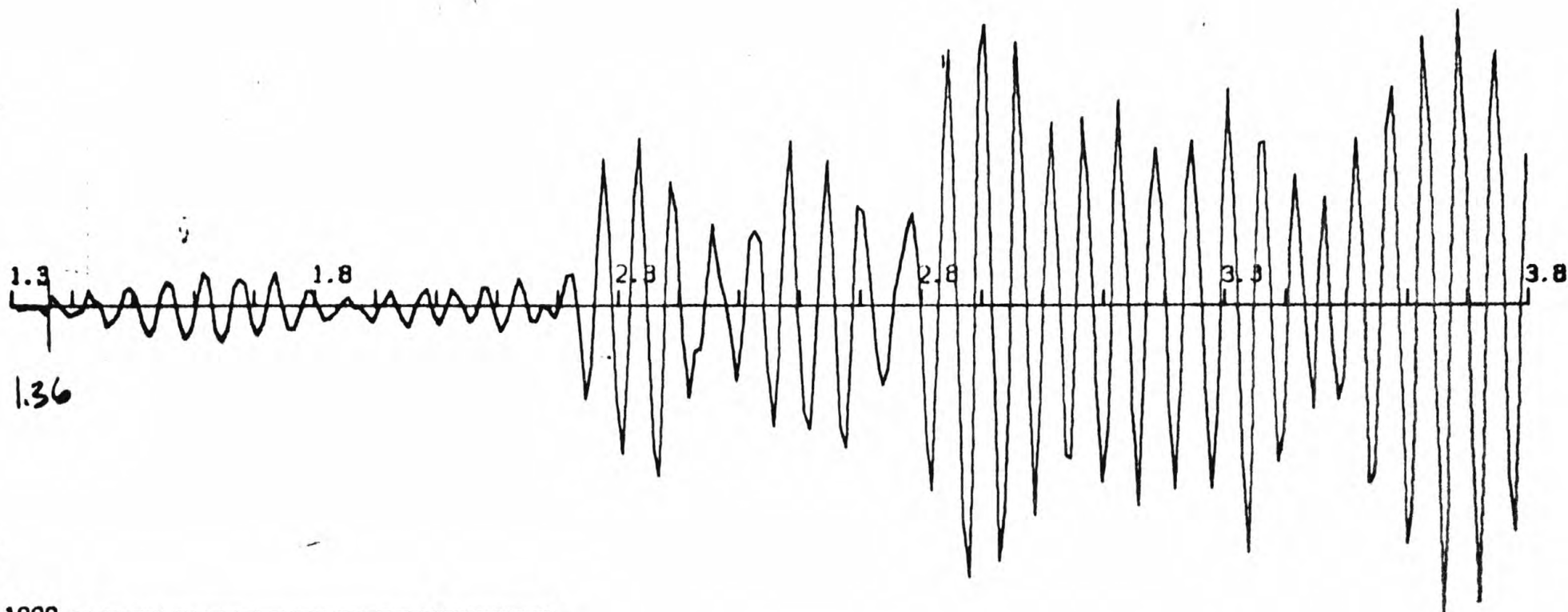
ARABIAN PROFILE 15,20 BP

SHOT POINT 4

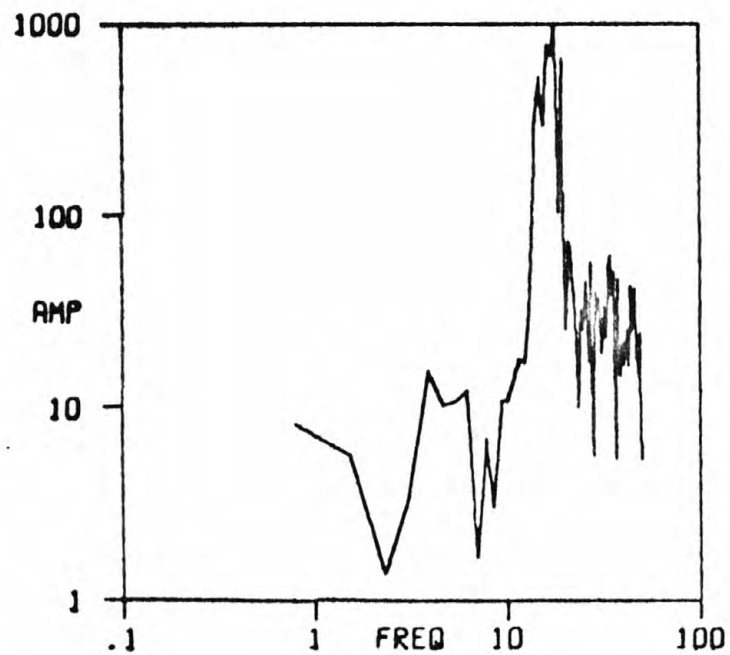
RECORDER LOCATION 521

DISTANCE FROM SHOT (KM) = -11.510

TSCALE (CM/SEC) = 10.0



552



ARABIAN PROFILE 15.20 BP

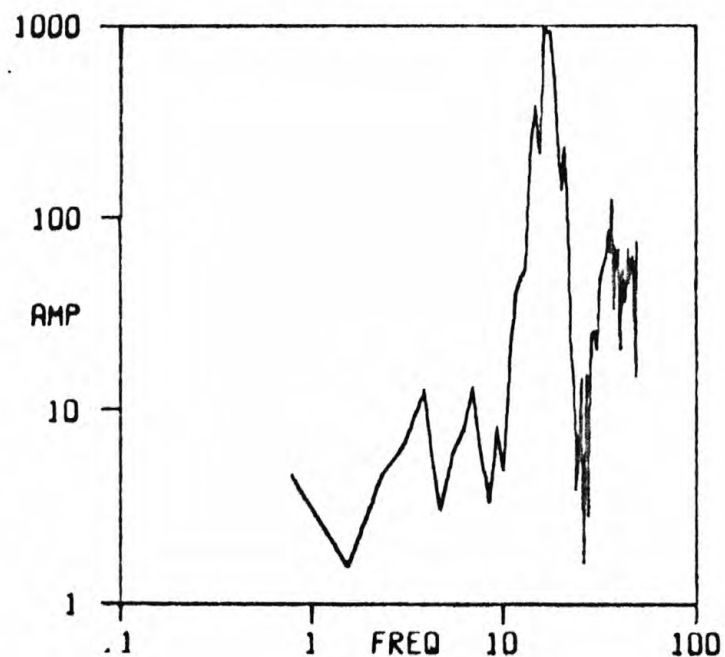
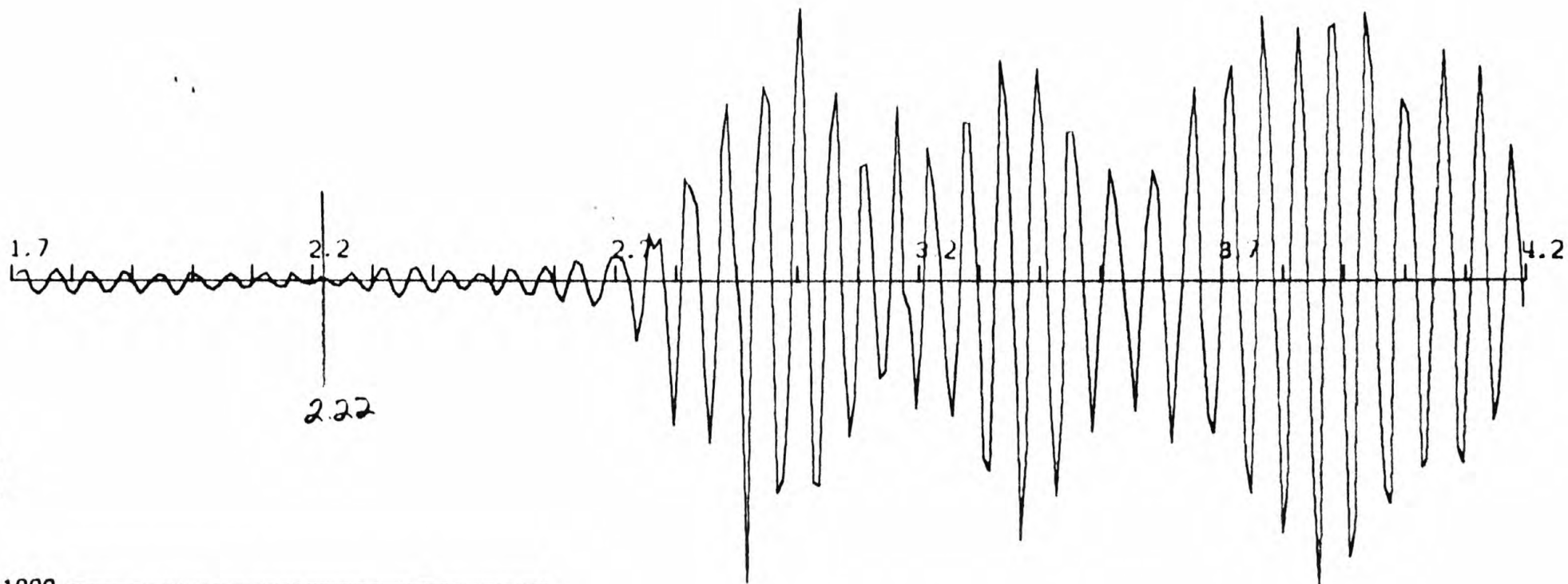
SHOT POINT 4

RECORDER LOCATION 522

DISTANCE FROM SHOT (KM) = -13.432

TSCALE (CM/SEC) = 10.0

553



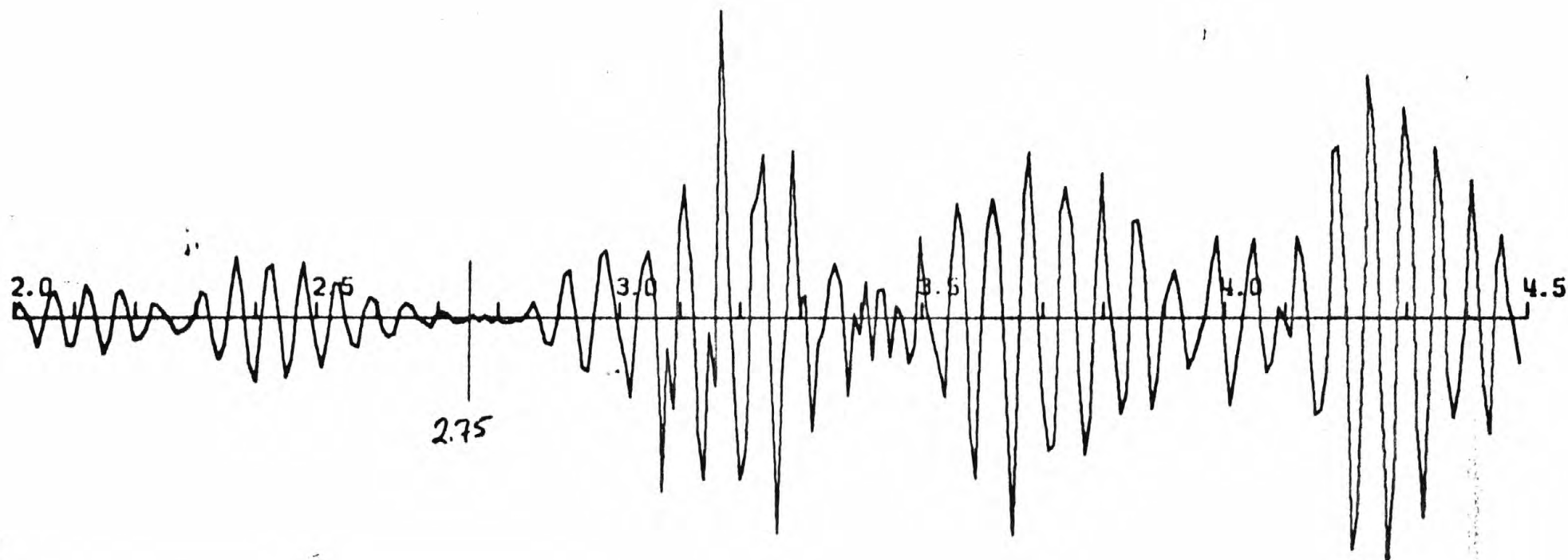
ARABIAN PROFILE 15.20 BP

SHOT POINT 4

RECORDER LOCATION 523

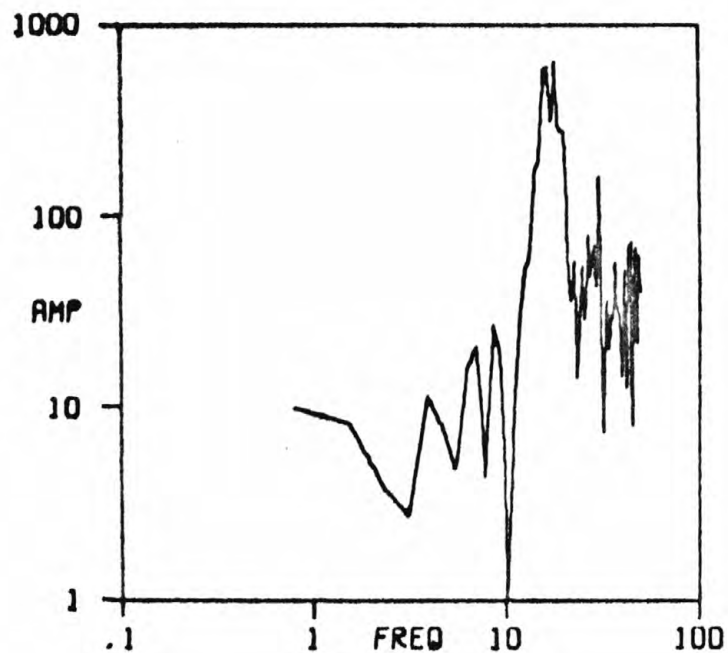
DISTANCE FROM SHOT (KM) = -15.888

TSCALE (CM/SEC) = 10.0



2.75

554



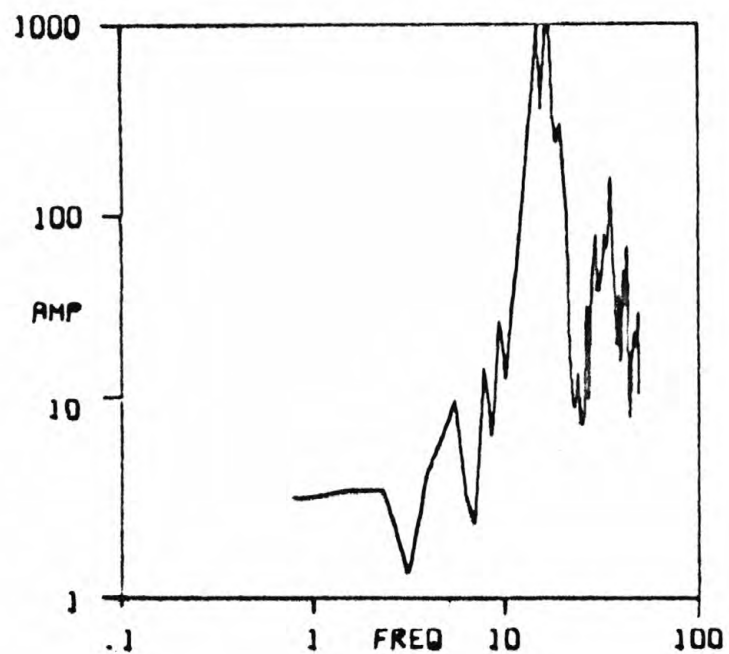
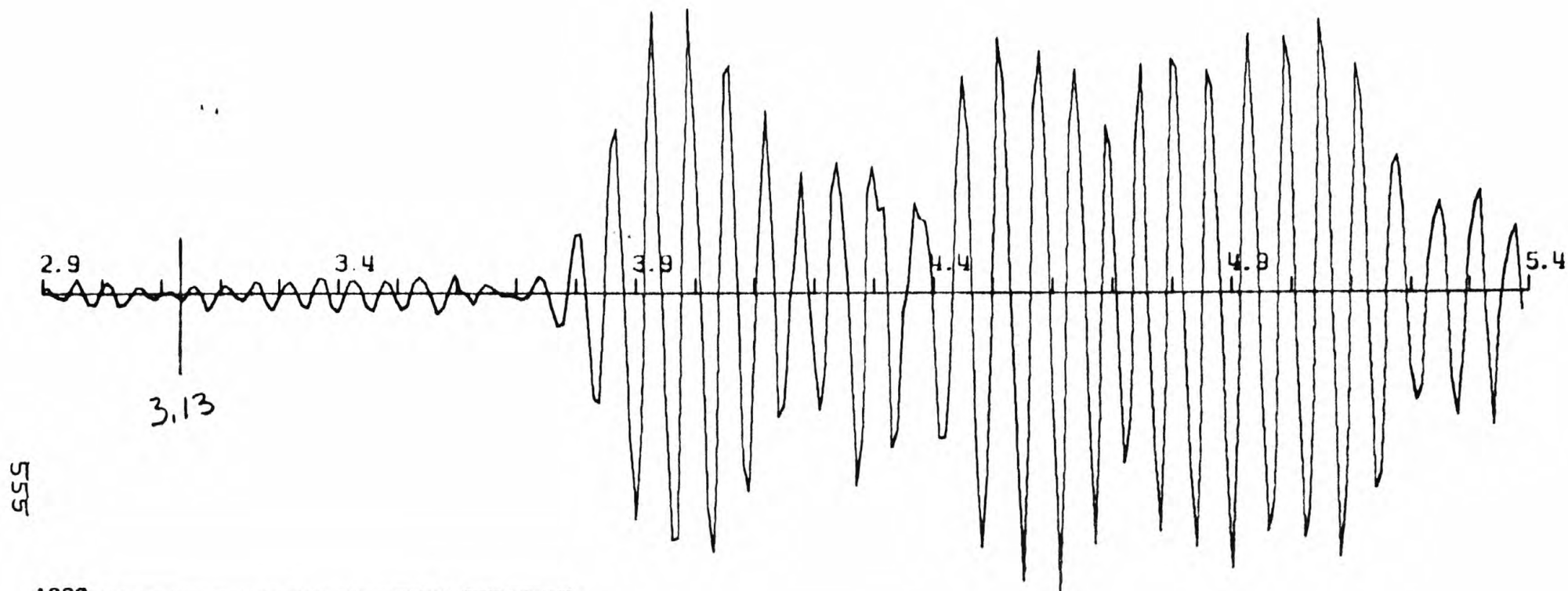
ARABIAN PROFILE 15.20 BP

SHOT POINT 4

RECORDER LOCATION 524

DISTANCE FROM SHOT (KM) = -17.646

TSCALE (CM/SEC) = 10.0



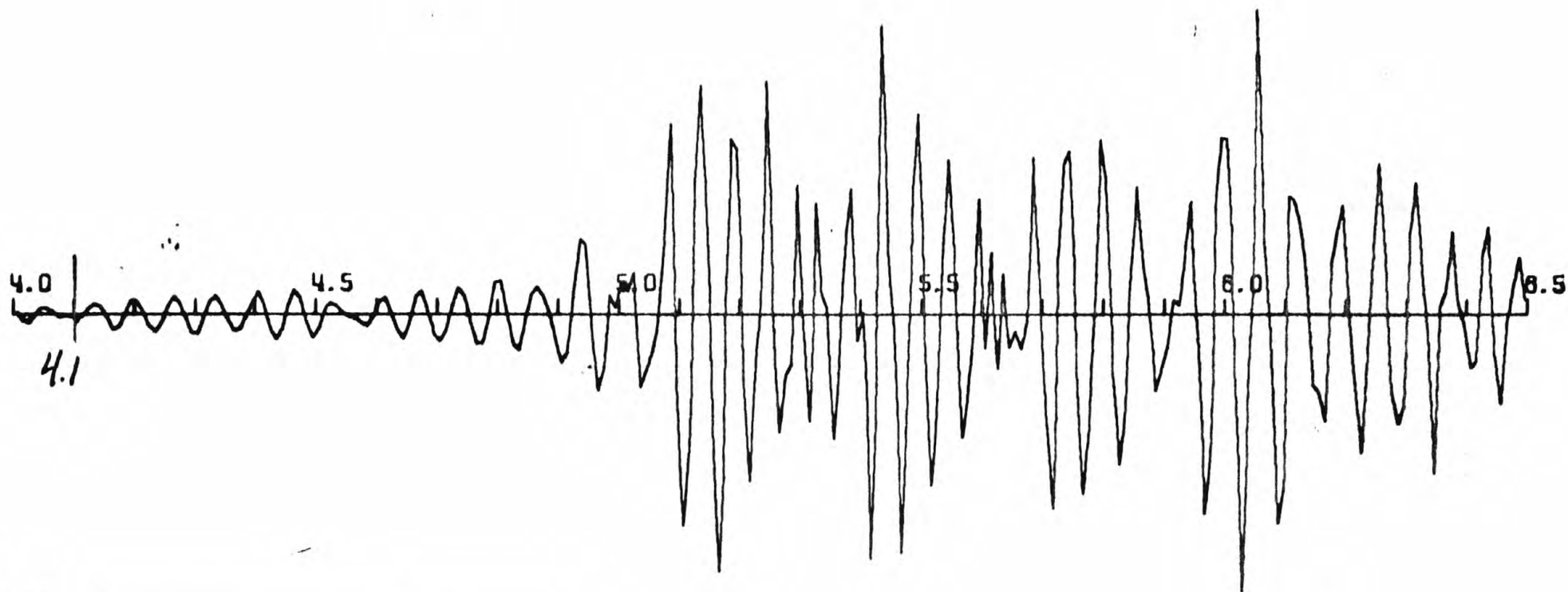
ARABIAN PROFILE 15.20 BP

SHOT POINT 4

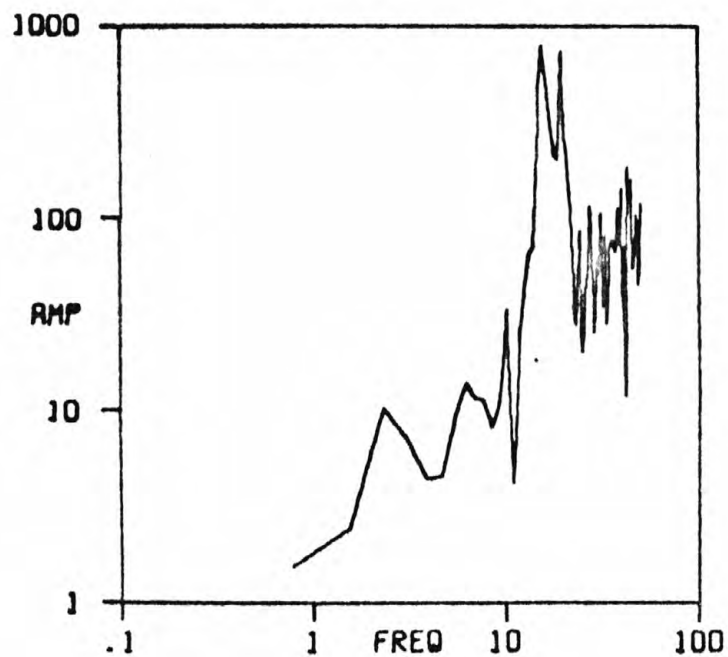
RECORDER LOCATION 527

DISTANCE FROM SHOT (KM) = -22.924

TSCALE (CM/SEC) = 10.0



556



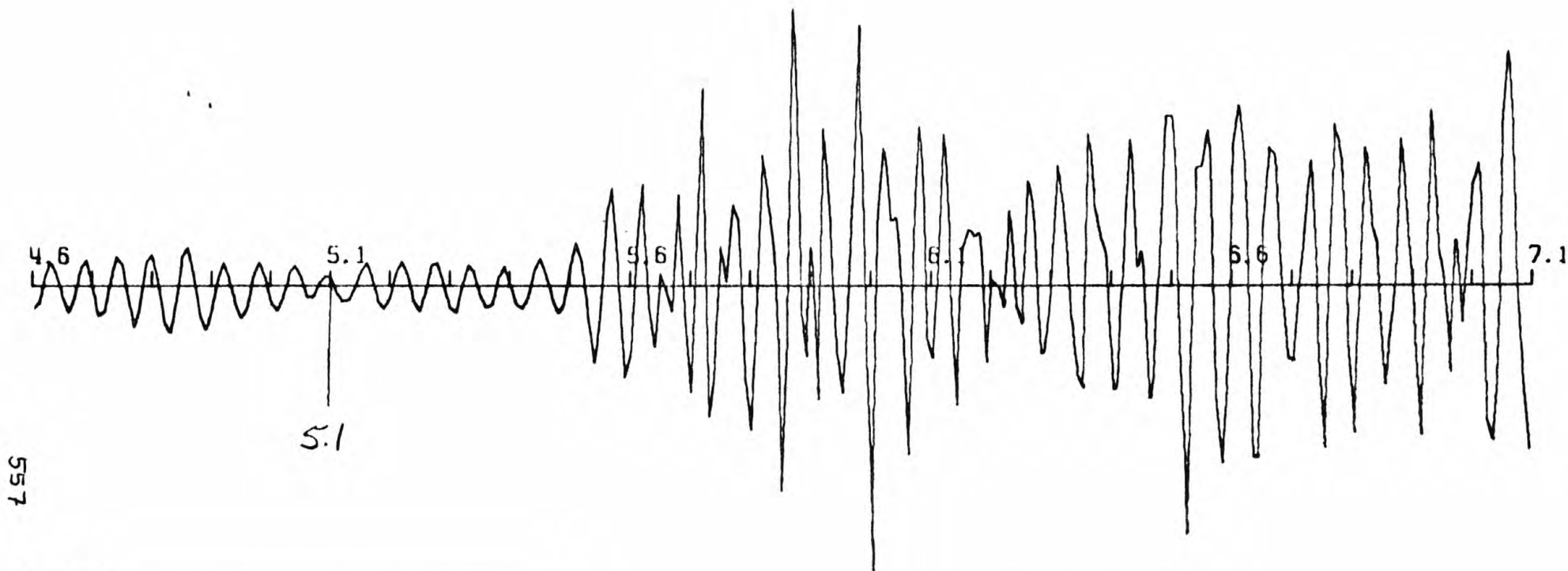
ARABIAN PROFILE 15,20 BP

SHOT POINT 4

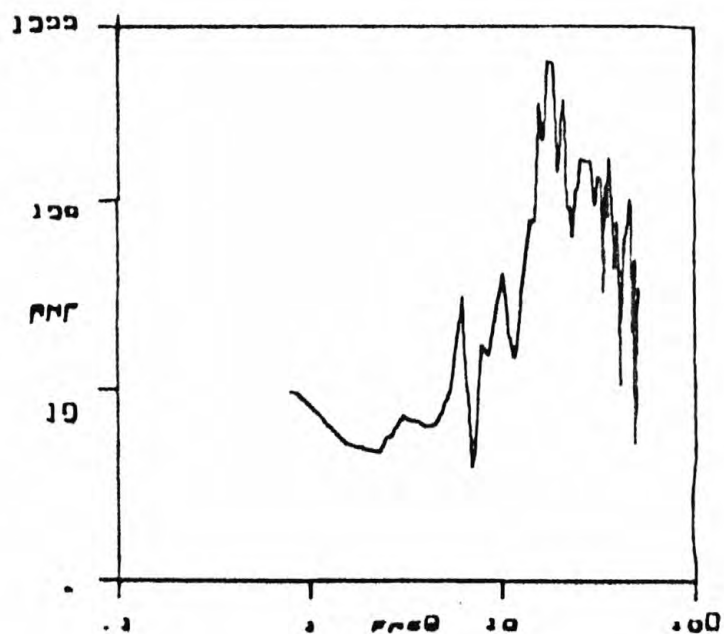
RECORDER LOCATION 530

DISTANCE FROM SHOT (KM) = -29.628

TSCALE (CM/SEC) = 10.0



557



ARABIAN PROFILE 15,20 BP

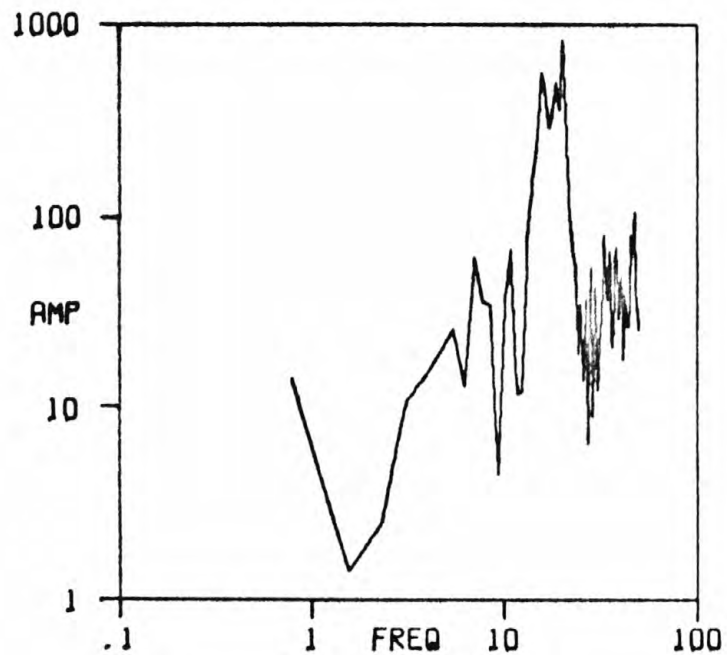
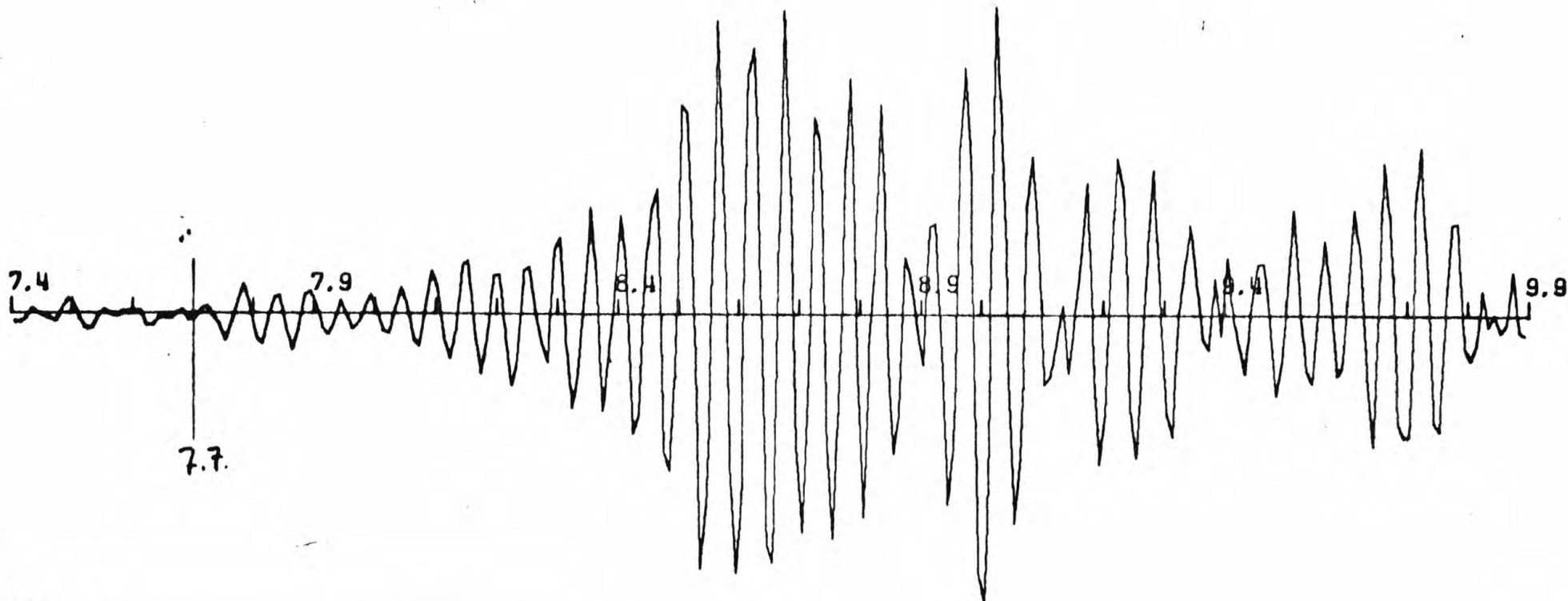
SHOT POINT 4

RECORDER LOCATION 532

DISTANCE FROM SHOT (KM) = -33.504

TSCALE (CM/SEC) = 10.0

558



SAUDI REFRACTION PROFILE 15,20 BP

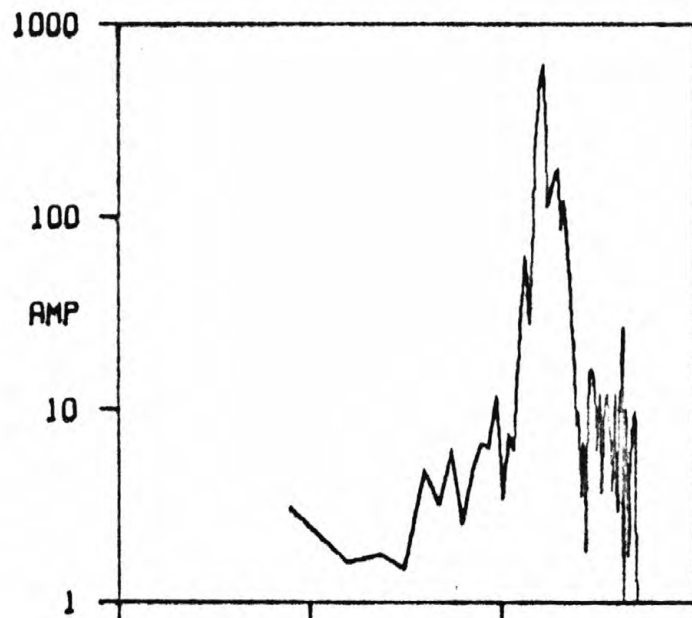
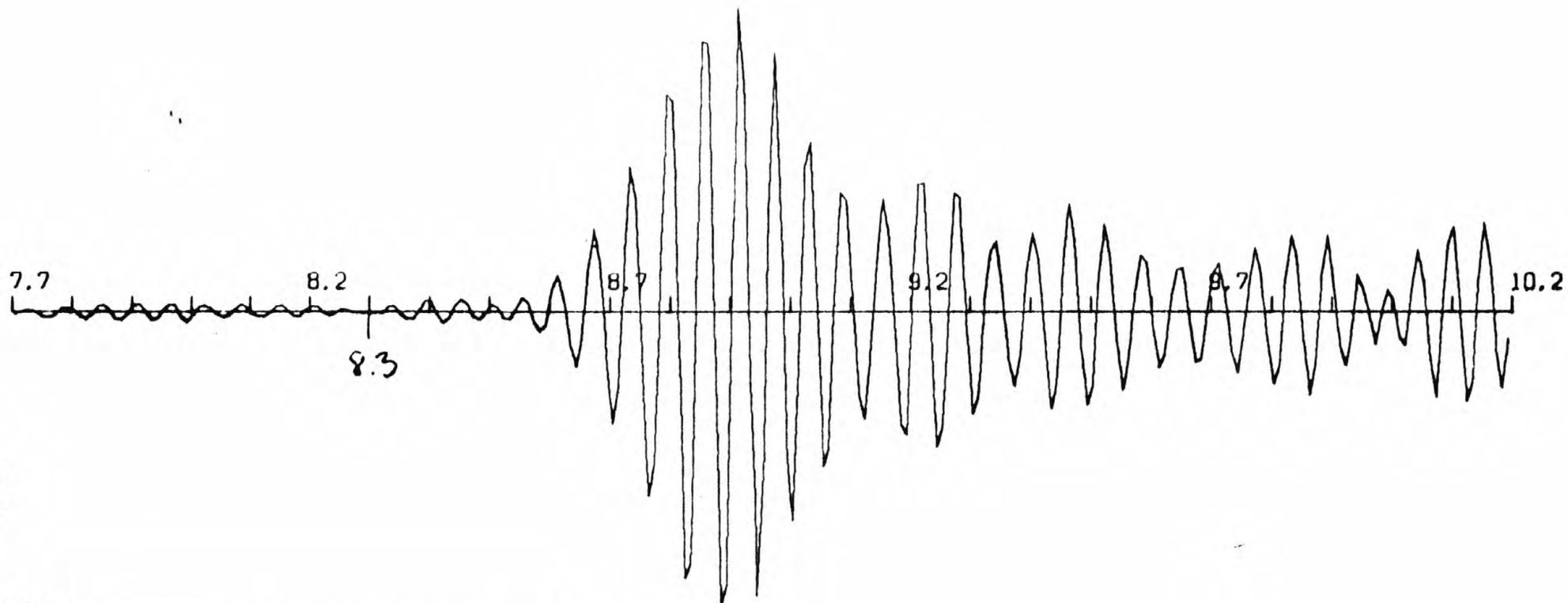
SHOT POINT 4

RECORDER LOCATION 540

DISTANCE FROM SHOT (KM) = -49,893

TSCALE (CM/SEC) = 10.0

559



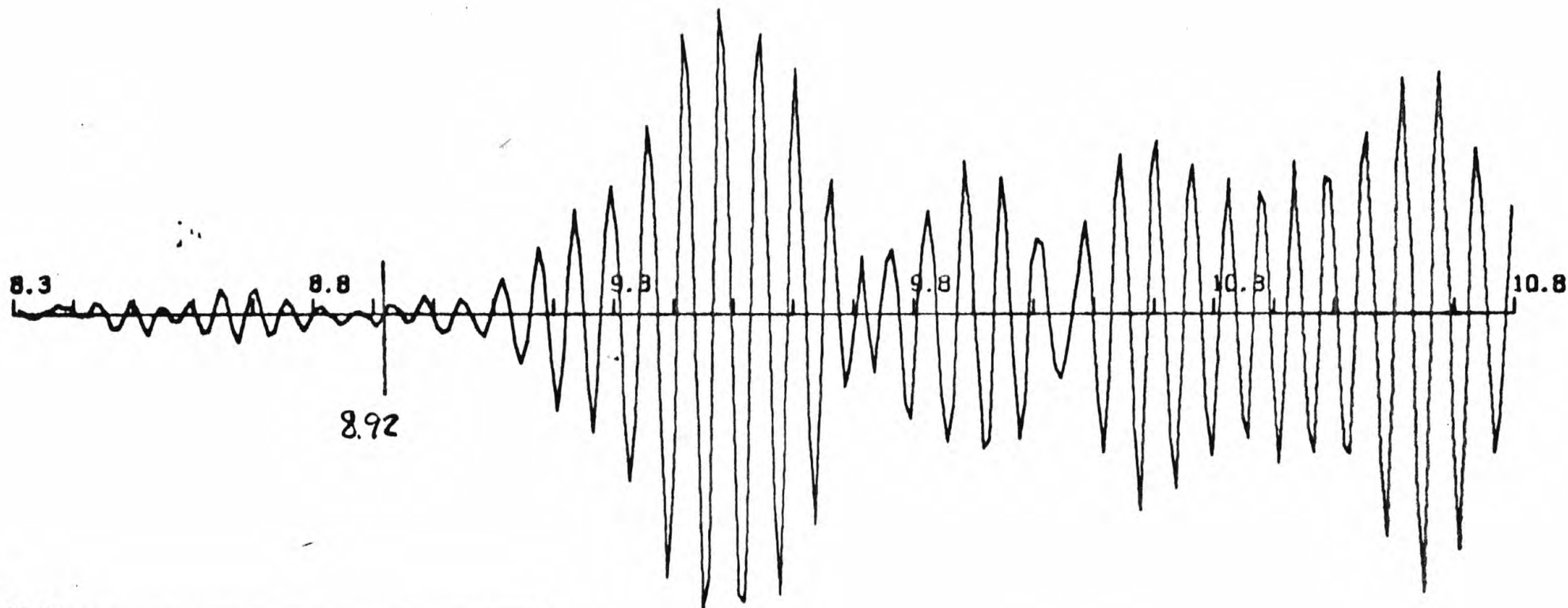
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 4

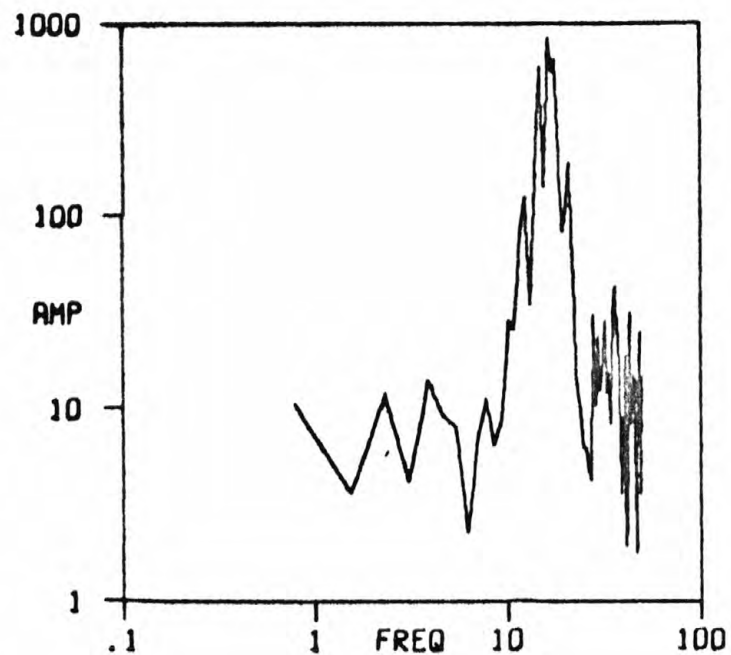
RECORDER LOCATION 541

DISTANCE FROM SHOT (KM) = -51.749

TSCALE (CM/SEC) = 10.0



525



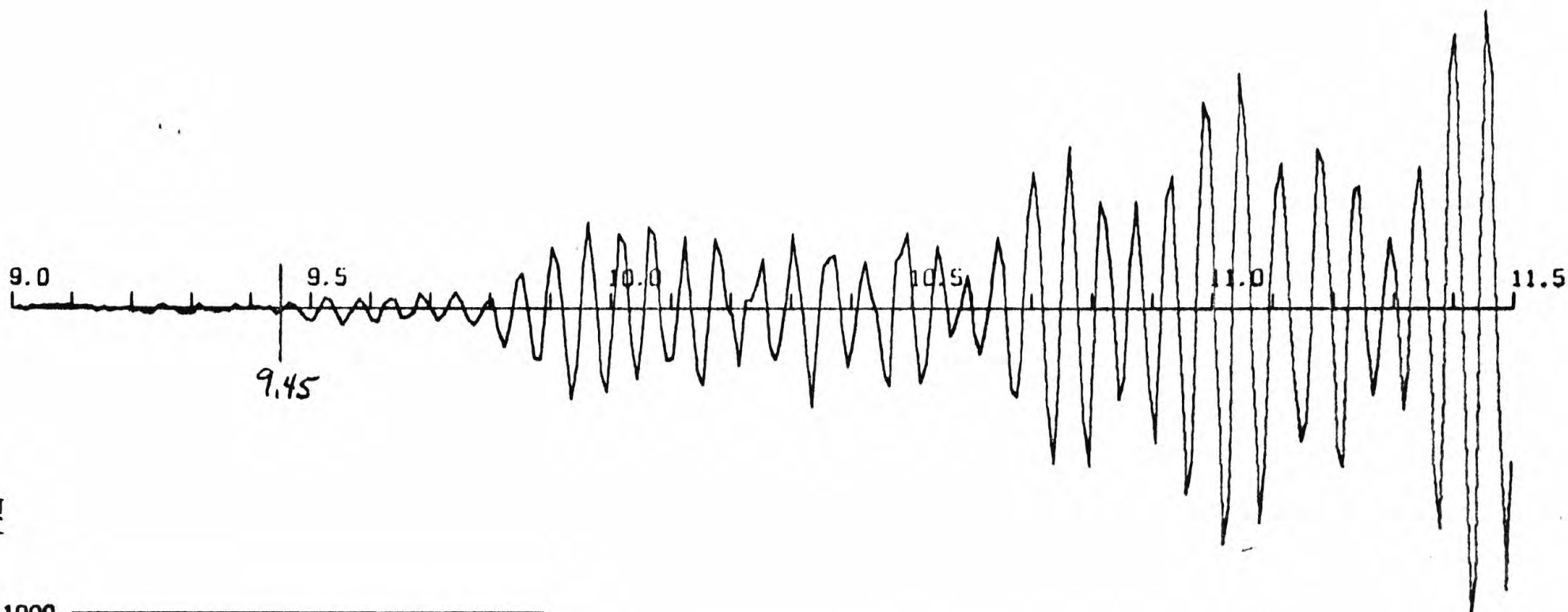
ARABIAN PROFILE 15,20 BP

SHOT POINT 4

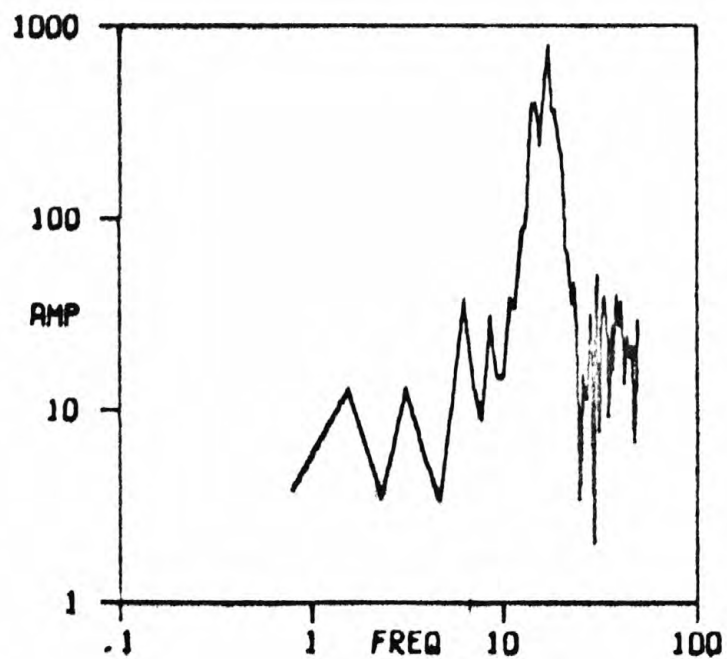
RECORDER LOCATION 544

DISTANCE FROM SHOT (KM) = -55.251

TSCALE (CM/SEC) = 10.0



561



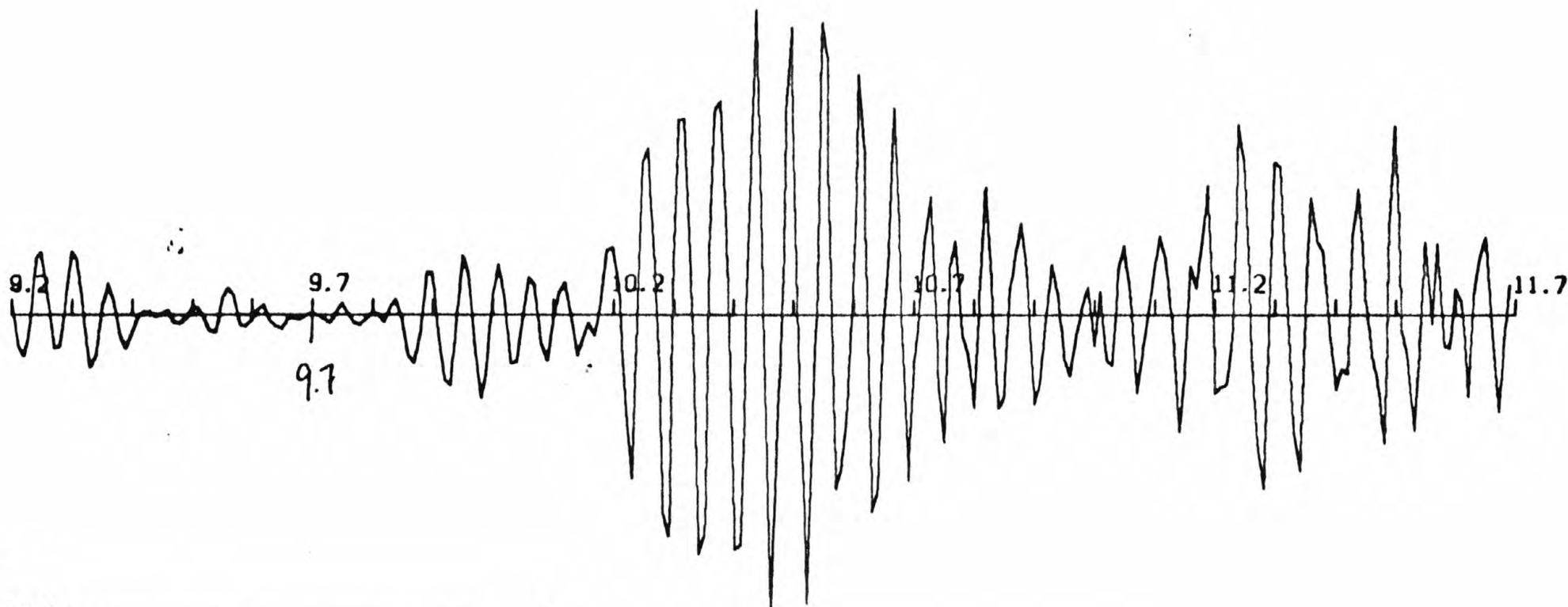
ARABIAN PROFILE 15.20 BP

SHOT POINT 4

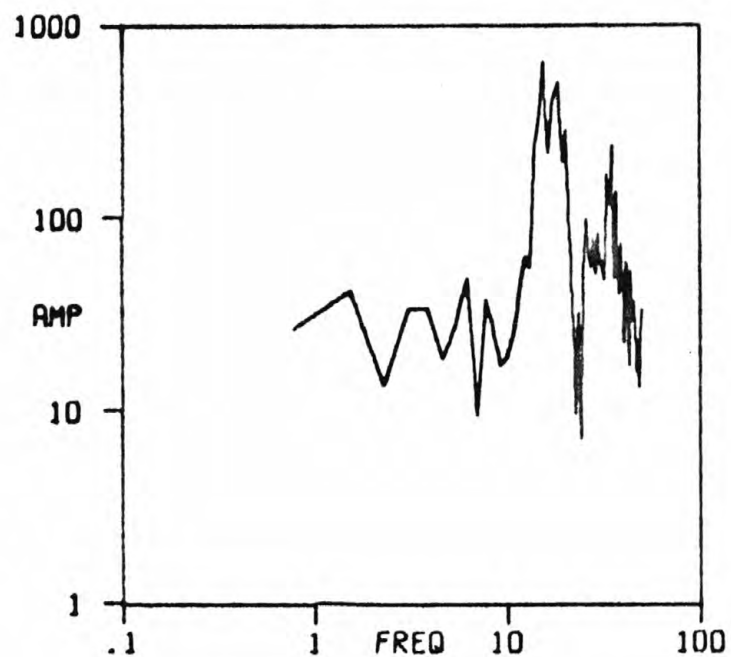
RECORDER LOCATION 548

DISTANCE FROM SHOT (KM) = -59.859

TSCALE (CM/SEC) = 10.0



562



ARABIAN PROFILE 15.20 BP

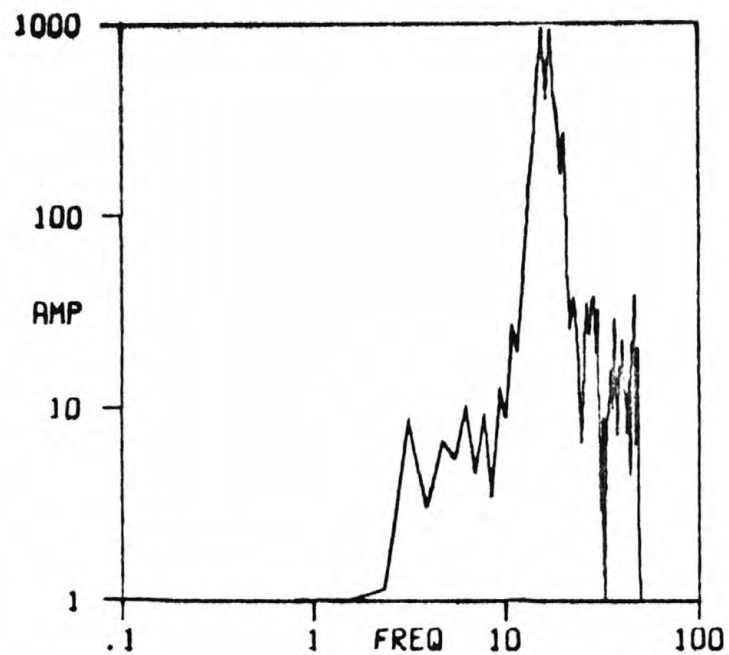
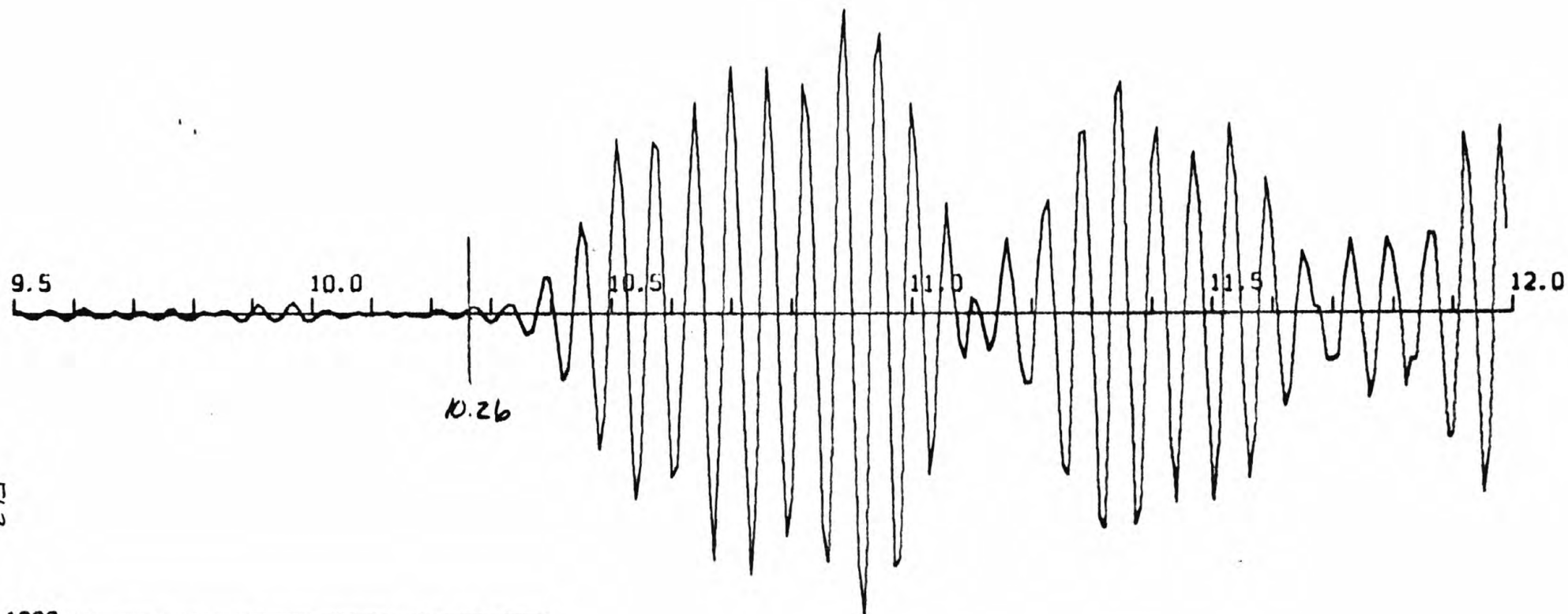
SHOT POINT 4

RECORDER LOCATION 548

DISTANCE FROM SHOT (KM) = -60.974

TSCALE (CM/SEC) = 10.0

563



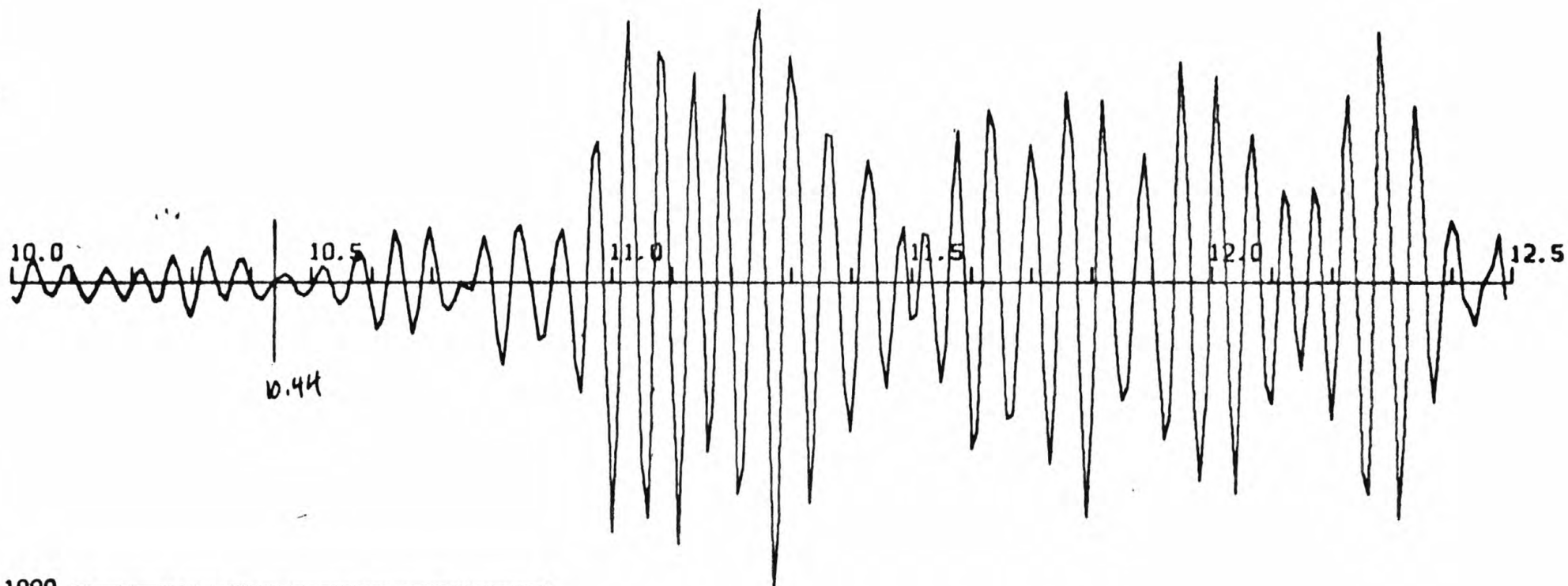
ARABIAN PROFILE 15.20 BP

SHOT POINT 4

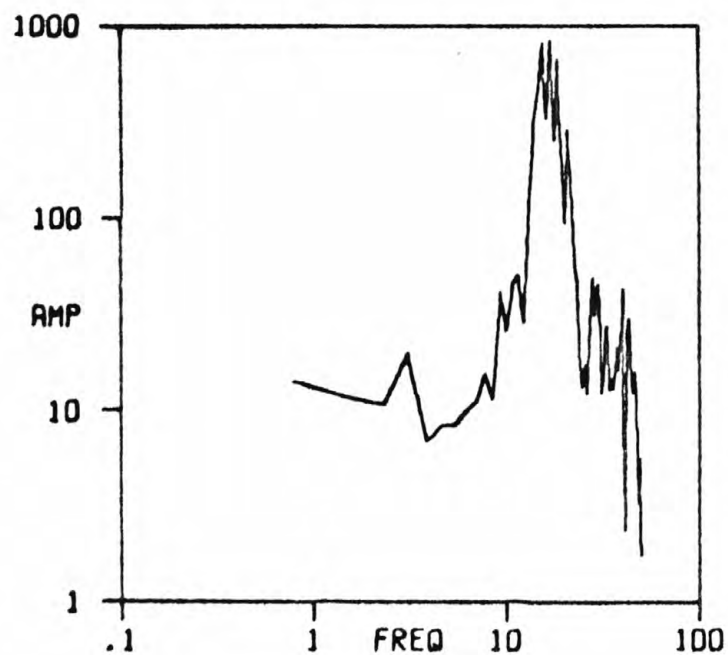
RECORDER LOCATION 550

DISTANCE FROM SHOT (KM) = -82.949

TSCALE (CM/SEC) = 10.0



564



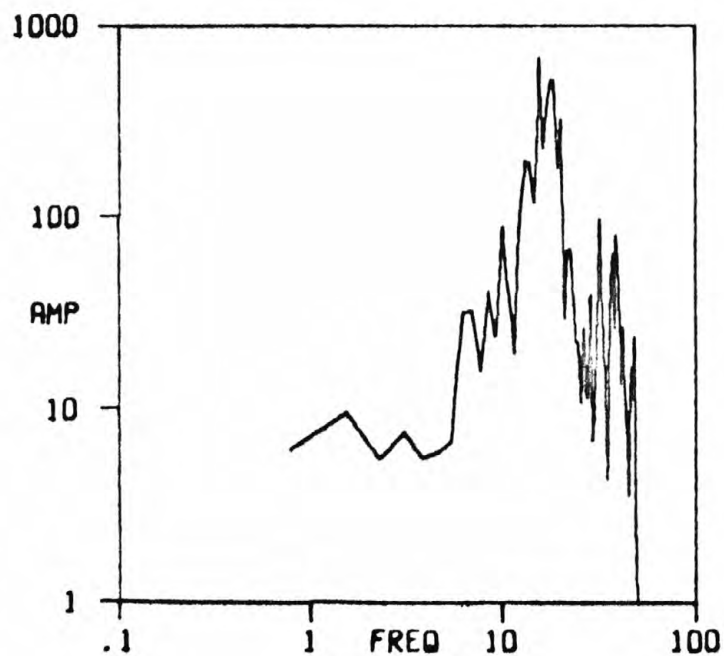
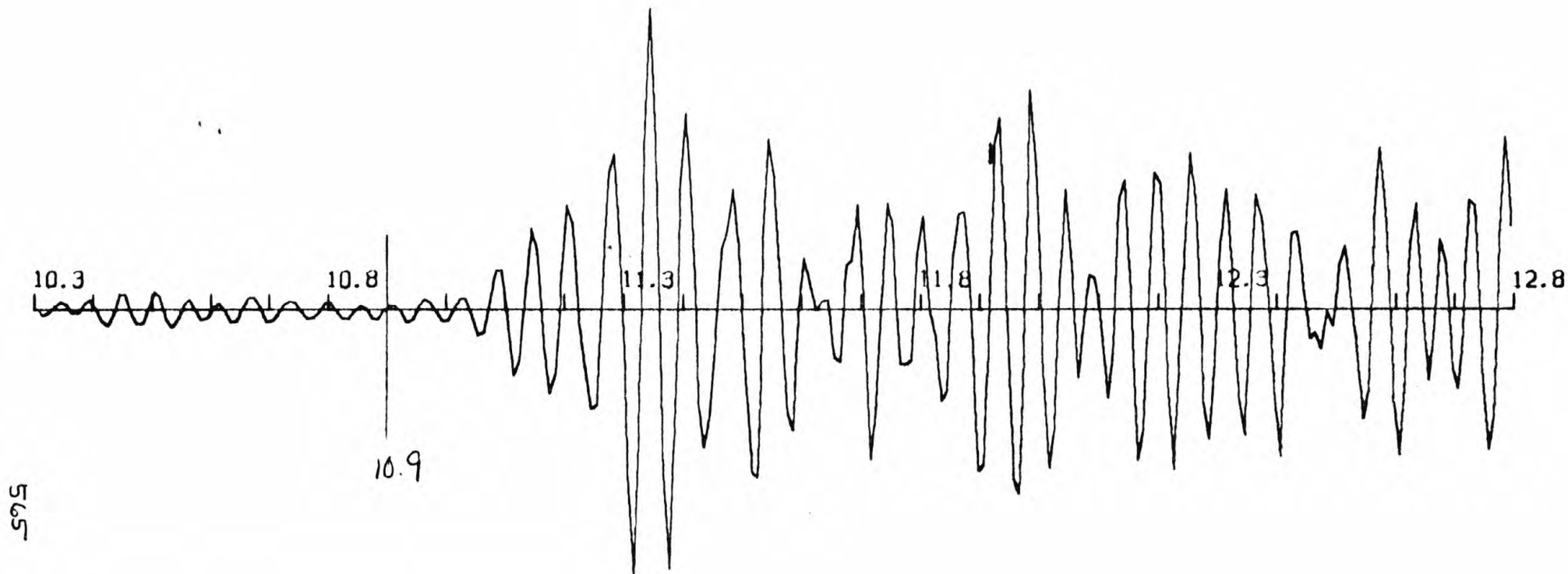
ARABIAN PROFILE 15.20 BP

SHOT POINT 4

RECORDER LOCATION 552

DISTANCE FROM SHOT (KM) = -65.404

TSCALE (CM/SEC) = 10.0



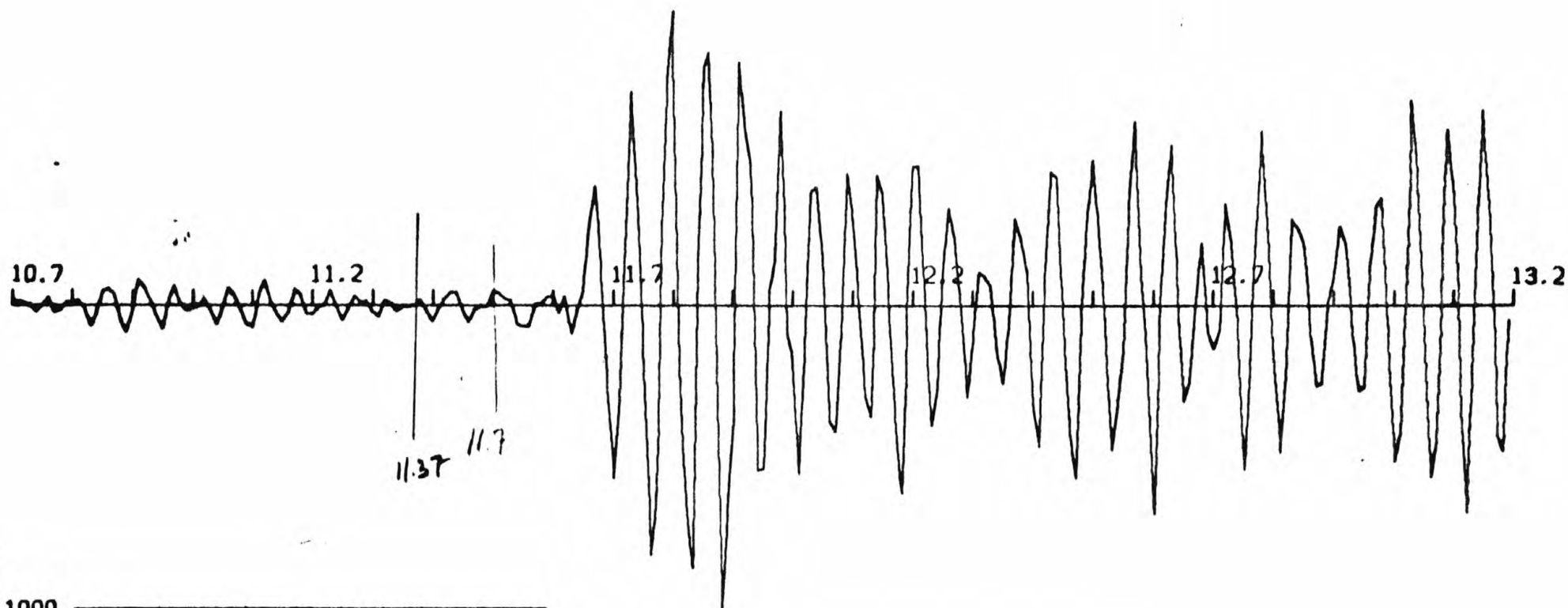
ARABIAN PROFILE 15.20 BP

SHOT POINT 4

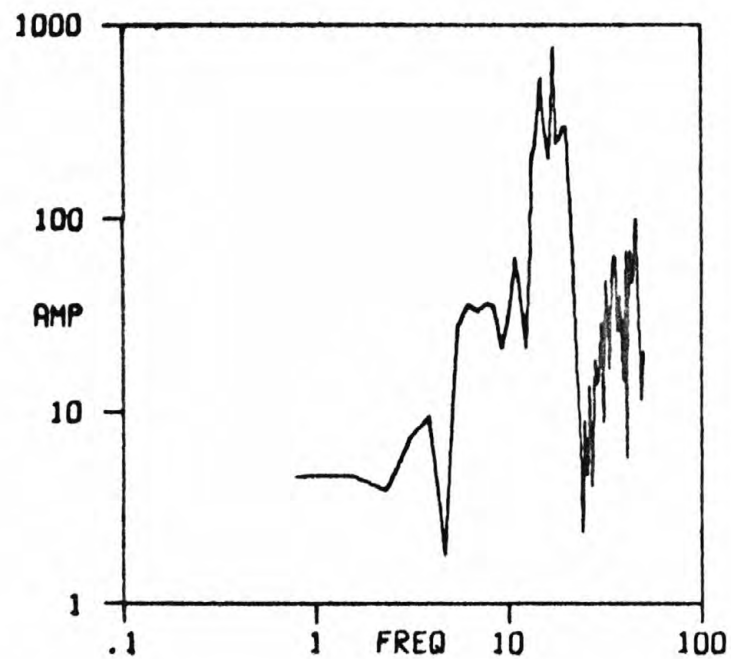
RECORDER LOCATION 553

DISTANCE FROM SHOT (KM) = -67.787

TSCALE (CM/SEC) = 10.0



566



ARABIAN PROFILE 15.20 BP

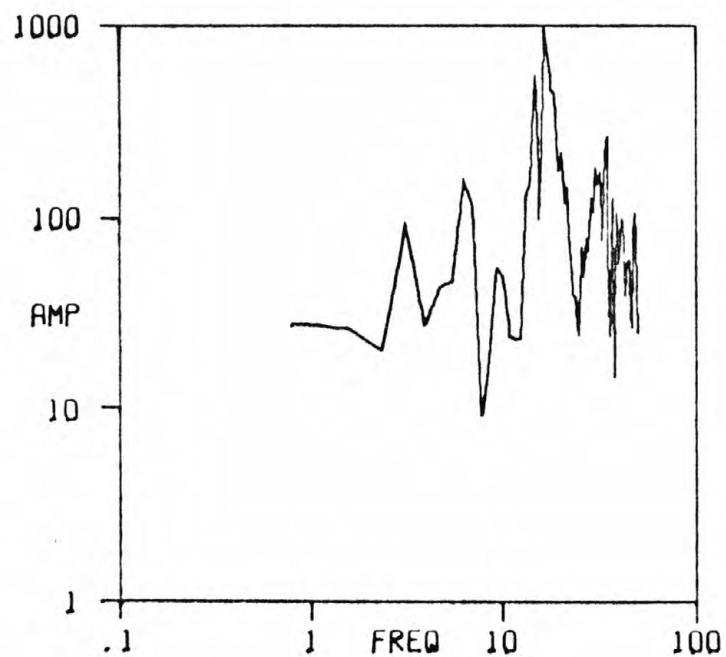
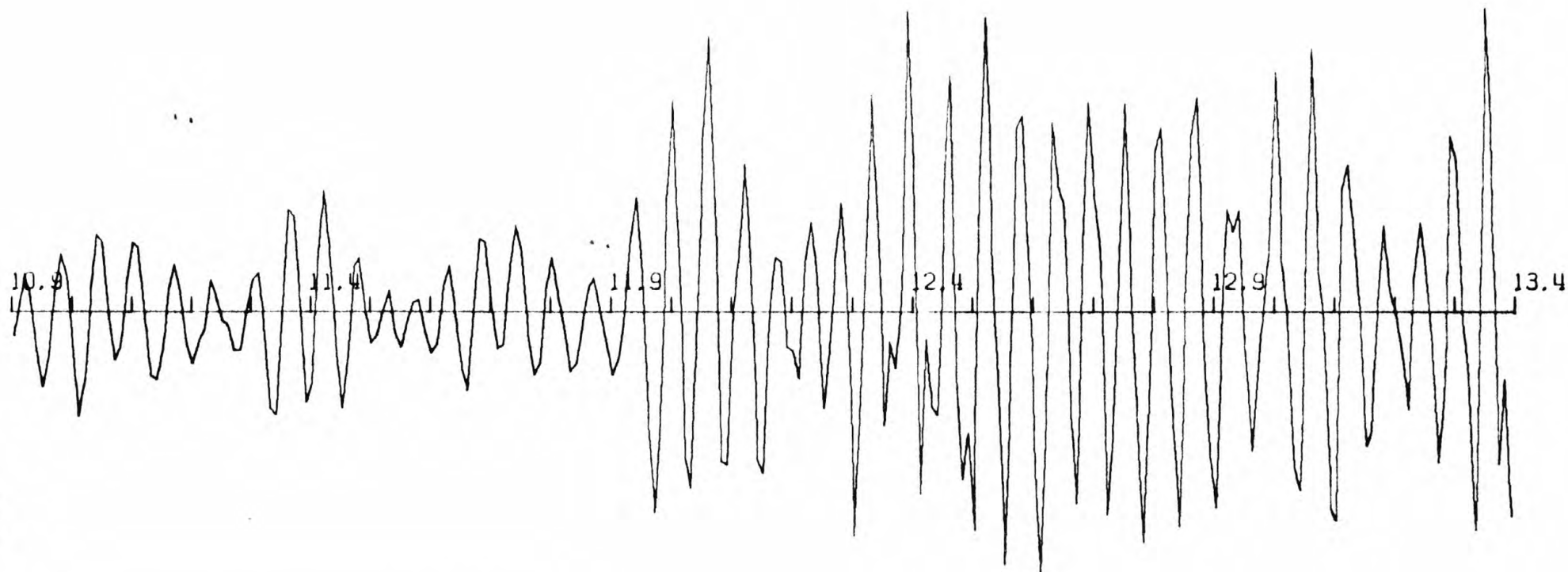
SHOT POINT 4

RECORDER LOCATION 554

DISTANCE FROM SHOT (KM) = -69.858

TSCALE (CM/SEC) = 10.0

567



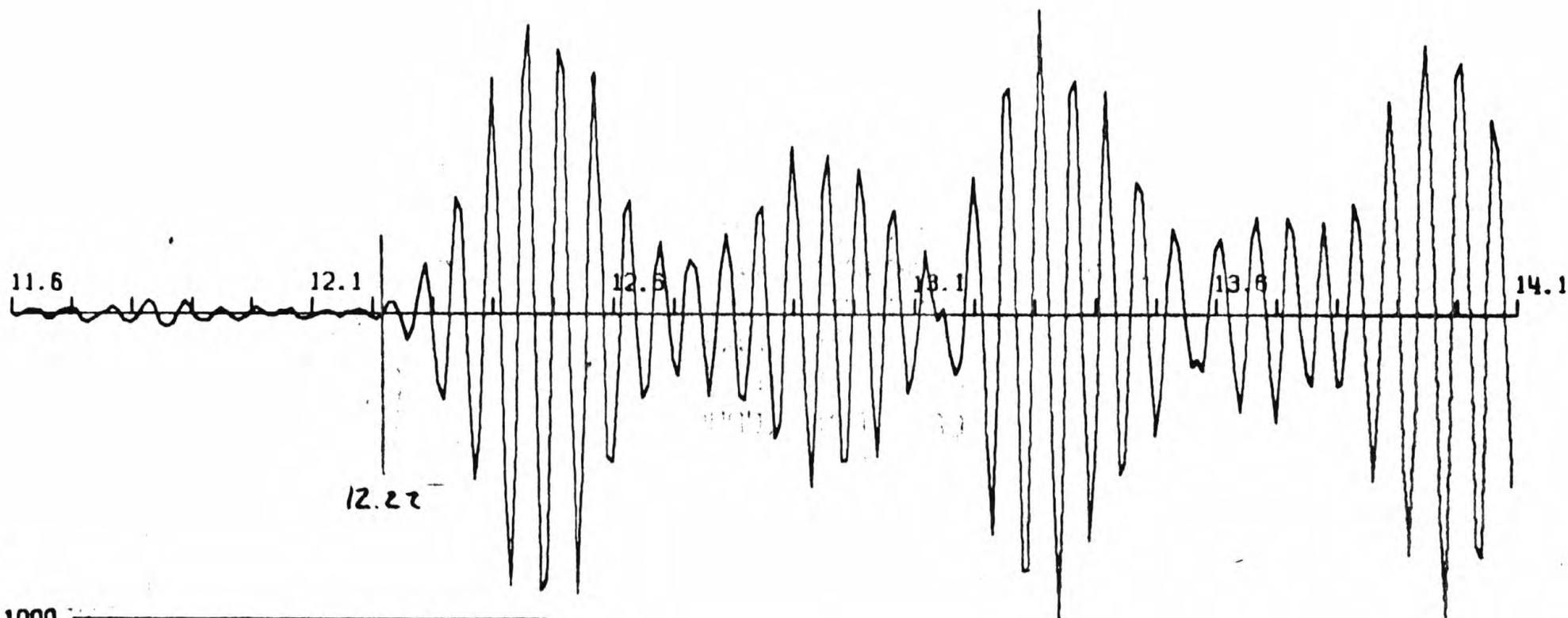
SAUDI REFRACTION PROFILE 15,20 BP

SHOT POINT 4

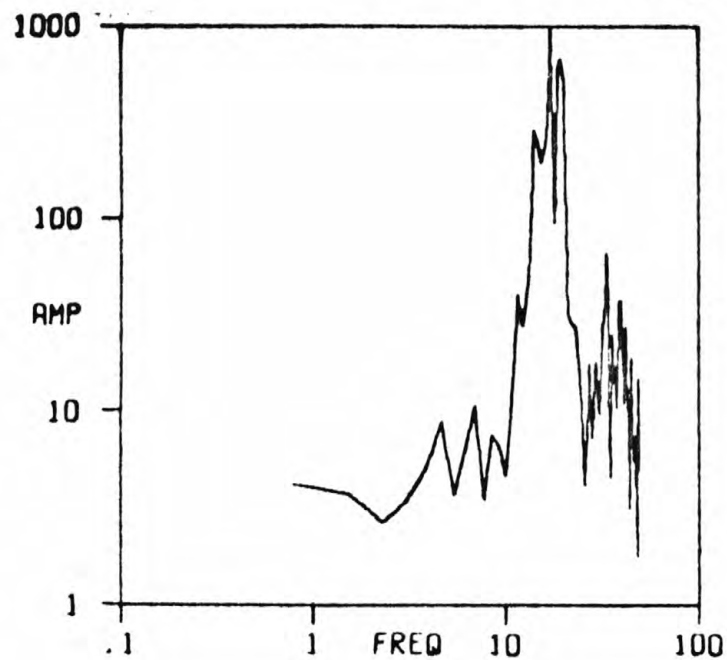
RECORDER LOCATION 556

DISTANCE FROM SHOT (KM) = -71.244

TSCALE (CM/SEC) = 10.0



568



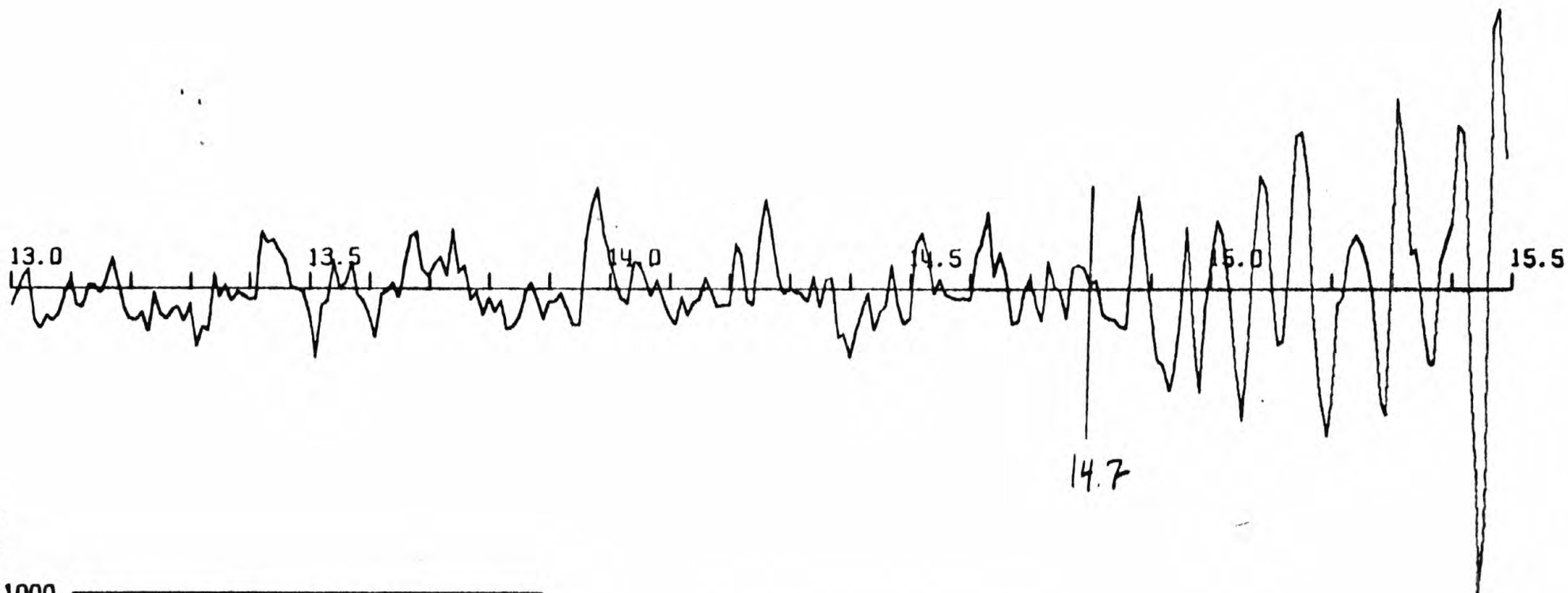
ARABIAN PROFILE 15.20 BP

SHOT POINT 4

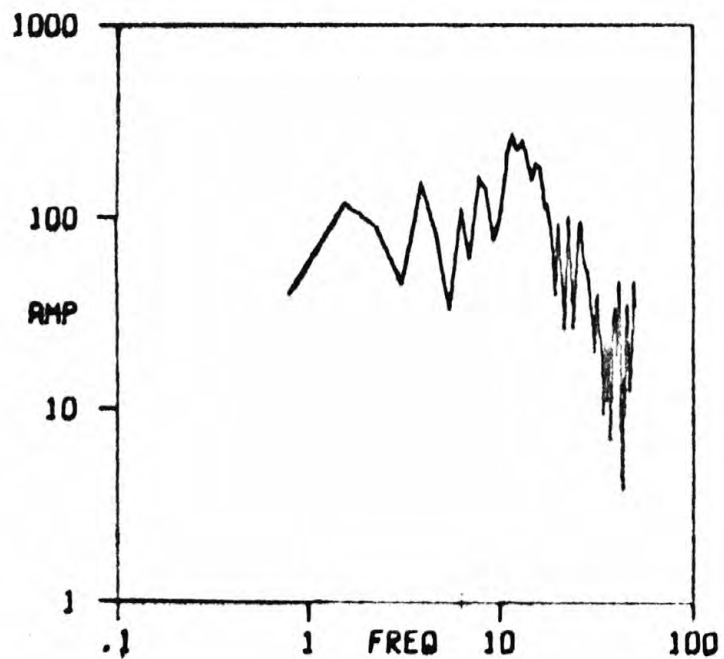
RECORDER LOCATION 557

DISTANCE FROM SHOT (KM) = -75.306

TSCALE (CM/SEC) = 10.0



563



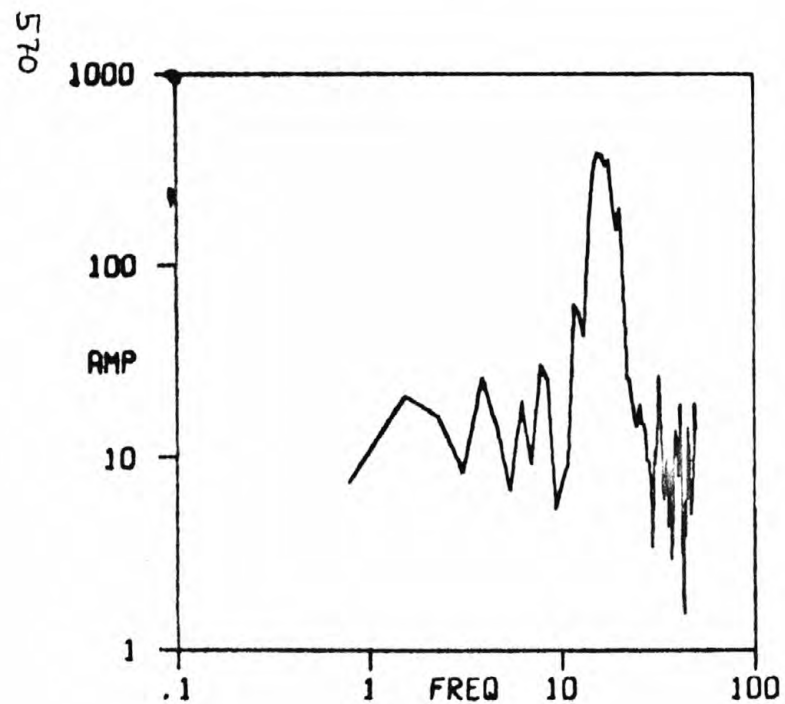
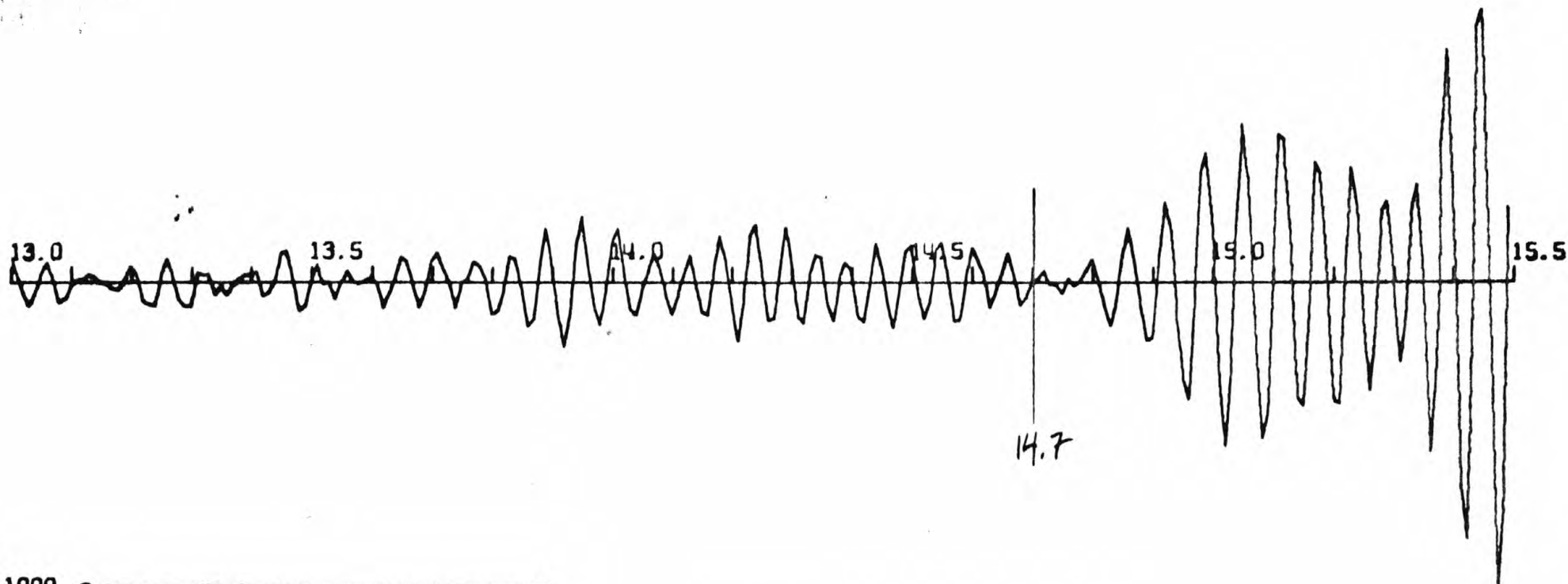
SAUDIPROFILE 30 LP

SHOT POINT 4

RECORDER LOCATION 563

DISTANCE FROM SHOT (KM) = -89.950

TSCALE (CM/SEC) = 10.0



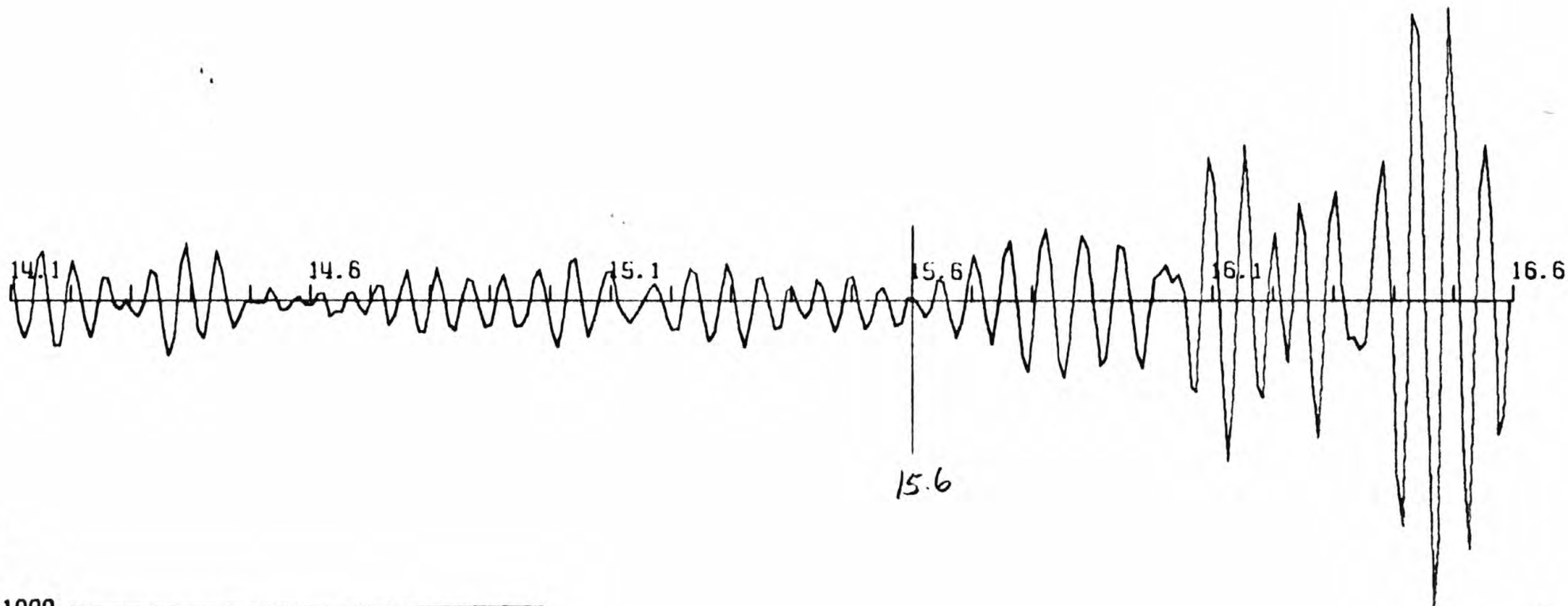
ARABIAN PROFILE 15.20 BP

SHOT POINT 4

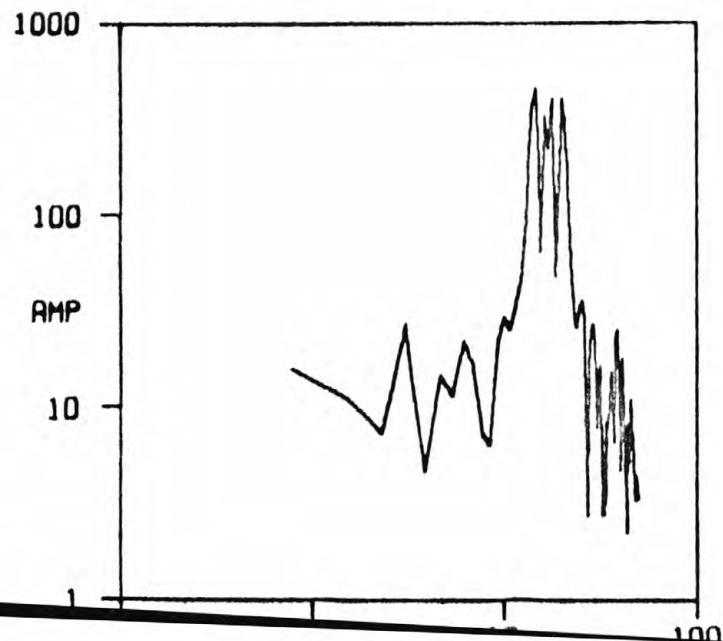
RECORDER LOCATION 583

DISTANCE FROM SHOT (KM) = -89.950

TSCALE (CM/SEC) = 10.0



571



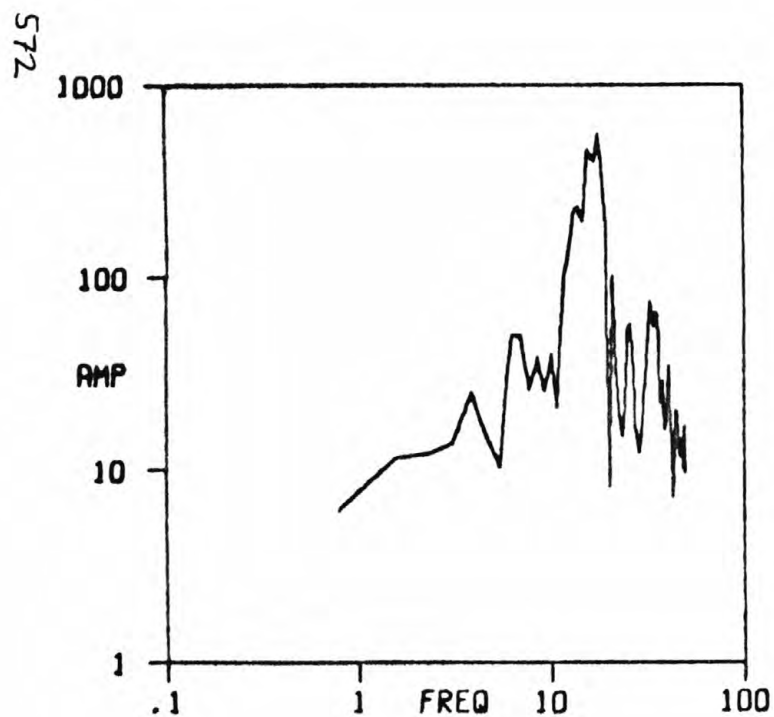
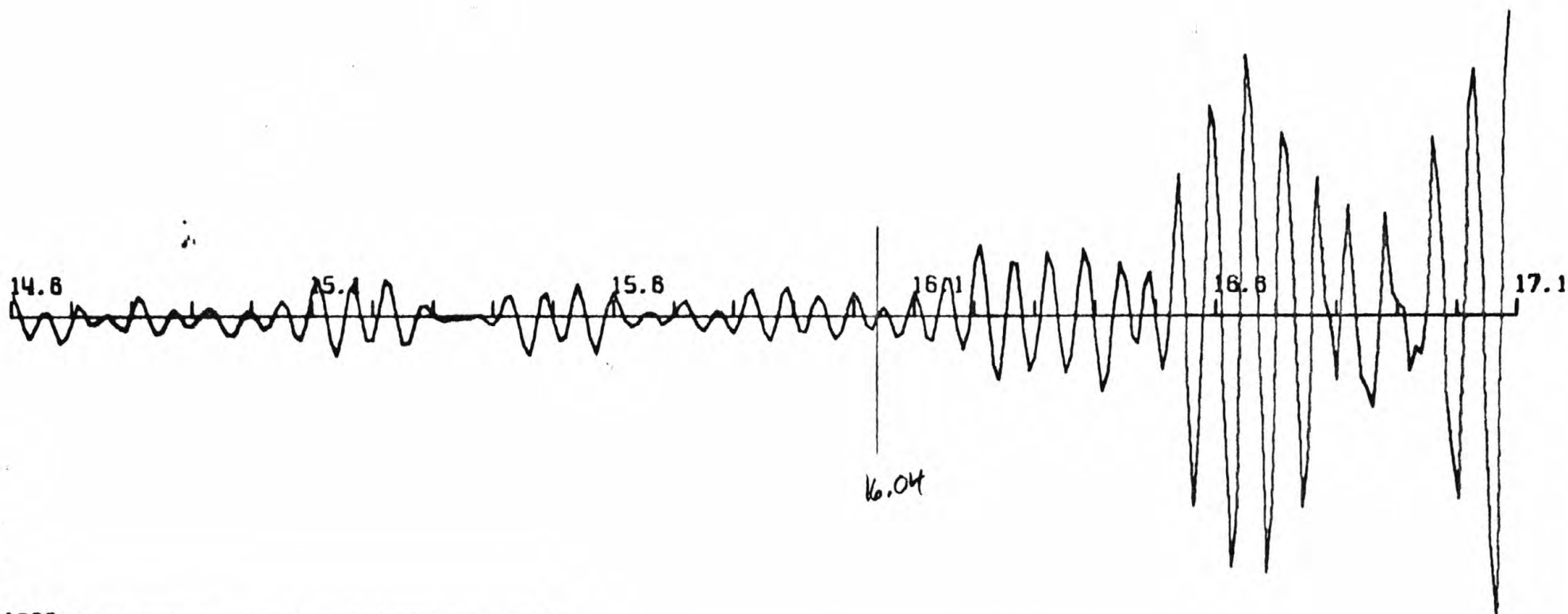
ARABIAN PROFILE 15,20 BP

SHOT POINT 4

RECORDER LOCATION 566

DISTANCE FROM SHOT (KM) = -96.455

TSCALE (CM/SEC) = 10.0



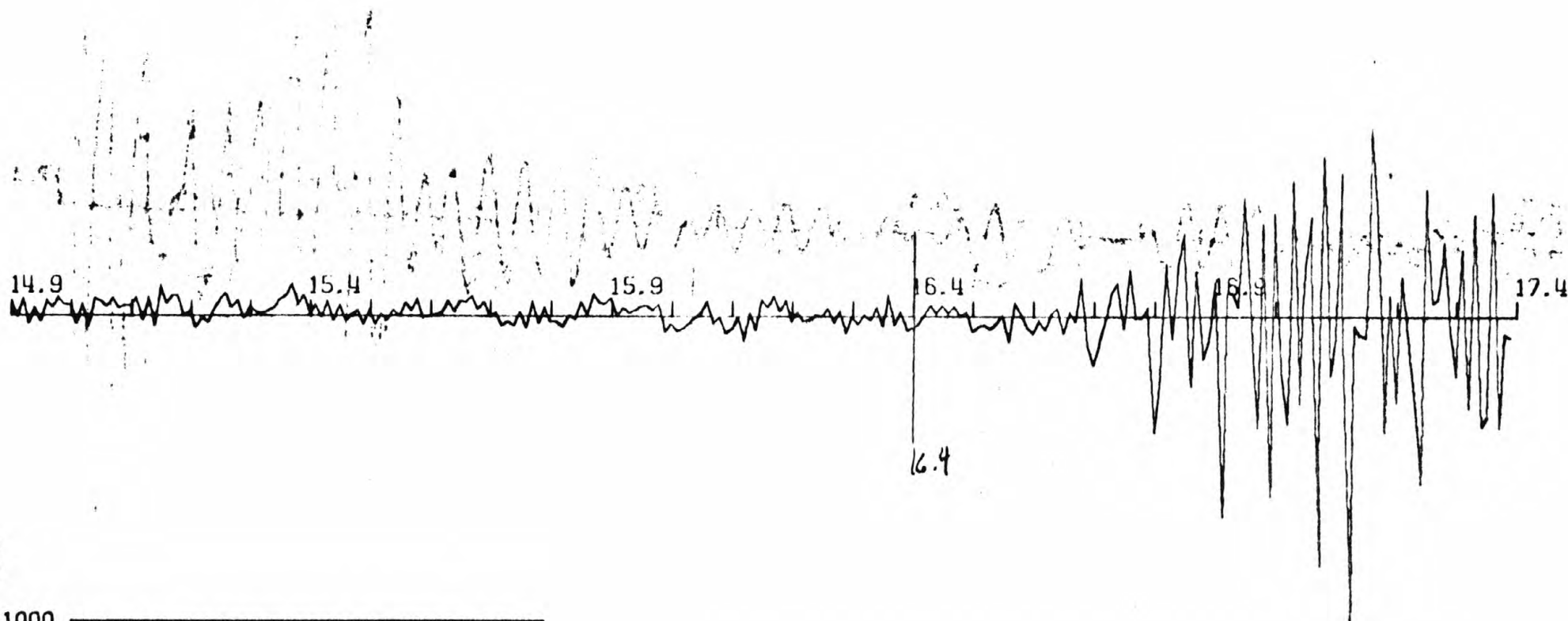
ARABIAN PROFILE 15.20 BP

SHOT POINT 4

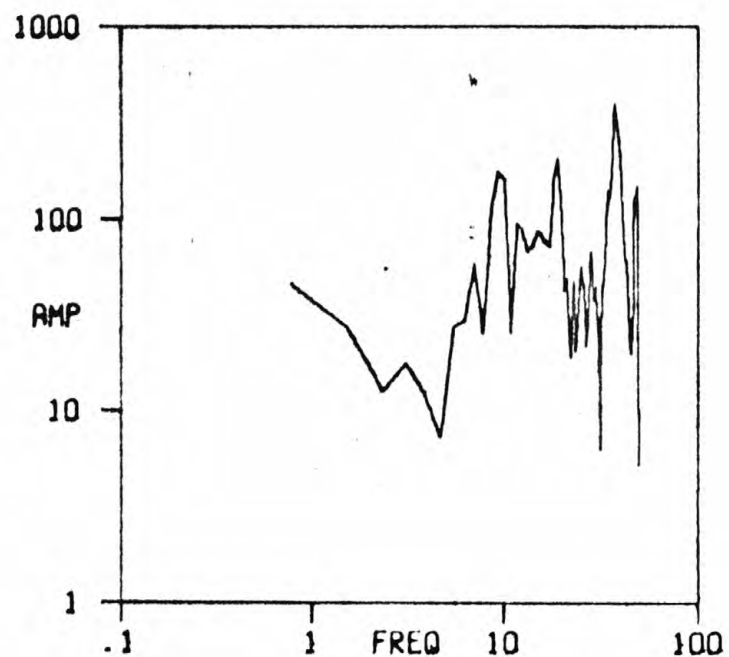
RECORDER LOCATION 567

DISTANCE FROM SHOT (KM) = -99.143

TSCALE (CM/SEC) = 10.0



573



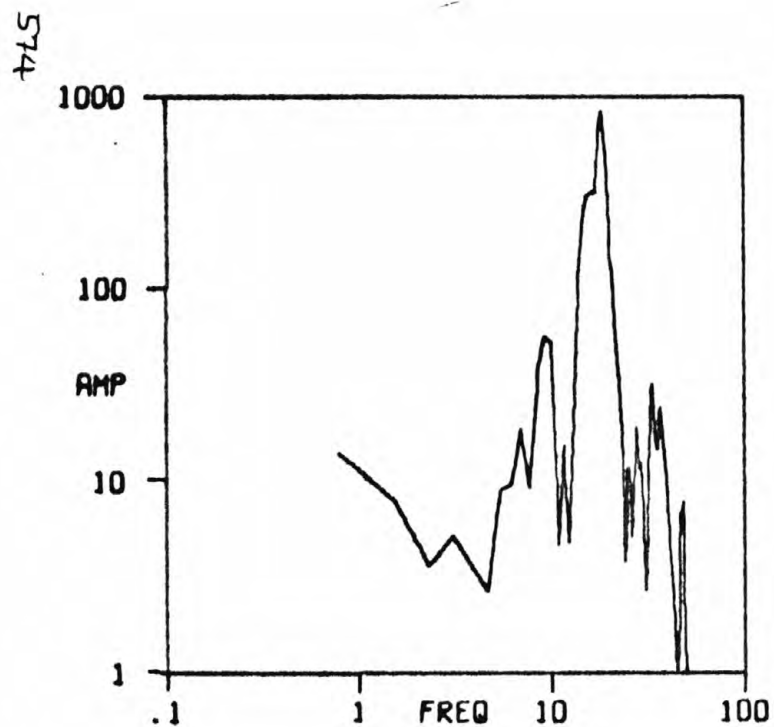
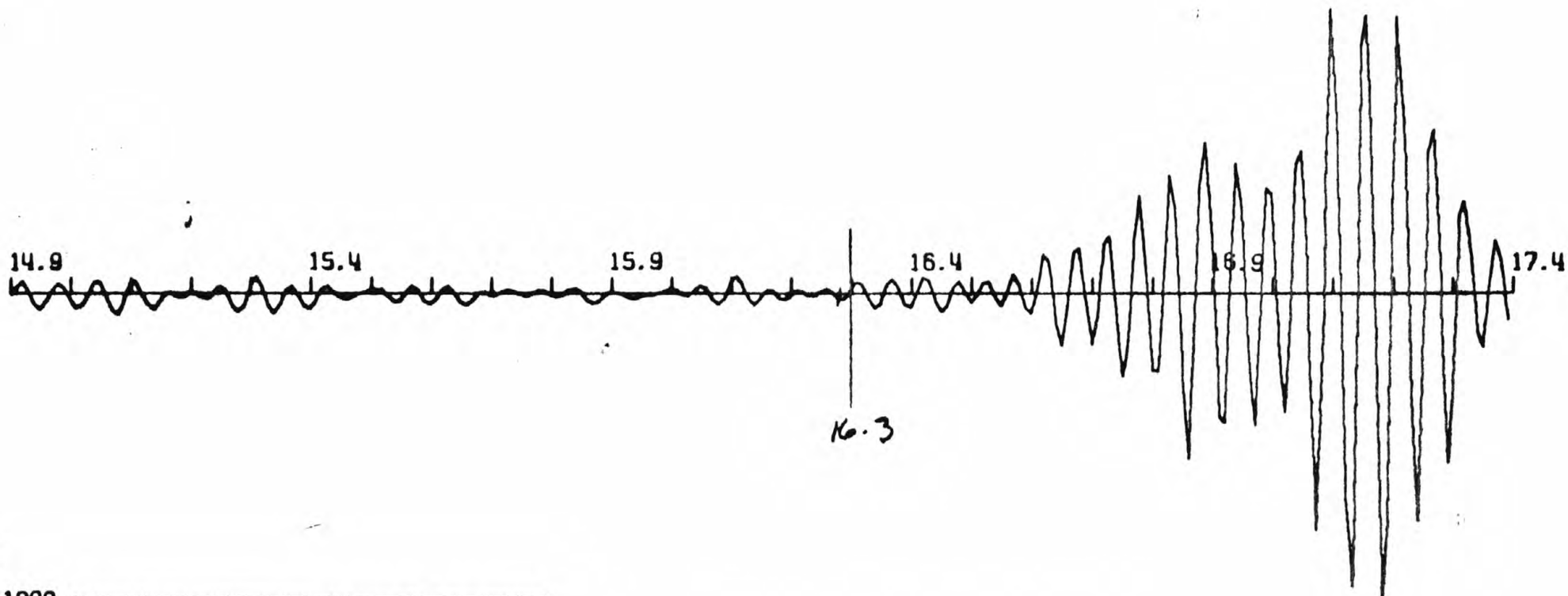
SAUDI ARABIAN REFRACTION PROFILE 35H. D20

SHOT POINT. 4

RECORDER LOCATION 568

DISTANCE FROM SHOT (KM) = -101.350

TSCALE (CM/SEC) = 10.0



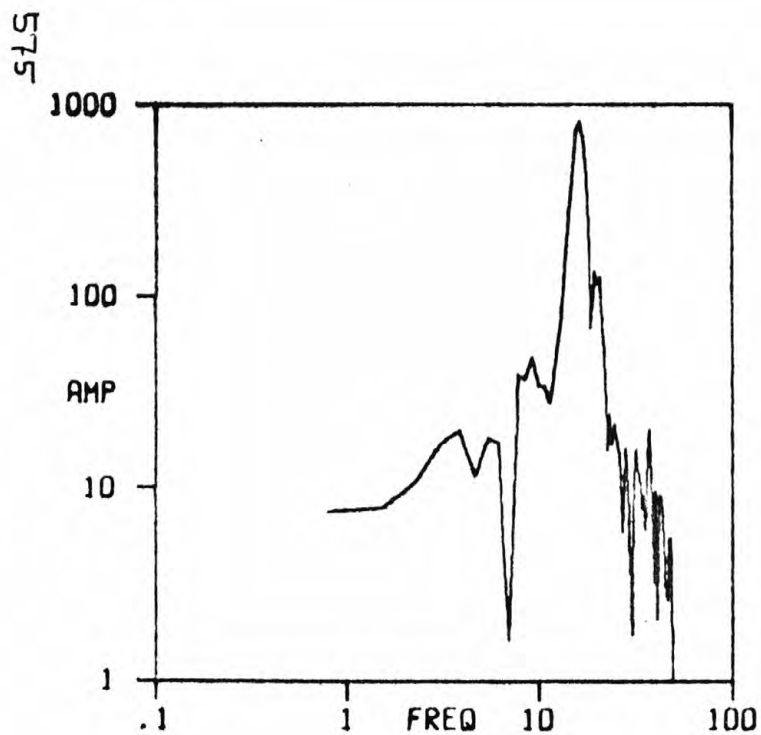
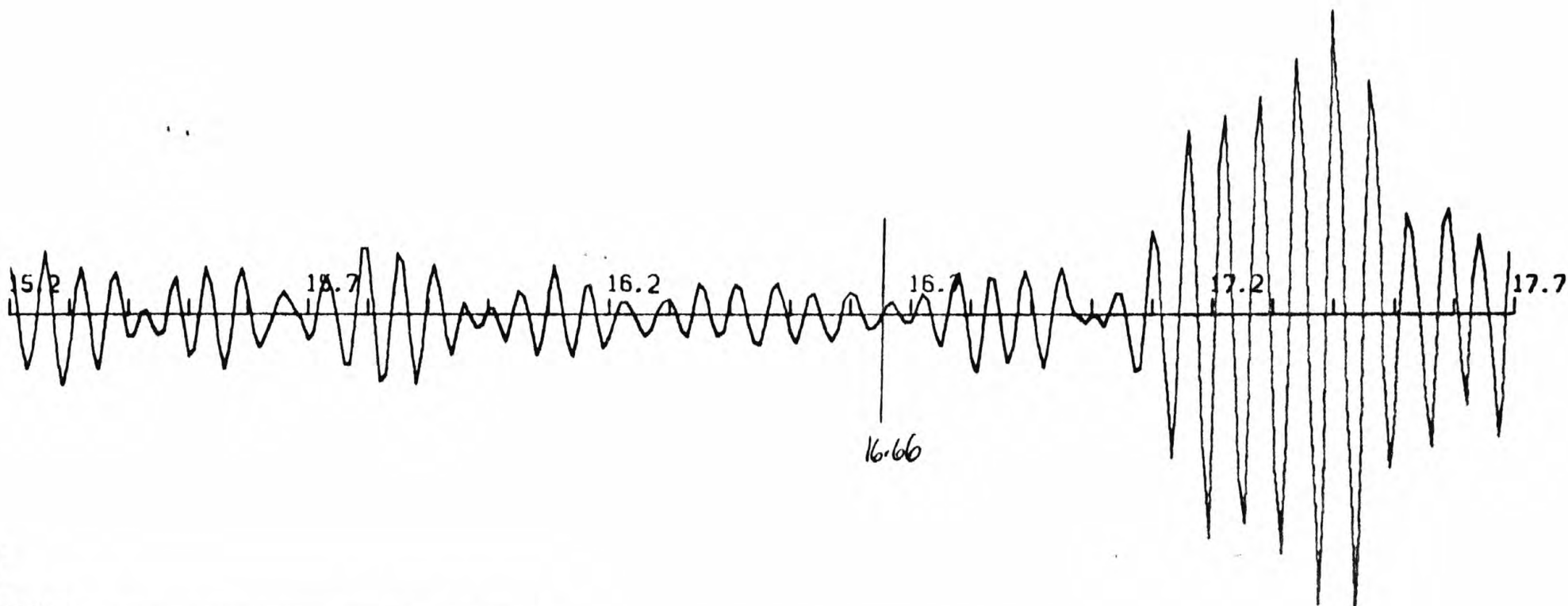
ARABIAN PROFILE 15.20 BP

SHOT POINT 4

RECORDER LOCATION 568

DISTANCE FROM SHOT (KM) = -101.350

TSCALE (CM/SEC) = 10.0



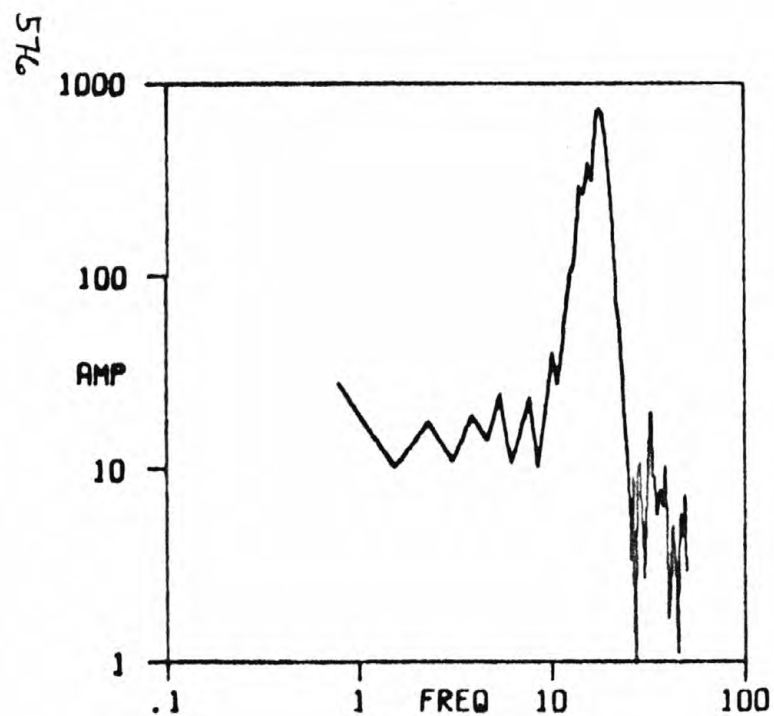
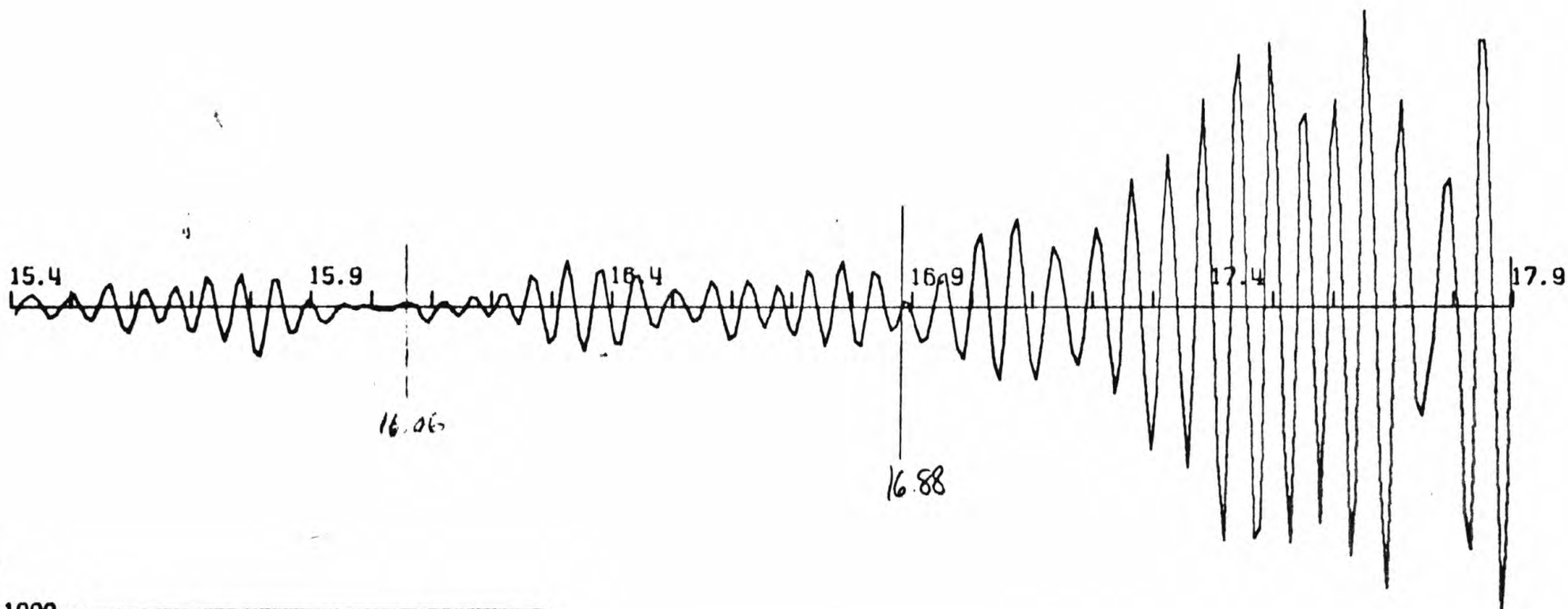
ARABIAN PROFILE 15,20 BP

SHOT POINT 4

RECORDER LOCATION 569

DISTANCE FROM SHOT (KM) = -102.976

TSCALE (CM/SEC) = 10.0



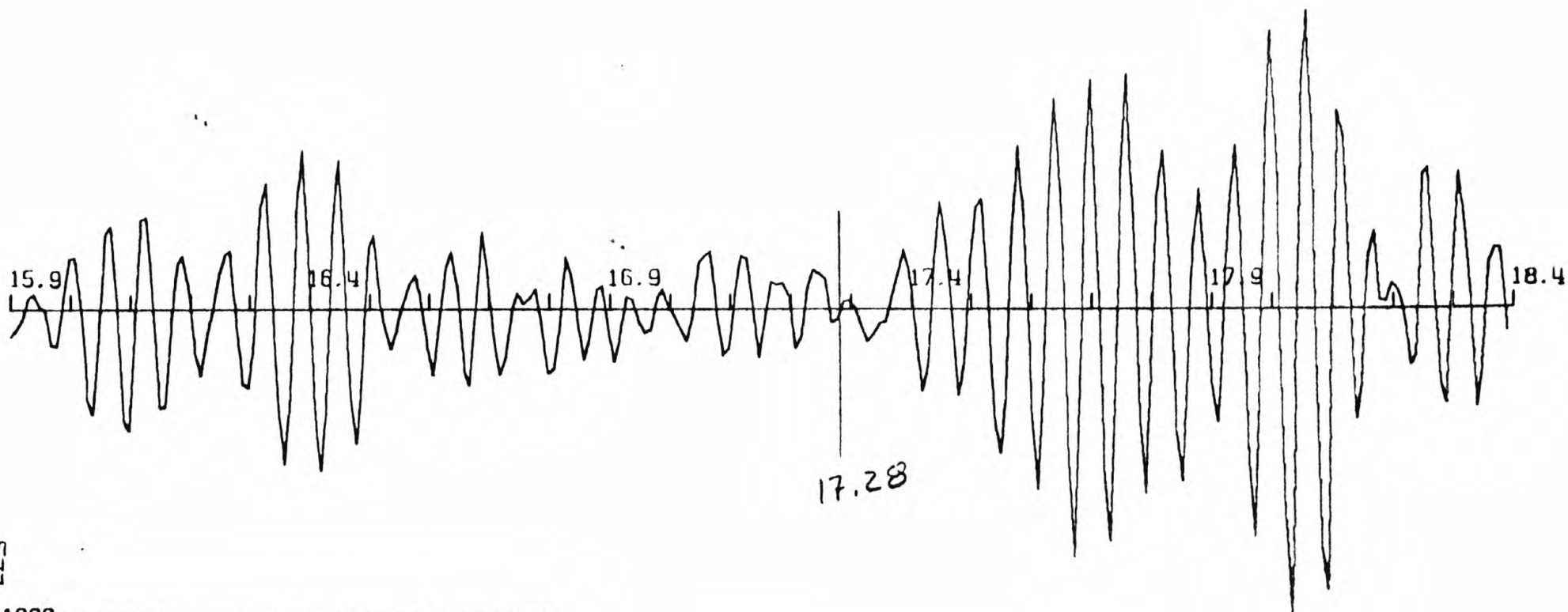
ARABIAN PROFILE 15.20 BP

SHOT POINT 4

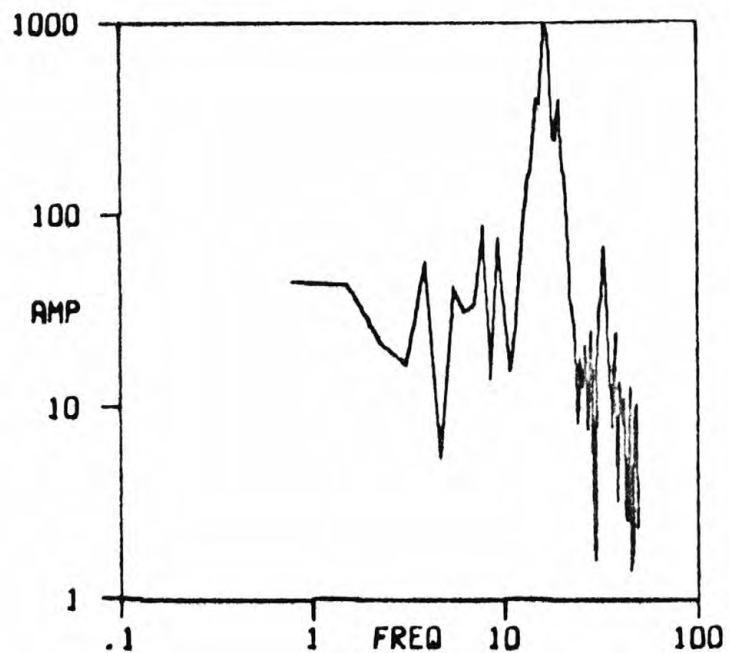
RECORDER LOCATION 570

DISTANCE FROM SHOT (KM) = -104.330

TSCALE (CM/SEC) = 10.0



577



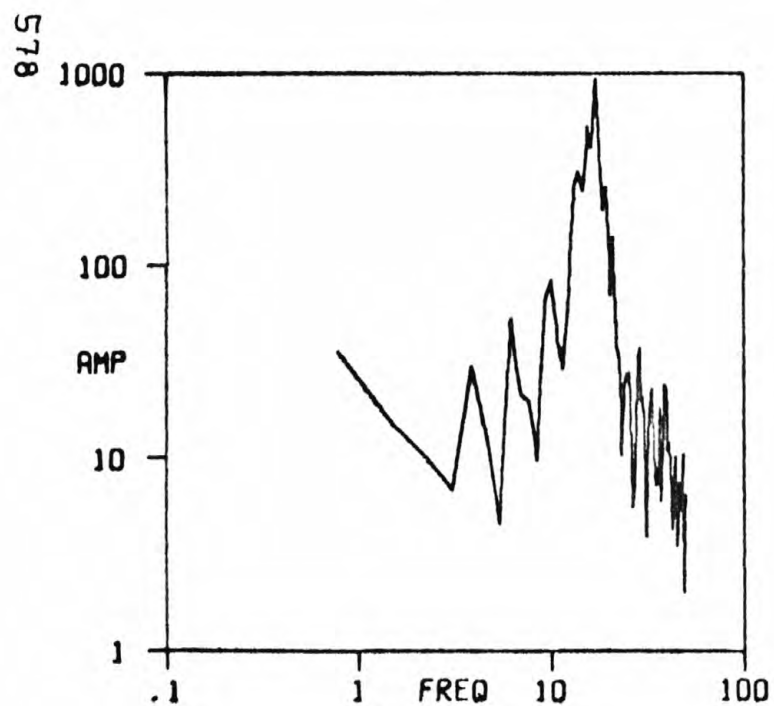
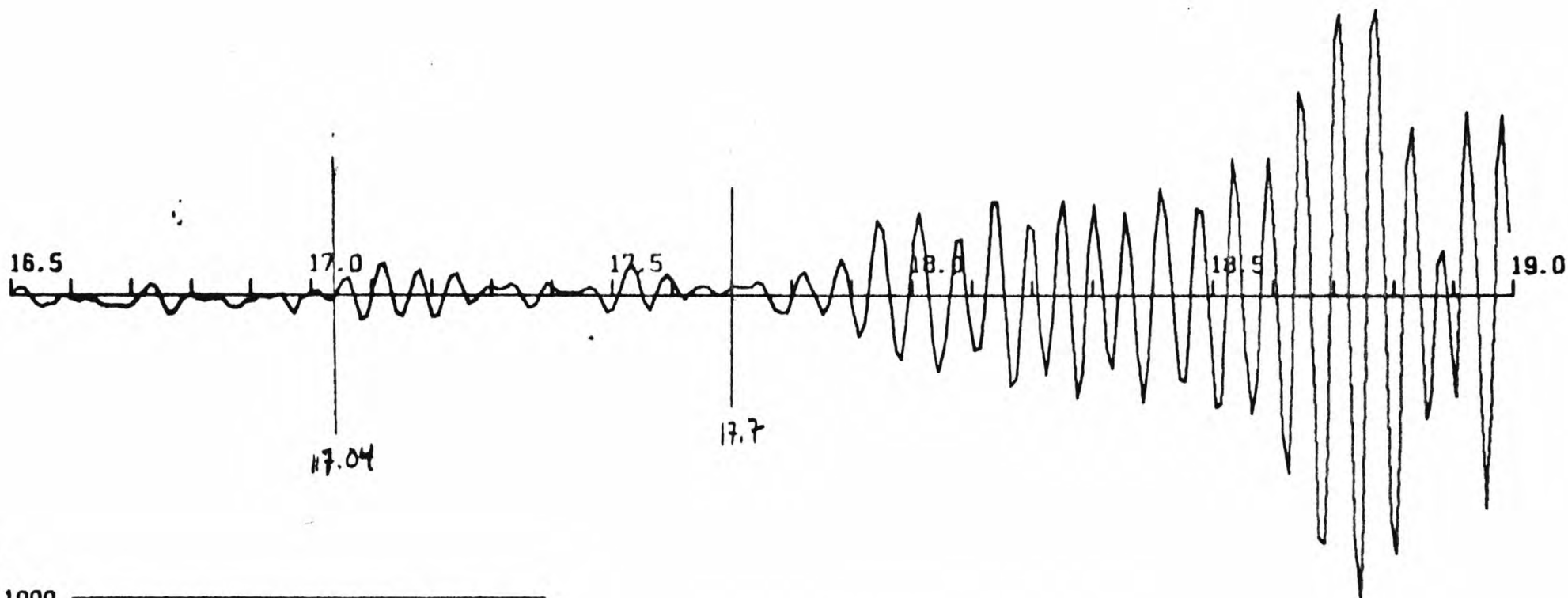
ARABIAN PROFILE 15.20 BP

SHOT POINT 4

RECORDER LOCATION 572

DISTANCE FROM SHOT (KM) = -107.225

TSCALE (CM/SEC) = 10.0



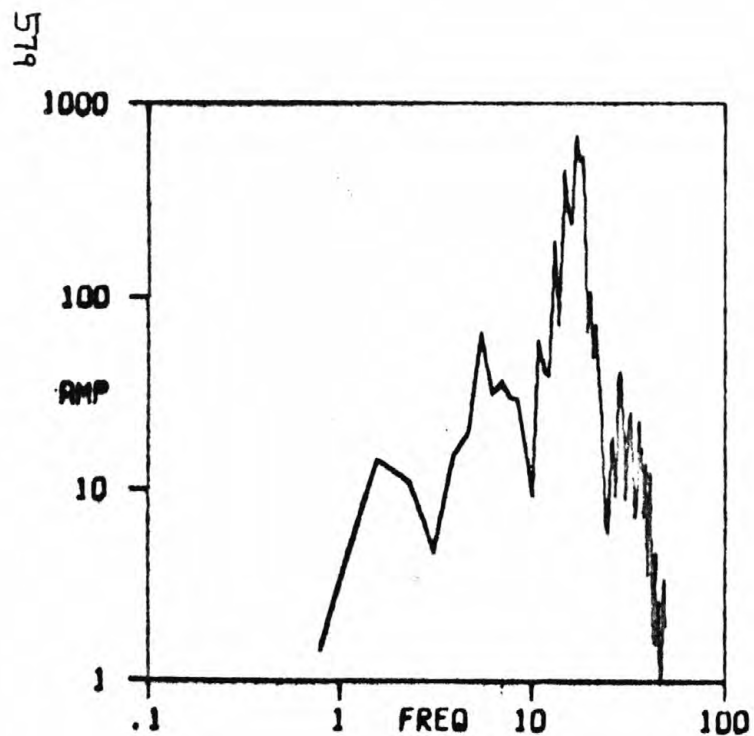
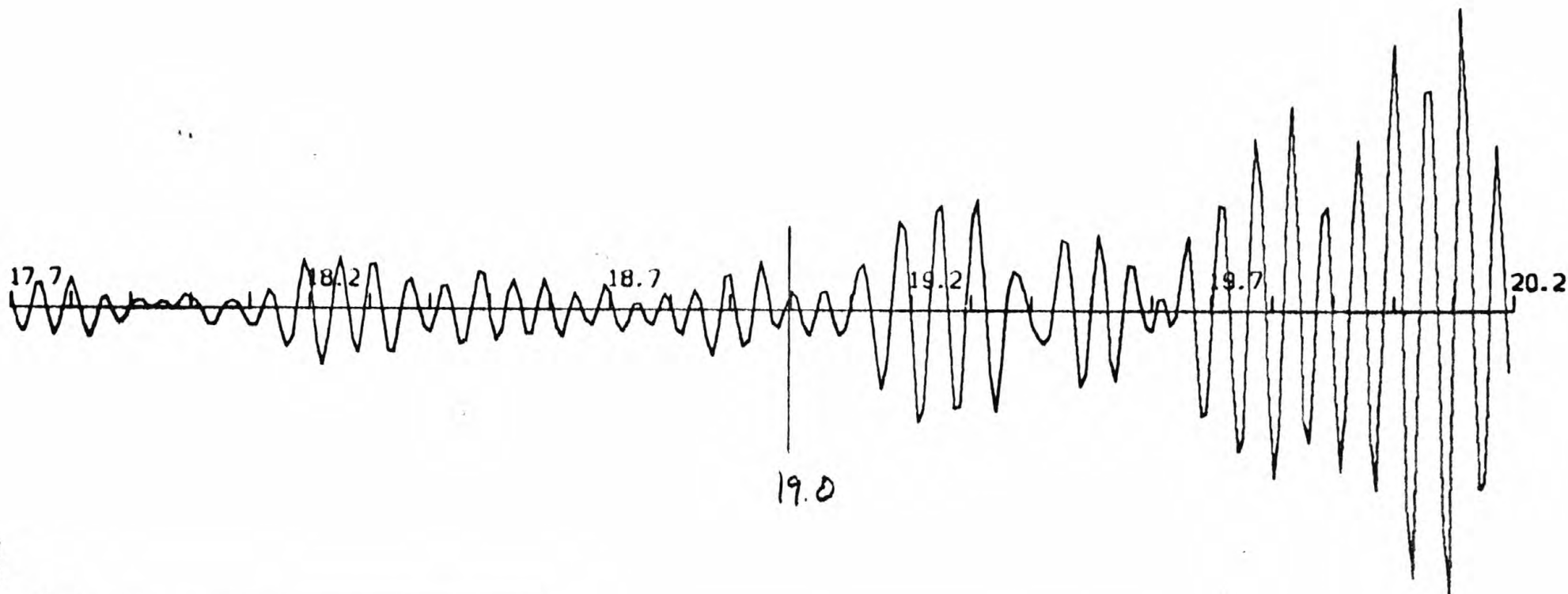
ARABIAN PROFILE 15.20 BP

SHOT POINT 4

RECORDER LOCATION 573

DISTANCE FROM SHOT (KM) = -110.435

TSCALE (CM/SEC) = 10.0



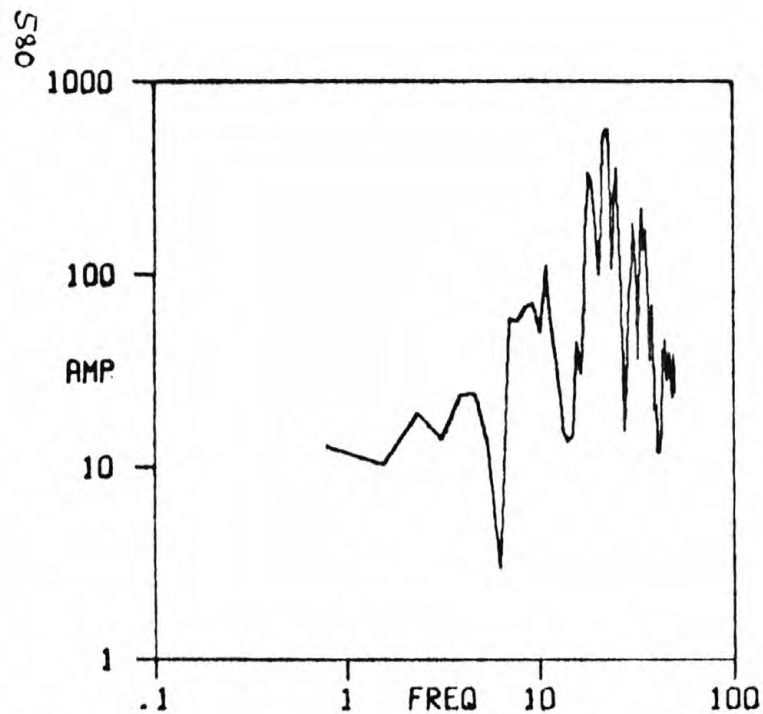
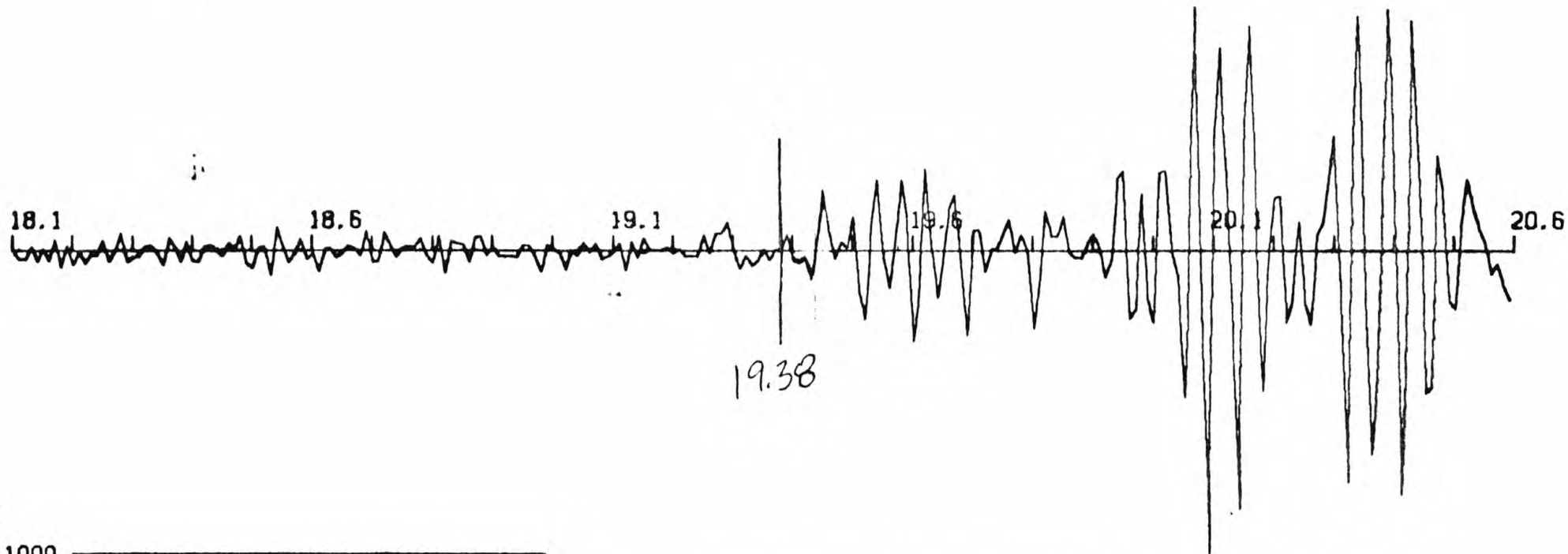
ARABIAN PROFILE 15.20 BP

SHOT POINT 4

RECORDER LOCATION 576

DISTANCE FROM SHOT (KM) = -118.102

TSCALE (CM/SEC) = 10.0



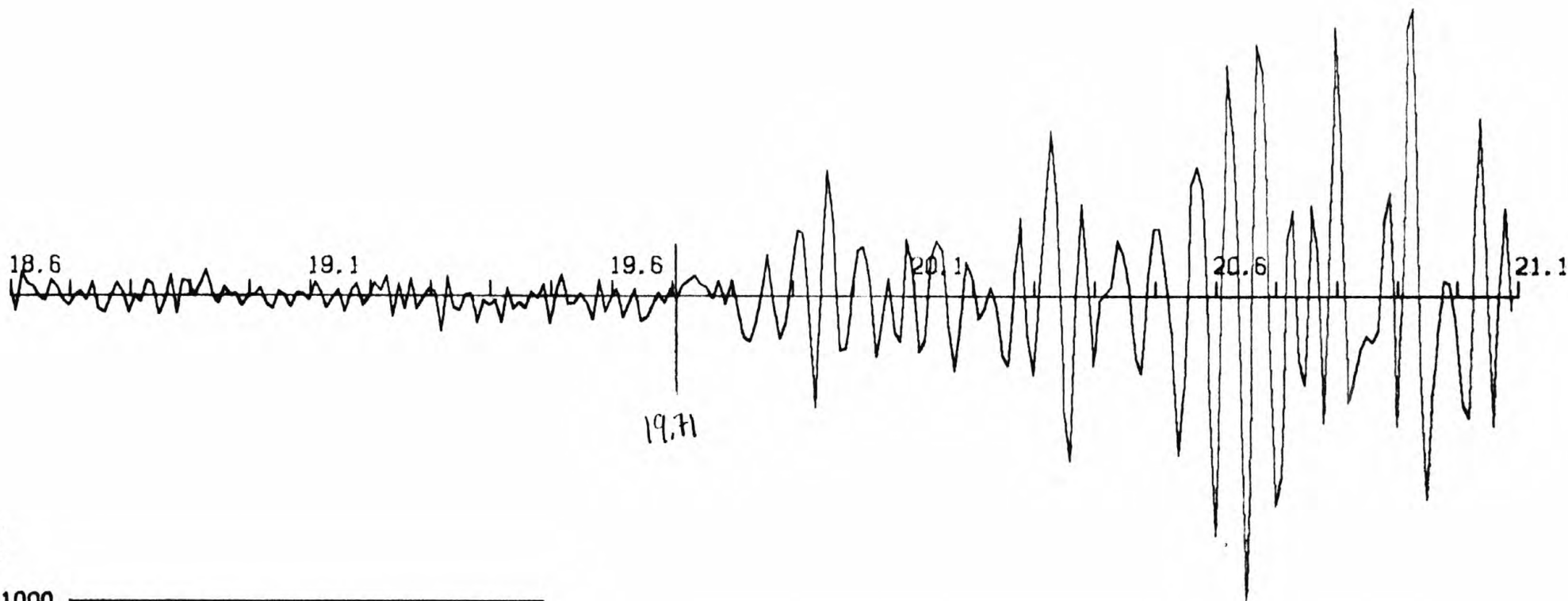
SAUDI ARABIAN REFRACTION PROFILE 15H DB

SHOT POINT 4

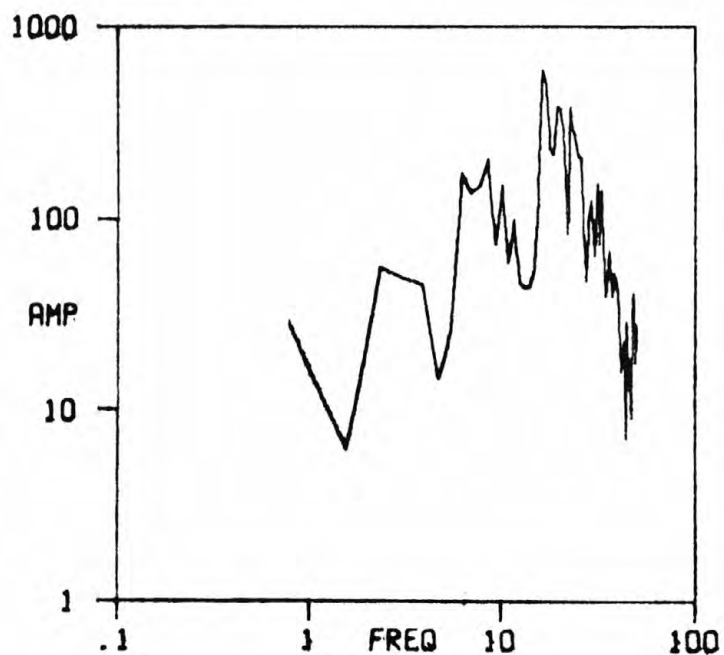
RECORDER LOCATION 578

DISTANCE FROM SHOT (KM) = -120.087

TSCALE (CM/SEC) = 10.0



185



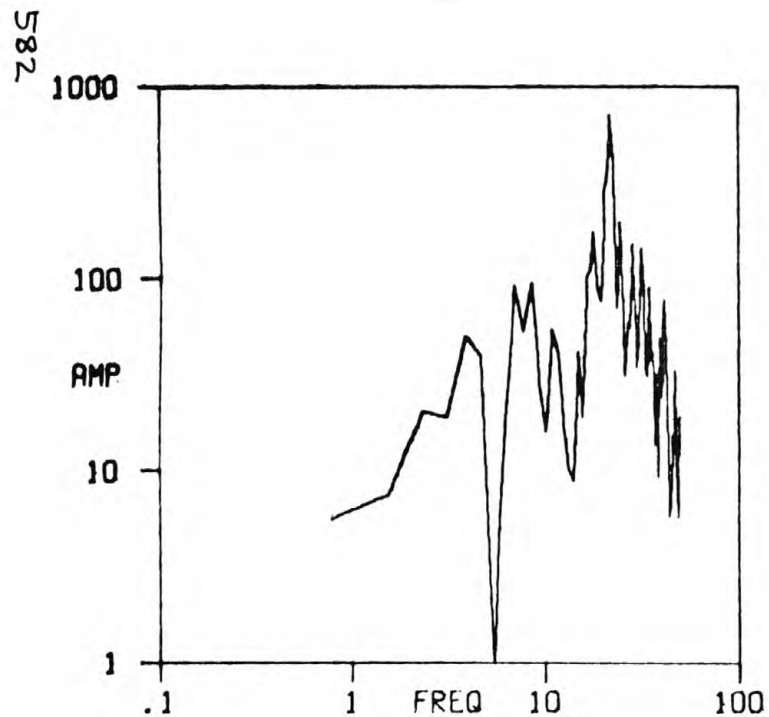
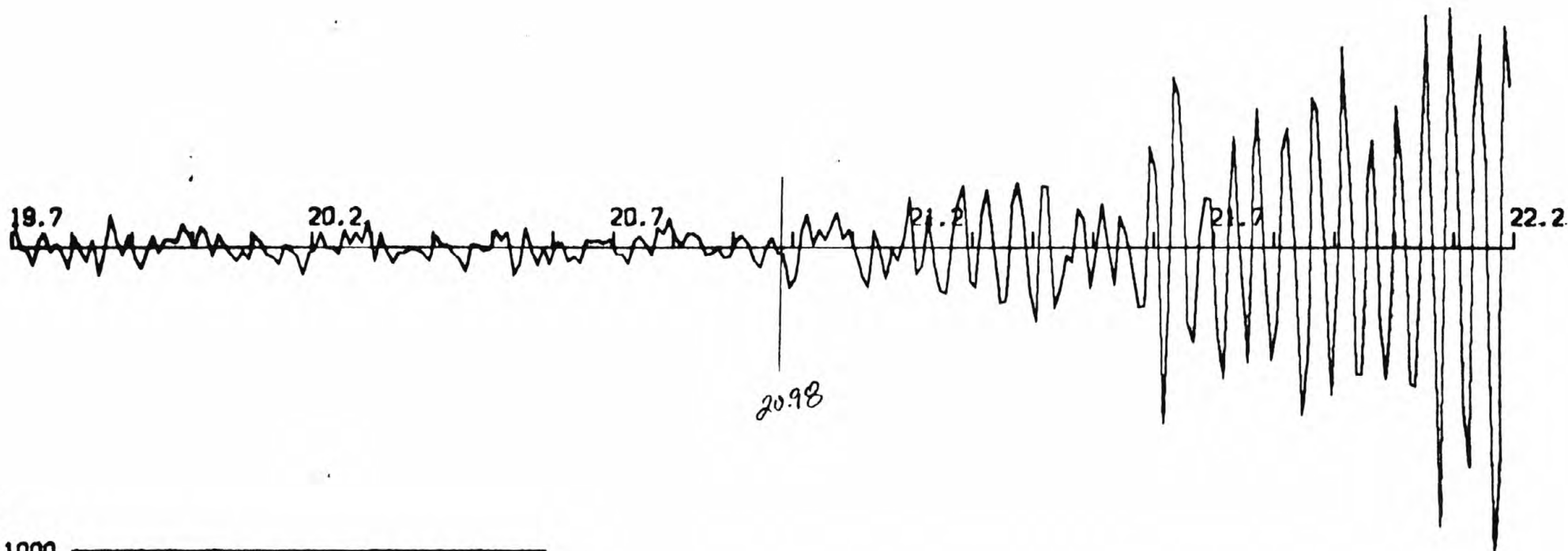
SAUDI ARABIAN REFRACTION PROFILE 15H. DB

SHOT POINT. 4

RECORDER LOCATION 580

DISTANCE FROM SHOT. (KM) = -123.364

TSCALE (CM/SEC) = 10.0



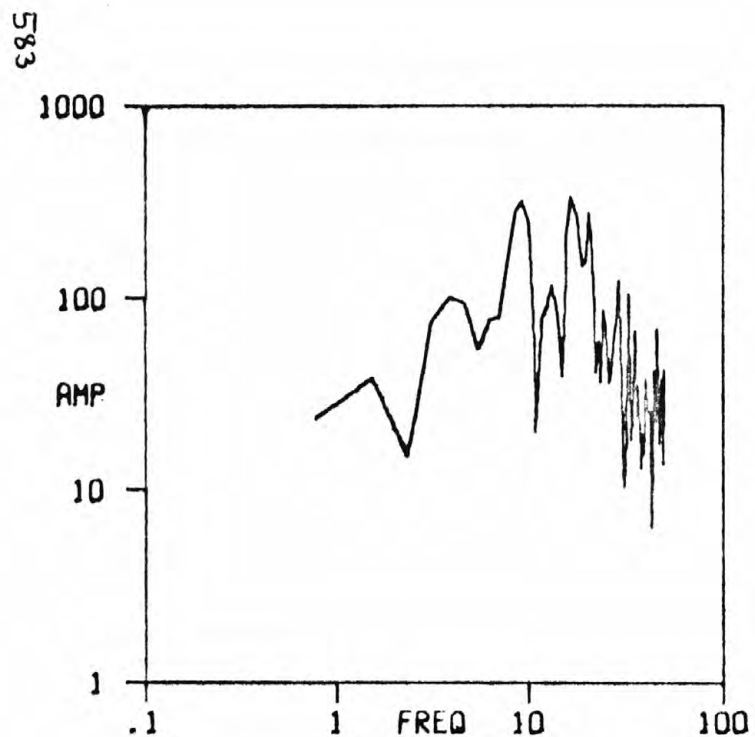
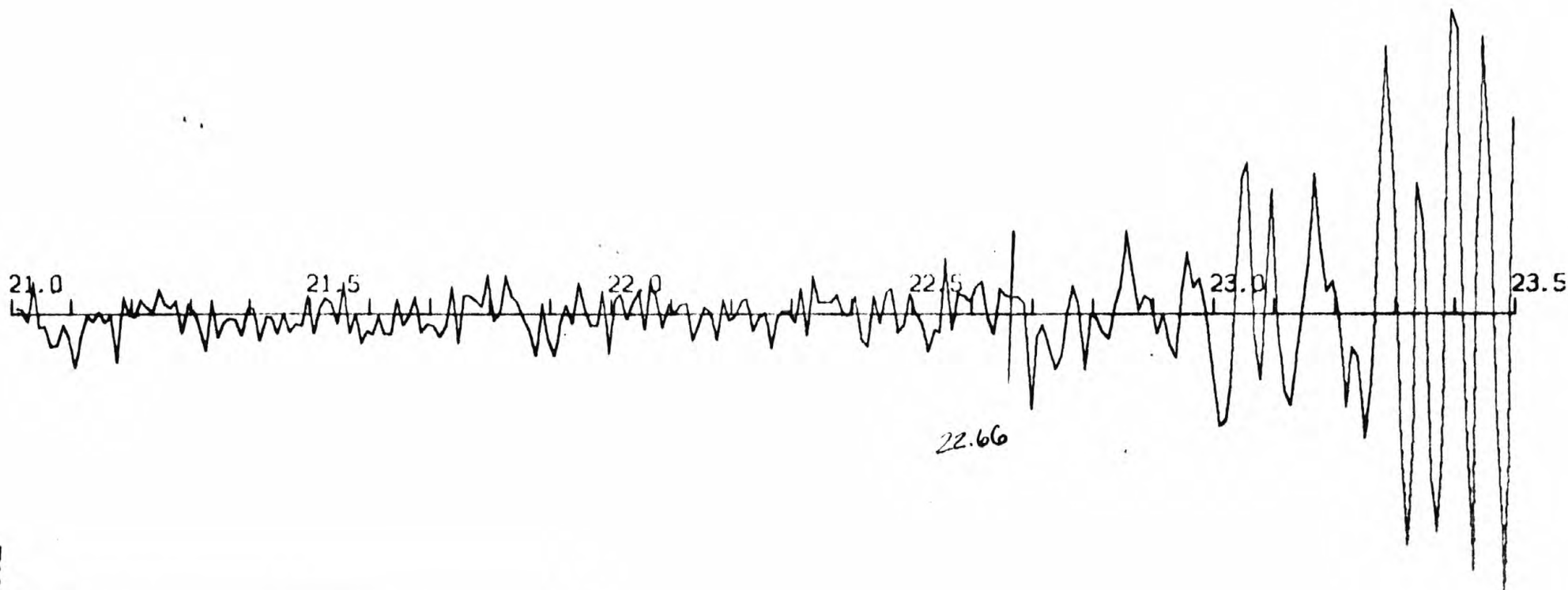
SAUDI ARABIAN REFRACTION PROFILE 15H DB

SHOT POINT 4

RECORDER LOCATION 582

DISTANCE FROM SHOT (KM) = -130.006

TSCALE (CM/SEC) = 10.0



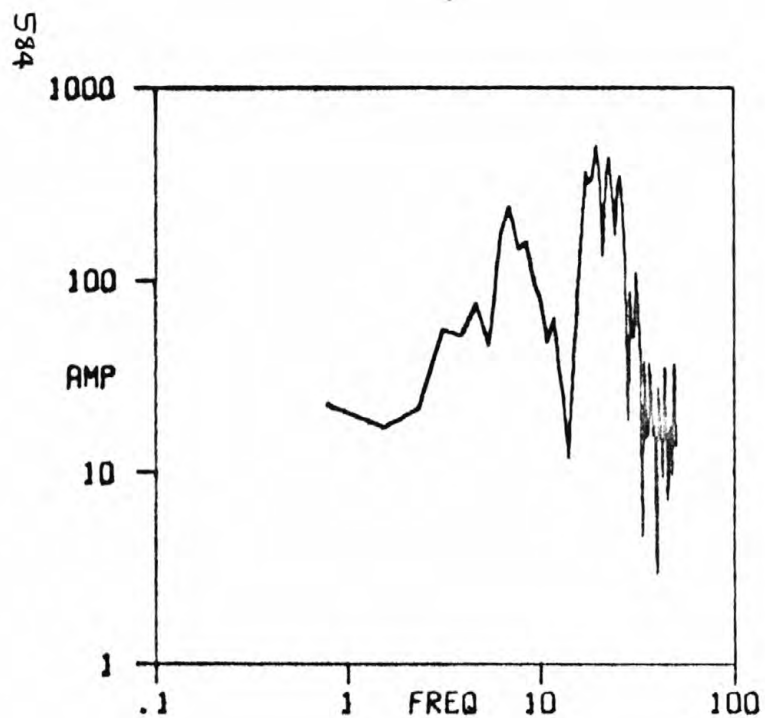
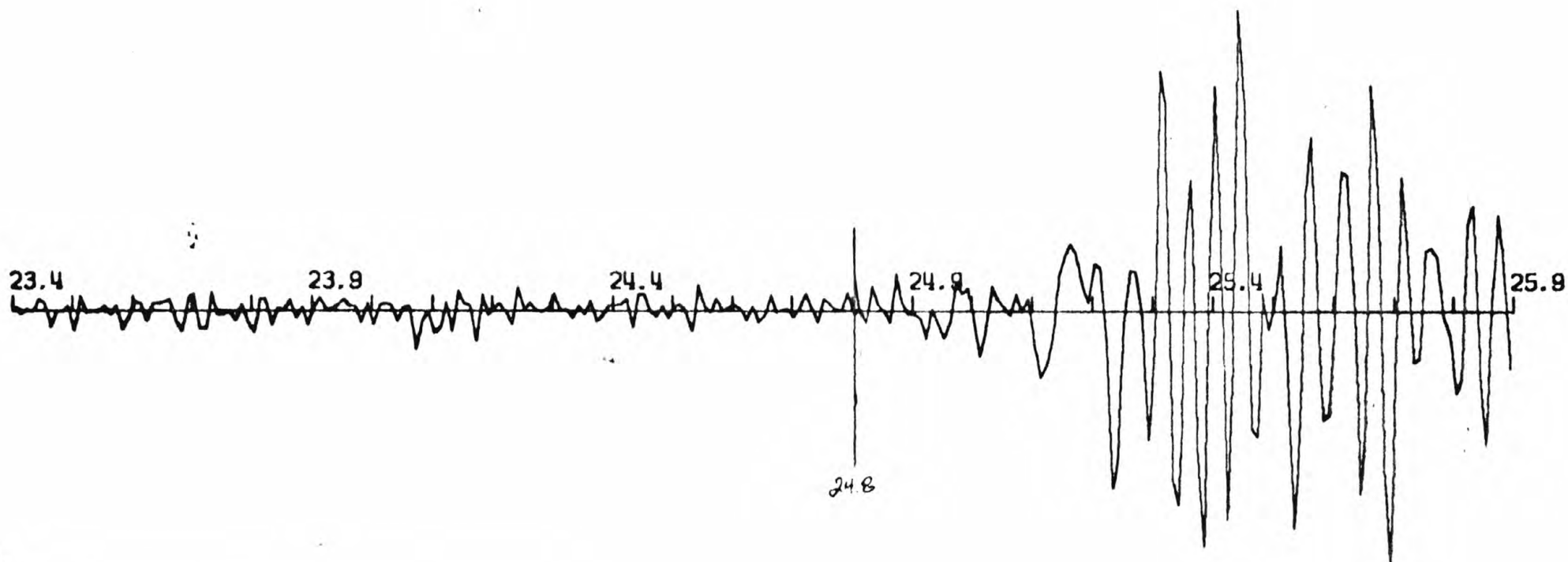
SAUDI ARABIAN REFRACTION PROFILE 15H. DB

SHOT POINT 4

RECORDER LOCATION 585

DISTANCE FROM SHOT (KM) = -137.636

TSCALE (CM/SEC) = 10.0



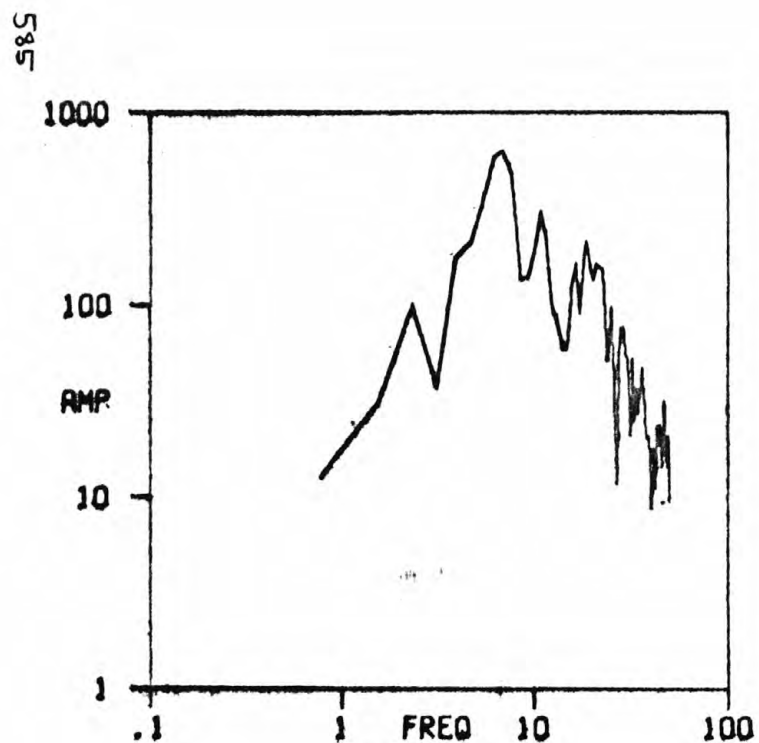
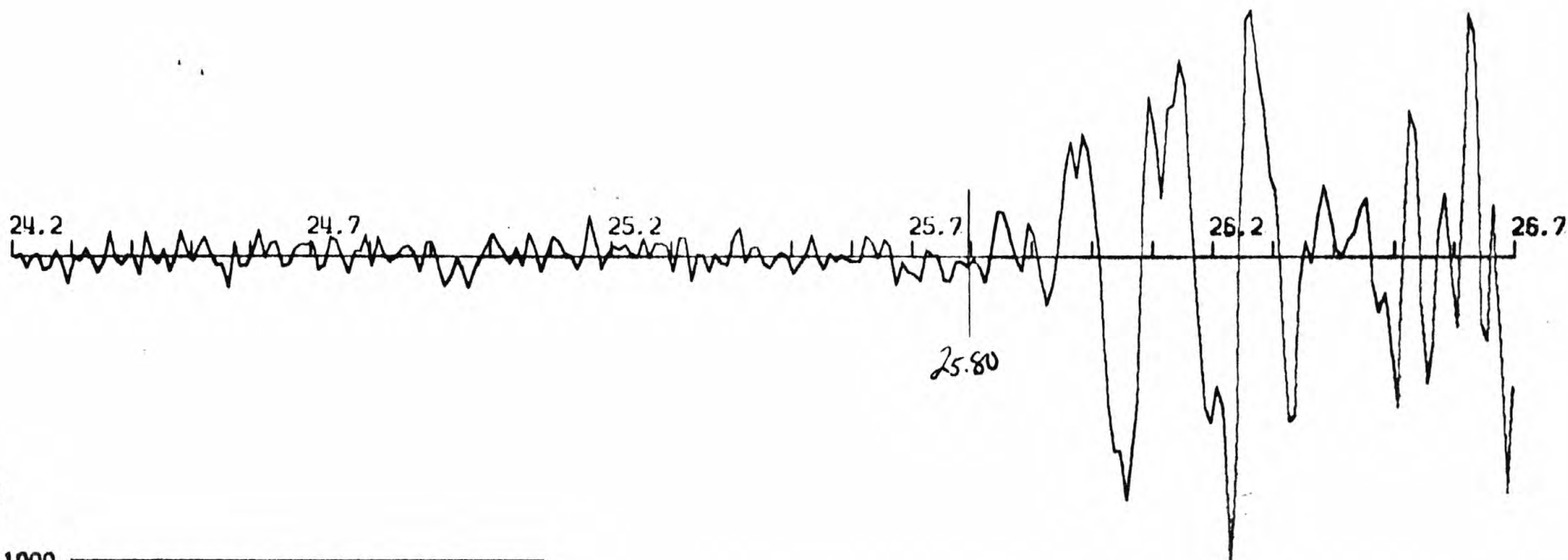
SAUDI ARABIAN REFRACTION PROFILE 15H. DB

SHOT POINT 4

RECORDER LOCATION 592

DISTANCE FROM SHOT (KM) = -151.898

TSCALE (CM/SEC) = 10.0



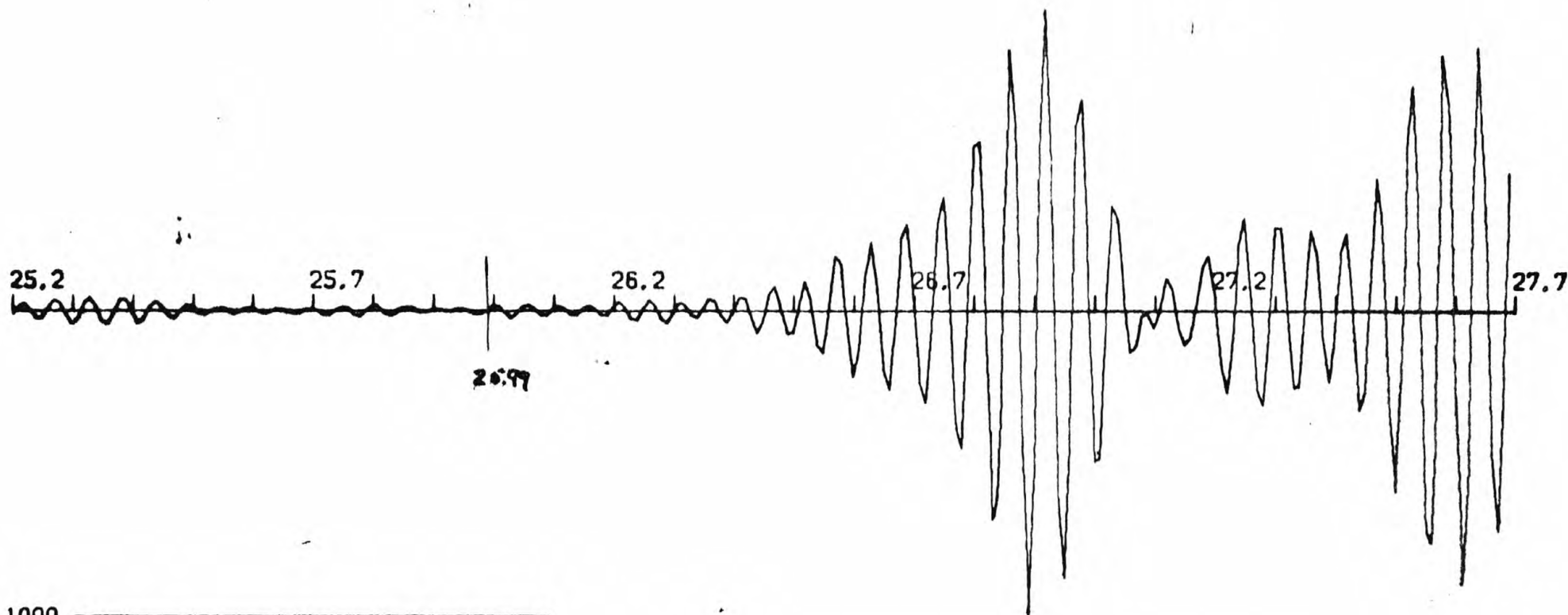
SAUDI ARABIAN REFRACTION PROFILE 15H. DB

SHOT. POINT. 4

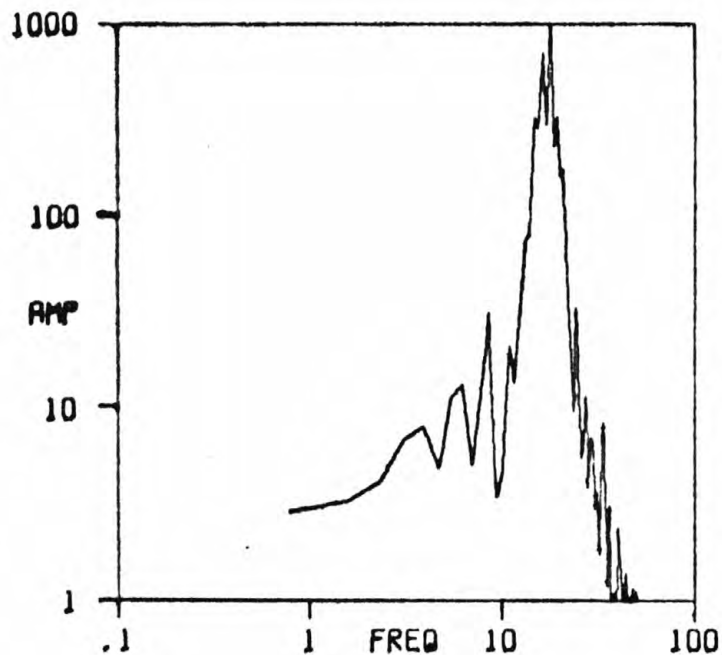
RECORDER LOCATION 595

DISTANCE FROM SHOT. (KM). = -156.840

TSCALE (CM/SEC). = 10.0



586



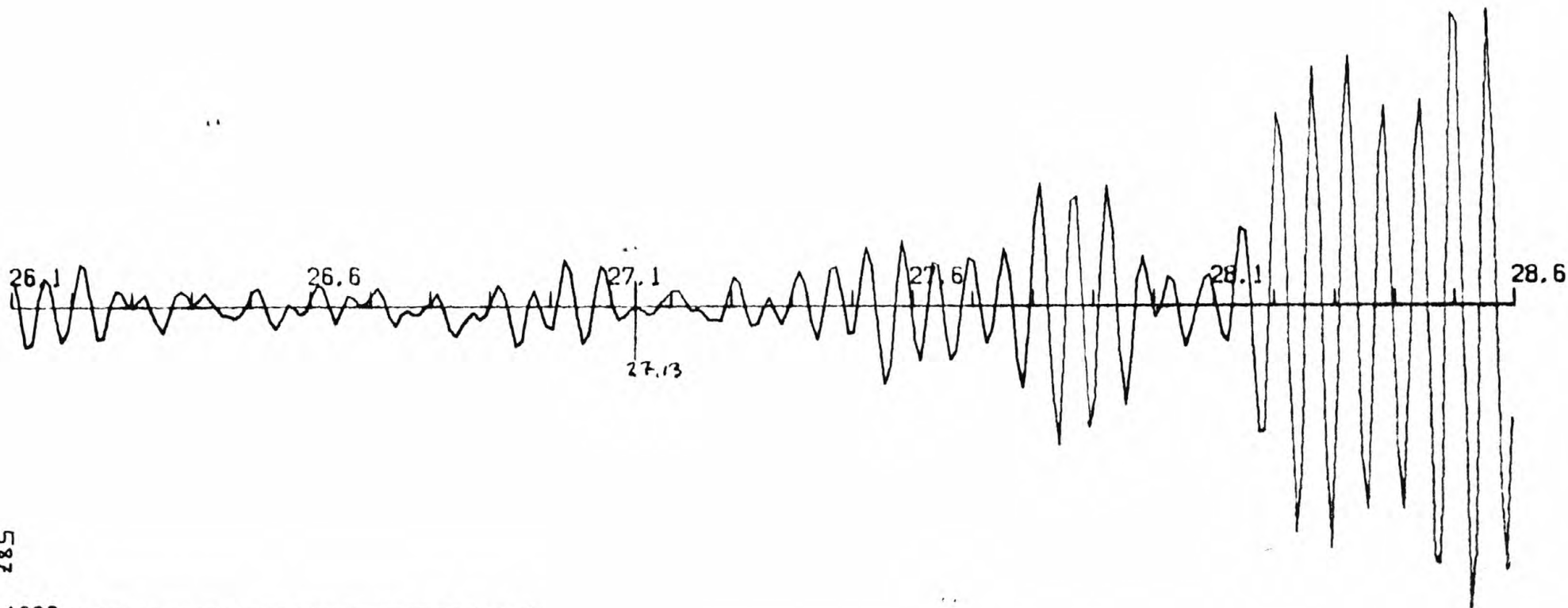
SAUDI REFRACTION PROFILE 15,20 BP

SHOT POINT 4

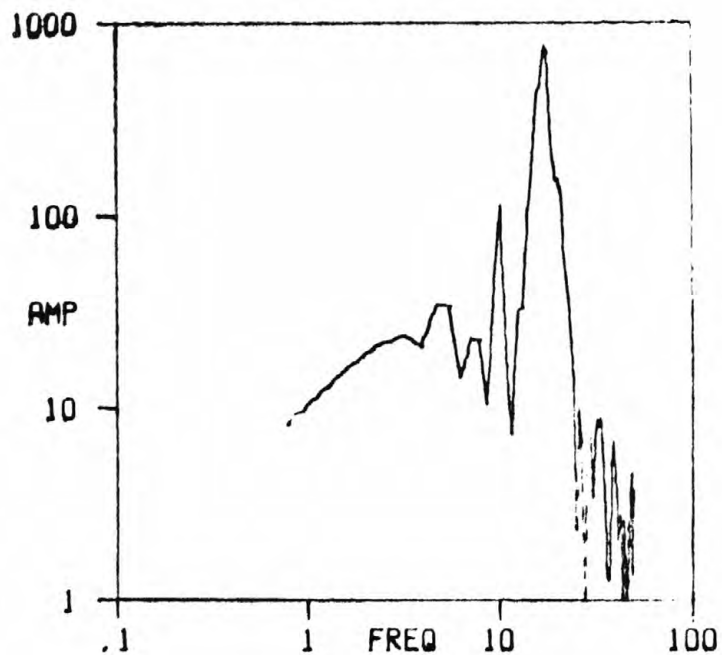
RECORDER LOCATION 599

DISTANCE FROM SHOT (KM) = -162.844

TSCALE (CM/SEC) = 10.0



587



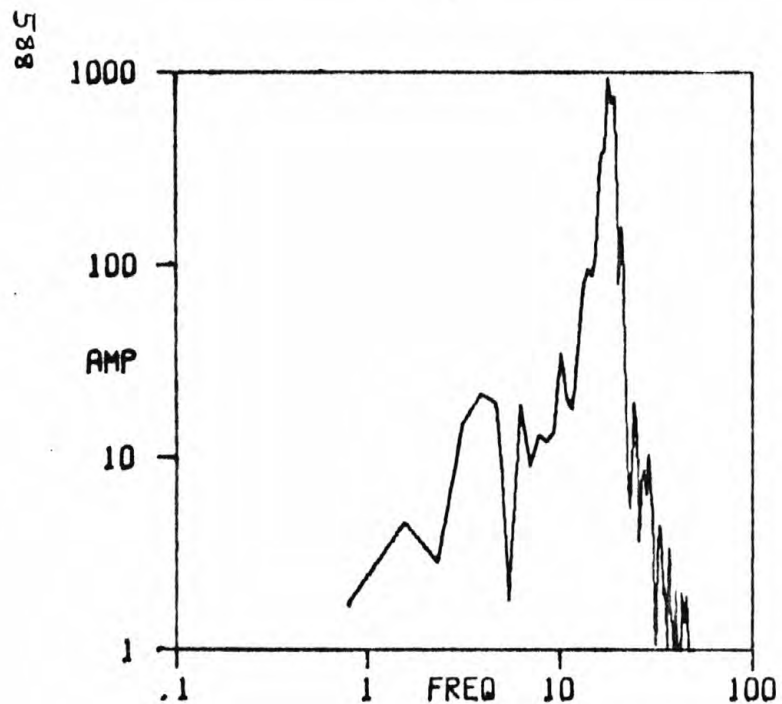
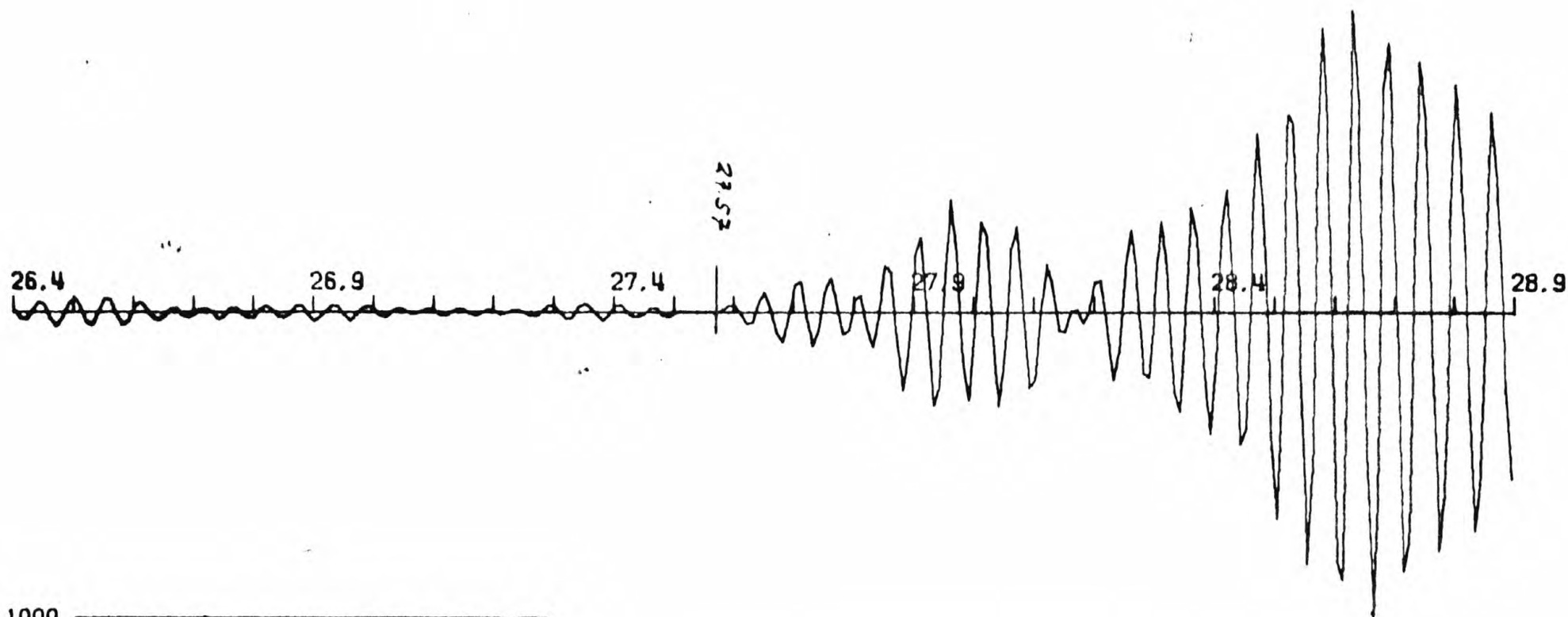
SAUDI REFRACTION PROFILE 15,20 BP

SHOT POINT 4

RECORDER LOCATION 602

DISTANCE FROM SHOT (KM) $\approx$ -168.154

TSCALE (CM/SEC) $\approx$ 10.0



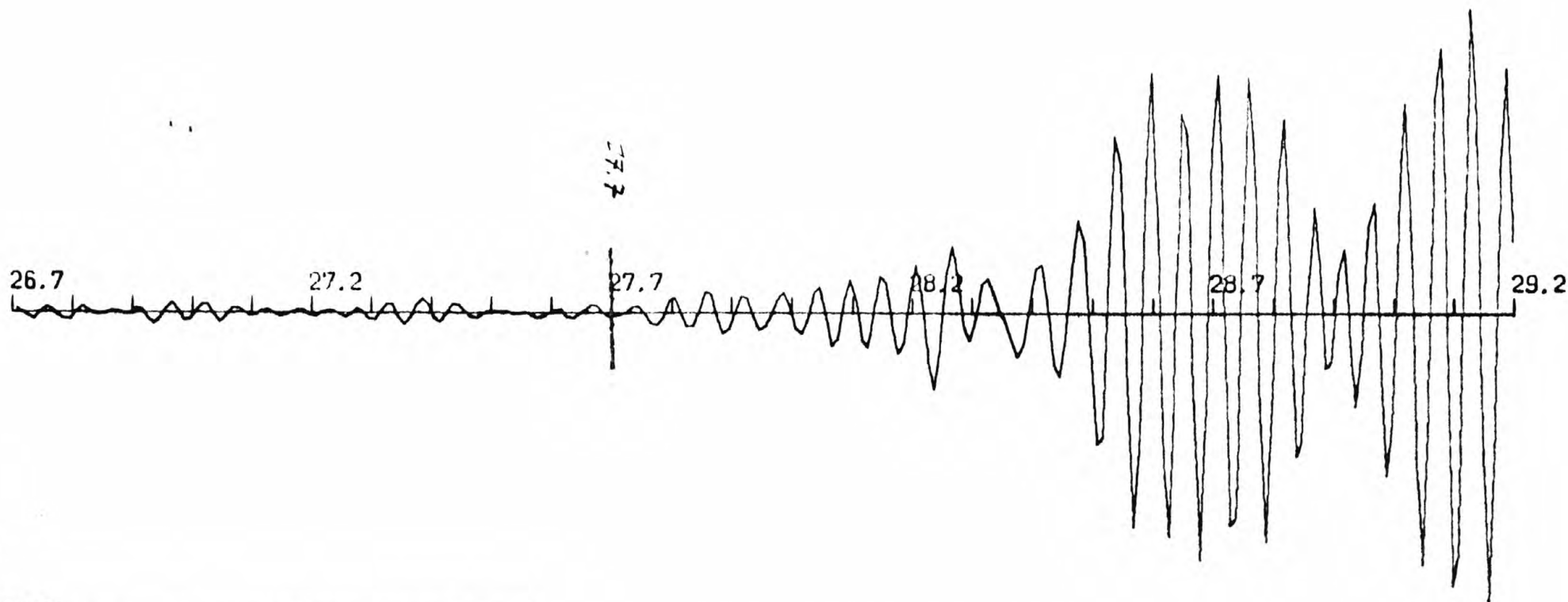
SAUDI REFRACTION PROFILE 15,20 BP

SHOT POINT 4

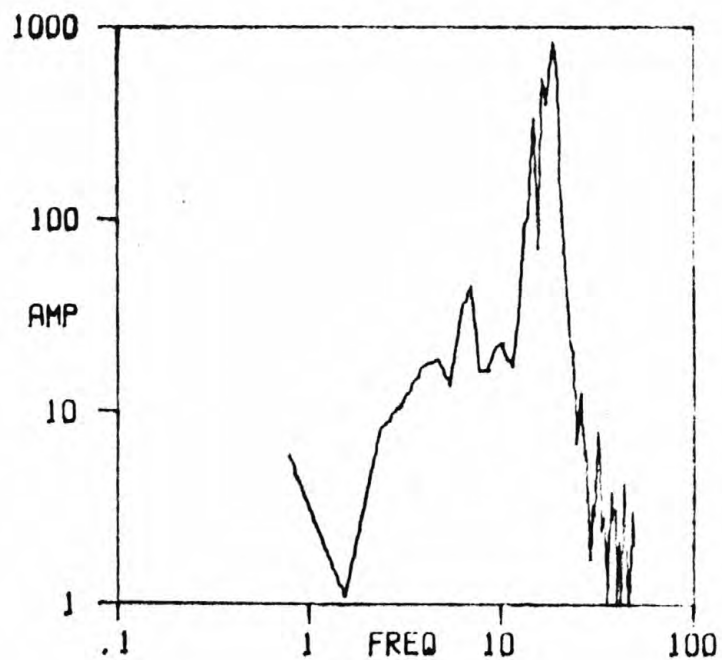
RECORDER LOCATION 604

DISTANCE FROM SHOT (KM) = -169.827

TSCALE (CM/SEC) = 10.0



589



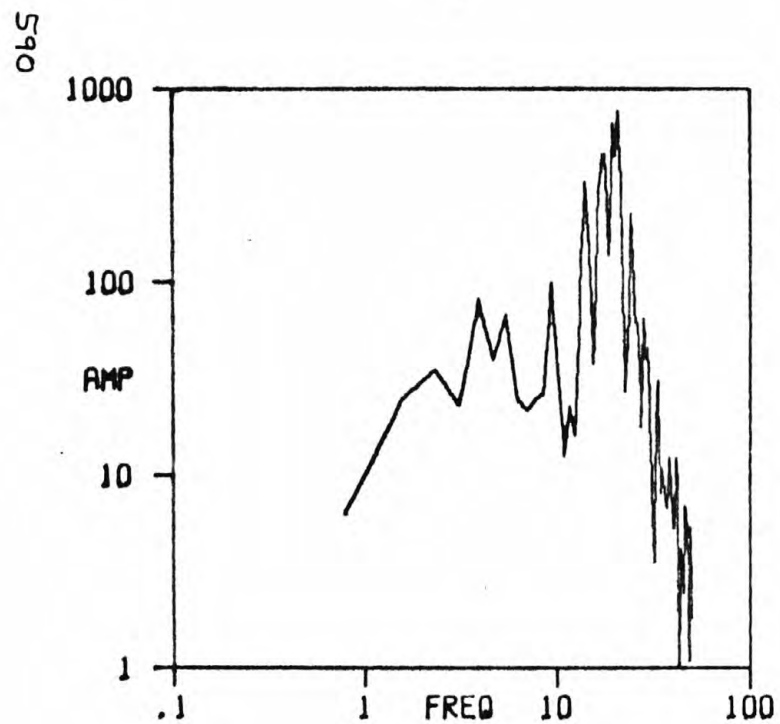
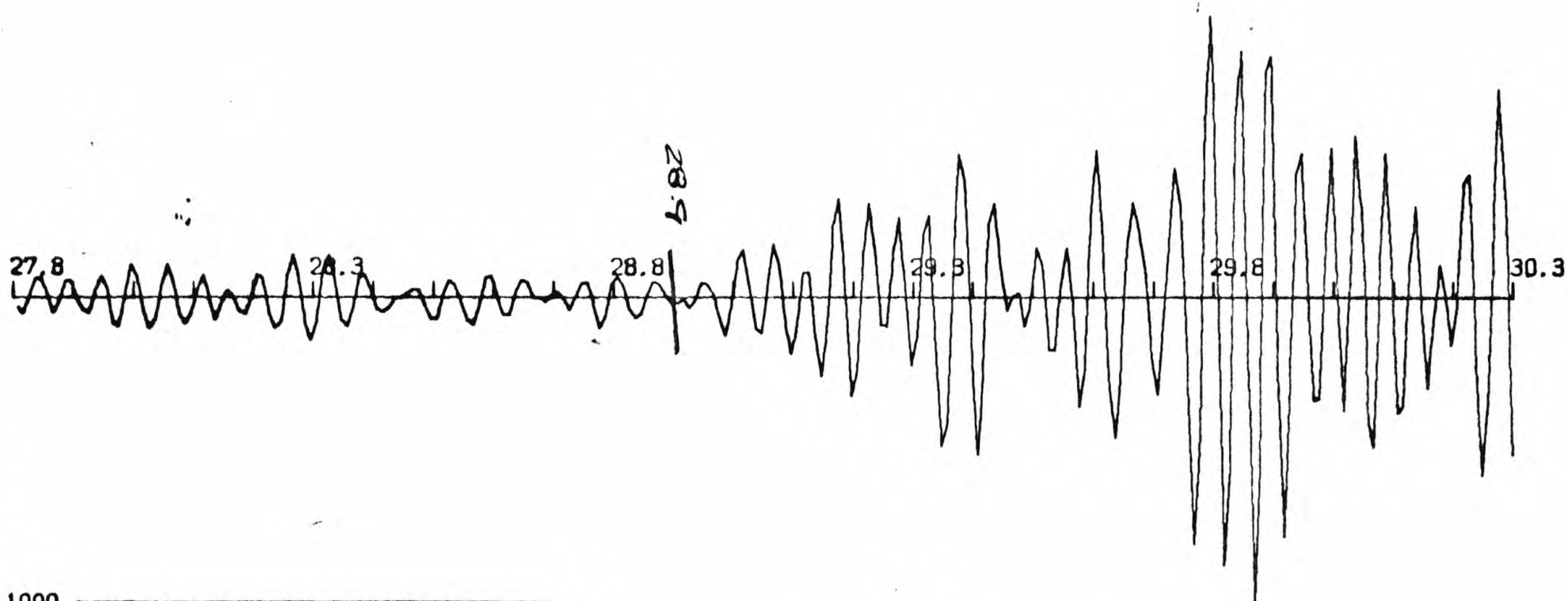
SAUDI REFRACTION PROFILE 15,20 BP

SHOT POINT 4

RECORDER LOCATION 607

DISTANCE FROM SHOT (KM) $\approx$ -172.072

TSCALE (CM/SEC) $\approx$ 10.0



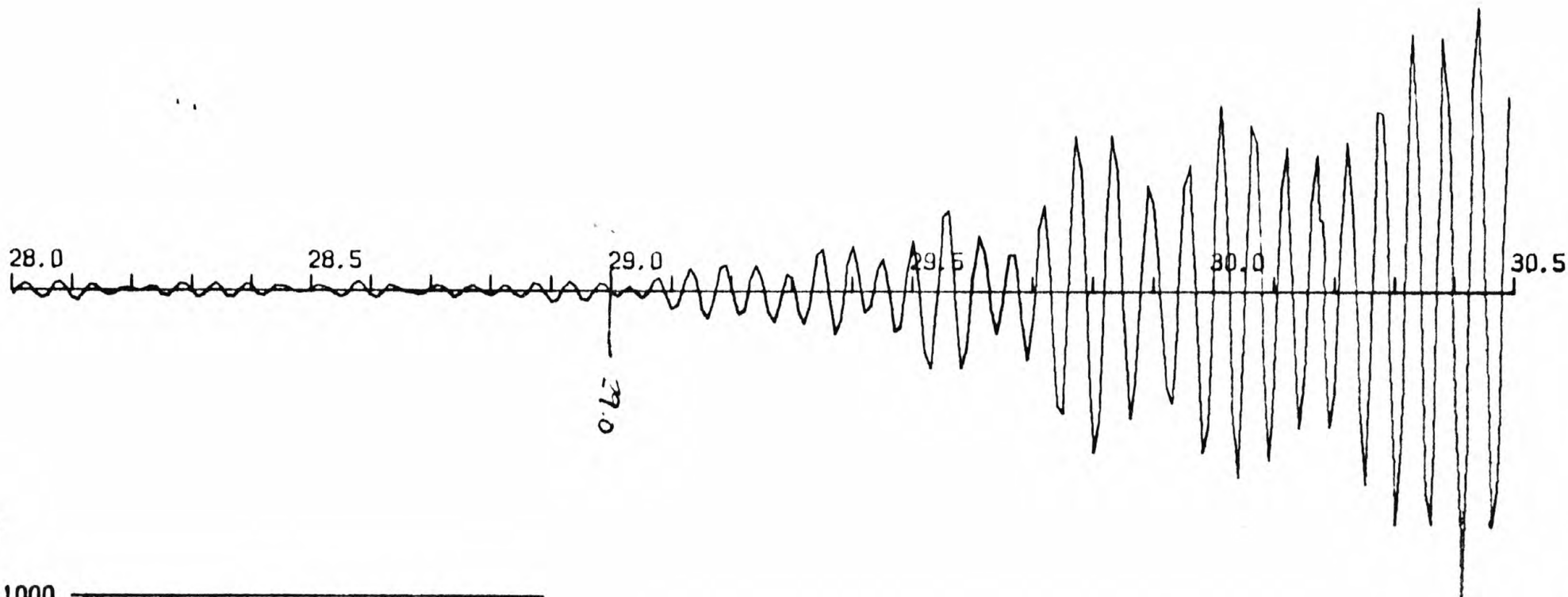
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 4

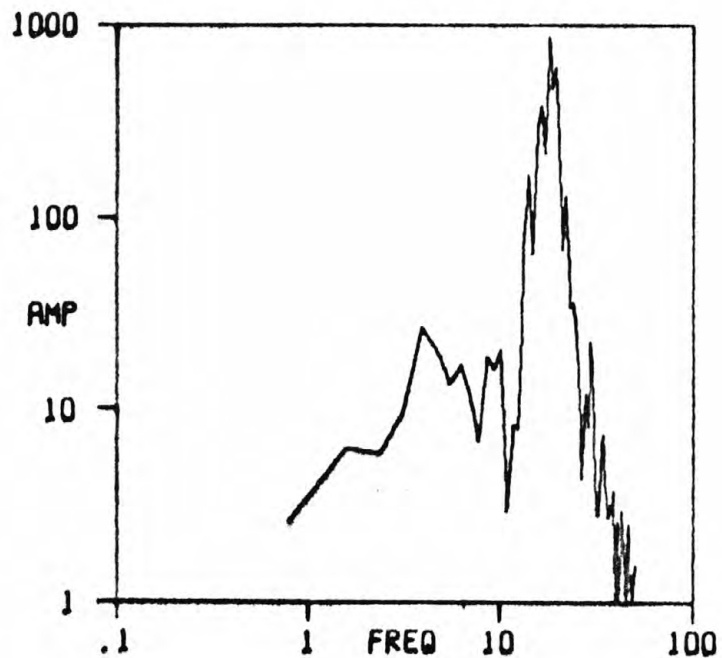
RECORDER LOCATION 610

DISTANCE FROM SHOT (KM) = -178.493

TSCALE (CM/SEC) = 10.0



591



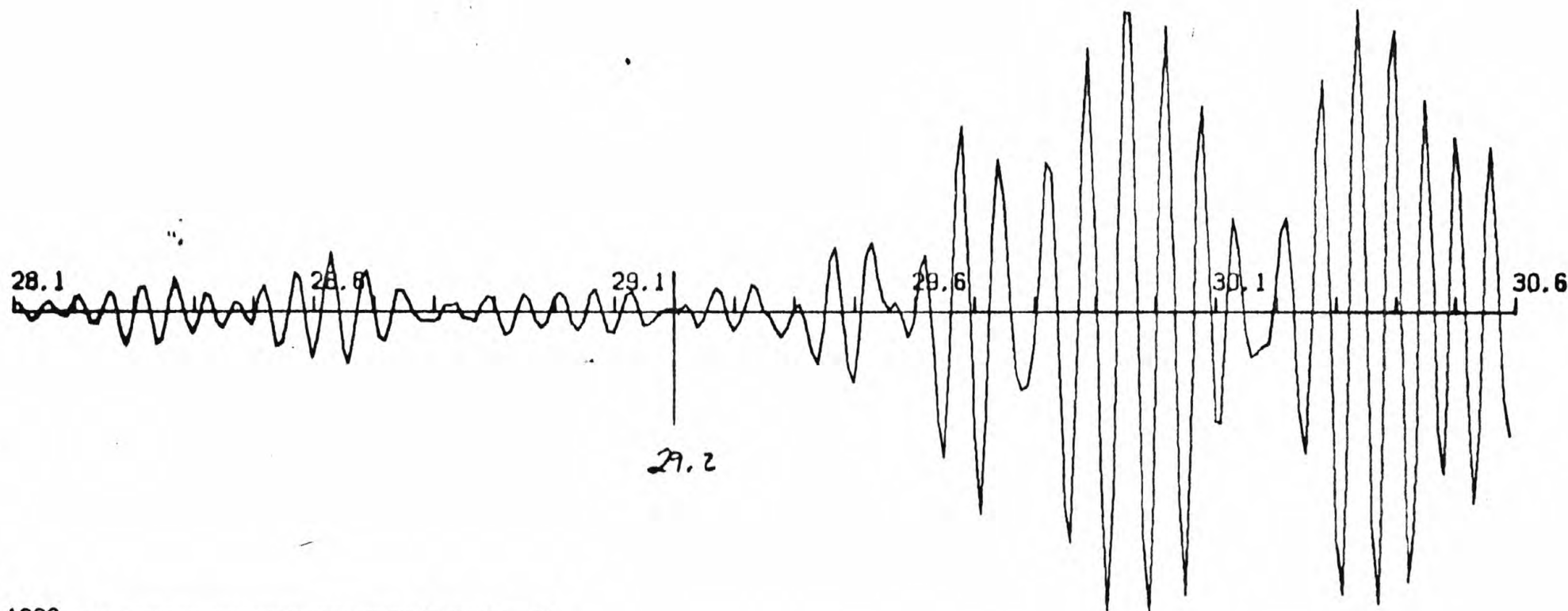
SAUDI REFRACTION PROFILE 15,20 BP

SHOT POINT 4

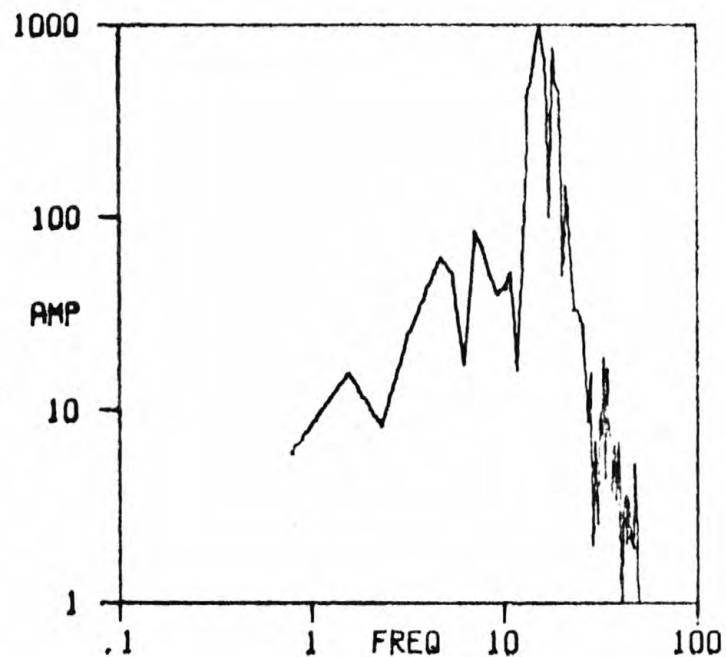
RECORDER LOCATION 611

DISTANCE FROM SHOT (KM) = -179.478

TSCALE (CM/SEC) = 10.0



592



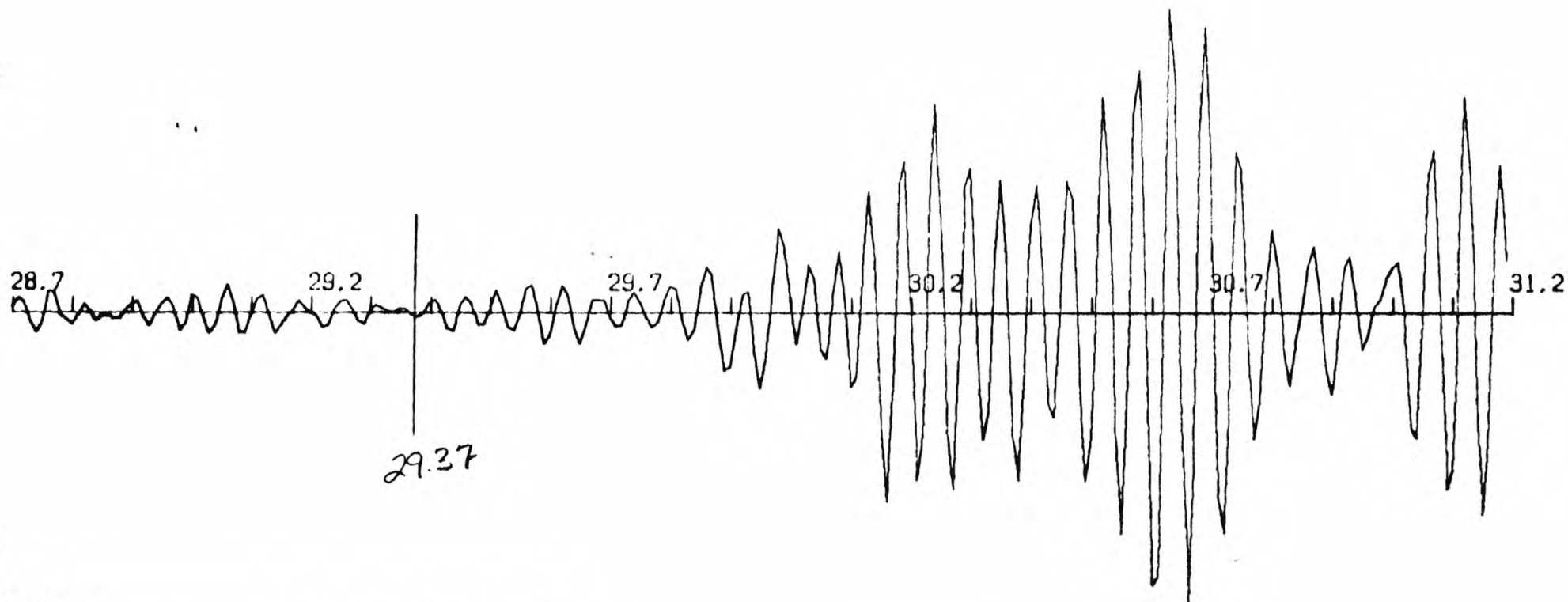
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 4

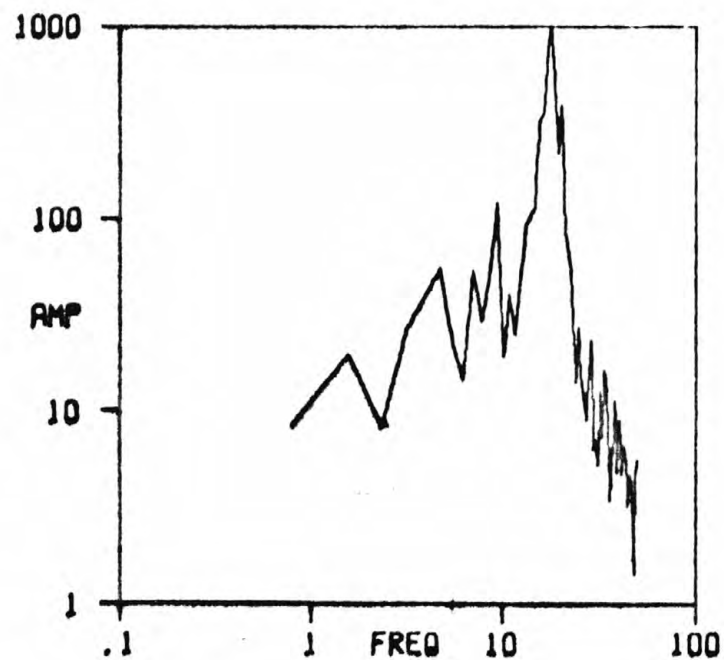
RECORDER LOCATION 612

DISTANCE FROM SHOT (KM) = -180.420

TSCALE (CM/SEC) = 10.0



593



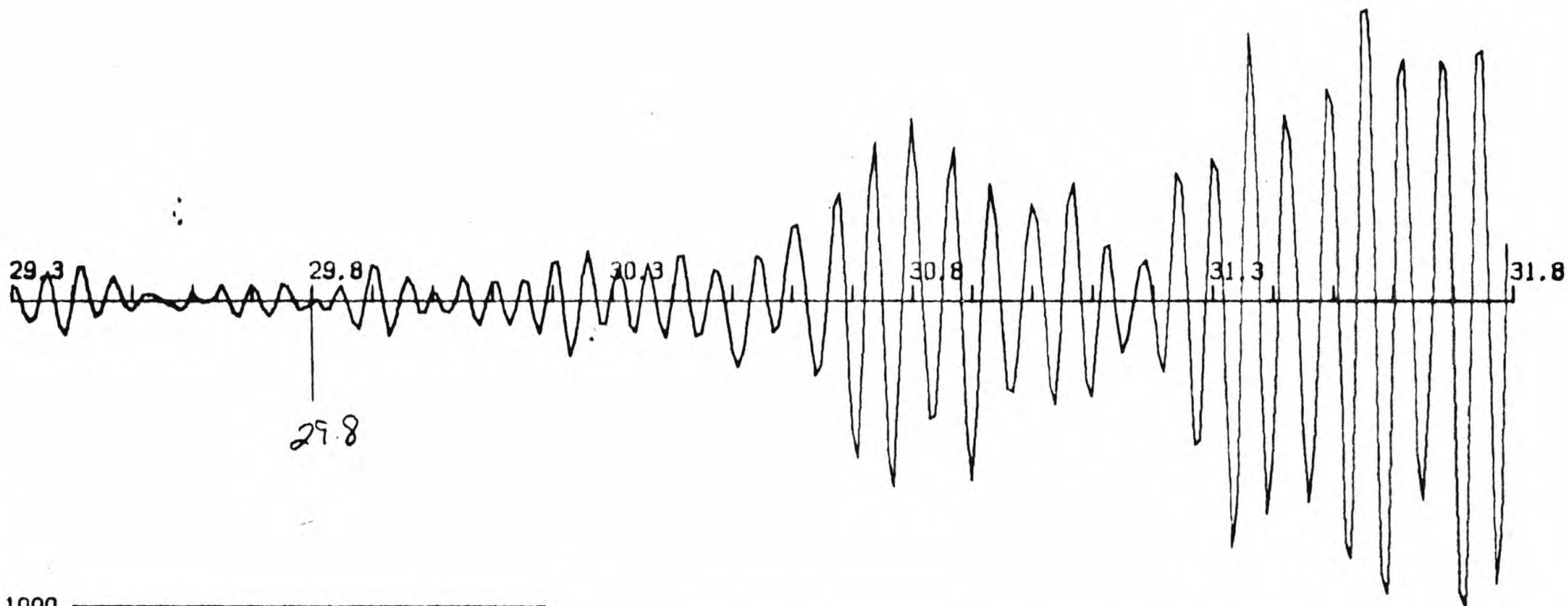
SAUDI REFRACTION PROFILE 15,20 BP

SHOT POINT 4

RECORDER LOCATION 614

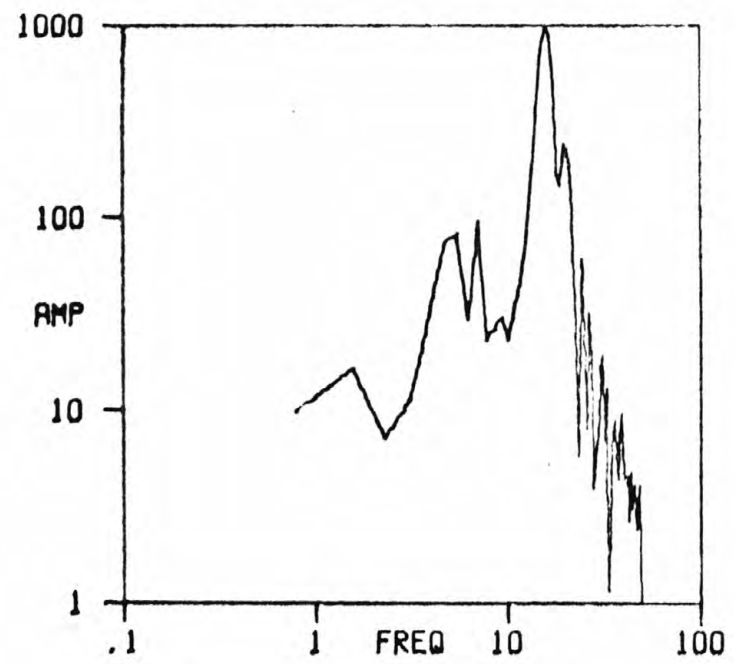
DISTANCE FROM SHOT (KM) = -184.025

TSCALE (CM/SEC) = 10.0



29.8

514



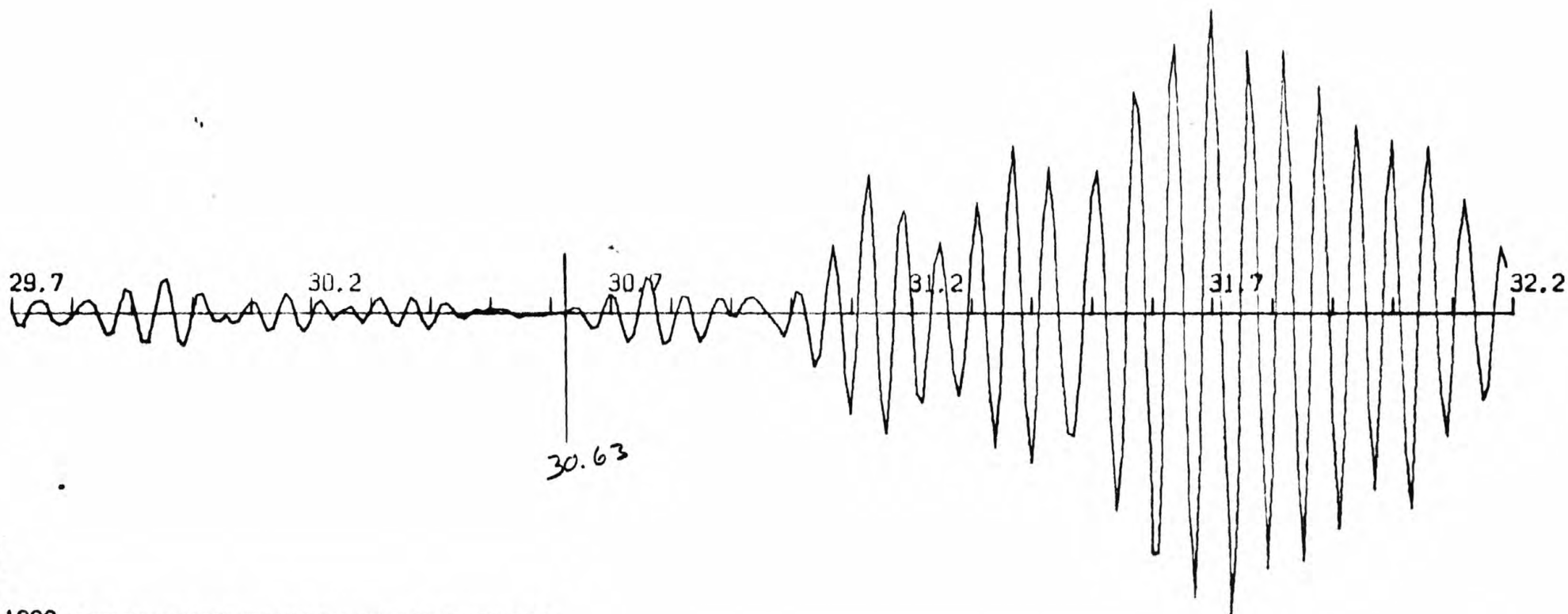
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 4

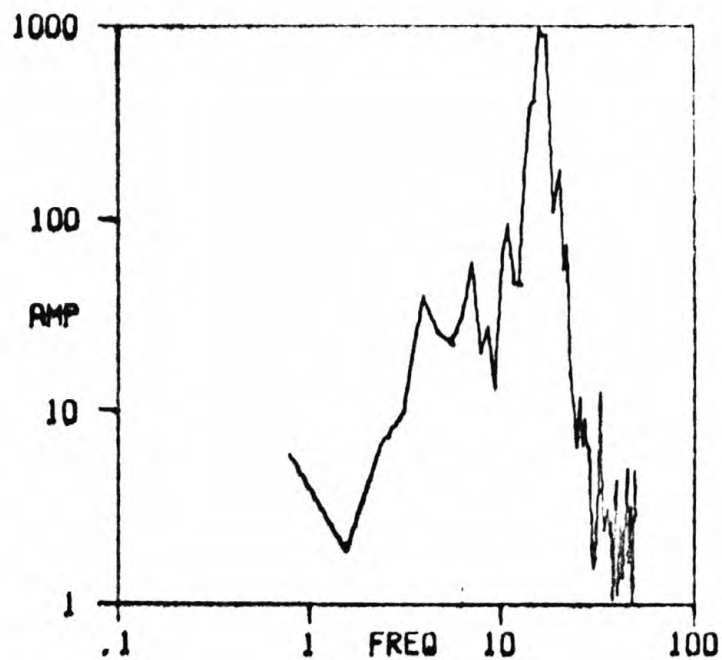
RECORDER LOCATION 616

DISTANCE FROM SHOT (KM) = -187.746

TSCALE (CM/SEC) = 10.0



595



SAUDI REFRACTION PROFILE 15.20 BP

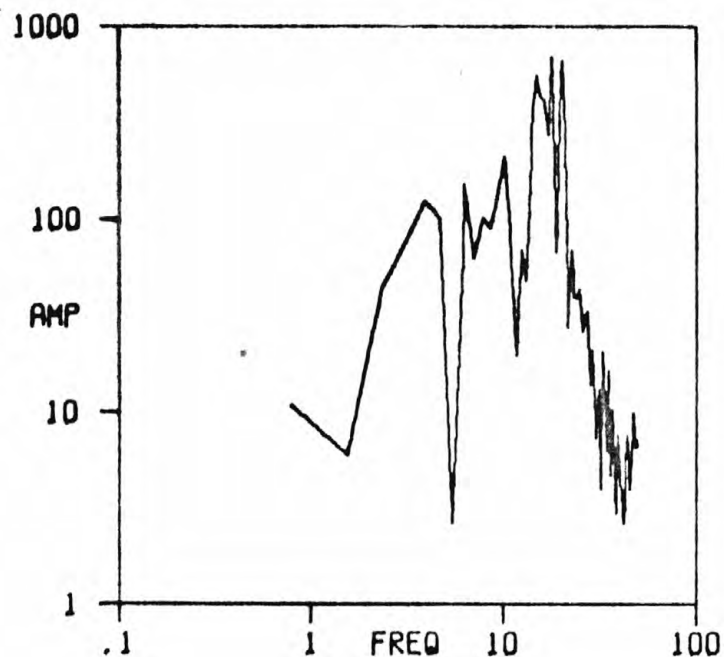
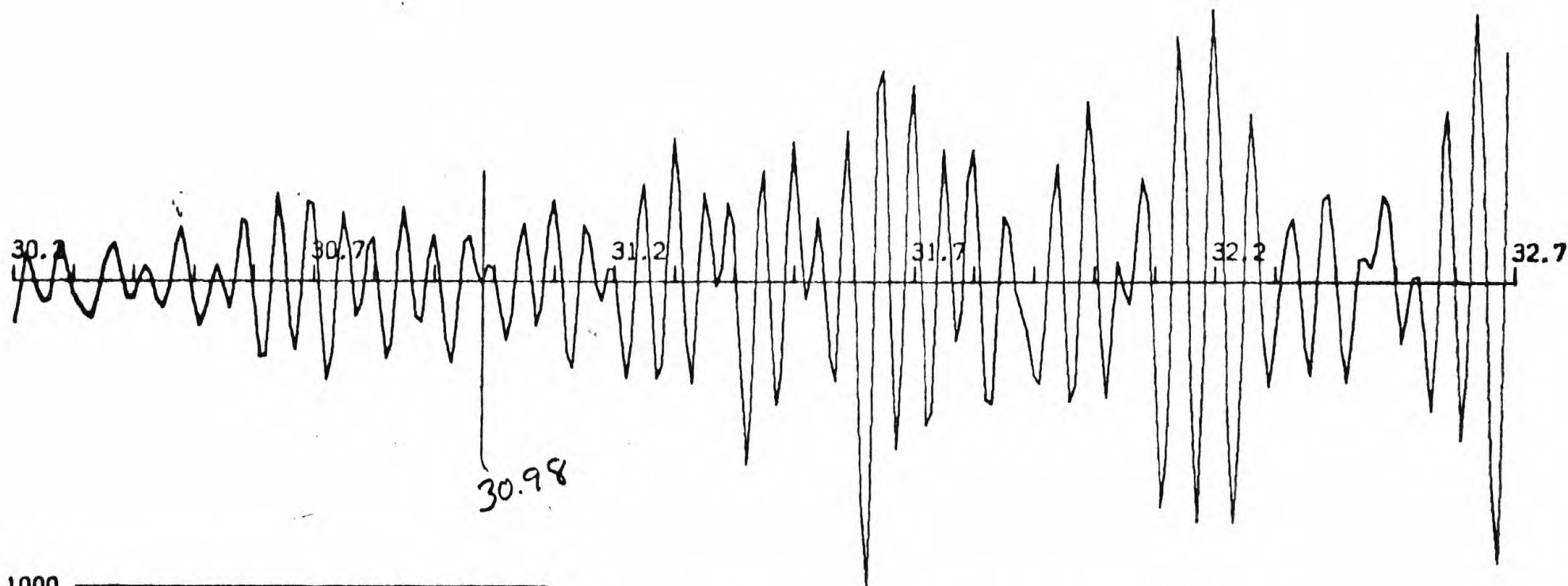
SHOT POINT 4

RECORDER LOCATION 617

DISTANCE FROM SHOT (KM) = -189.842

TSCALE (CM/SEC) = 10.0

596



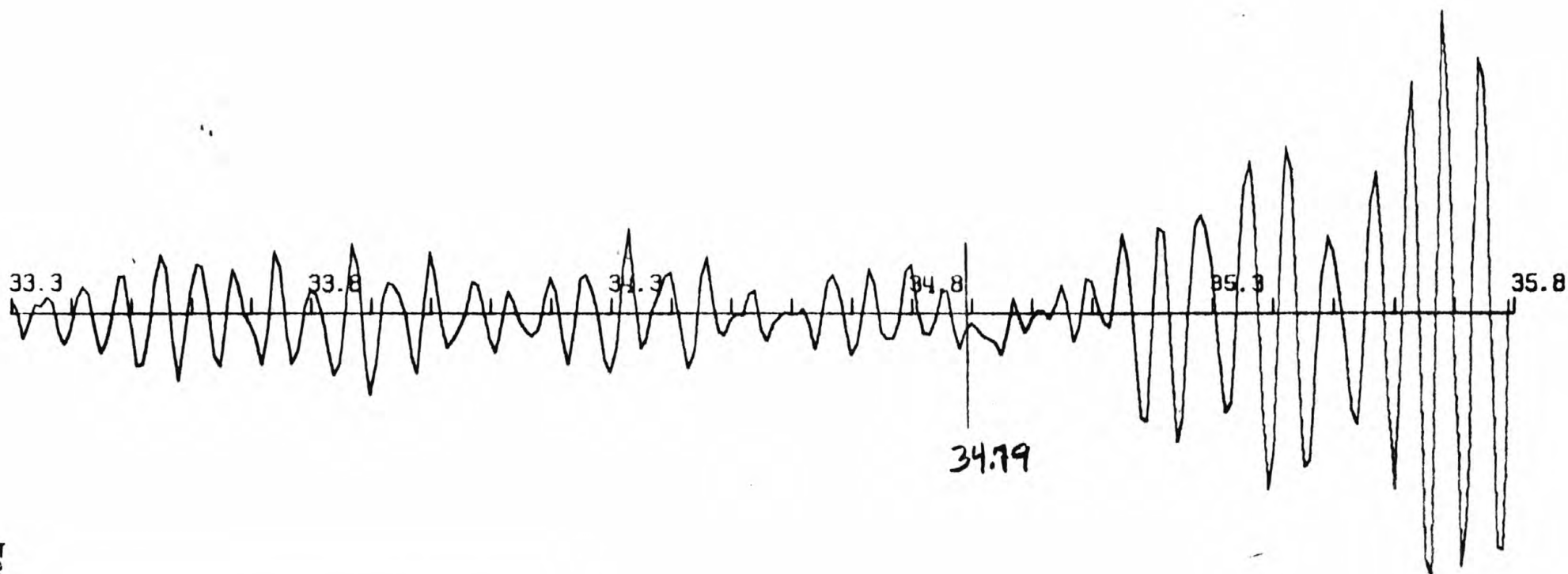
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 4

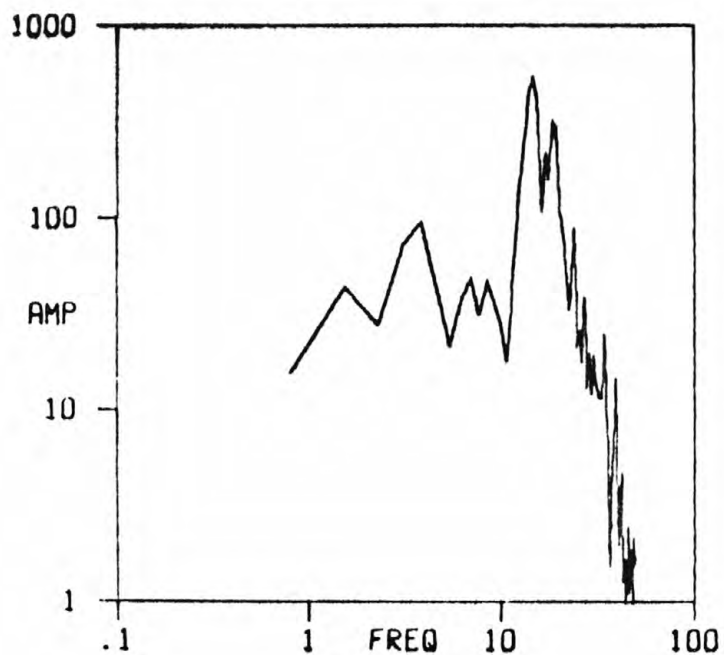
RECORDER LOCATION 618

DISTANCE FROM SHOT (KM) = -192.727

TSCALE (CM/SEC) = 10.0



597



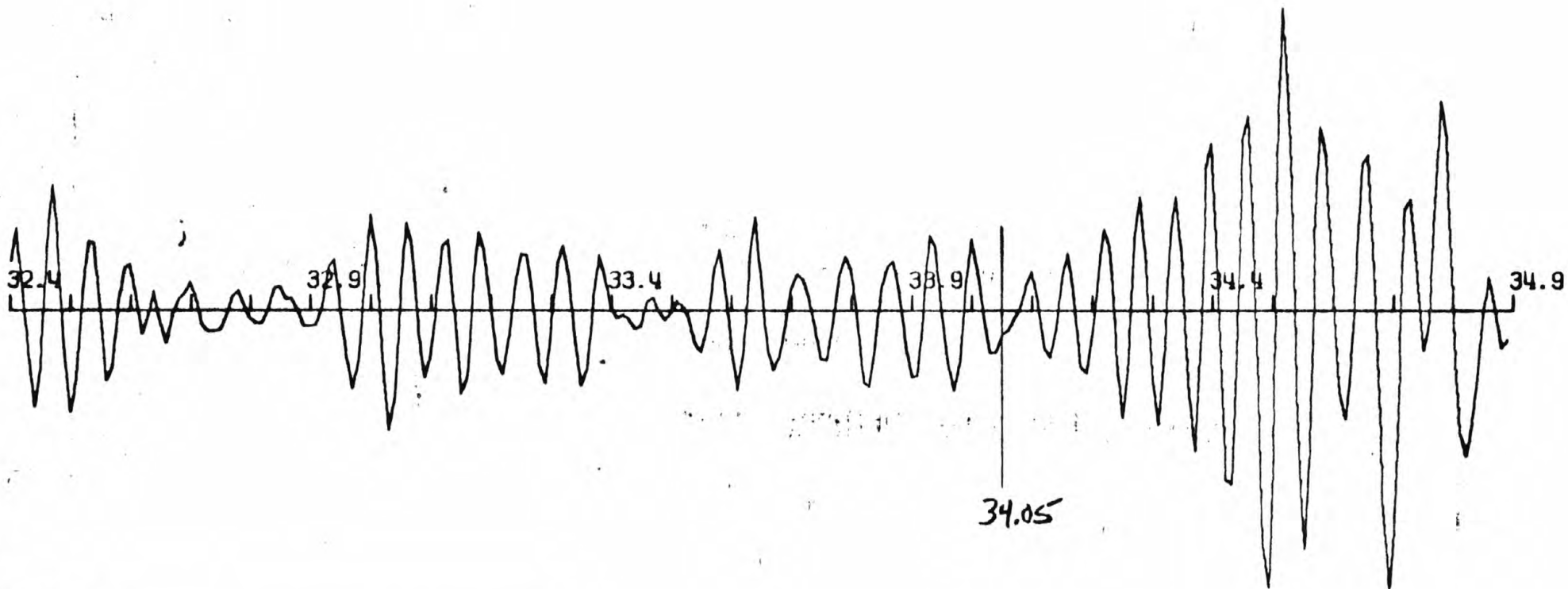
SAUDI ARABIAN REFRACTION PROFILE (15,17BP)

SHOT POINT 4

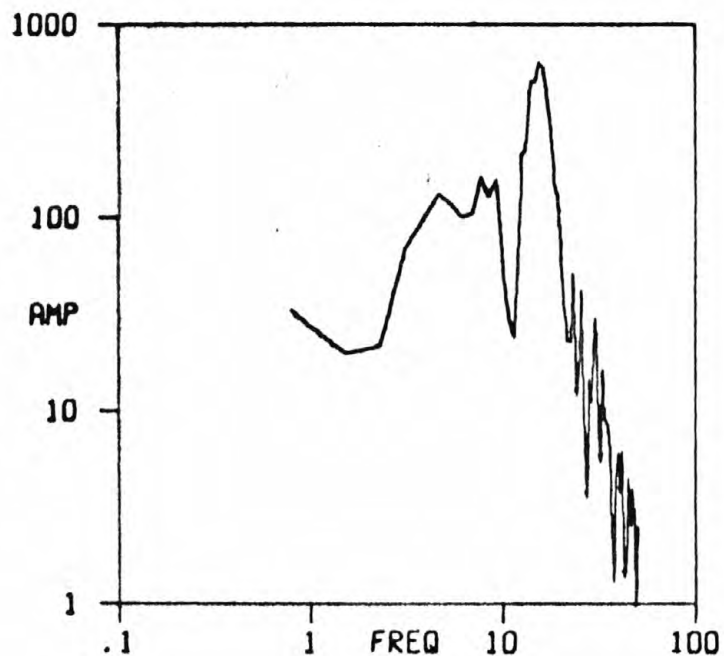
RECORDER LOCATION 955

DISTANCE FROM SHOT (KM) = -211.567

TSCALE (CM/SEC) = 10.0



598
865



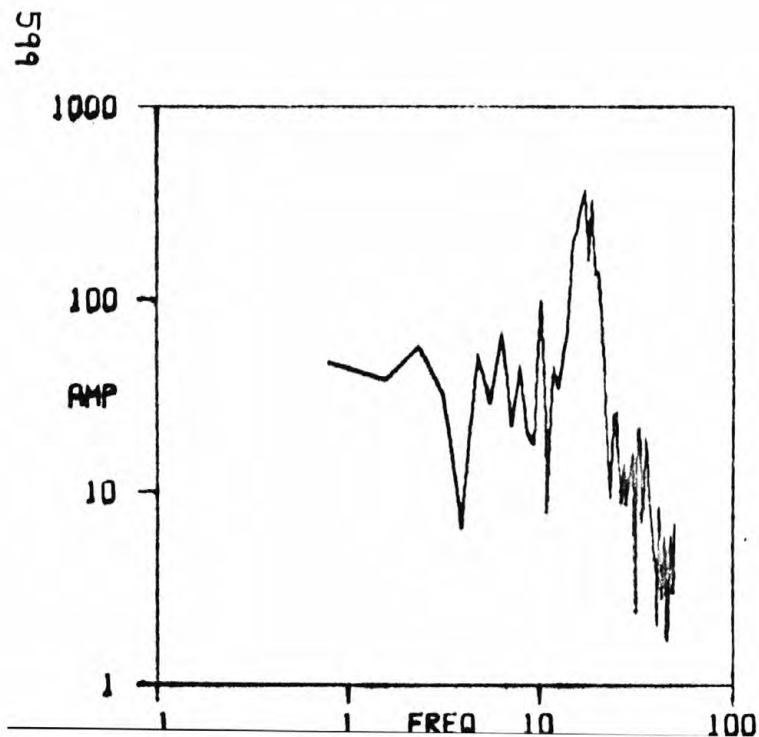
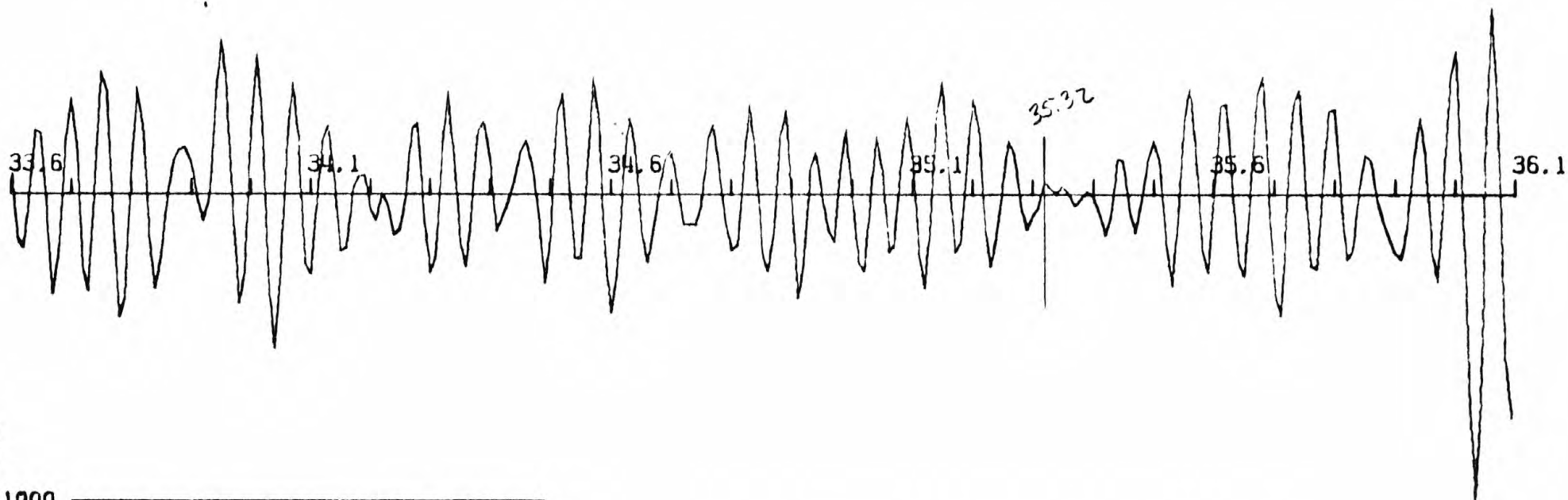
SAUDI ARABIAN REFRACTION PROFILE (15,178P

SHOT POINT 4

RECORDER LOCATION 956

DISTANCE FROM SHOT (KM) = -215.354

TSCALE (CM/SEC) = 10.0



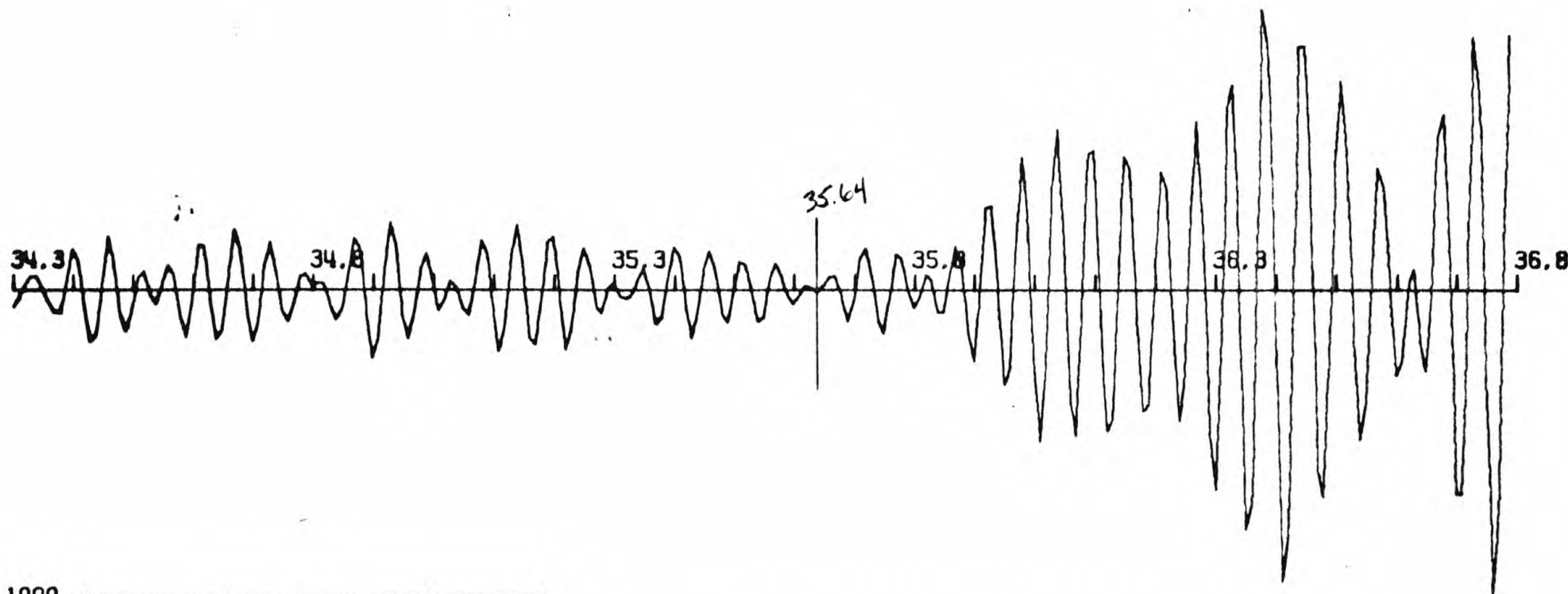
SAUDI REFRACTION PROFILE 15,20 BP

SHOT POINT 4

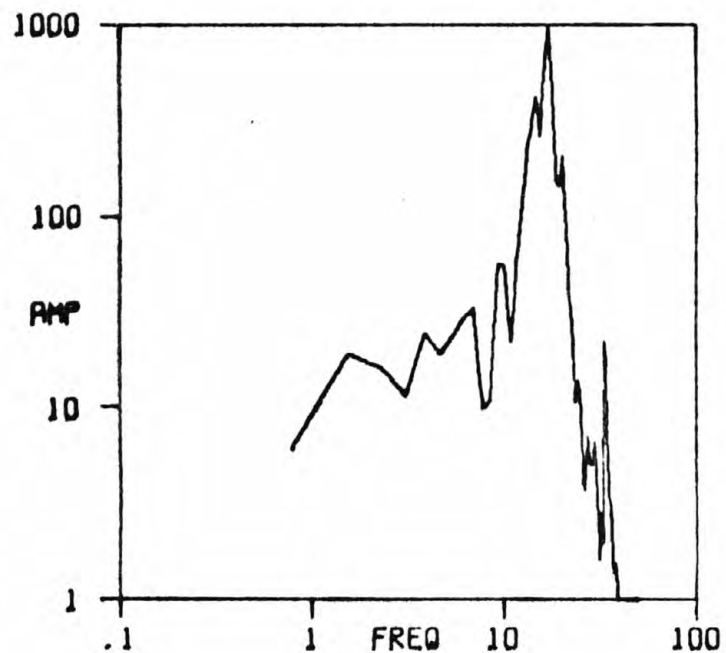
RECORDER LOCATION 960

DISTANCE FROM SHOT (KM) = -225.431

TSCALE (CM/SEC) = 10.0



009



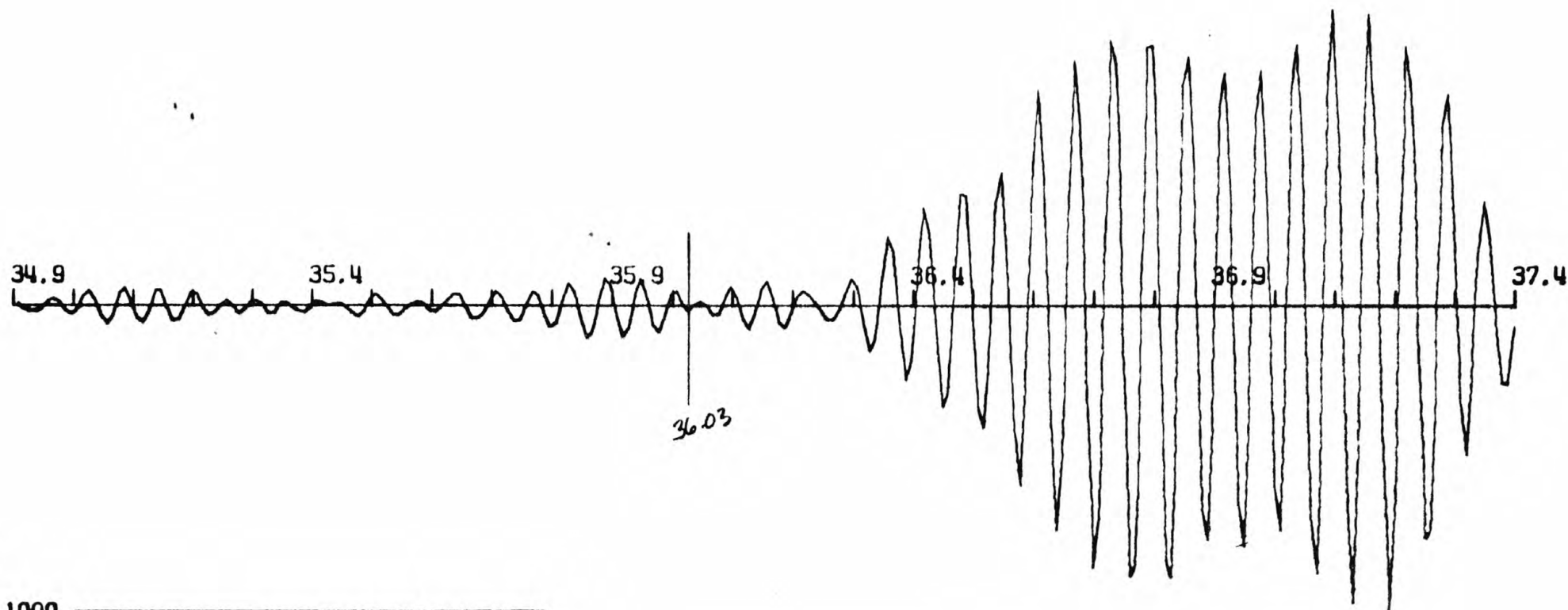
SAUDI REFRACTION PROFILE 15,20 BP

SHOT POINT 4

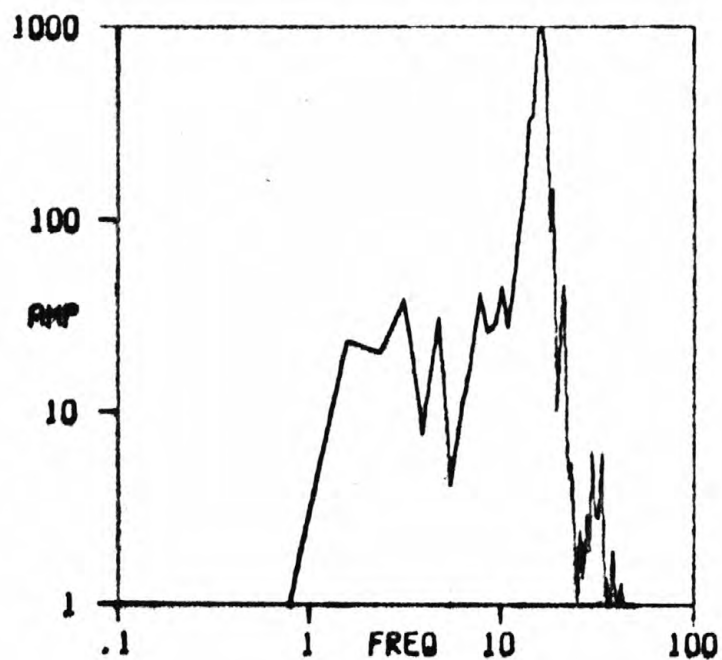
RECORDER LOCATION 961

DISTANCE FROM SHOT (KM) = -229,261

TSCALE (CM/SEC) = 10.0



109



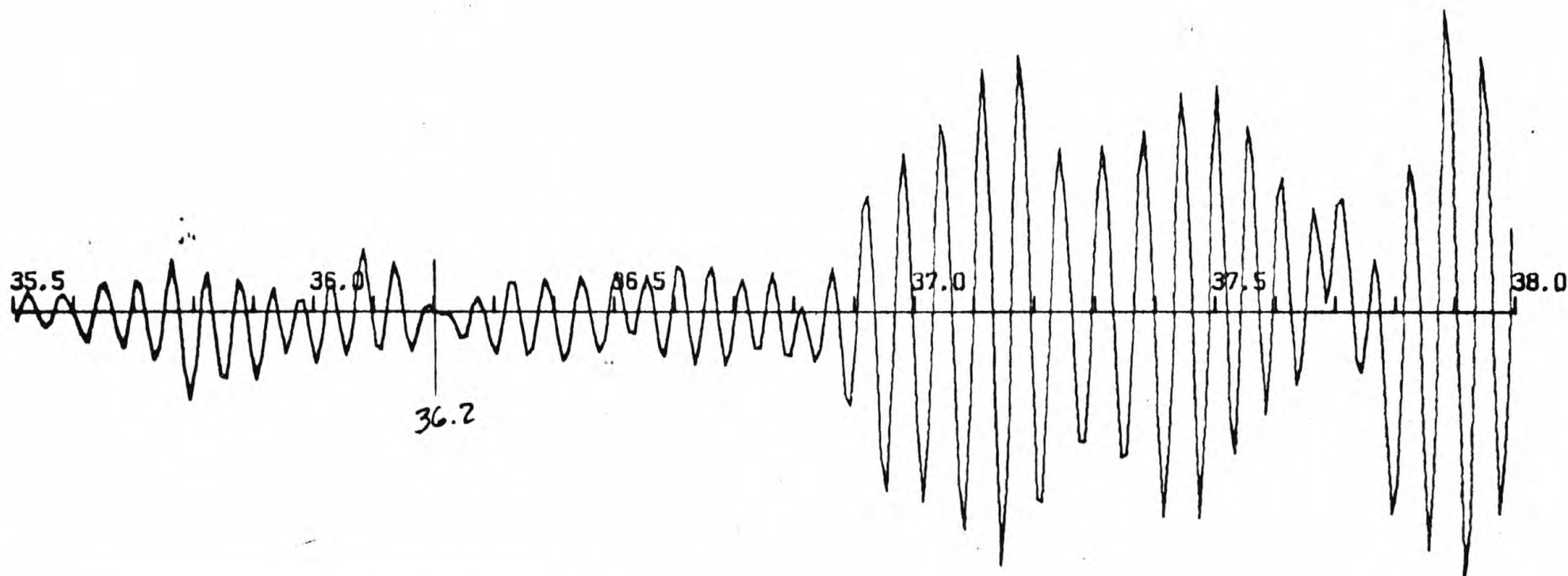
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 4

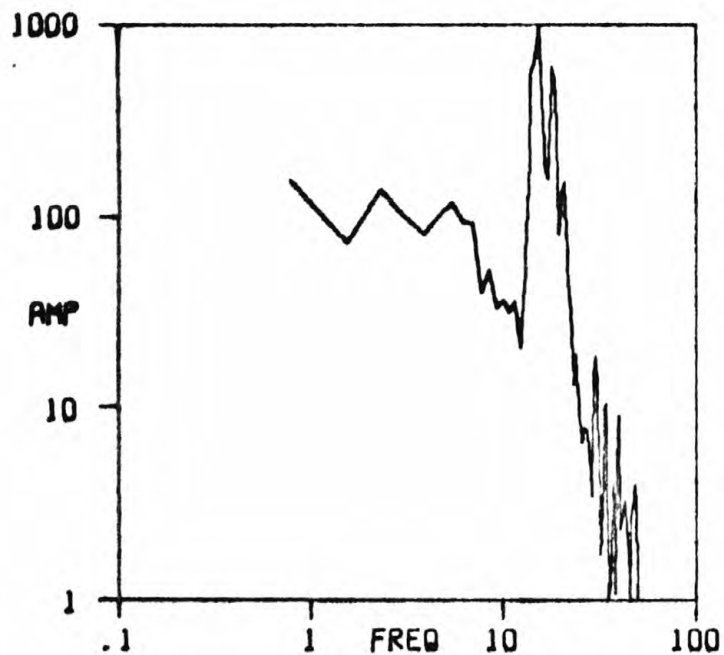
RECORDER LOCATION 962

DISTANCE FROM SHOT (KM) = -232.973

TSCALE (CM/SEC) = 10.0



602



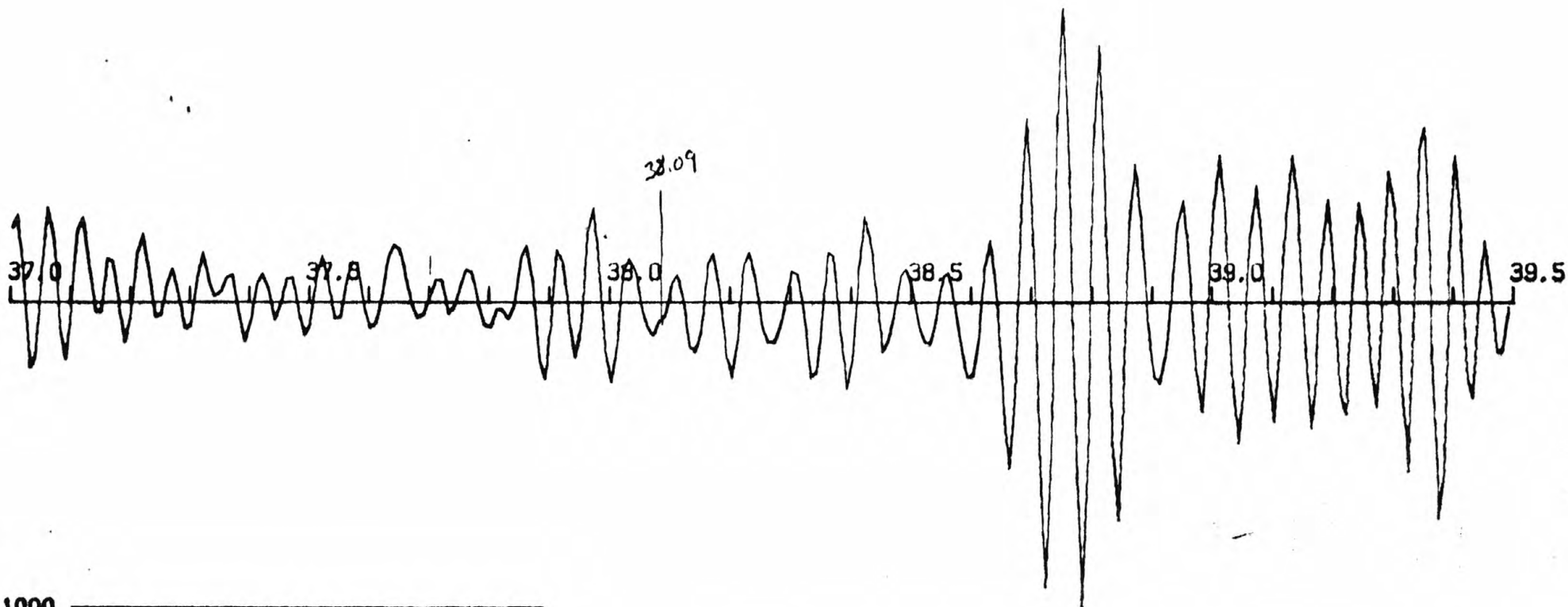
SAUDI REFRACTION PROFILE 15,20 BP

SHOT POINT 4

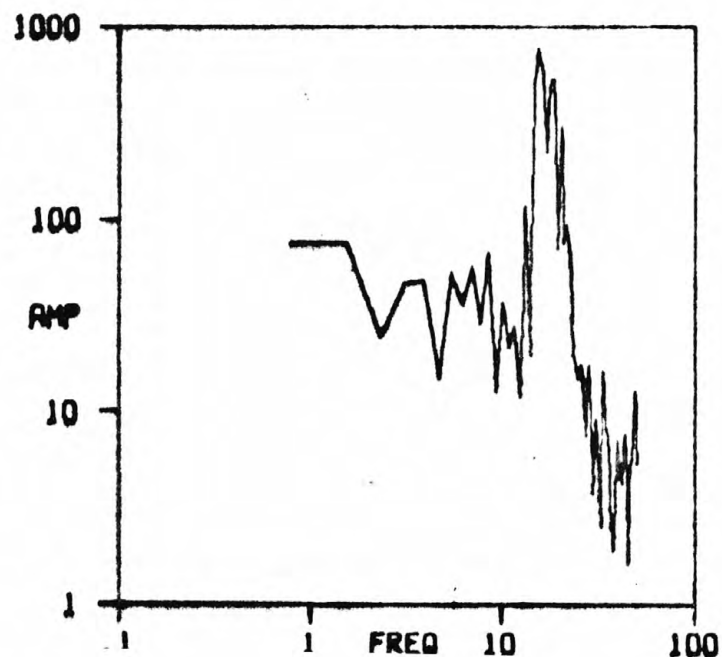
RECORDER LOCATION 963

DISTANCE FROM SHOT (KM) = -236.914

TSCALE (CM/SEC) = 10.0



603



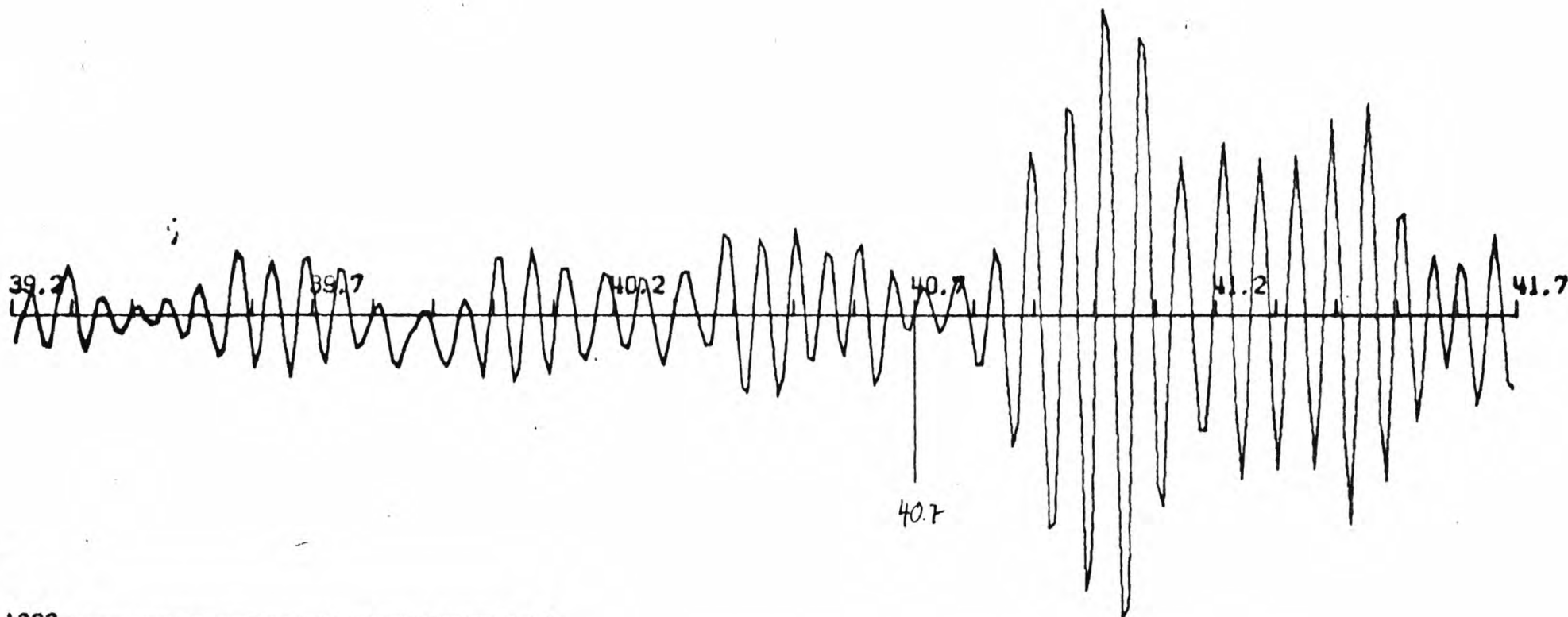
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 4

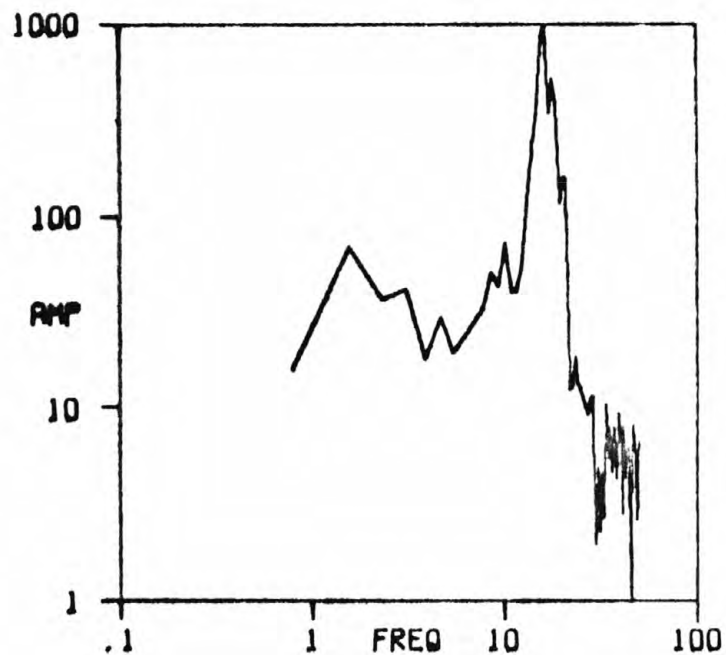
RECORDER LOCATION 968

DISTANCE FROM SHOT (KM) = -251.544

TSCALE (CM/SEC) = 10.0



604



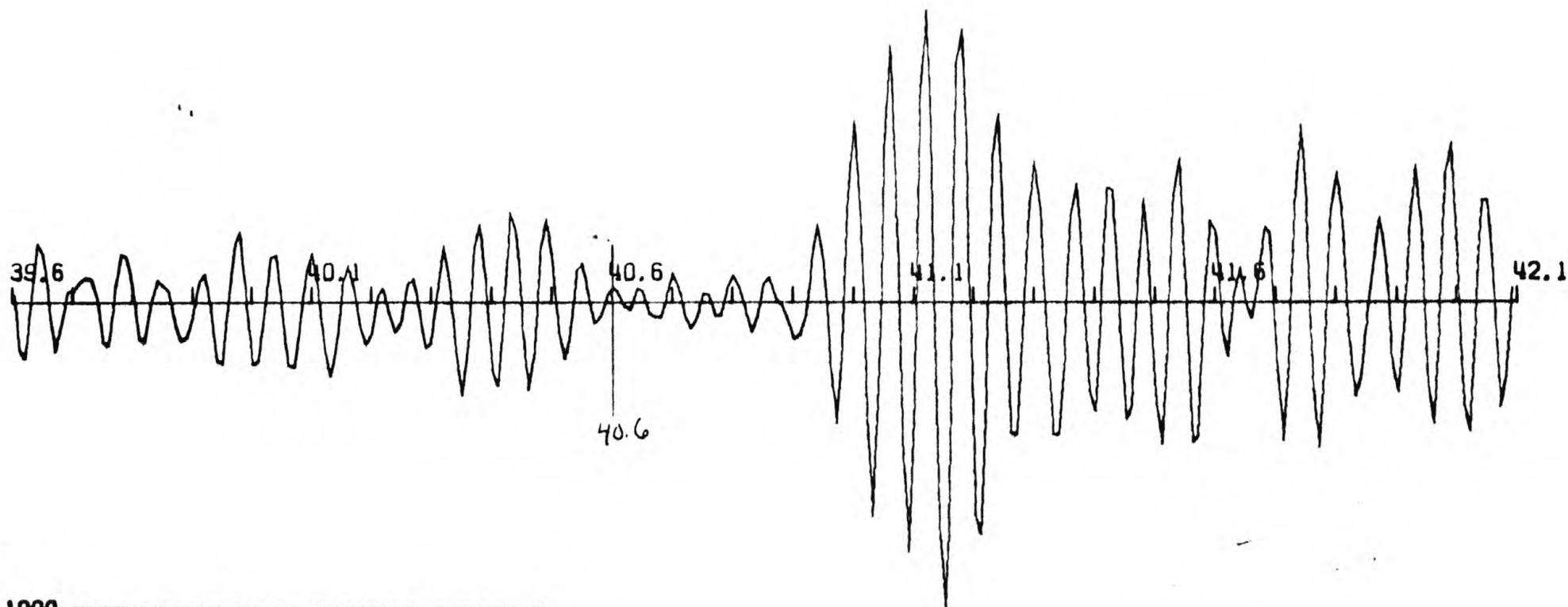
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 4

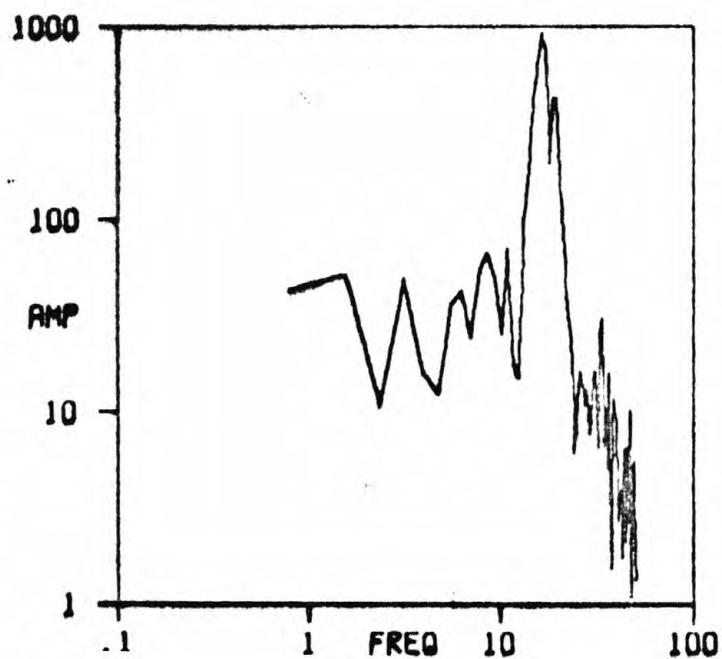
RECORDER LOCATION 801

DISTANCE FROM SHOT (KM) = -271.053

TSCALE (CM/SEC) = 10.0



505



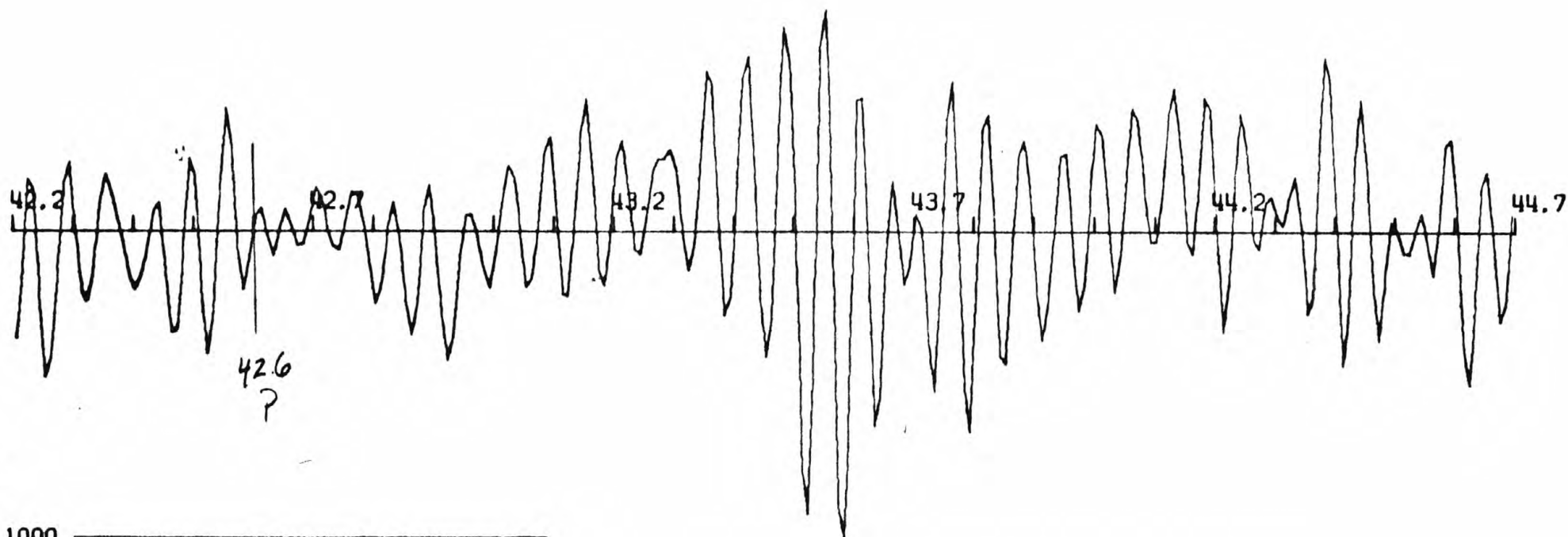
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 4

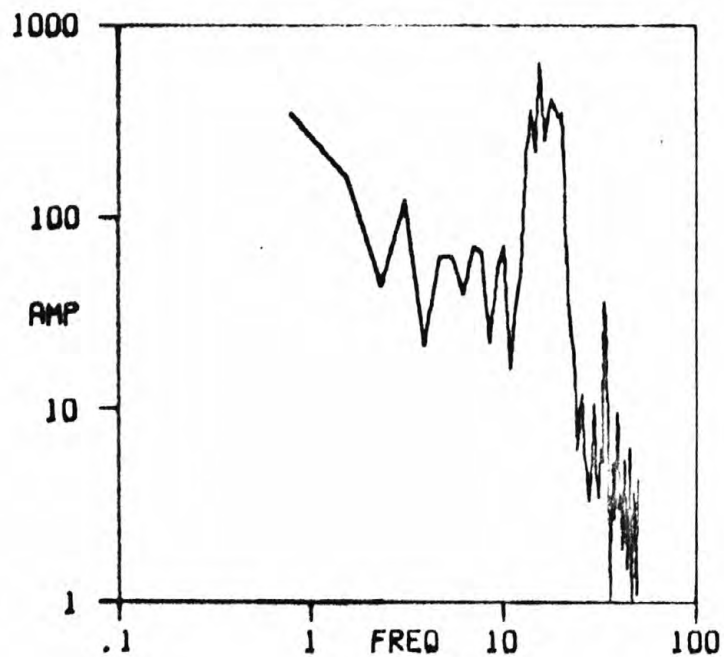
RECORDER LOCATION 802

DISTANCE FROM SHOT (KM) = -273.380

TSCALE (CM/SEC) = 10.0



900



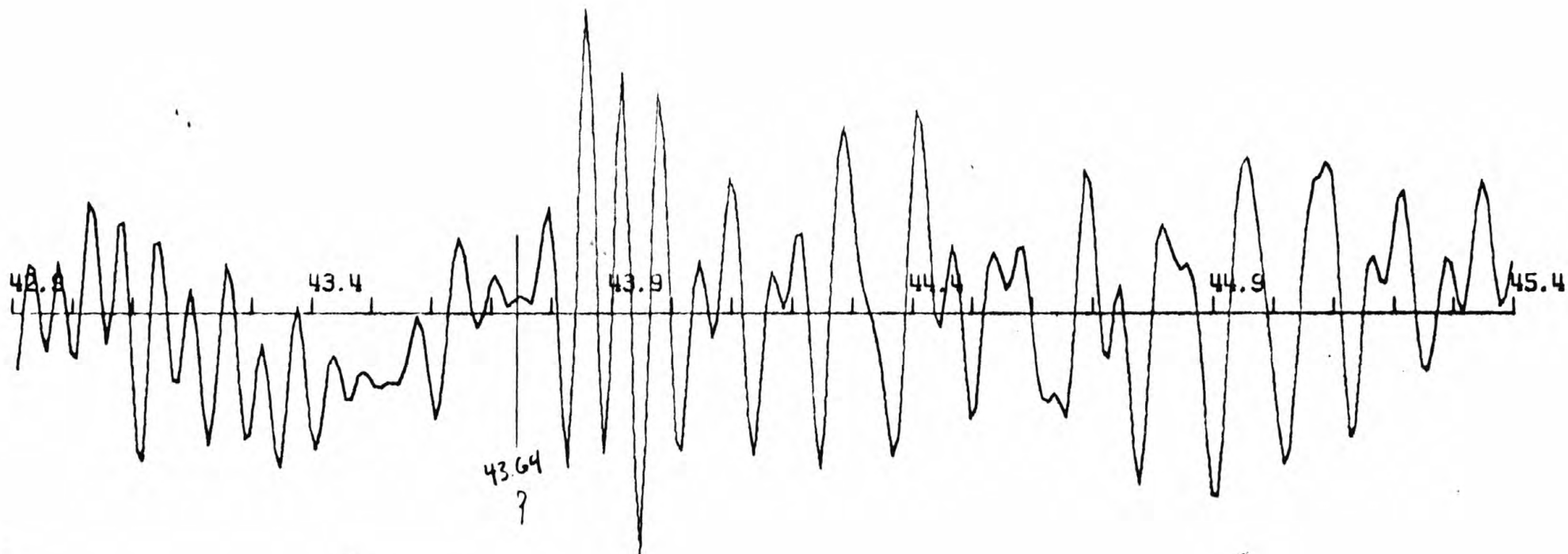
SAUDI REFRACTION PROFILE 15,20 BP

SHOT POINT 4

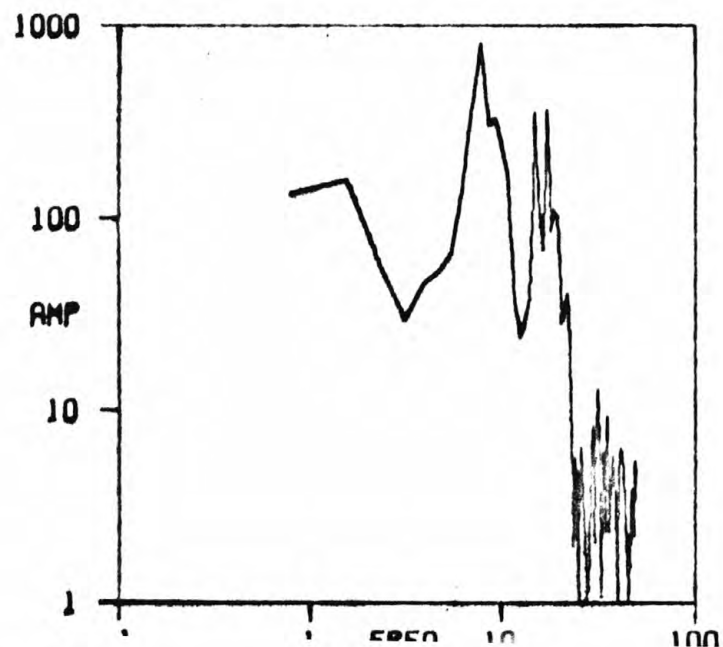
RECORDER LOCATION 810

DISTANCE FROM SHOT (KM) = -294.934

TSCALE (CM/SEC) = 10.0



409



SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 4

RECORDER LOCATION 811

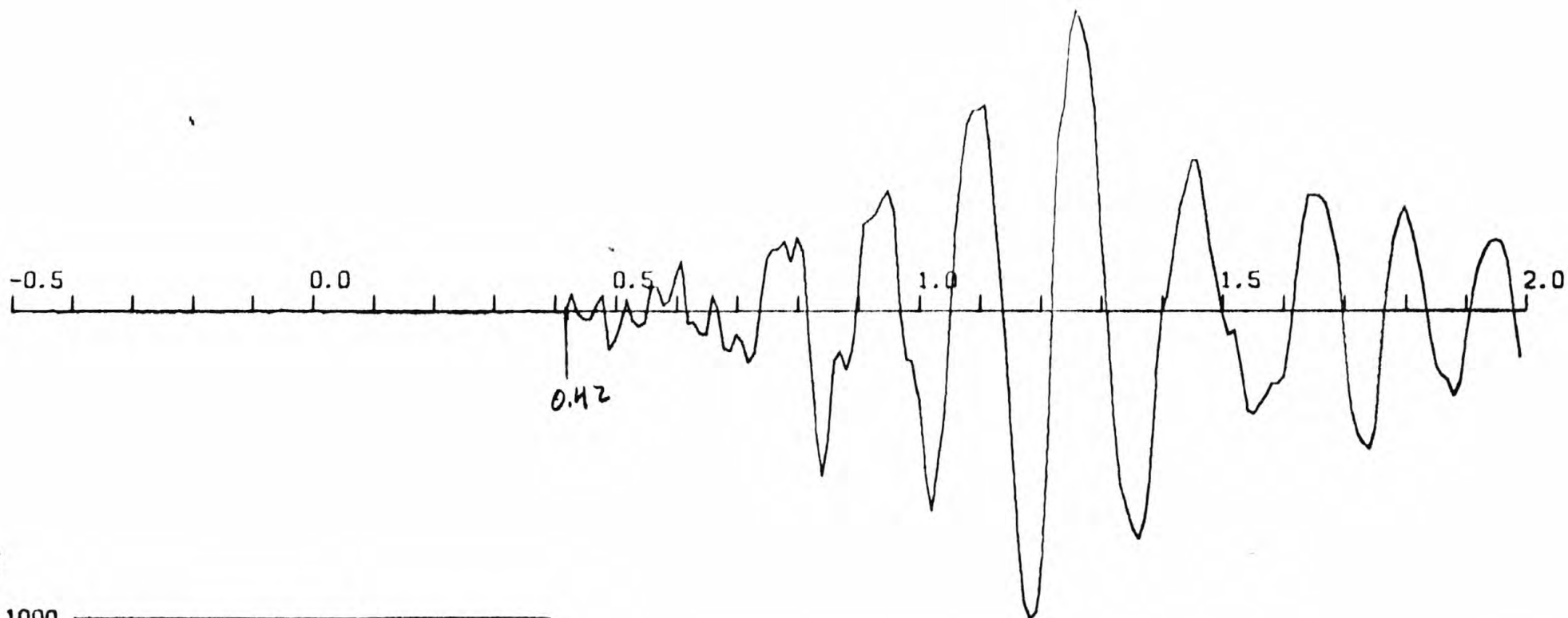
DISTANCE FROM SHOT (KM) = -299.332

TSCALE (CM/SEC) = 10.0

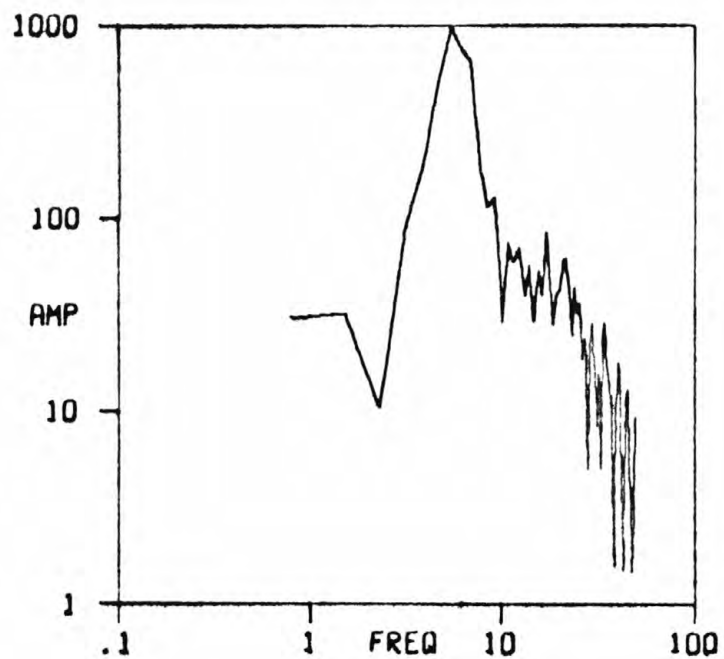
First Arrivals

Northeast from Shot Point 5

(2.5 to 249.4 km)



119



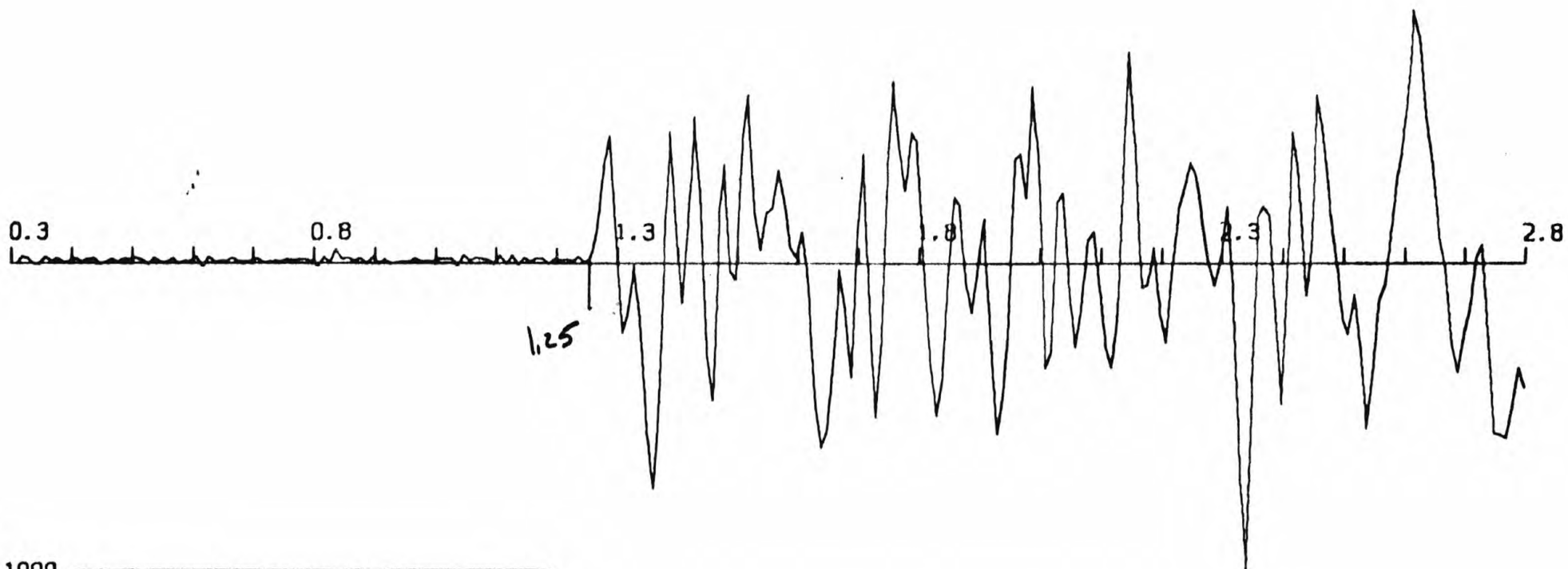
SAUDI ARABIAN REFRACTION PROFILE

SHOT POINT 5

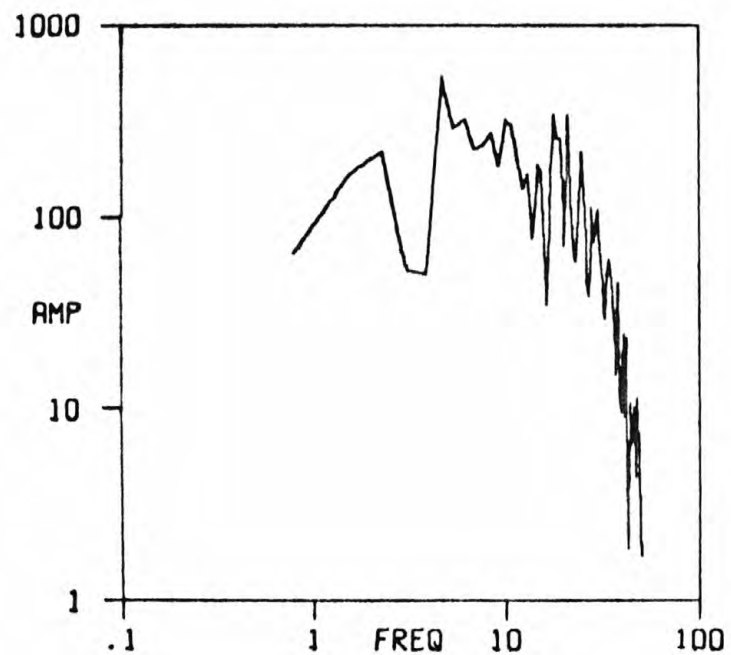
RECORDER LOCATION 627

DISTANCE FROM SHOT (KM) = 2.464

TSCALE (CM/SEC) = 10.0



612



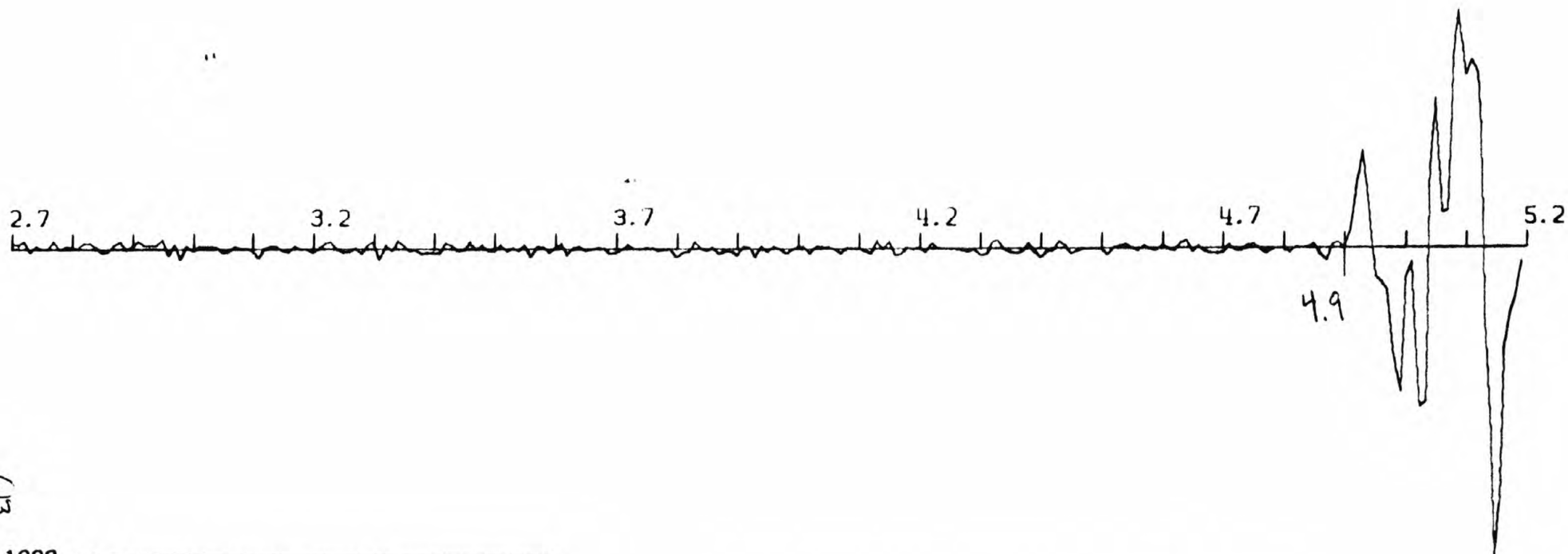
SAUDI ARABIAN REFRACTION PROFILE

SHOT POINT 5

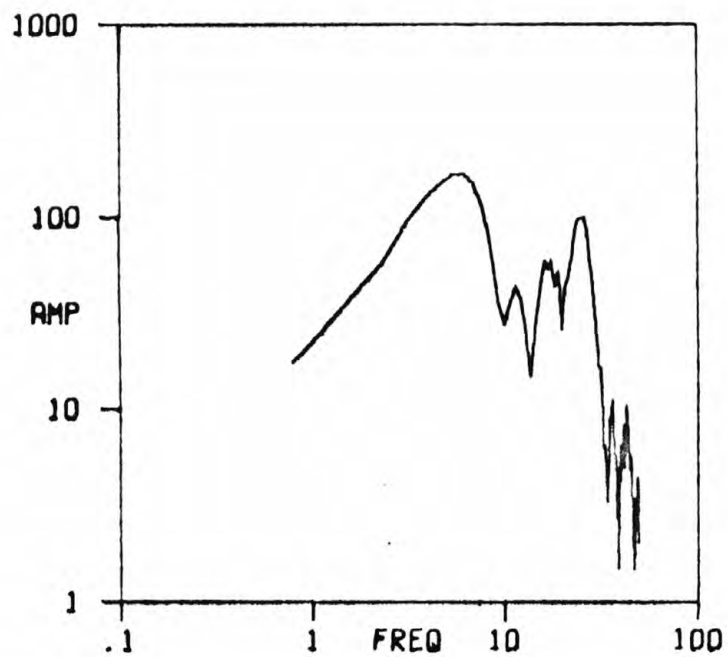
RECORDER LOCATION 968

DISTANCE FROM SHOT (KM) = 7.317

TSCALE (CM/SEC) = 10.0



613



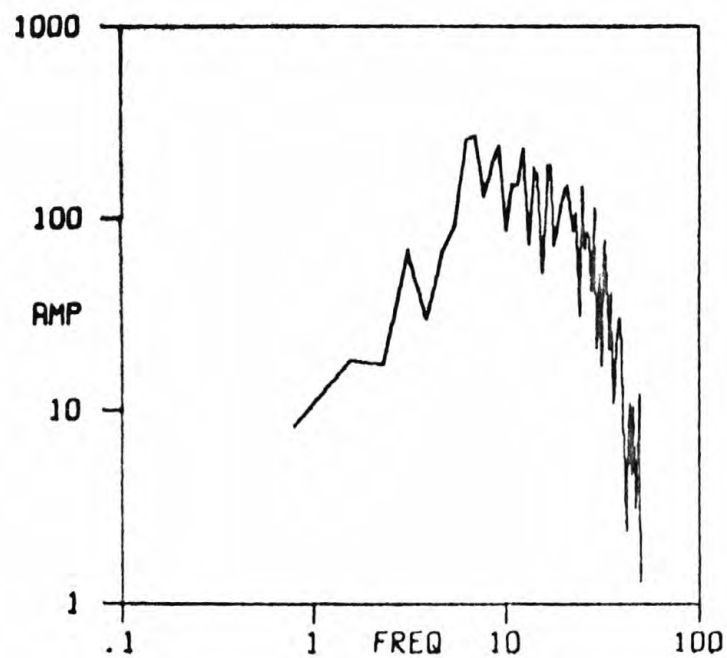
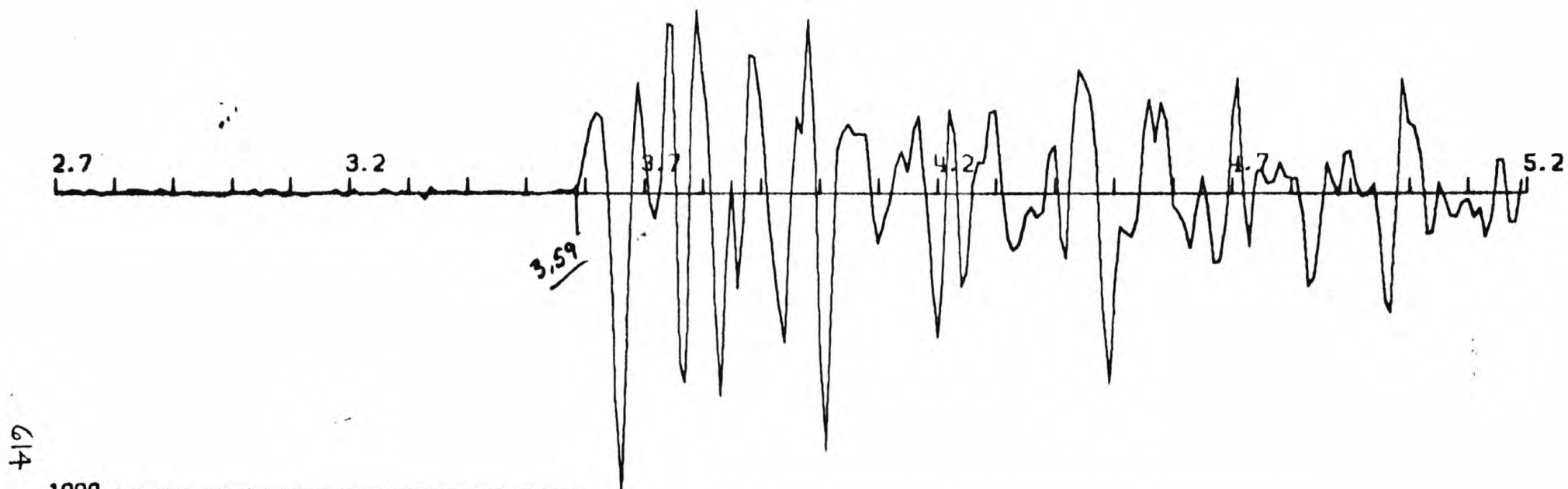
SAUDI ARABIAN REFRACTION PROFILE

SHOT POINT 5

RECORDER LOCATION 963

DISTANCE FROM SHOT (KM) = 21.851

TSCALE (CM/SEC) = 10.0



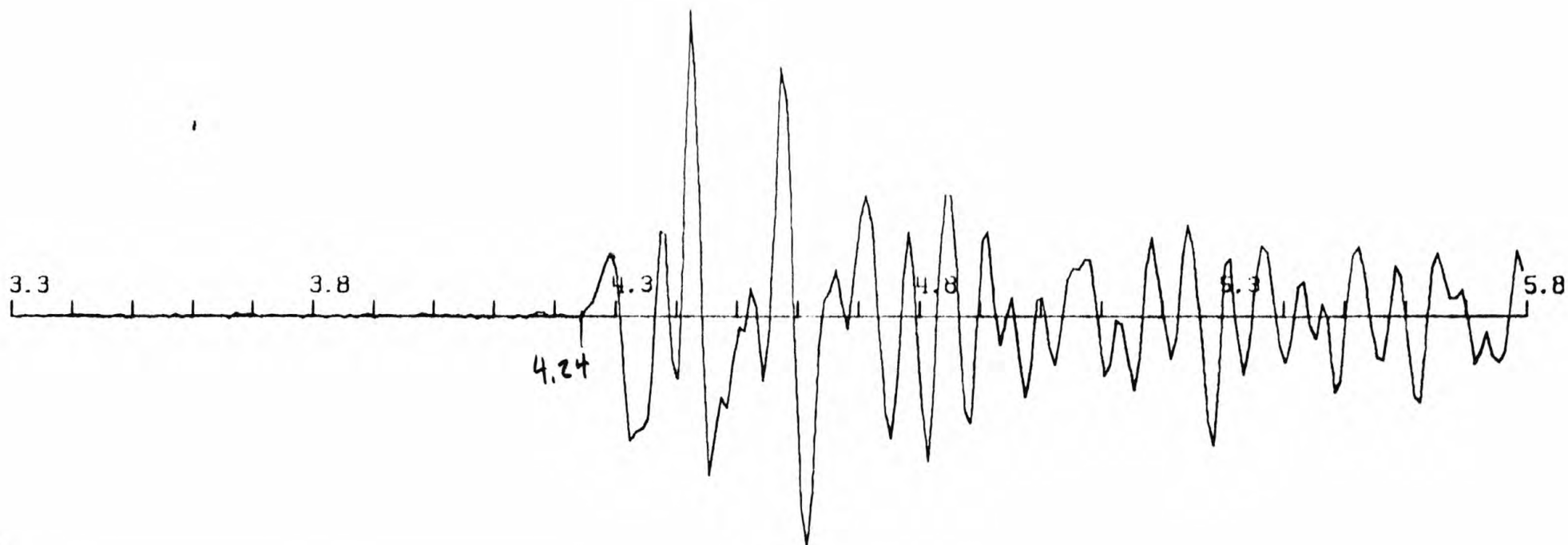
SAUDI ARABIAN REFRACTION PROFILE

SHOT POINT 5

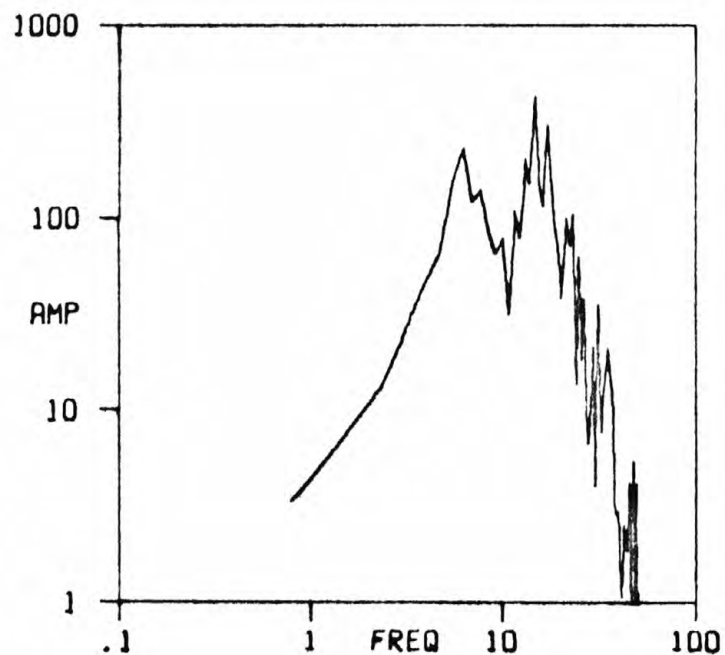
RECORDER LOCATION 963

DISTANCE FROM SHOT (KM) = 21.851

TSCALE (CM/SEC) = 10.0



515



SAUDI ARABIAN REFRACTION PROFILE

SHOT POINT 5

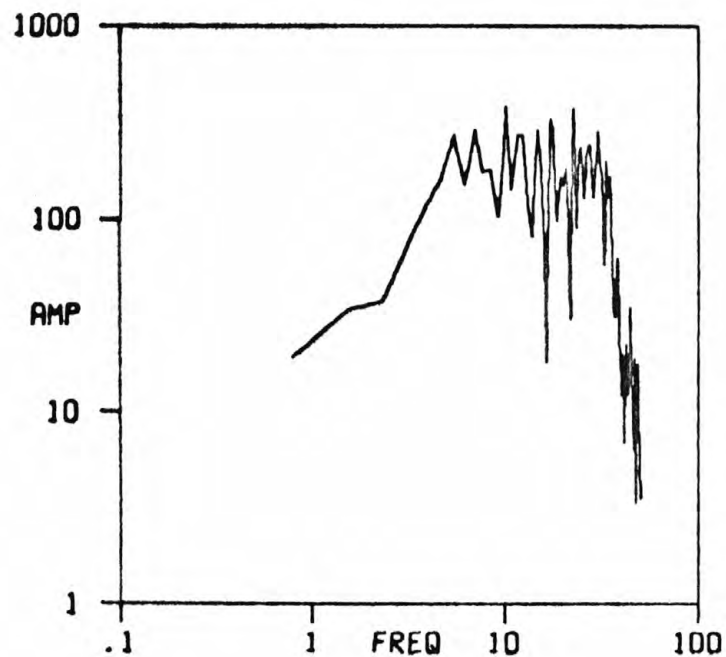
RECORDER LOCATION 962

DISTANCE FROM SHOT (KM) = 25.772

TSCALE (CM/SEC) = 10.0



916



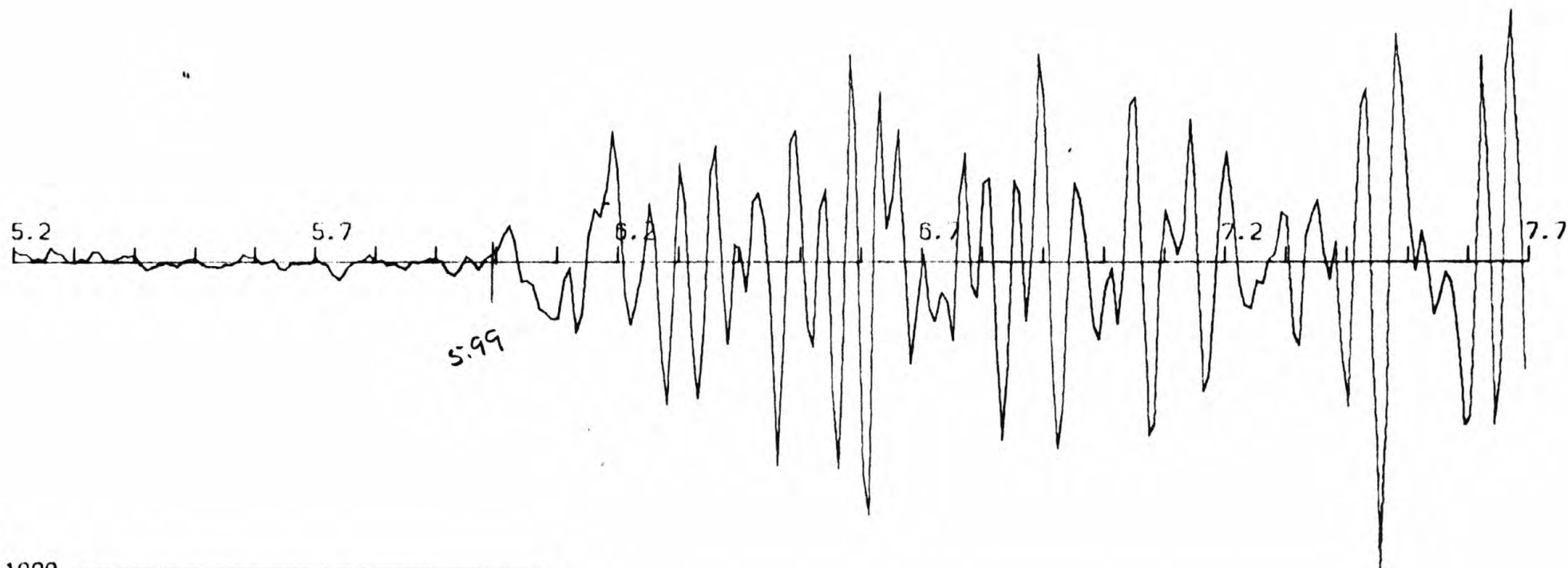
SAUDI ARABIAN REFRACTION PROFILE

SHOT POINT 5

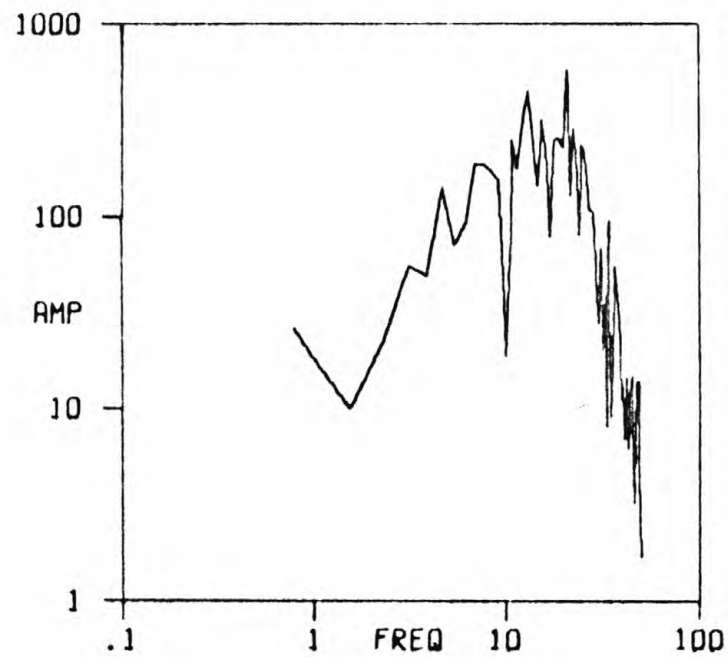
RECORDER LOCATION 960

DISTANCE FROM SHOT (KM) = 34.066

TSCALE (CM/SEC) = 10.0



219



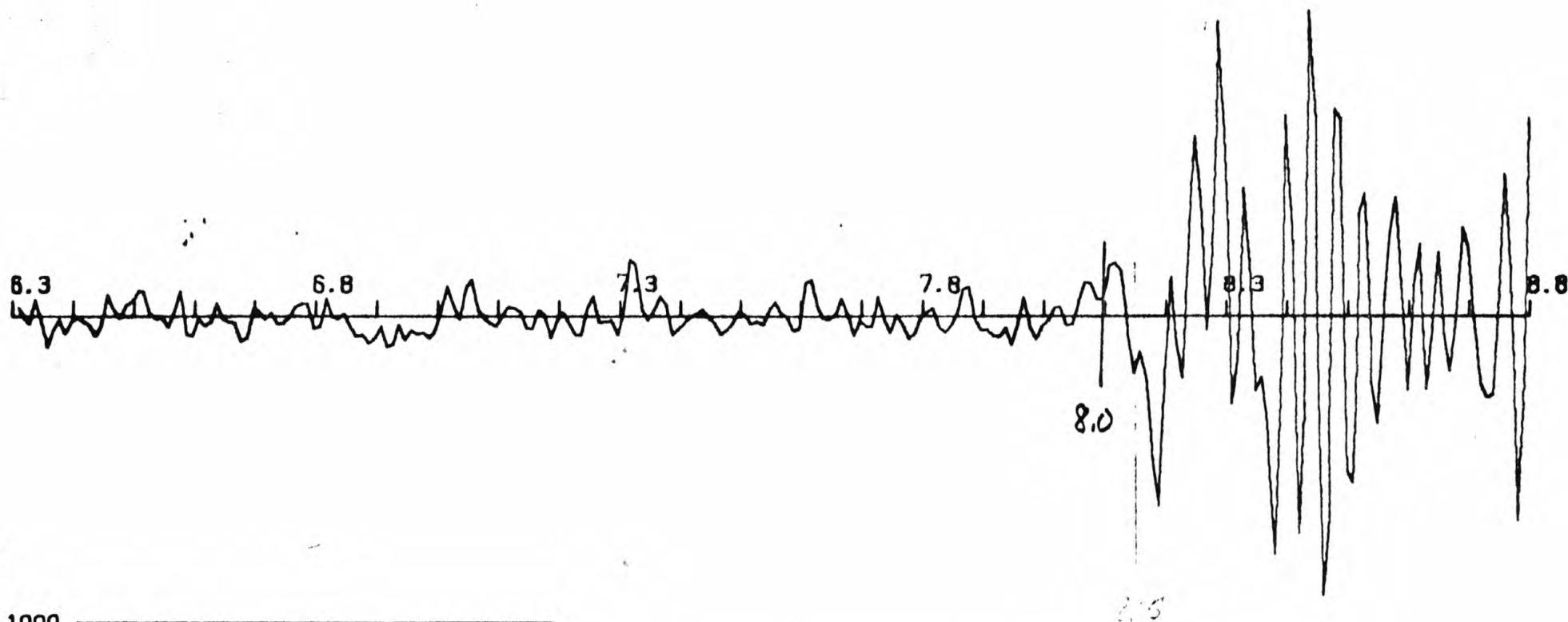
SAUDI ARABIAN REFRACTION PROFILE

SHOT POINT 5

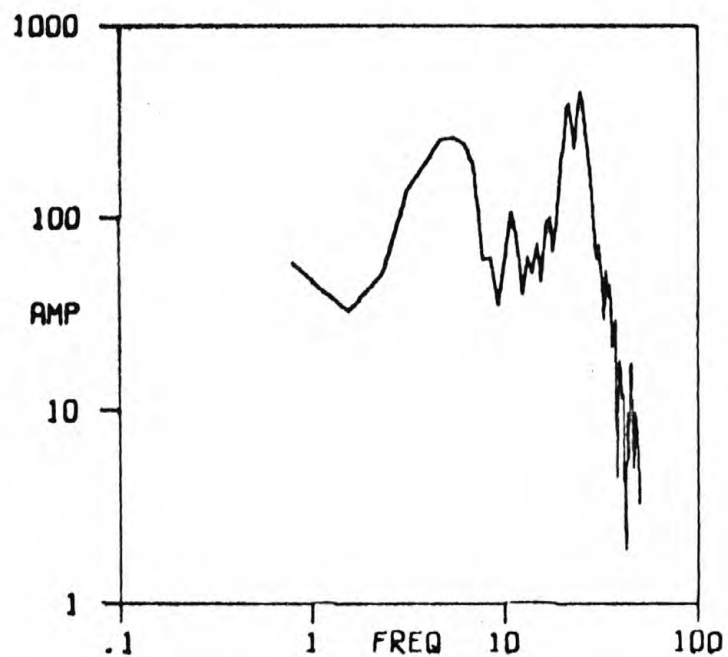
RECORDER LOCATION 959

DISTANCE FROM SHOT (KM) = 36.866

TSCALE (CM/SEC) = 10.0



8/9



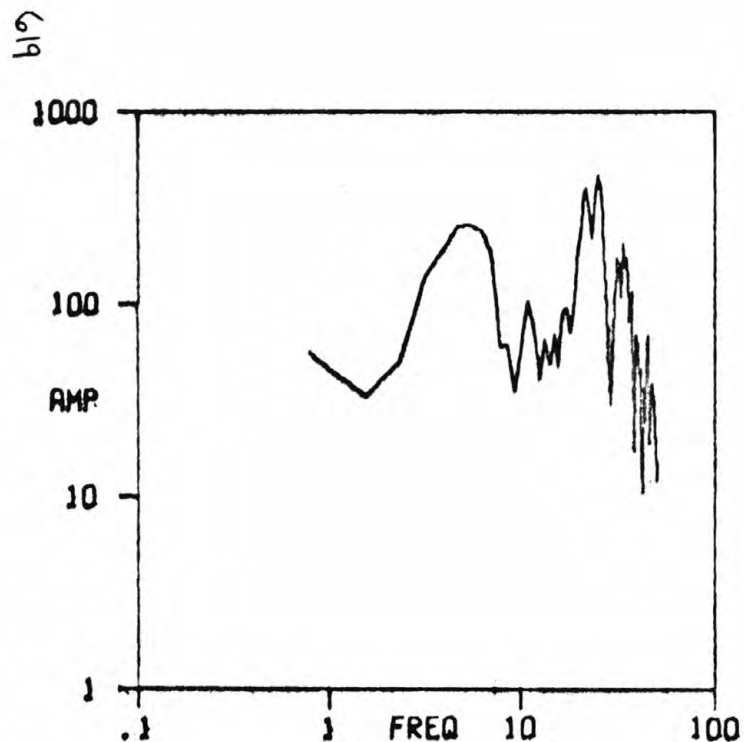
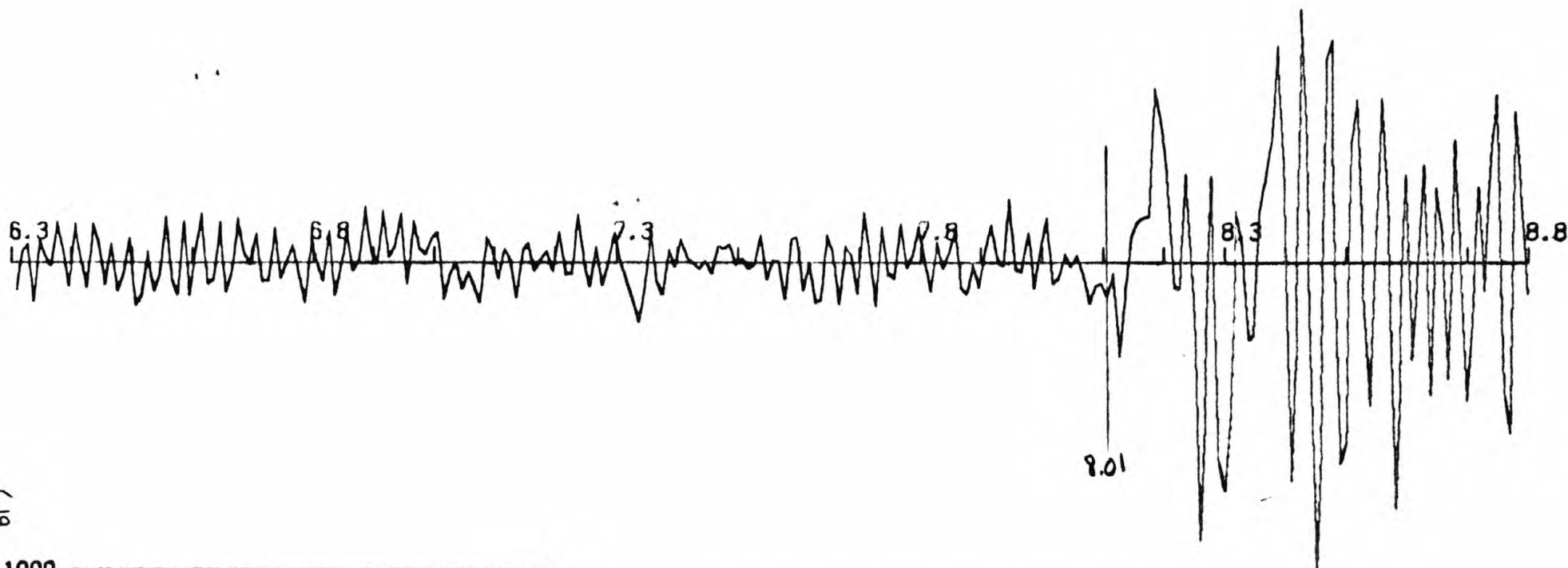
SAUDI ARABIAN REFRACTION PROFILE

SHOT POINT 5

RECORDER LOCATION 955

DISTANCE FROM SHOT (KM) = 49.438

TSCALE (CM/SEC) = 10.0



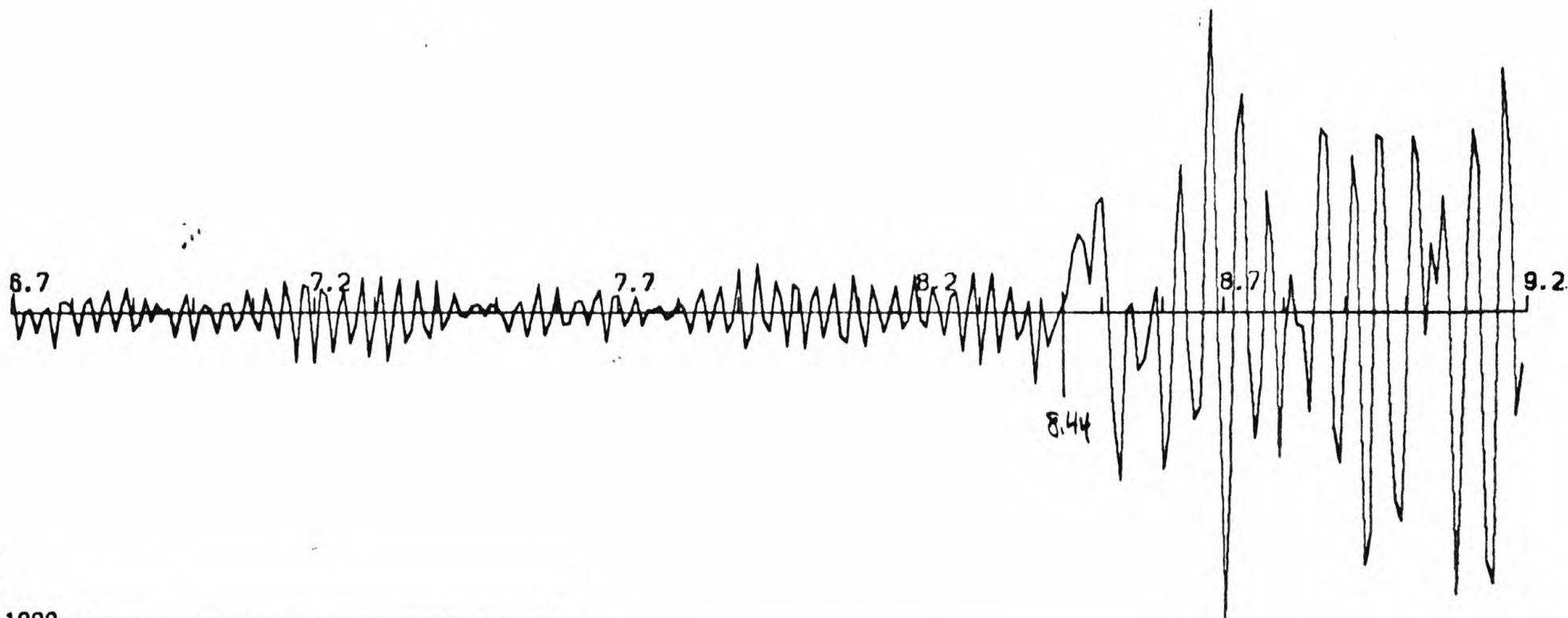
SAUDI ARABIAN REFRACTION PROFILE-30-DLL

SHOT POINT. 5

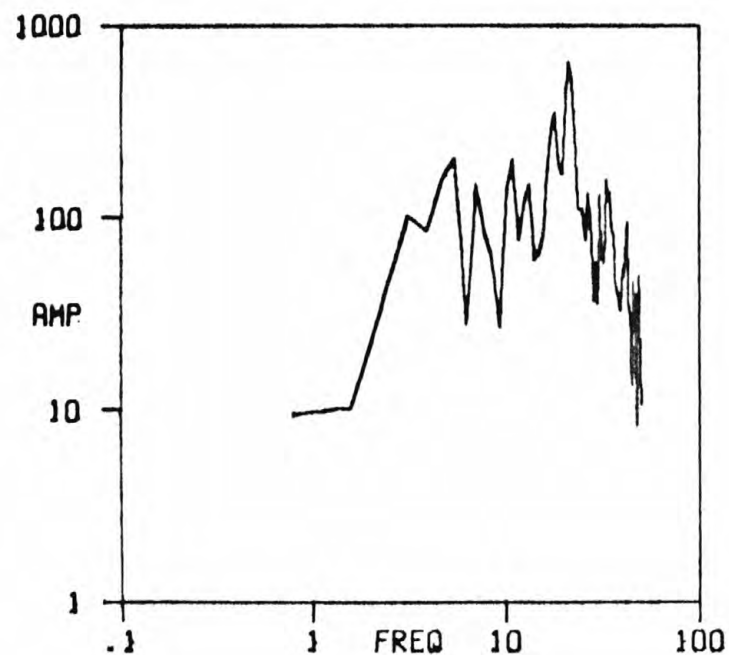
RECORDER LOCATION 955

DISTANCE FROM SHOT (KM). = 49.438

TSCALE (CM/SEC). = 10.0



626



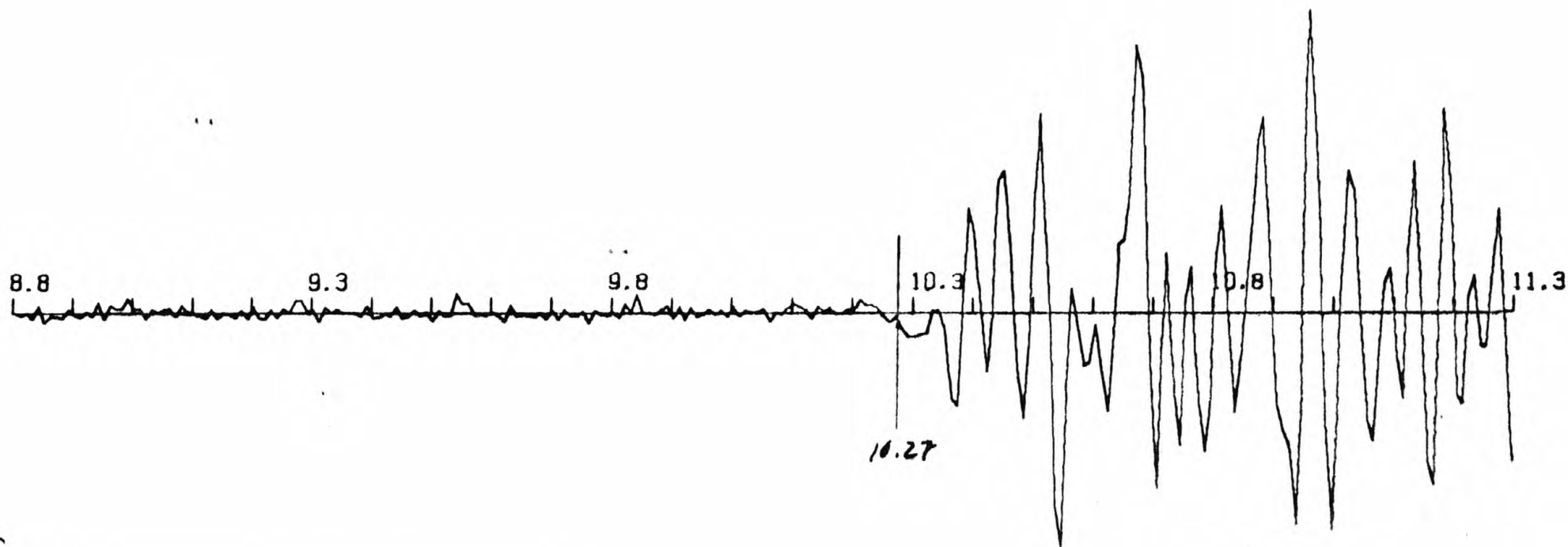
SAUDI ARABIAN REFRACTION PROFILE-30-DLL.

SHOT POINT 5

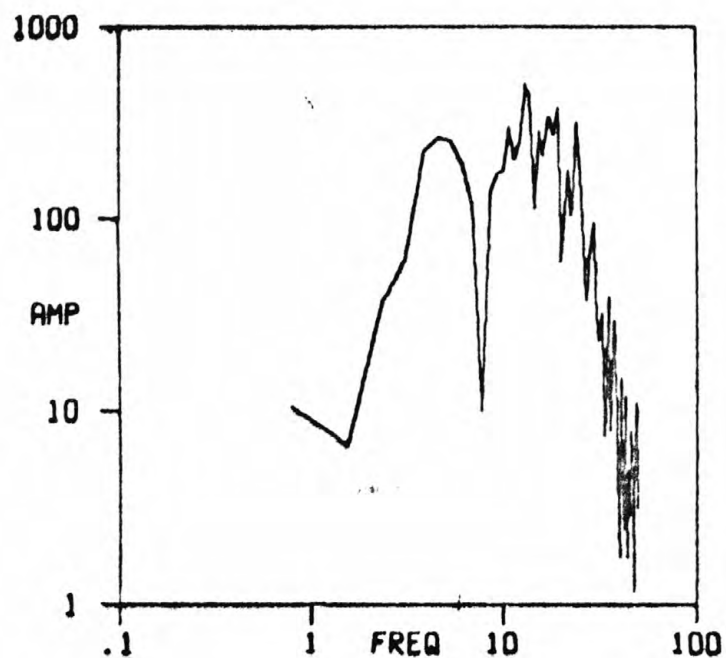
RECORDER LOCATION 624

DISTANCE FROM SHOT (KM). = 51.742

TSCALE (CM/SEC). = 10.0



621



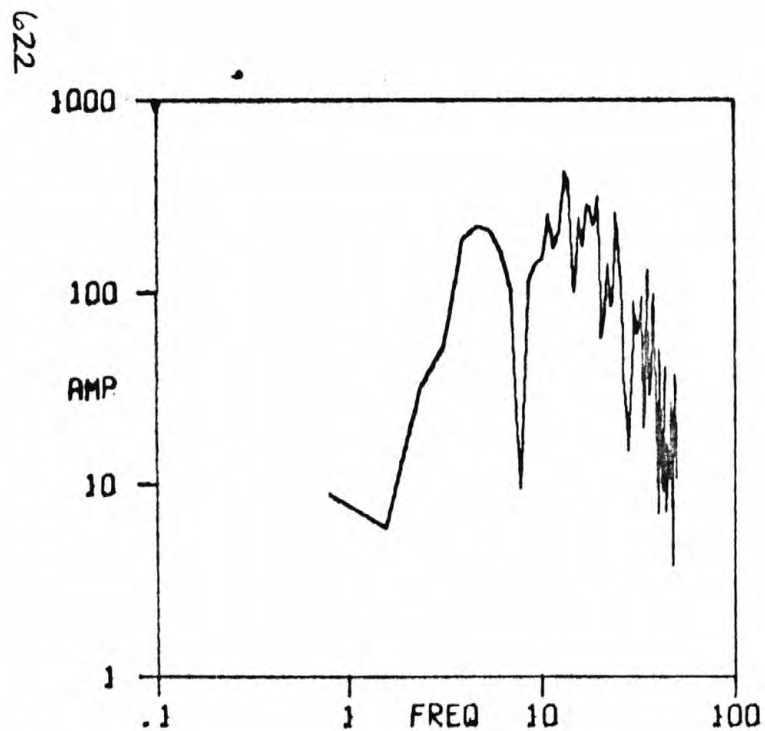
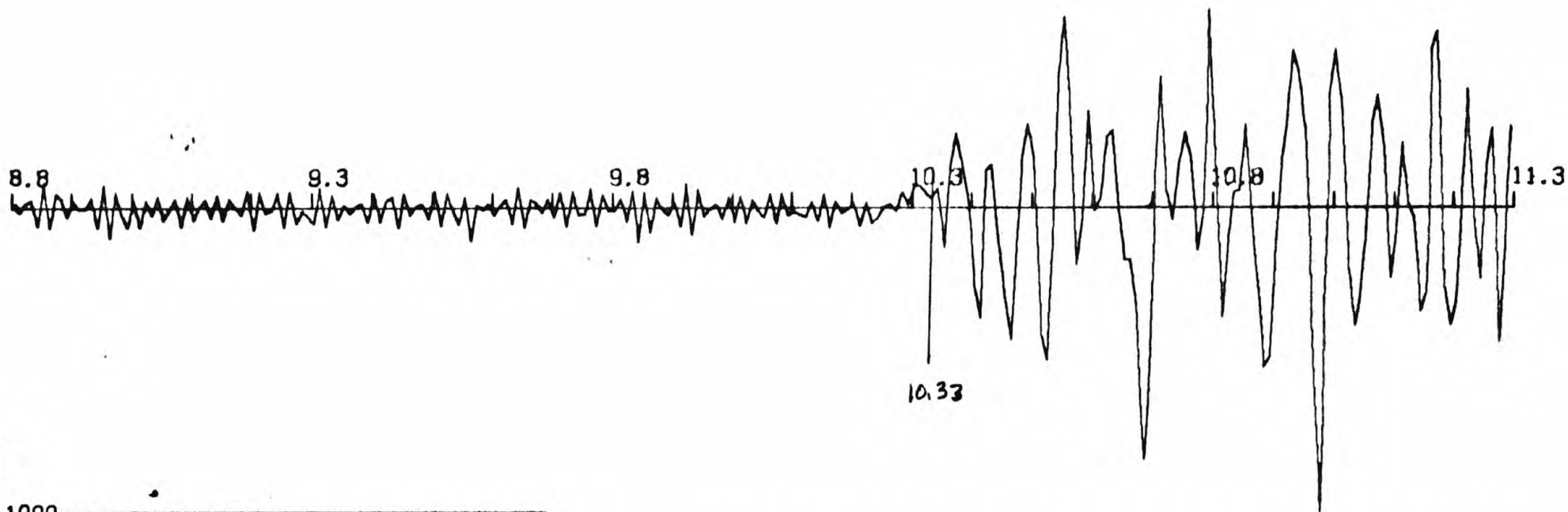
SAUDI ARABIAN REFRACTION PROFILE

SHOT POINT 5

RECORDER LOCATION 620

DISTANCE FROM SHOT (KM) = 64.238

TSCALE (CM/SEC) = 10.0



SAUDI ARABIAN REFRACTION PROFILE-30-DLL

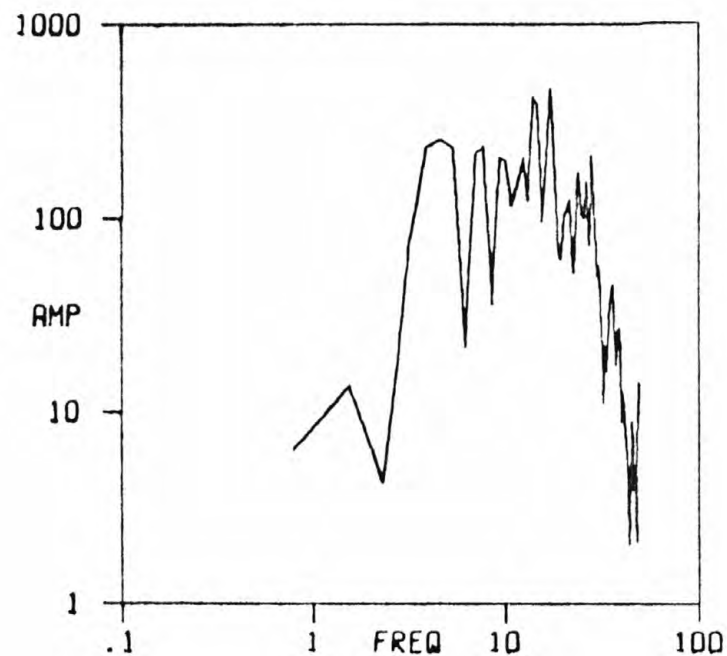
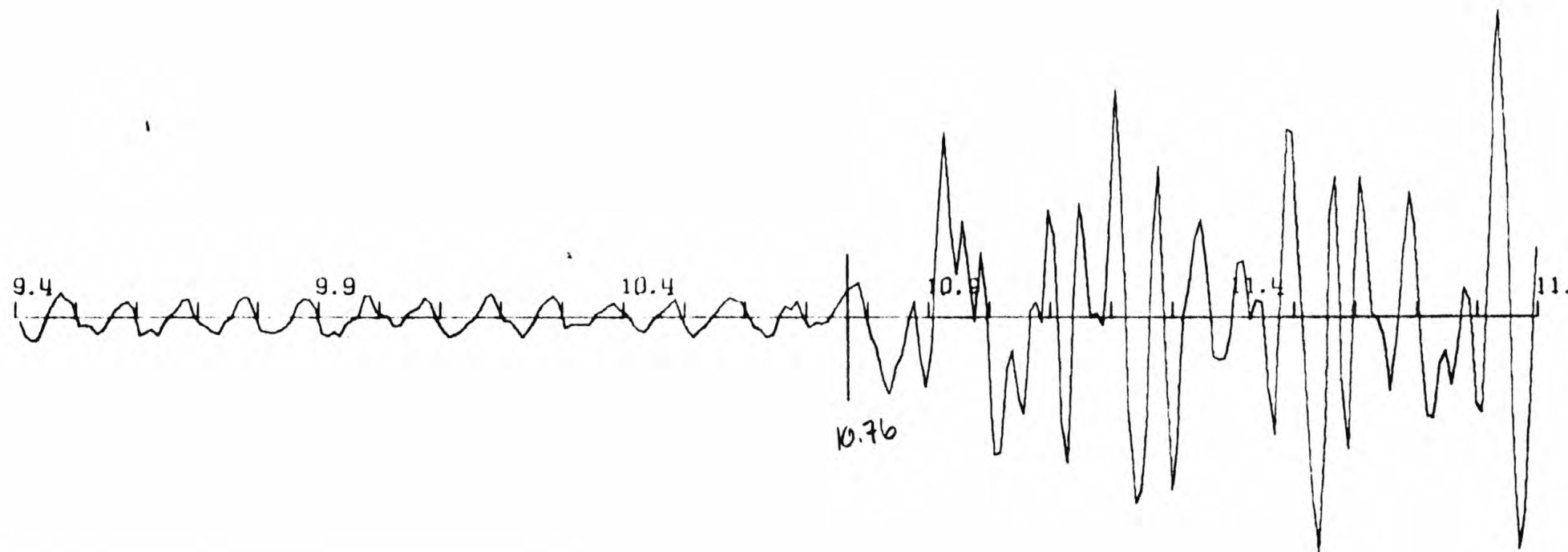
SHOT POINT 5

RECORDER LOCATION 620

DISTANCE FROM SHOT (KM) = 64.238

TSCALE (CM/SEC) = 10.0

623



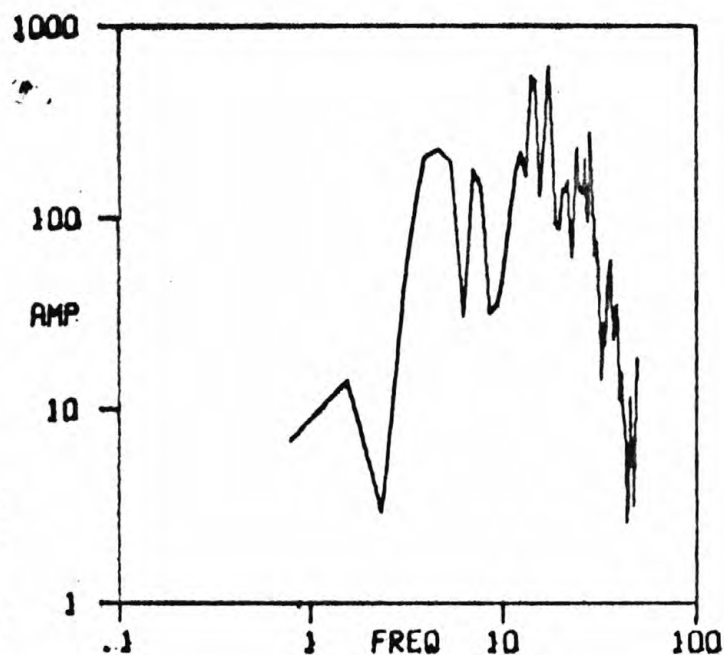
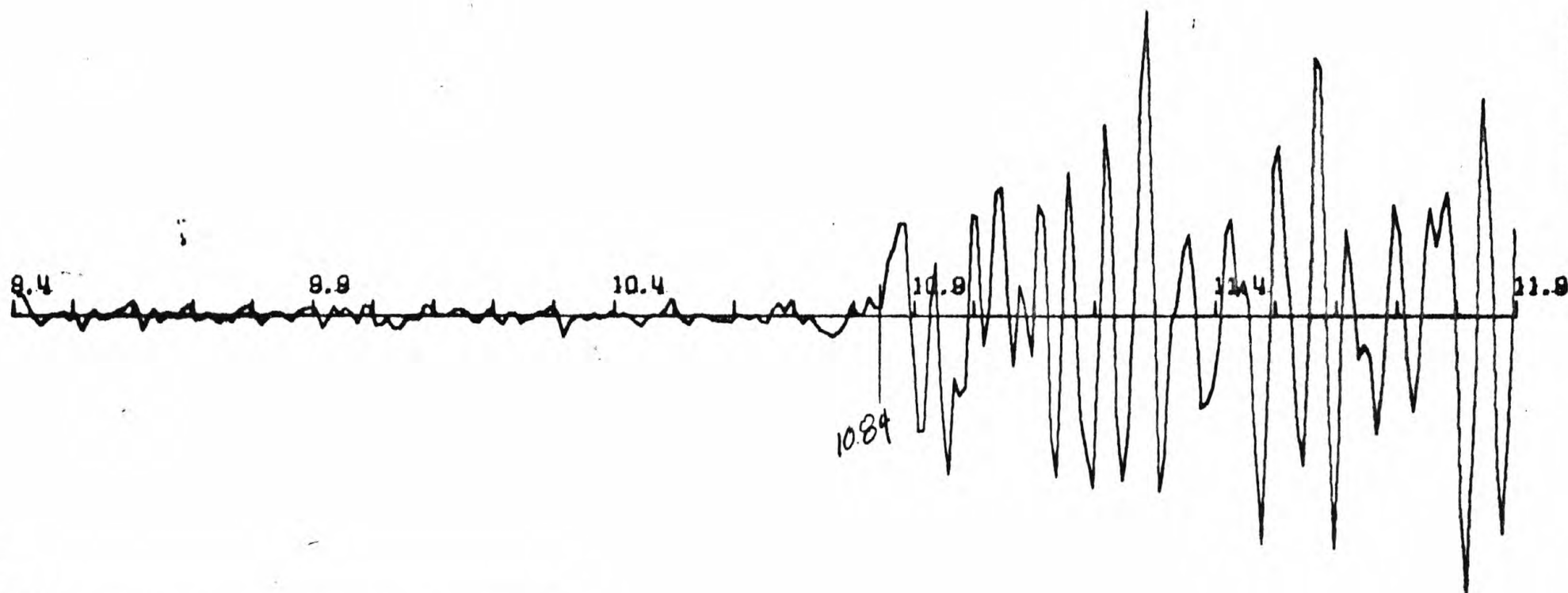
SAUDI ARABIAN REFRACTION PROFILE

SHOT POINT 5

RECORDER LOCATION 618

DISTANCE FROM SHOT (KM) = 67.971

TSCALE (CM/SEC) = 10.0



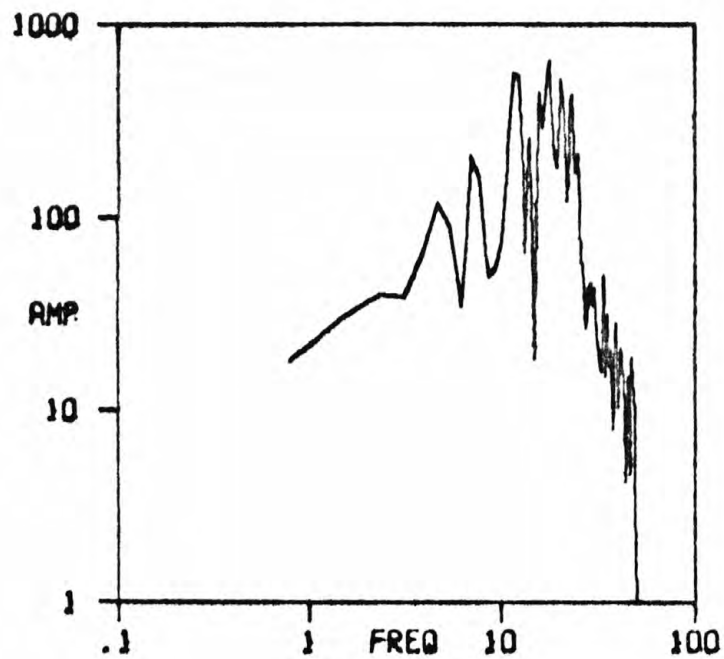
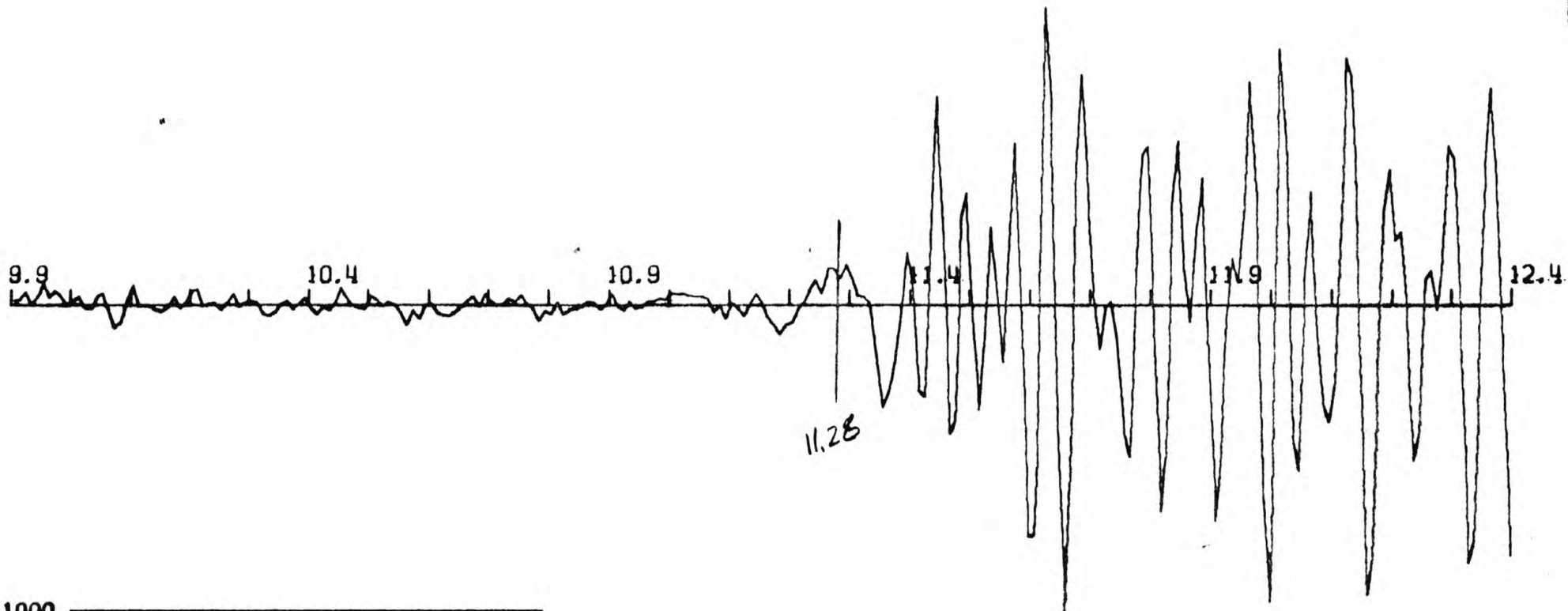
SAUDI ABABIAN REFRACTION PROFILE 10HP-D1/

SHOT POINT 5

RECORDER LOCATION 618

DISTANCE FROM SHOT (KM) = 67.971

TSCALE (CM/SEC) = 10.0



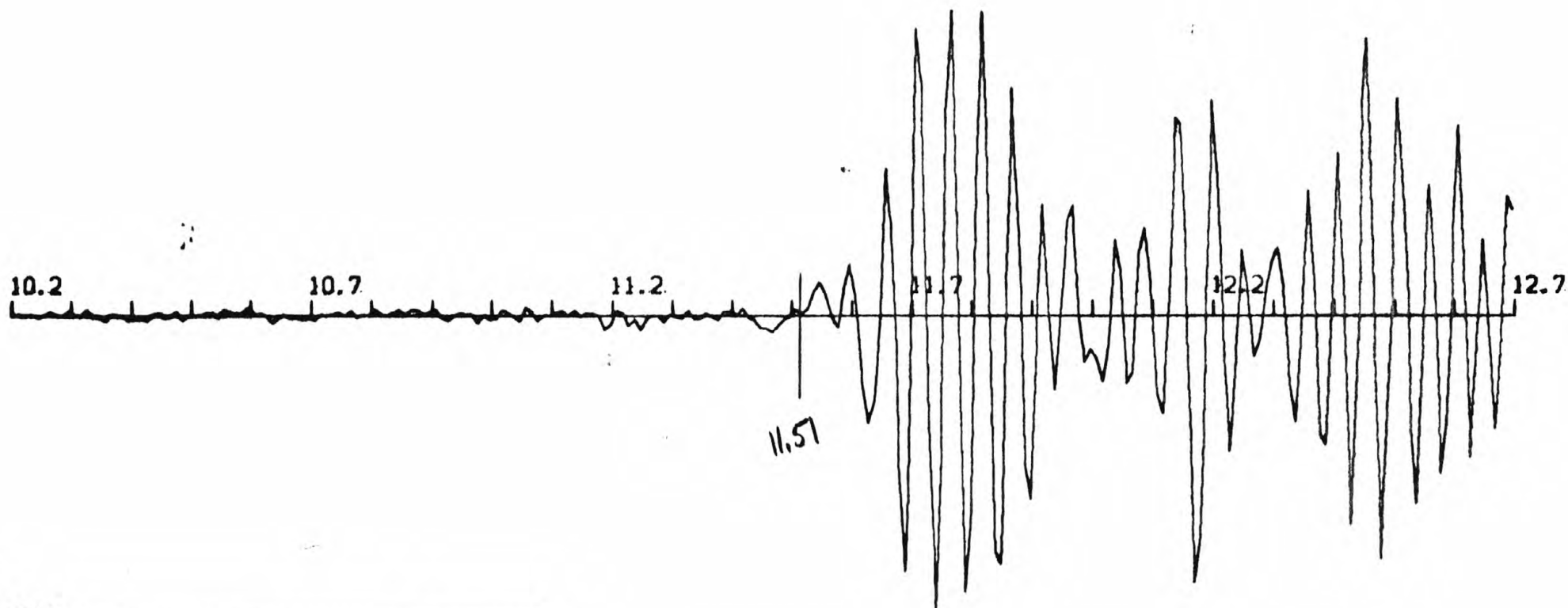
SAUDI ABABIAN REFRACTION PROFILE 10MP-011

SHOT POINT 5

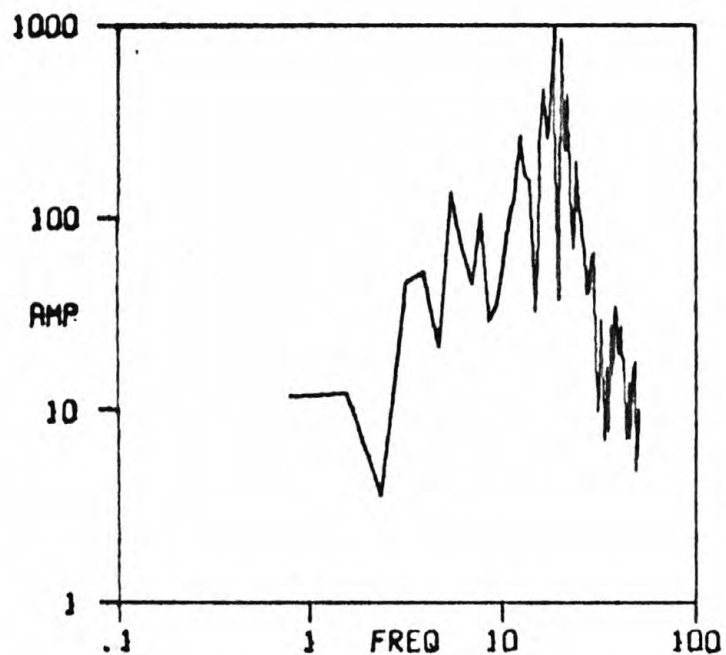
RECORDER LOCATION 617

DISTANCE FROM SHOT (KM) = 70.844

TSCALE (CM/SEC) = 10.0



626



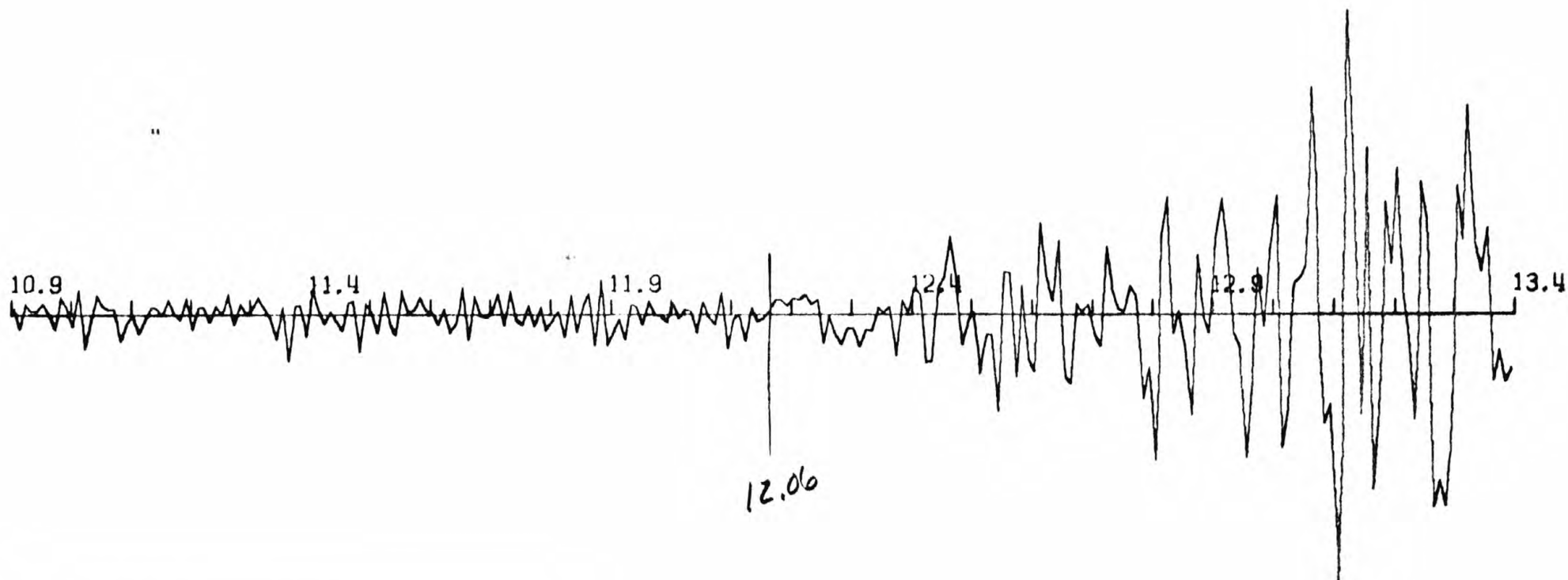
SAUDI ABABIAN REFRACTION PROFILE 10HP-D11

SHOT POINT 5

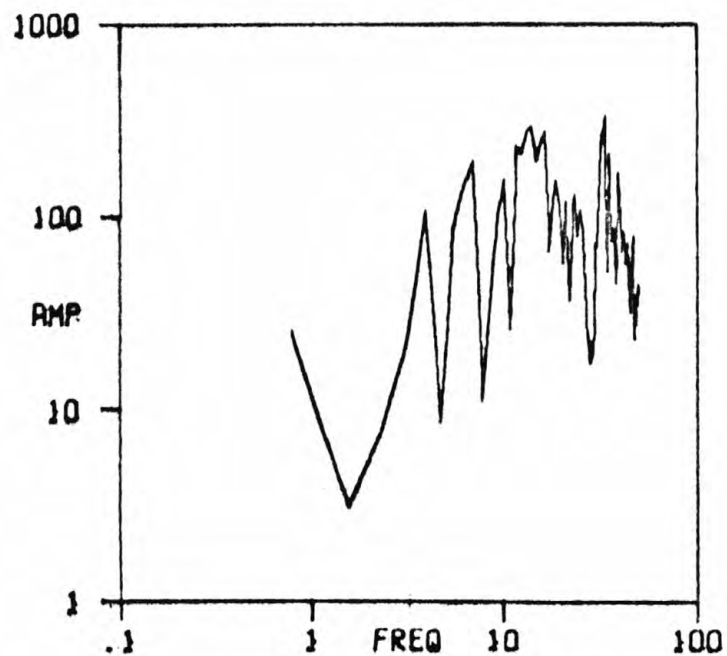
RECORDER LOCATION 616

DISTANCE FROM SHOT. (KM) = 72.895

TSCALE (CM/SEC) = 10.0



627



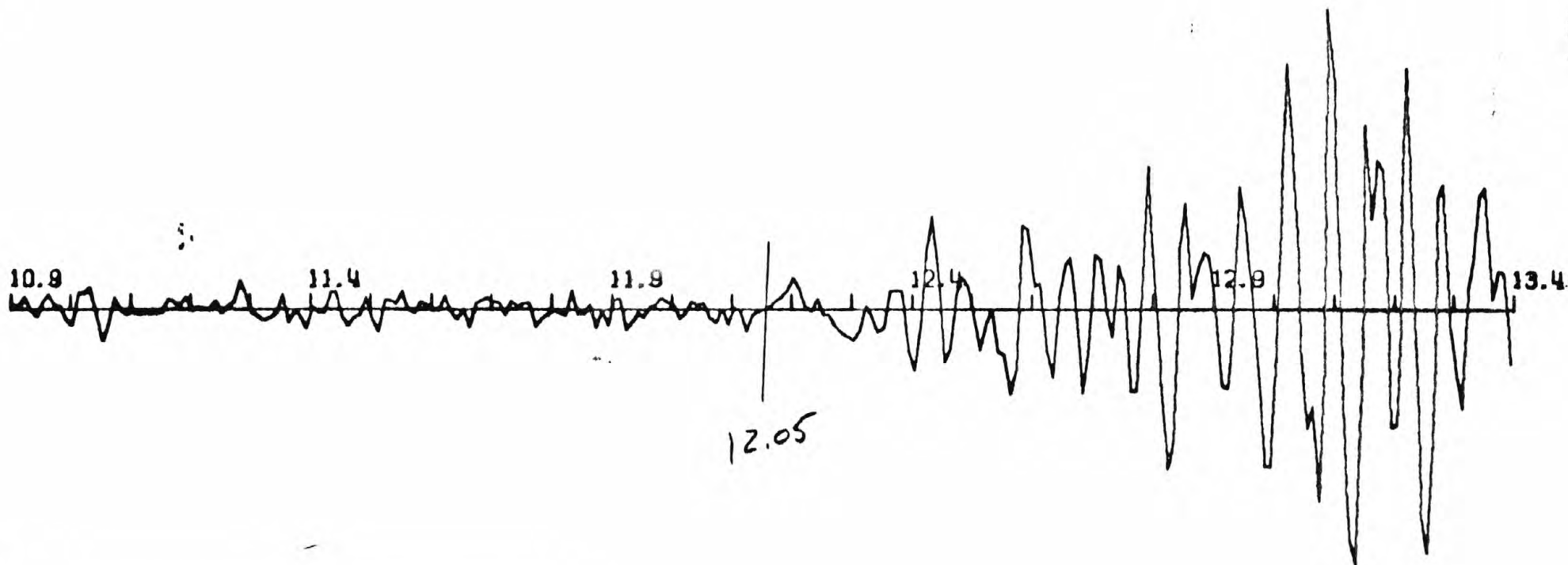
SAUDI ARABIAN REFRACTION PROFILE-30-DLL

SHOT POINT 5

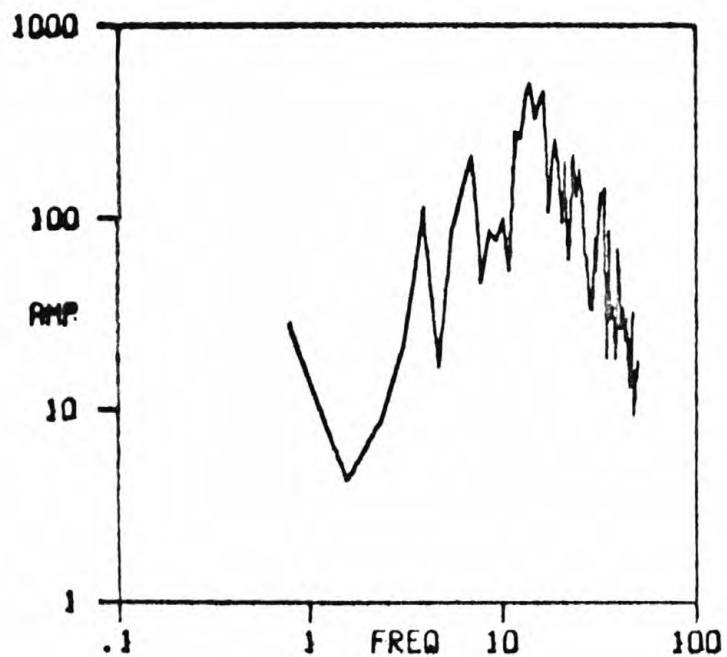
RECORDER LOCATION 614.

DISTANCE FROM SHOT. (KM) = 76.838

TSCALE (CM/SEC) = 10.0



628



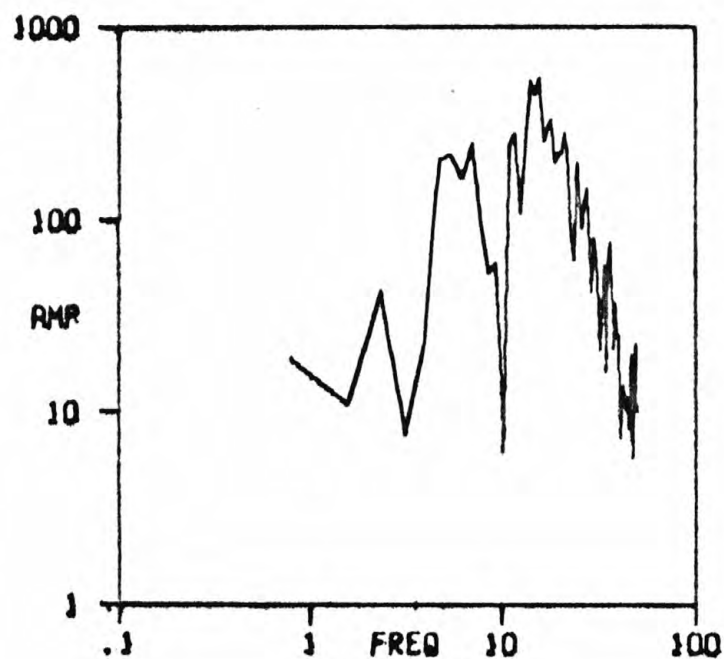
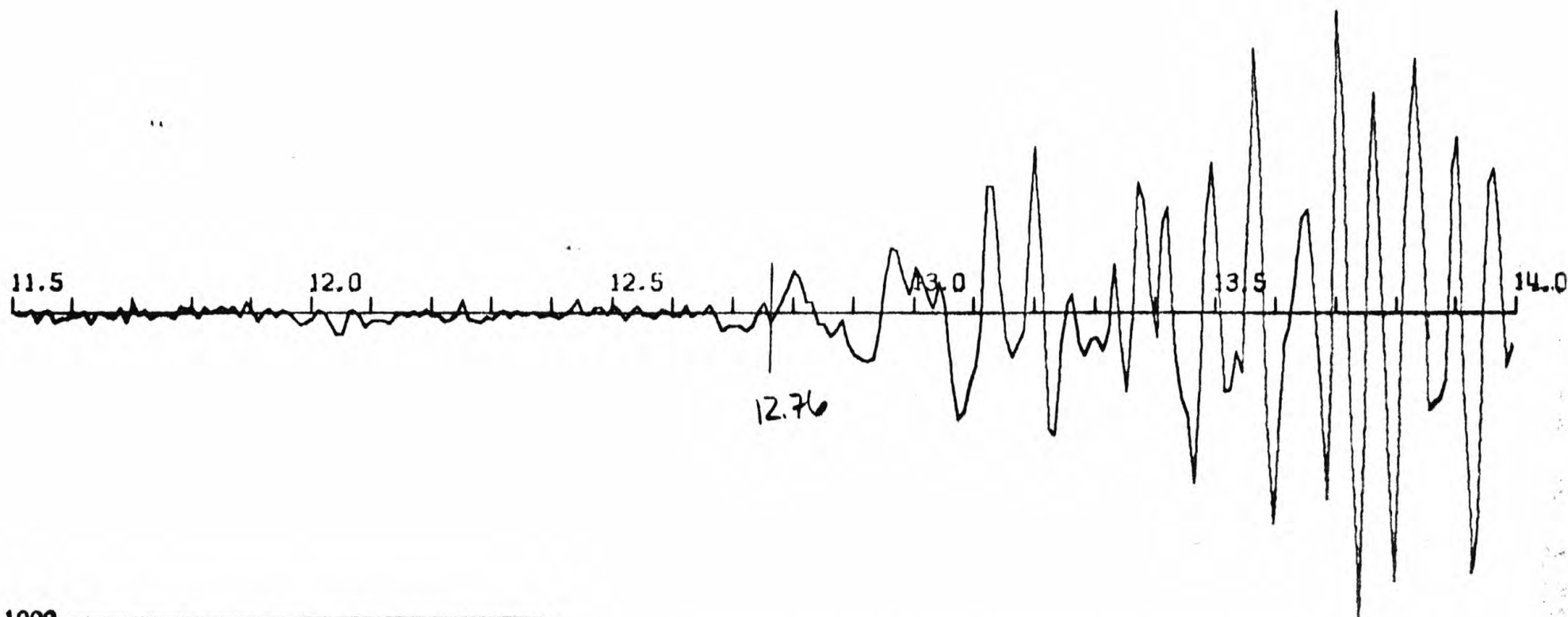
SAUDI ABABIAN REFRACTION PROFILE 10HP-D11

SHOT. POINT. 5

RECORDER. LOCATION 614.

DISTANCE FROM SHOT (KM) = 76.838

TSCALE (CM/SEC) = 10.0



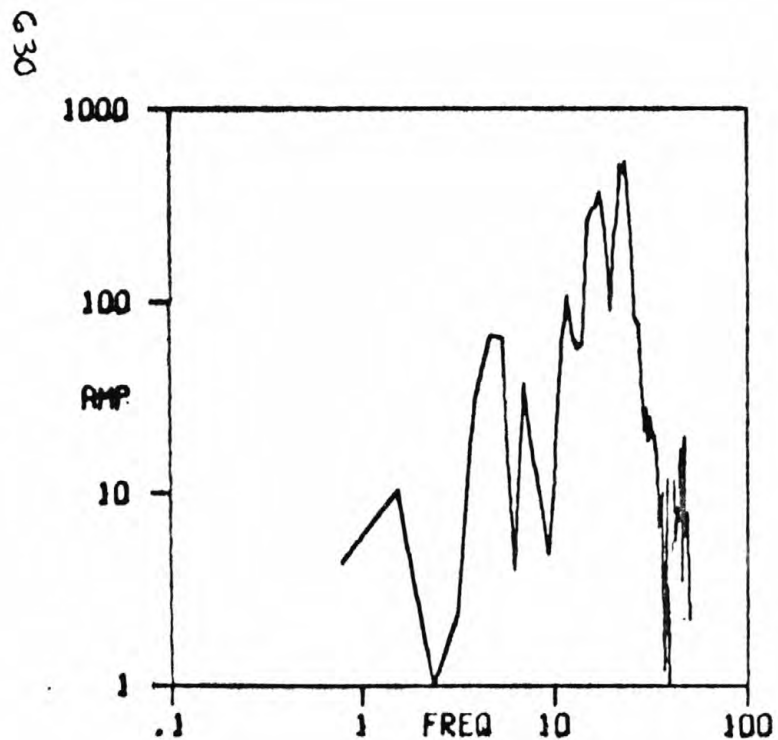
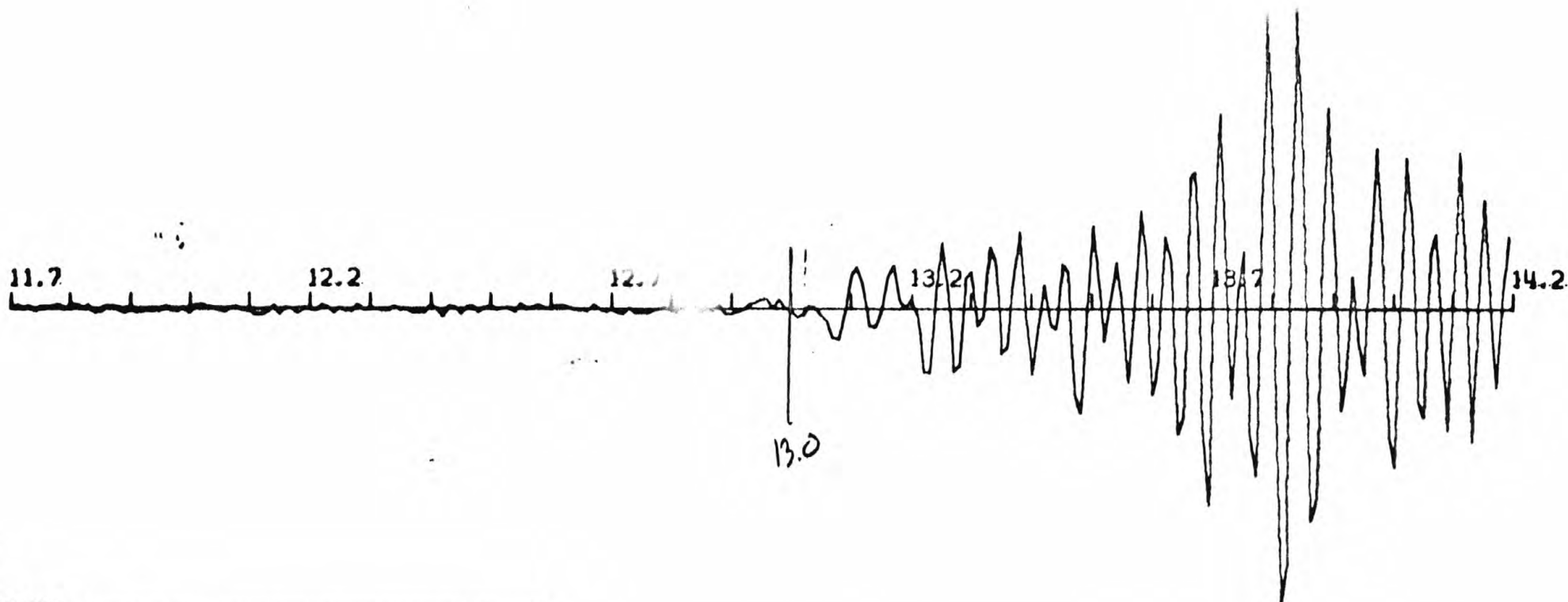
SAUDI ABABIAN REFRACTION PROFILE 10HP-D11

SHOT. POINT. 5

RECORDER LOCATION 612.

DISTANCE FROM SHOT. (KM.) = 80.781

TSCALE (CM/SEC) = 10.0



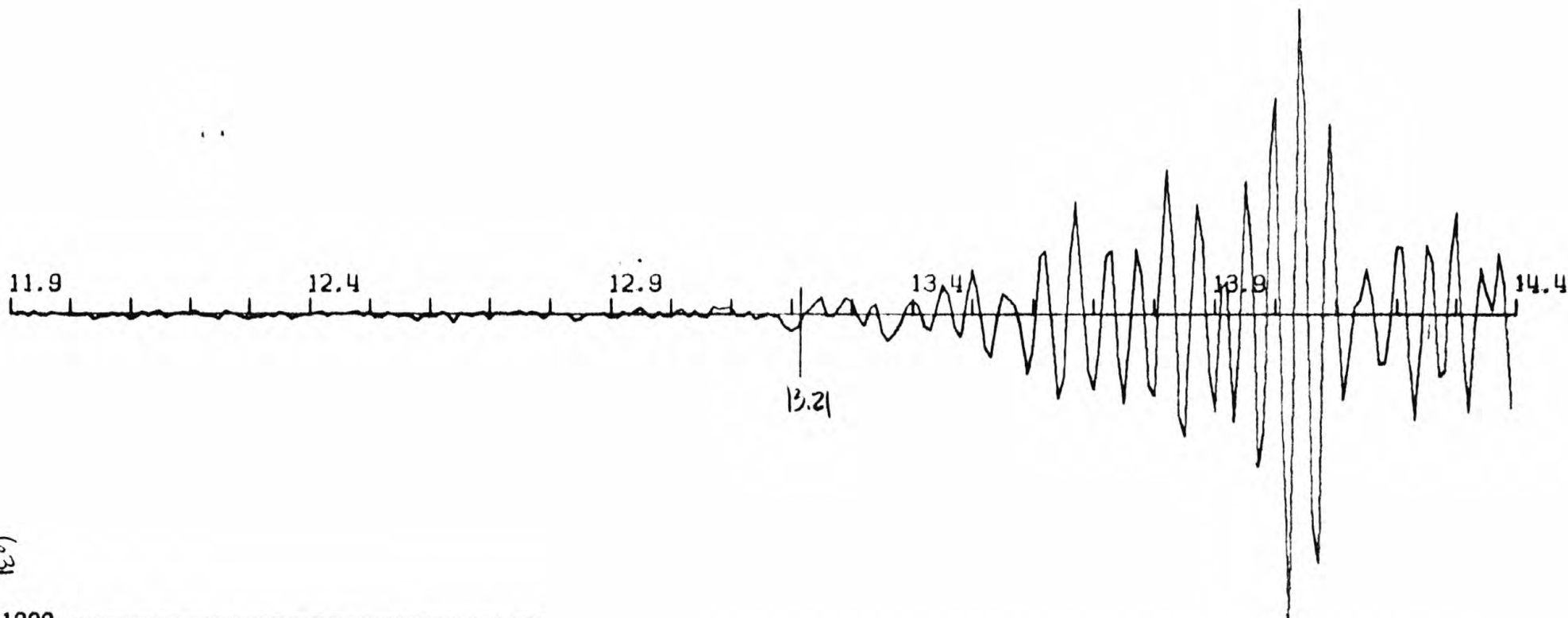
SAUDI ABABIAN REFRACTION PROFILE 10HP-D11

SHOT POINT 5

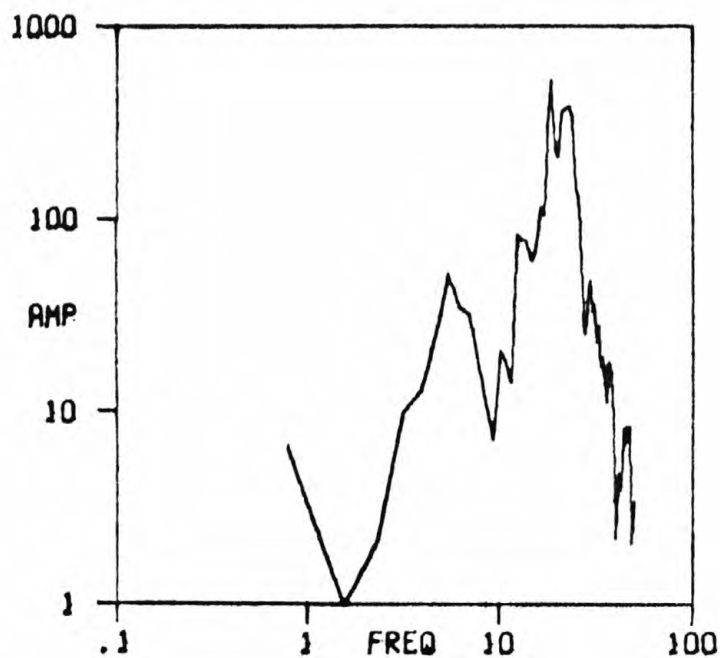
RECORDER LOCATION 611

DISTANCE FROM SHOT (KM) = 81.860

TSCALE (CM/SEC) = 10.0



631



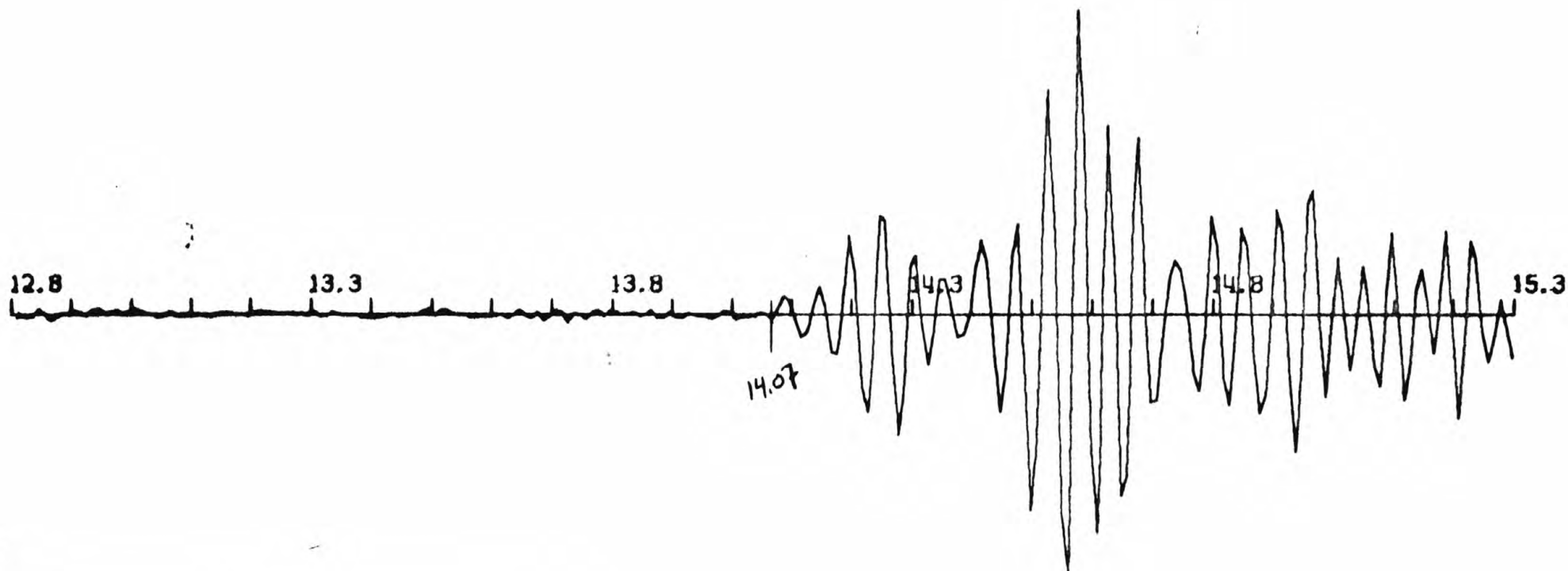
SAUDI ABABIAN REFRACTION PROFILE 10HP-011

SHOT POINT 5

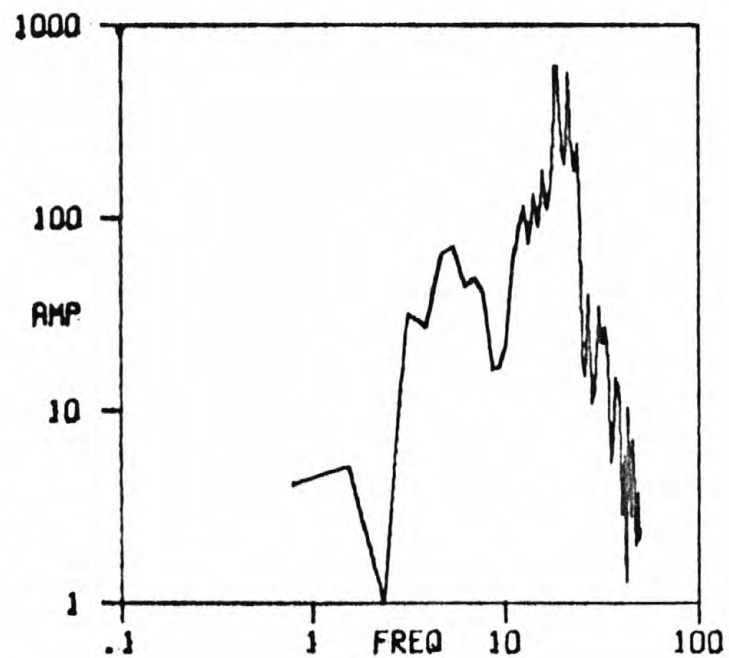
RECORDER LOCATION 610

DISTANCE FROM SHOT (KM) = 82.815

TSCALE (CM/SEC) = 10.0



632



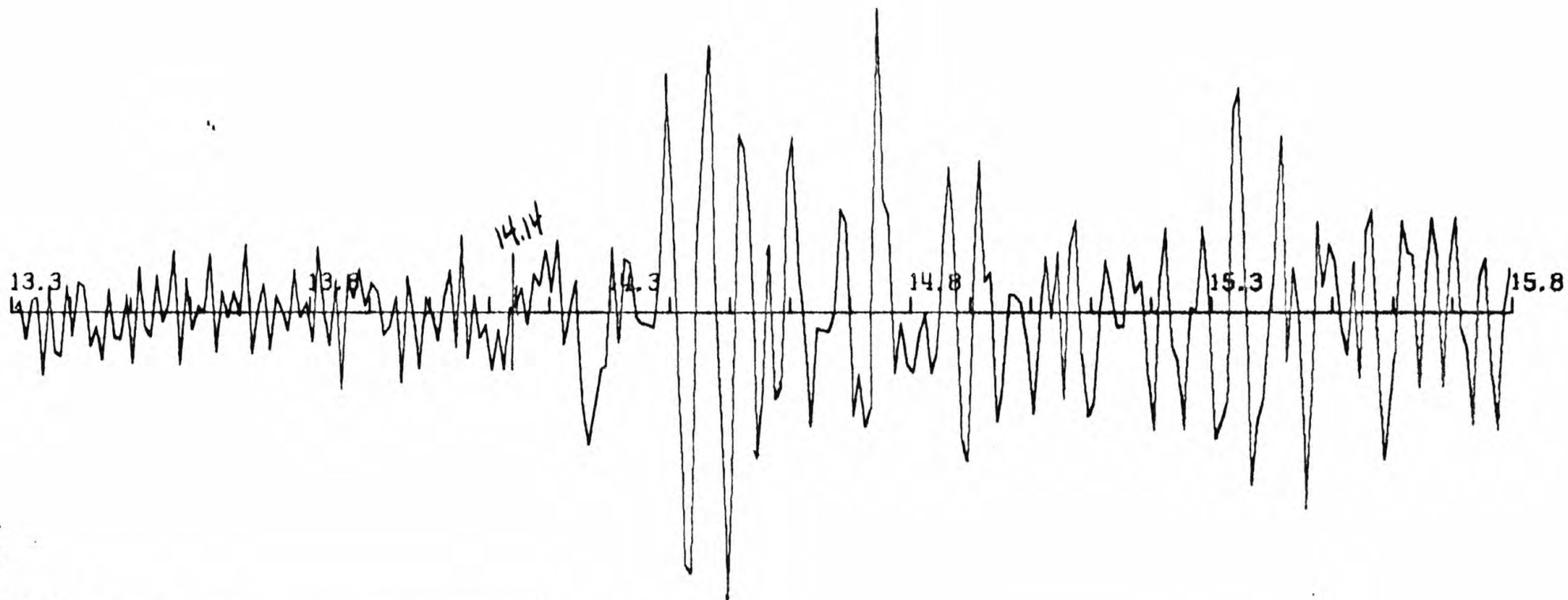
SAUDI ABABIAN REFRACTION PROFILE 10HP-D11

SHOT POINT 5

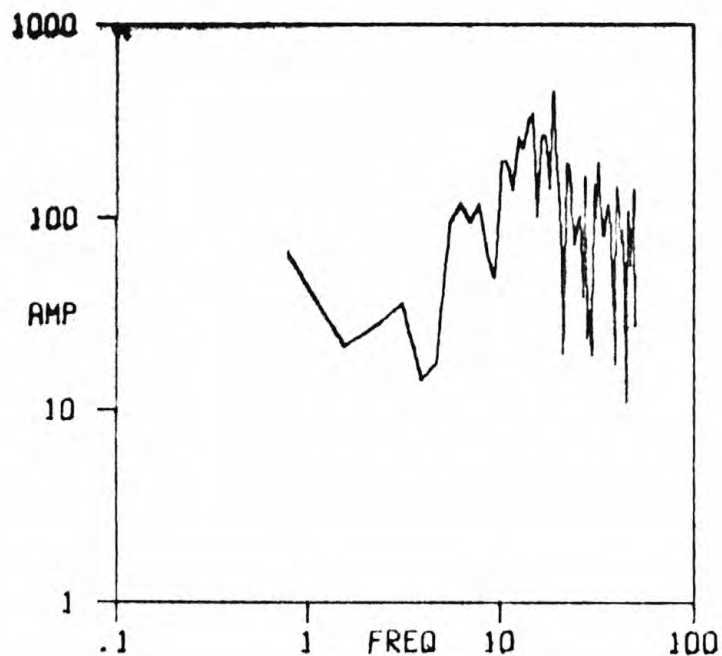
RECORDER LOCATION 607

DISTANCE FROM SHOT (KM) = 88.615

TSCALE (CM/SEC) = 10.0



633



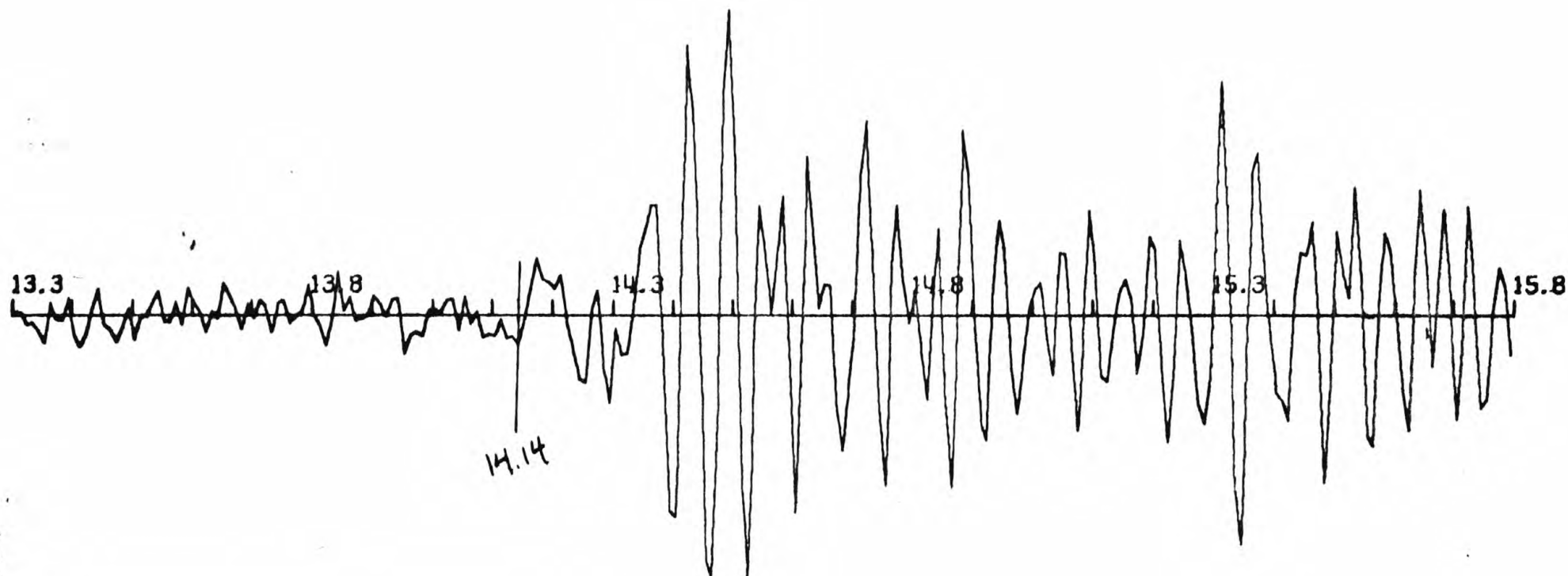
SAUDI ARABIAN REFRACTION PROFILE-30-DLL

SHOT POINT 5

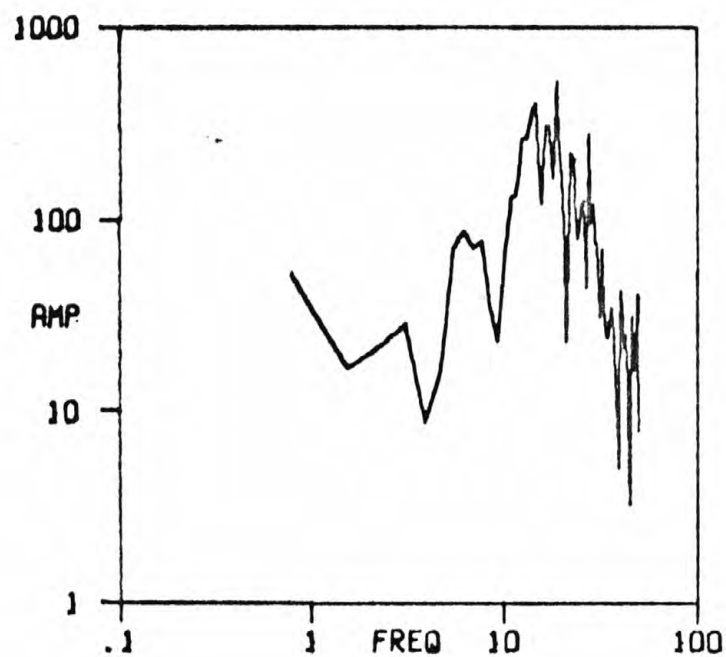
RECORDER LOCATION 605

DISTANCE FROM SHOT (KM) = 91.420

TSCALE (CM/SEC) = 10.0



634



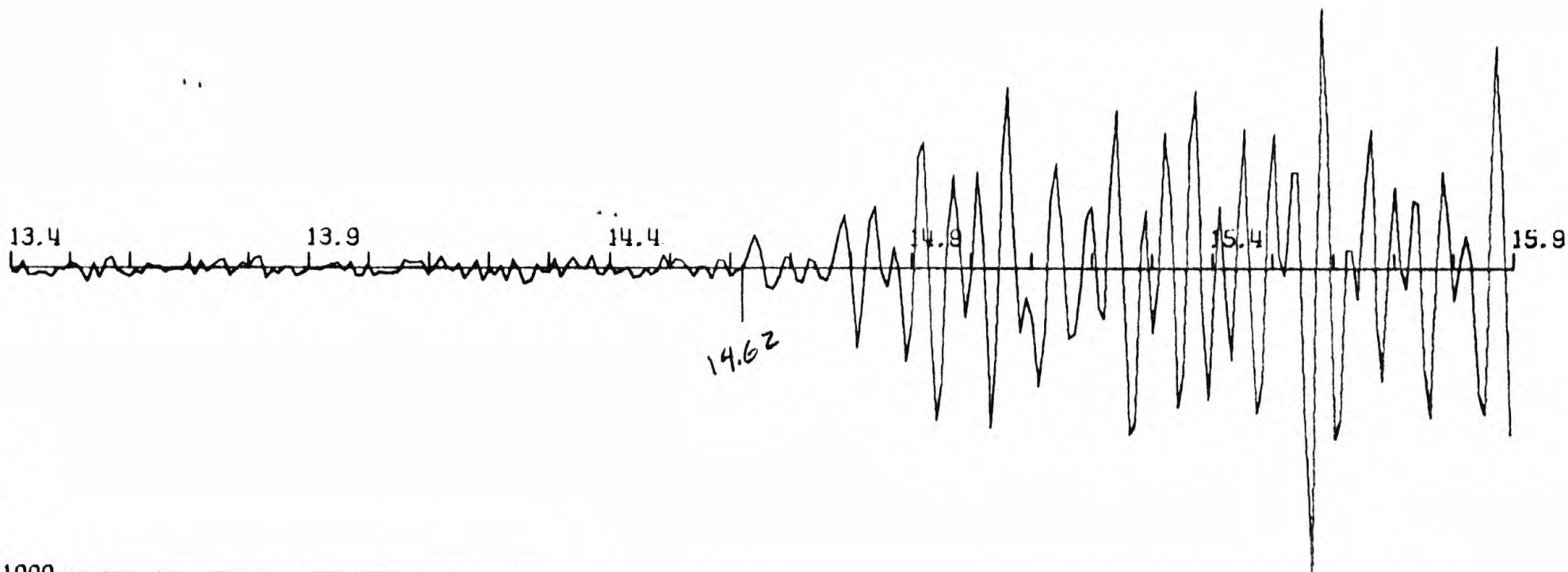
SAUDI ABABIAN REFRACTION PROFILE 10HP-D11

SHOT POINT 5

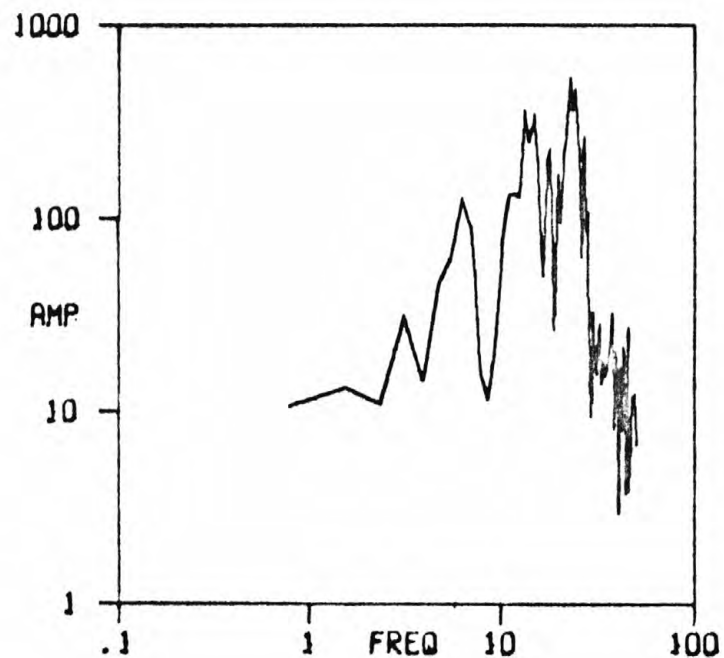
RECORDER LOCATION 605

DISTANCE FROM SHOT (KM) = 91.420

TSCALE (CM/SEC). = 10.0



635



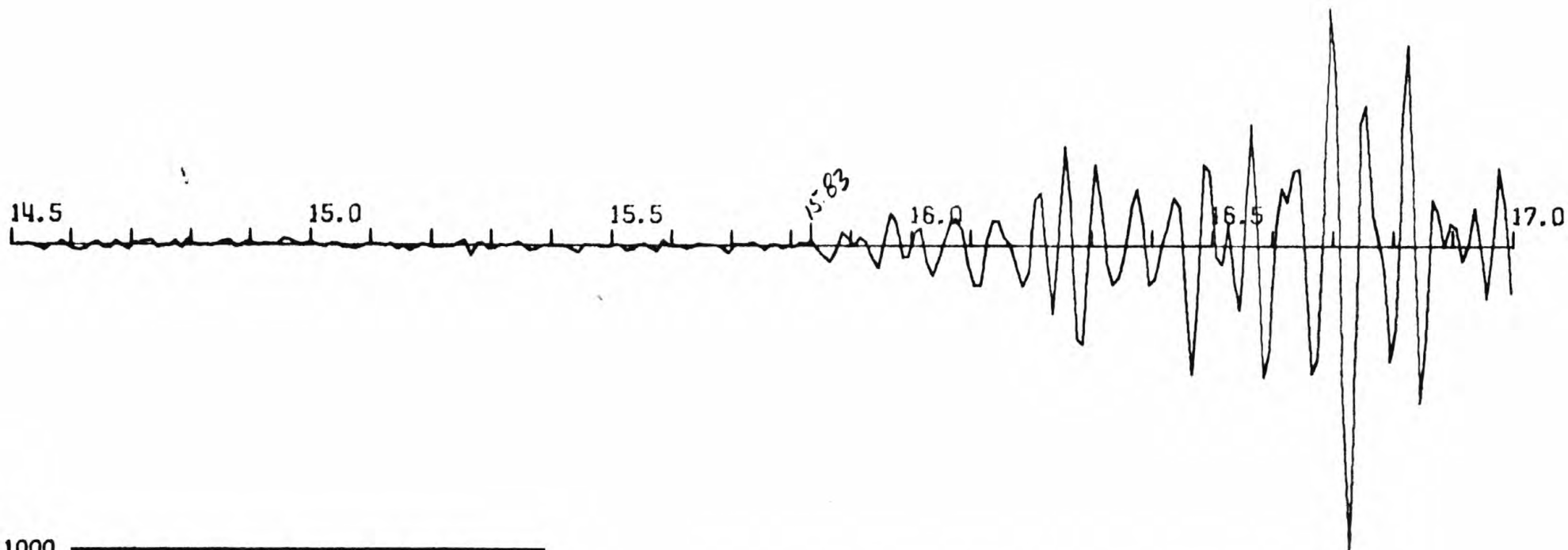
SAUDI ABABIAN REFRACTION PROFILE 10HP-D11

SHOT POINT 5

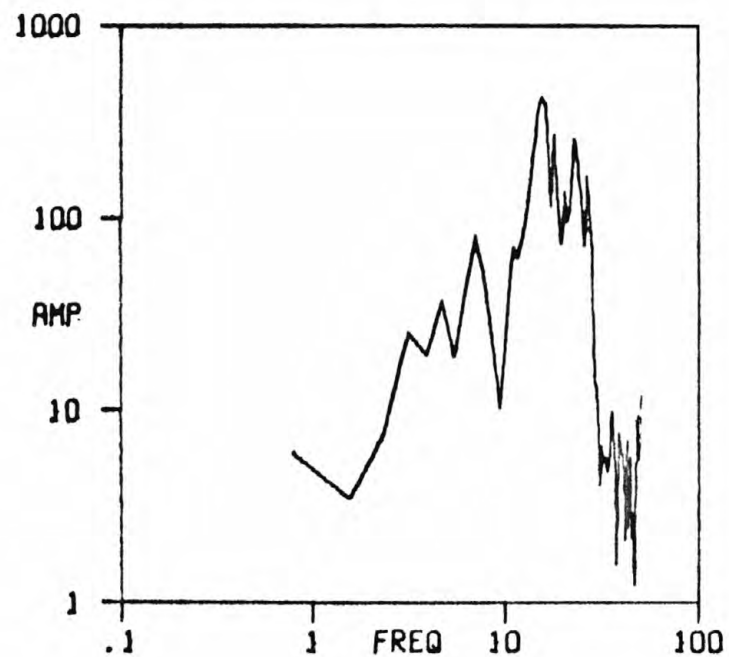
RECORDER LOCATION 604

DISTANCE FROM SHOT (KM) = 92.238

TSCALE (CM/SEC) = 10.0



636



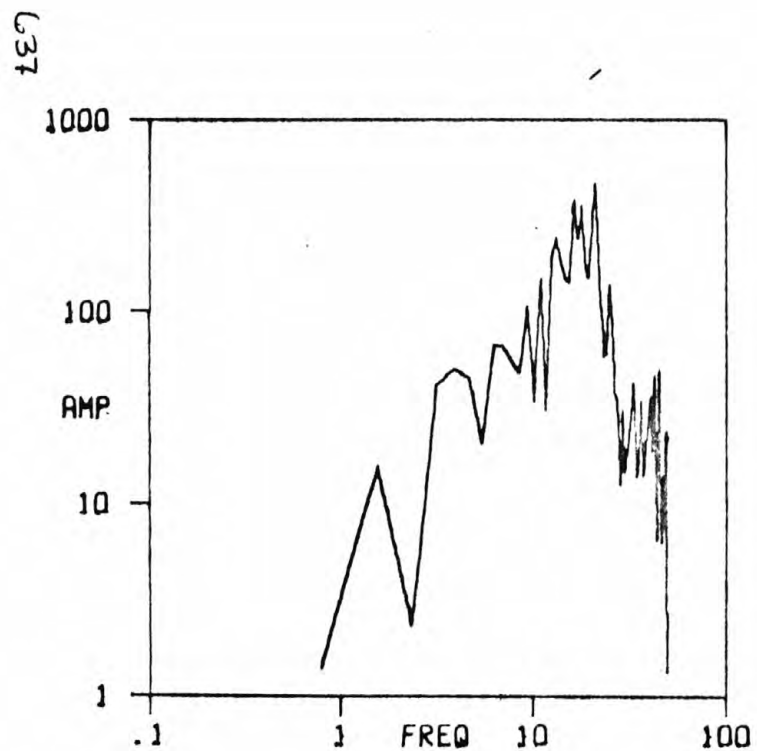
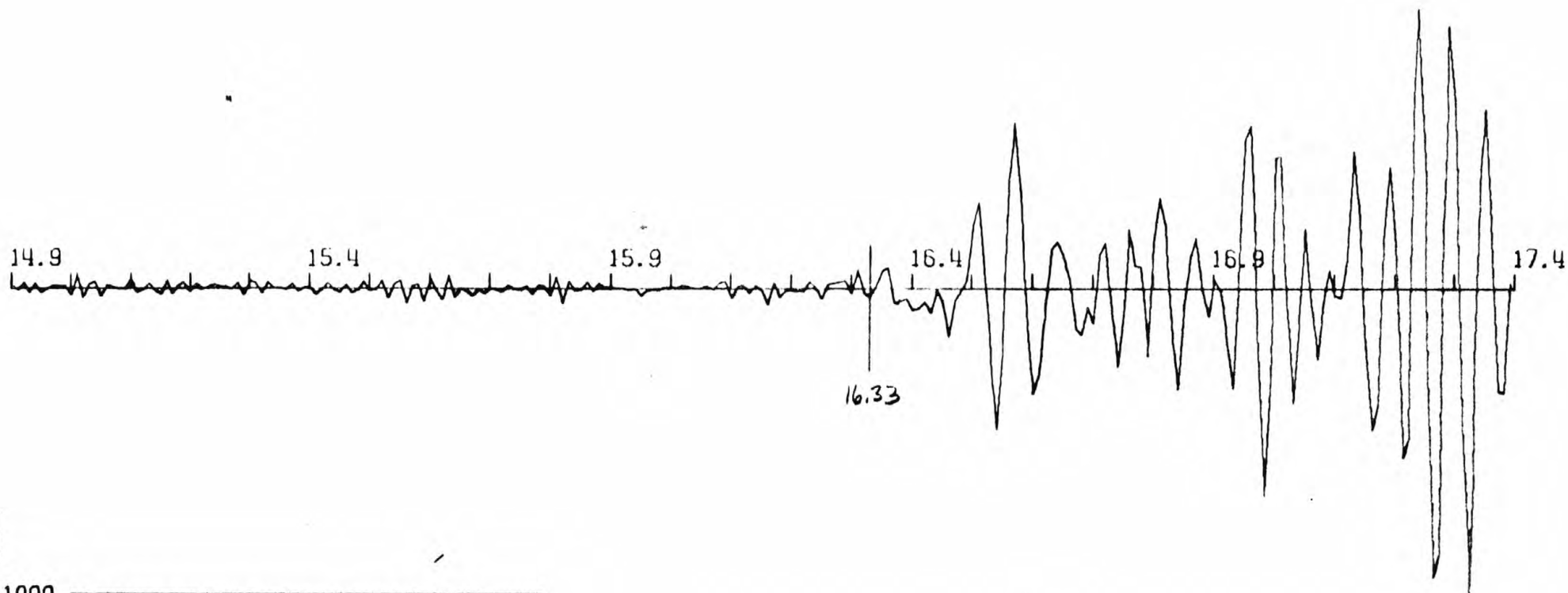
SAUDI ABABIAN REFRACTION PROFILE 10HP-D11

SHOT POINT 5

RECORDER LOCATION 600

DISTANCE FROM SHOT (KM) = 98.750

TSCALE (CM/SEC) = 10.0



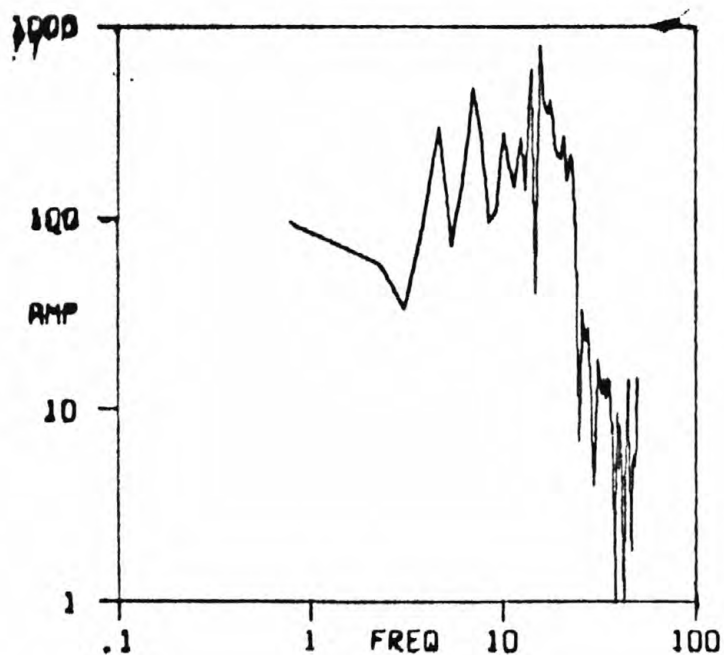
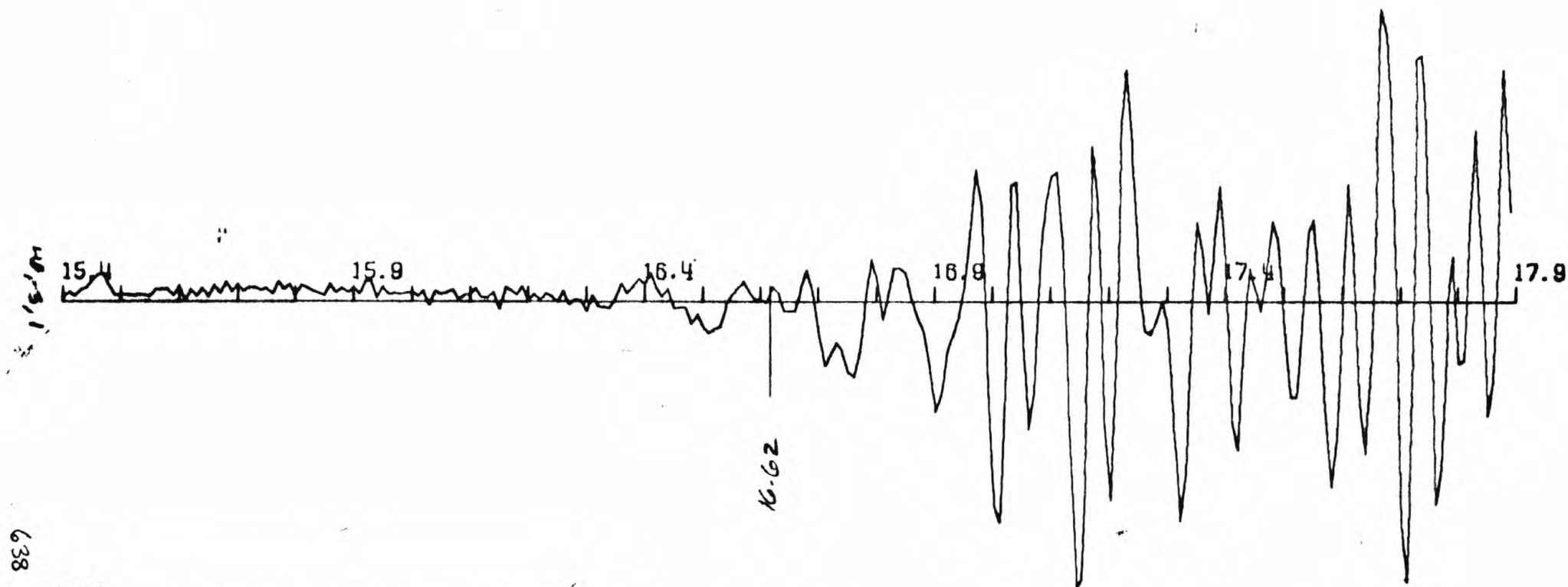
SAUDI ARABIAN REFRACTION PROFILE-30-DLL

SHOT POINT 5

RECORDER LOCATION 599

DISTANCE FROM SHOT (KM) = 100.945

TSCALE (CM/SEC) = 10.0



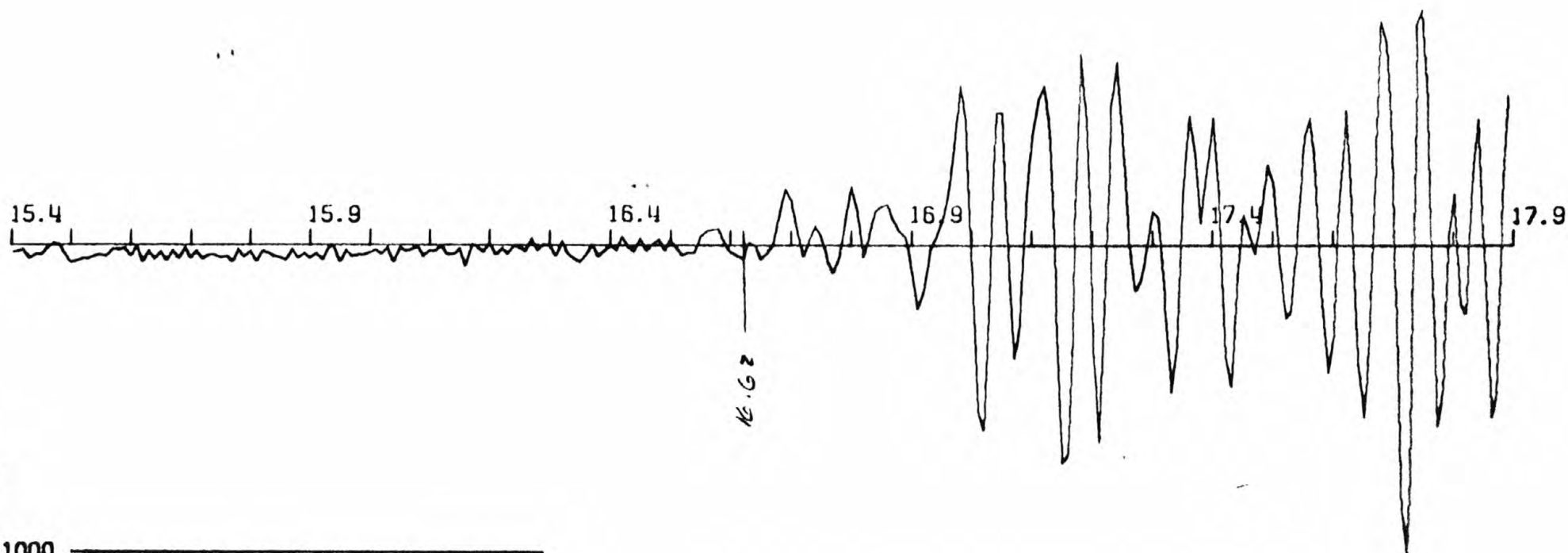
SAUDI ARABIAN REFRACTION PROFILE

SHOT POINT 5

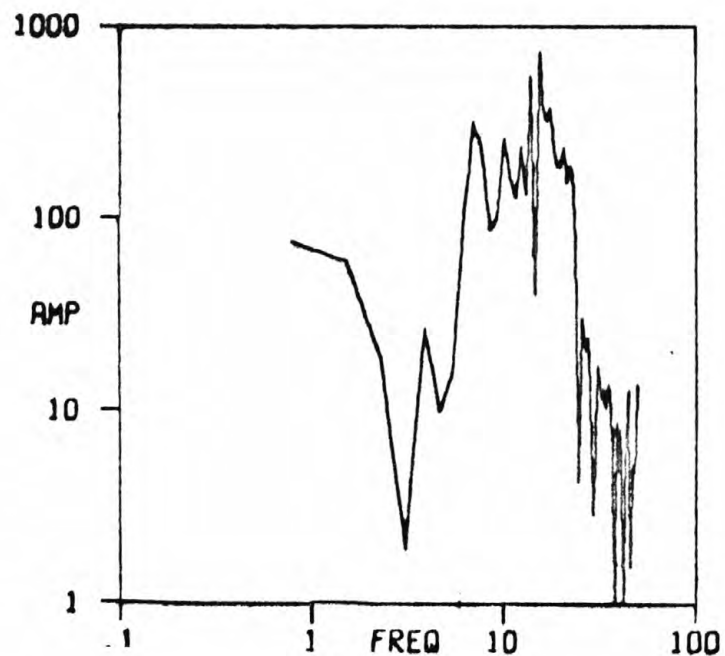
RECORDER LOCATION 597

DISTANCE FROM SHOT (KM) = 104.181

TSCALE (CM/SEC) = 10.0



639



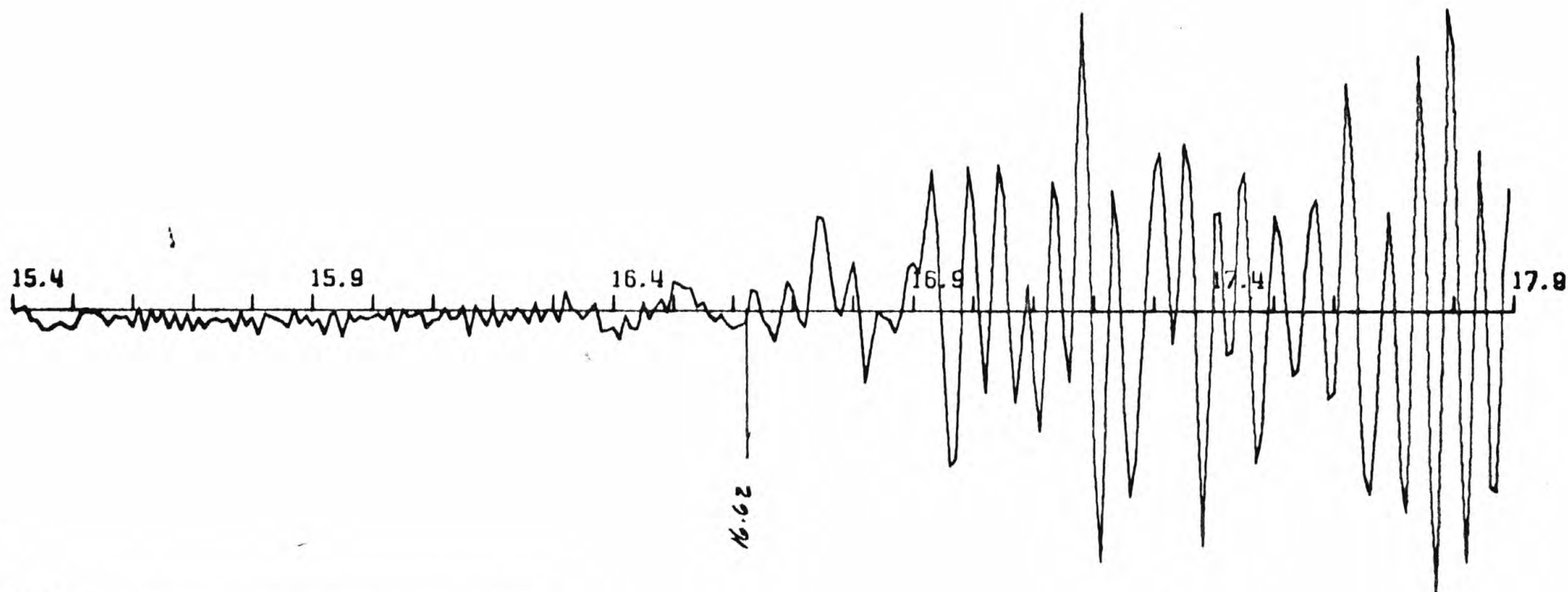
SAUDI ARABIAN REFRACTION PROFILE (SHP)

SHOT POINT 5

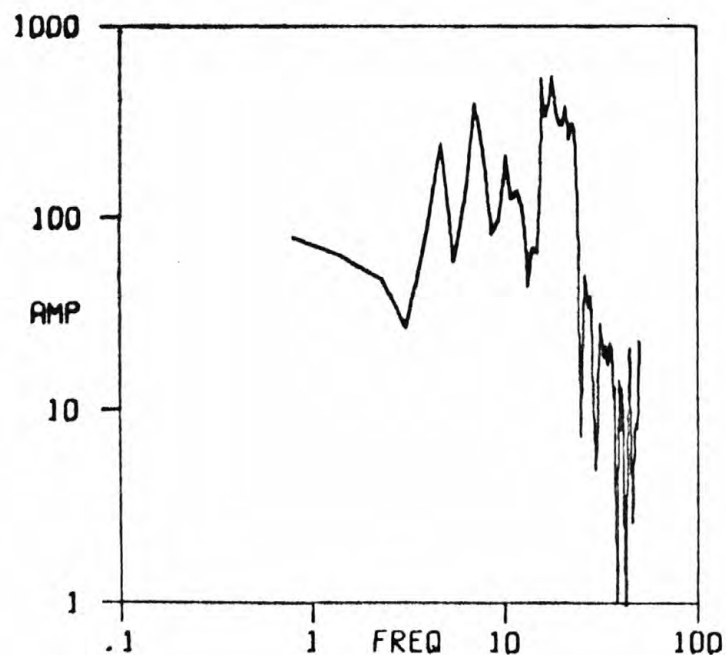
RECORDER LOCATION 597

DISTANCE FROM SHOT (KM) = 104.181

TSCALE (CM/SEC) = 10.0



640



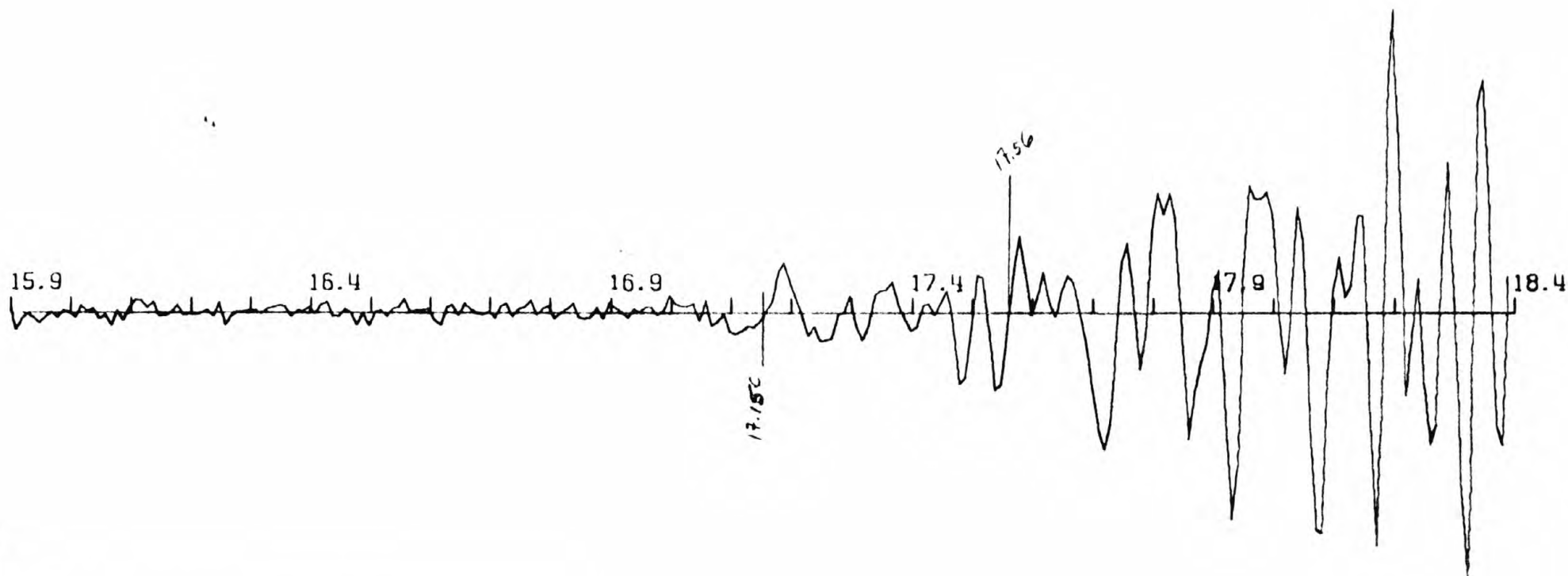
SAUDI ARABIAN REFRACTION PROFILE (15HP)

SHOT POINT 5

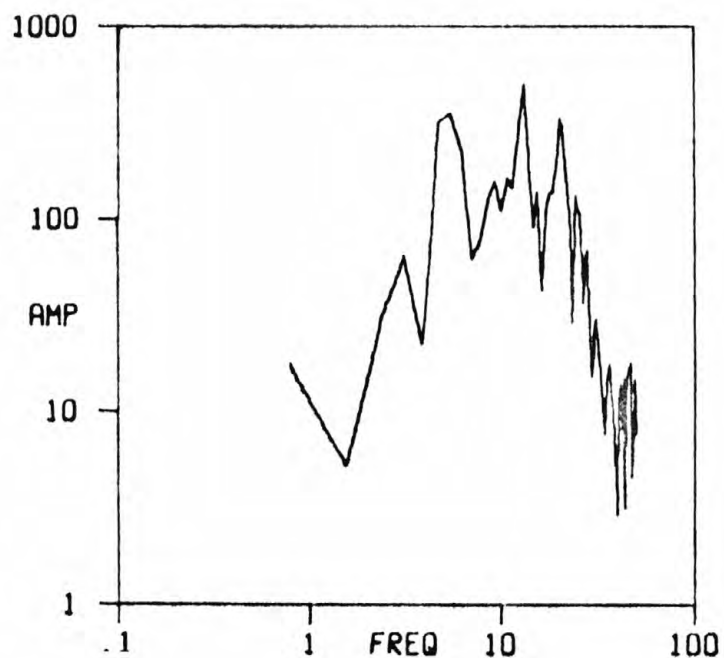
RECORDER LOCATION 597

DISTANCE FROM SHOT (KM) = 104.181

TSCALE (CM/SEC) = 10.0



641



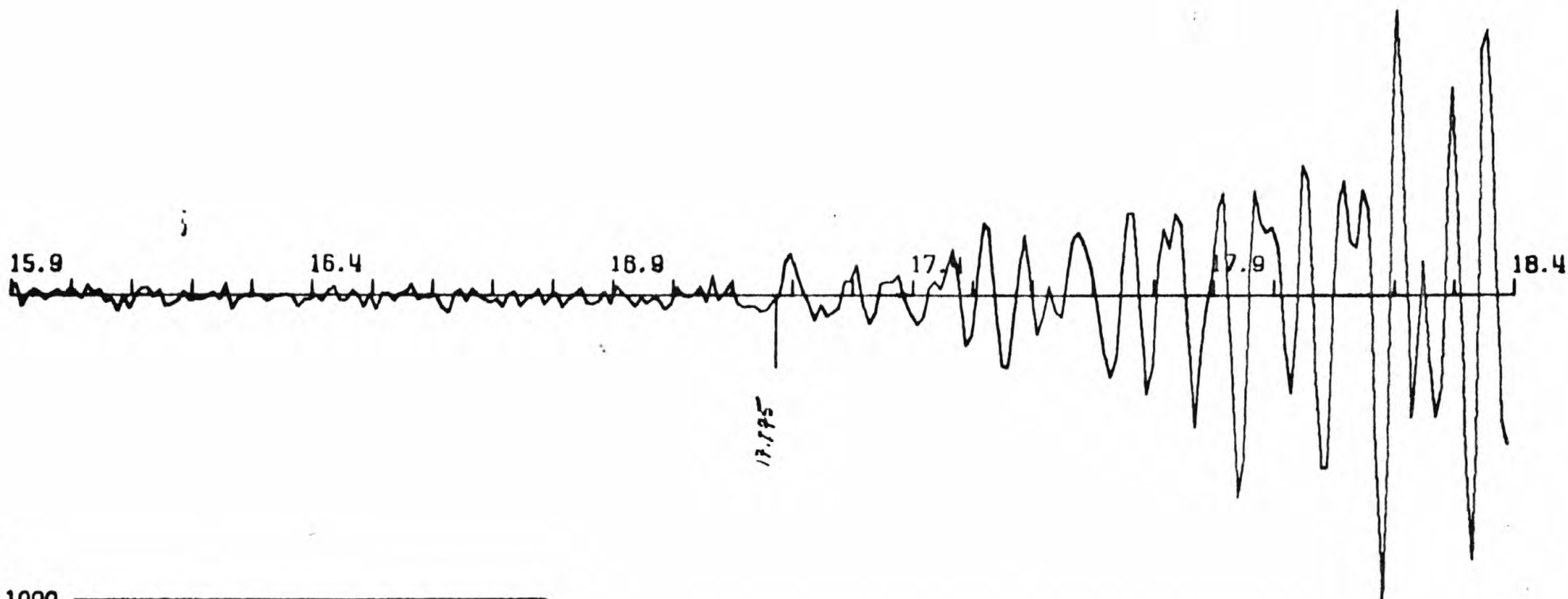
SAUDI ARABIAN REFRACTION PROFILE

SHOT POINT 5

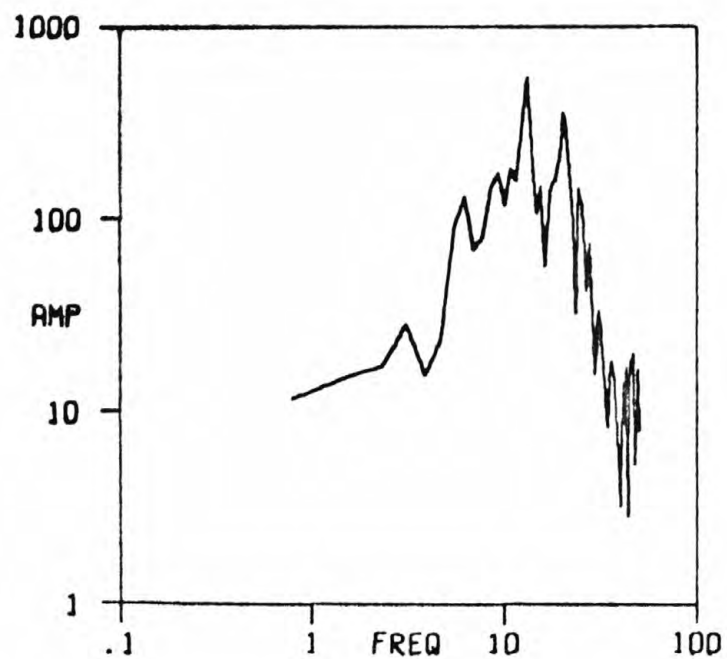
RECORDER LOCATION 596

DISTANCE FROM SHOT (KM) = 107.041

TSCALE (CM/SEC) = 10.0



642



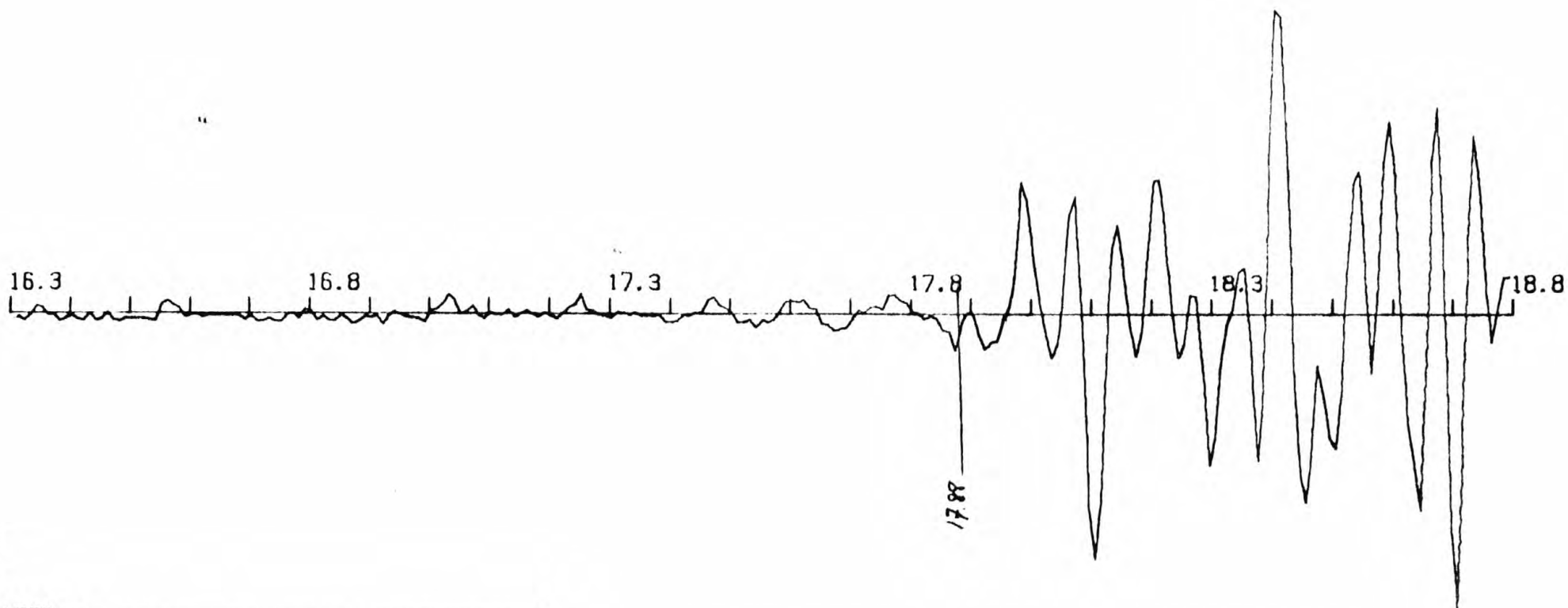
SAUDI ARABIAN REFRACTION PROFILE (SHP)

SHOT POINT 5

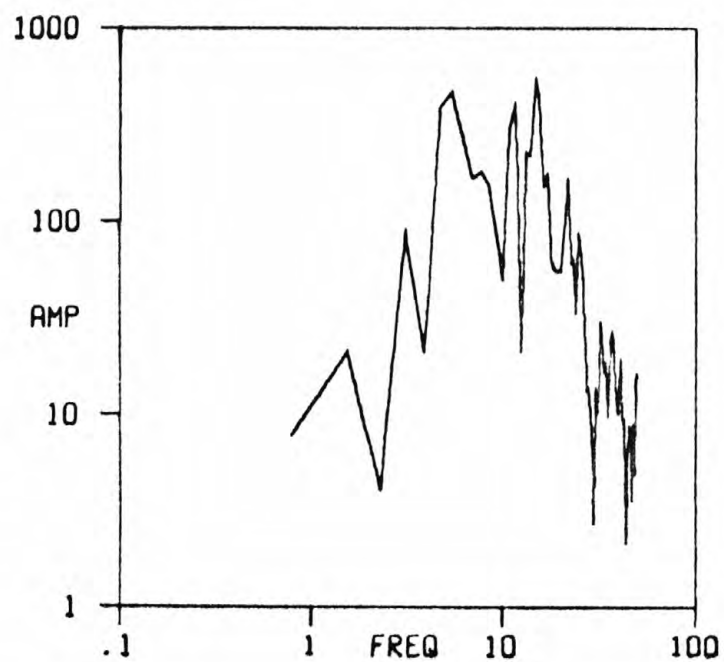
RECORDER LOCATION 586

DISTANCE FROM SHOT (KM) = 107.041

TSCALE (CM/SEC) = 10.0



643



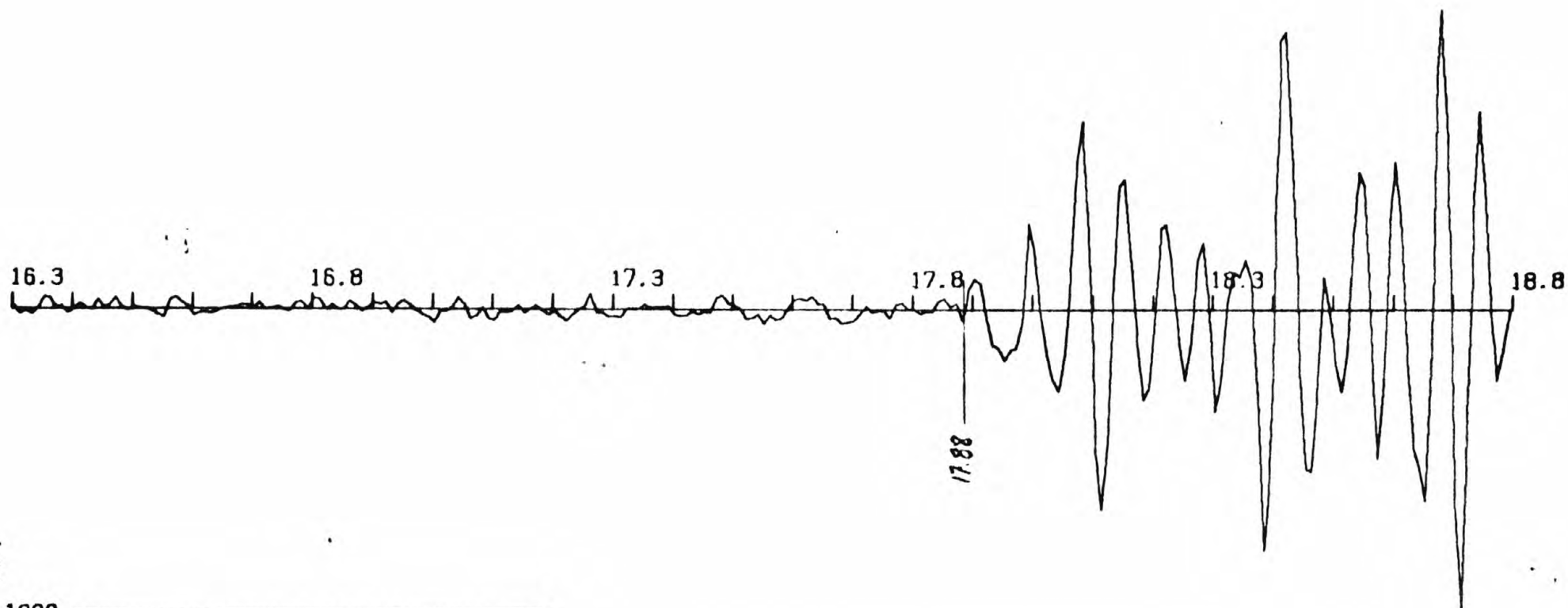
SAUDI ARABIAN REFRACTION PROFILE

SHOT POINT 5

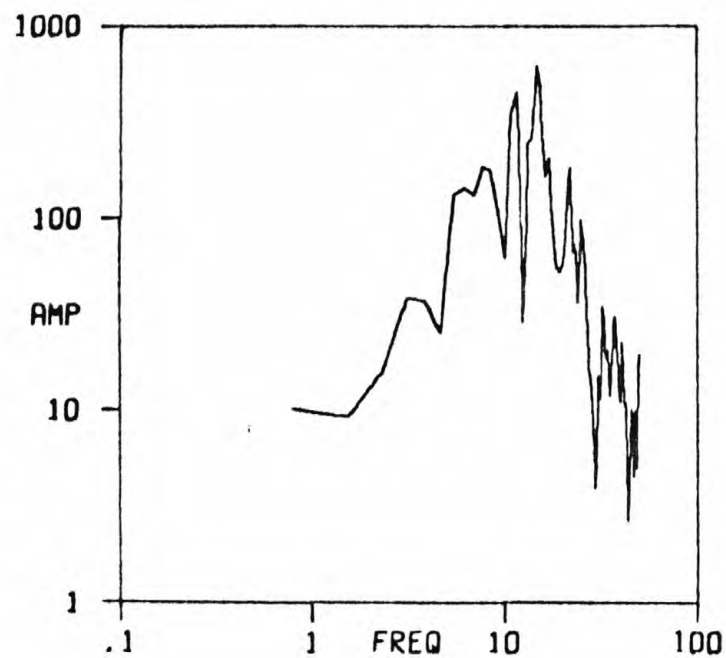
RECORDER LOCATION 595

DISTANCE FROM SHOT (KM) = 109.657

TSCALE (CM/SEC) = 10.0



649



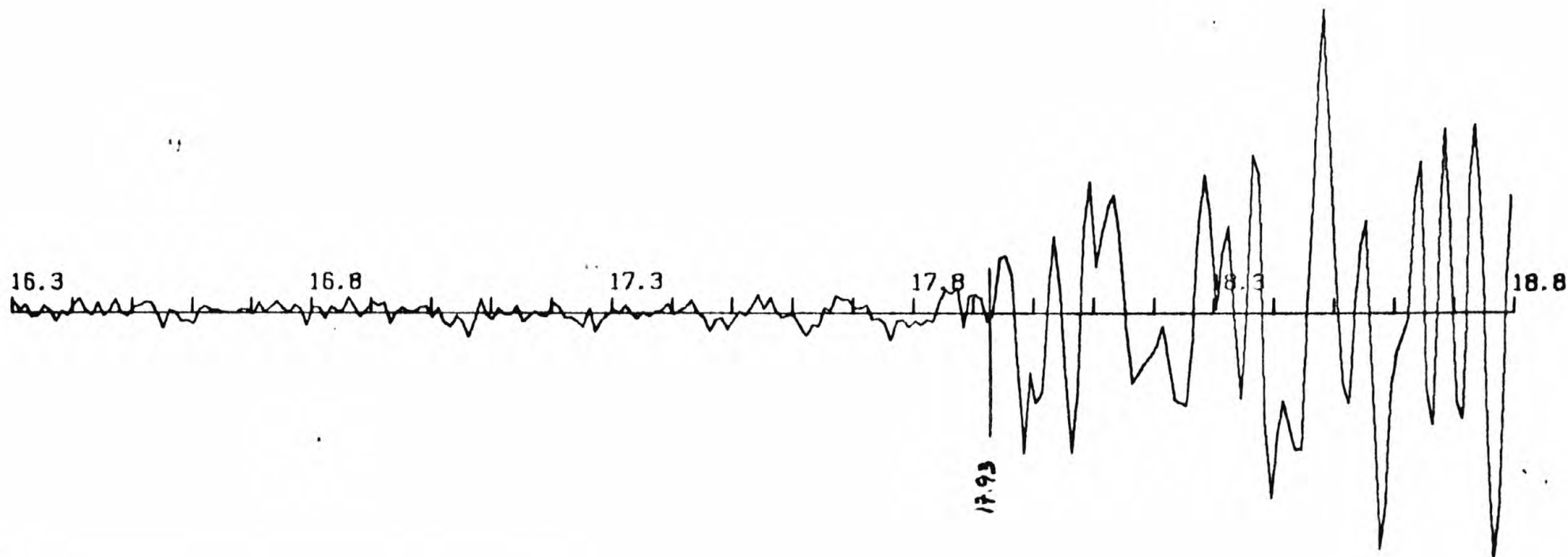
SAUDI ARABIAN REFRACTION PROFILE (5HP)

SHOT POINT 5

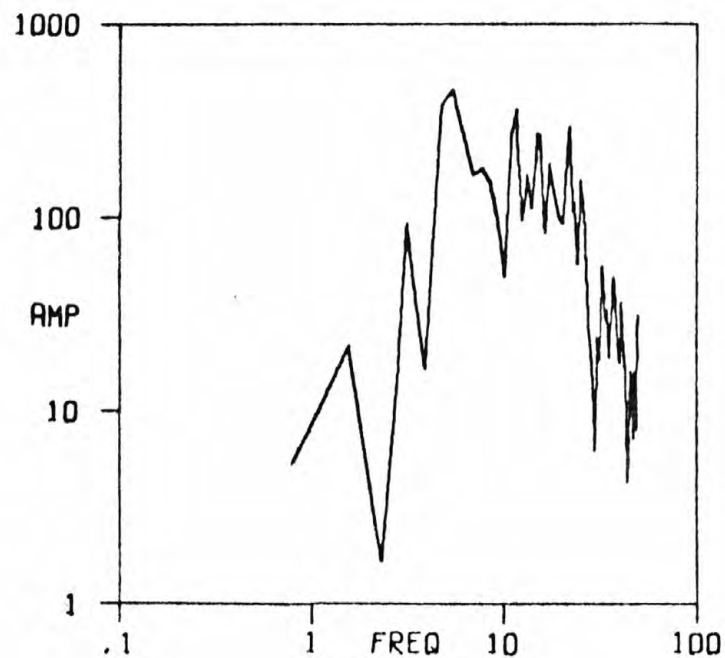
RECORDER LOCATION 595

DISTANCE FROM SHOT (KM) = 109.657

TSCALE (CM/SEC) = 10.0



645



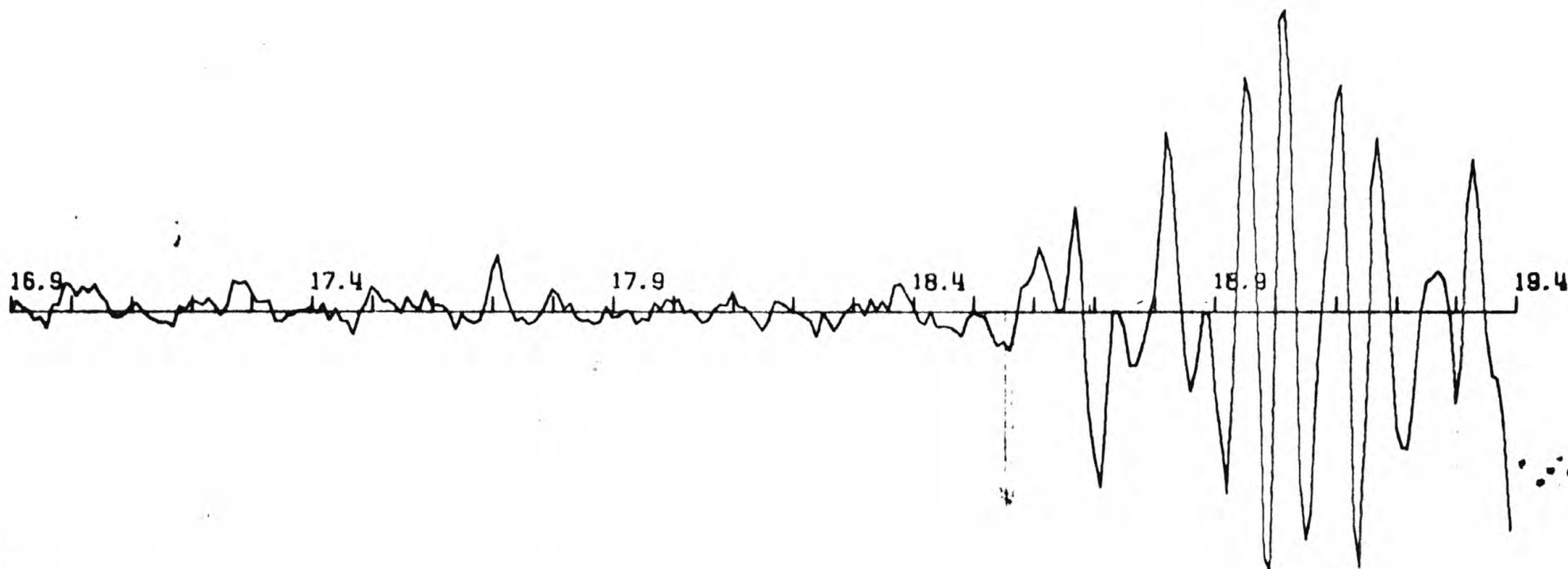
SAUDI ARABIAN REFRACTION PROFILE (15HP)

SHOT POINT 5

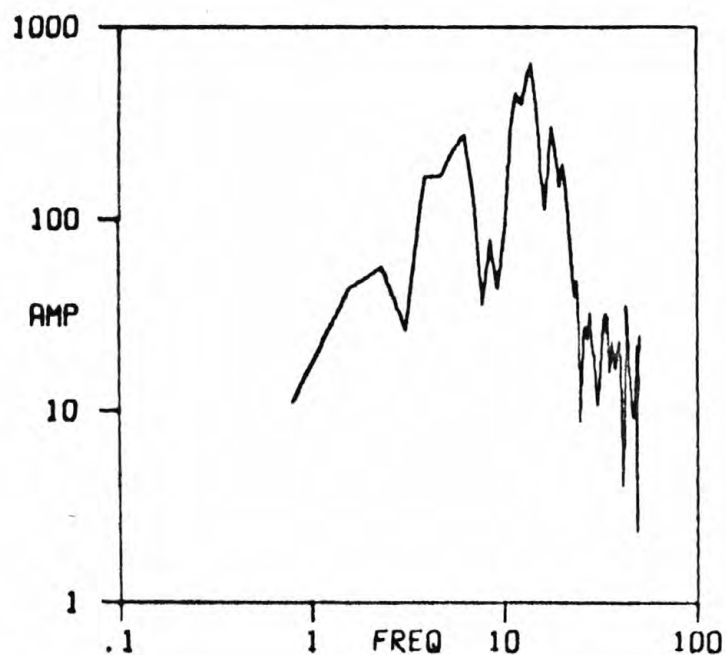
RECORDER LOCATION 595

DISTANCE FROM SHOT (KM) = 109.657

TS SCALE (CM/SEC) = 10.0



646



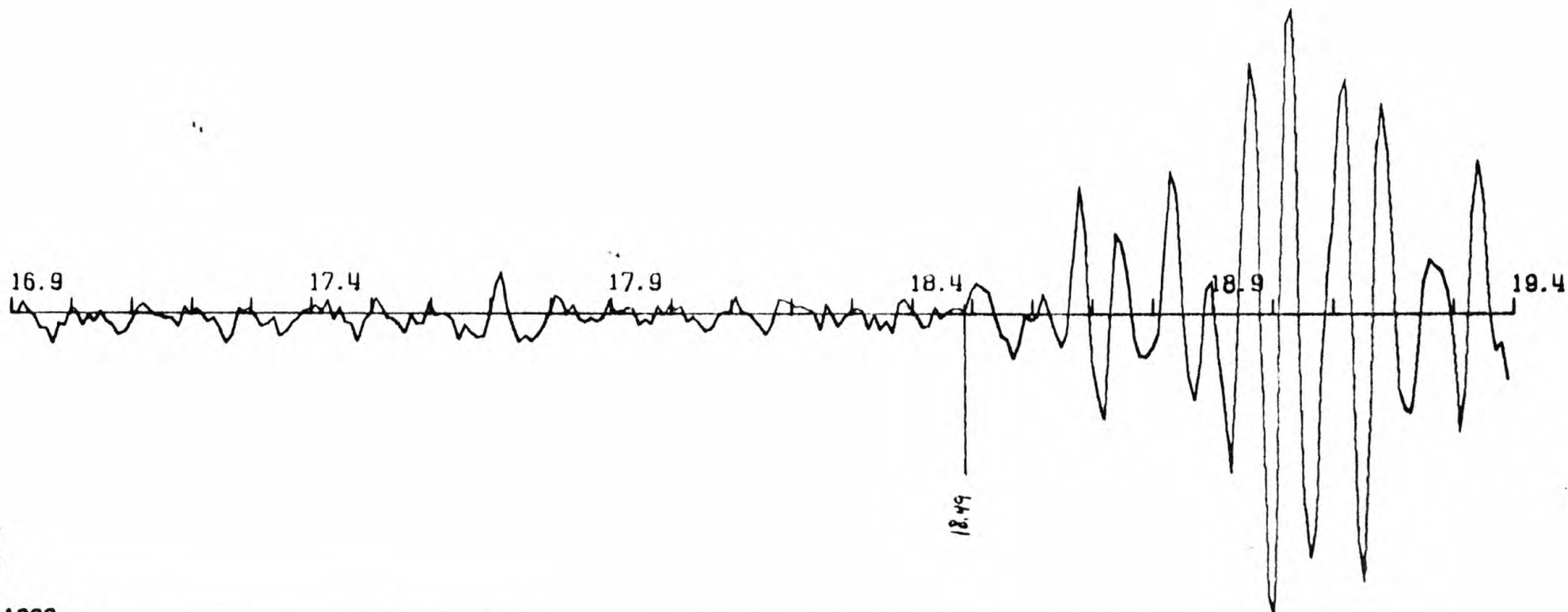
SAUDI ARABIAN REFRACTION PROFILE

SHOT POINT 5

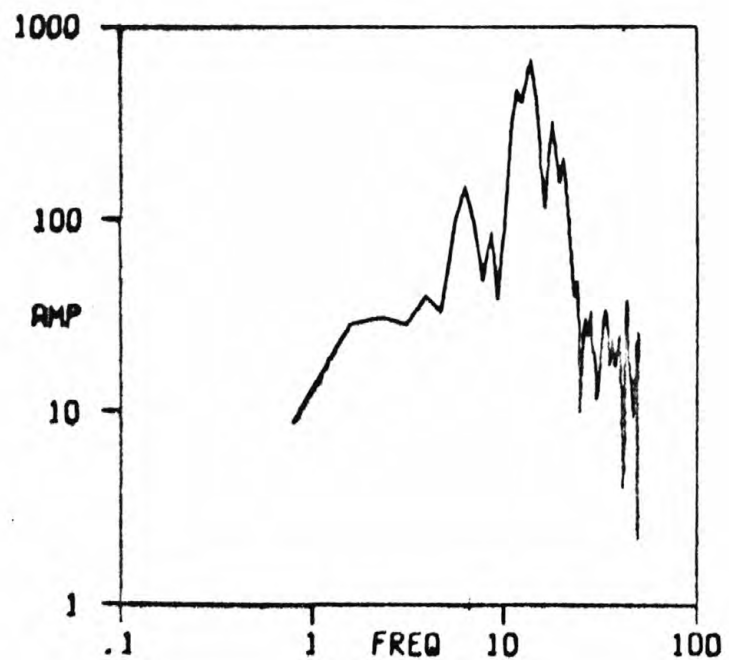
RECORDER LOCATION 593

DISTANCE FROM SHOT (KM) = 113.228

TSCALE (CM/SEC) = 10.0



647



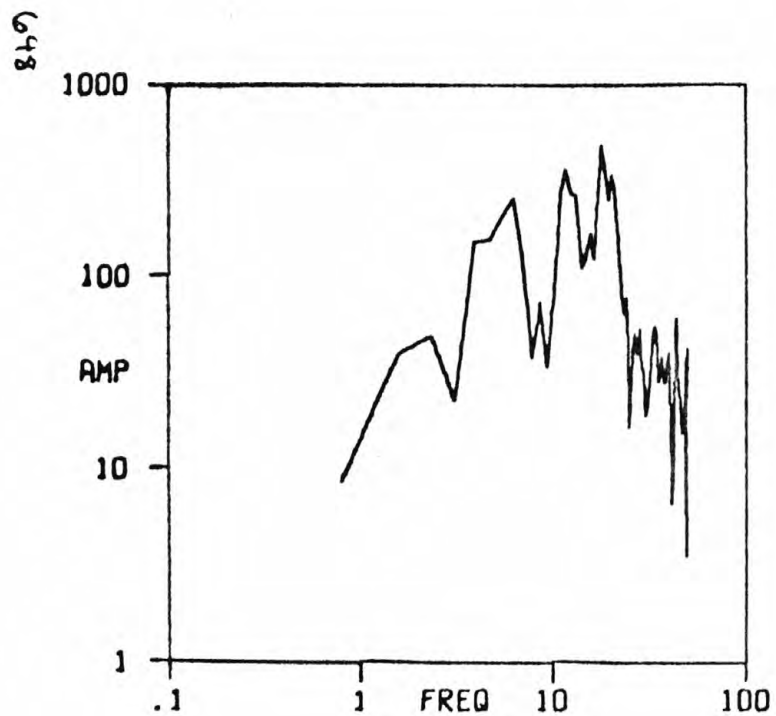
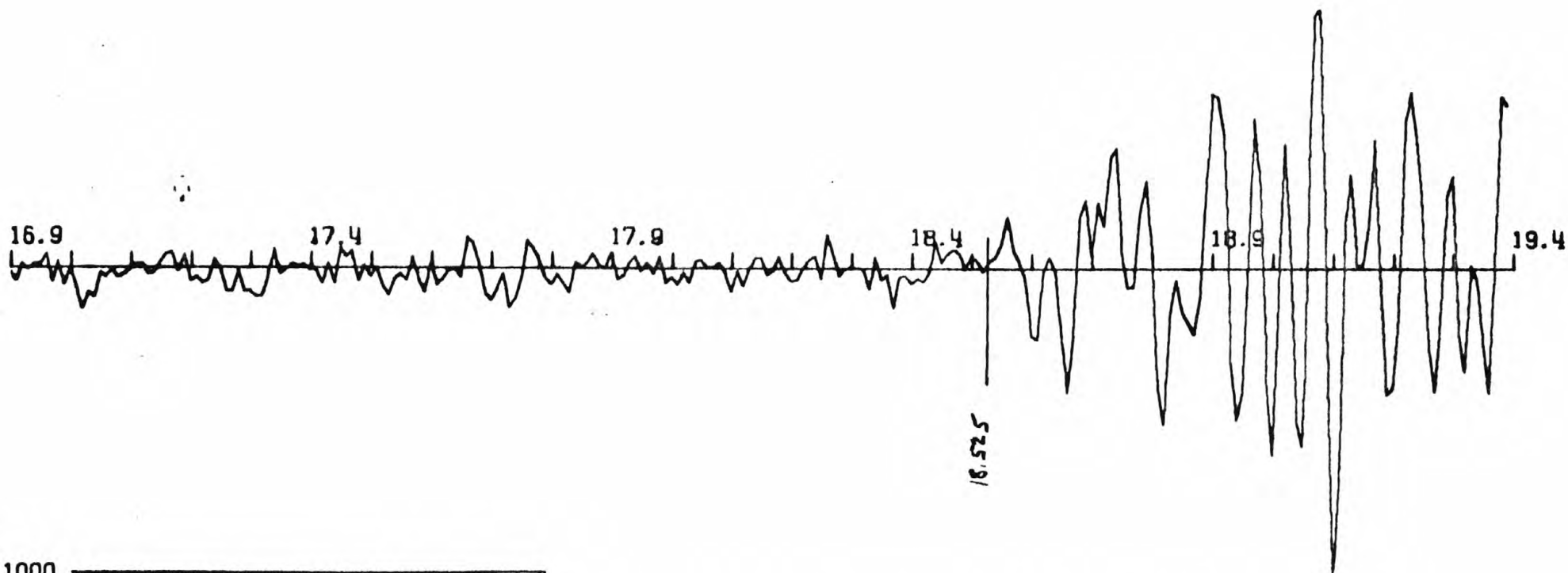
SAUDI ARABIAN REFRACTION PROFILE (SHP)

SHOT POINT 5

RECORDER LOCATION 503

DISTANCE FROM SHOT (KM) = 113.228

TSCALE (CM/SEC) = 10.0



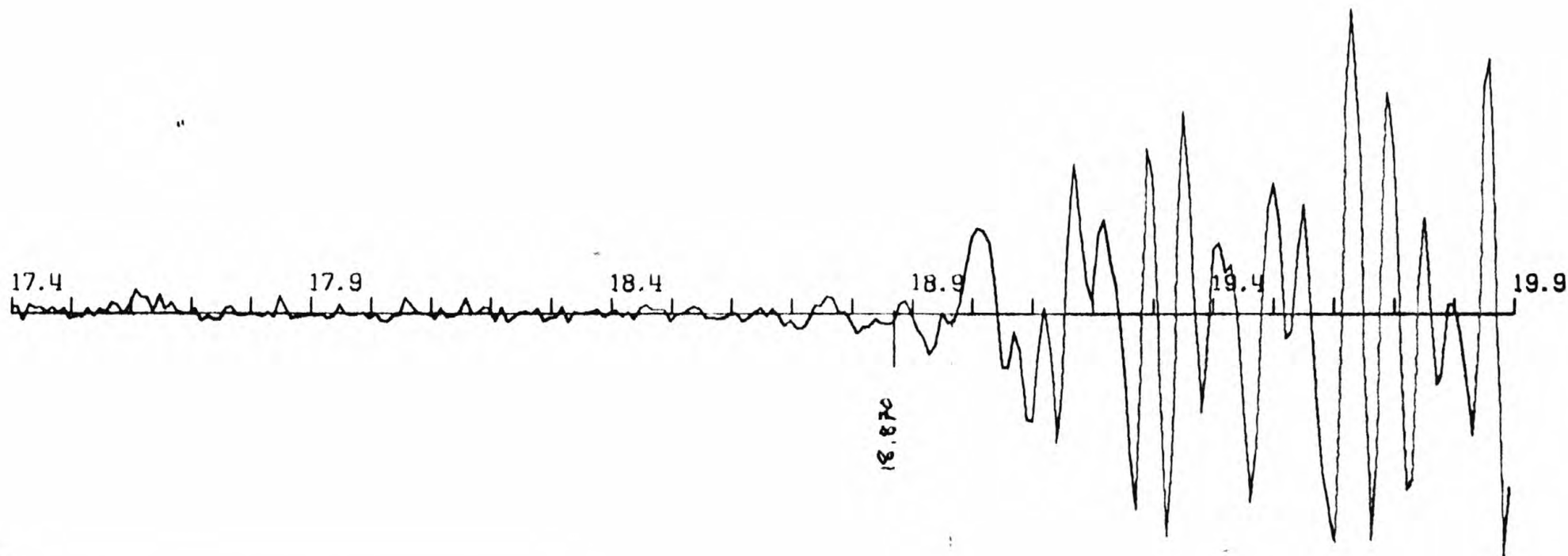
SAUDI ARABIAN REFRACTION PROFILE (15HP)

SHOT POINT 5

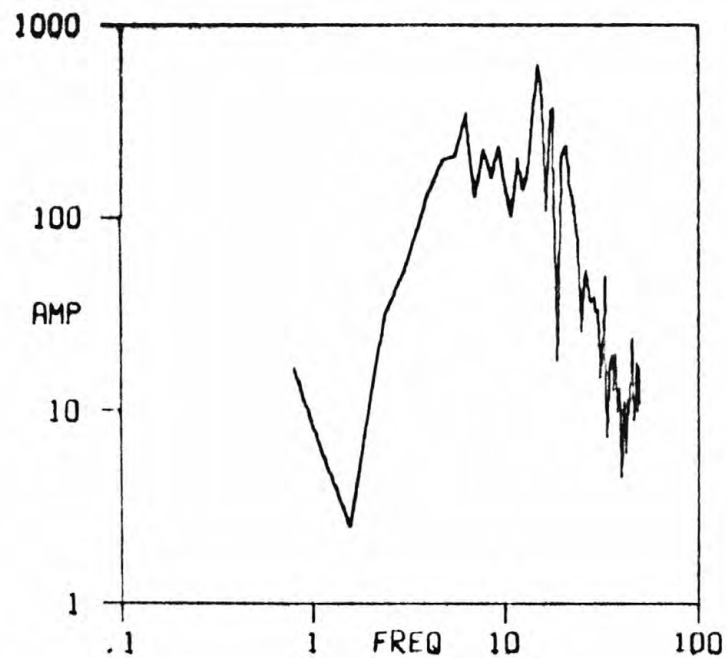
RECORDER LOCATION 593

DISTANCE FROM SHOT (KM) = 113.228

TSCALE (CM/SEC) = 10.0



649



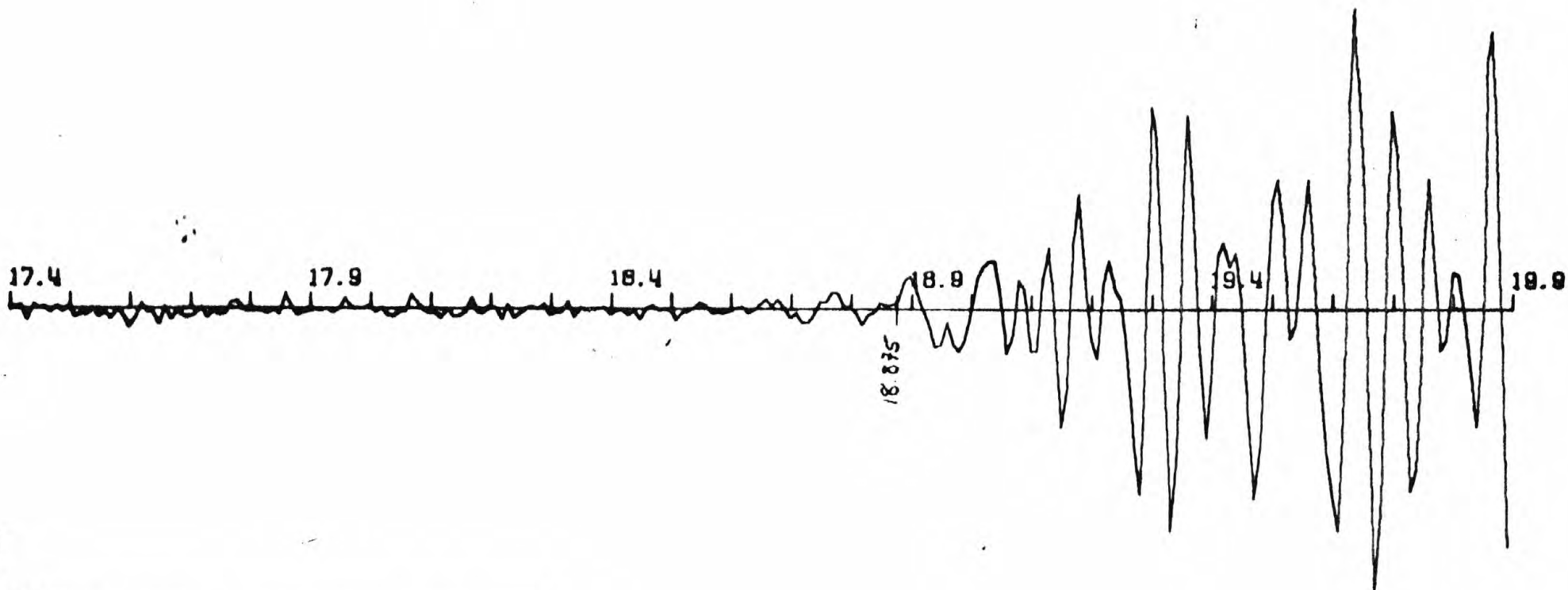
SAUDI ARABIAN REFRACTION PROFILE

SHOT POINT 5

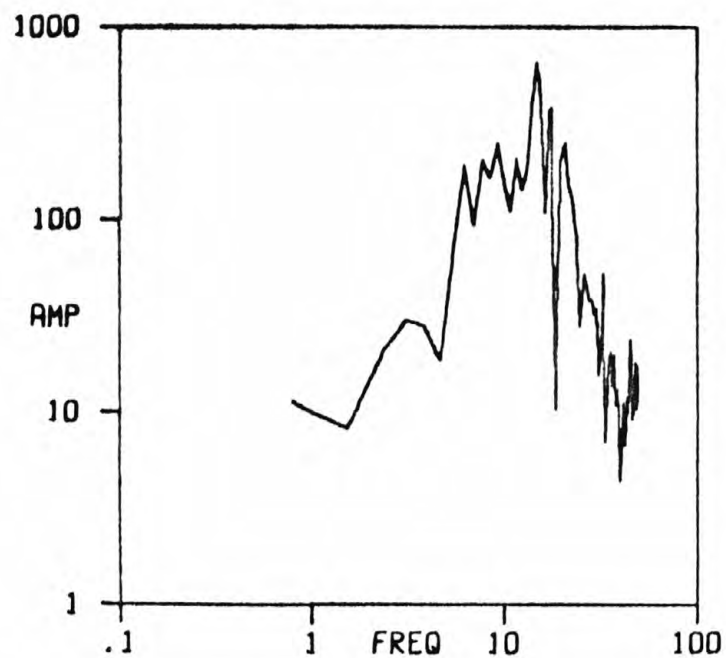
RECORDER LOCATION 592

DISTANCE FROM SHOT (KM) = 115.806

TSCALE (CM/SEC) = 10.0



059



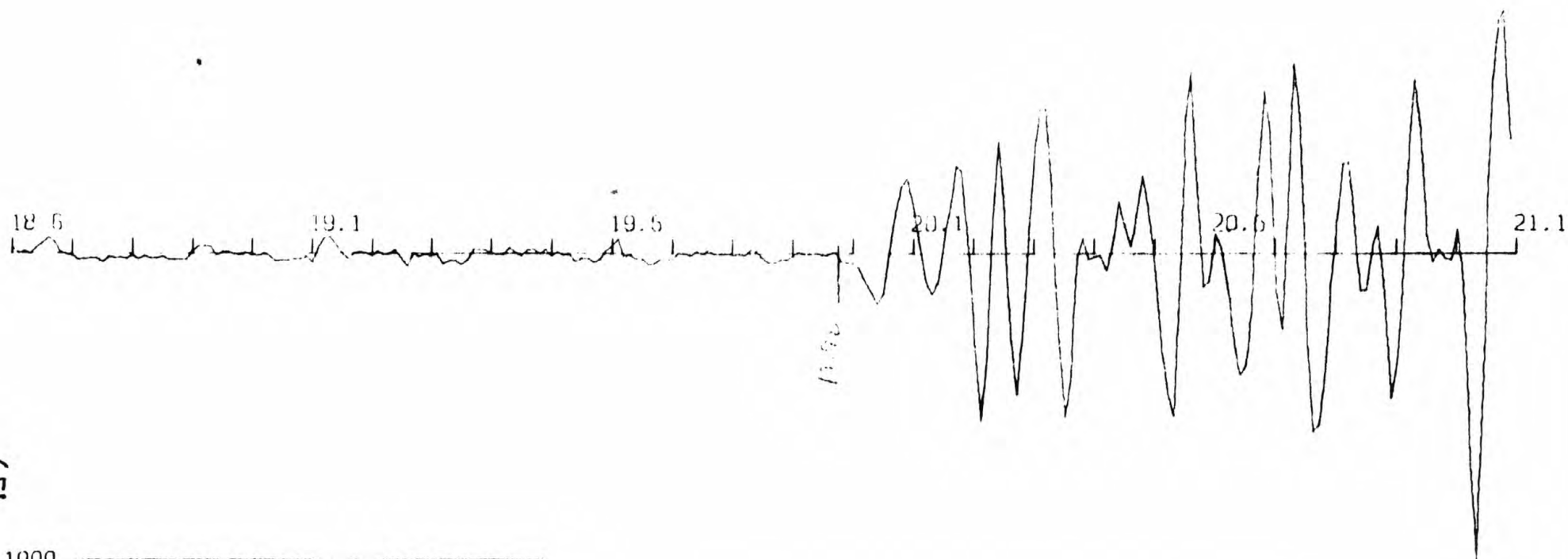
SAUDI ARABIAN REFRACTION PROFILE (5HP)

SHOT POINT 5

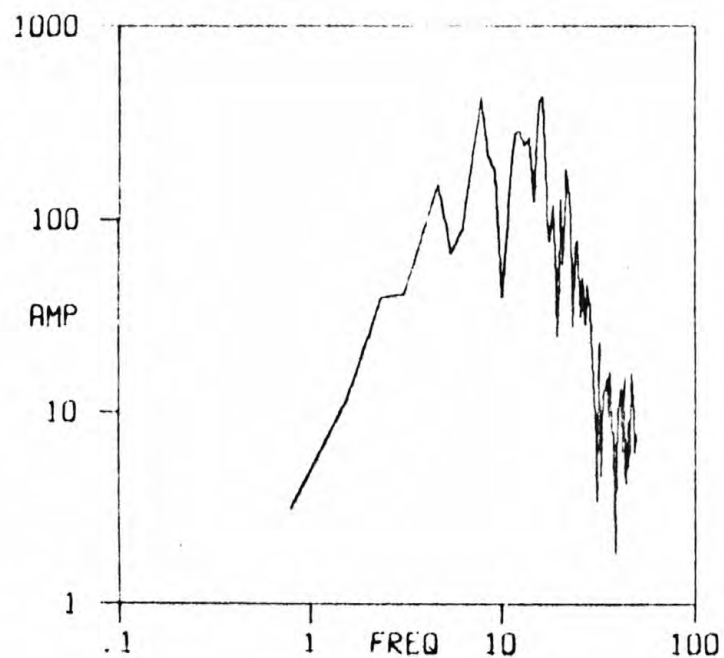
RECORDER LOCATION 592

DISTANCE FROM SHOT (KM) = 115.806

TSCALE (CM/SEC) = 10.0



151



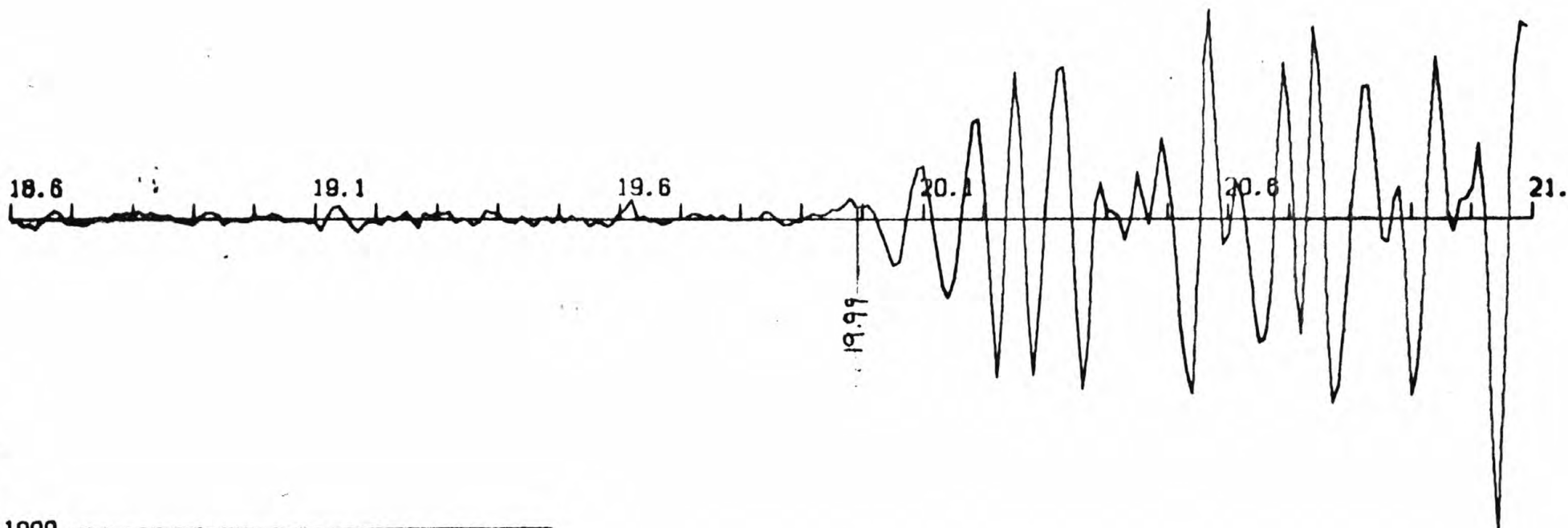
SAUDI ARABIAN REFRACTION PROFILE

SHOT POINT 5

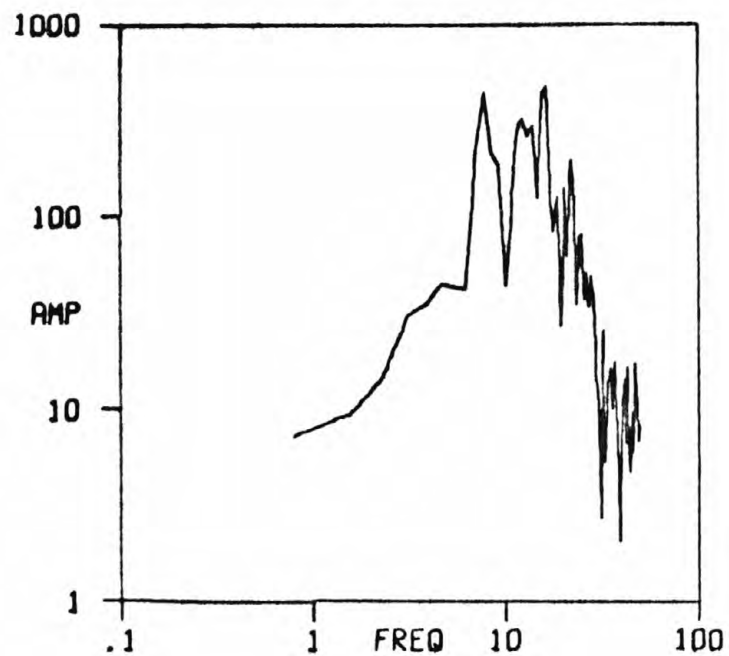
REORDER LOCATION 588

DISTANCE FROM SHOT (KM) = 123.558

TSKALE (CM/SEC) = 10.0



6.52



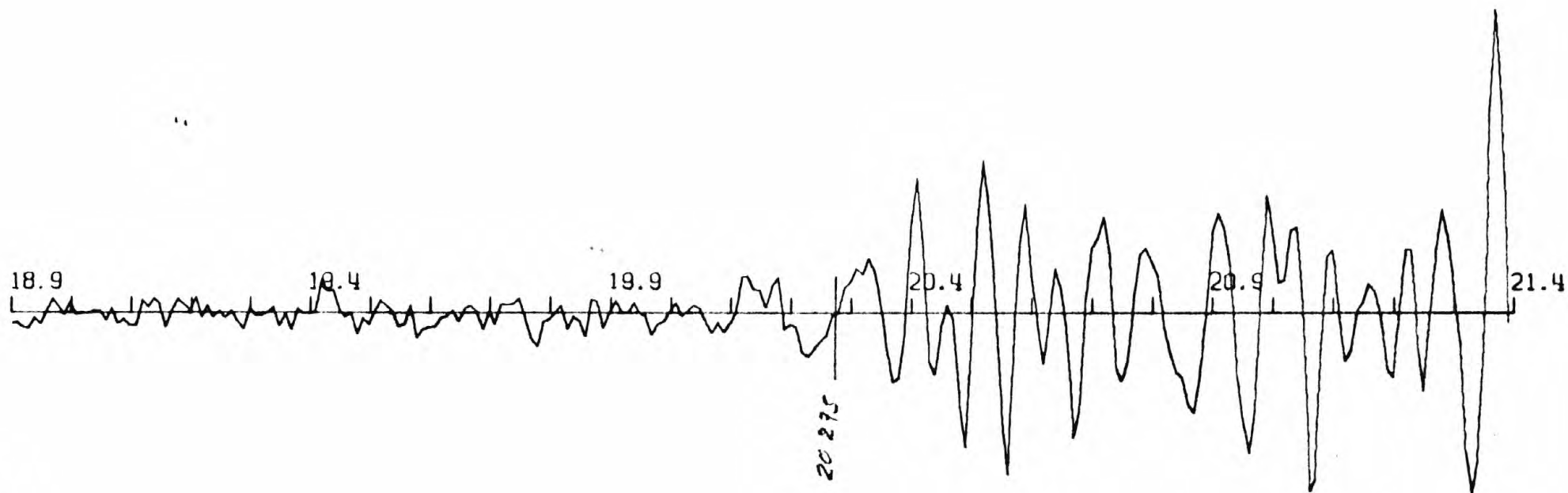
SAUDI ARABIAN REFRACTION PROFILE (SHP)

SHOT POINT 5

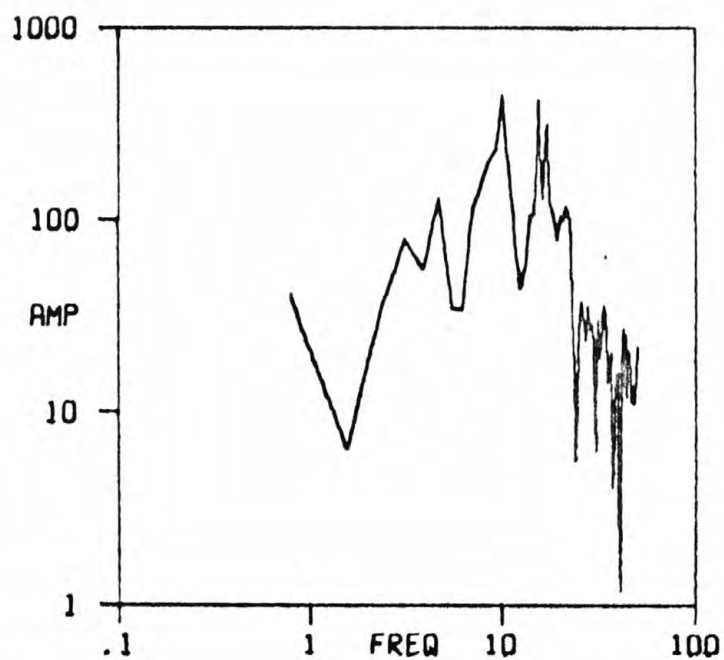
RECORDER LOCATION 588

DISTANCE FROM SHOT (KM) = 123.558

TSCALE (CM/SEC) = 10.0



6.53



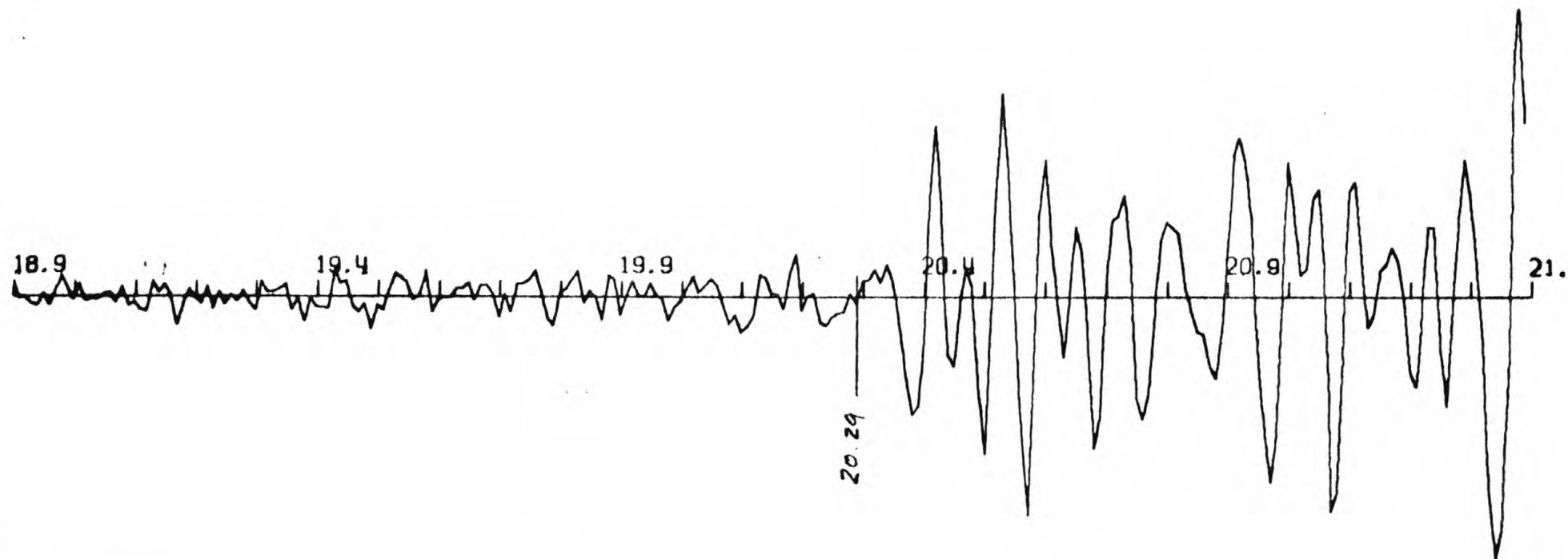
SAUDI ARABIAN REFRACTION PROFILE

SHOT POINT 5

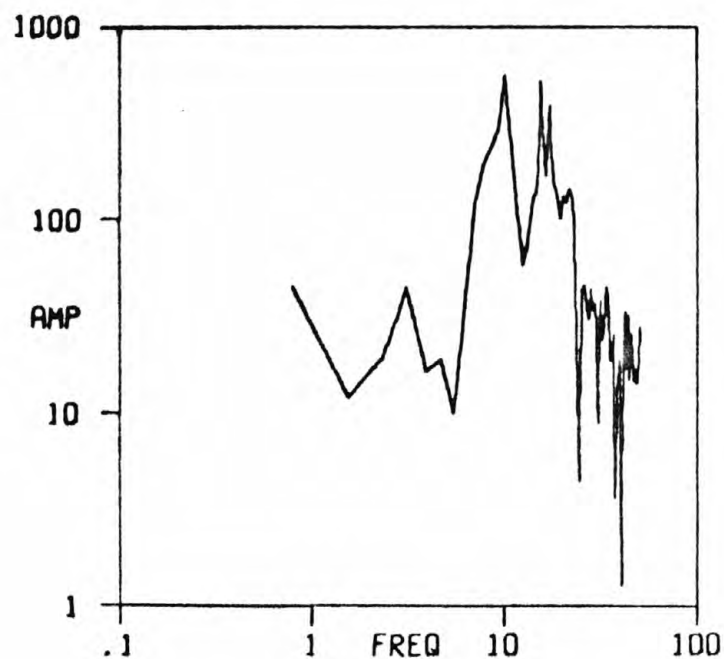
RECORDER LOCATION 587

DISTANCE FROM SHOT (KM) = 125.108

TSCALE (CM/SEC) = 10.0



654



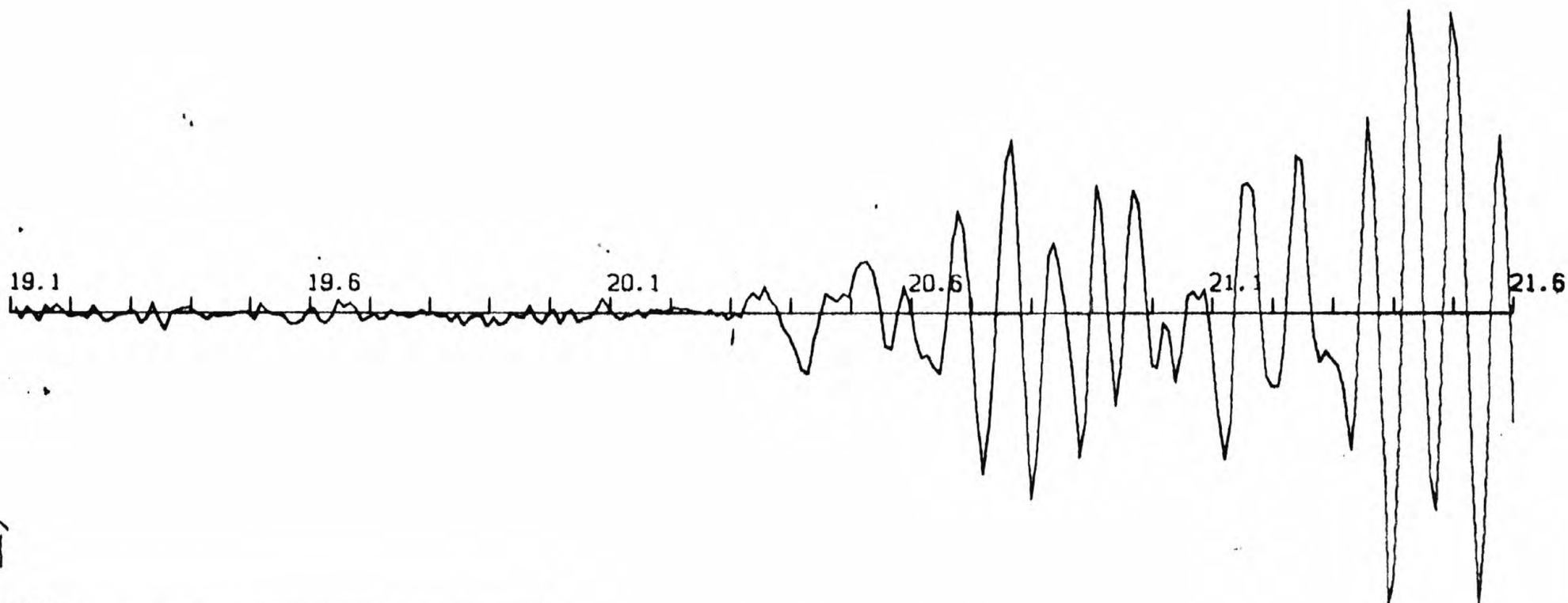
SAUDI ARABIAN REFRACTION PROFILE (5HP)

SHOT POINT 5

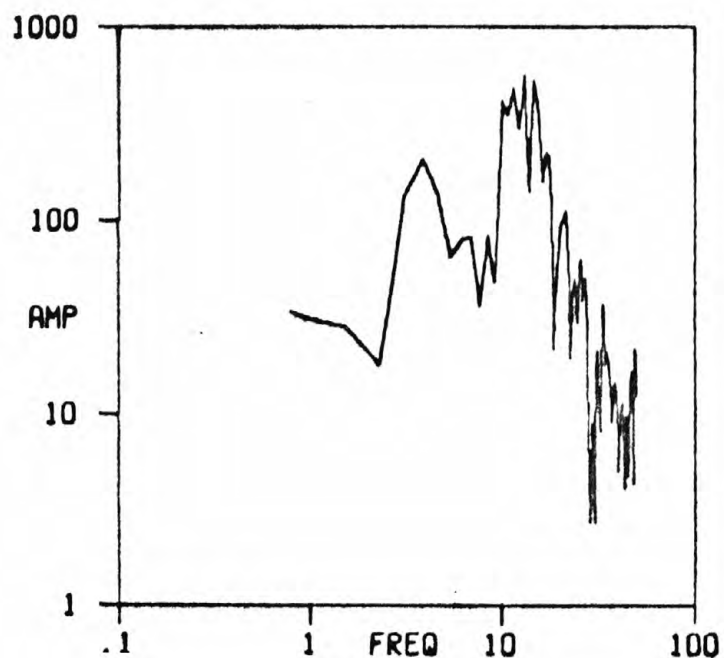
RECORDER LOCATION 587

DISTANCE FROM SHOT (KM) = 125.108

TSCALE (CM/SEC) = 10.0



55



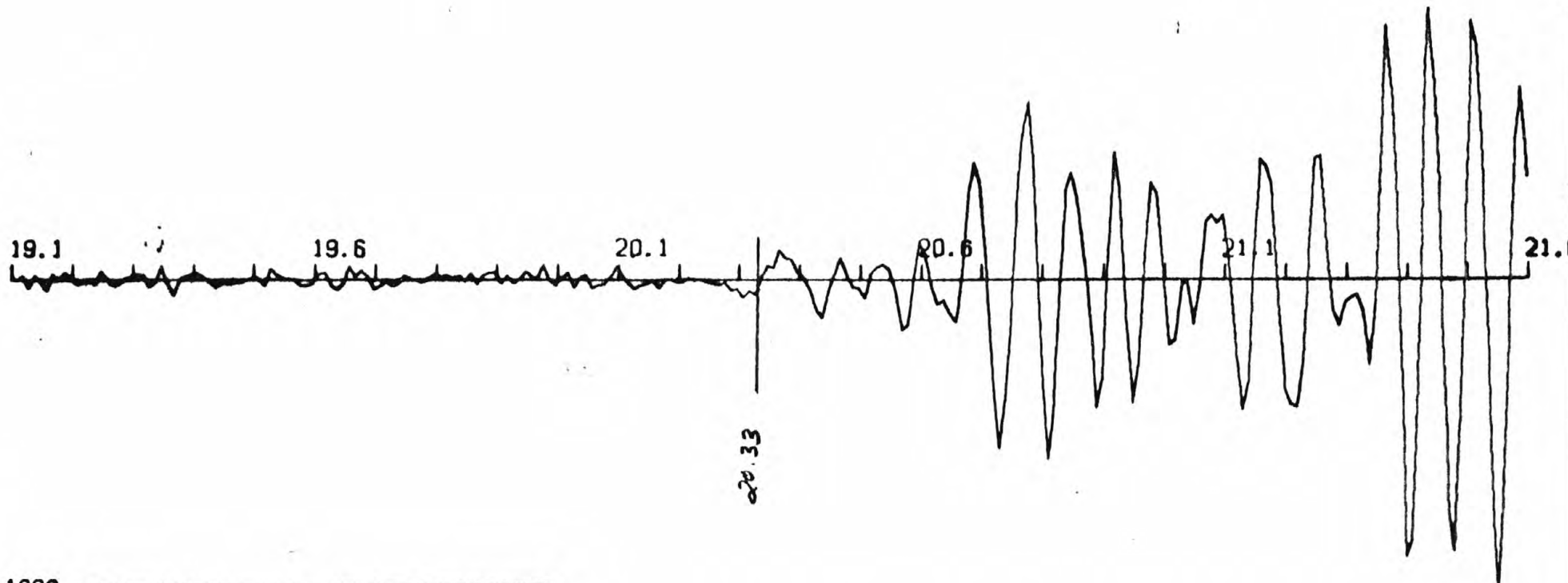
SAUDI ARABIAN REFRACTION PROFILE

SHOT POINT 5

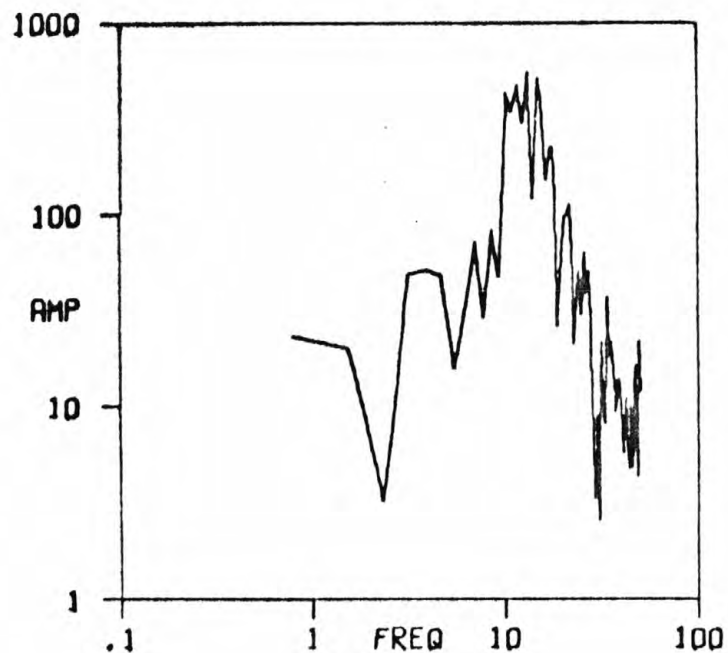
RECORDER LOCATION 588

DISTANCE FROM SHOT (KM) = 126.359

TSCALE (CM/SEC) = 10.0



959



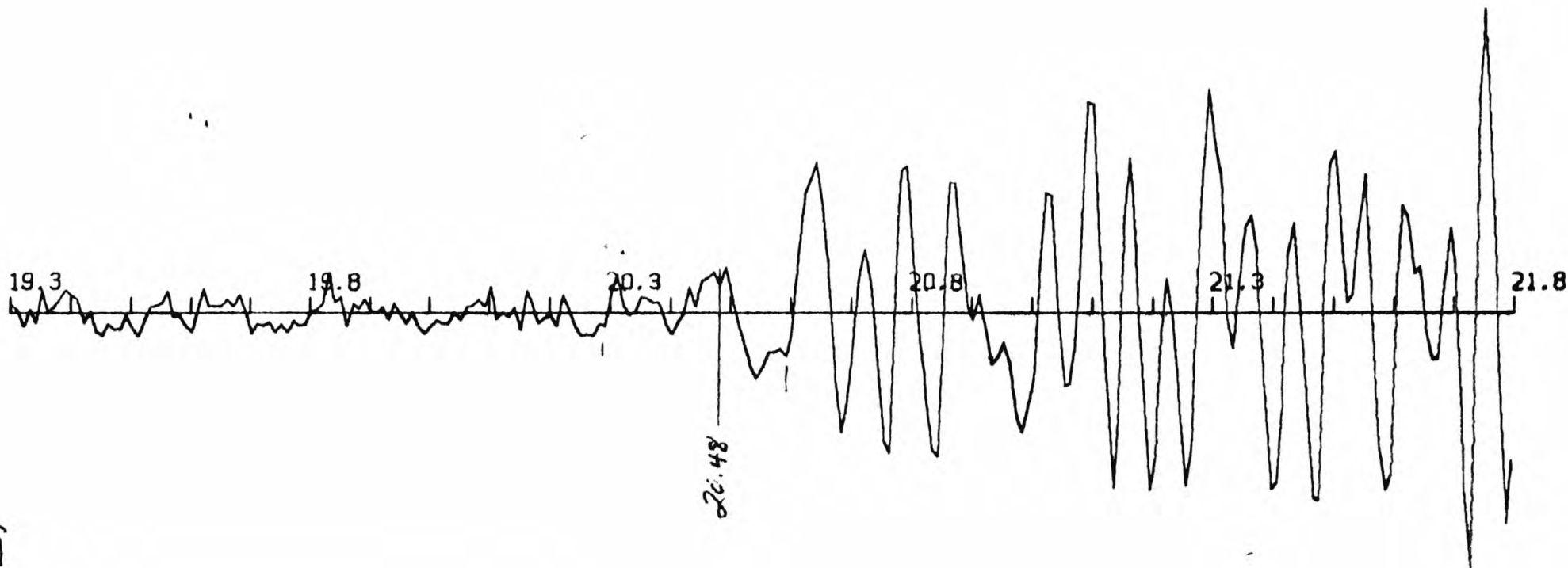
SAUDI ARABIAN REFRACTION PROFILE (SHP)

SHOT POINT 5

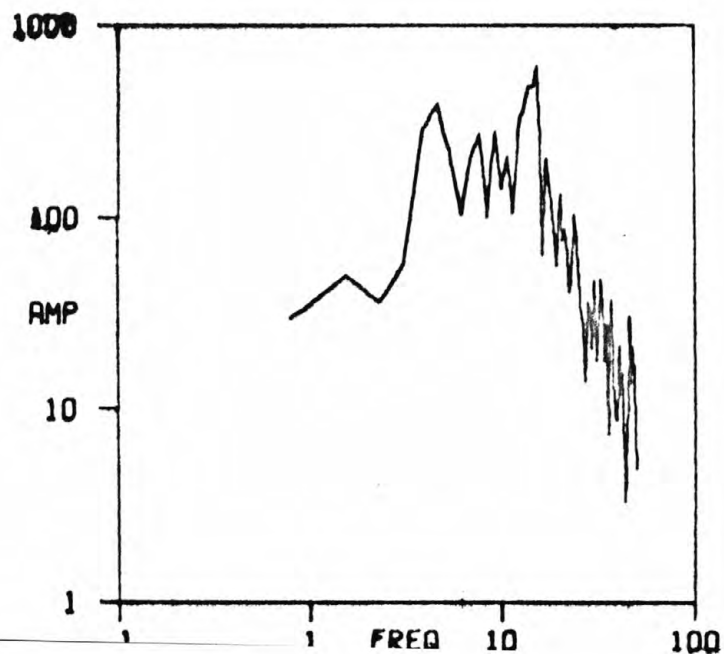
RECORDER LOCATION 586

DISTANCE FROM SHOT (KM) = 126.359

TSCALE (CM/SEC) = 10.0



157



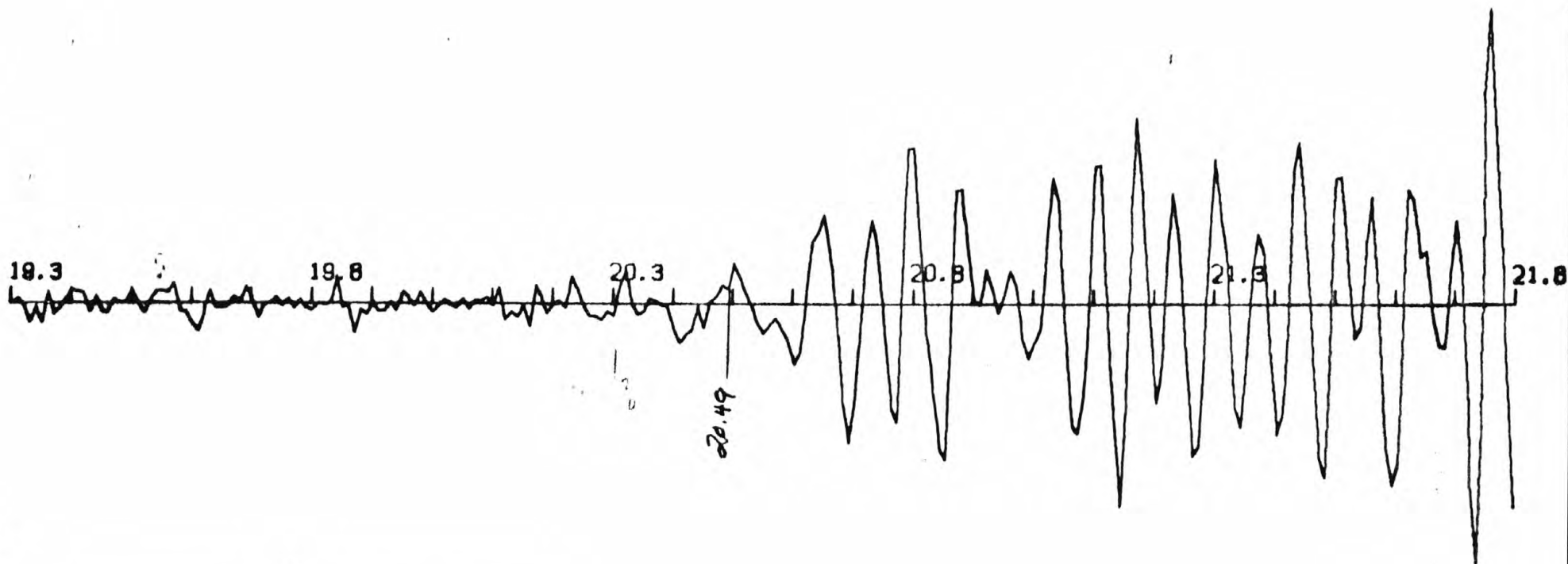
SAUDI ARABIAN REFRACTION PROFILE

SHOT POINT 5

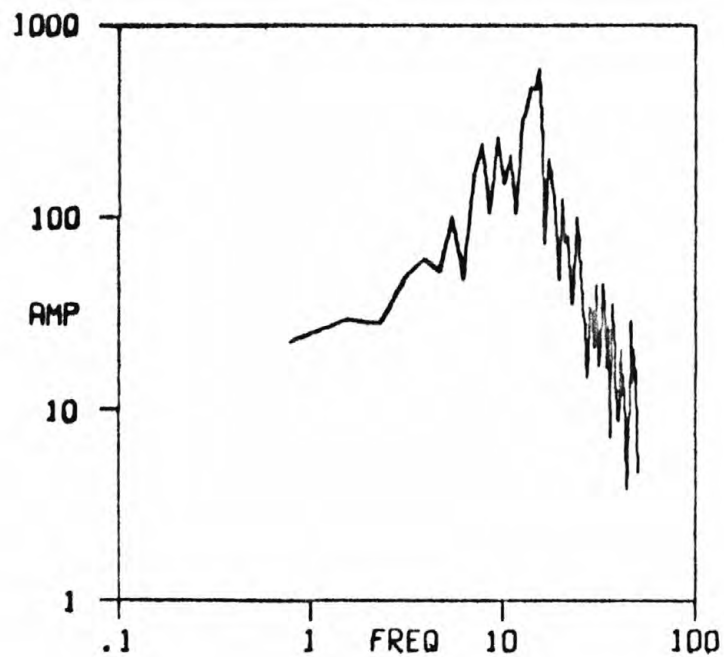
RECORDER LOCATION 585

DISTANCE FROM SHOT (KM) = 127.230

TSCALE (CM/SEC) = 10.0



858



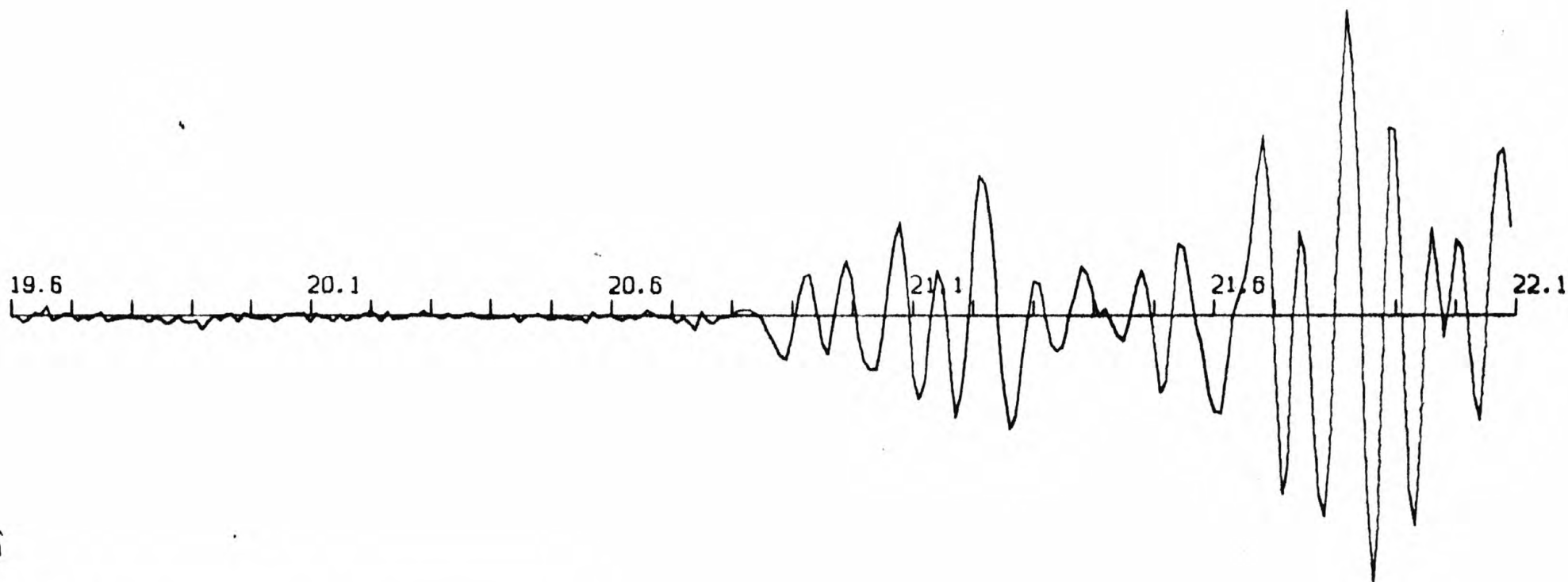
SAUDI ARABIAN REFRACTION PROFILE (5HP)

SHOT POINT 5

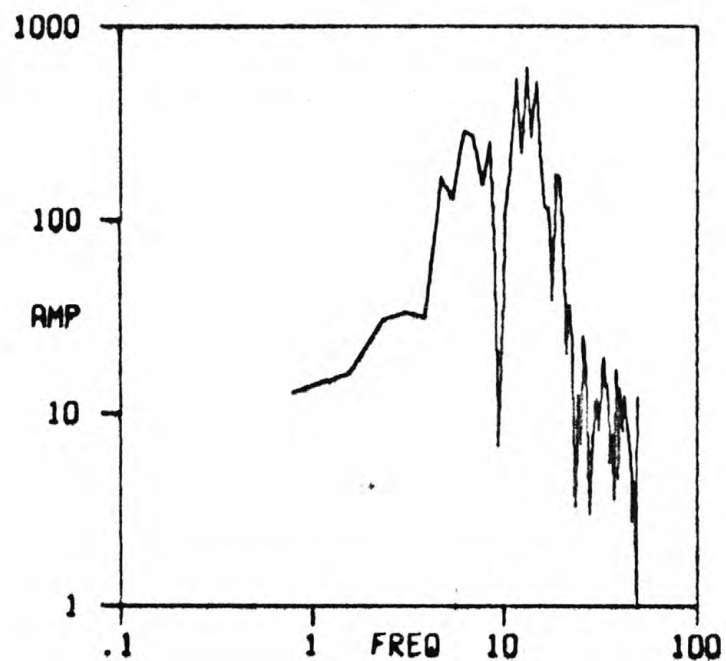
RECORDER LOCATION 585

DISTANCE FROM SHOT (KM) = 127.230

TSCALE (CM/SEC) = 10.0



659



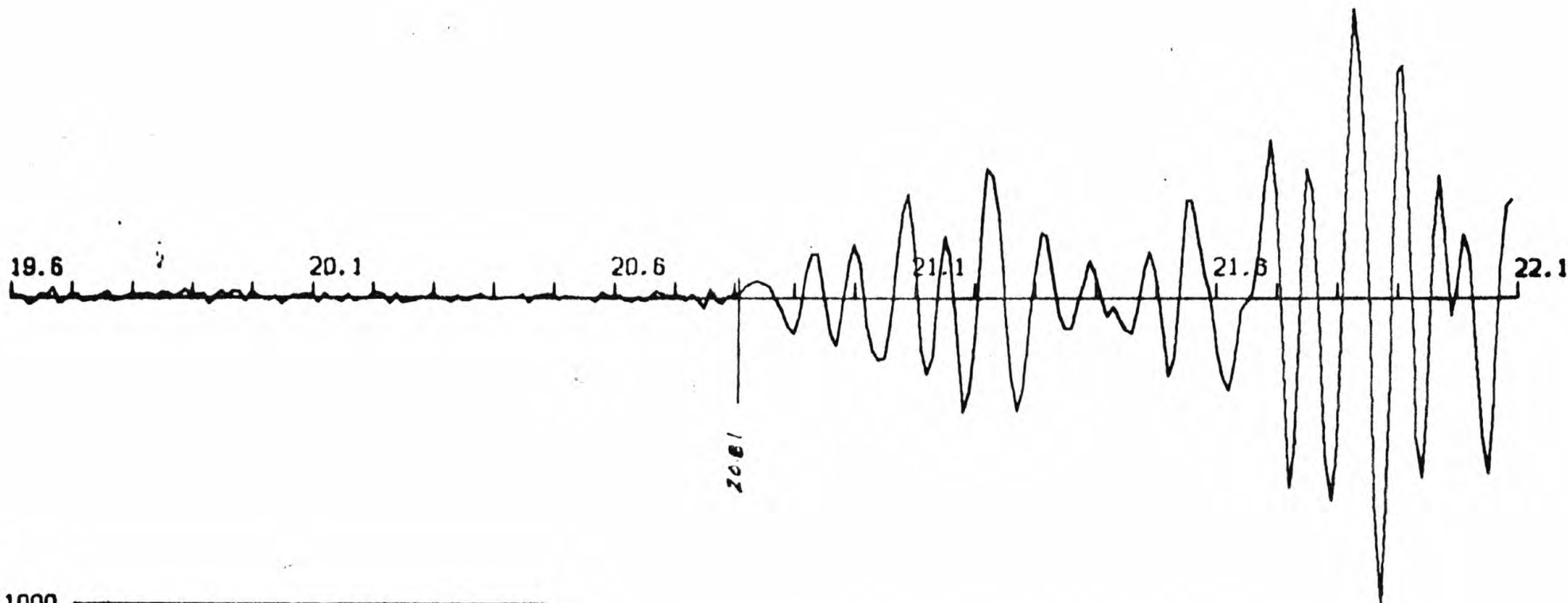
SAUDI ARABIAN REFRACTION PROFILE

SHOT POINT 5

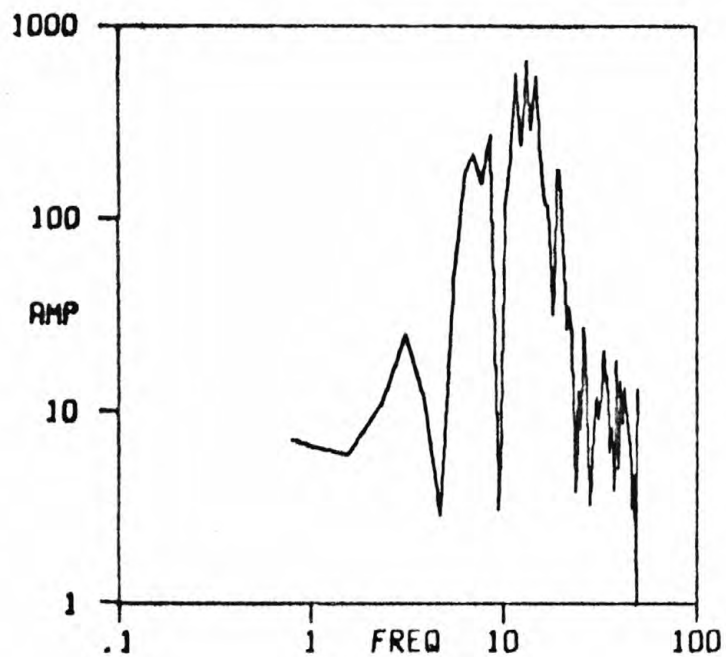
RECORDER LOCATION 584.

DISTANCE FROM SHOT (KM) = 129.311

TSCALE (CM/SEC) = 10.0



099



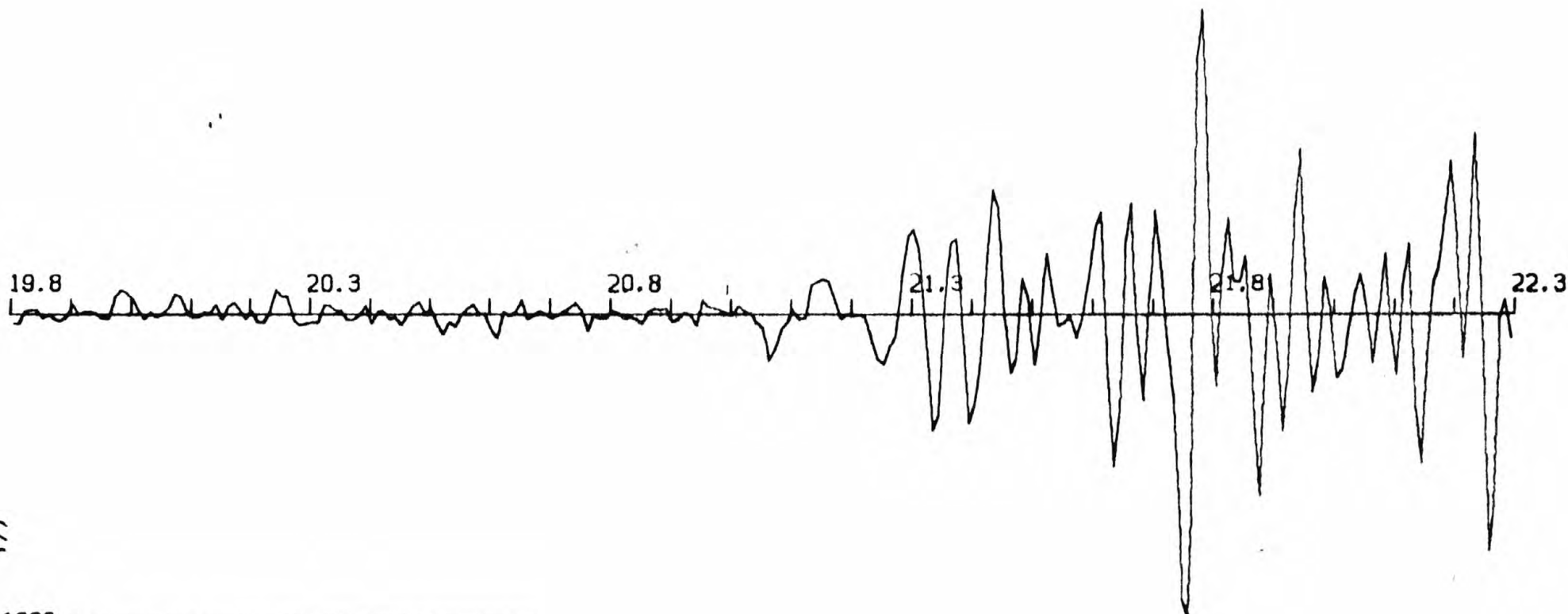
SAUDI ARABIAN REFRACTION PROFILE (SHP)

SHOT POINT 5

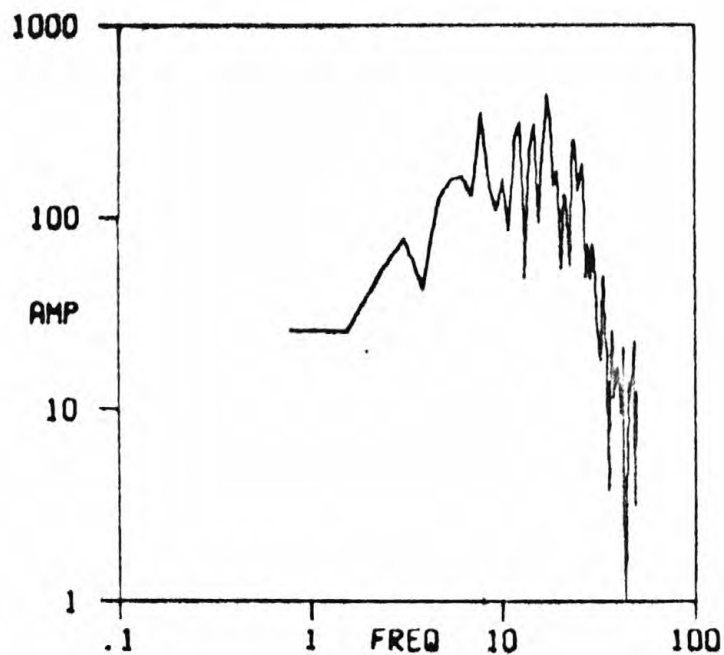
RECORDER LOCATION 584

DISTANCE FROM SHOT (KM) = 129.311

TSCALE (CM/SEC) = 10.0



199



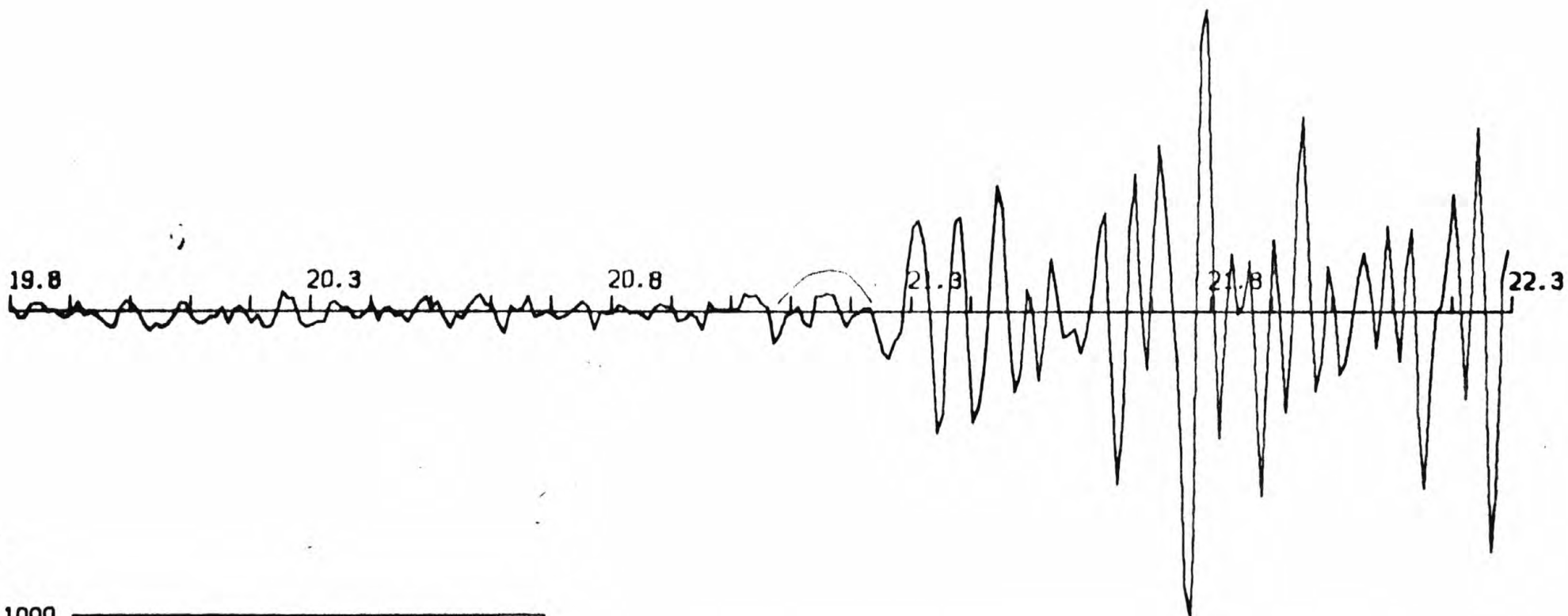
SAUDI ARABIAN REFRACTION PROFILE

SHOT POINT 5

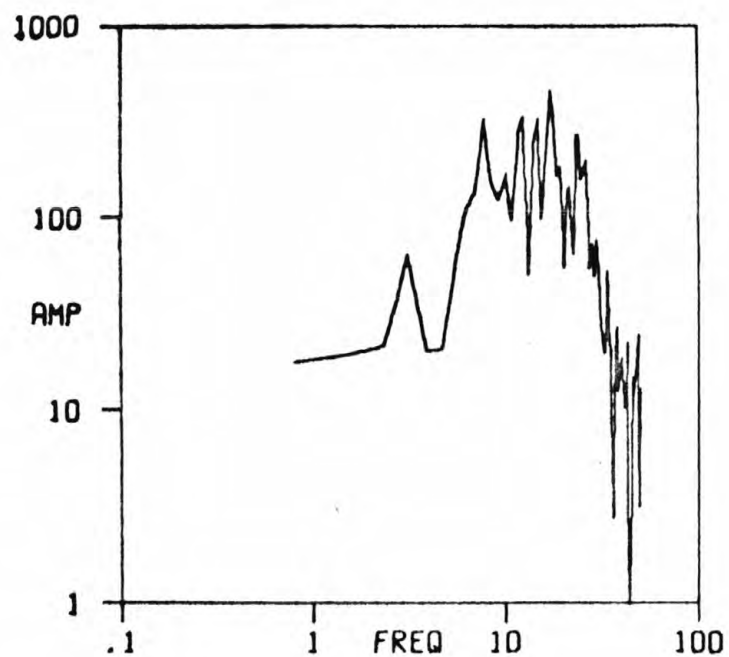
RECORDER LOCATION 583

DISTANCE FROM SHOT (KM) = 130.596

TSCALE (CM/SEC) = 10.0



662



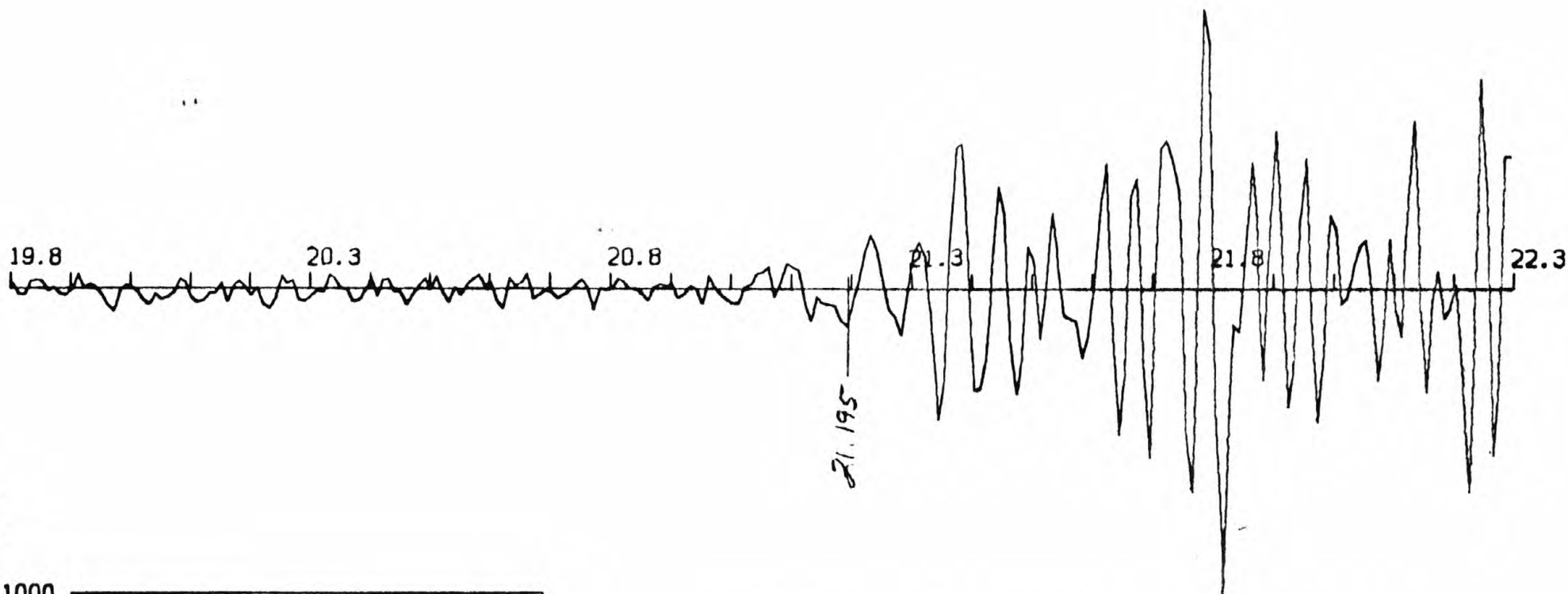
SAUDI ARABIAN REFRACTION PROFILE (SHP)

SHOT POINT 5

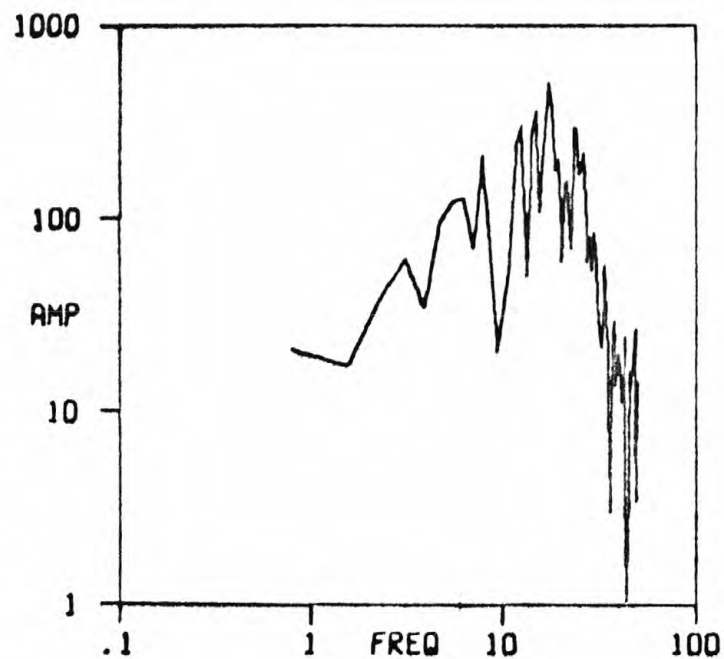
RECORDER LOCATION 583

DISTANCE FROM SHOT (KM) = 130.596

TSCALE (CM/SEC) = 10.0



697



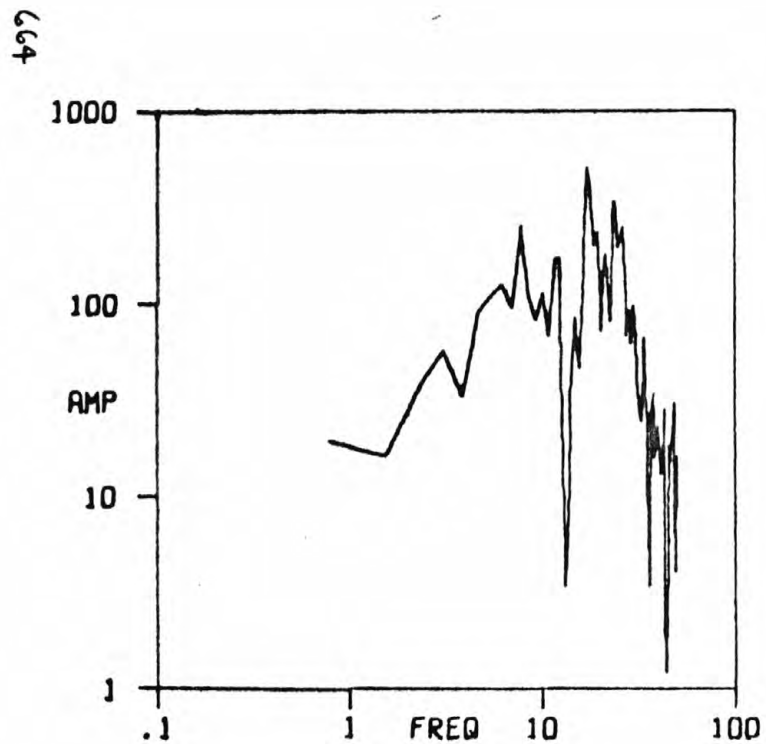
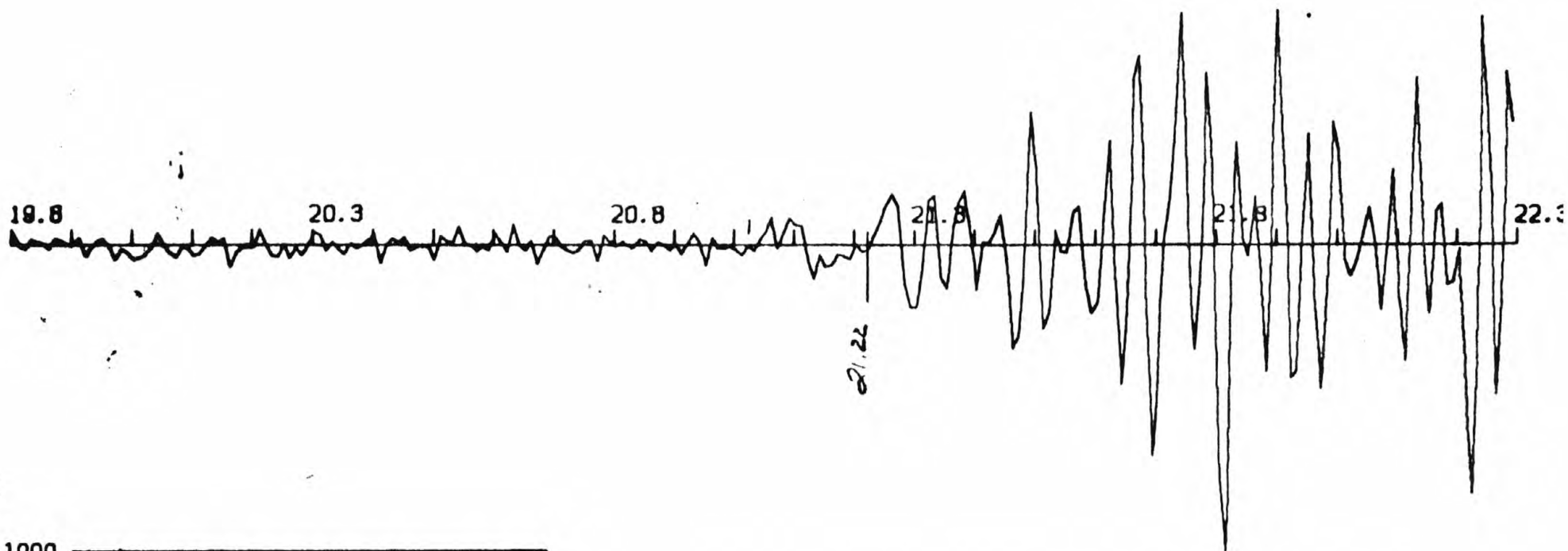
SAUDI ARABIAN REFRACTION PROFILE (10HP)

SHOT POINT 5

RECORDER LOCATION 583

DISTANCE FROM SHOT (KM) = 130.596

TSCALE (CM/SEC) = 10.0



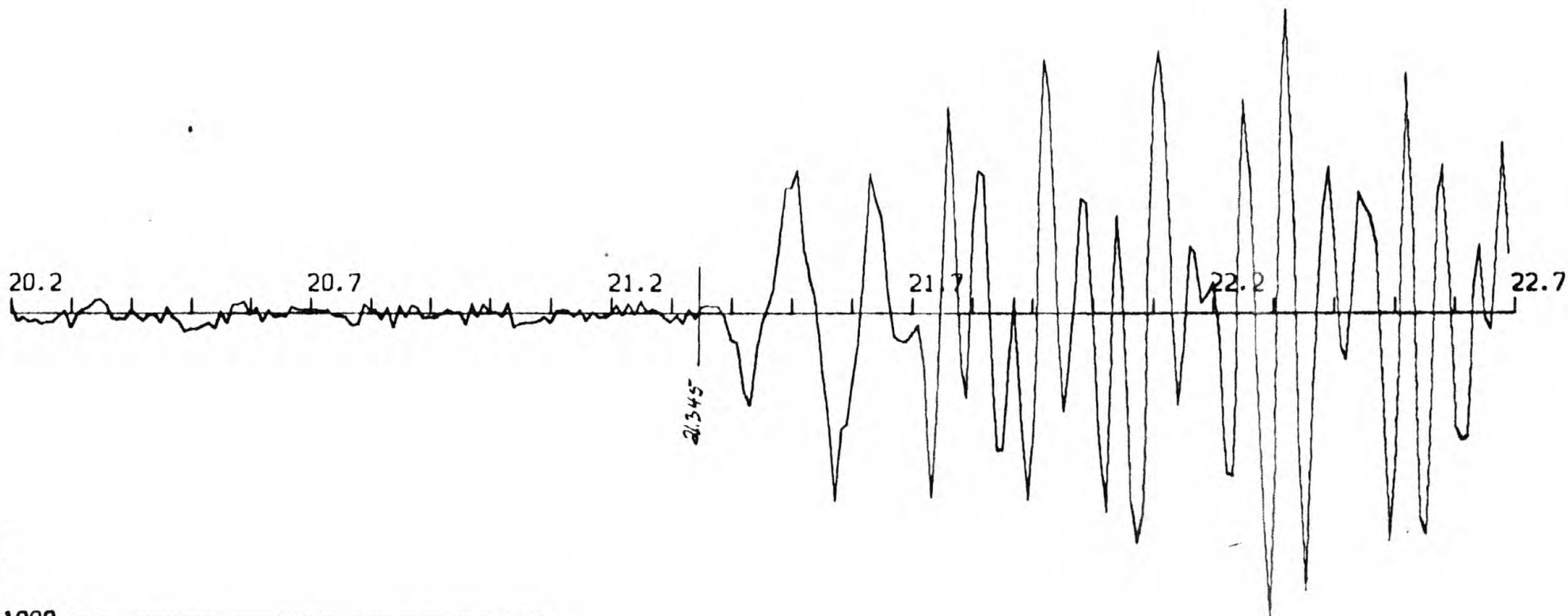
SAUDI ARABIAN REFRACTION PROFILE (15HP)

SHOT POINT 5

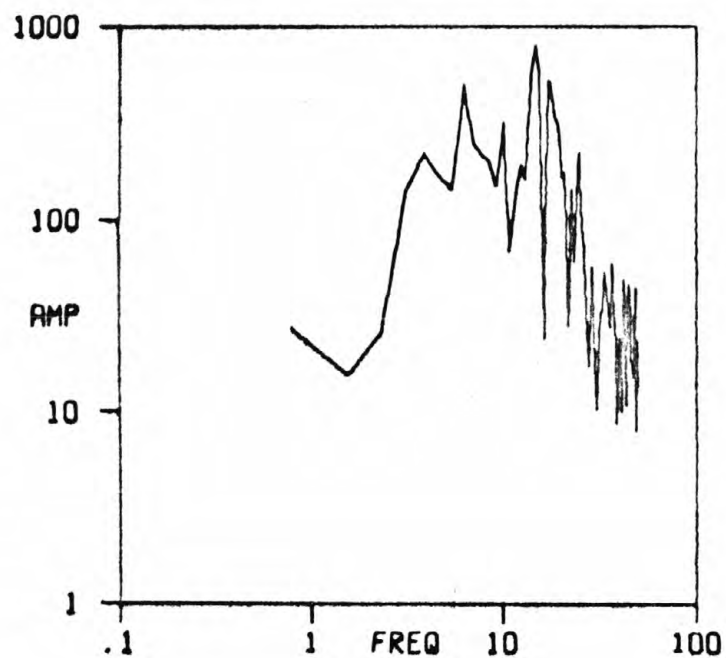
RECORDER LOCATION 583

DISTANCE FROM SHOT (KM) = 130.596

TSCALE (CM/SEC) = 10.0



579



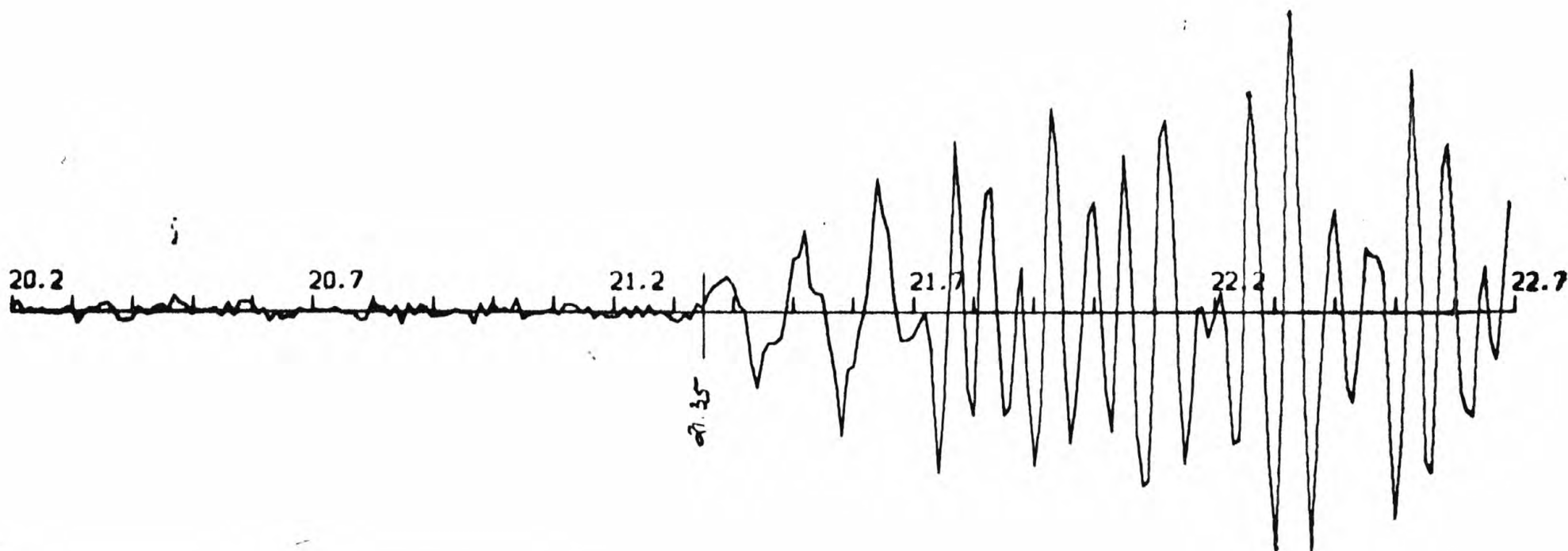
SAUDI ARABIAN REFRACTION PROFILE

SHOT POINT 5

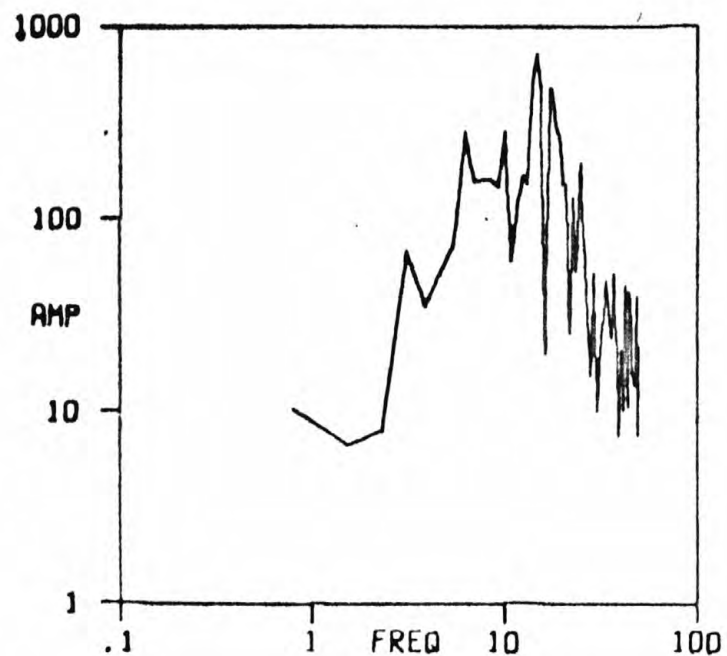
RECORDER LOCATION 582

DISTANCE FROM SHOT (KM) = 132.973

TSCALE (CM/SEC) = 10.0



999



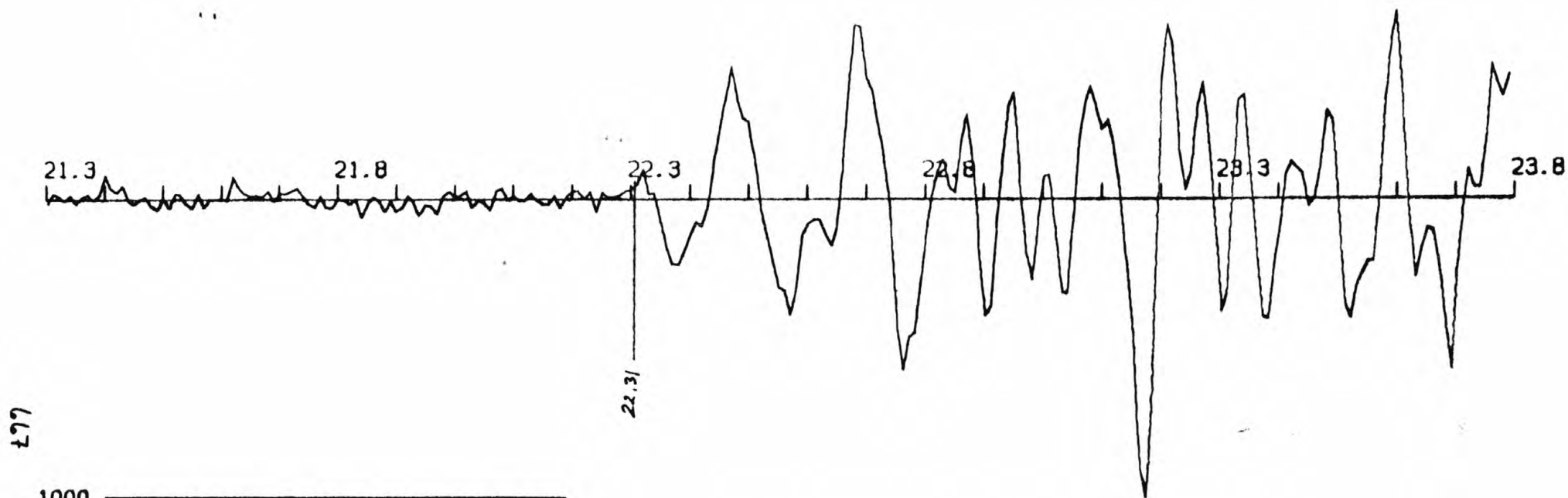
SAUDI ARABIAN REFRACTION PROFILE (SHP)

SHOT POINT 5

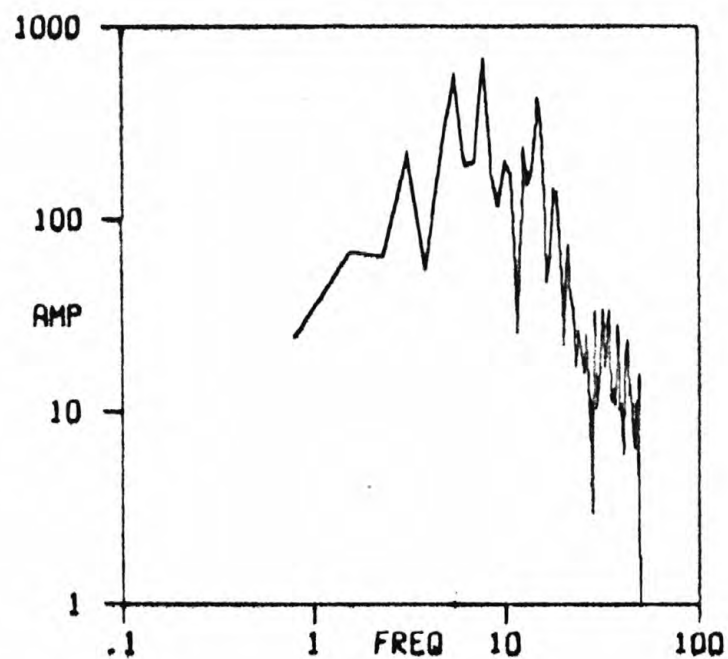
RECORDER LOCATION 582

DISTANCE FROM SHOT (KM) = 132.973

TSCALE (CM/SEC) = 10.0



277



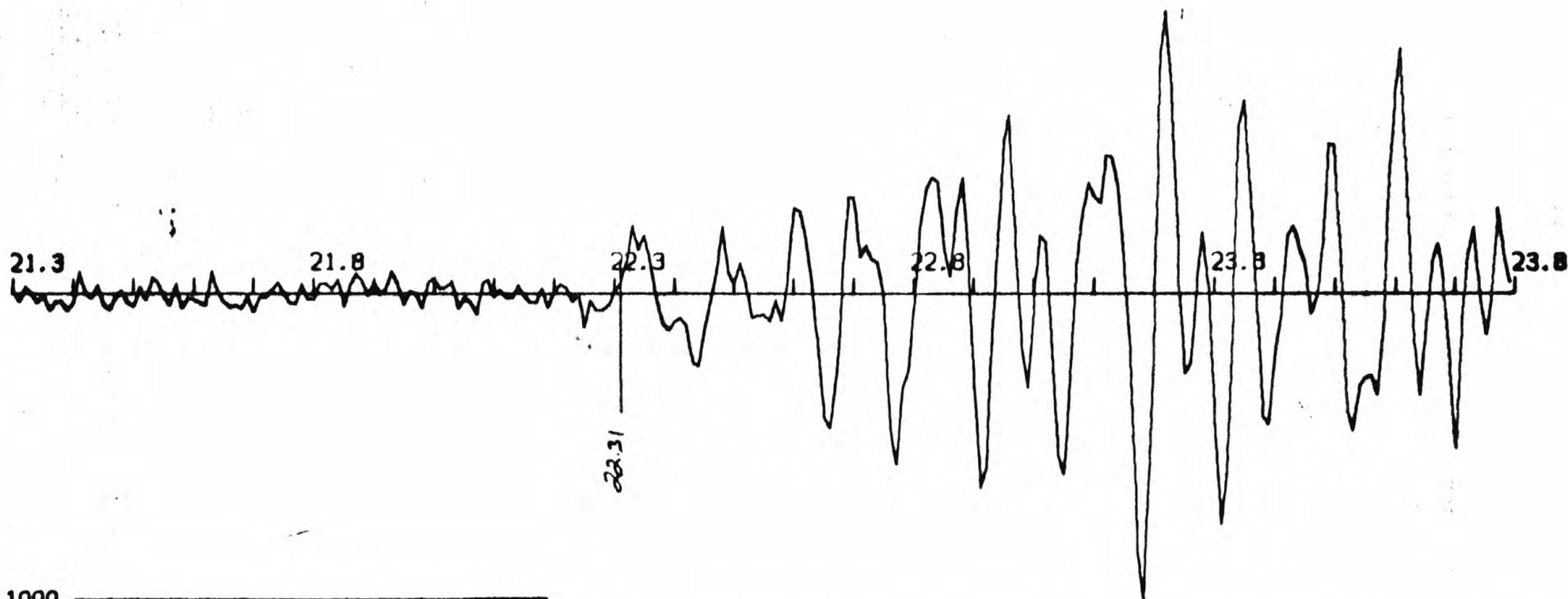
SAUDI ARABIAN REFRACTION PROFILE

SHOT POINT 5

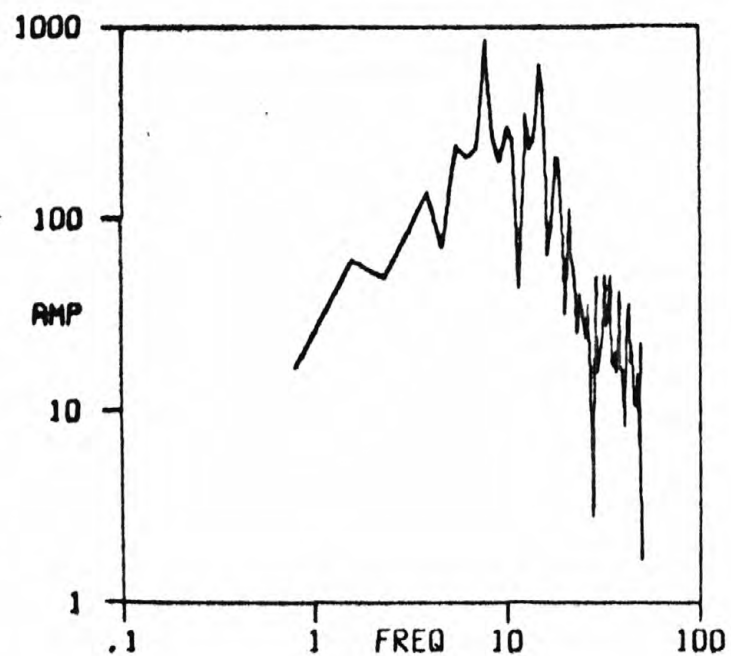
RECORDER LOCATION 580

DISTANCE FROM SHOT (KM) = 139.462

TSCALE (CM/SEC) = 10.0



877



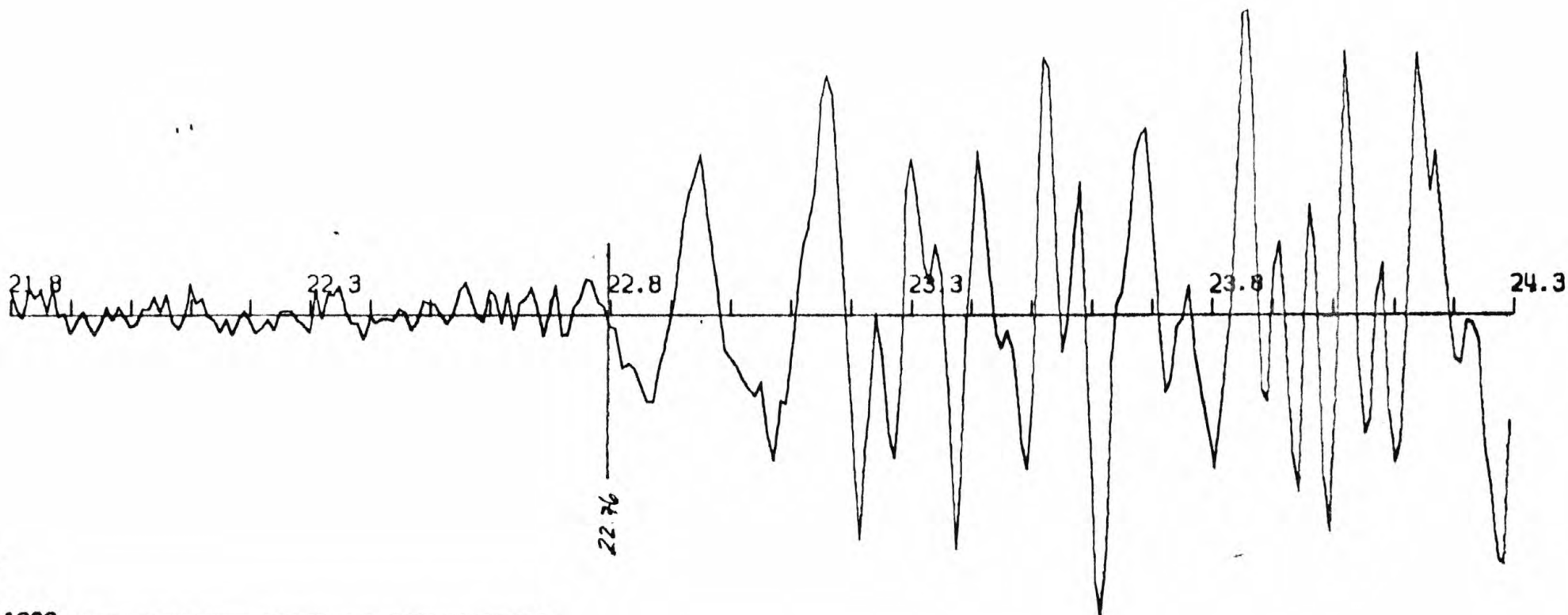
SAUDI ARABIAN REFRACTION PROFILE (SHP)

SHOT POINT 5

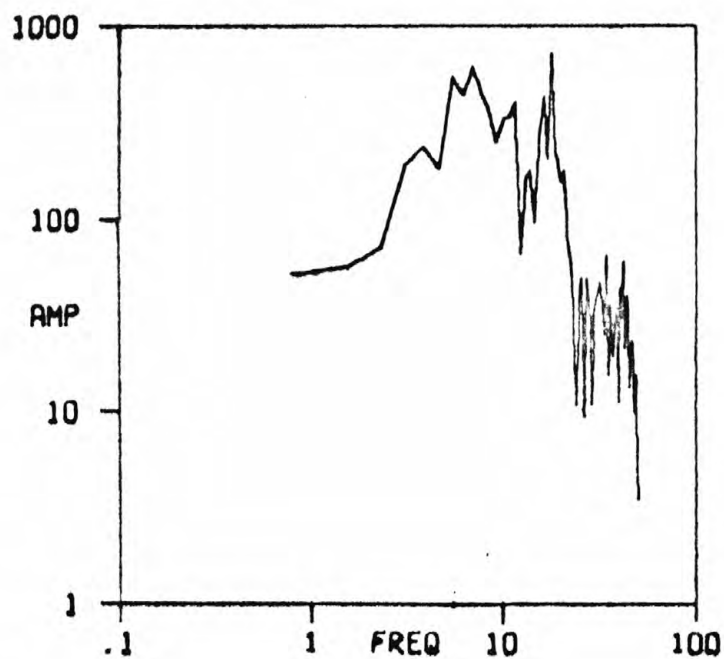
RECORDER LOCATION 580

DISTANCE FROM SHOT (KM) = 139.462

TSCALE (CM/SEC) = 10.0



696



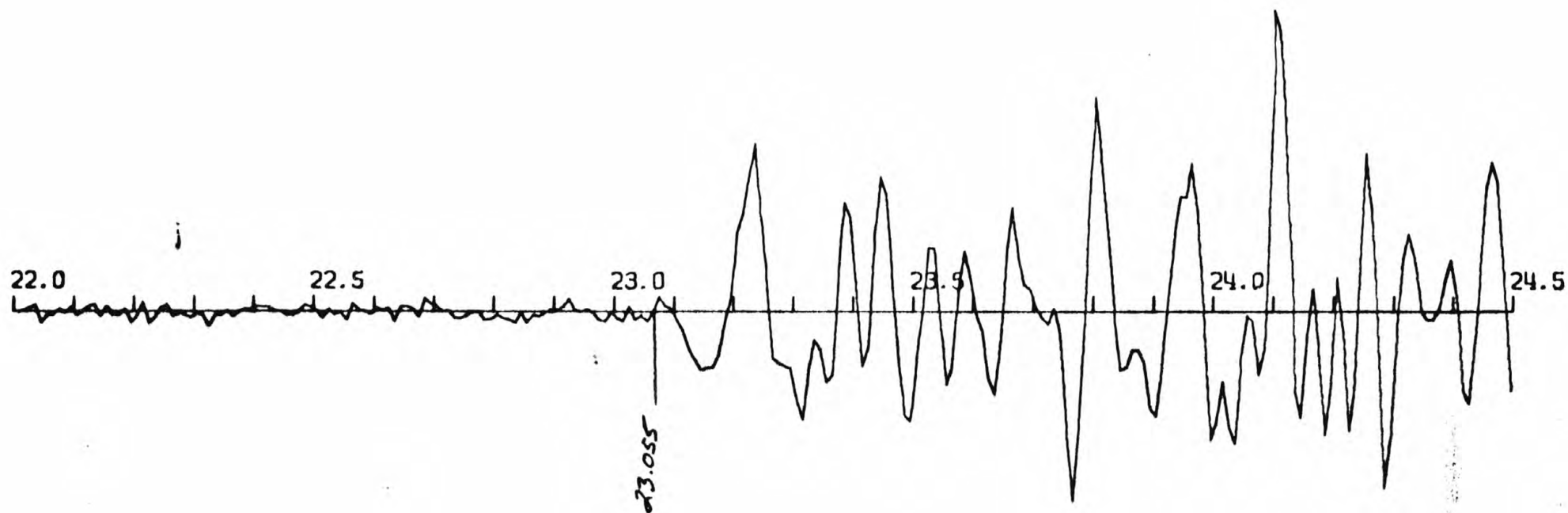
SAUDI ARABIAN REFRACTION PROFILE

SHOT POINT 5

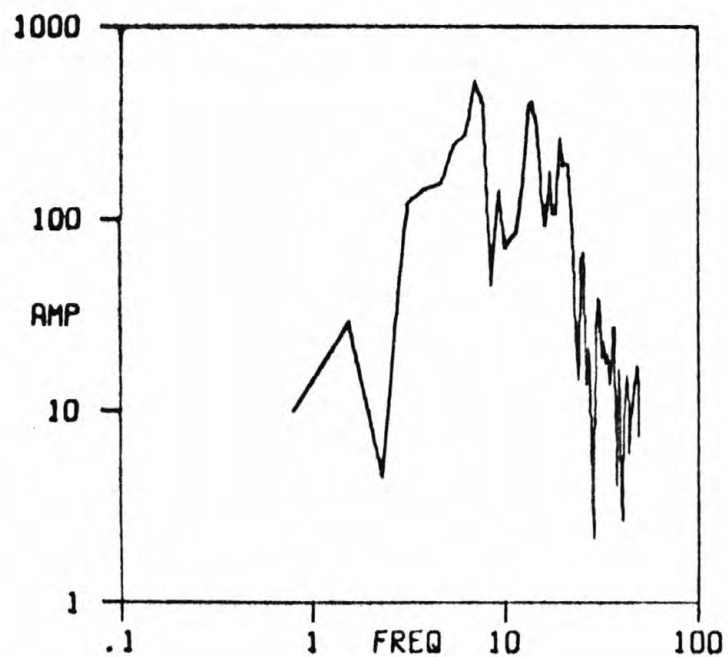
RECORDER LOCATION 578

DISTANCE FROM SHOT (KM) = 142.633

TSCALE (CM/SEC) = 10.0



0.70



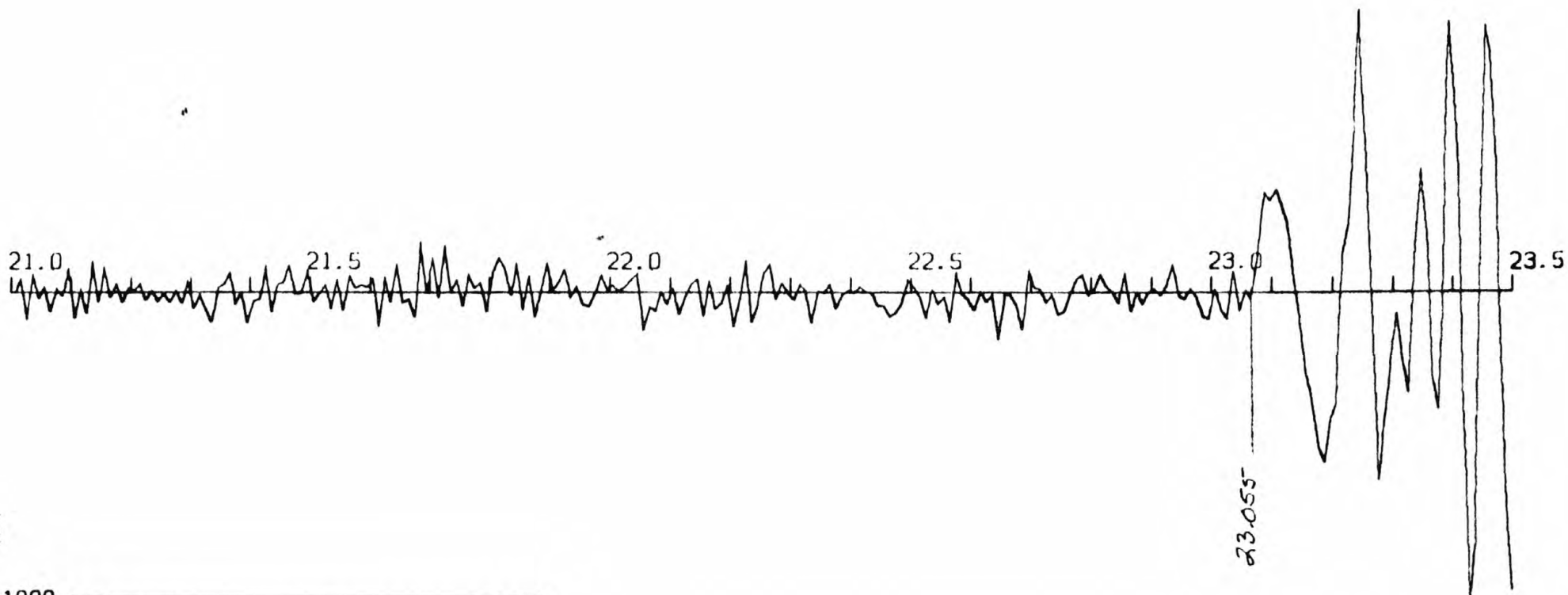
SAUDI ARABIAN REFRACTION PROFILE

SHOT POINT 5

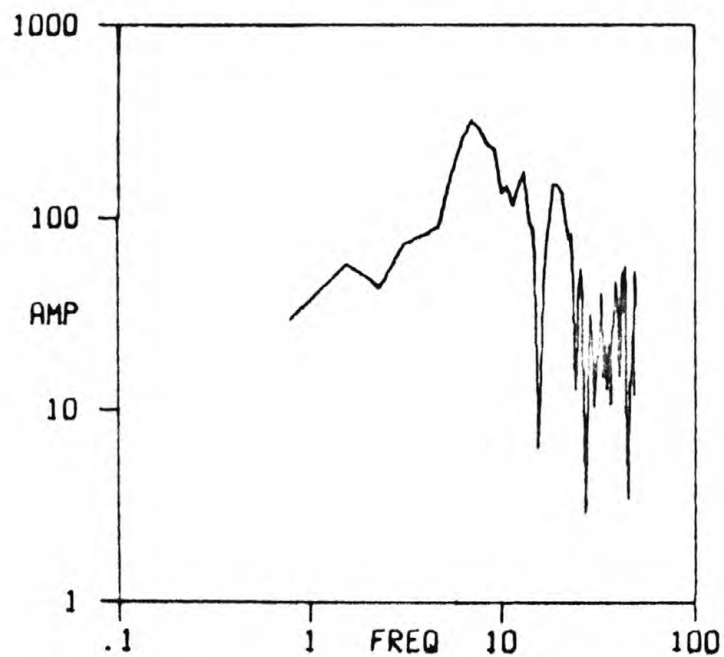
RECORDER LOCATION 577

DISTANCE FROM SHOT (KM) = 143.810

TSCALE (CM/SEC) = 10.0



147



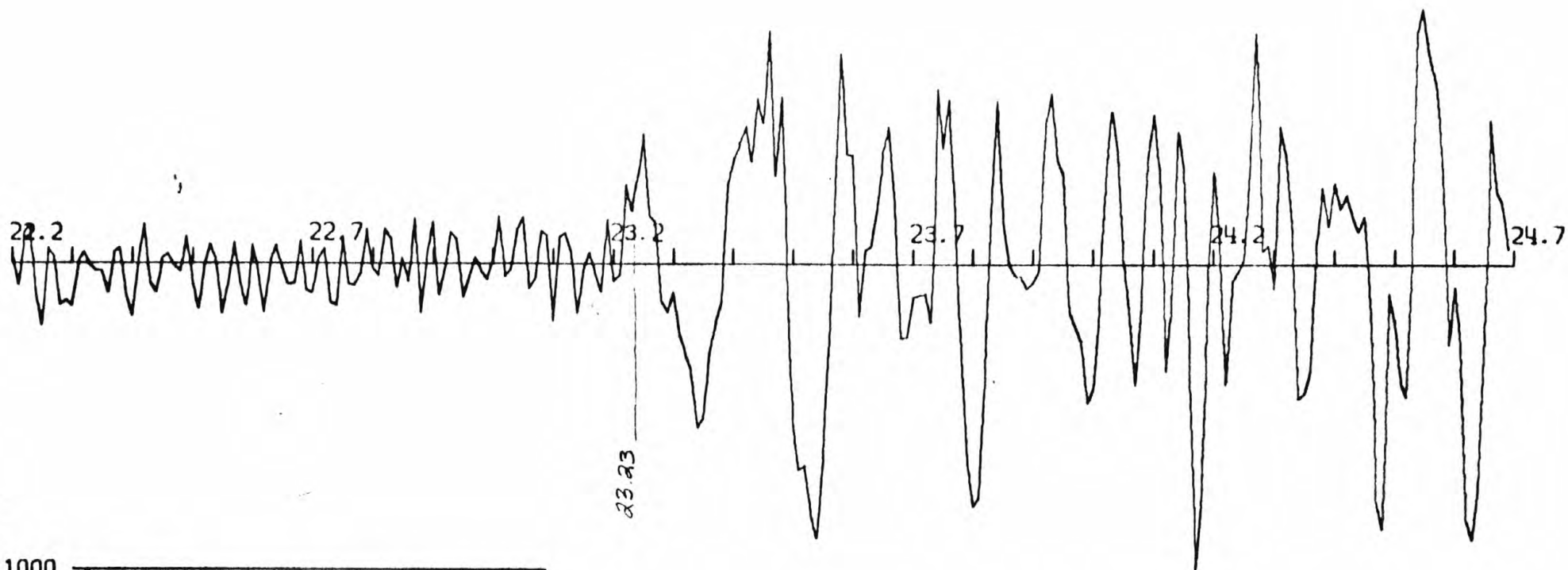
SAUDI ARABIAN REFRACTION PROFILE (SHP)

SHOT POINT 5

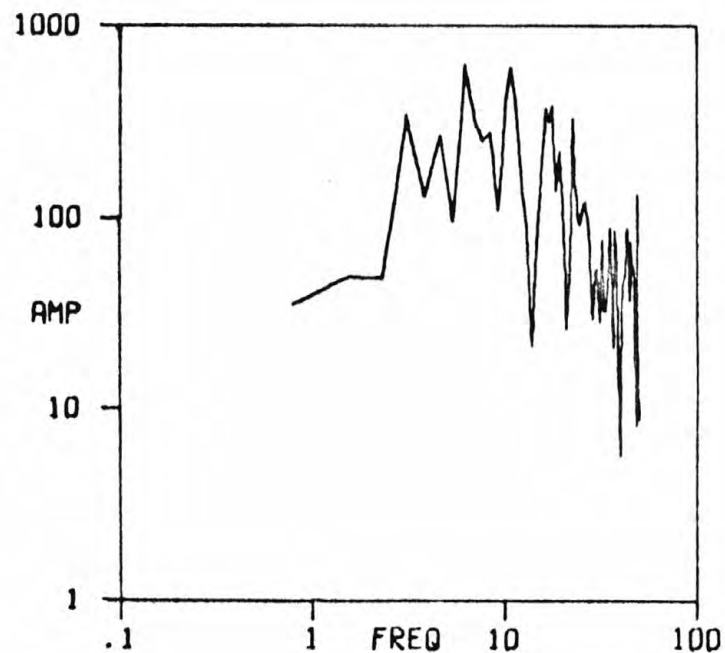
RECORDER LOCATION 577

DISTANCE FROM SHOT (KM) = 143.810

TSCALE (CM/SEC) = 10.0



672



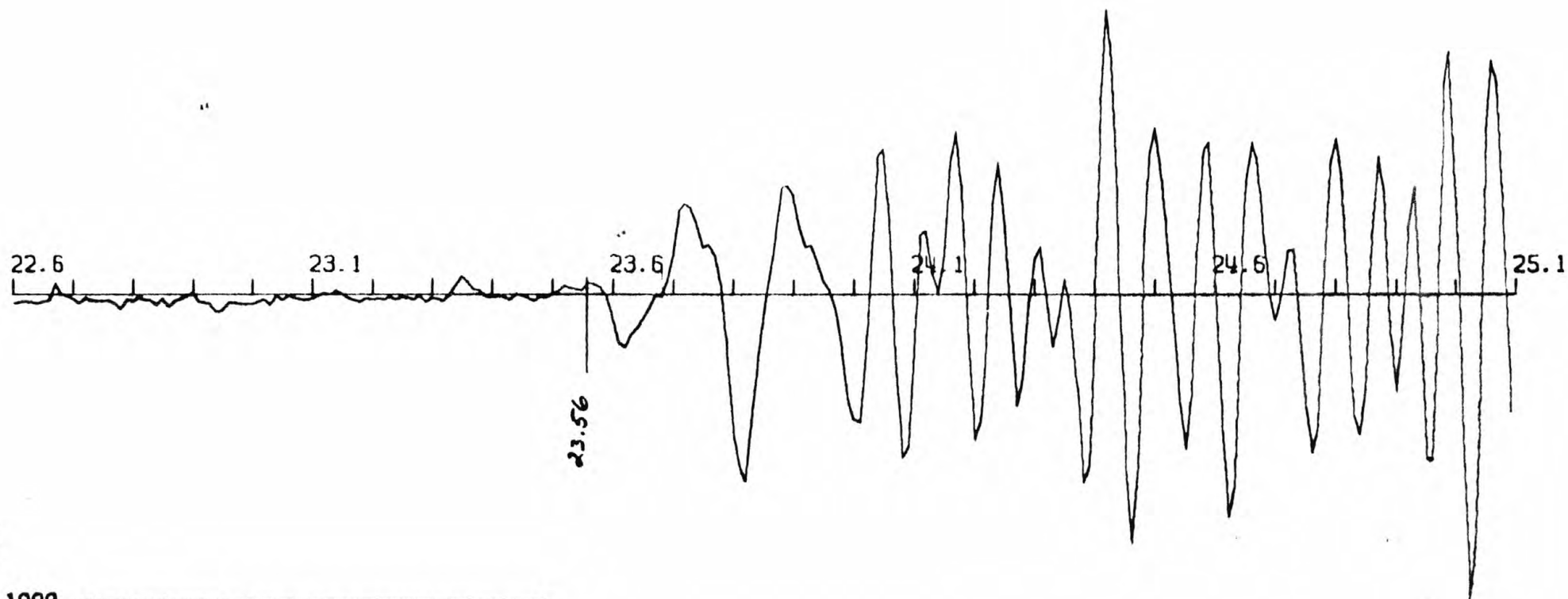
SAUDI ARABIAN REFRACTION PROFILE (15HP)

SHOT POINT 5

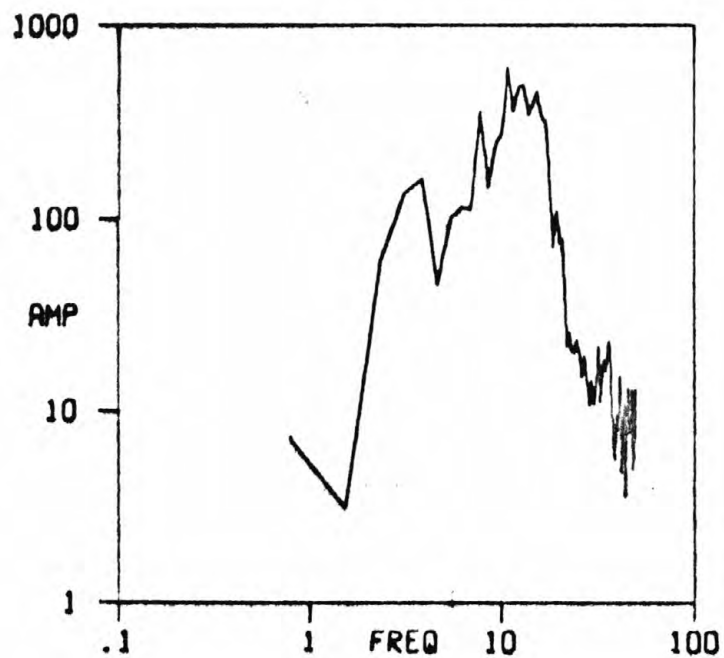
RECORDER LOCATION 576

DISTANCE FROM SHOT (KM) = 145.096

TSCALE (CM/SEC) = 10.0



673



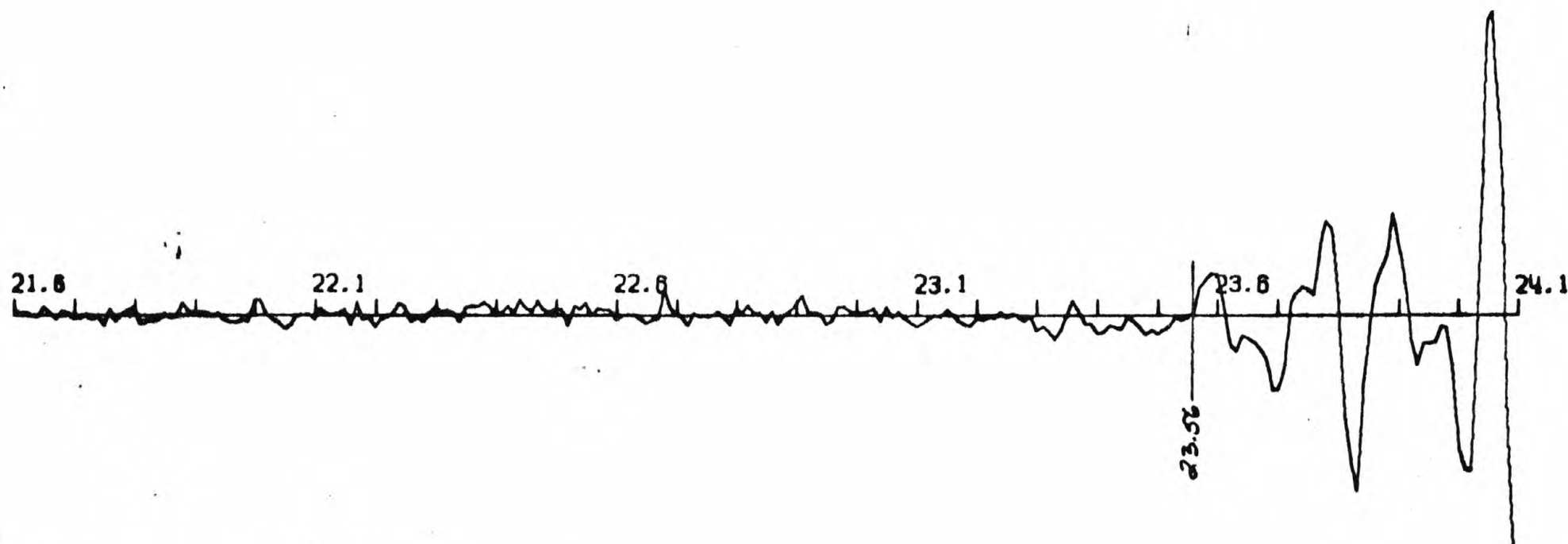
SAUDI ARABIAN REFRACTION PROFILE

SHOT POINT 5

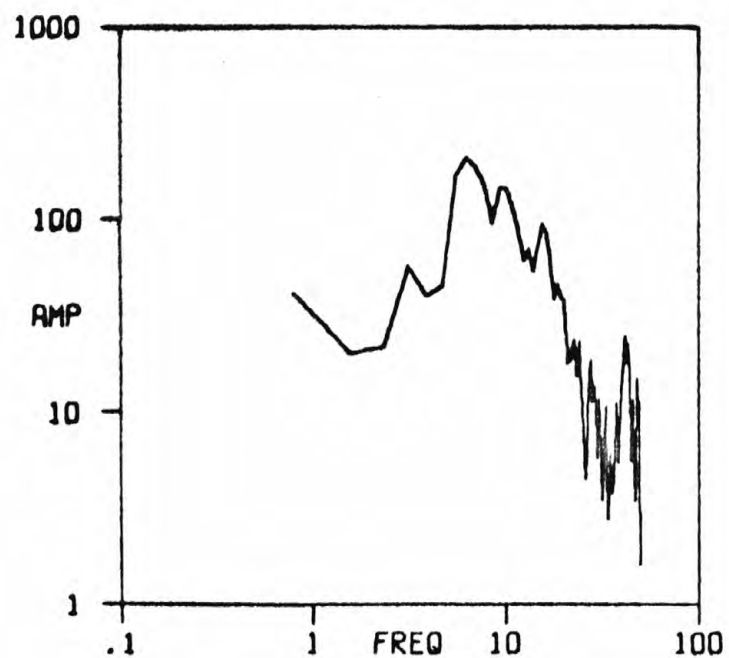
RECORDER LOCATION 575

DISTANCE FROM SHOT (KM) = 147.434

TSCALE (CM/SEC) = 10.0



674



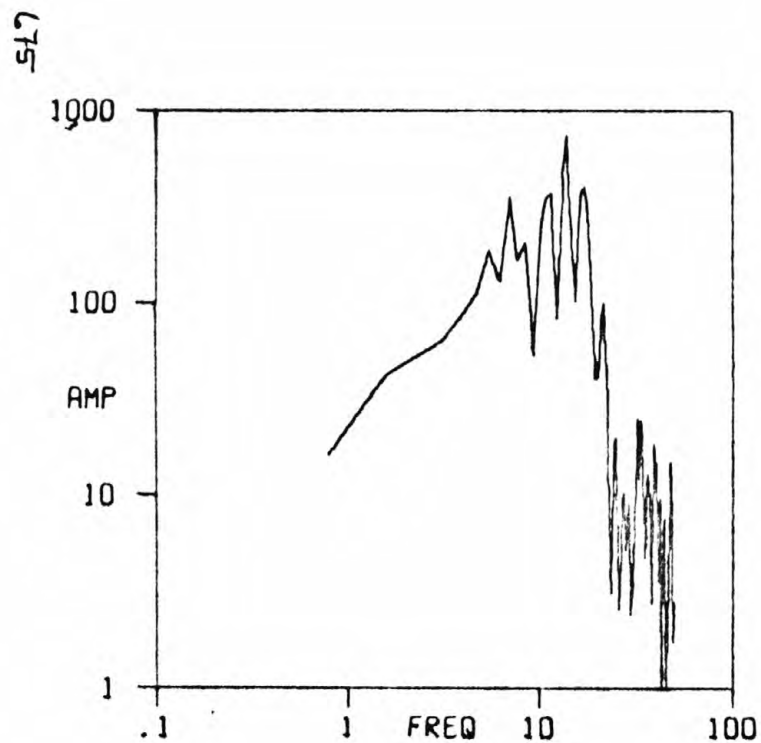
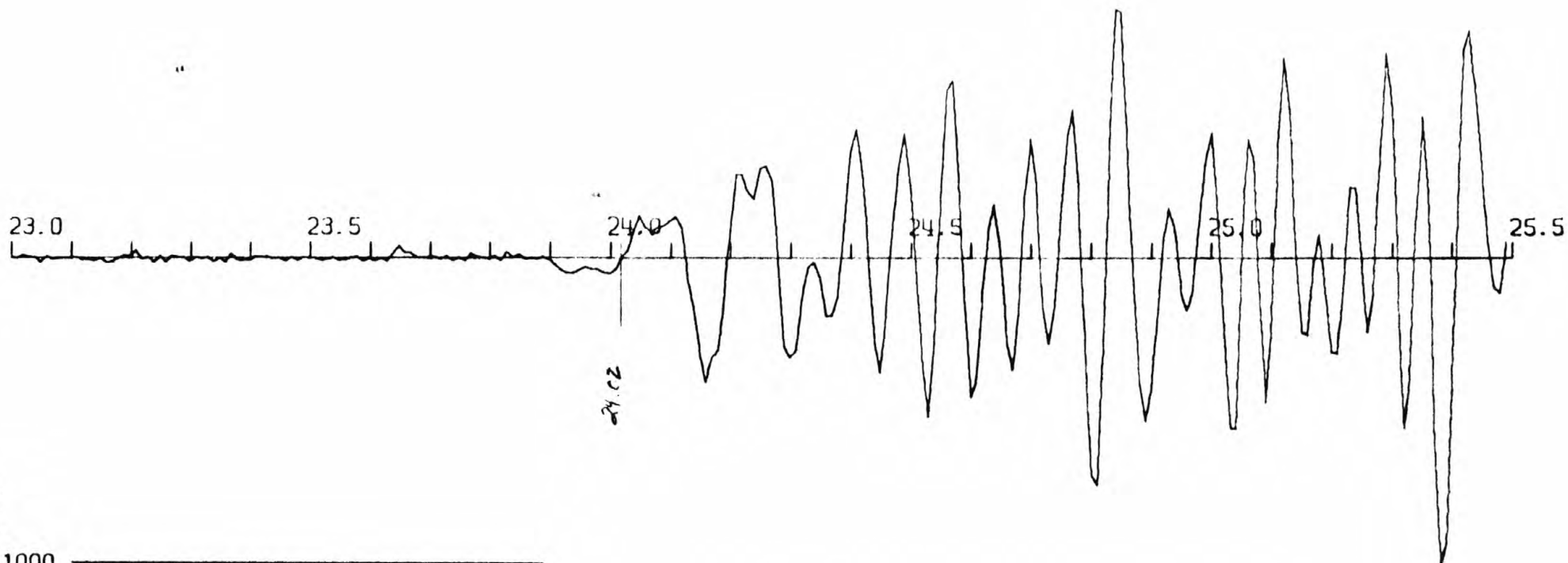
SAUDI ARABIAN REFRACTION PROFILE (5HP)

SHOT POINT 5

RECORDER LOCATION 575

DISTANCE FROM SHOT (KM) = 147.434

TSCALE (CM/SEC) = 10.0



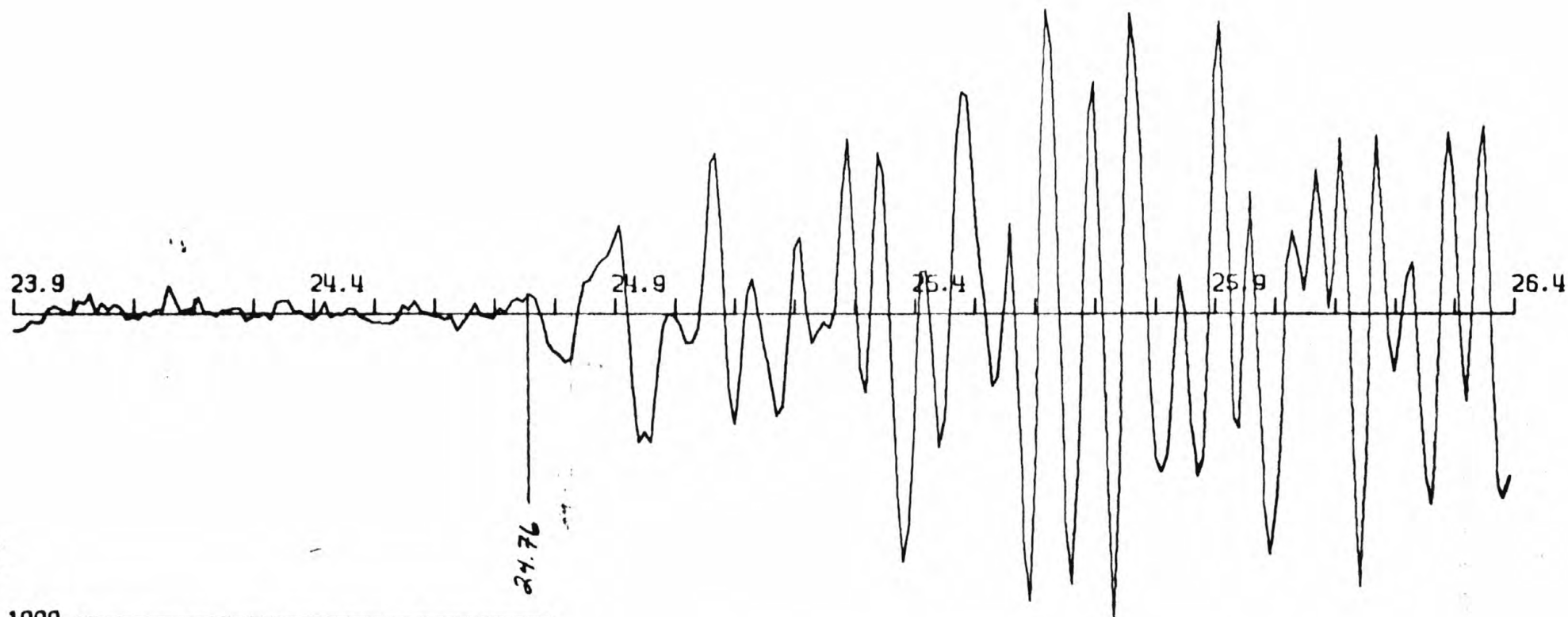
SAUDI ARABIAN REFRACTION PROFILE

SHOT POINT 5

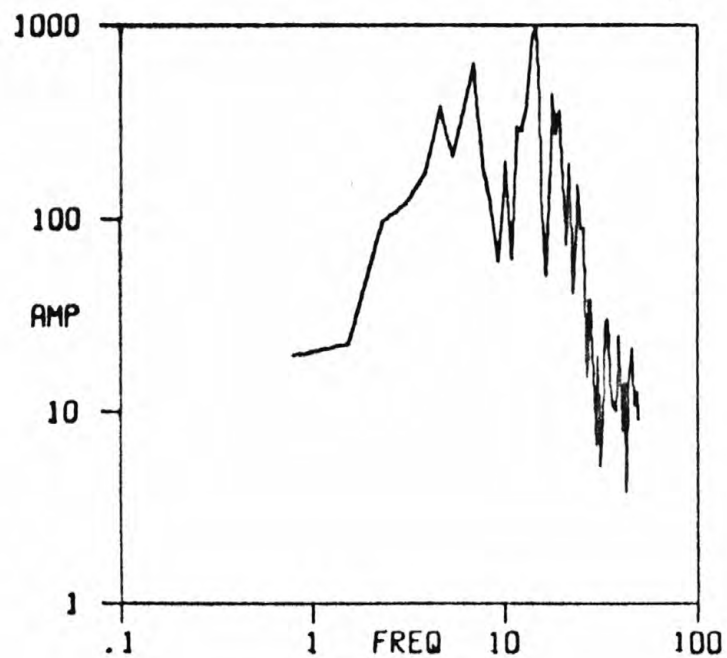
RECORDER LOCATION 574

DISTANCE FROM SHOT (KM) = 149.889

TSCALE (CM/SEC) = 10.0



976



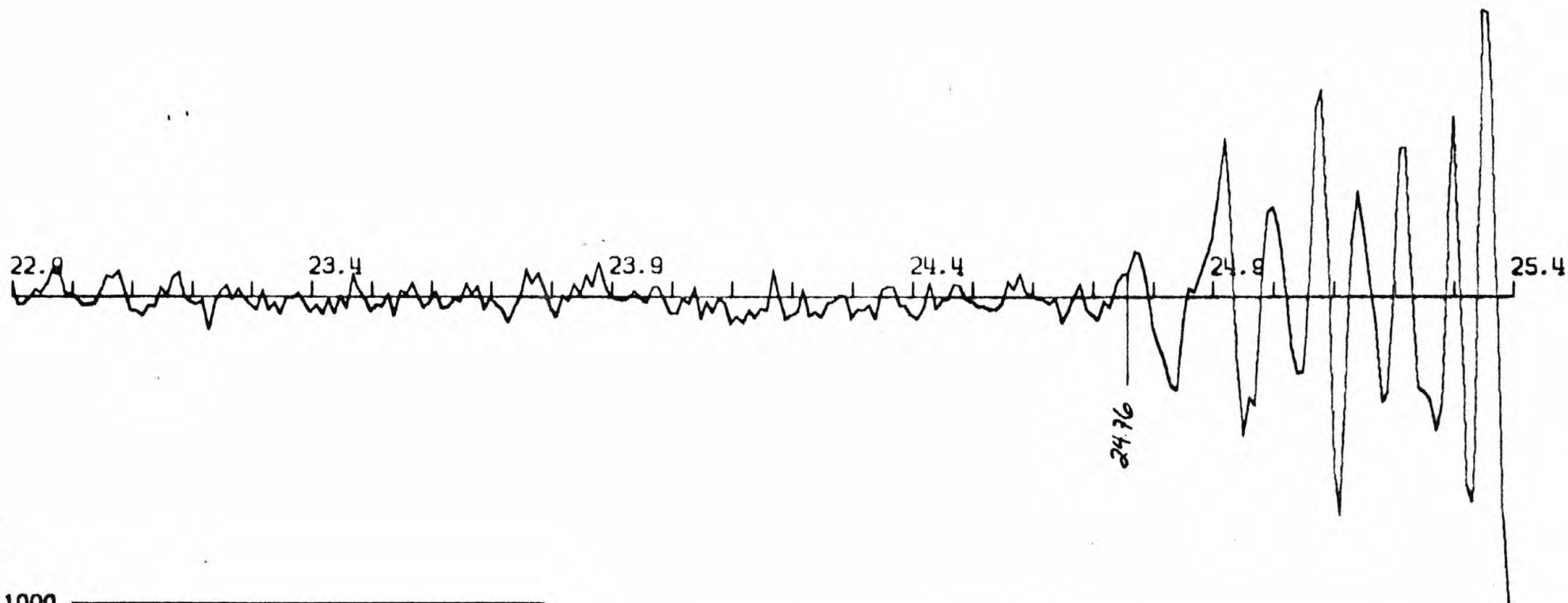
SAUDI ARABIAN REFRACTION PROFILE

SHOT POINT 5

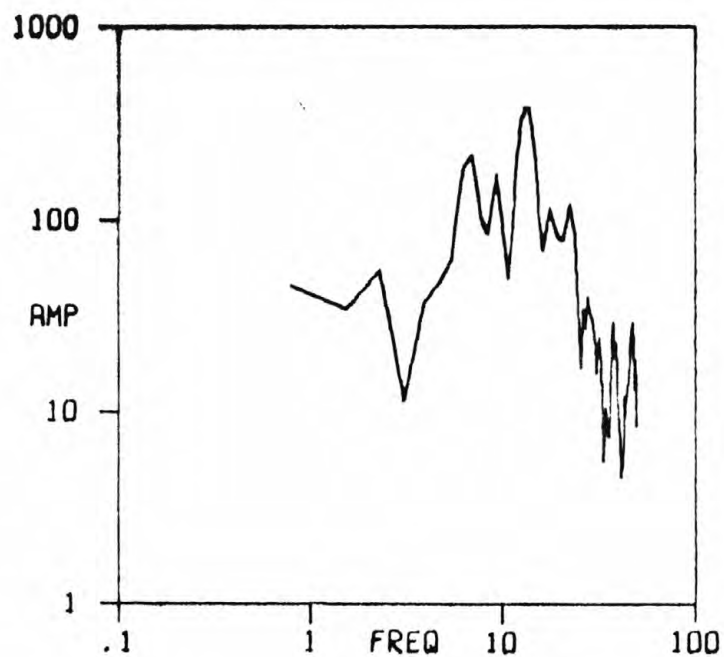
RECORDER LOCATION 572

DISTANCE FROM SHOT (KM) = 155.044

TSCALE (CM/SEC) = 10.0



117



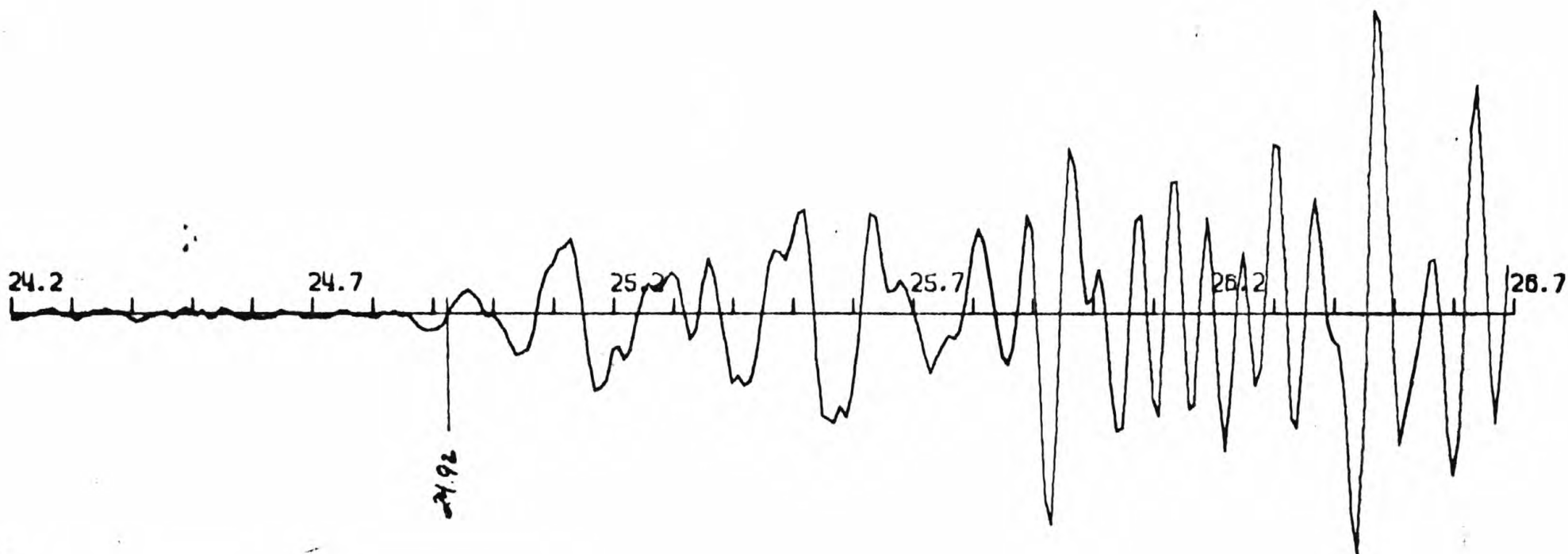
SAUDI ARABIAN REFRACTION PROFILE (SHP)

SHOT POINT 5

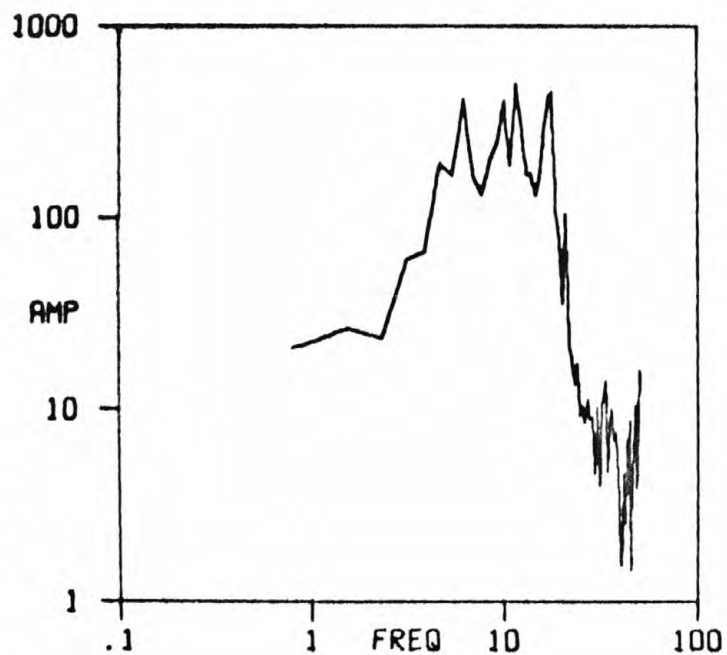
RECORDER LOCATION 572

DISTANCE FROM SHOT (KM) = 155.044

TSCALE (CM/SEC) = 10.0



878



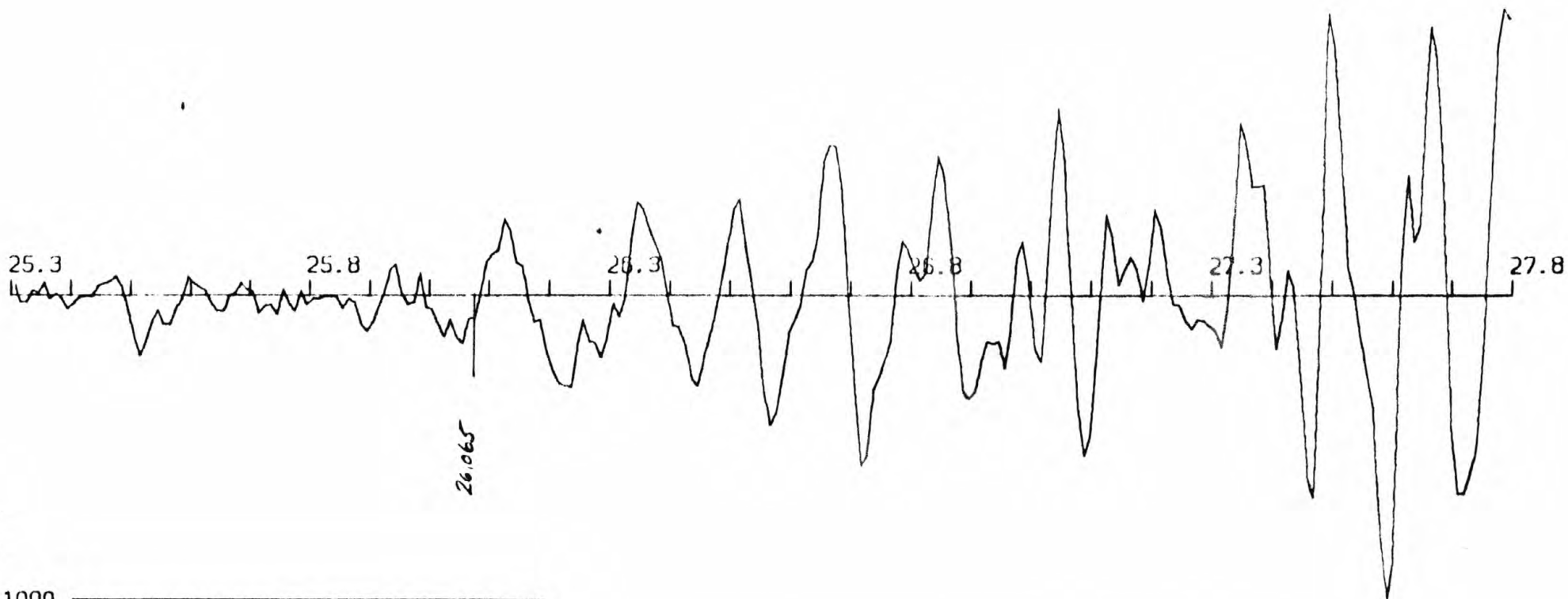
SAUDI ARABIAN REFRACTION PROFILE

SHOT POINT 5

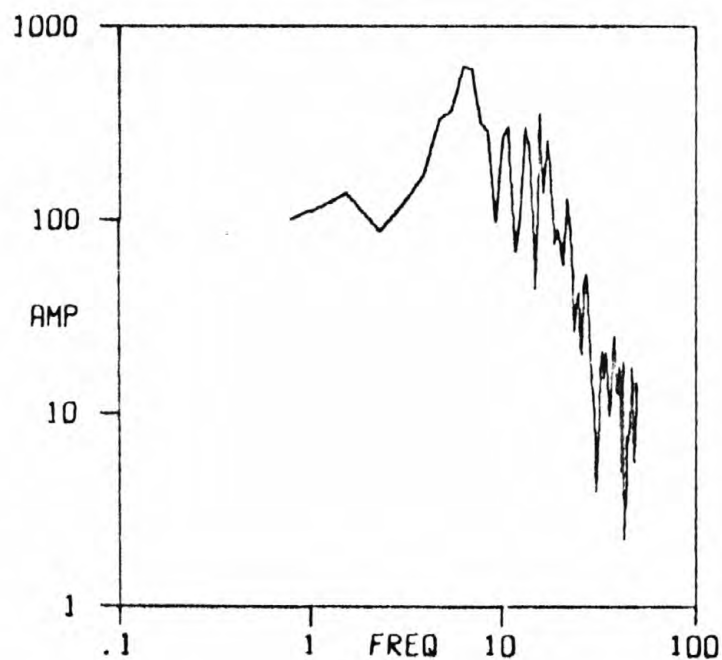
RECORDER LOCATION S71

DISTANCE FROM SHOT (KM) = 156.606

TSCALE (CM/SEC) = 10.0



679



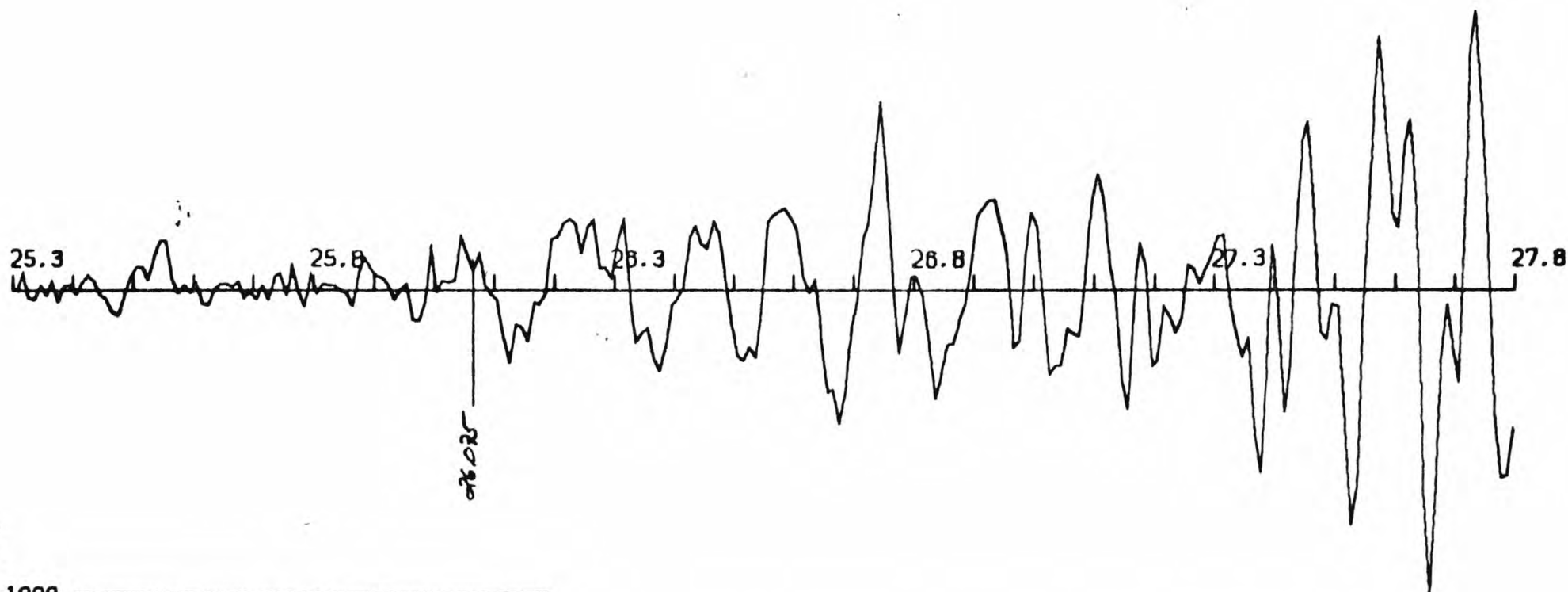
SAUDI ARABIAN REFRACTION PROFILE

SHOT POINT 5

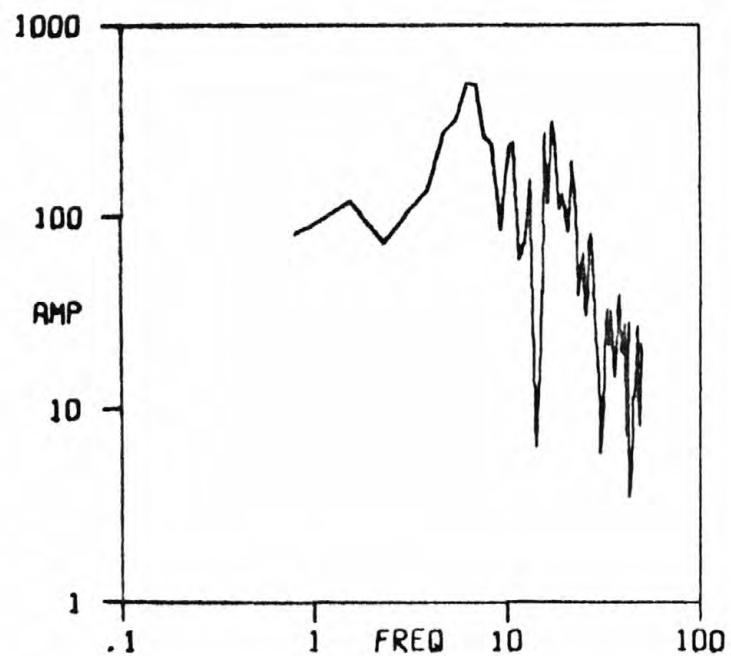
RECORDER LOCATION 567

DISTANCE FROM SHOT (KM) = 163.491

TSCALE (CM/SEC) = 10.0



08025



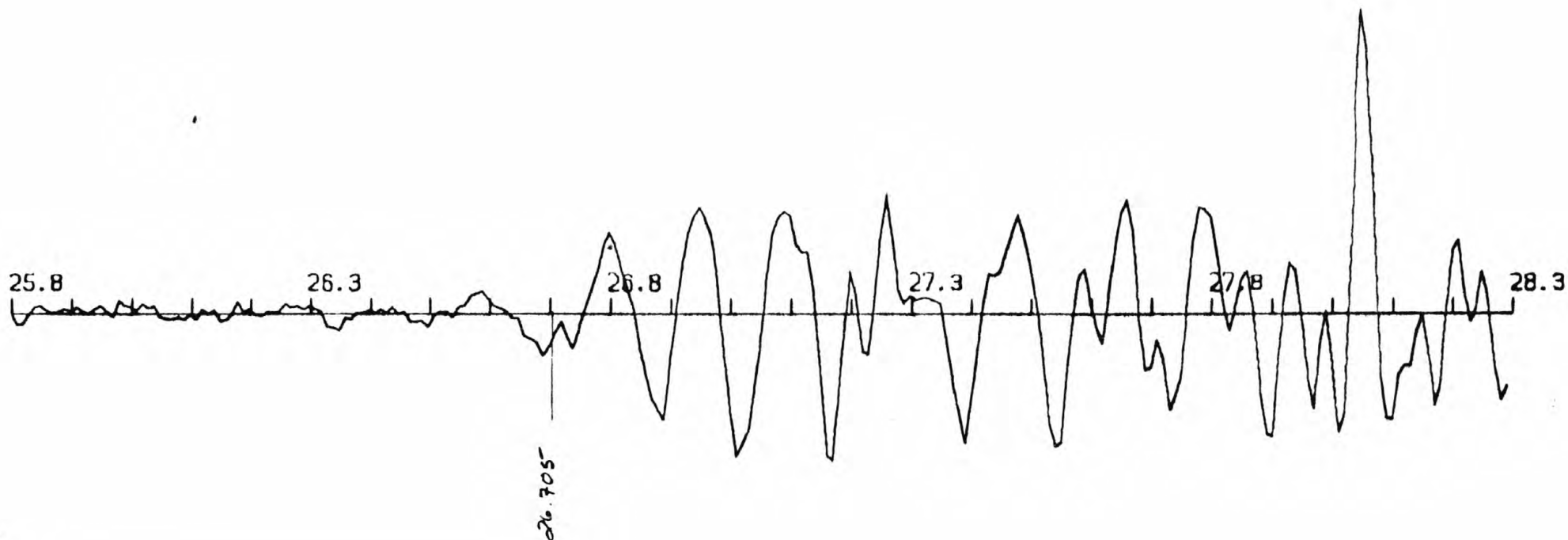
SAUDI ARABIAN REFRACTION PROFILE (15HP)

SHOT POINT 5

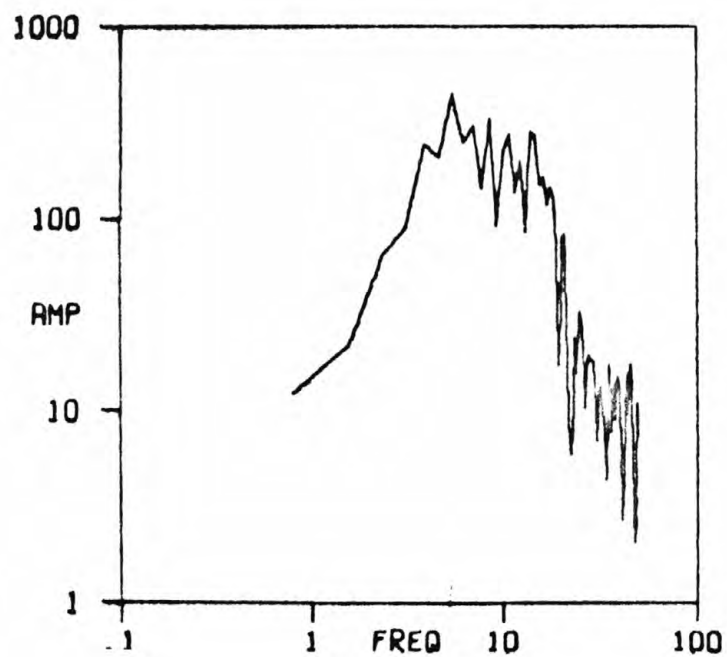
RECORDER LOCATION 587

DISTANCE FROM SHOT (KM) = 163.491

TSCALE (CM/SEC) = 10.0



189



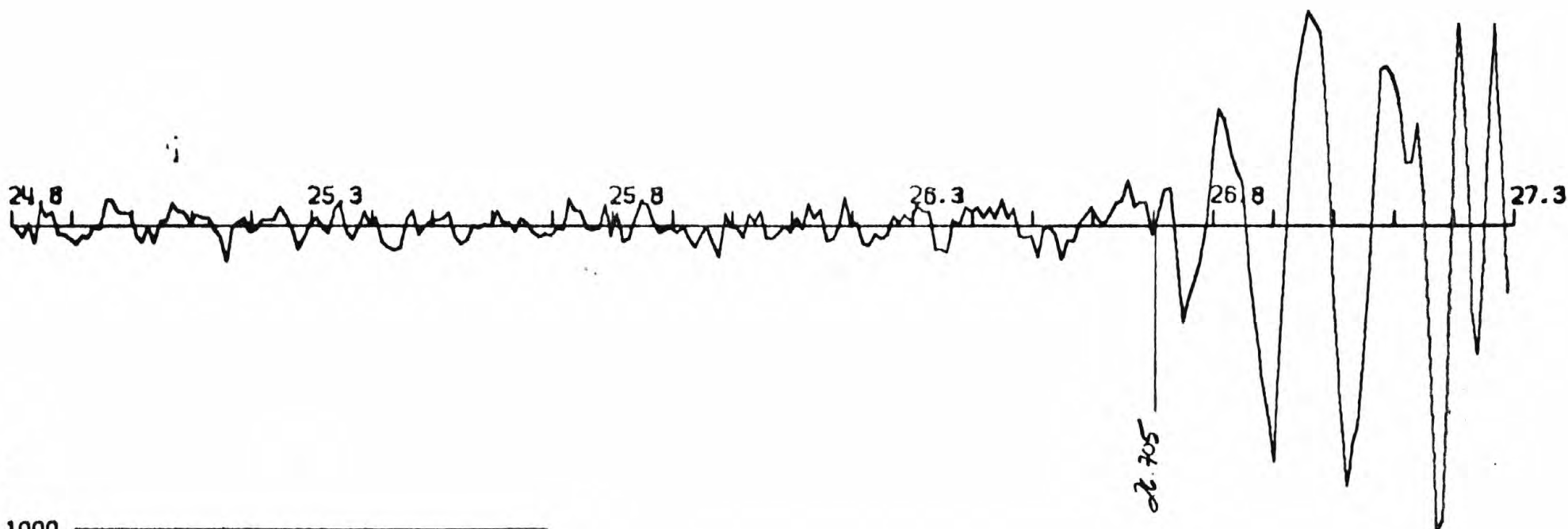
SAUDI ARABIAN REFRACTION PROFILE

SHOT POINT 5

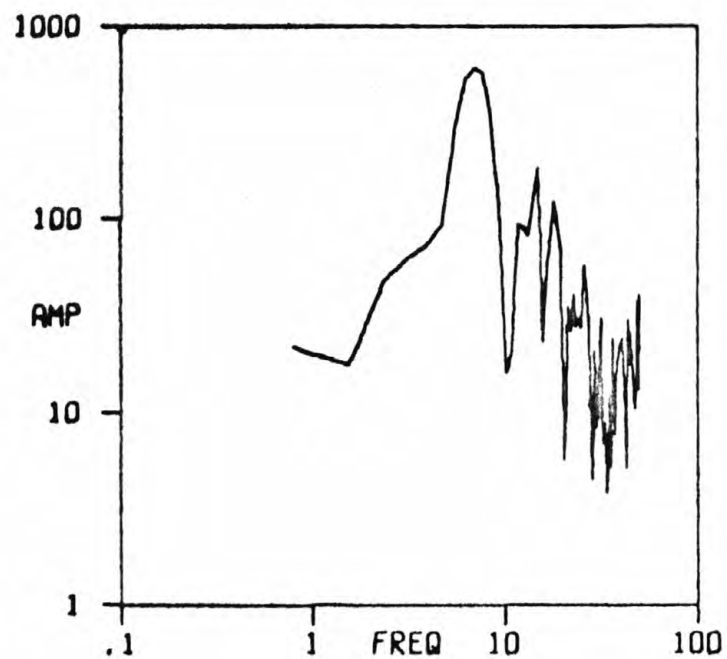
RECORDER LOCATION 566

DISTANCE FROM SHOT (KM) = 166.264

TSCALE (CM/SEC) = 10.0



682



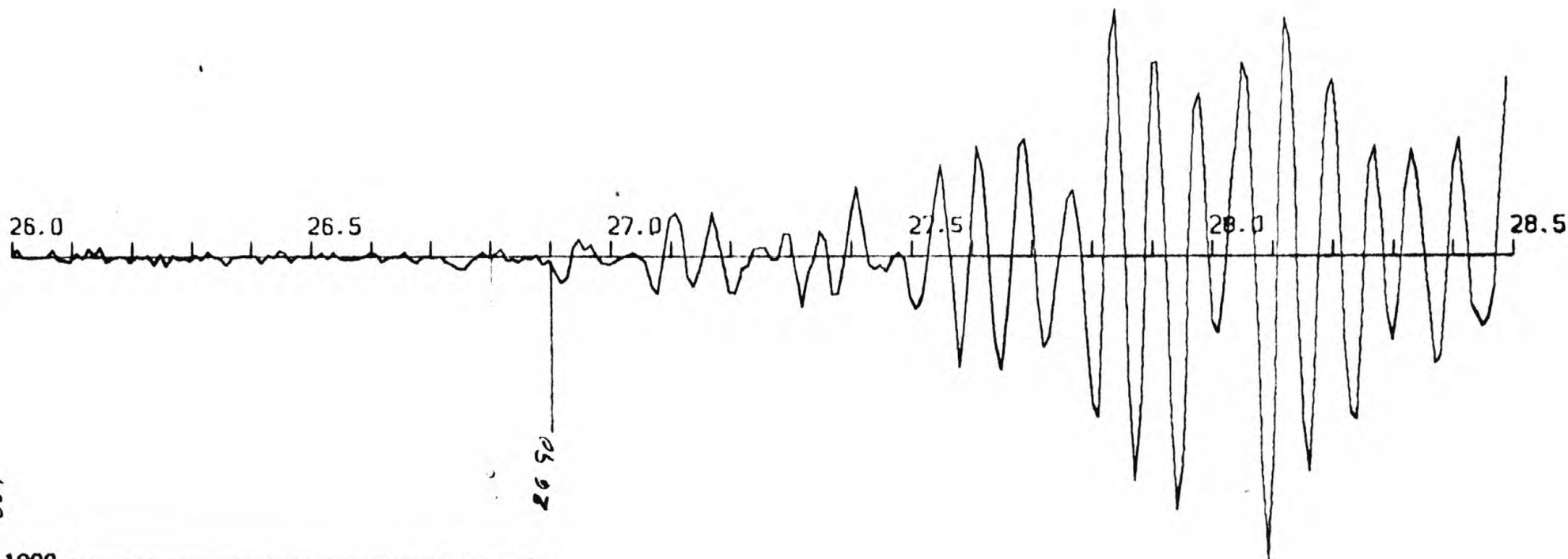
SAUDI ARABIAN REFRACTION PROFILE (SHP)

SHOT POINT 5

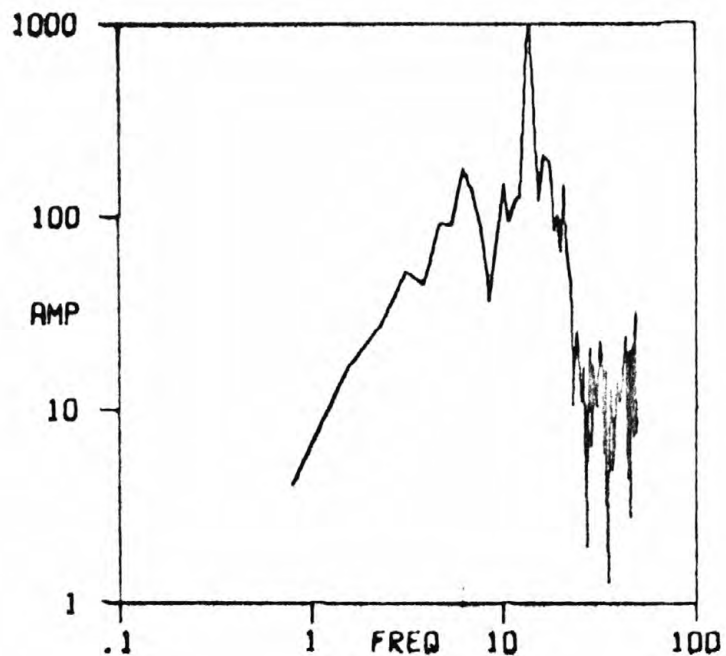
RECORDER LOCATION 566

DISTANCE FROM SHOT (KM) = 166.264

TSCALE (CM/SEC) = 10.0



683



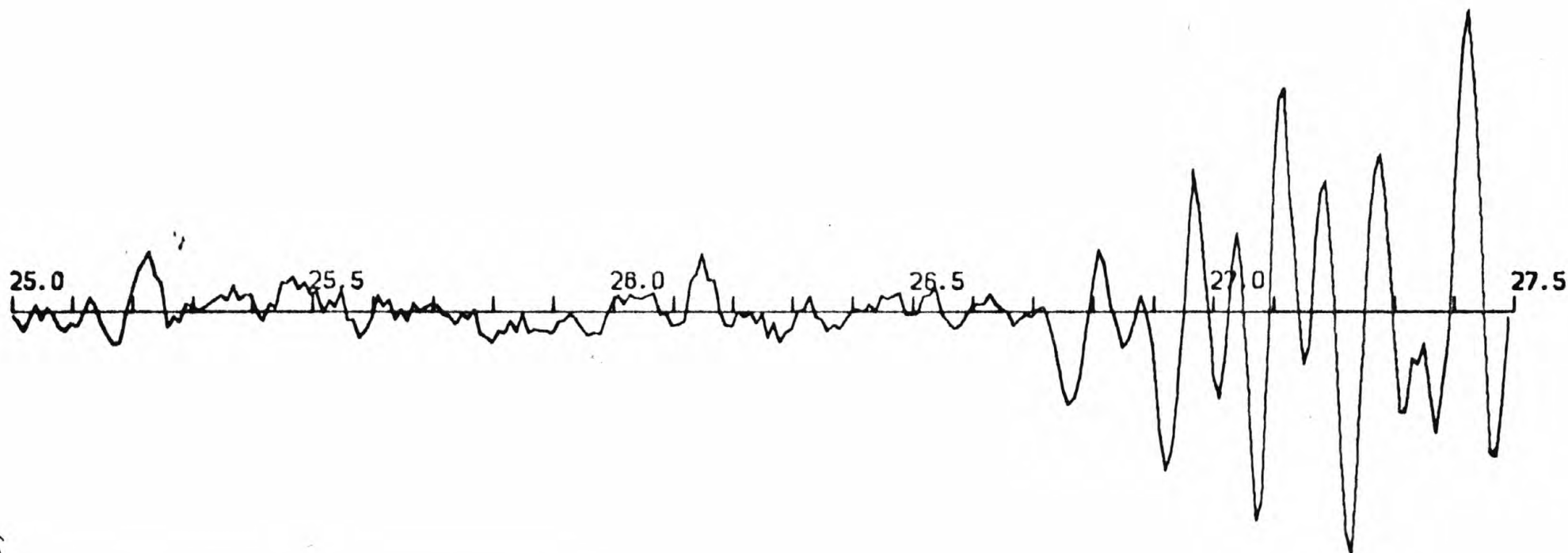
SAUDI ARABIAN REFRACTION PROFILE

SHOT POINT 5

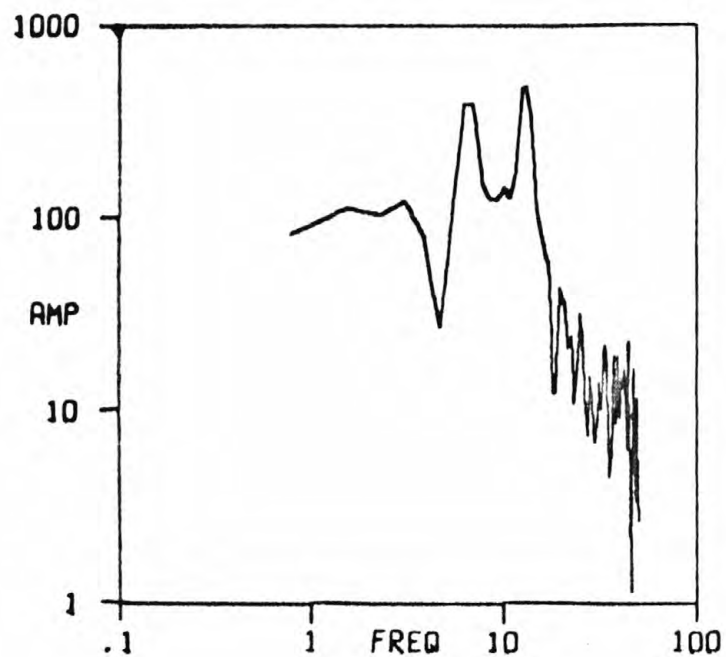
RECORDER LOCATION 565

DISTANCE FROM SHOT (KM) = 167.526

TSCALE (CM/SEC) = 10.0



684



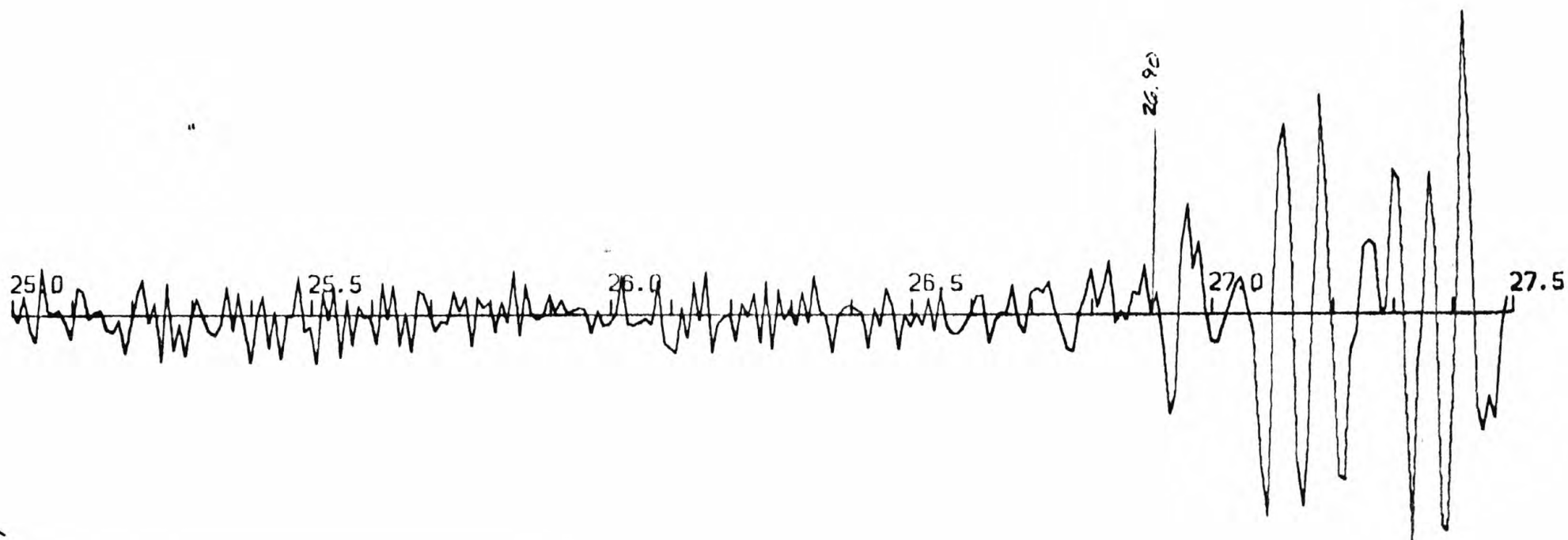
SAUDI ARABIAN REFRACTION PROFILE (15LP)

SHOT POINT 5

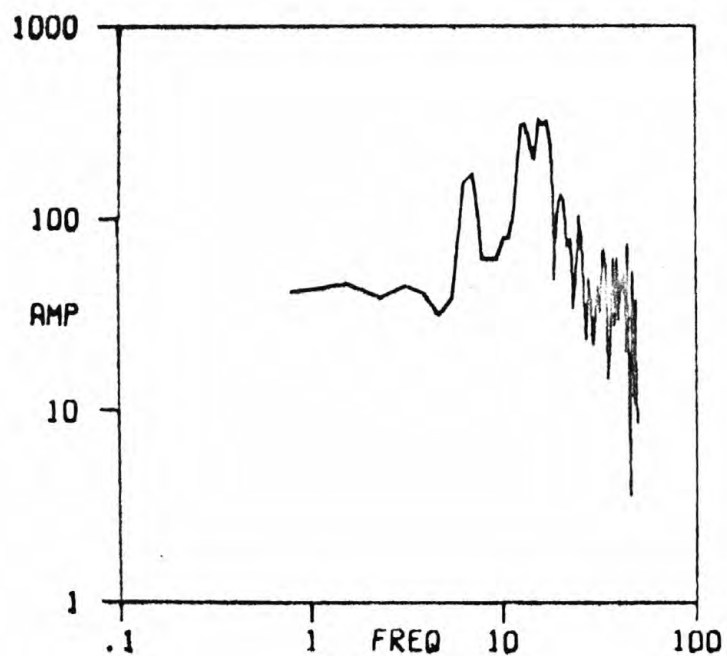
RECORDER LOCATION 585

DISTANCE FROM SHOT (KM) = 167.526

TSCALE (CM/SEC) = 10.0



589



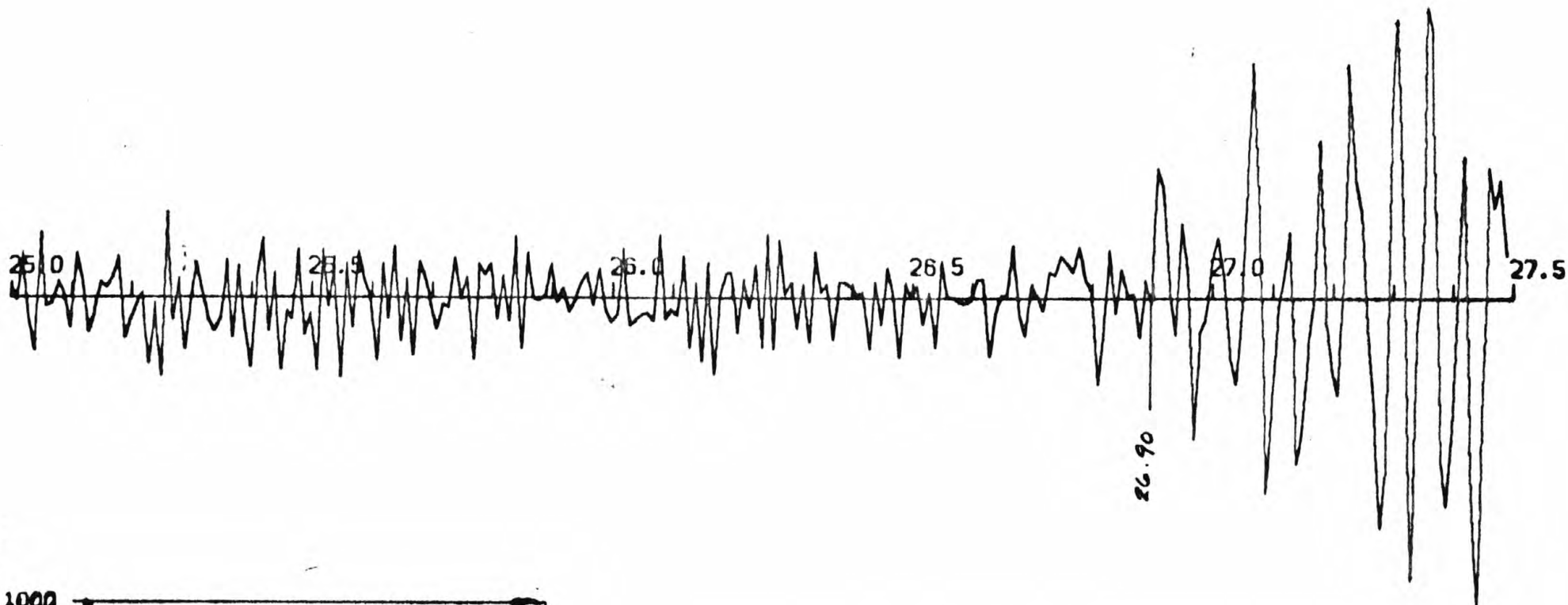
SAUDI ARABIAN REFRACTION PROFILE (SHP)

SHOT POINT 5

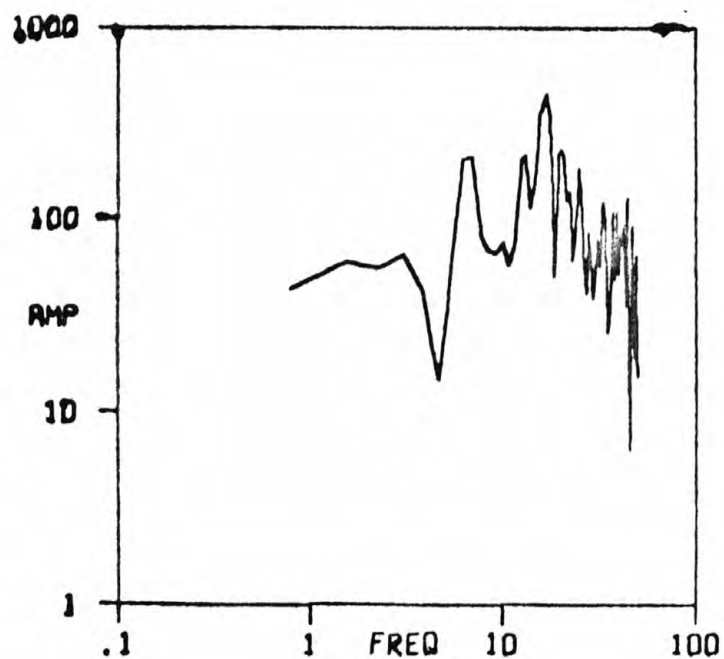
RECORDER LOCATION 565

DISTANCE FROM SHOT (KM) = 167.526

TSCALE (CM/SEC) = 10.0



987



SAUDI ARABIAN REFRACTION PROFILE (15HP)

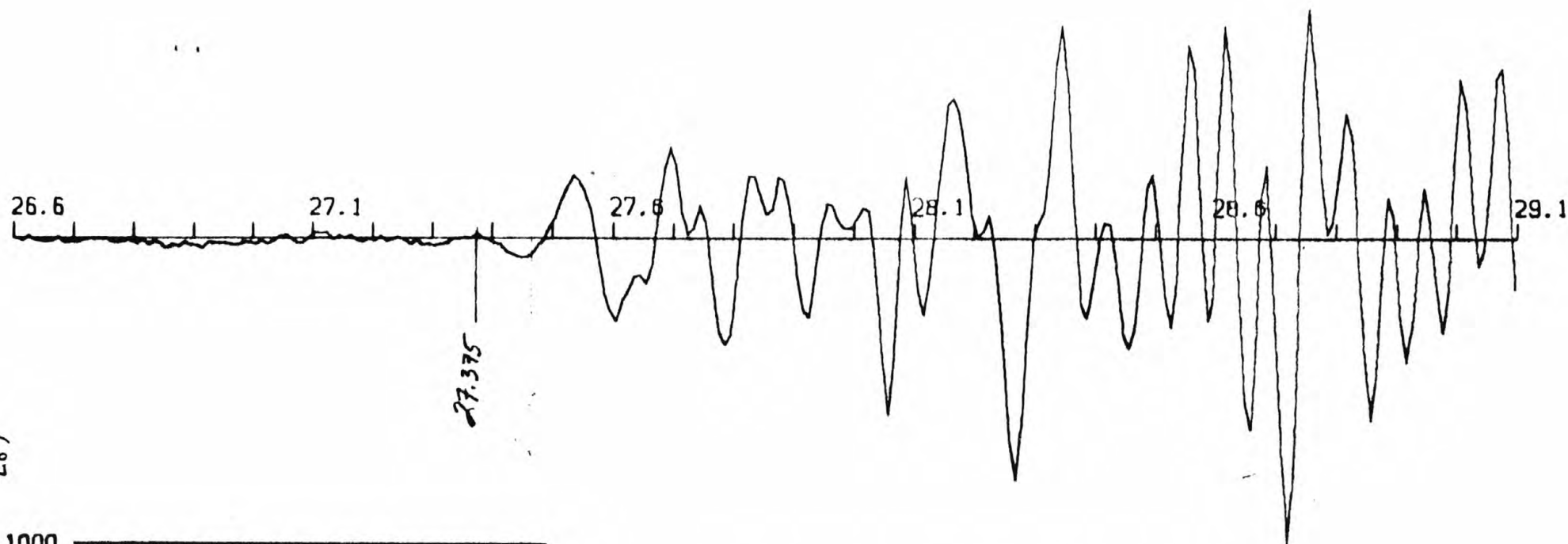
SHOT POINT 5

RECORDER LOCATION 565

DISTANCE FROM SHOT (KM) = 167.526

TSCALE (CM/SEC) = 10.0

187



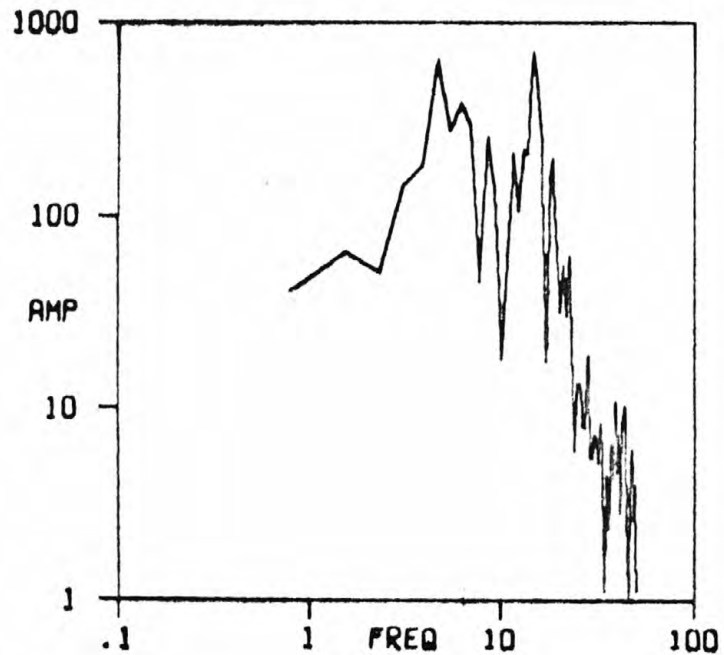
SAUDI ARABIAN REFRACTION PROFILE

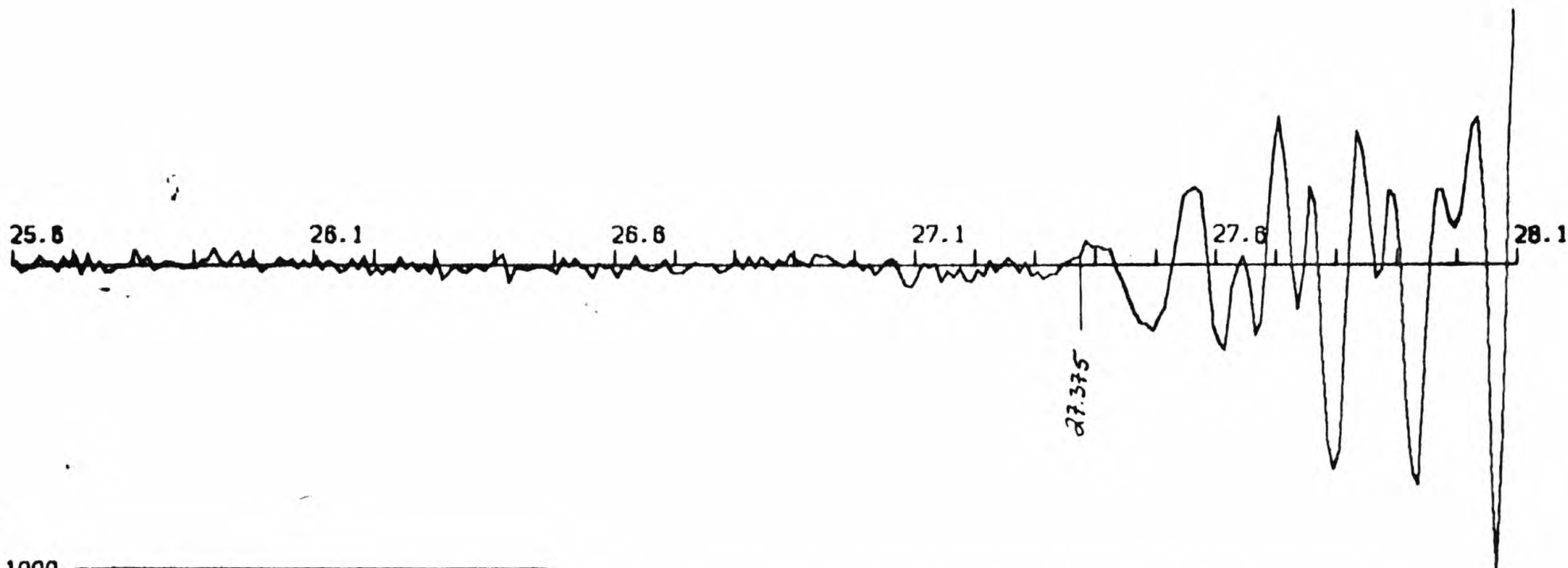
SHOT POINT 5

RECORDER LOCATION 563

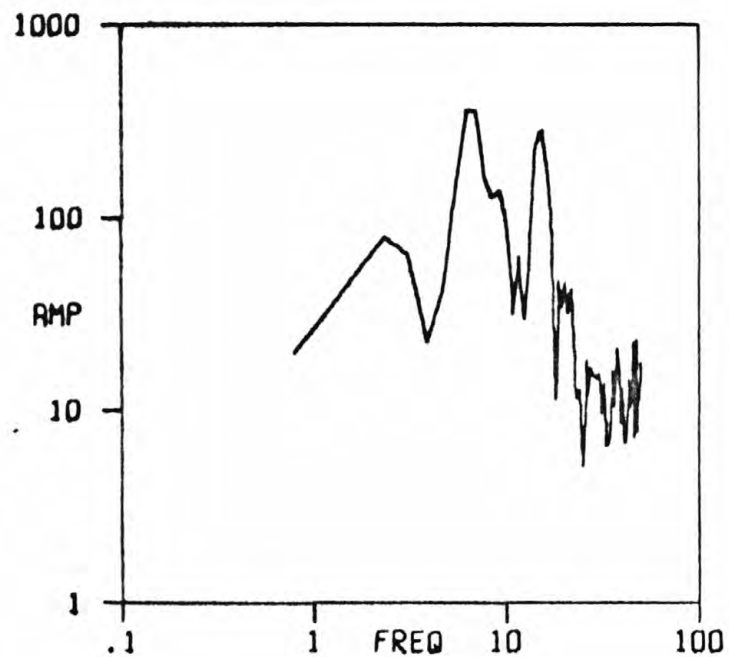
DISTANCE FROM SHOT (KM) = 171.585

TSCALE (CM/SEC) = 10.0





889



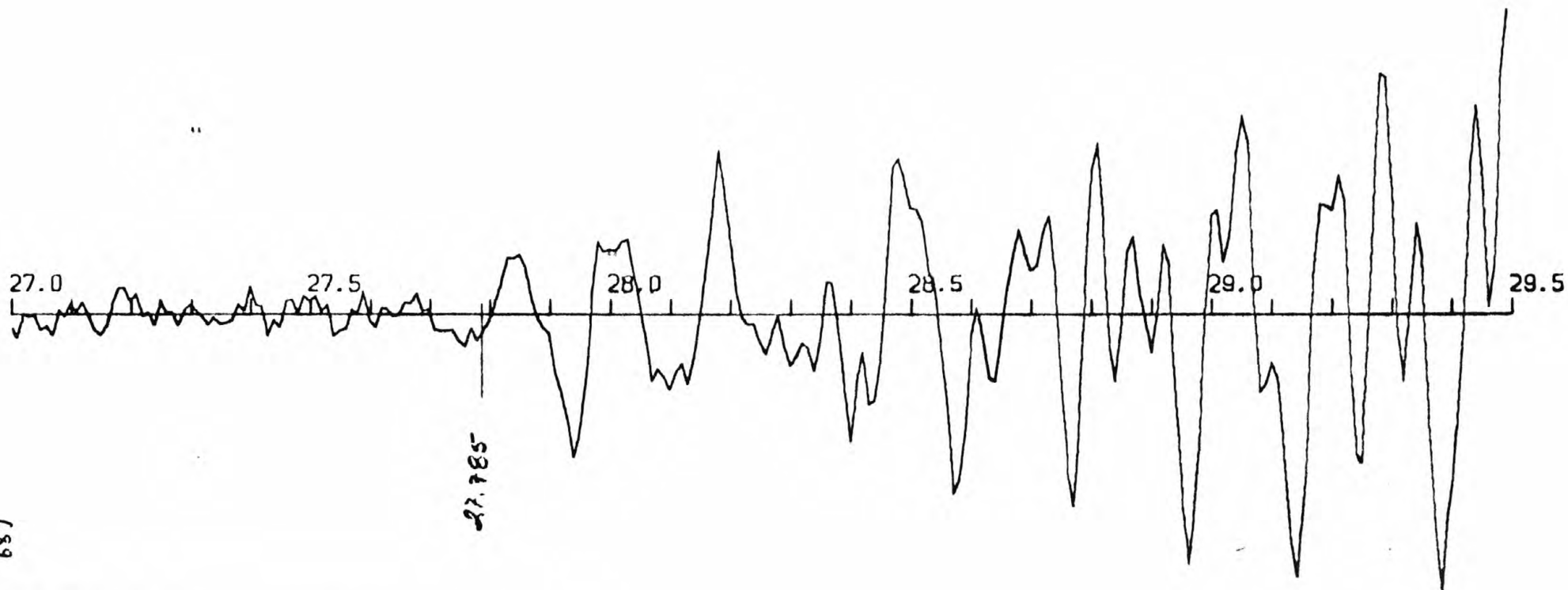
SAUDI ARABIAN REFRACTION PROFILE (SHP)

SHOT POINT 5

RECORDER LOCATION 563

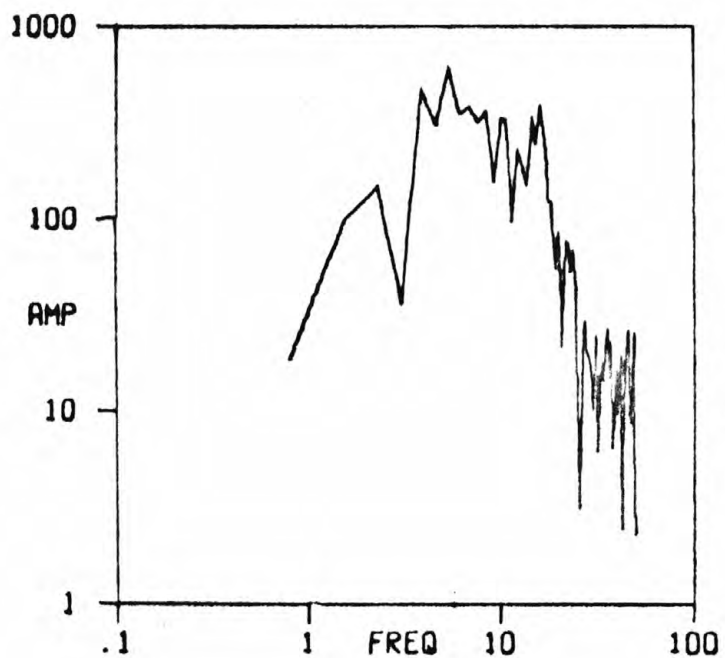
DISTANCE FROM SHOT (KM) = 171.585

TSCALE (CM/SEC) = 10.0



27.825

689



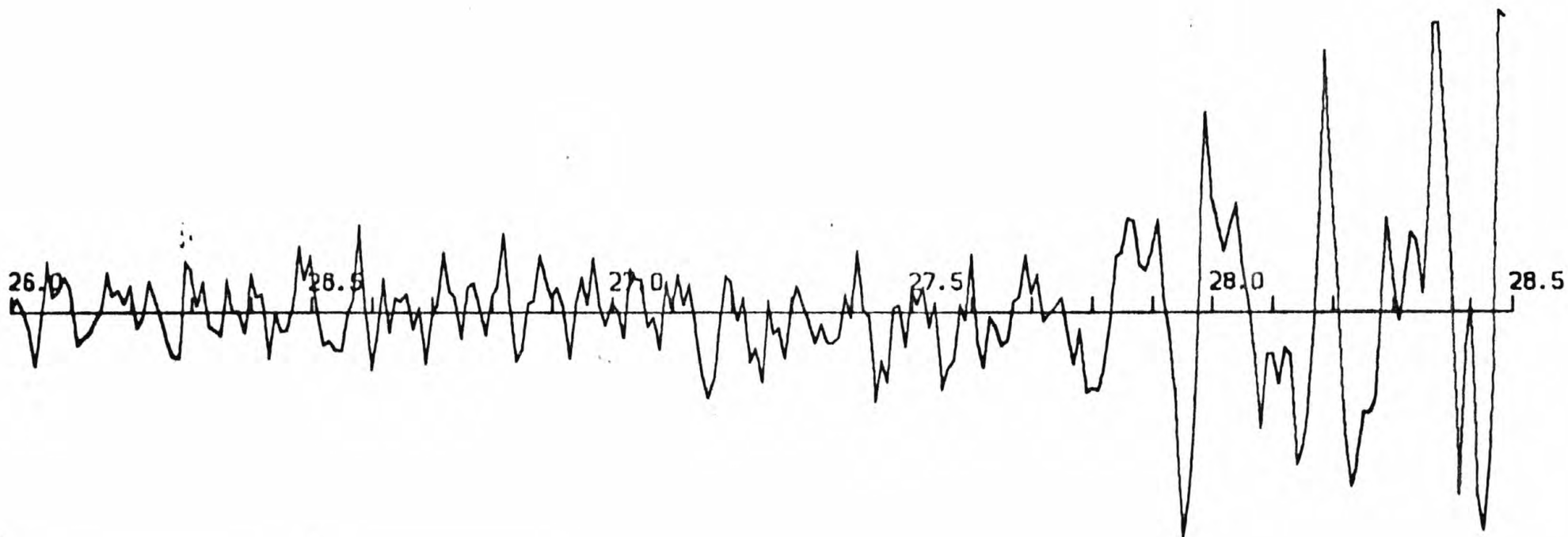
SAUDI ARABIAN REFRACTION PROFILE

SHOT POINT 5

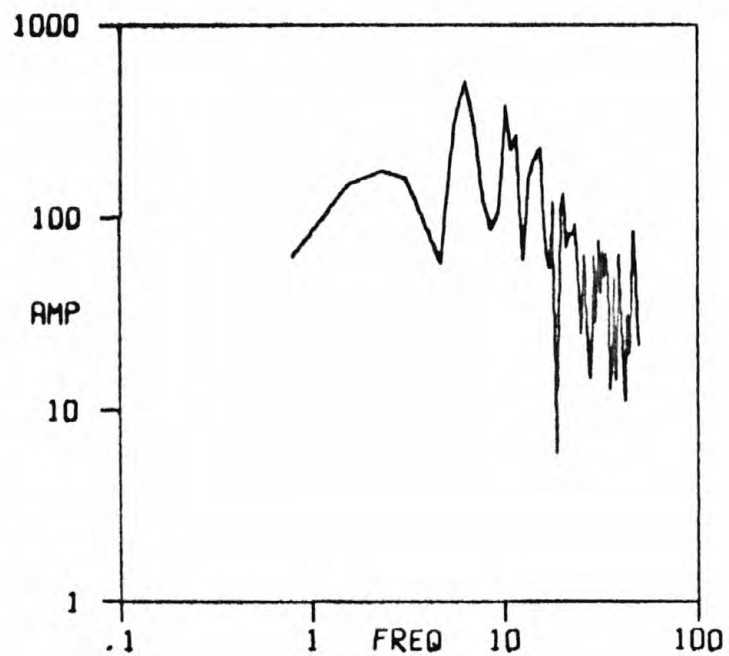
RECORDER LOCATION 562

DISTANCE FROM SHOT (KM) = 173.828

TSCALE (CM/SEC) = 10.0



969



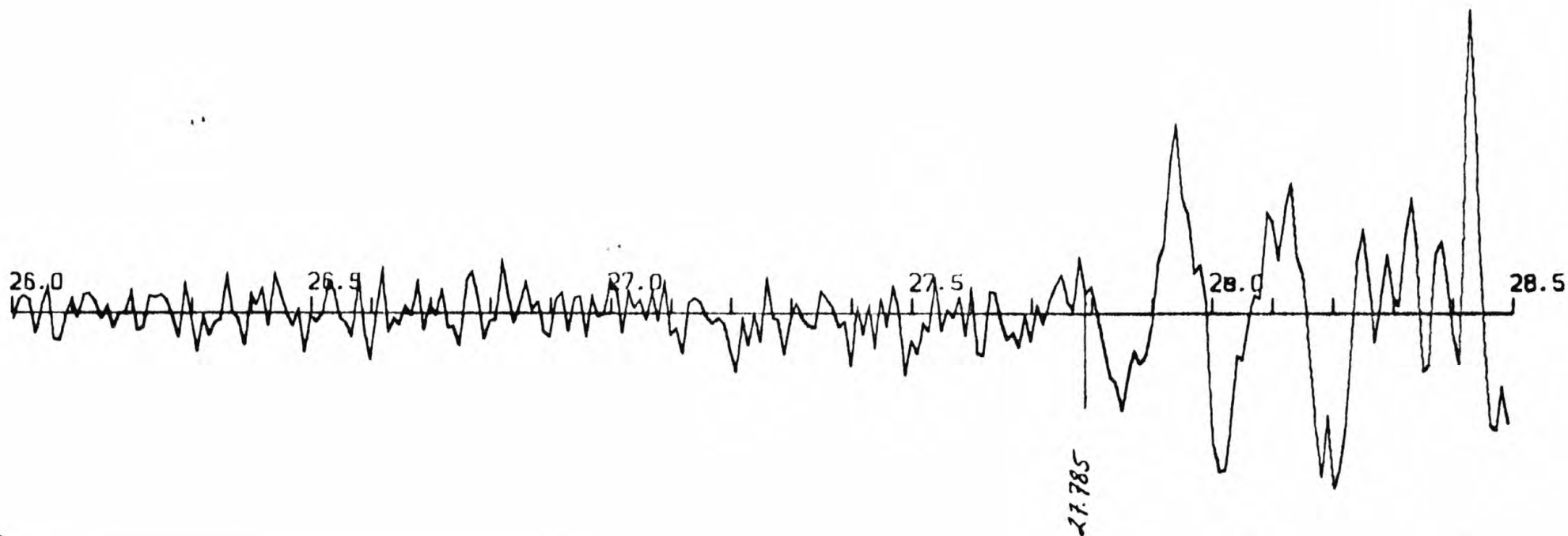
SAUDI ARABIAN REFRACTION PROFILE (SHP)

SHOT POINT 5

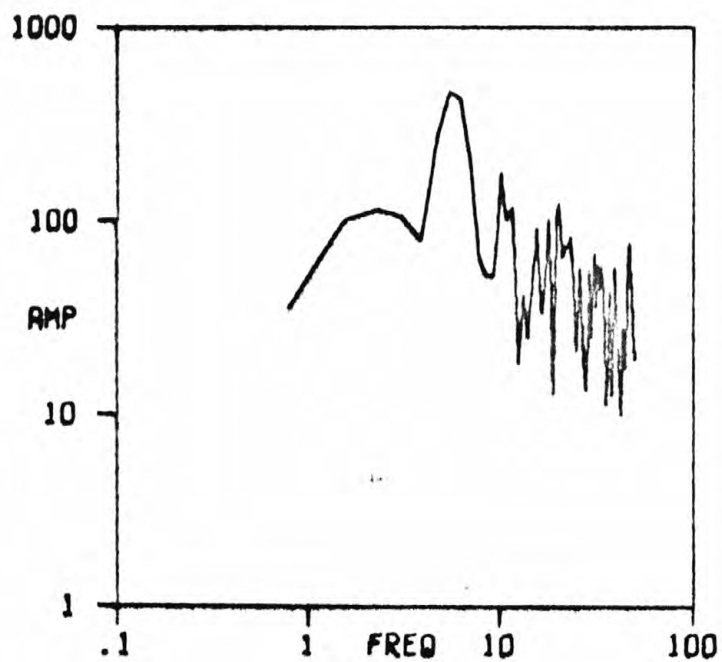
RECORDER LOCATION 562

DISTANCE FROM SHOT (KM) = 173.828

TSCALE (CM/SEC) = 10.0



169



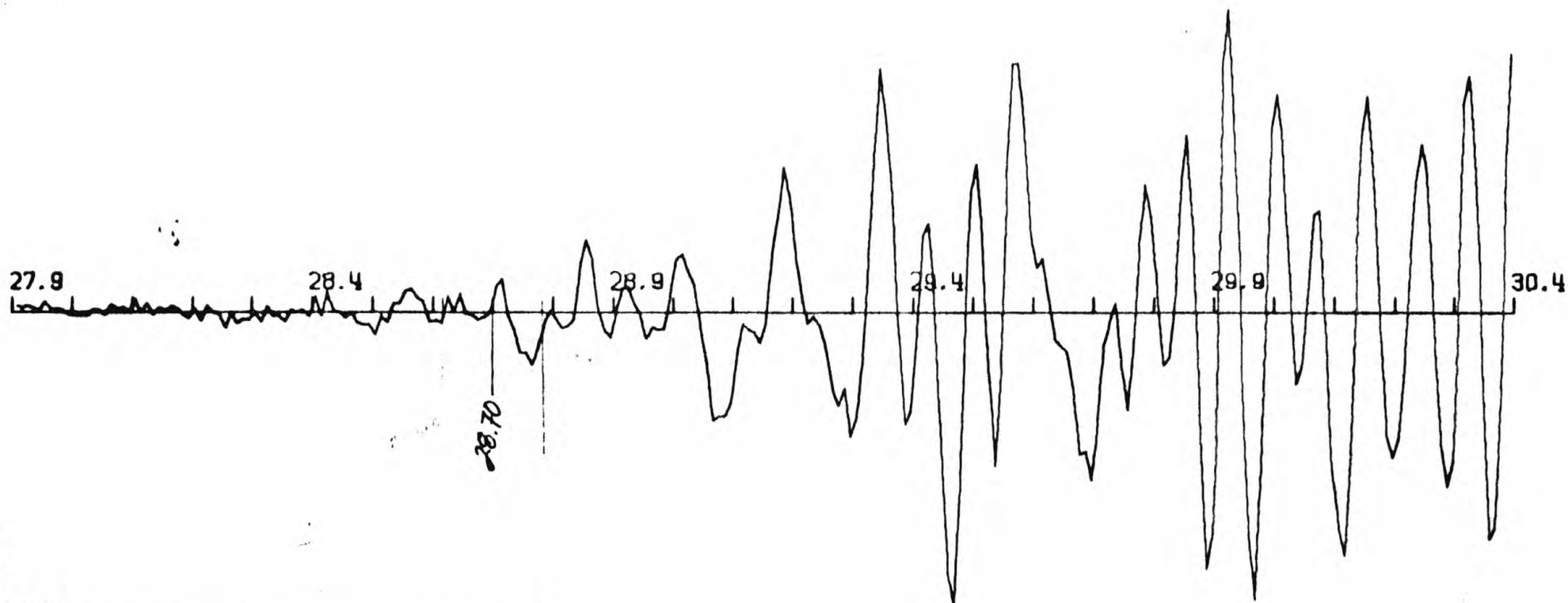
SAUDI ARABIAN REFRACTION PROFILE (15HP)

SHOT POINT 5

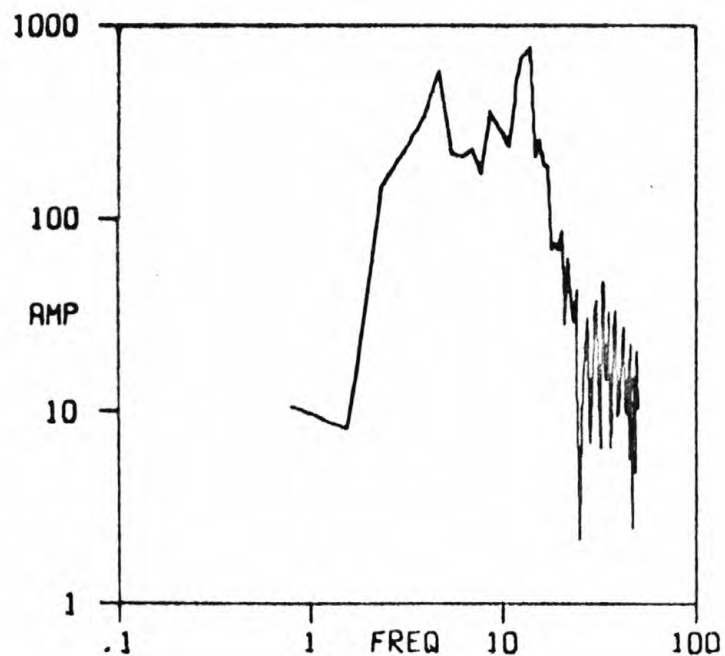
RECORDER LOCATION 562

DISTANCE FROM SHOT (KM) = 173.828

TSCALE (CM/SEC) = 10.0



692



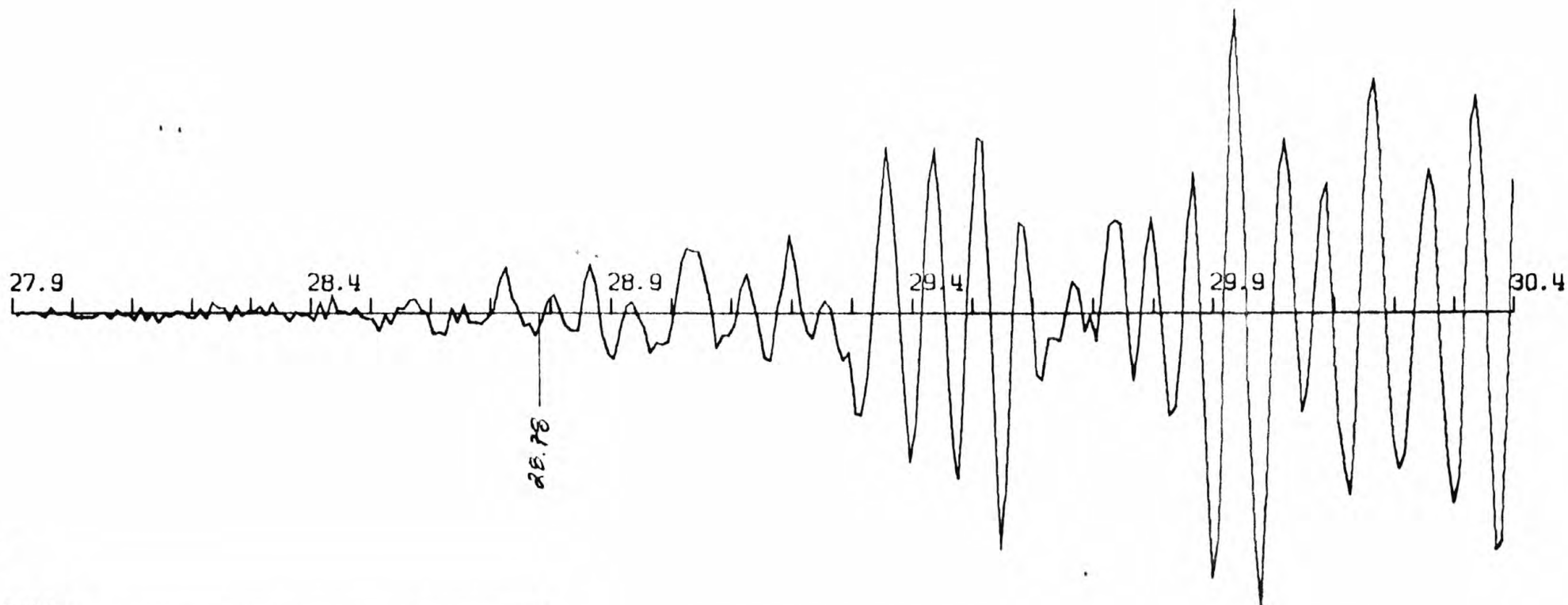
SAUDI ARABIAN REFRACTION PROFILE

SHOT POINT 5

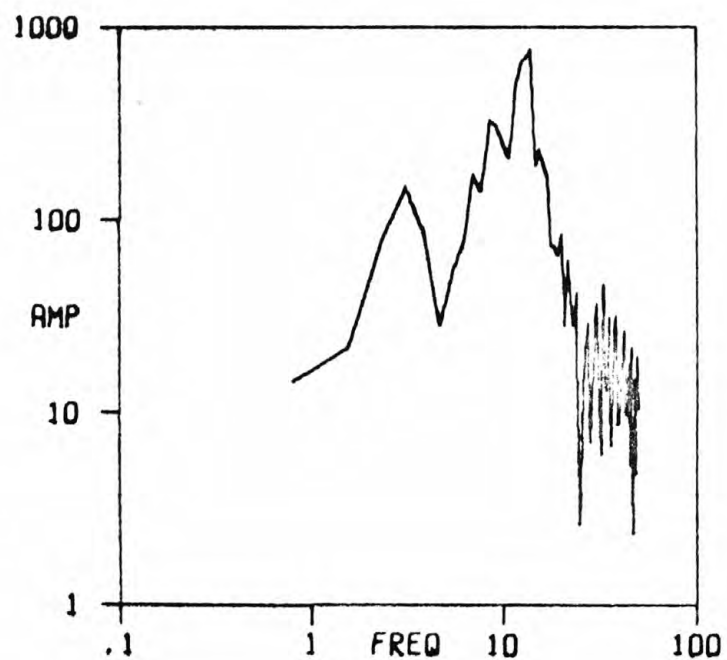
RECORDER LOCATION 560

DISTANCE FROM SHOT (KM) = 178.849

TSCALE (CM/SEC) = 10.0



693



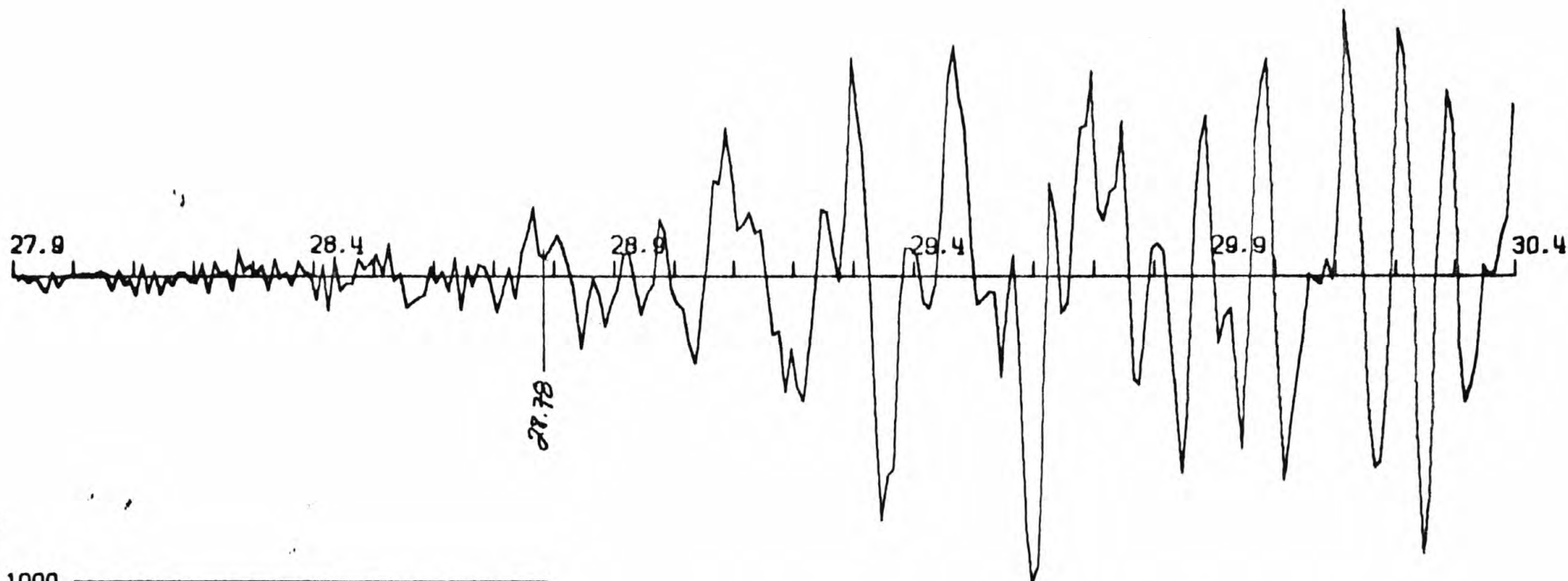
SAUDI ARABIAN REFRACTION PROFILE (SHP)

SHOT POINT 5

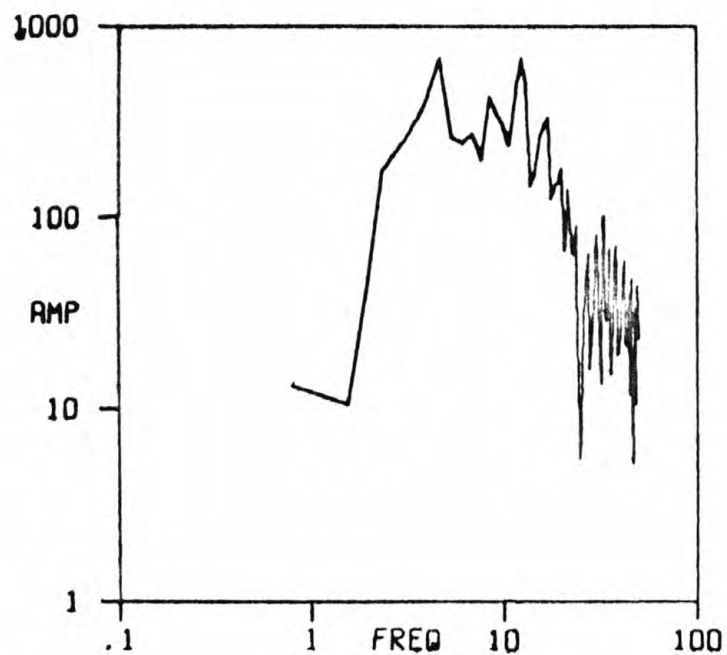
RECORDER LOCATION 560

DISTANCE FROM SHOT (KM) = 178.849

TSCALE (CM/SEC) = 10.0



469



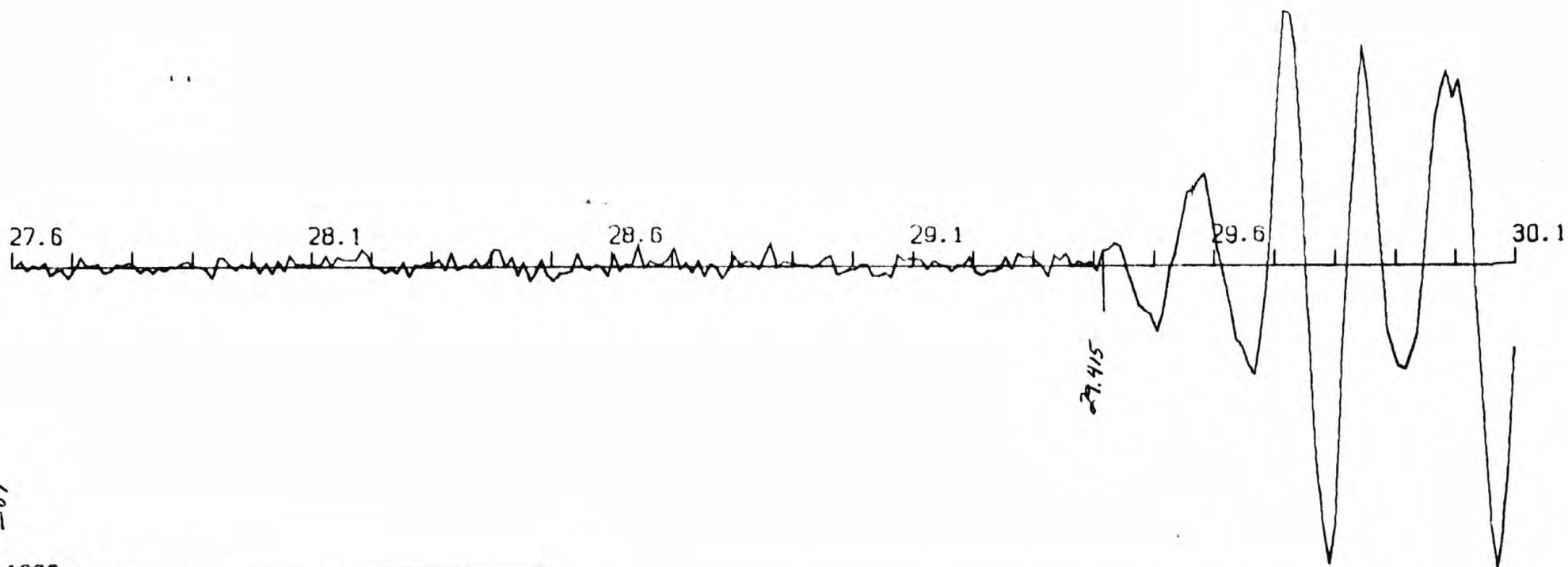
SAUDI ARABIAN REFRACTION PROFILE (15HP)

SHOT POINT 5

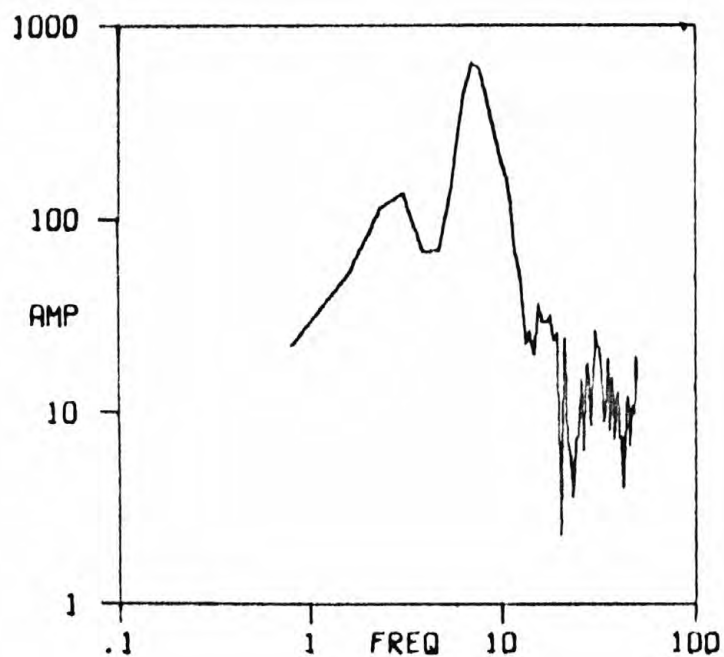
RECORDER LOCATION 560

DISTANCE FROM SHOT (KM) = 178.849

TSCALE (CM/SEC) = 10.0



695



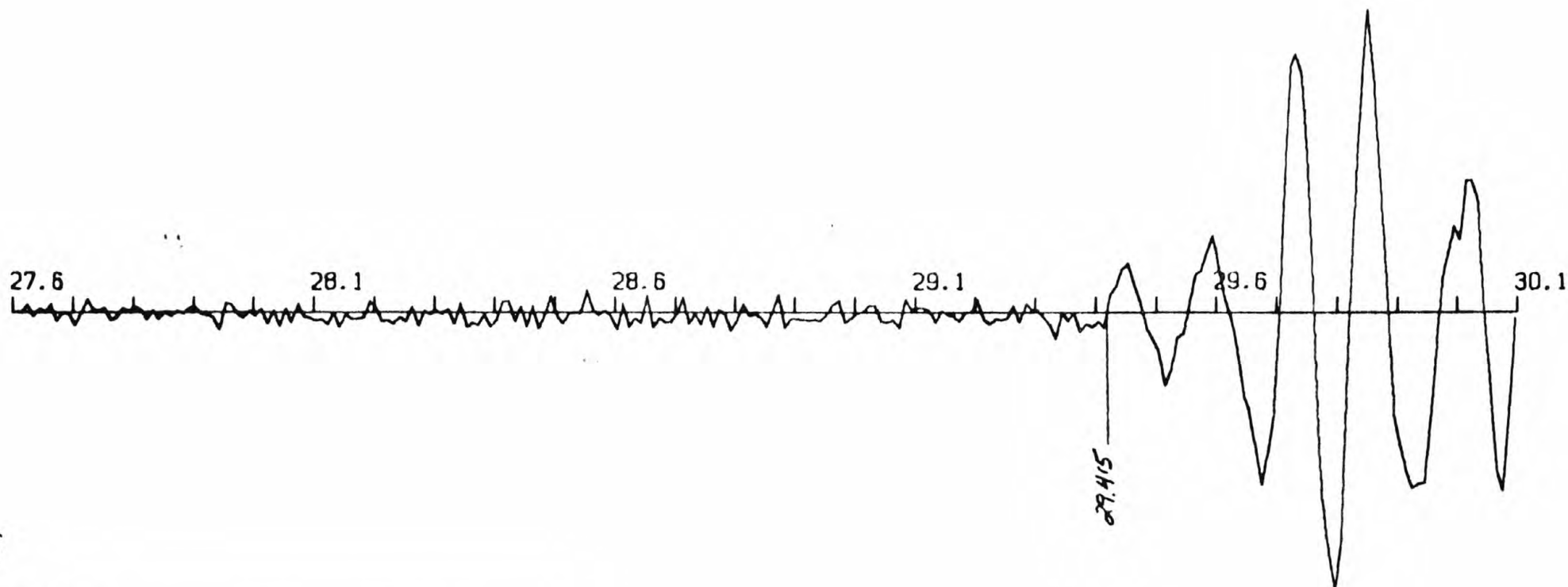
SAUDI ARABIAN REFRACTION PROFILE

SHOT POINT 5

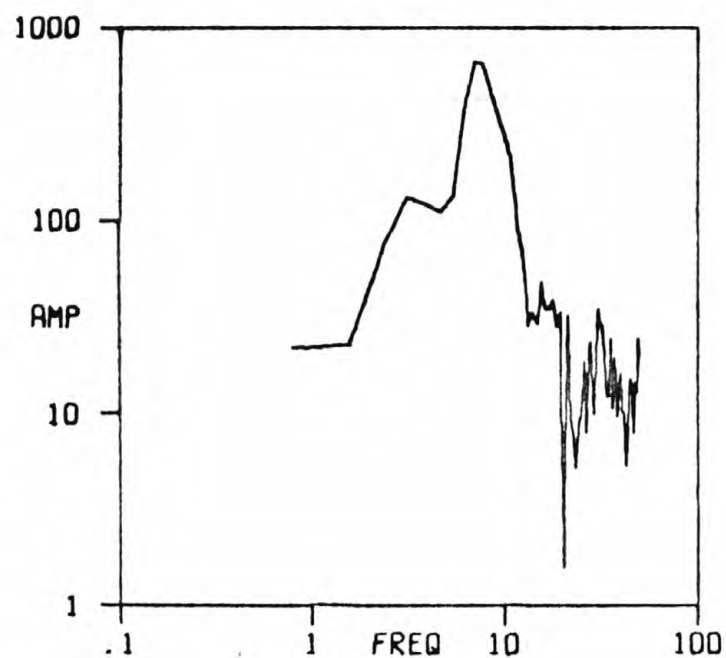
RECORDER LOCATION 558

DISTANCE FROM SHOT (KM) = 183.523

TSCALE (CM/SEC) = 10.0



767



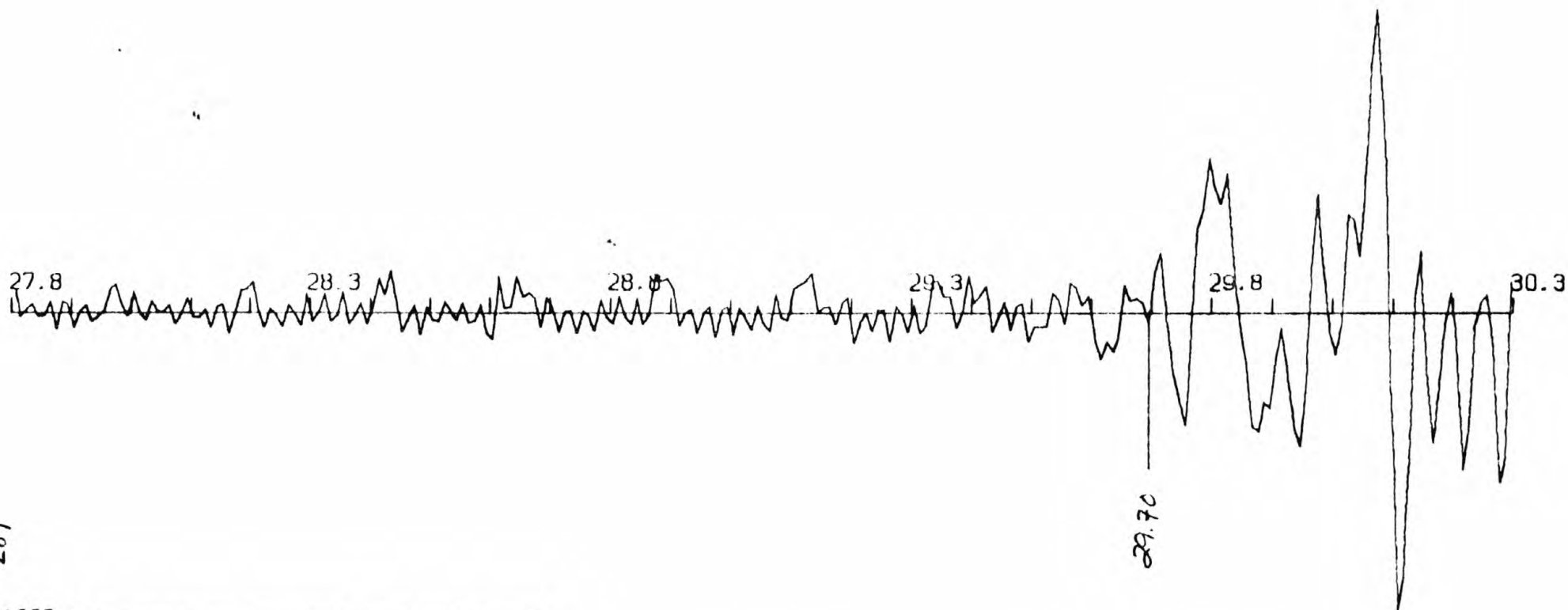
SAUDI ARABIAN REFRACTION PROFILE (5HP)

SHOT POINT 5

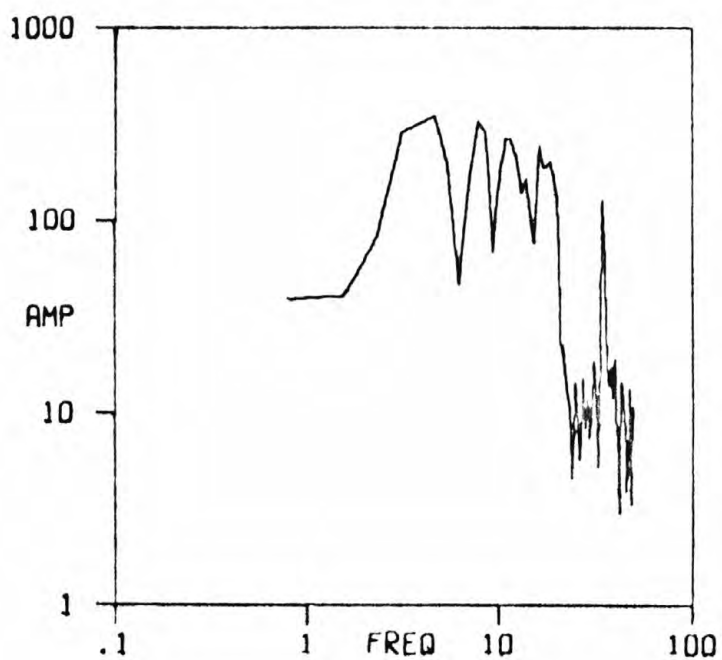
RECORDER LOCATION 558

DISTANCE FROM SHOT (KM) = 183.523

TSCALE (CM/SEC) = 10.0



267



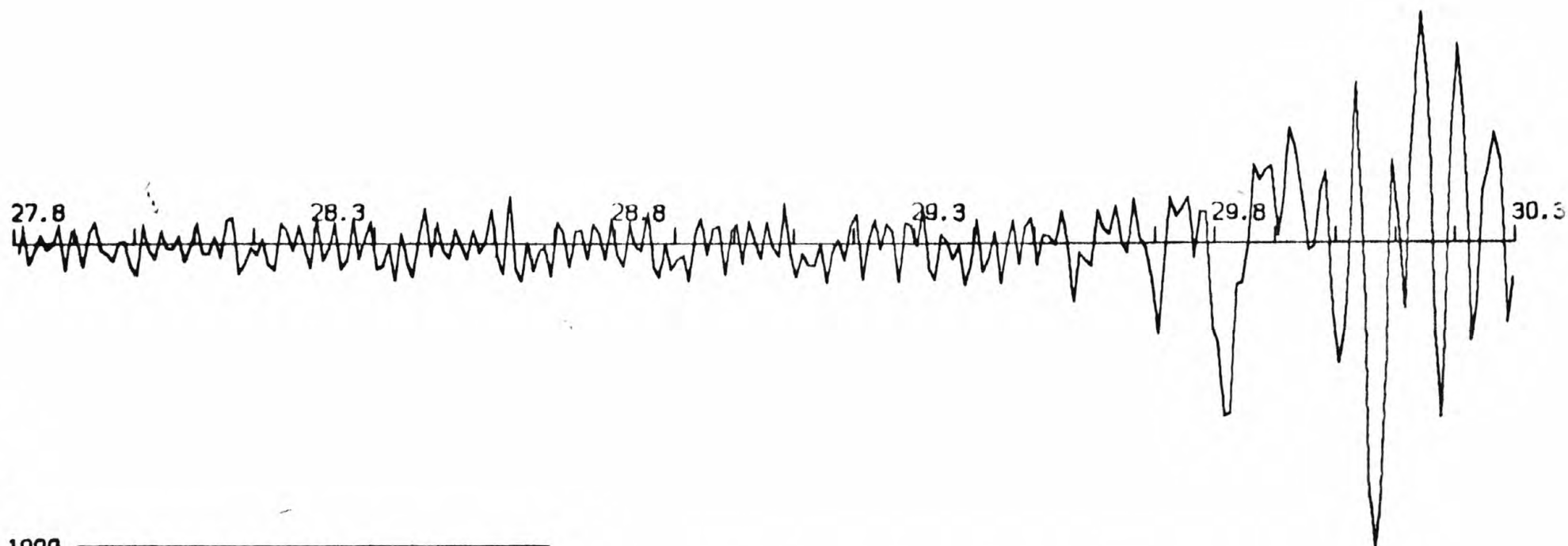
SAUDI ARABIAN REFRACTION PROFILE

SHOT POINT 5

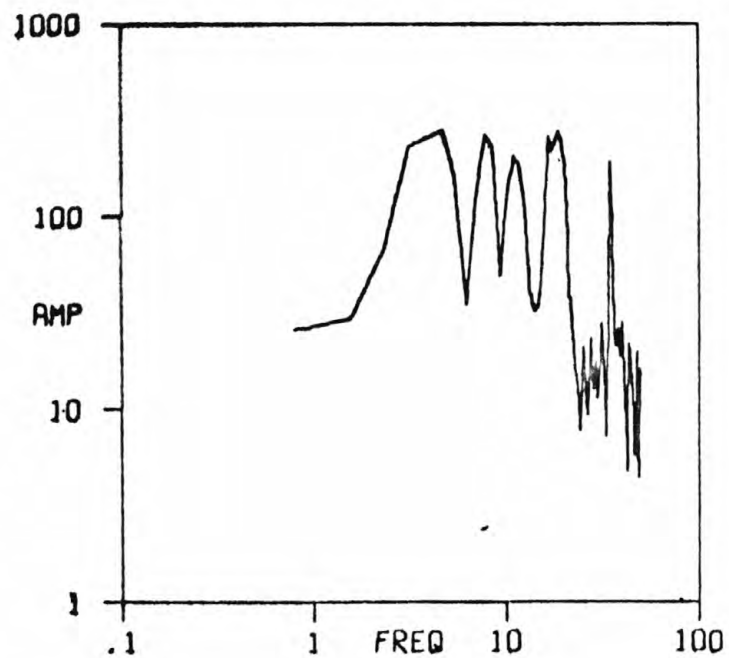
RECORDER LOCATION 557

DISTANCE FROM SHOT (KM) = 184.486

TSCALE (CM/SEC) = 10.0



869



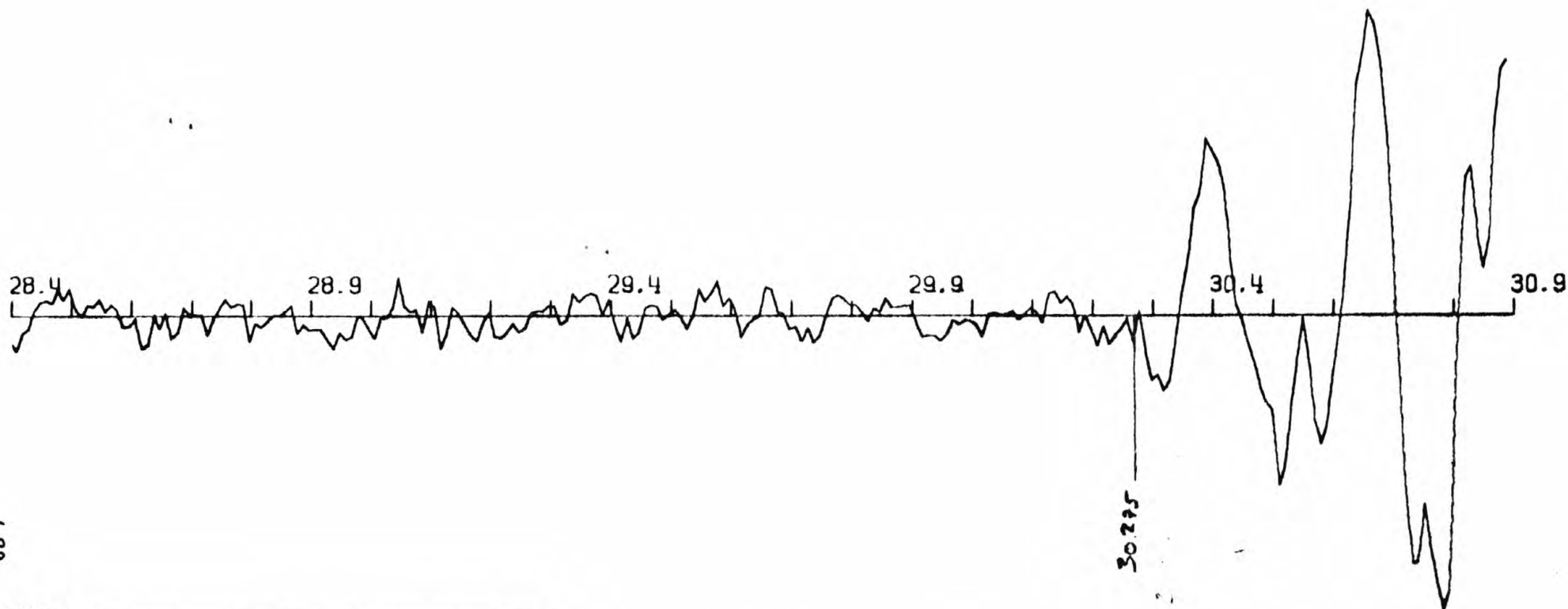
SAUDI ARABIAN REFRACTION PROFILE (15HP)

SHOT POINT 5

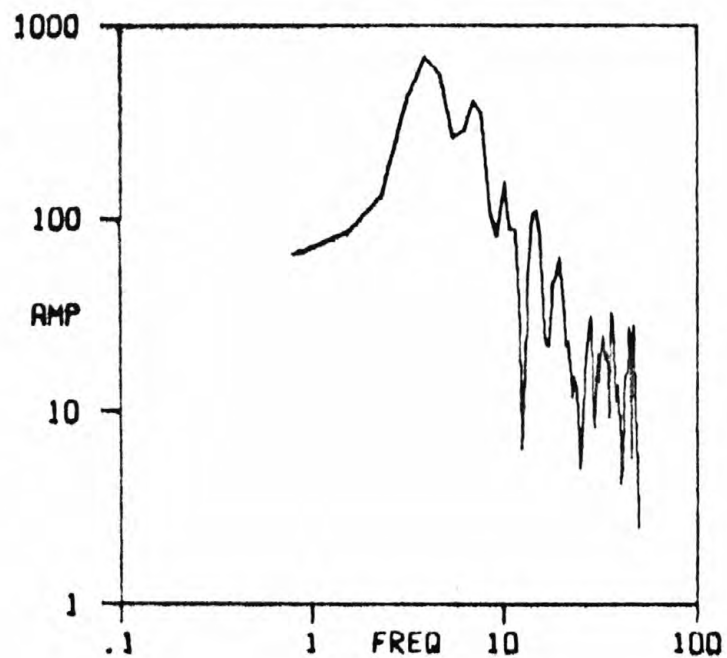
RECORDER LOCATION 557

DISTANCE FROM SHOT (KM) = 184.486

TSCALE (CM/SEC) = 10.0



bb7



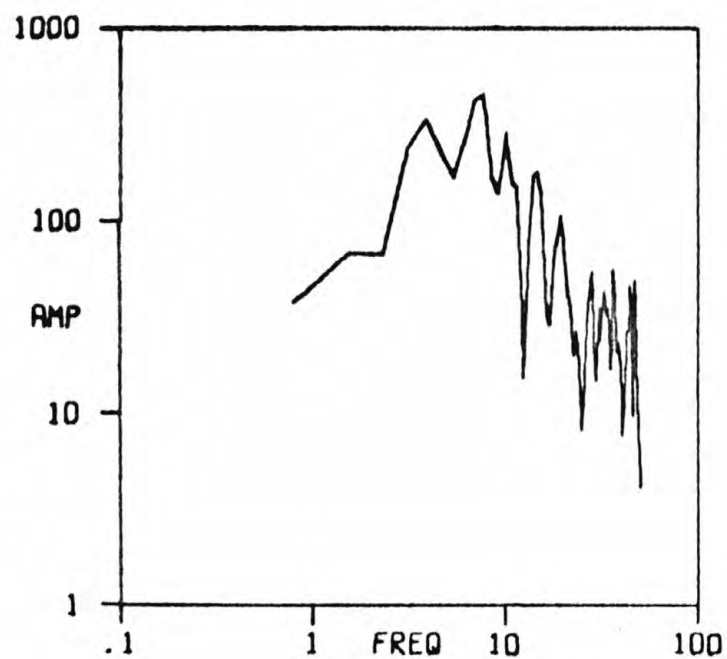
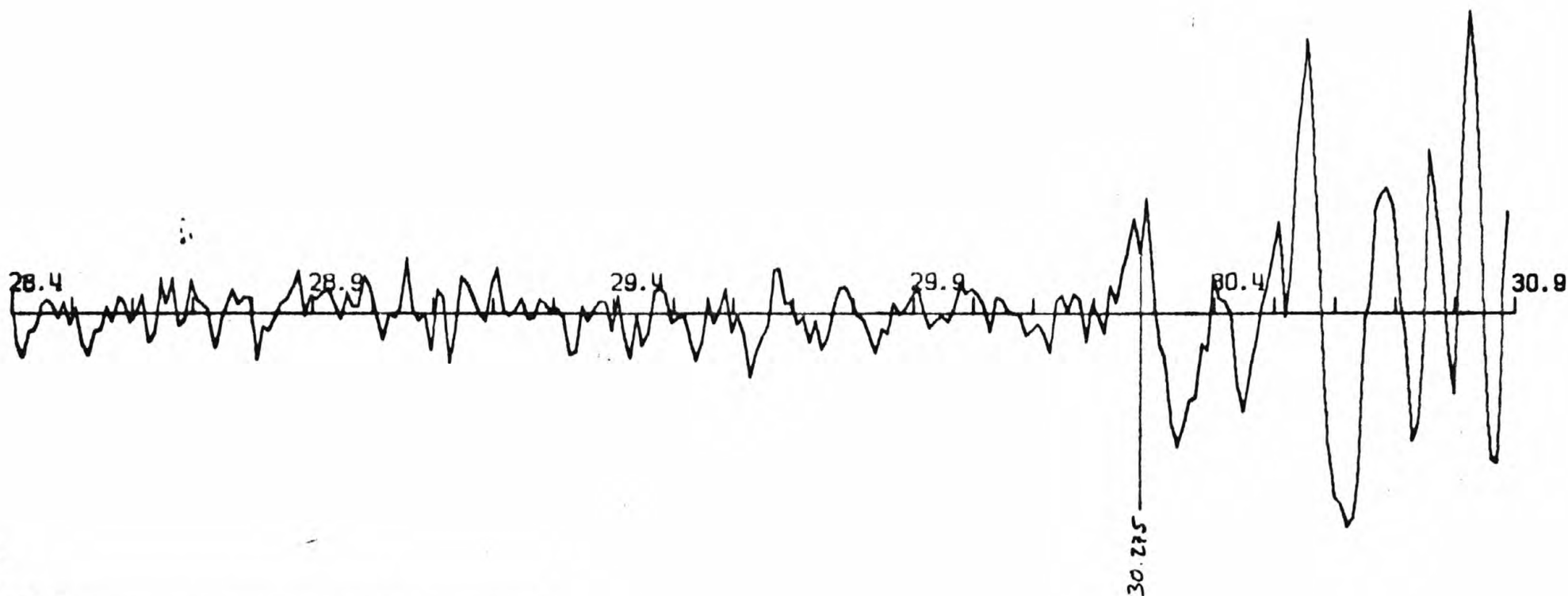
SAUDI ARABIAN REFRACTION PROFILE

SHOT POINT 5

RECORDER LOCATION 555

DISTANCE FROM SHOT (KM) = 188.341

TSCALE (CM/SEC) = 10.0



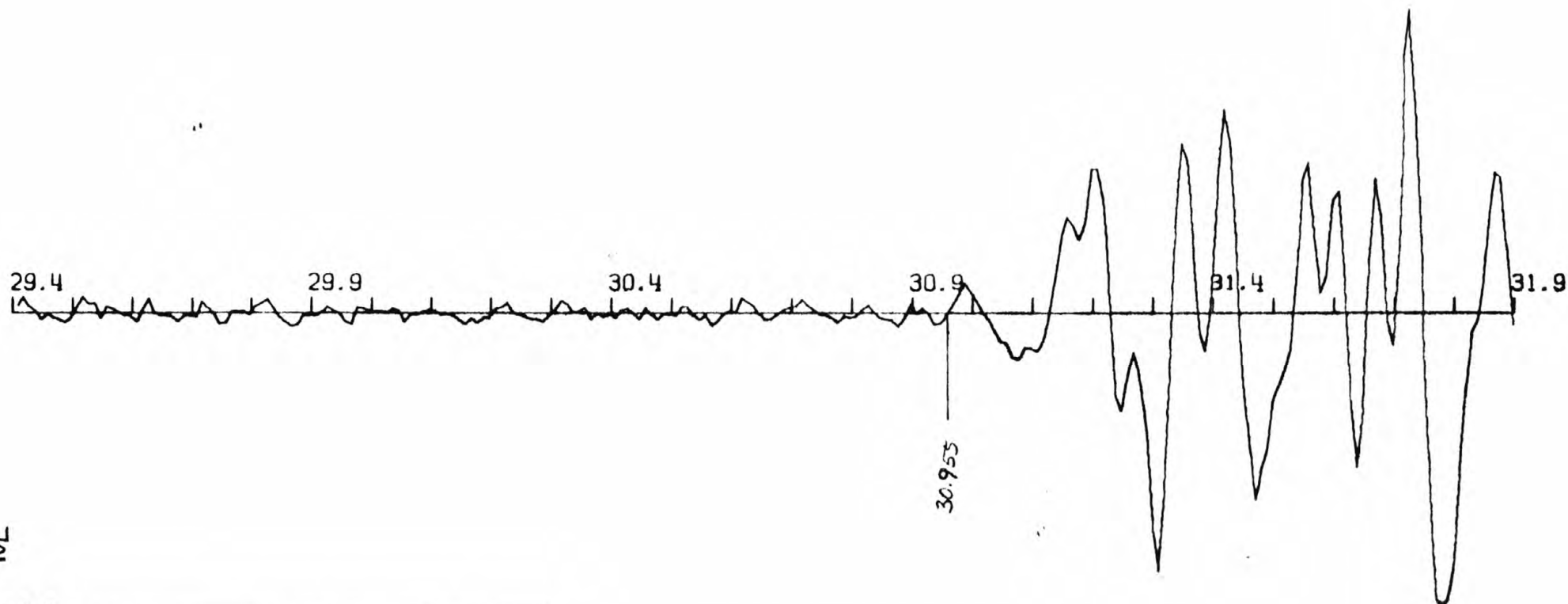
SAUDI ARABIAN REFRACTION PROFILE (SHP)

SHOT POINT 5

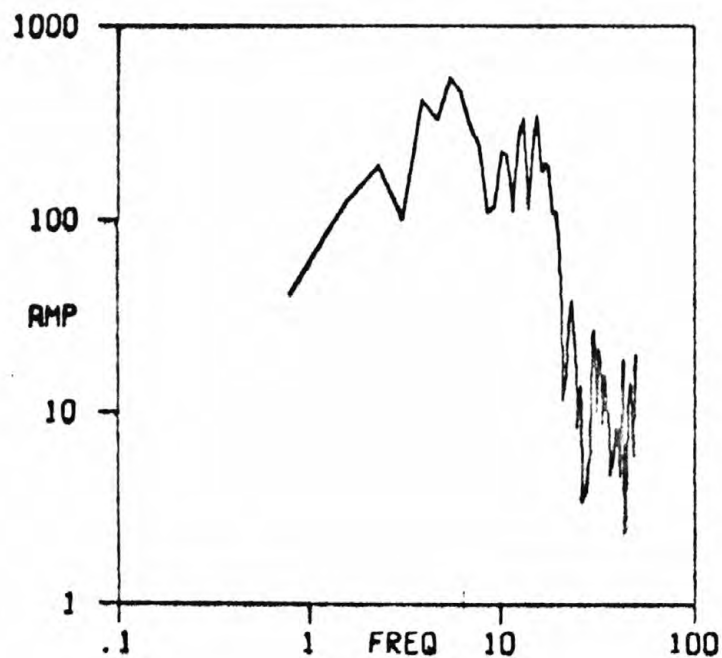
RECORDER LOCATION 555

DISTANCE FROM SHOT (KM) = 188.341

TSCALE (CM/SEC) = 10.0



10L



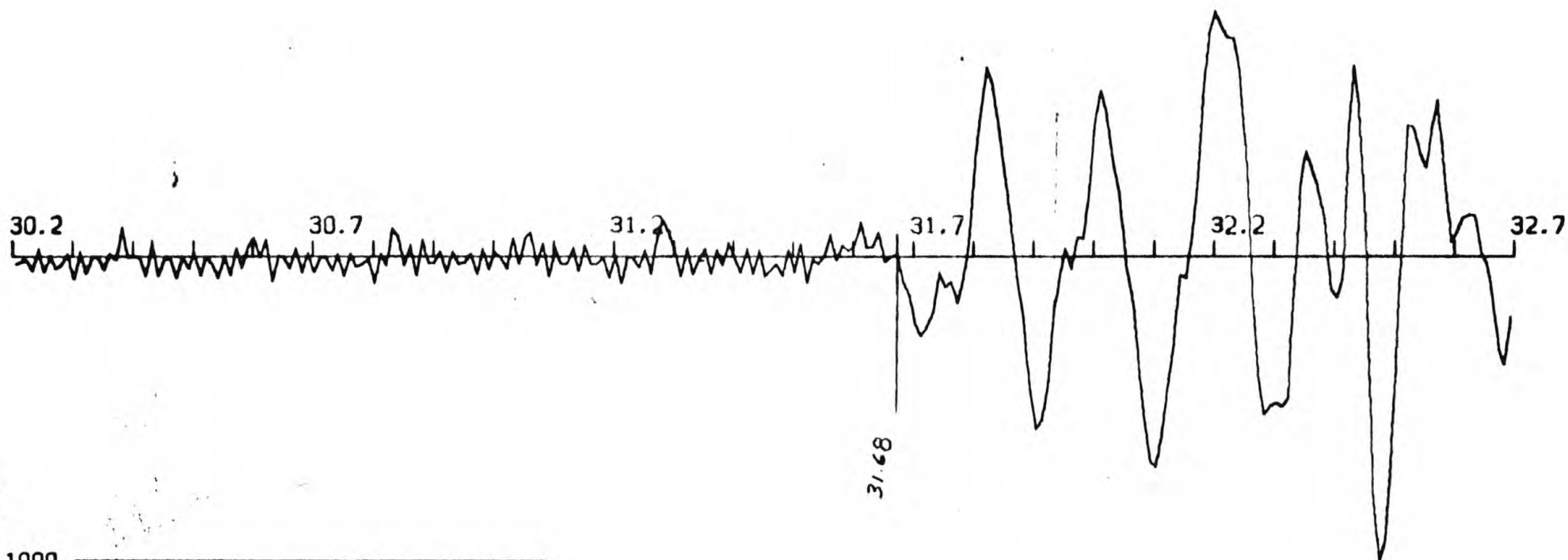
SAUDI ARABIAN REFRACTION PROFILE

SHOT POINT 5

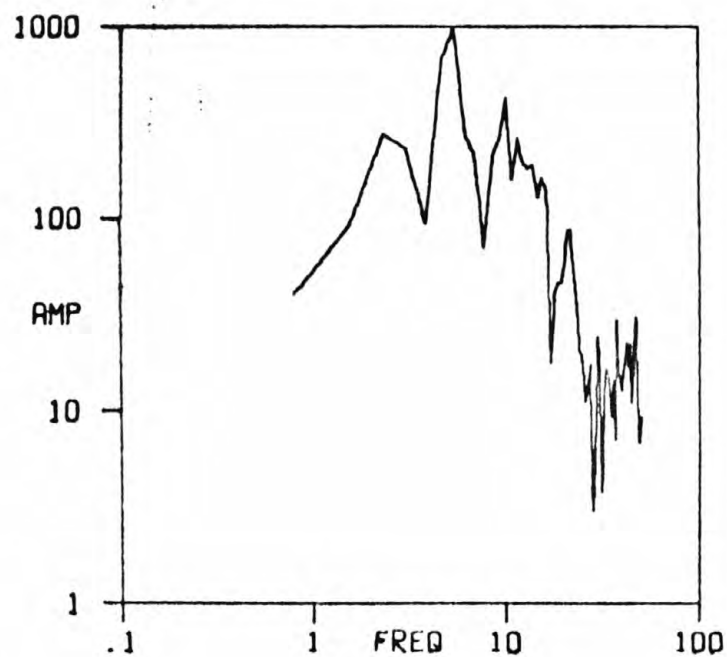
RECORDER LOCATION 552

DISTANCE FROM SHOT (KM) = 194.040

TSCALE (CM/SEC) = 10.0



762



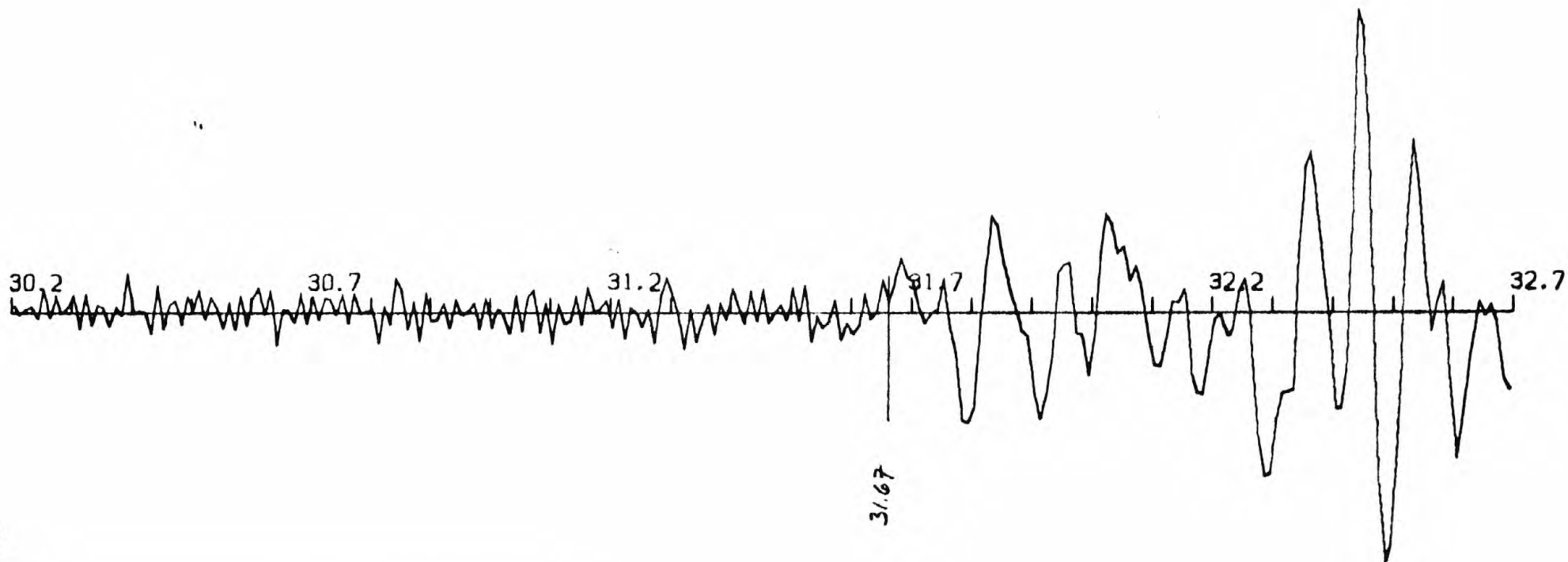
SAUDI ARABIAN REFRACTION PROFILE

SHOT POINT 5

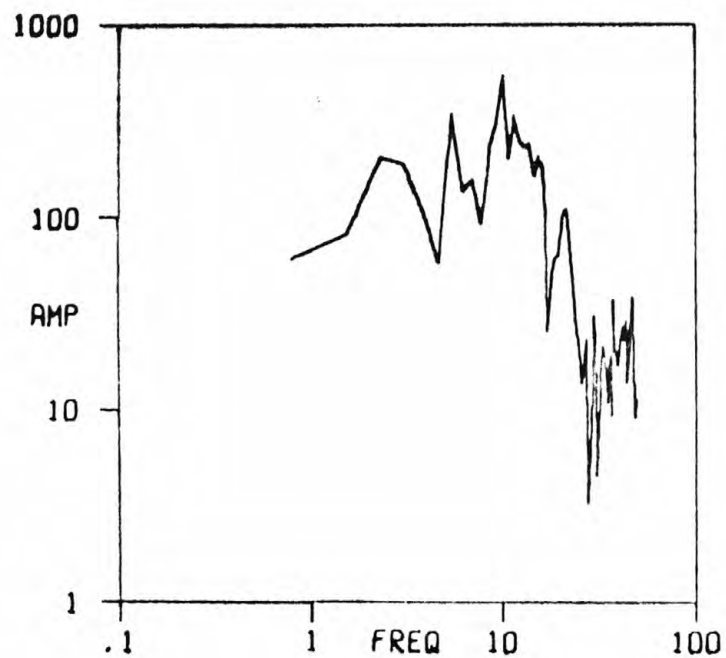
RECORDER LOCATION 549

DISTANCE FROM SHOT (KM) = 198.816

TSCALE (CM/SEC) = 10.0



703



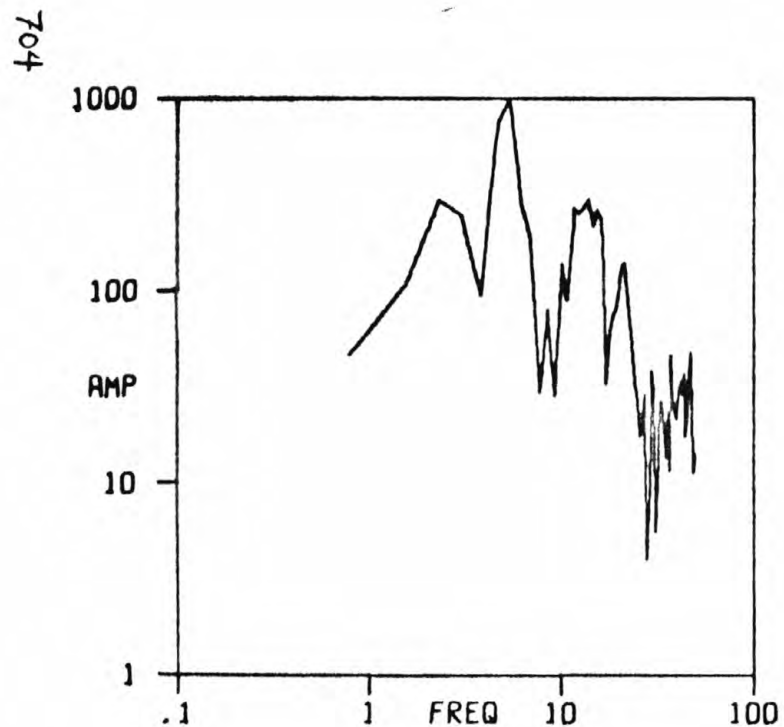
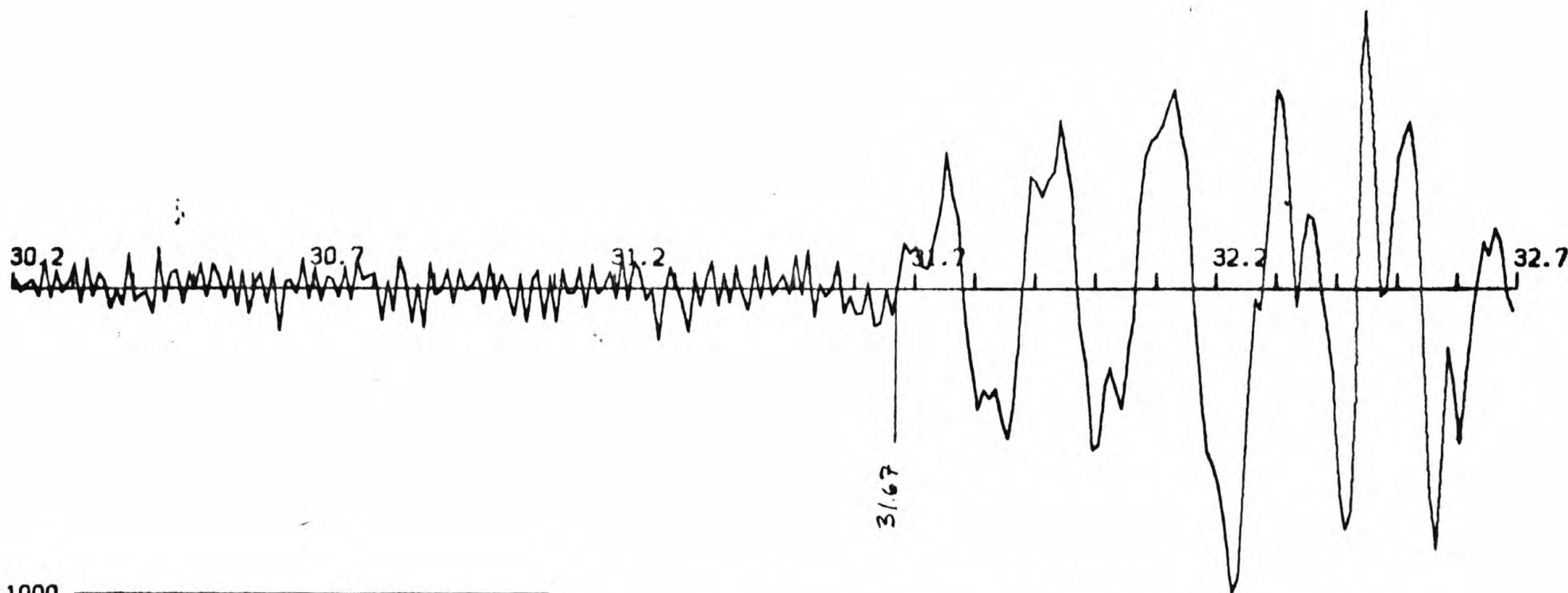
SAUDI ARABIAN REFRACTION PROFILE (5HP)

SHOT POINT 5

RECORDER LOCATION 549

DISTANCE FROM SHOT (KM) = 198.816

TSCALE (CM/SEC) = 10.0



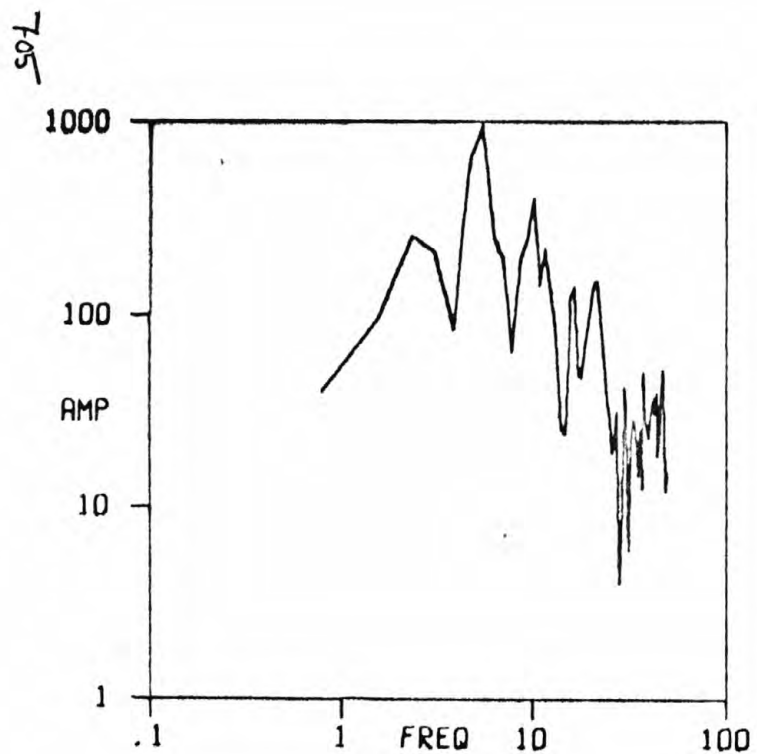
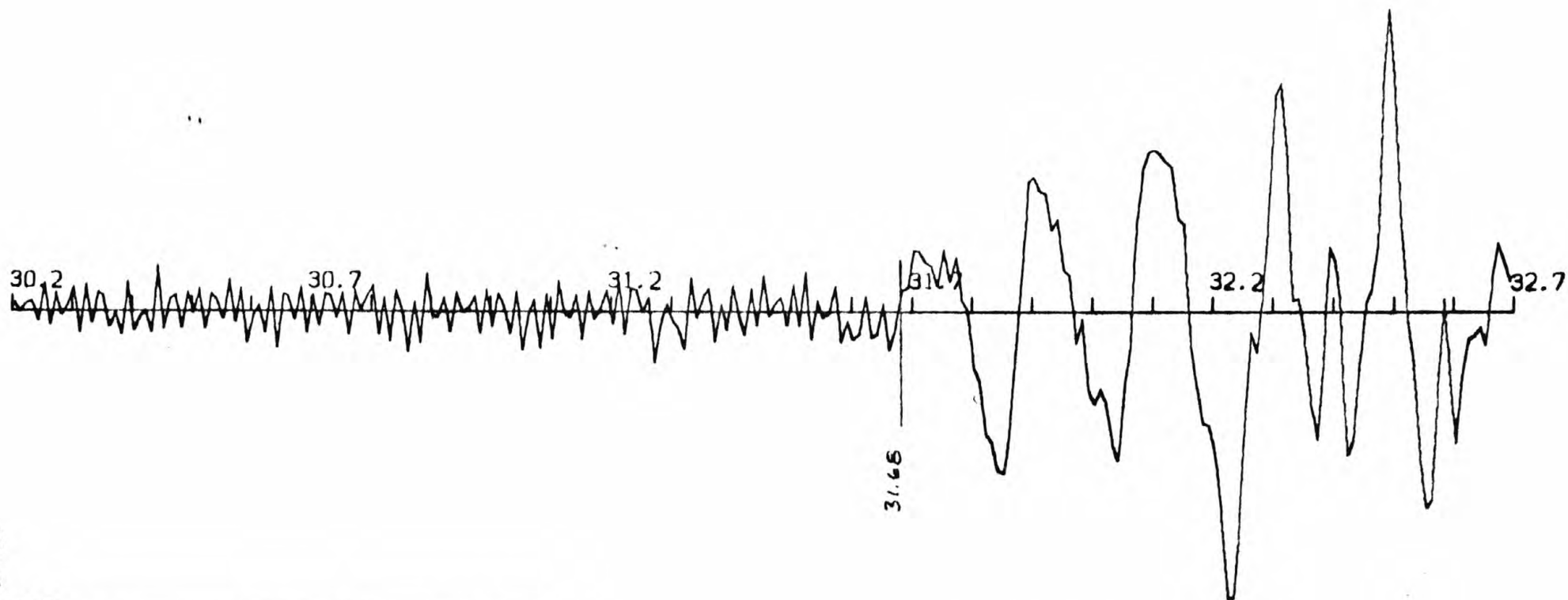
SAUDI ARABIAN REFRACTION PROFILE (10HP)

SHOT POINT 5

RECORDER LOCATION 549

DISTANCE FROM SHOT (KM) = 198.816

TSCALE (CM/SEC) = 10.0



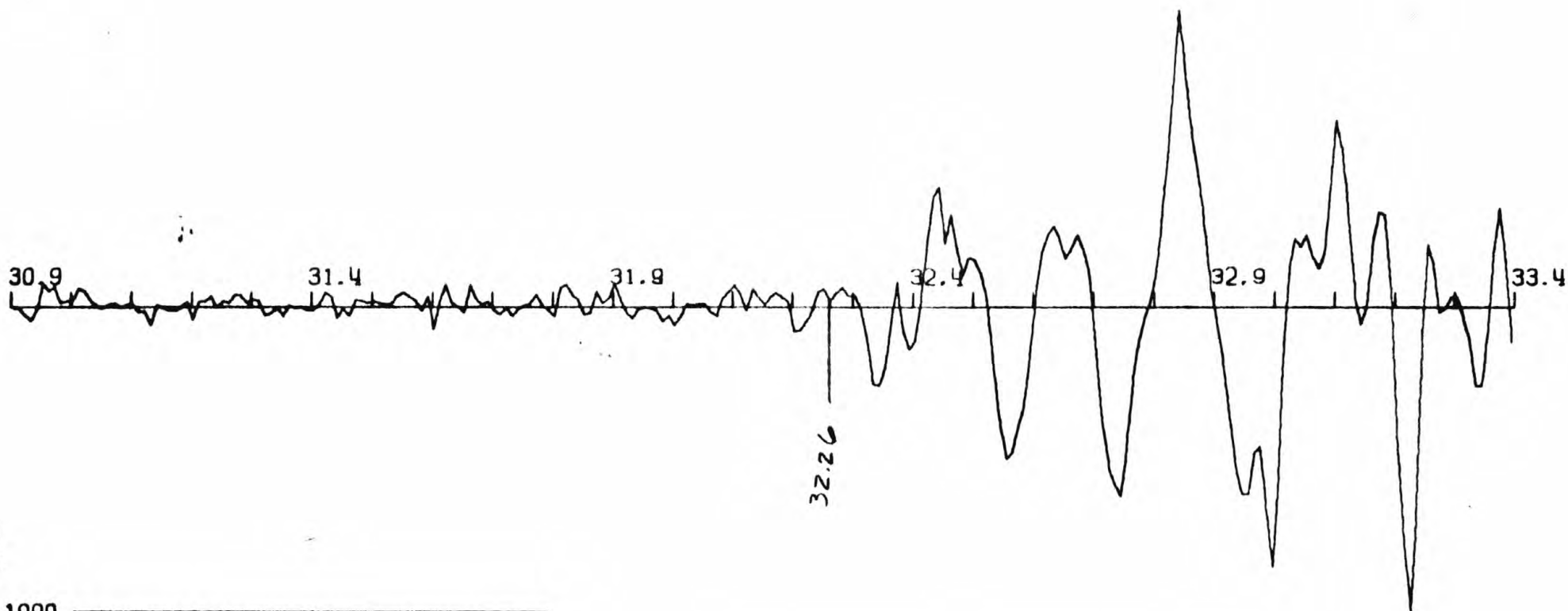
SAUDI ARABIAN REFRACTION PROFILE (15HP)

SHOT POINT 5

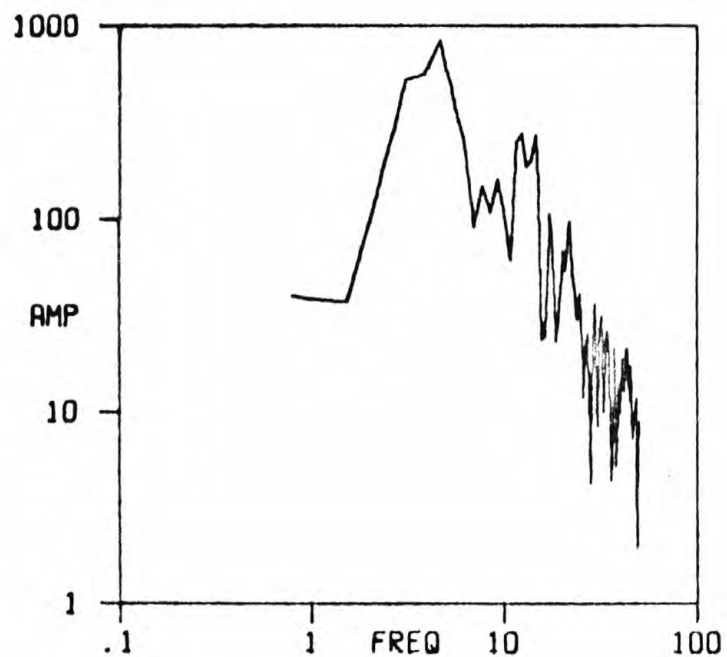
RECORDER LOCATION 549

DISTANCE FROM SHOT (KM) = 198.816

TSCALE (CM/SEC) = 10.0



70L



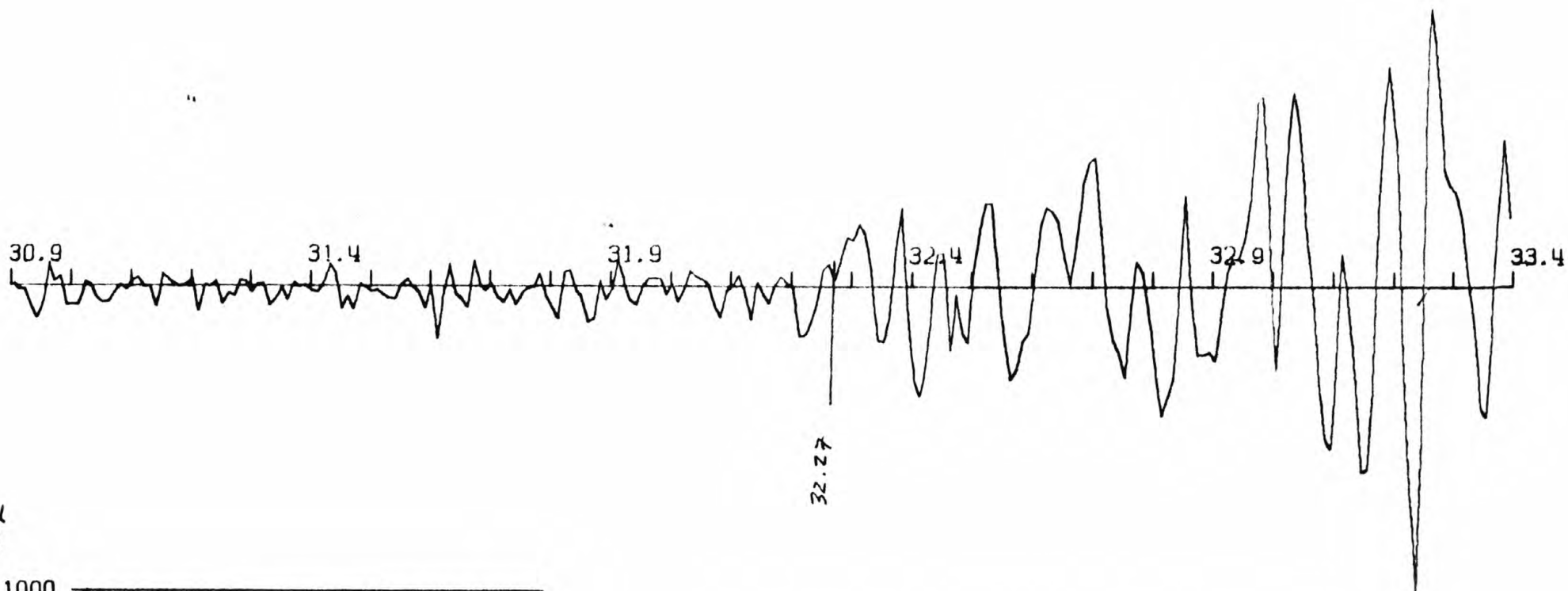
SAUDI ARABIAN REFRACTION PROFILE

SHOT POINT 5

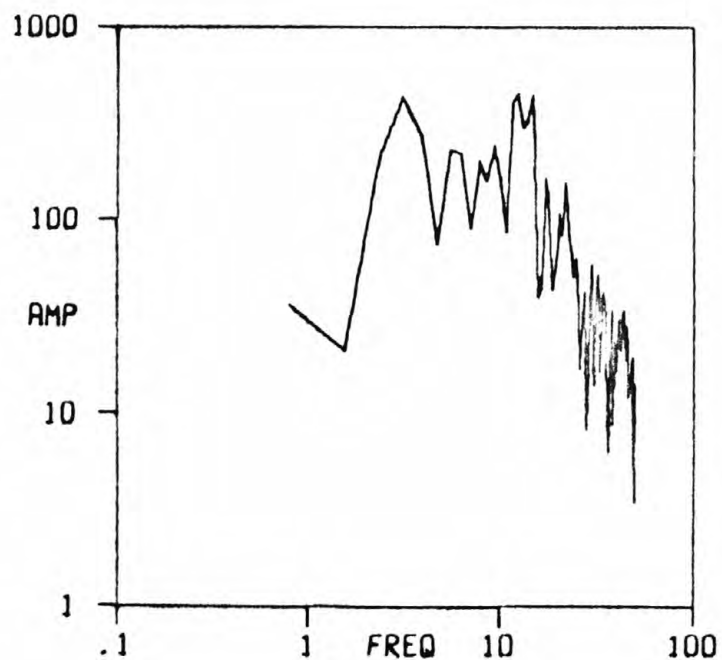
RECORDER LOCATION 545

DISTANCE FROM SHOT (KM) = 203.376

TSCALE (CM/SEC) = 10.0



107



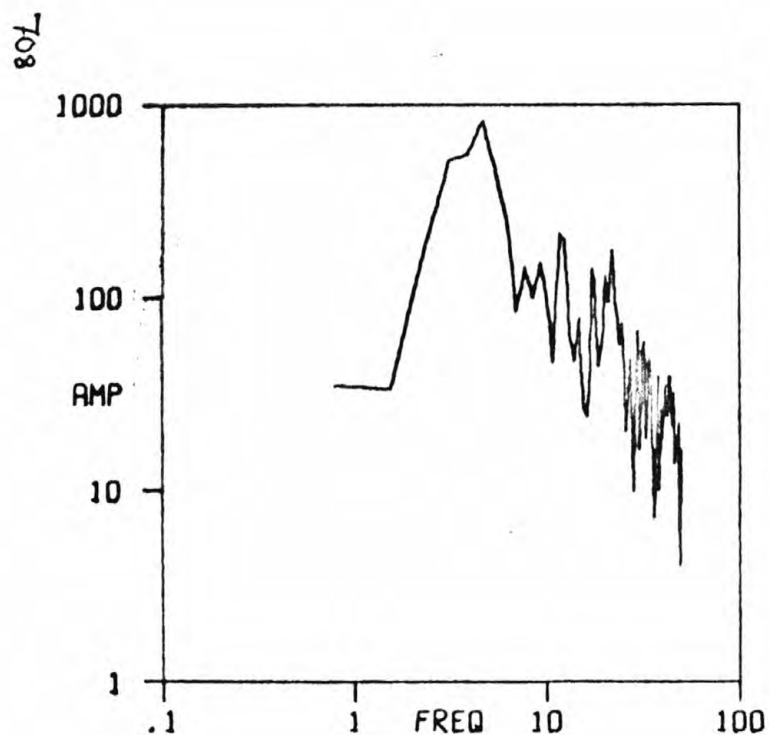
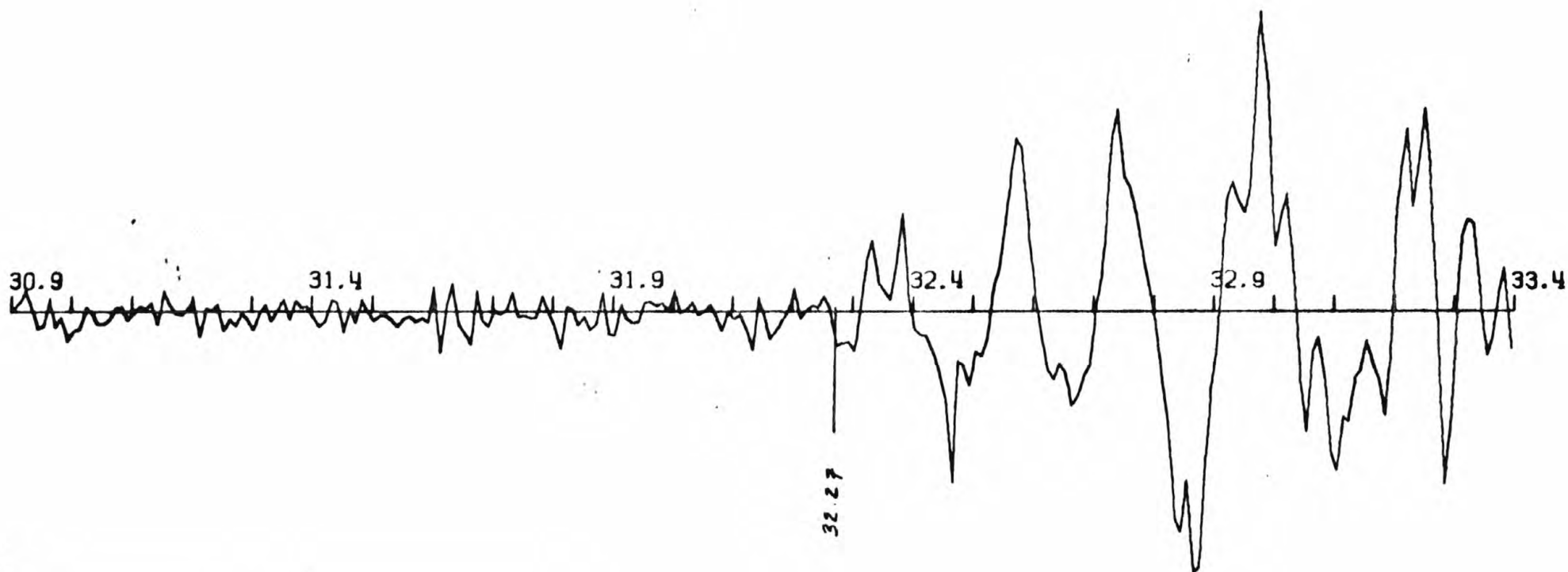
SAUDI ARABIAN REFRACTION PROFILE (SHP)

SHOT POINT 5

RECORDER LOCATION 545

DISTANCE FROM SHOT (KM) = 203.376

TSCALE (CM/SEC) = 10.0



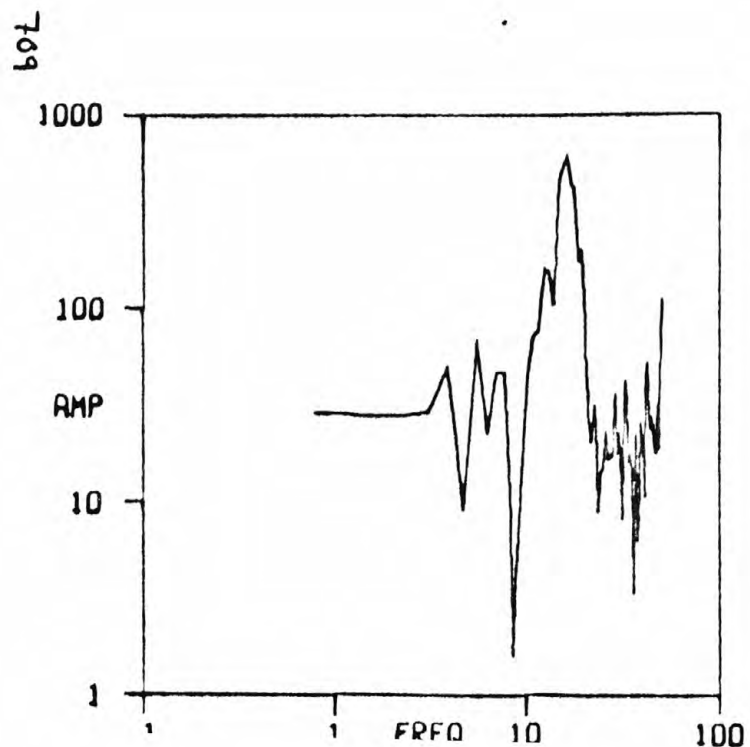
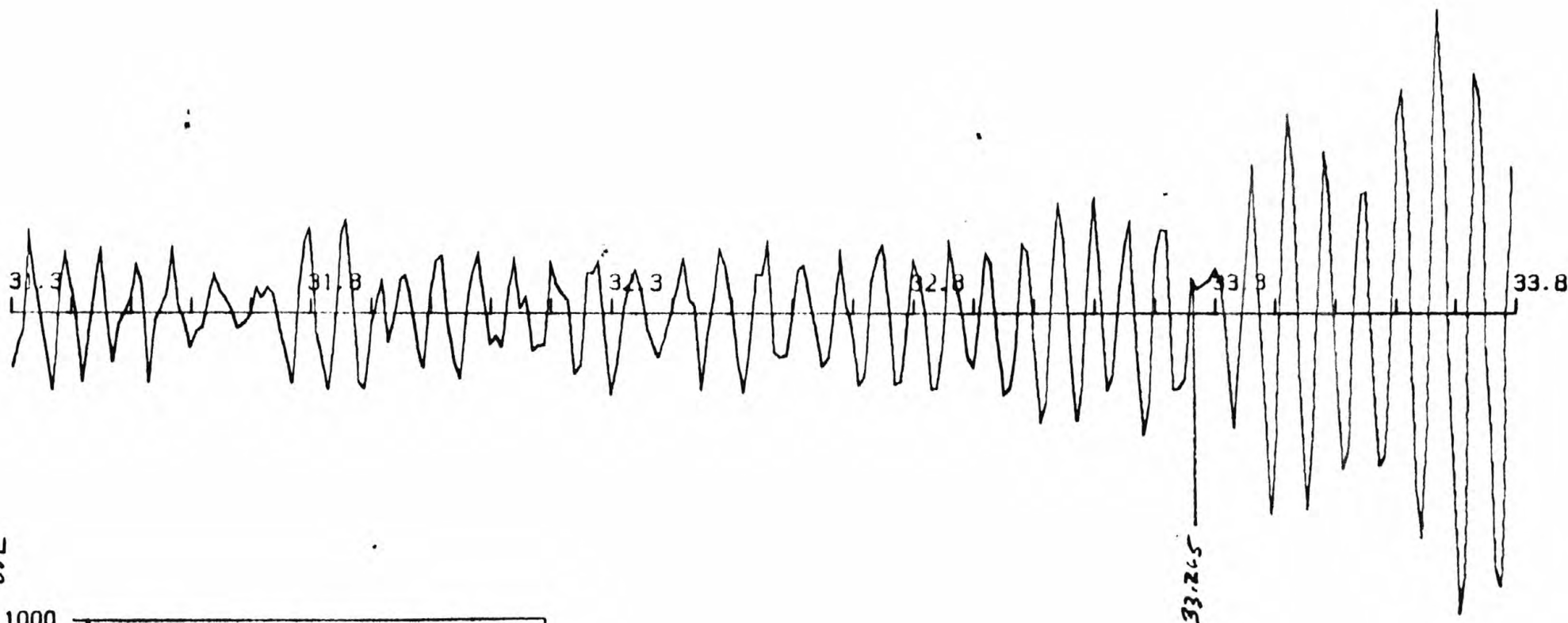
SAUDI ARABIAN REFRACTION PROFILE (15HP)

SHOT POINT 5

RECORDER LOCATION 545

DISTANCE FROM SHOT (KM) = 203.376

TSCALE (CM/SEC) = 10.0



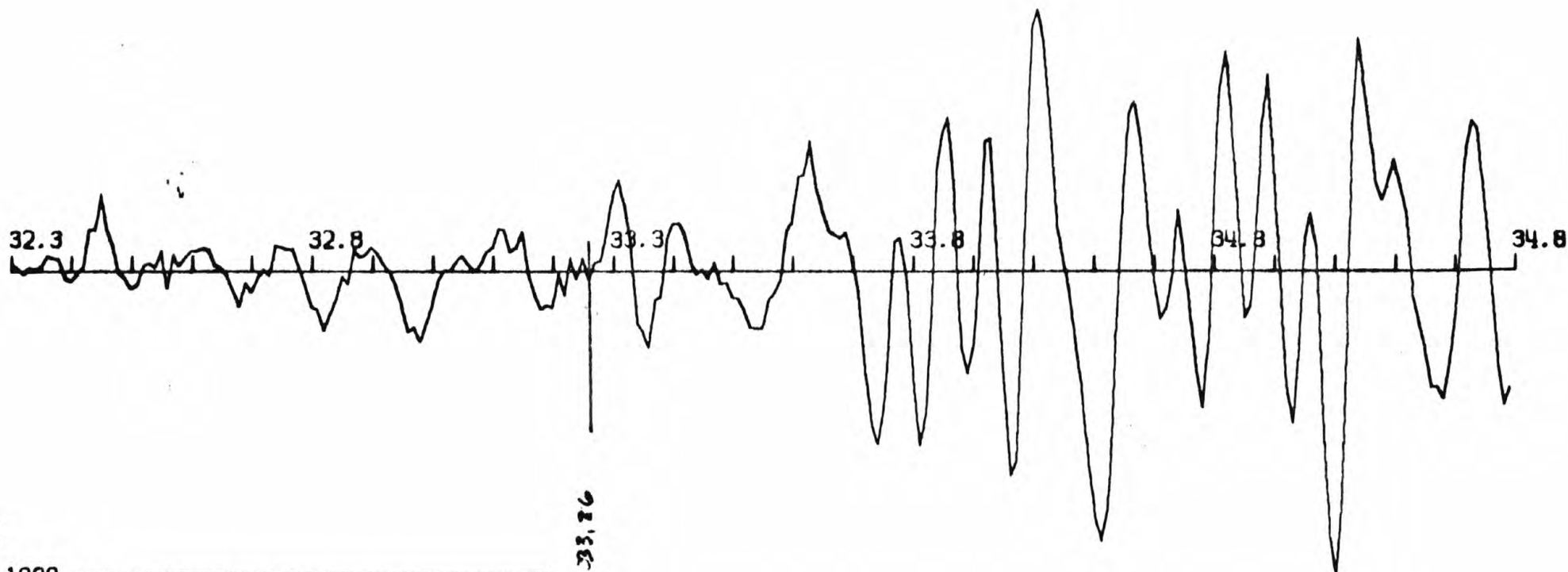
SAUDI ARABIAN REFRACTION PROFILE (15.17 B)

SHOT POINT 5

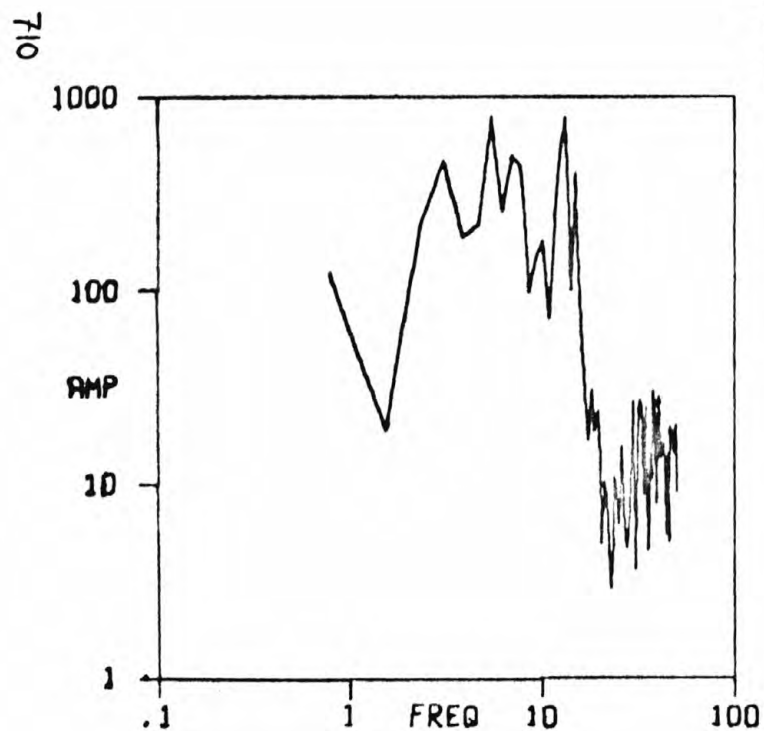
RECORDER LOCATION 538

DISTANCE FROM SHOT (KM) = 211.750

TSCALE (CM/SEC) = 10.0



33.26



SAUDI ARABIAN REFRACTION PROFILE (15LP)

SHOT POINT 5

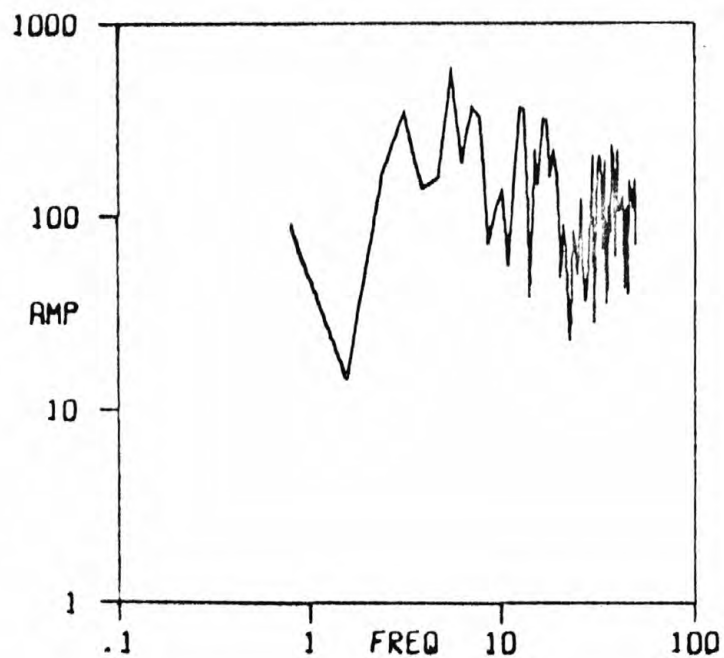
RECORDER LOCATION 538

DISTANCE FROM SHOT (KM) = 211.750

TSCALE (CM/SEC) = 10.0



111



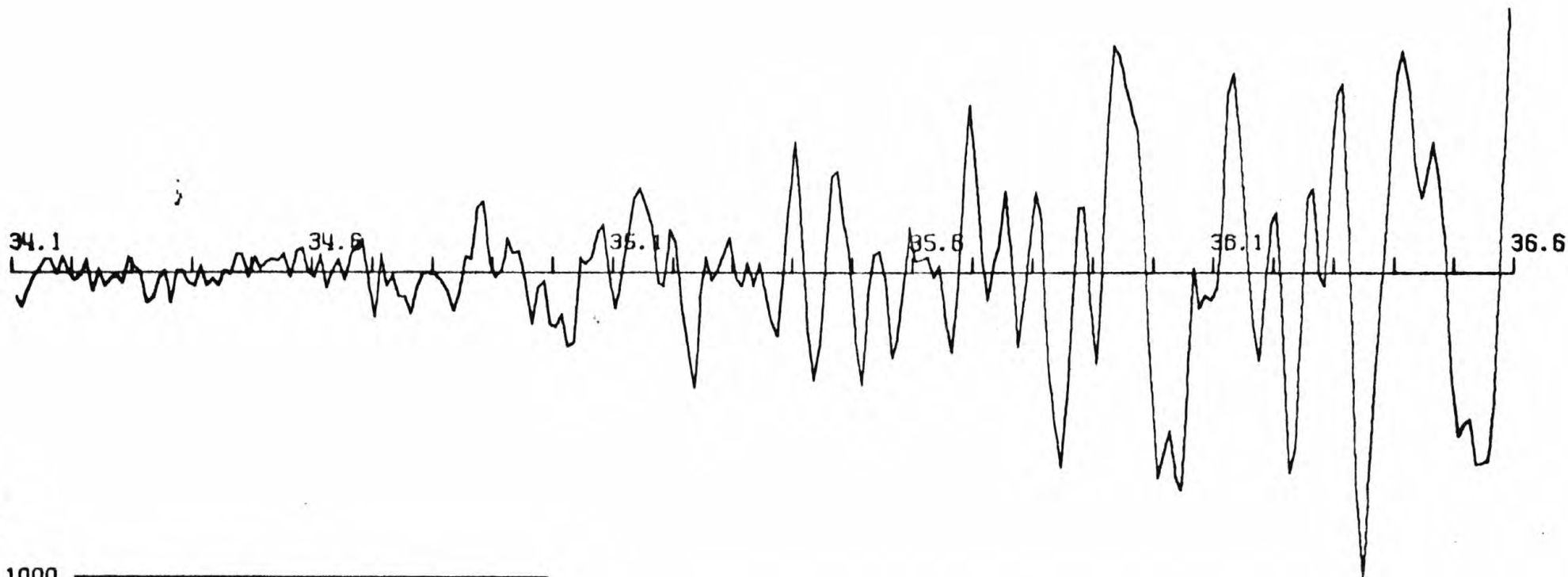
SAUDI ARABIAN REFRACTION PROFILE (15HP)

SHOT POINT 5

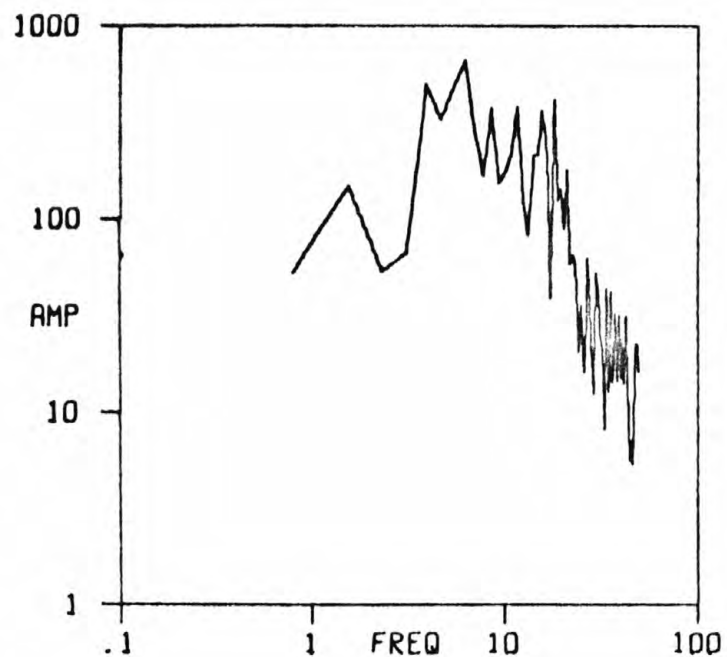
RECORDER LOCATION 538

DISTANCE FROM SHOT (KM) = 211.750

TSCALE (CM/SEC) = 10.0



712



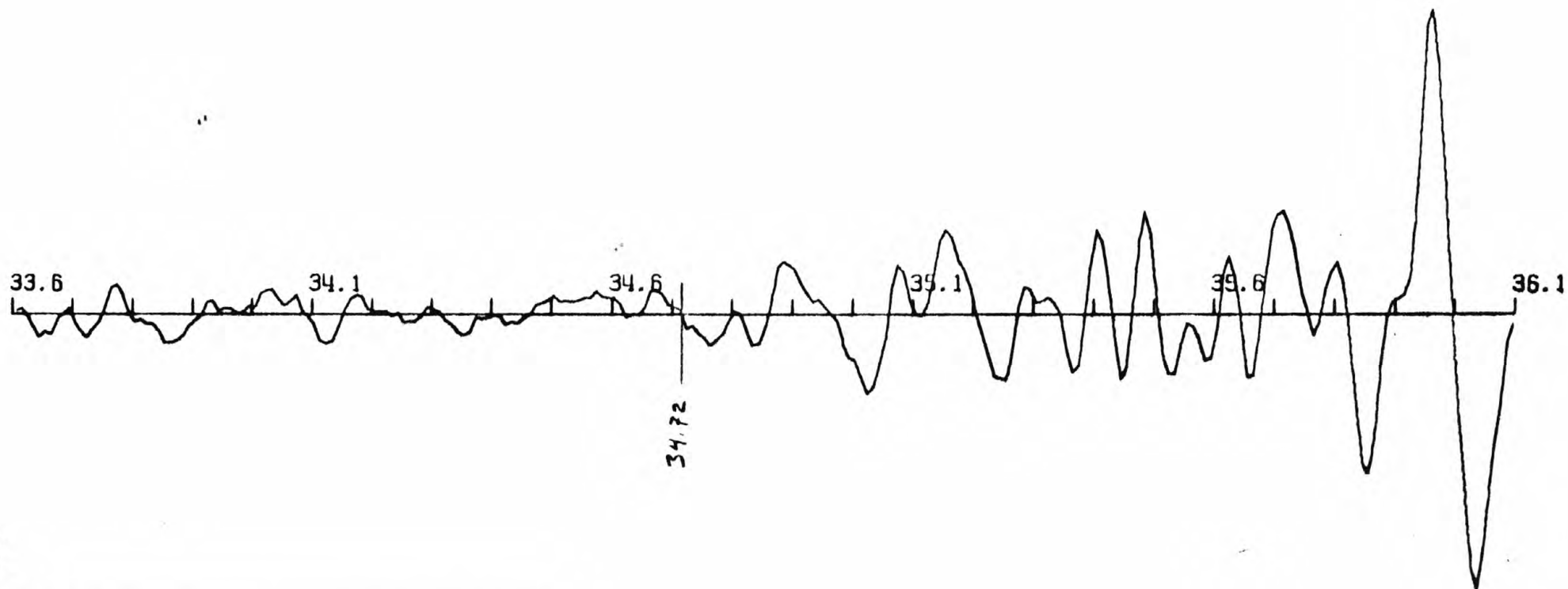
SAUDI ARABIAN REFRACTION PROFILE

SHOT POINT 5

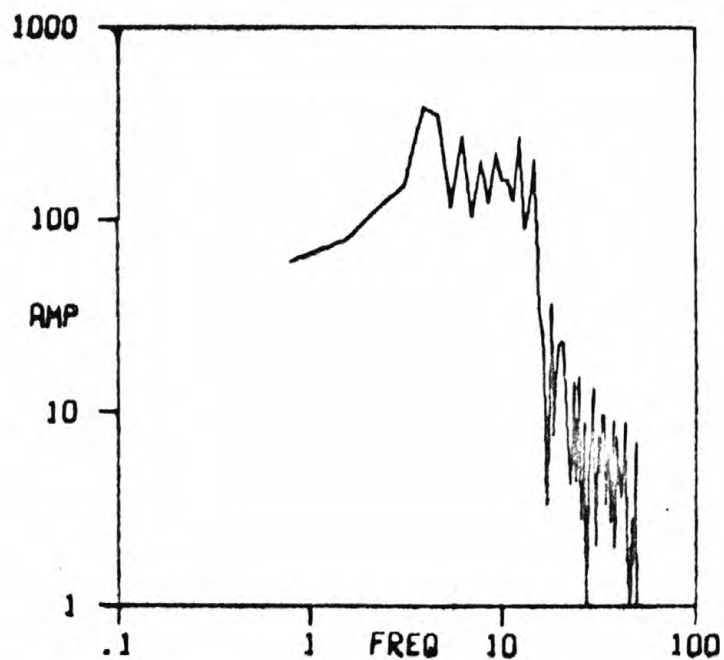
RECORDER LOCATION 532

DISTANCE FROM SHOT (KM) = 225.588

TSCALE (CM/SEC) = 10.0



512



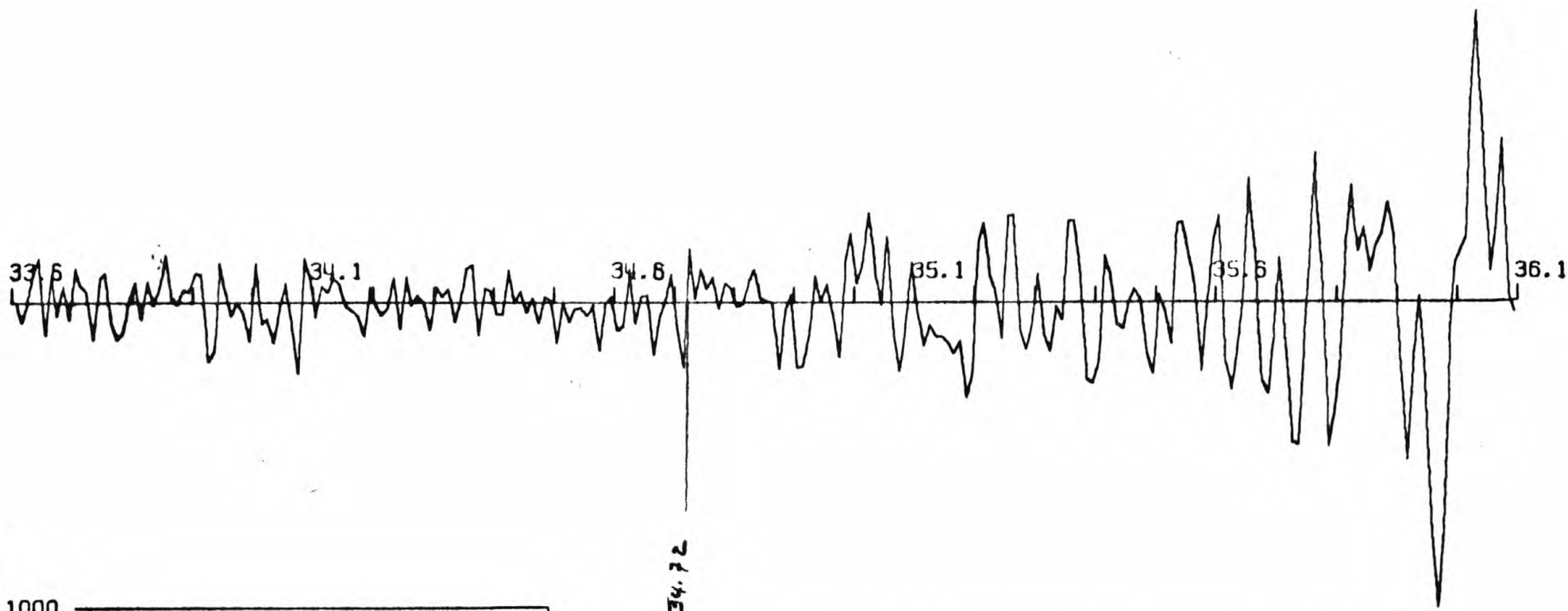
SAUDI ARABIAN REFRACTION PROFILE (15LP)

SHOT POINT 5

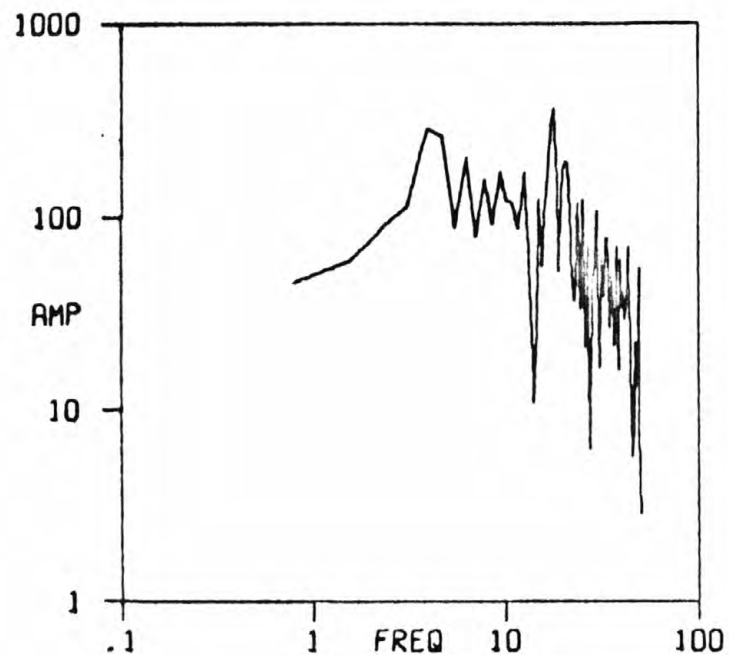
RECORDER LOCATION 532

DISTANCE FROM SHOT (KM) = 225.588

TSCALE (CM/SEC) = 10.0



714



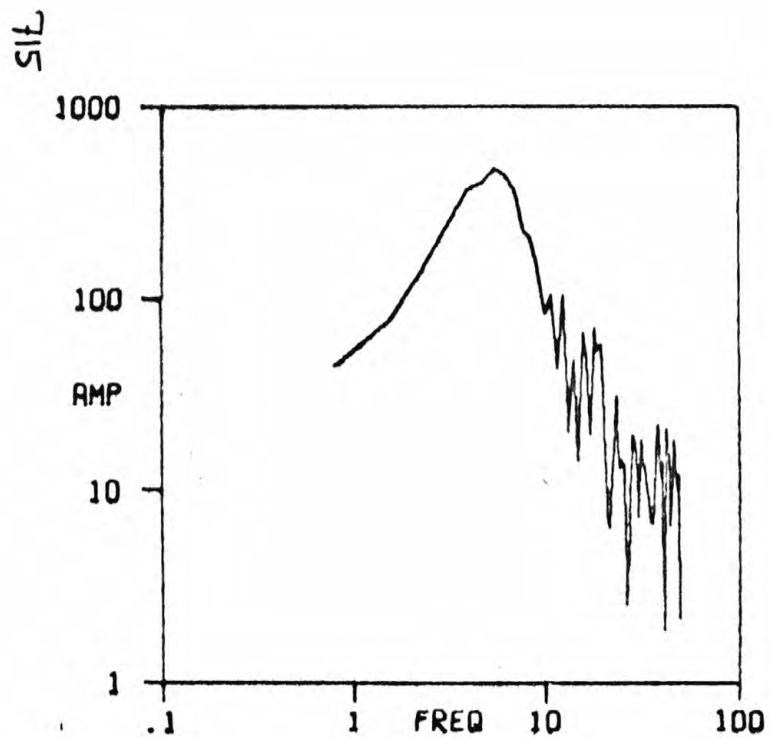
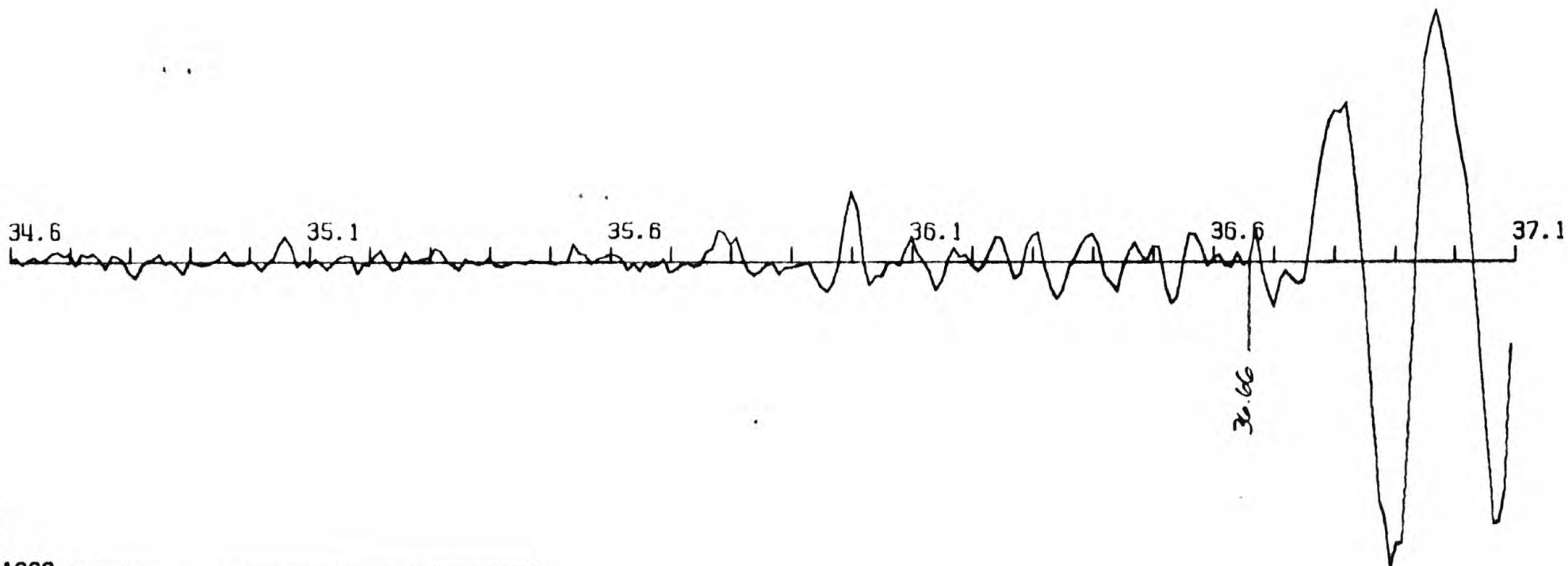
SAUDI ARABIAN REFRACTION PROFILE (15HP)

SHOT POINT 5

RECORDER LOCATION 532

DISTANCE FROM SHOT (KM) = 225.588

TSCALE (CM/SEC) = 10.0



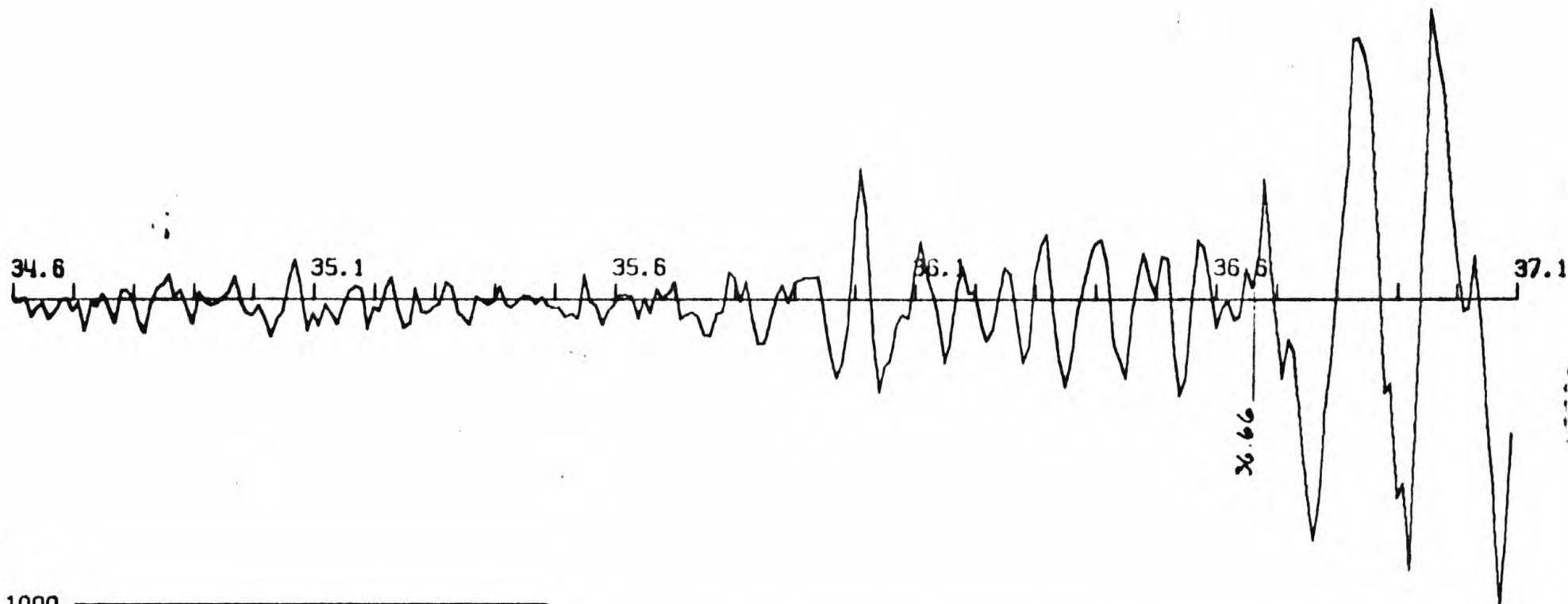
SAUDI ARABIAN REFRACTION PROFILE

SHOT POINT 5

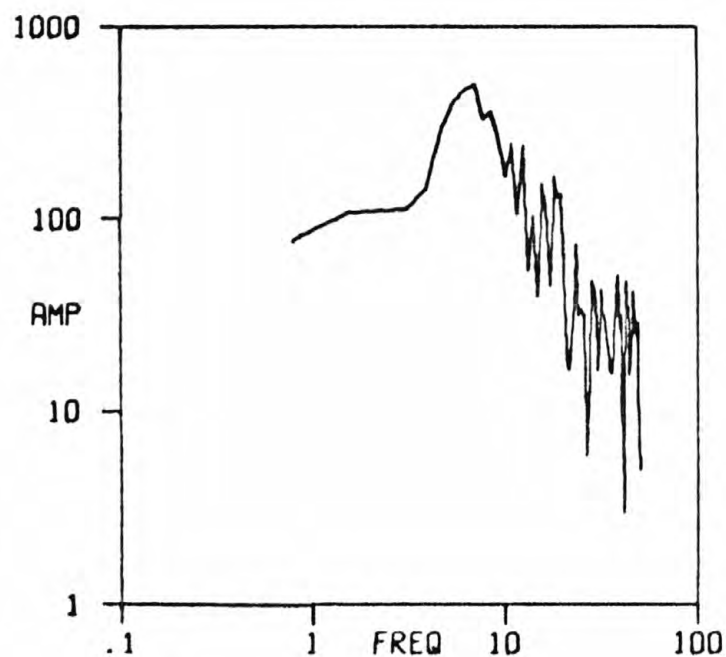
RECORDER LOCATION 529

DISTANCE FROM SHOT (KM) = 231.490

TSCALE (CM/SEC) = 10.0



7/2



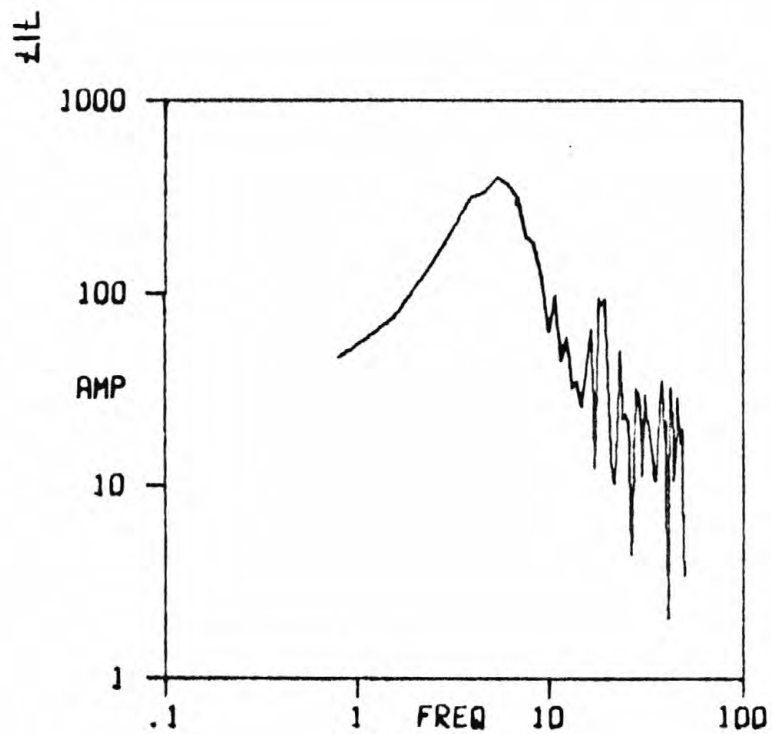
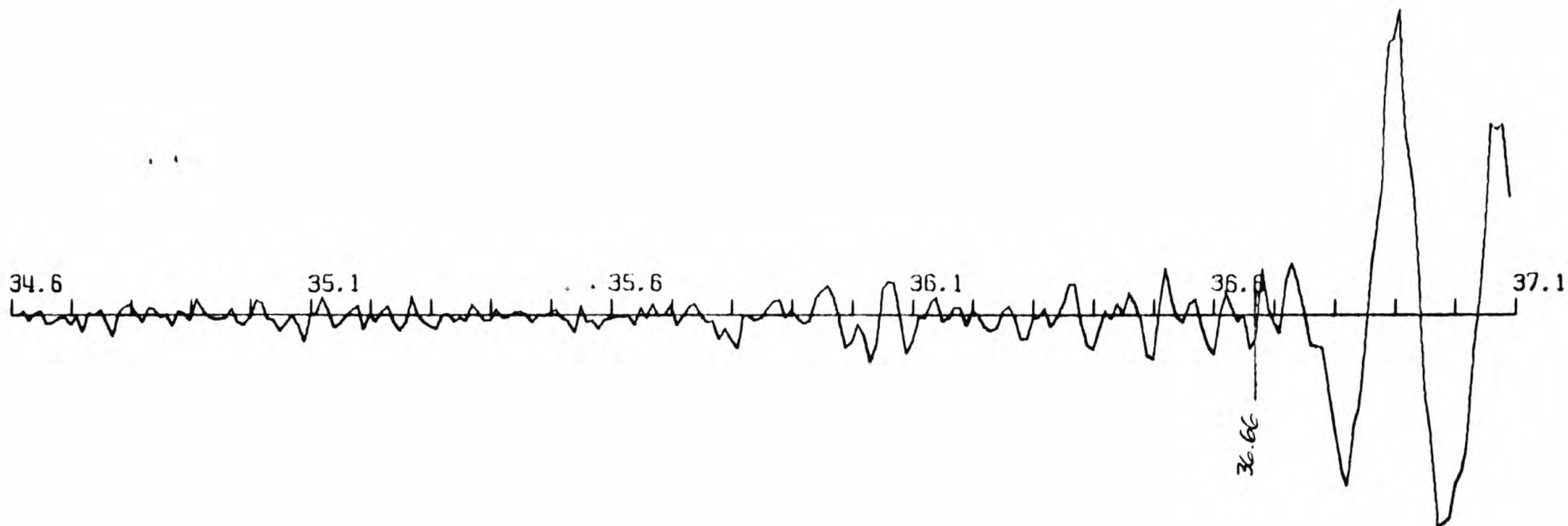
SAUDI ARABIAN REFRACTION PROFILE (SHP)

SHOT POINT 5

RECORDER LOCATION 529

DISTANCE FROM SHOT (KM) = 231.490

TSCALE (CM/SEC) = 10.0



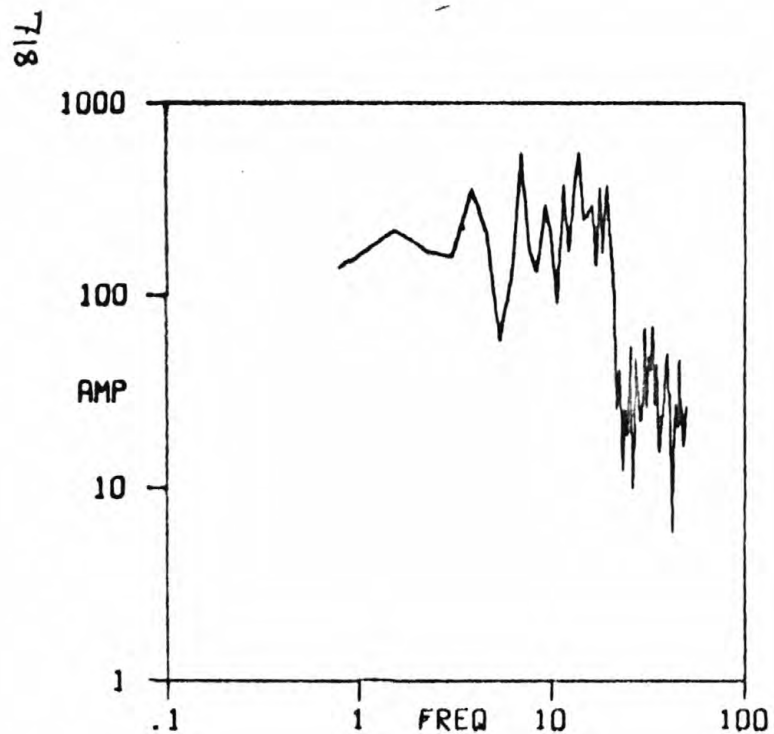
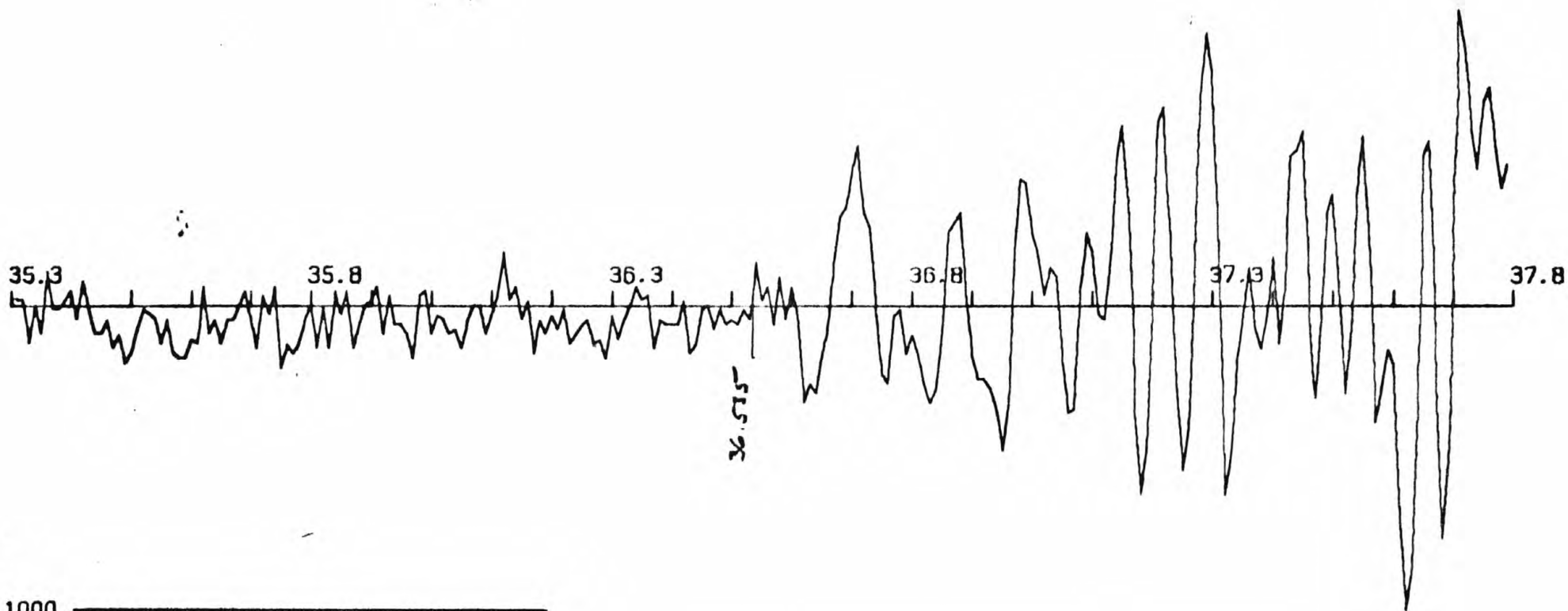
SAUDI ARABIAN REFRACTION PROFILE (15HP)

SHOT POINT 5

RECORDER LOCATION 529

DISTANCE FROM SHOT (KM) = 231.490

TSCALE (CM/SEC) = 10.0



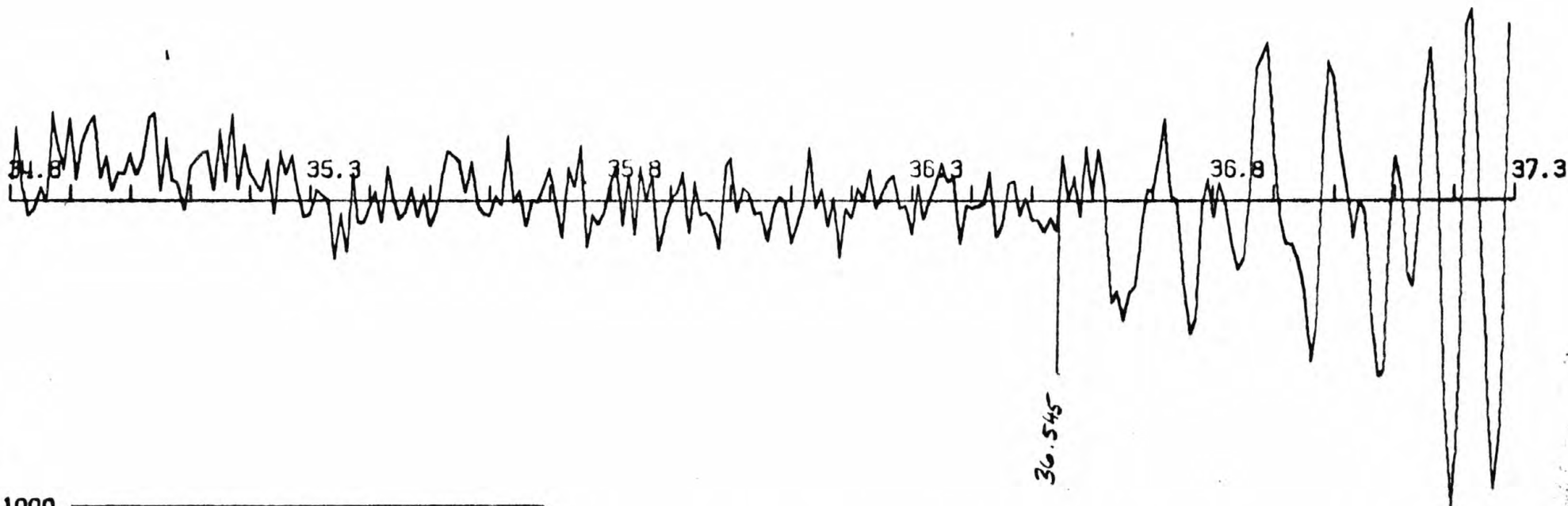
SAUDI ARABIAN REFRACTION PROFILE

SHOT POINT 5

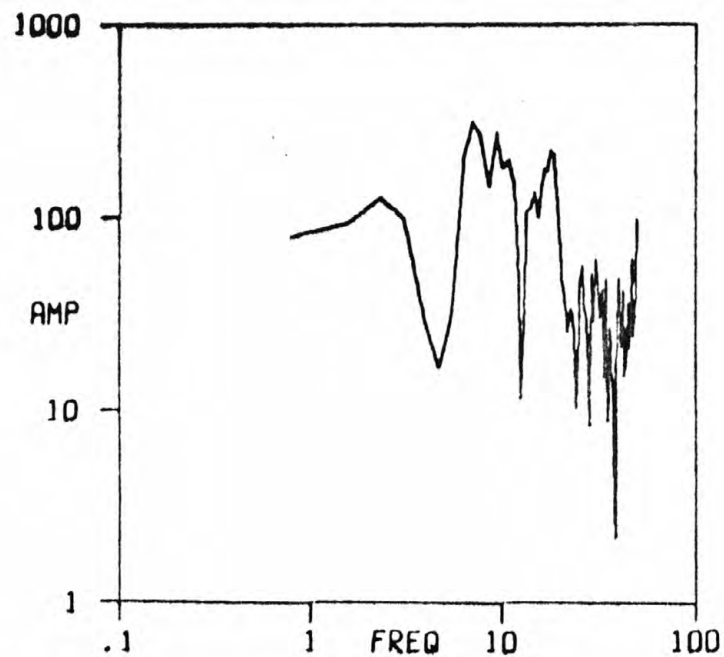
RECORDER LOCATION 526

DISTANCE FROM SHOT (KM) = 238.455

TSCALE (CM/SEC) = 10.0



bit



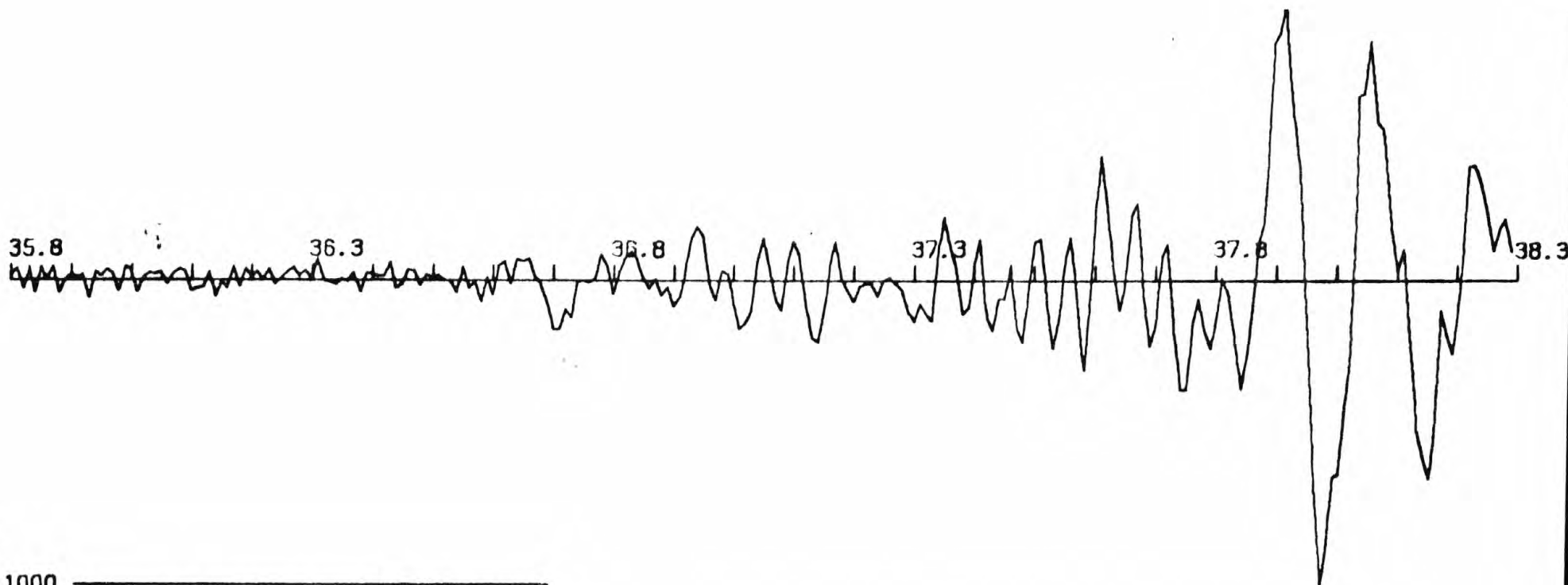
SAUDI ARABIAN REFRACTION PROFILE (SHP)

SHOT POINT 5

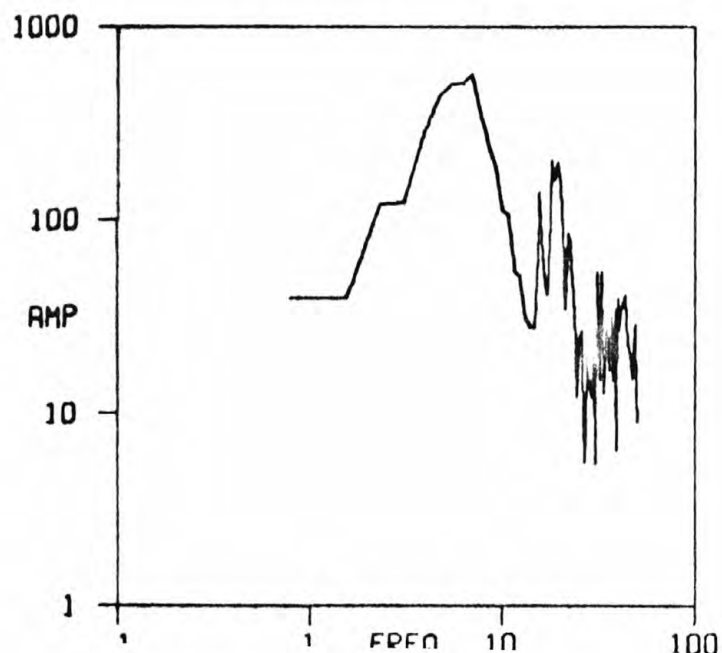
RECORDER LOCATION 526

DISTANCE FROM SHOT (KM) = 238.455

TSCALE (CM/SEC) = 10.0



720



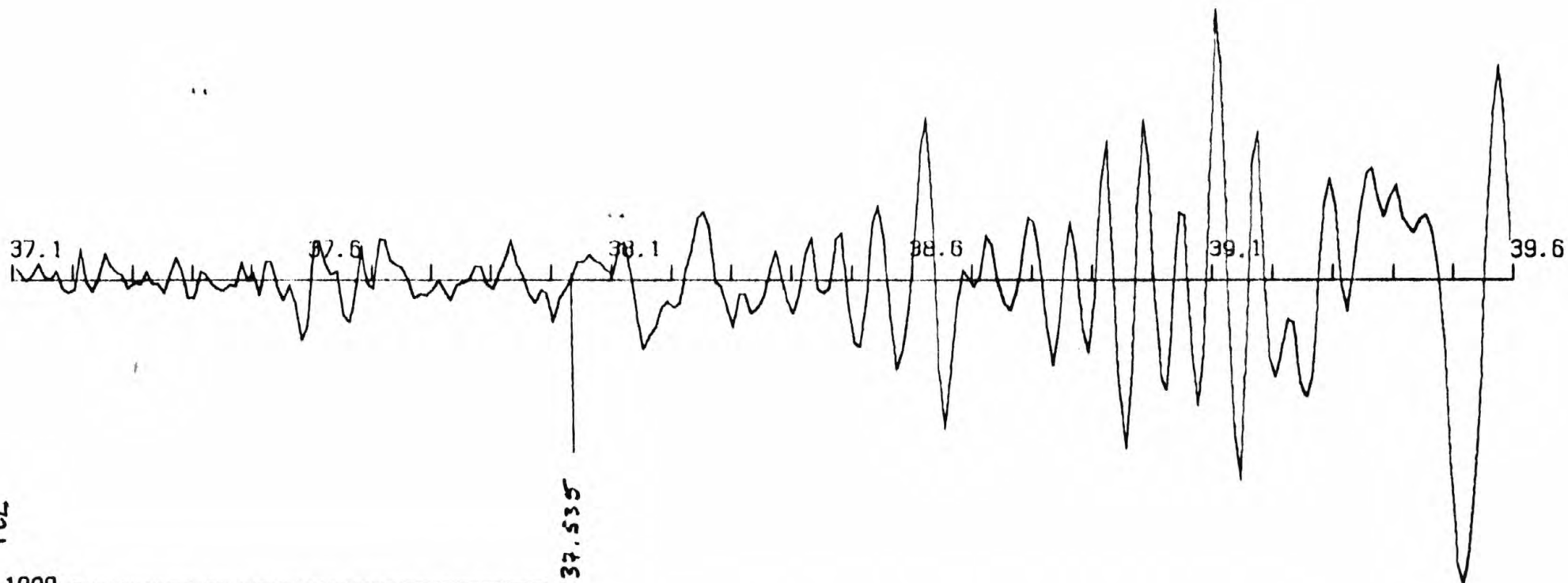
SAUDI ARABIAN REFRACTION PROFILE (15HP)

SHOT POINT 5

RECORDER LOCATION 526

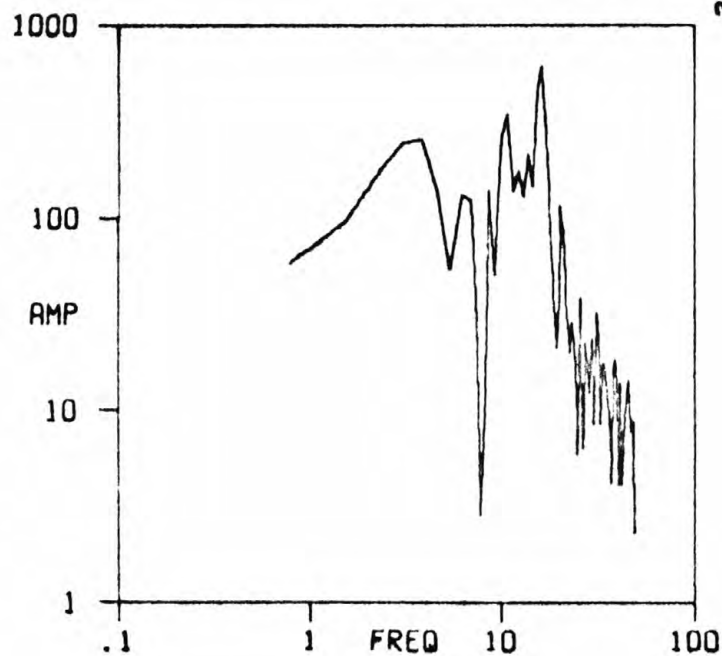
DISTANCE FROM SHOT (KM) = 238.455

TSCALE (CM/SEC) = 10.0



37.535

721



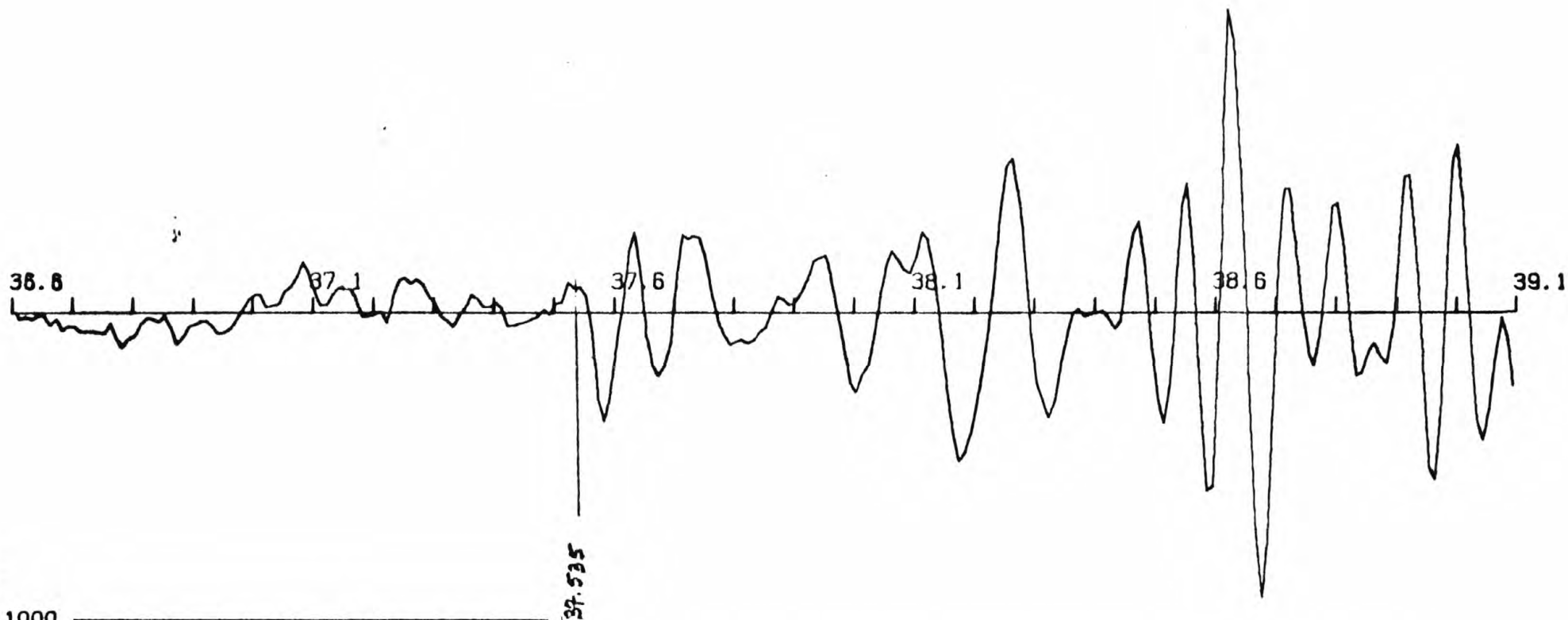
SAUDI ARABIAN REFRACTION PROFILE

SHOT POINT 5

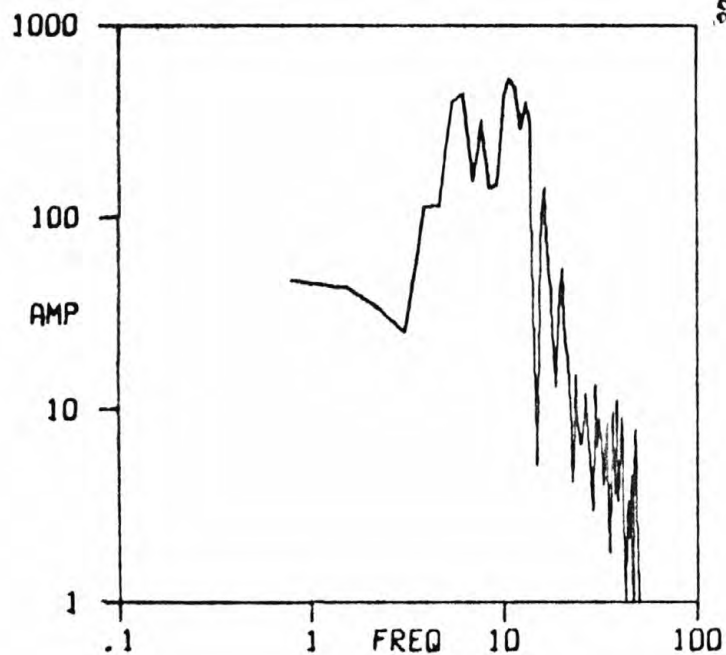
RECORDER LOCATION S20

DISTANCE FROM SHOT (KM) = 249.399

TSCALE (CM/SEC) = 10.0



722



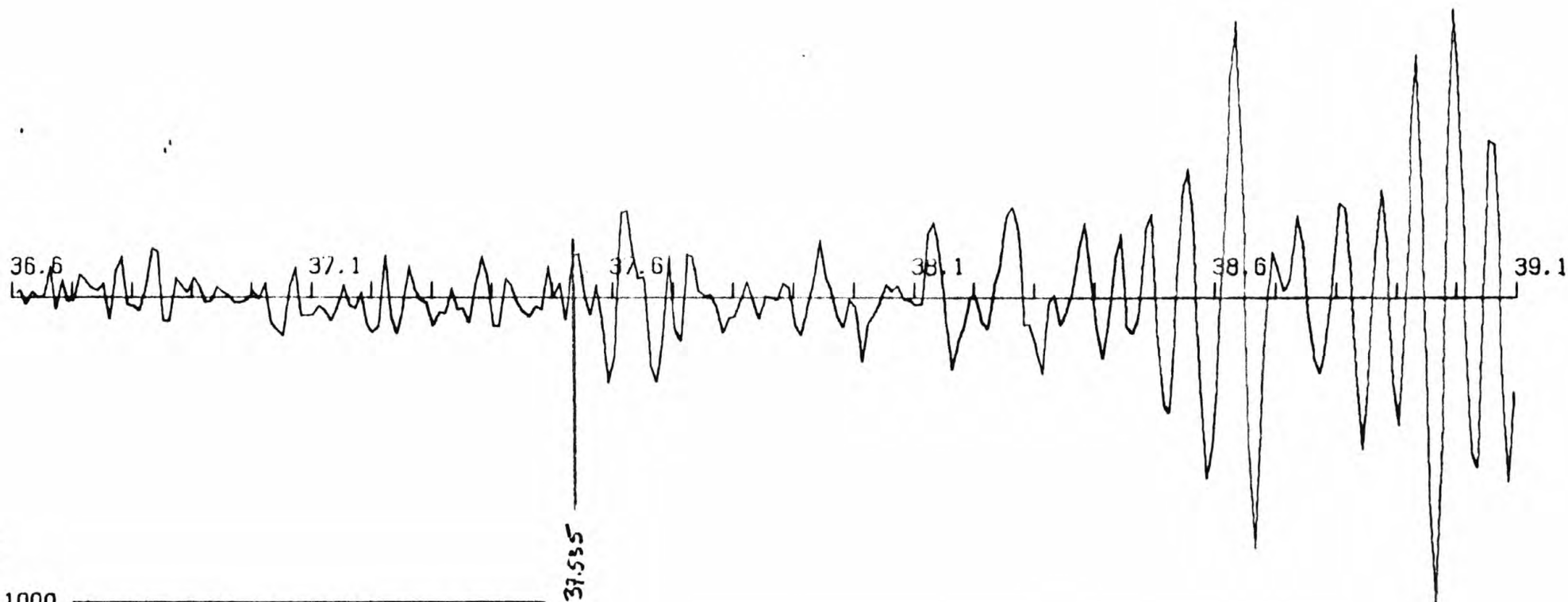
SAUDI ARABIAN REFRACTION PROFILE (15LP)

SHOT POINT 5

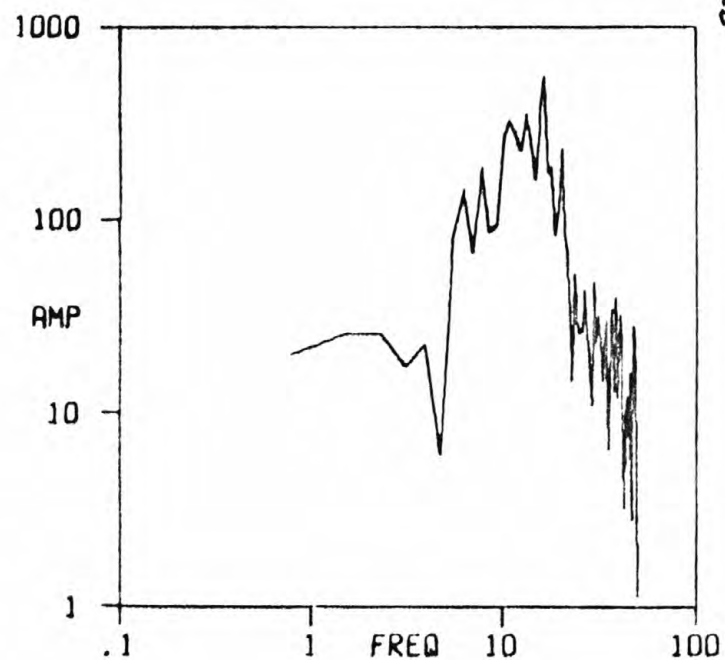
RECORDER LOCATION 520

DISTANCE FROM SHOT (KM) = 249.399

TSCALE (CM/SEC) = 10.0



723



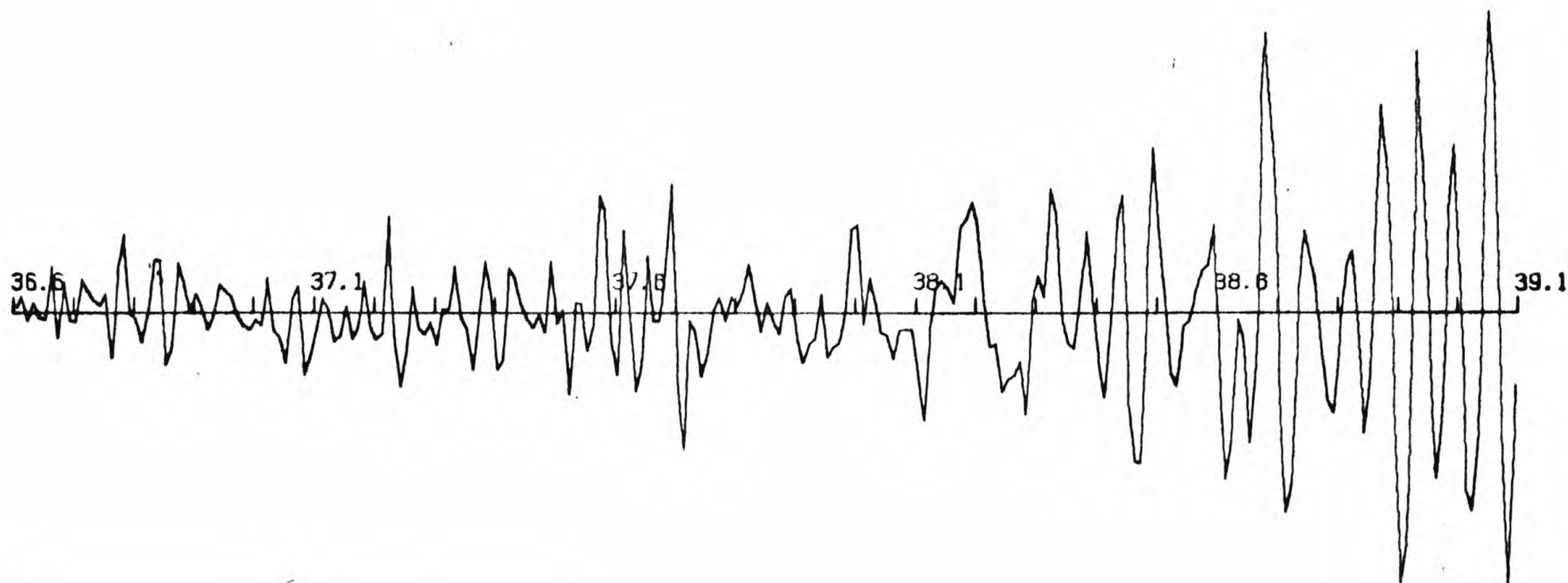
SAUDI ARABIAN REFRACTION PROFILE (SHP)

SHOT POINT 5

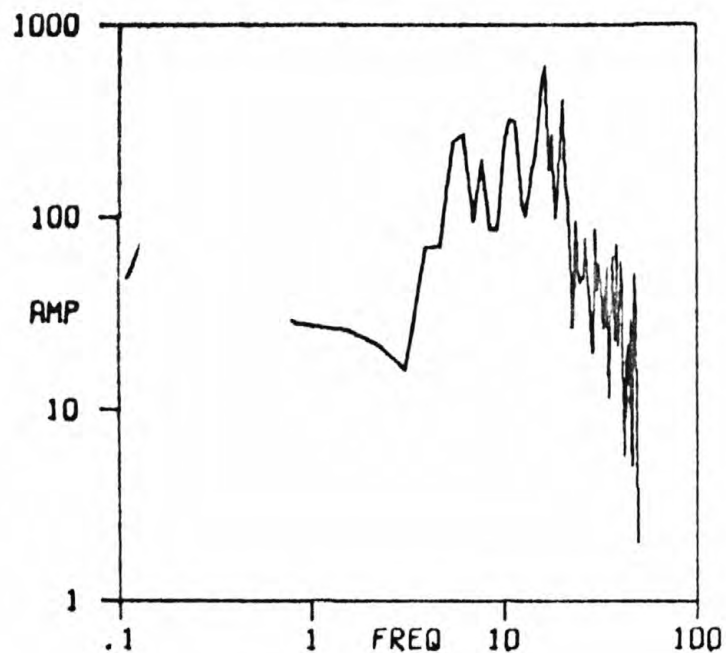
RECORDER LOCATION 520

DISTANCE FROM SHOT (KM) = 249.399

TSCALE (CM/SEC) = 10.0



724



SAUDI ARABIAN REFRACTION PROFILE (15HP)

SHOT POINT 5

RECORDER LOCATION 520

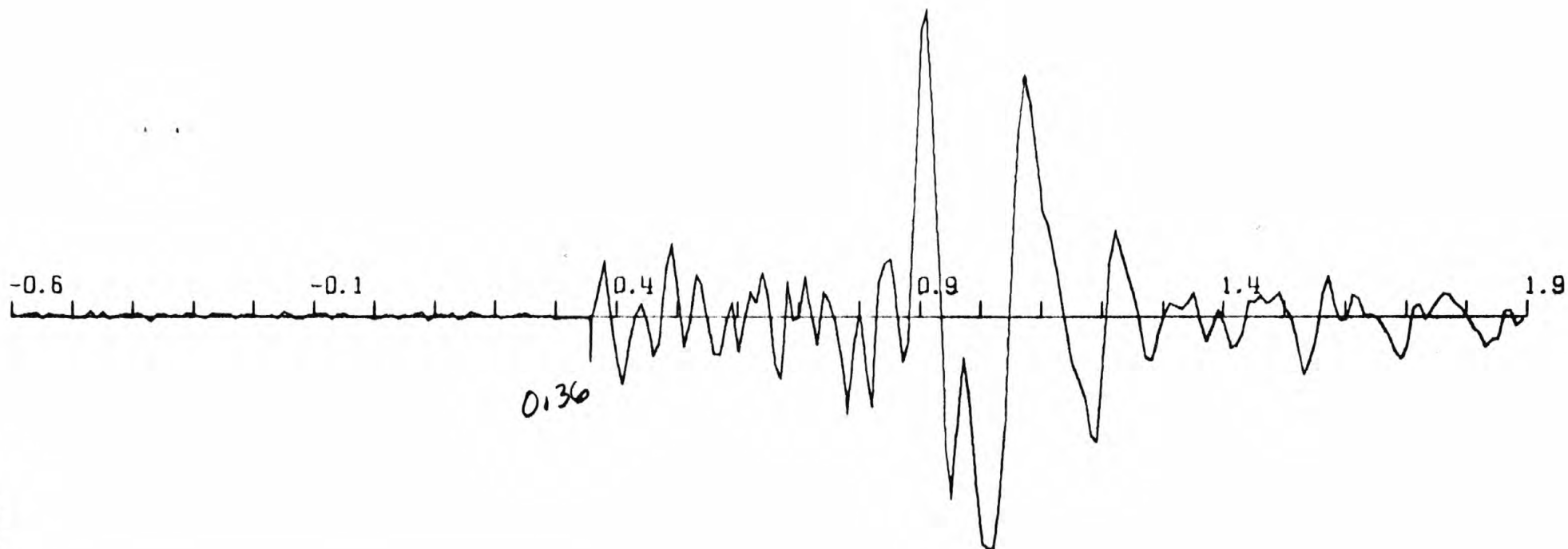
DISTANCE FROM SHOT (KM) = 249.399

TSCALE (CM/SEC) = 10.0

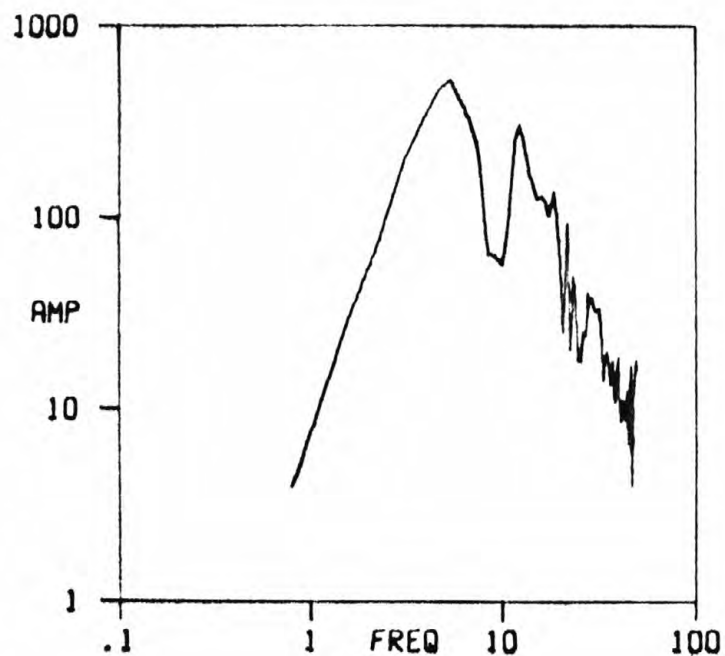
First Arrivals

Southwest from Shot Point 5

(1.8 to 132.4 km)



727



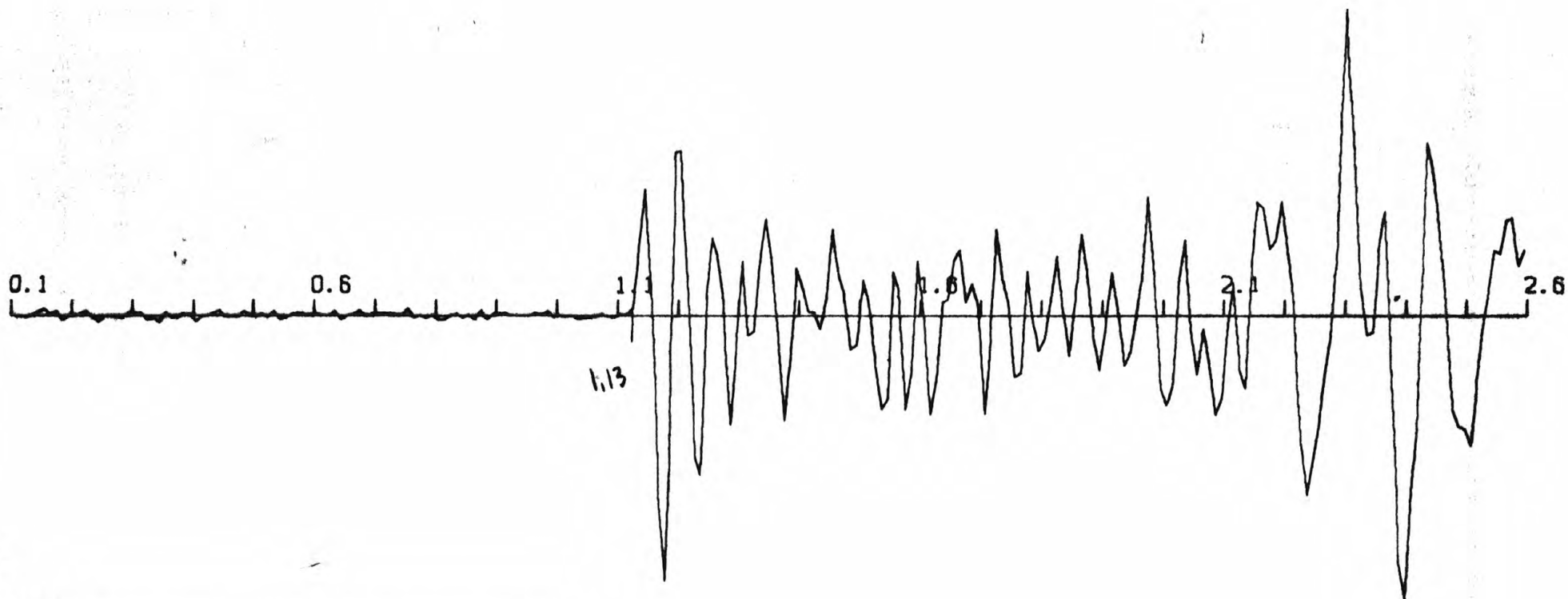
SAUDI ARABIAN REFRACTION PROFILE

SHOT POINT 5

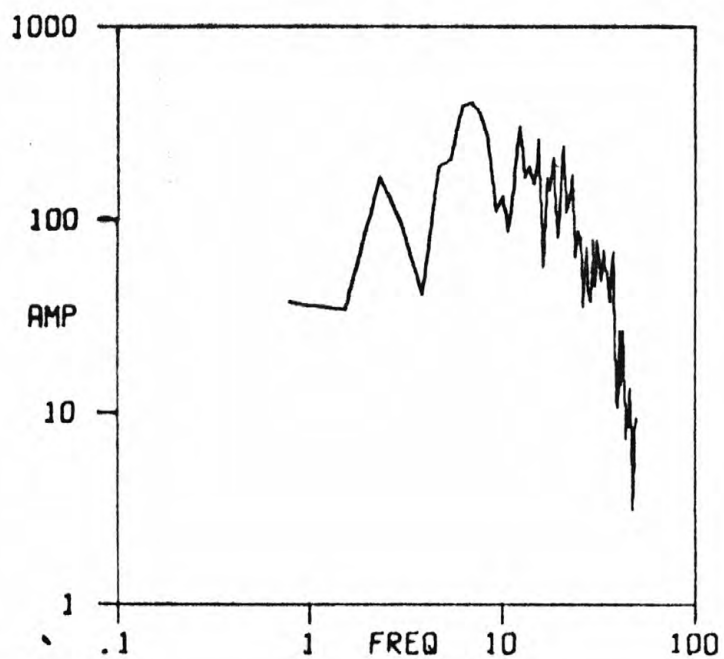
RECORDER LOCATION 697

DISTANCE FROM SHOT (KM) = -1.825

TSCALE (CM/SEC) = 10.0



728



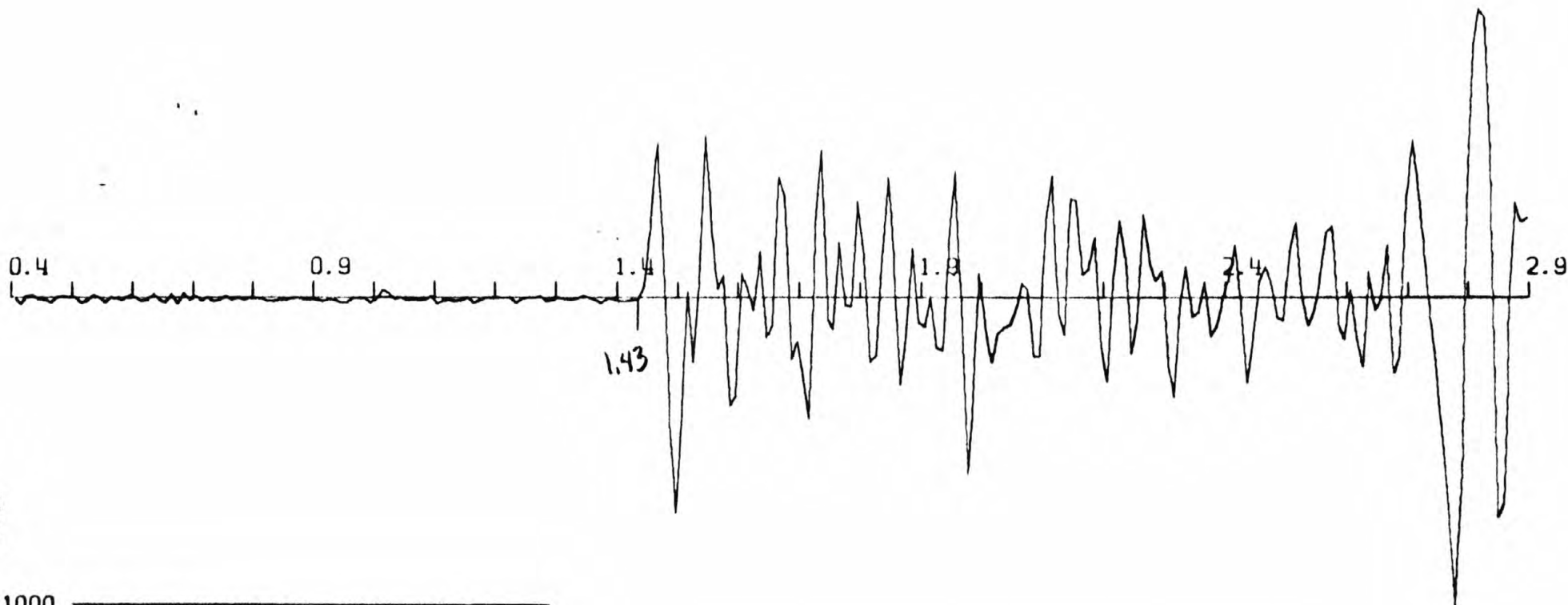
SAUDI ARABIAN REFRACTION PROFILE

SHOT POINT 5

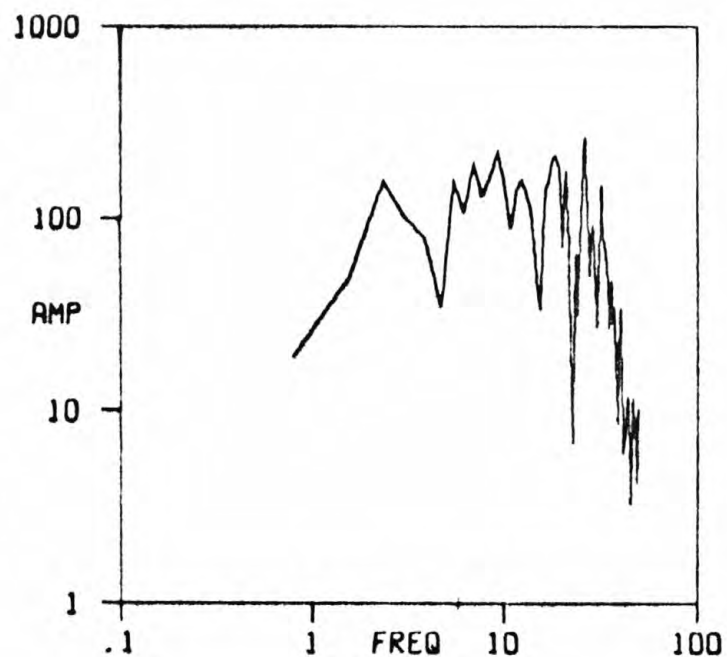
RECORDER LOCATION 699

DISTANCE FROM SHOT (KM) = -6.107

TSCALE (CM/SEC) = 10.0



729



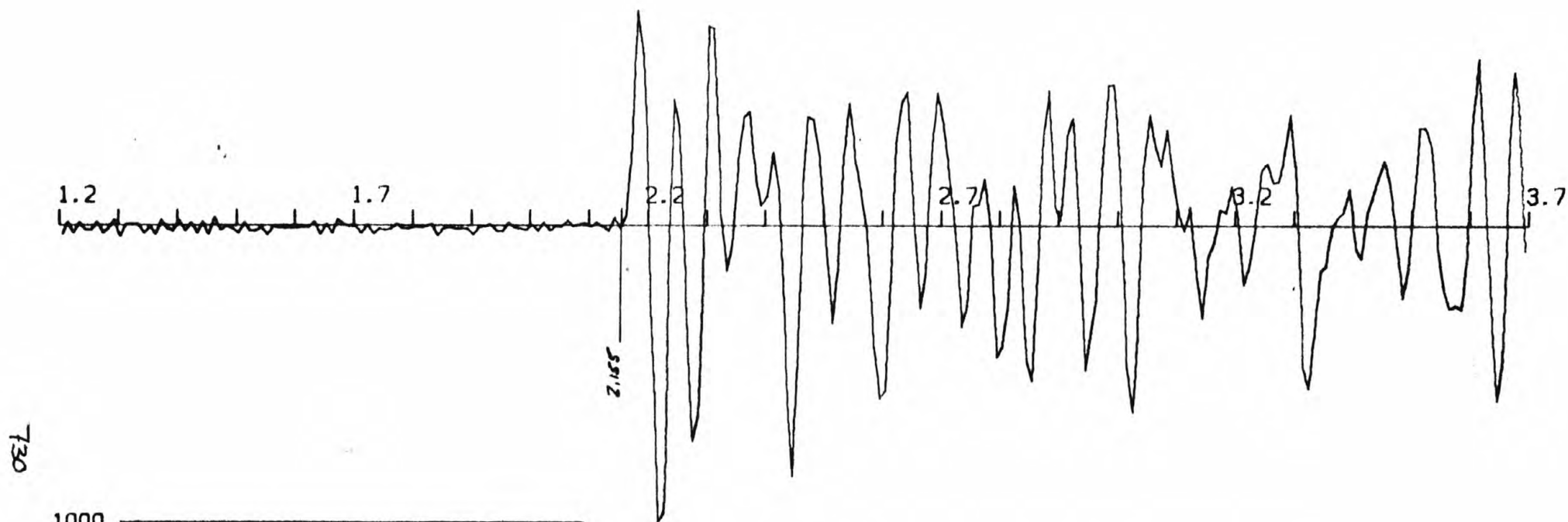
SAUDI ARABIAN REFRACTION PROFILE

SHOT POINT 5

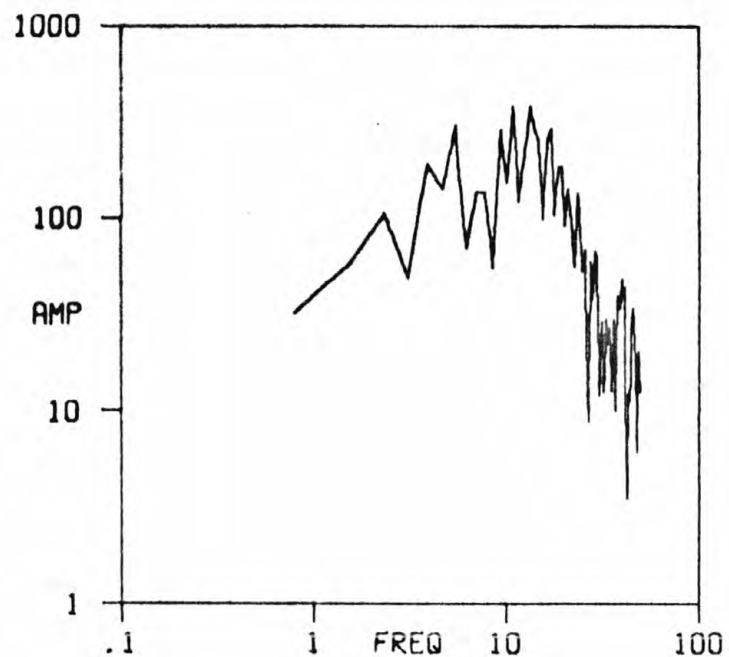
RECORDER LOCATION 700

DISTANCE FROM SHOT (KM) = -7.973

TSCALE (CM/SEC) = 10.0



730



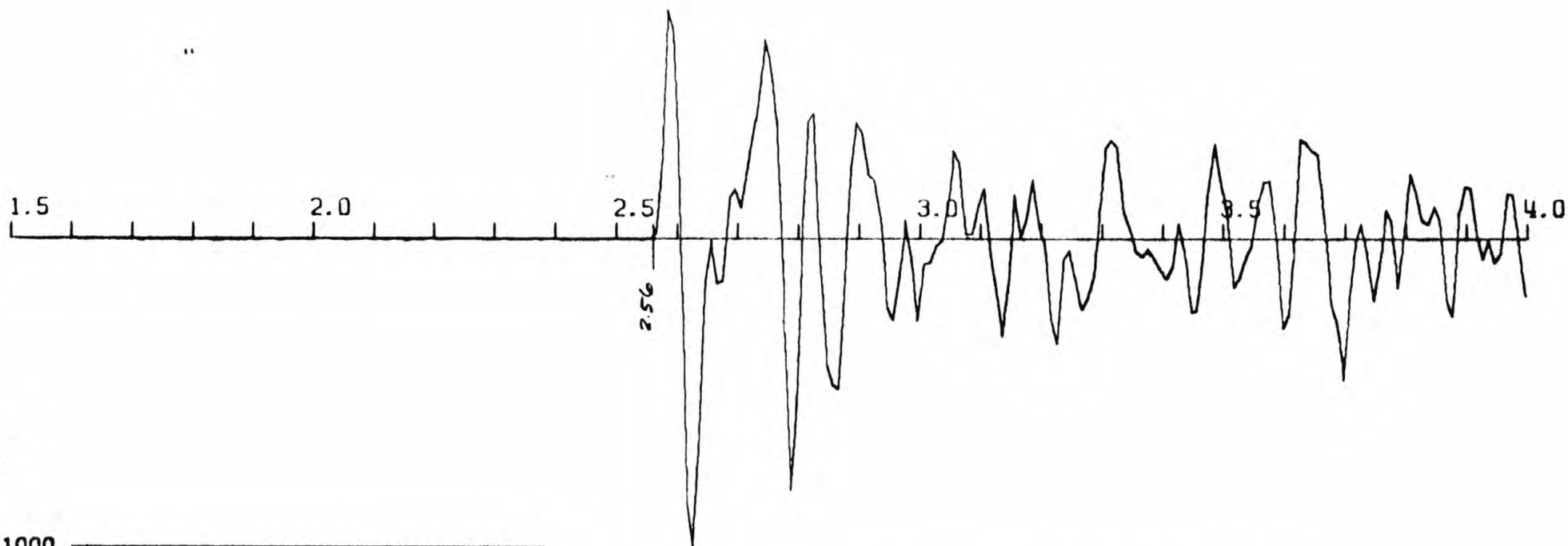
SAUDI ARABIAN REFRACTION PROFILE

SHOT POINT 5

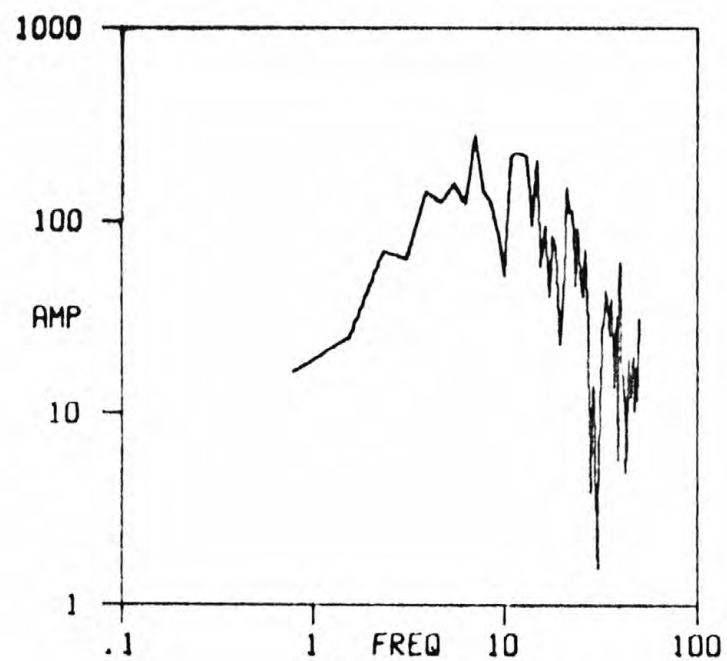
RECORDER LOCATION 801

DISTANCE FROM SHOT (KM) = -12.757

TSCALE (CM/SEC) = 10.0



131



SAUDI ARABIAN REFRACTION PROFILE

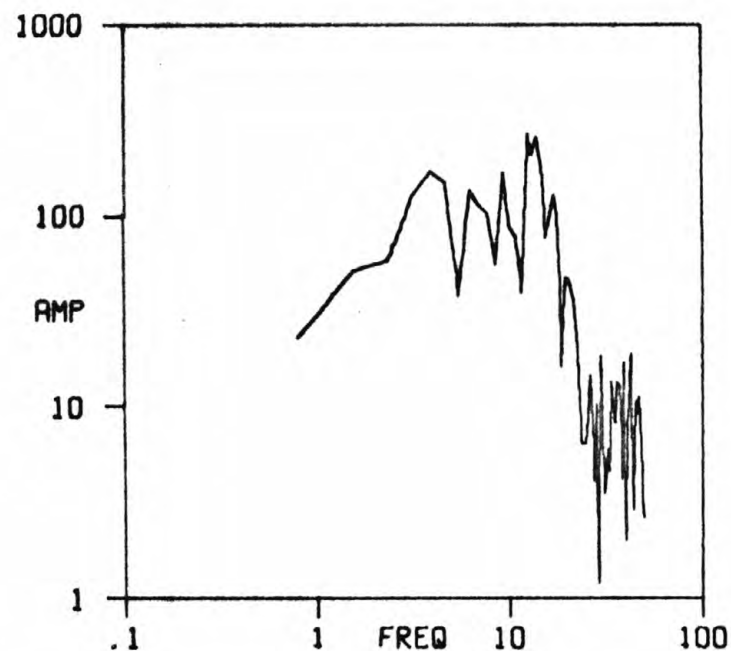
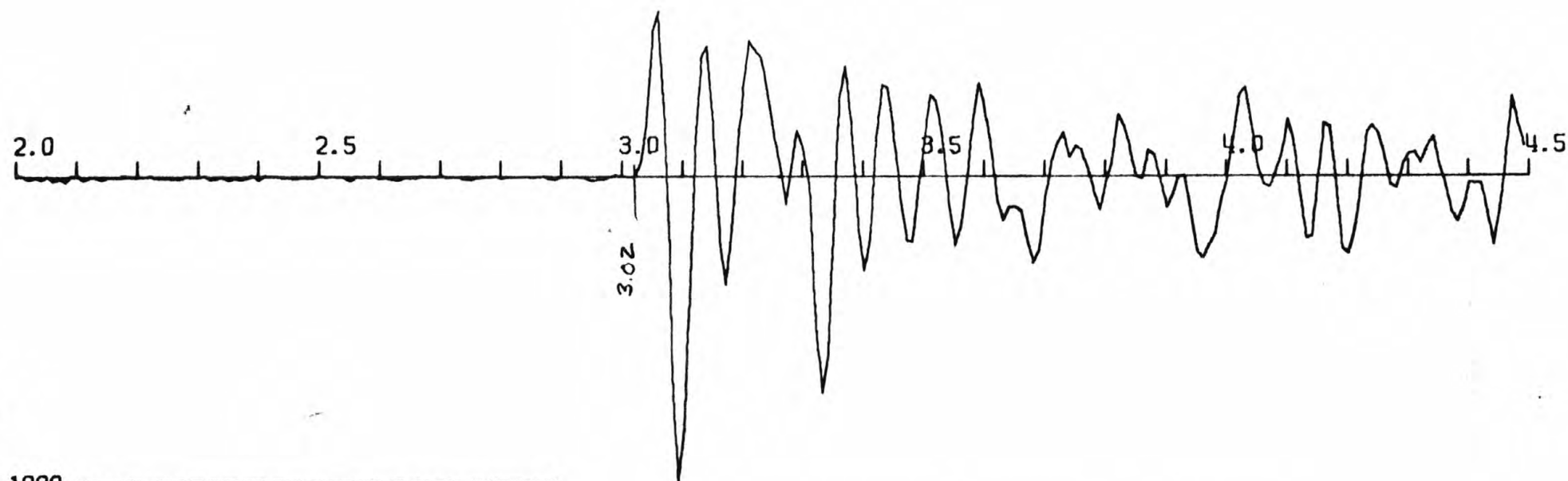
SHOT POINT 5

RECORDER LOCATION 802

DISTANCE FROM SHOT (KM) = -14.869

TSCALE (CM/SEC) = 10.0

732



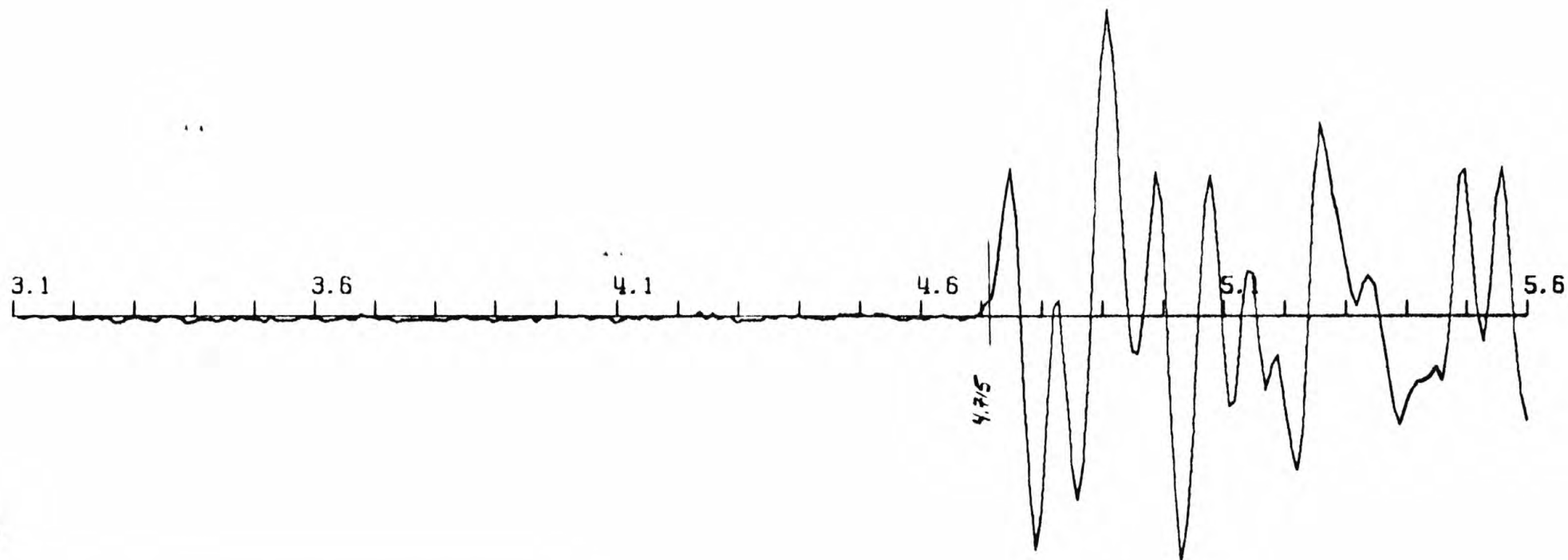
SAUDI ARABIAN REFRACTION PROFILE

SHOT POINT 5

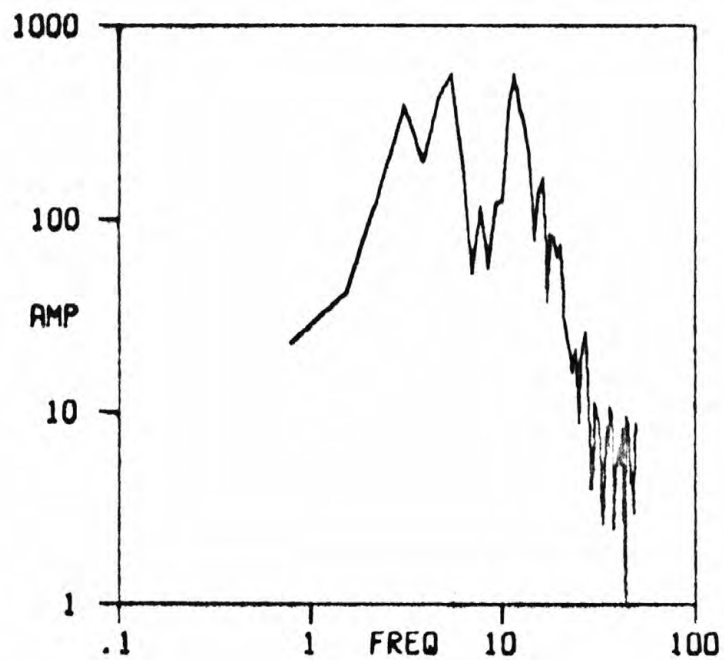
RECORDER LOCATION 803

DISTANCE FROM SHOT (KM) = -17.483

TSCALE (CM/SEC) = 10.0



733



SAUDI ARABIAN REFRACTION PROFILE

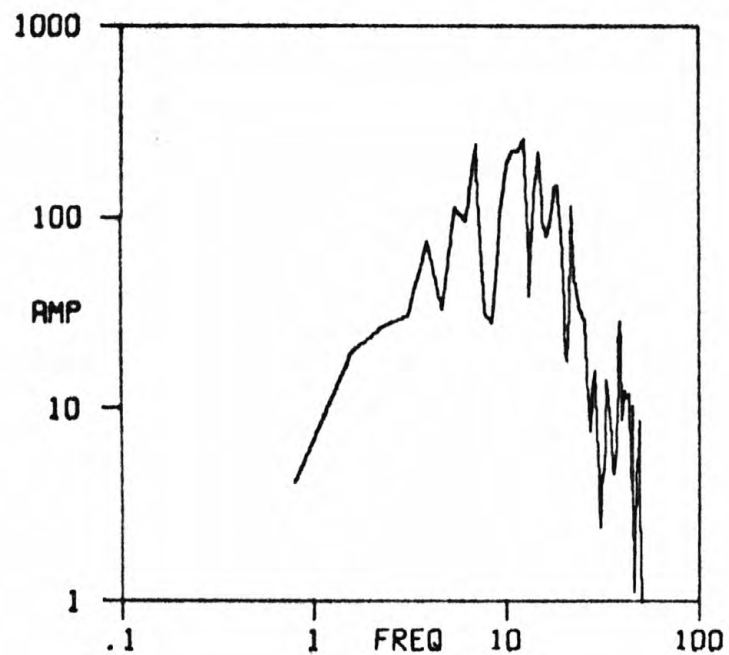
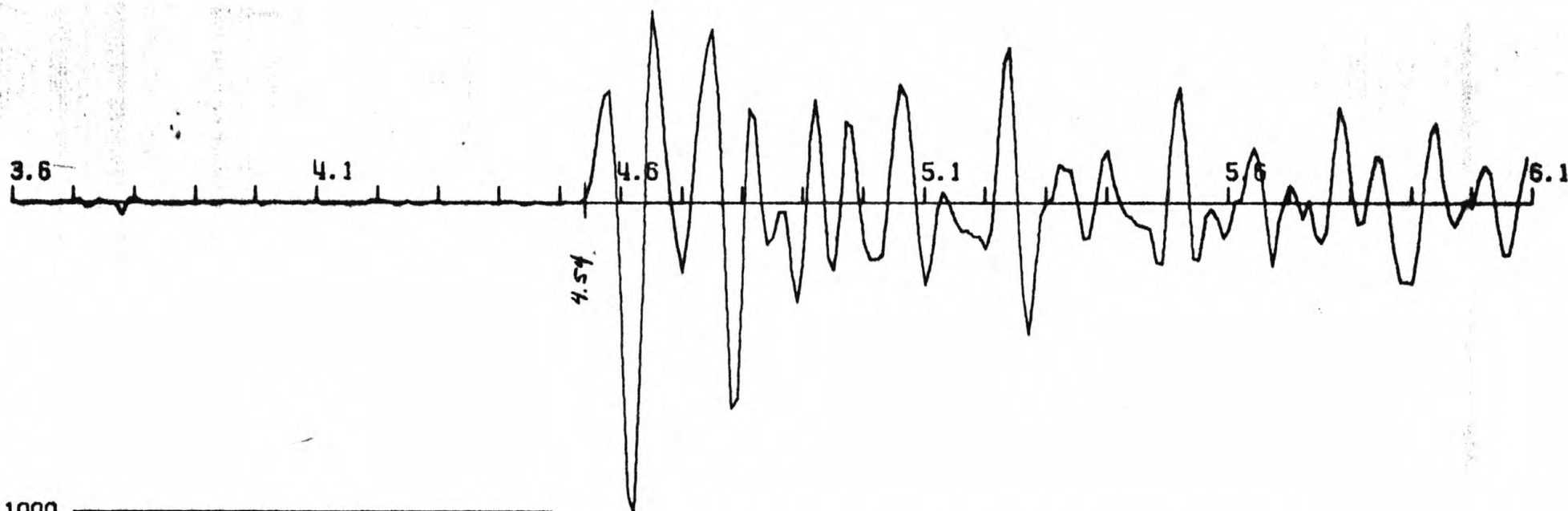
SHOT POINT 5

RECORDER LOCATION 805

DISTANCE FROM SHOT (KM) = -24.060

TSCALE (CM/SEC) = 10.0

734



SAUDI ARABIAN REFRACTION PROFILE

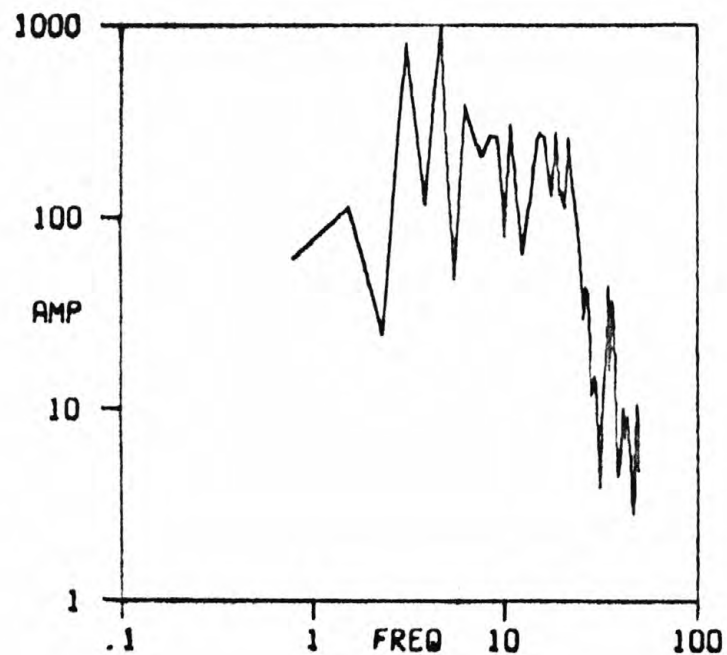
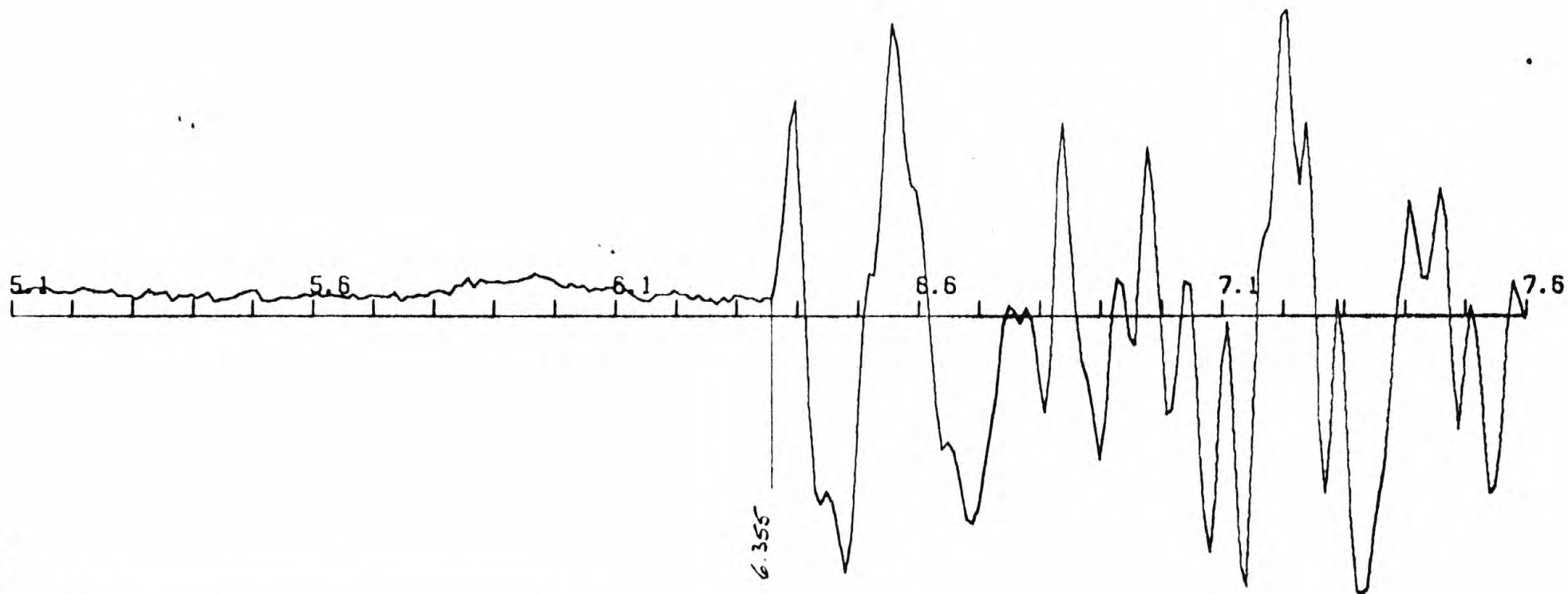
SHOT POINT 5

RECORDER LOCATION 807

DISTANCE FROM SHOT (KM) = -27.503

TSCALE (CM/SEC) = 10.0

735



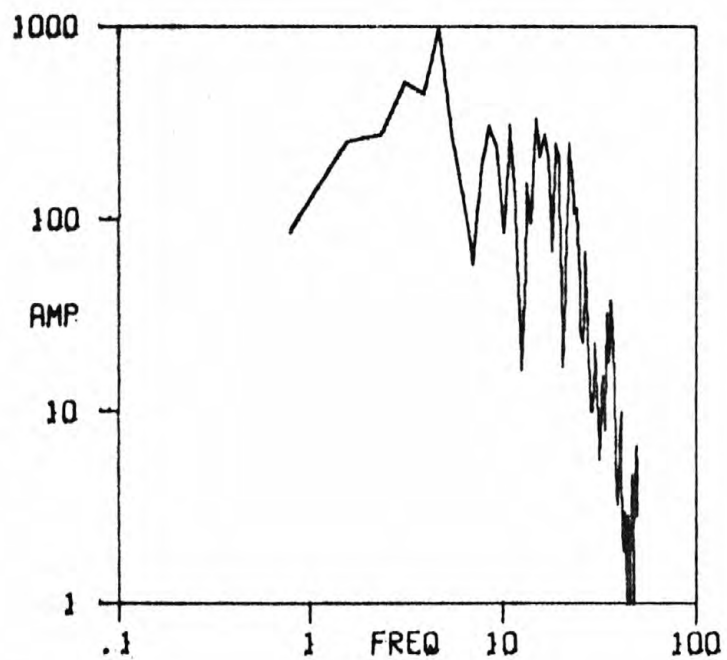
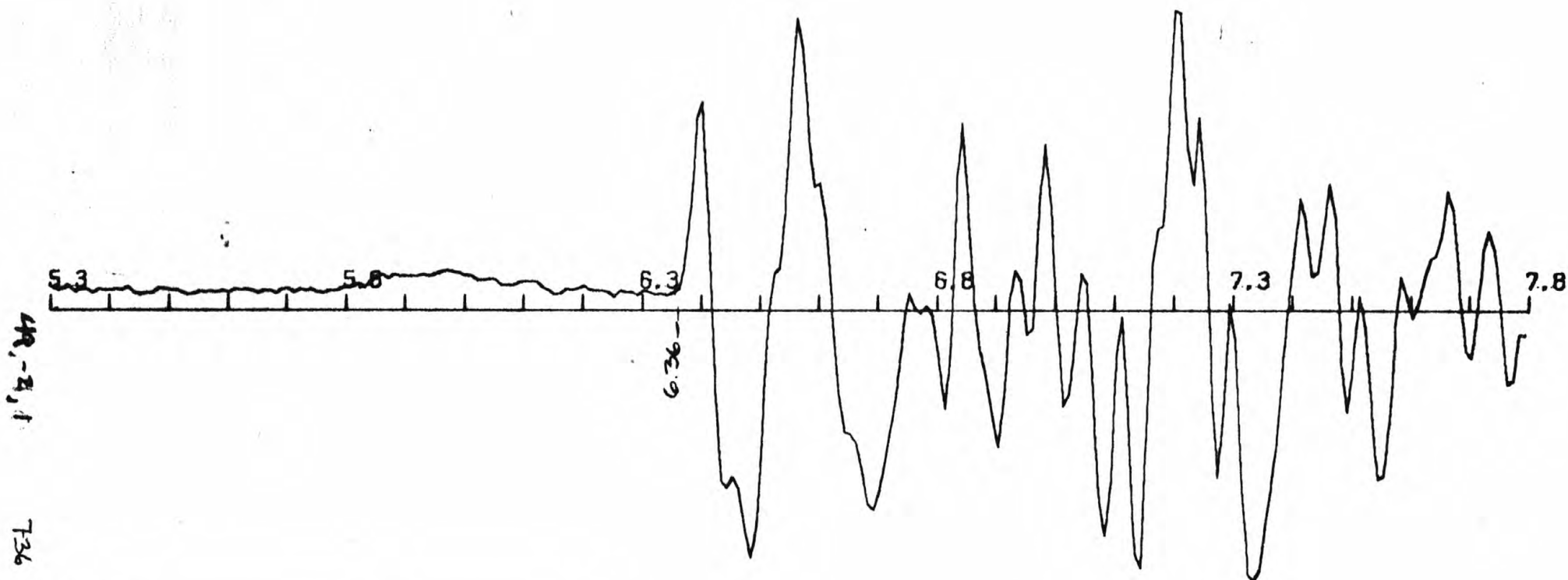
SAUDI ARABIAN REFRACTION PROFILE

SHOT POINT 5

RECORDER LOCATION 808

DISTANCE FROM SHOT (KM) = -30.240

TSCALE (CM/SEC) = 10.0



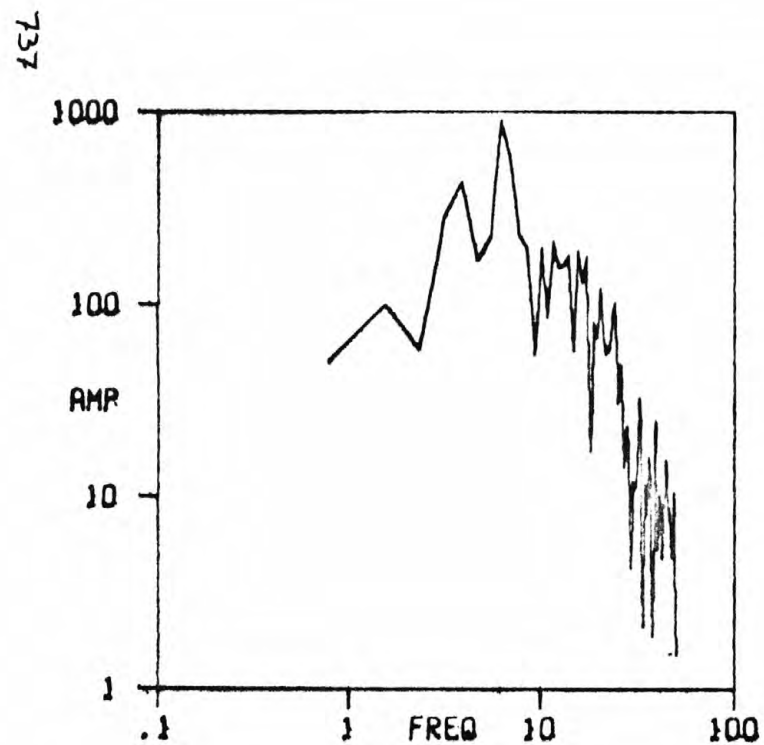
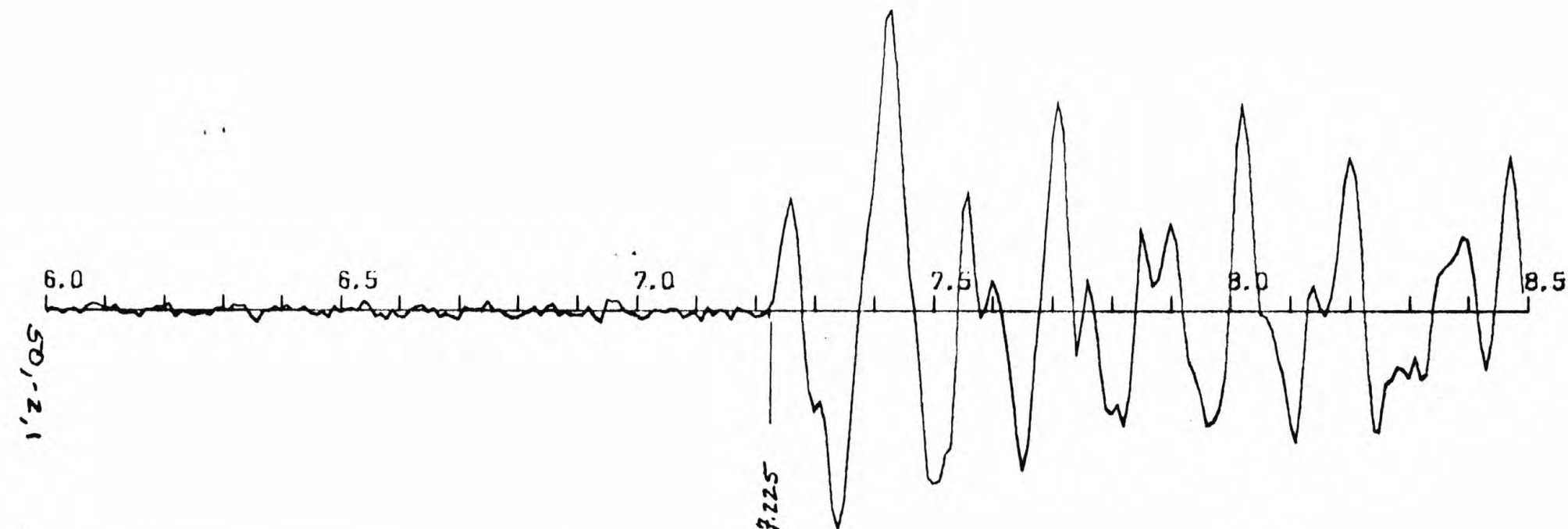
SAUDI ARABIAN REFRACTION PROFILE

SHOT POINT. 5

RECORDER LOCATION 810

DISTANCE FROM SHOT. (KM). = -37.293

TSCALE (CM/SEC). = 10.0



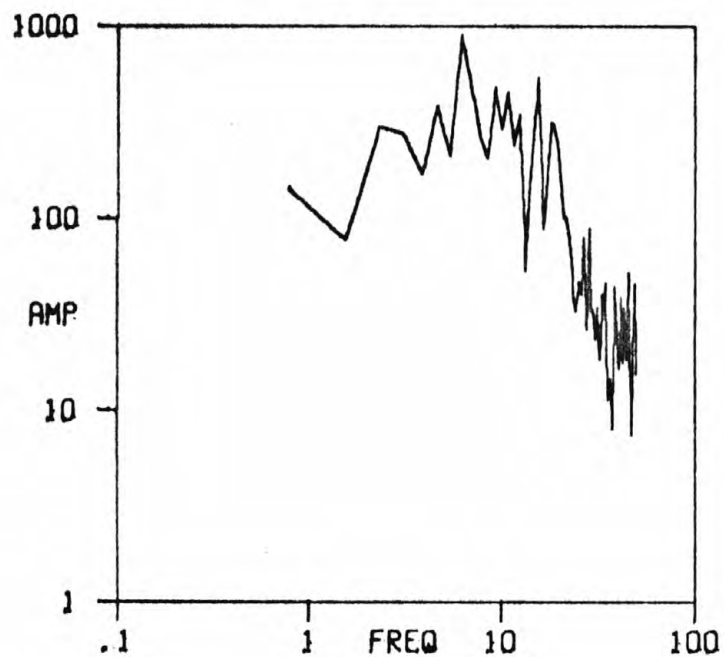
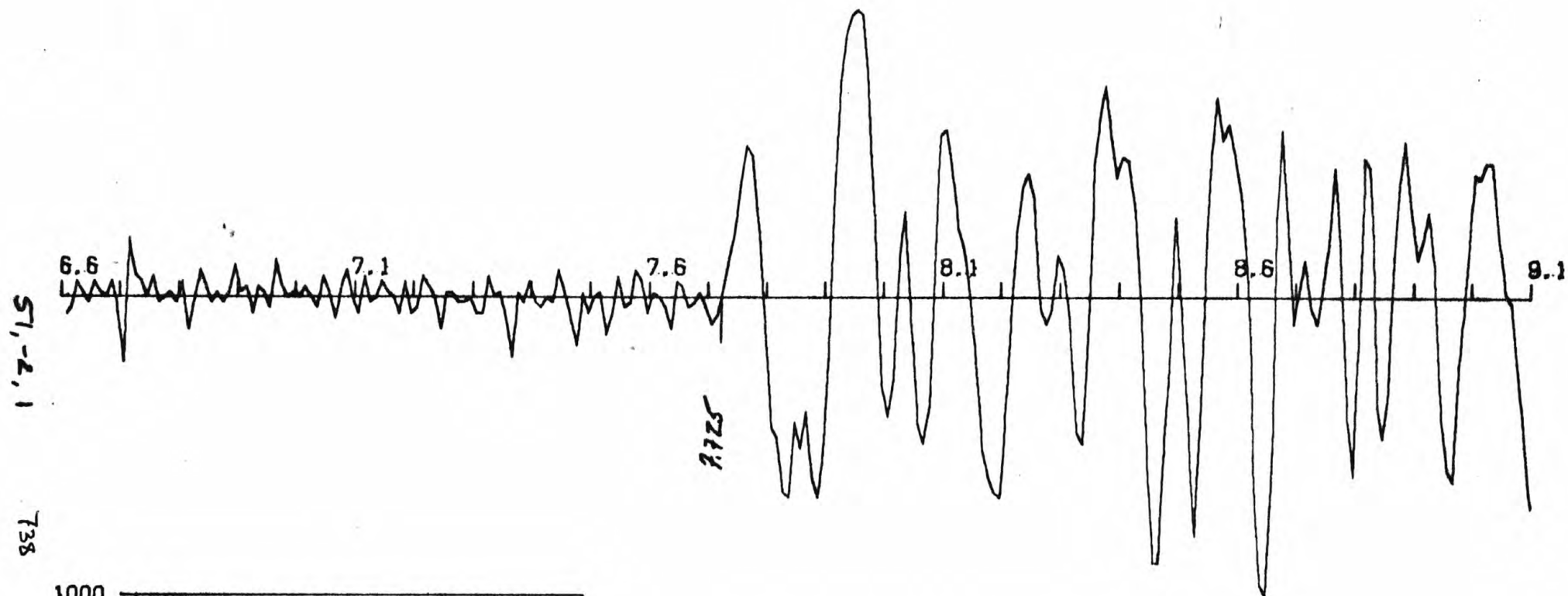
SAUDI ARABIAN REFRACTION PROFILE

SHOT POINT 5

RECORDER LOCATION 811

DISTANCE FROM SHOT (KM). = -41.708

TSCALE (CM/SEC). = 10.0



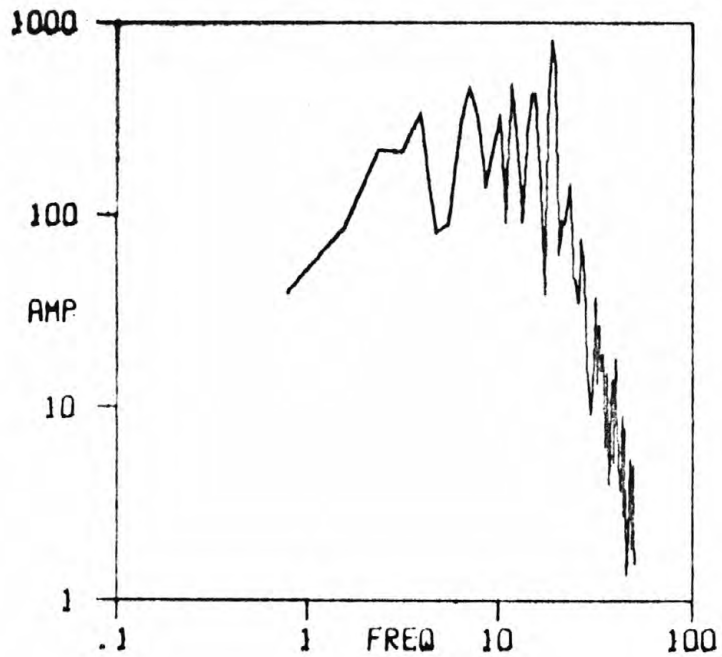
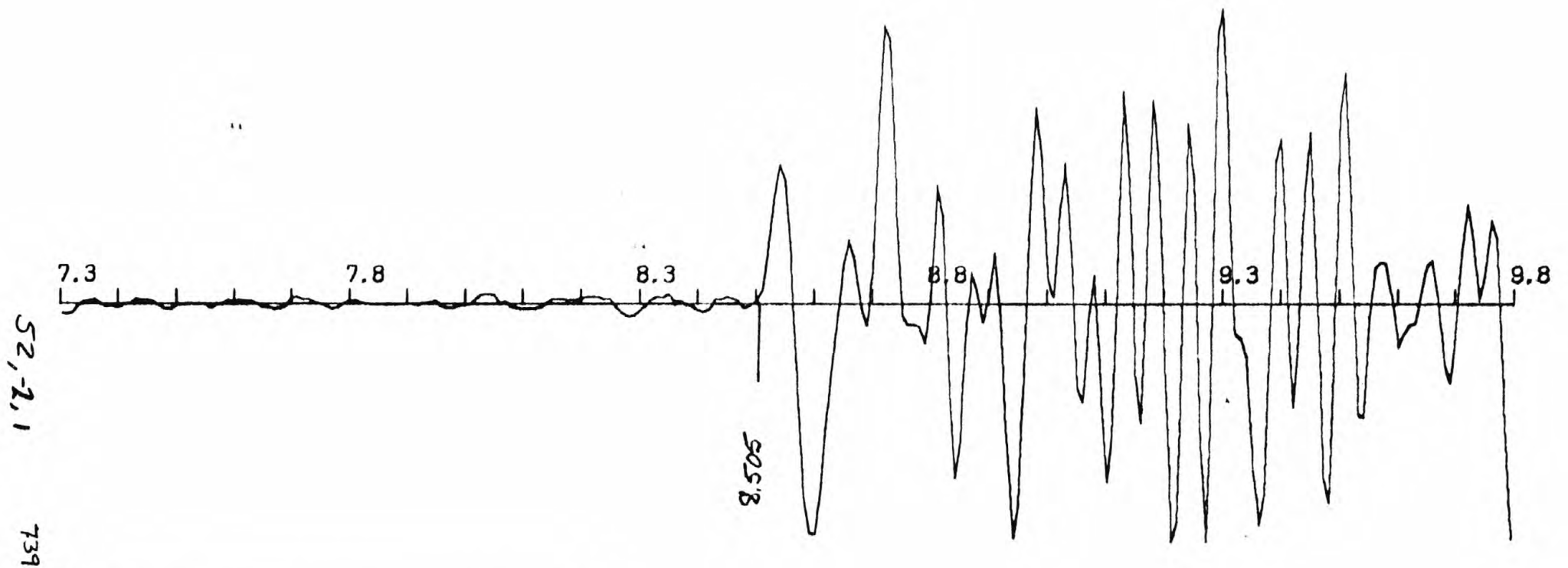
SAUDI ARABIAN REFRACTION PROFILE

SHOT POINT 5

RECORDER LOCATION 812

DISTANCE FROM SHOT (KM). = -45.174

TSCALE (CM/SEC). = 10.0



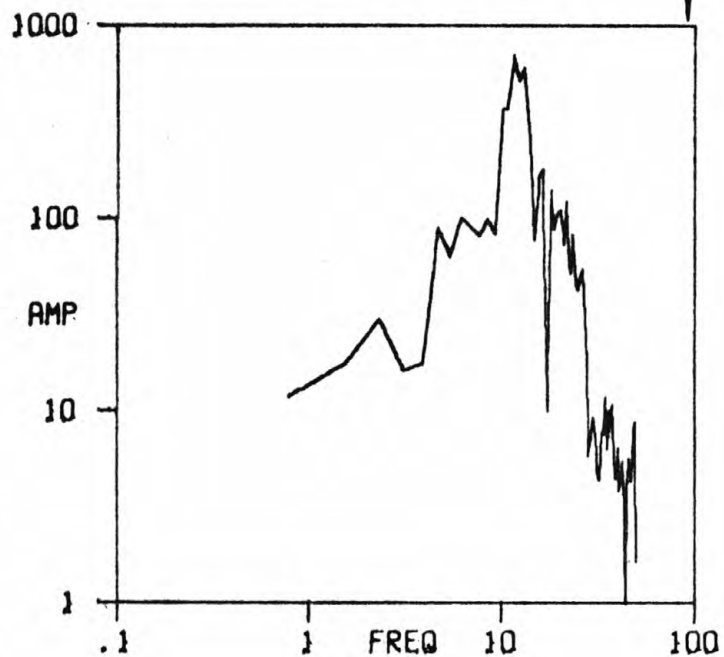
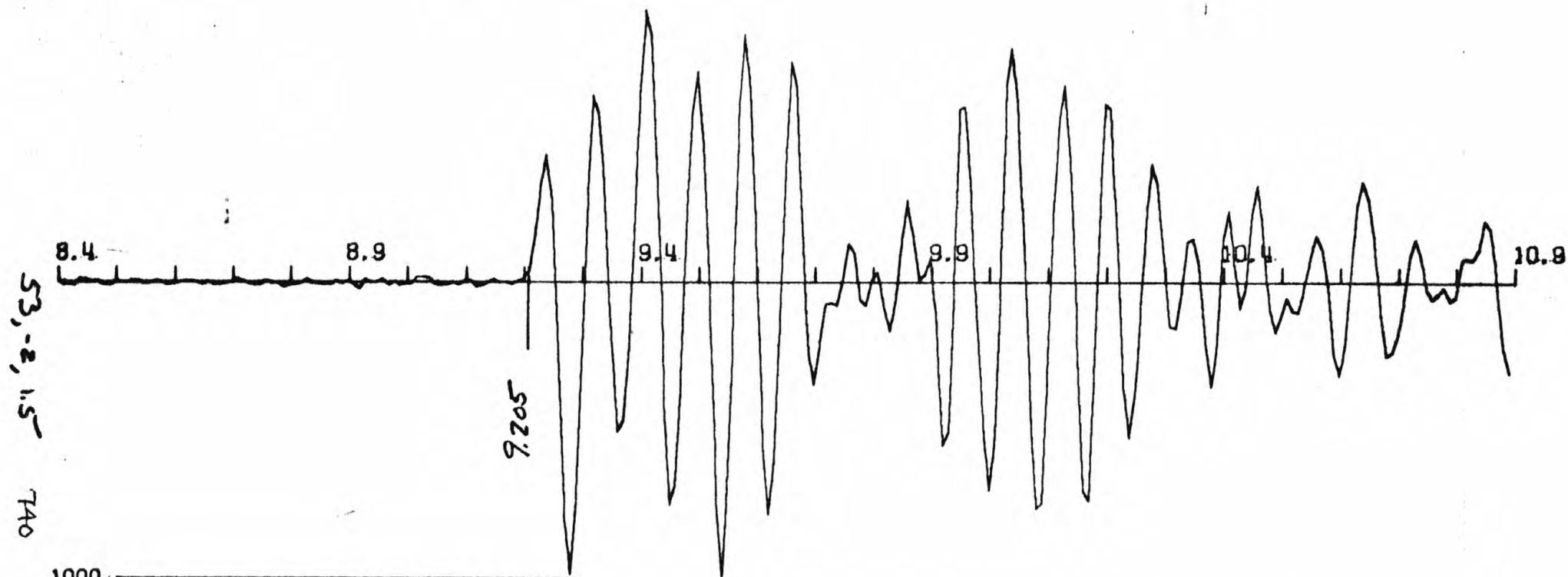
SAUDI ARABIAN REFRACTION PROFILE

SHOT POINT 5

RECORDER LOCATION 813

DISTANCE FROM SHOT (KM). = -49.340

TSCALE (CM/SEC). = 10.0



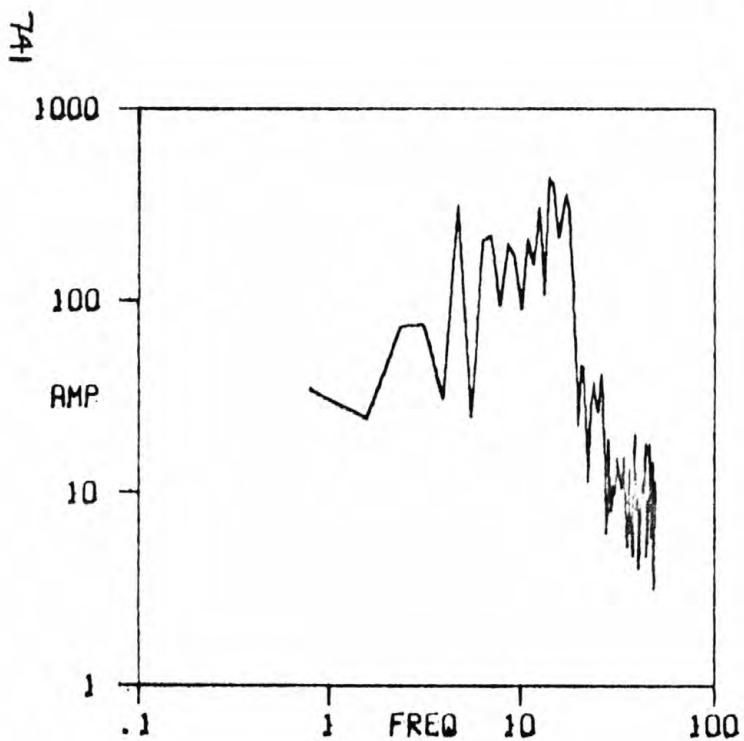
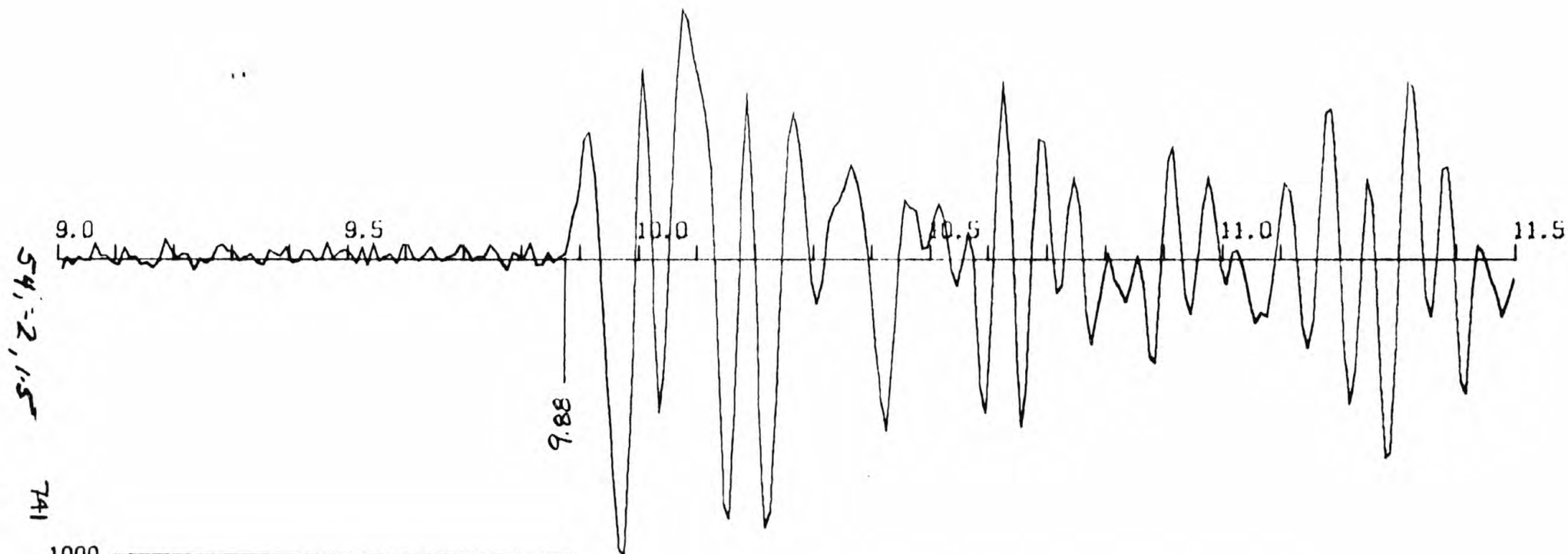
SAUDI ARABIAN REFRACTION PROFILE

SHOT. POINT. 5

RECORDER. LOCATION 888

DISTANCE FROM. SHOT. (KM). ≈ -52.862

TSCALE (CM/SEC). ≈ 10.0



SAUDI ARABIAN REFRACTION PROFILE

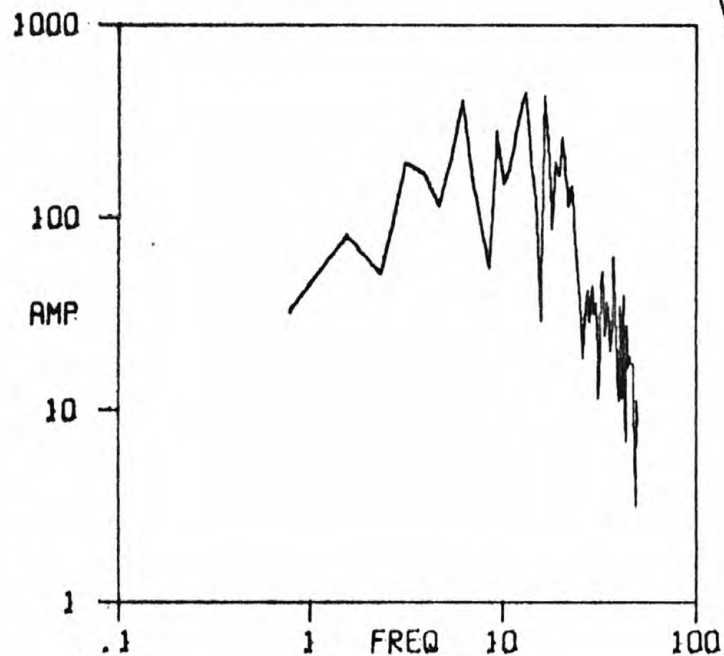
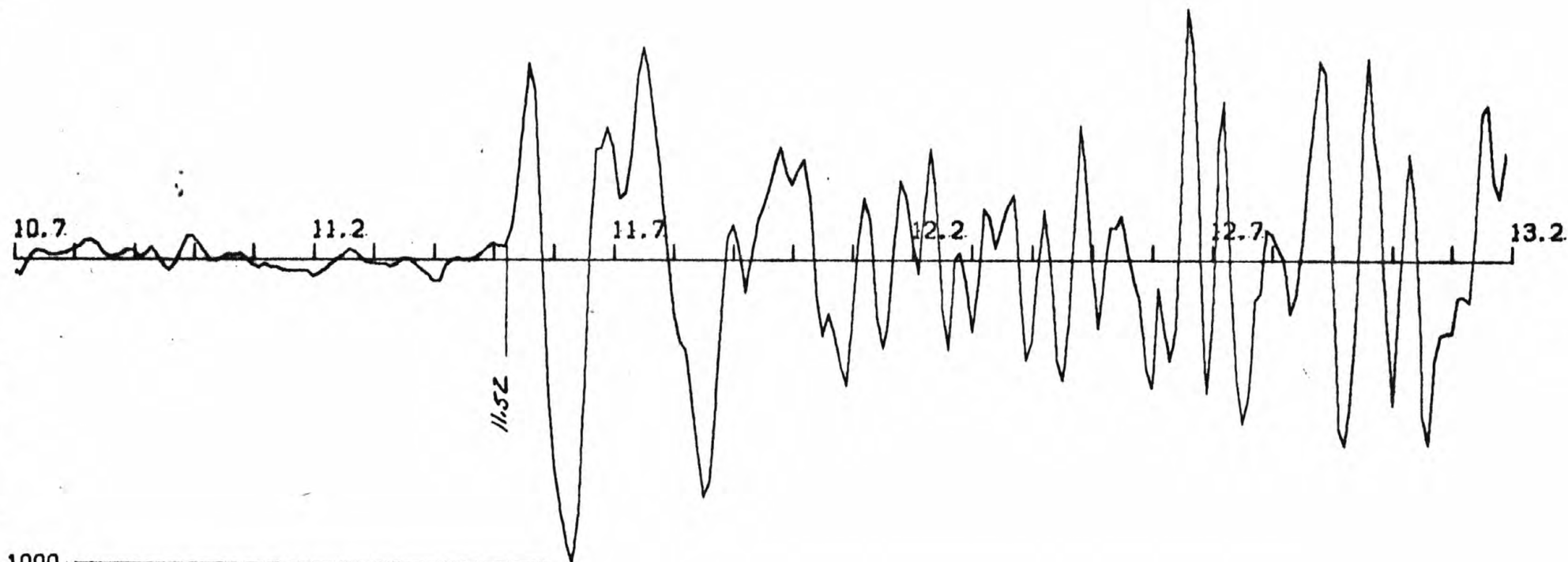
SHOT POINT 5

RECORDER LOCATION 889

DISTANCE FROM SHOT (KM). = -56.690

TSCALE (CM/SEC). = 10.0

55, -2, 1.5 742



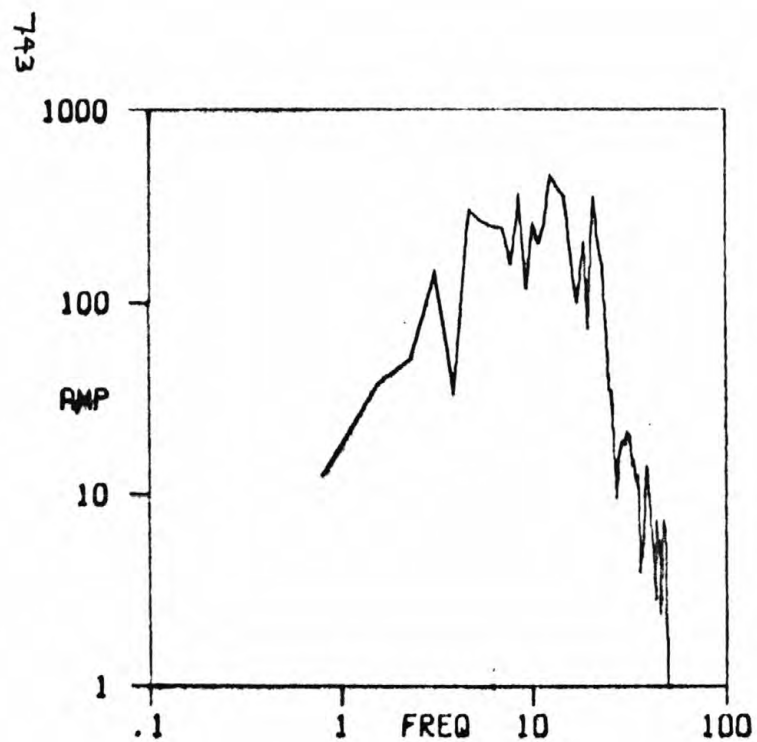
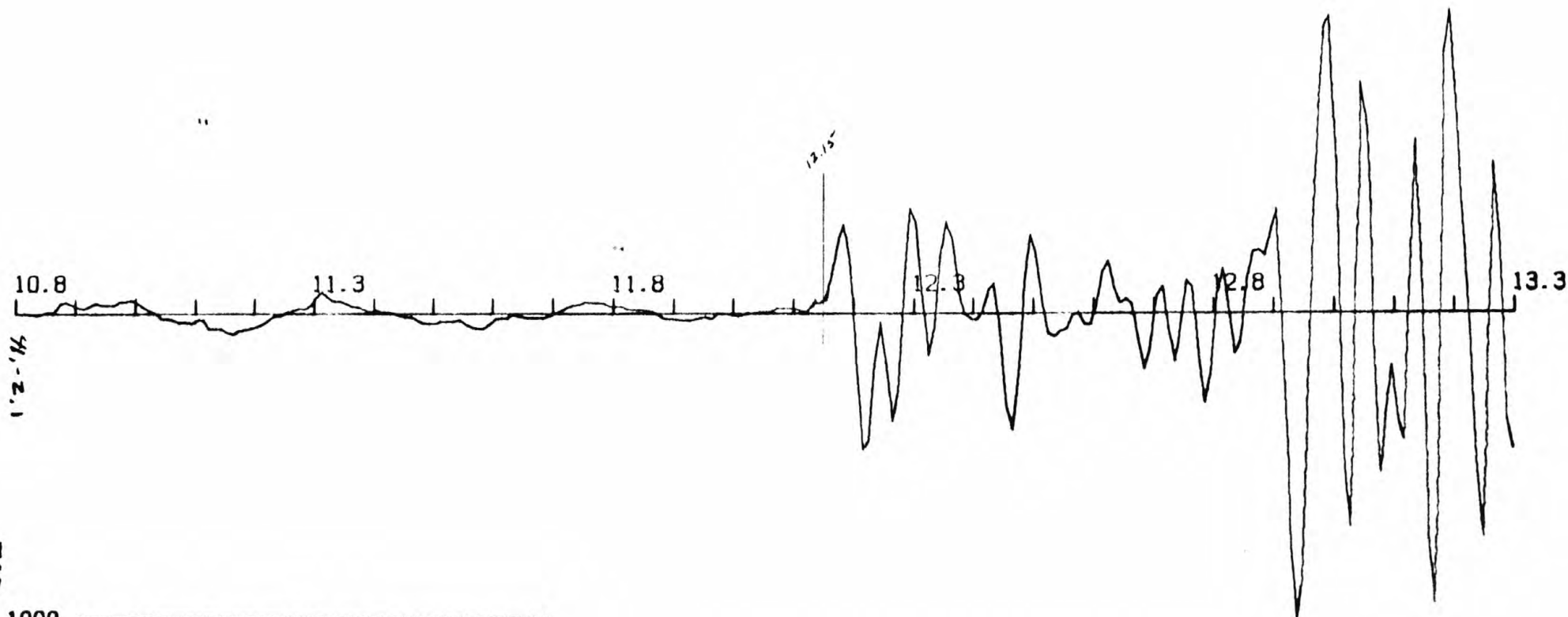
SAUDI ARABIAN REFRACTION PROFILE

SHOT. POINT. 5

RECORDER. LOCATION 892.

DISTANCE FROM. SHOT. (KM). = -66.729

TSCALE (CM/SEC). = 10.0



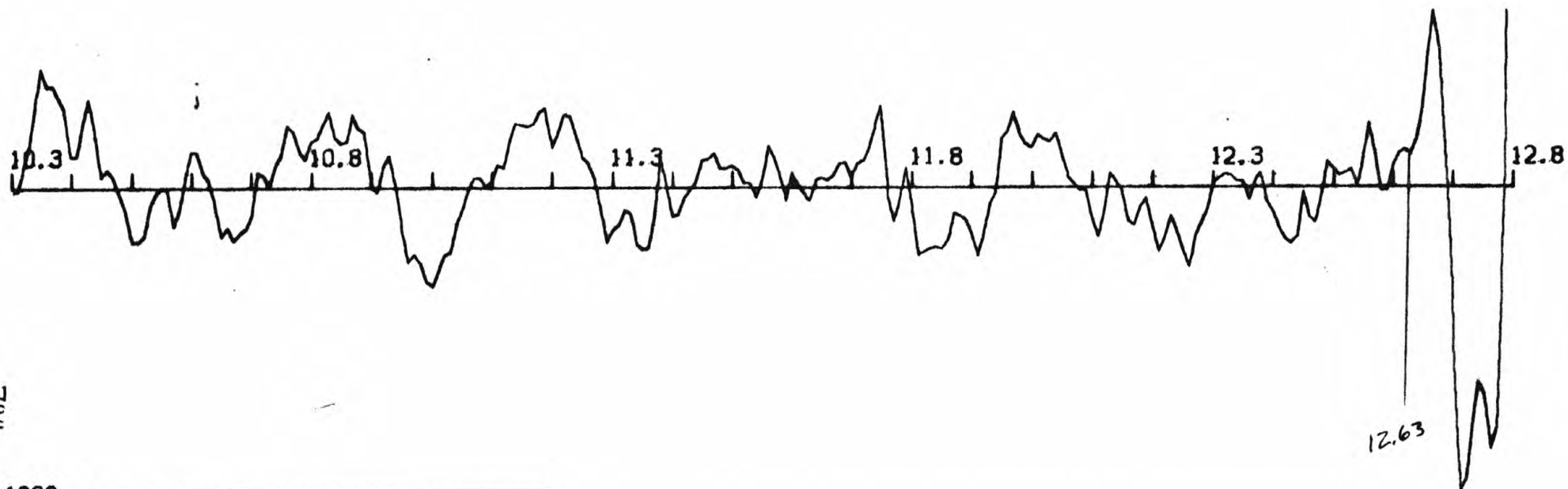
SAUDI ARABIAN REFRACTION PROFILE

SHOT POINT 5

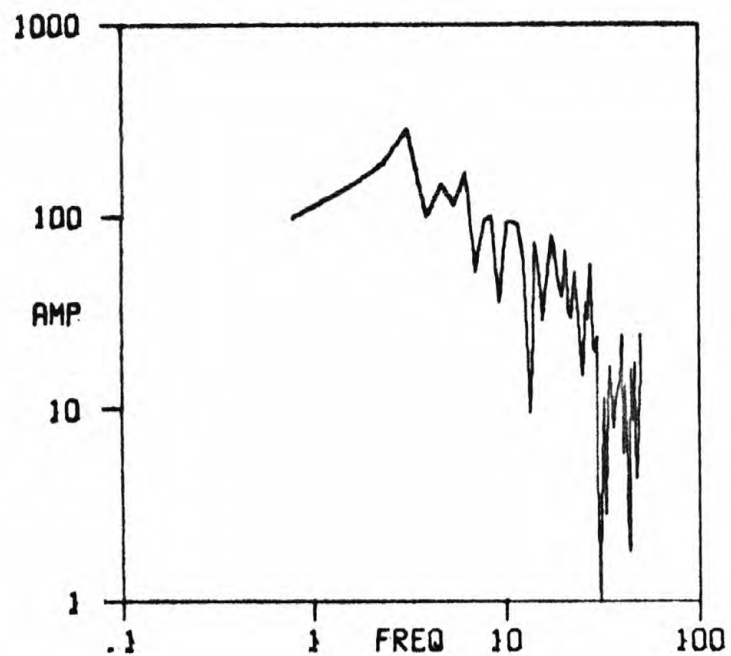
RECORDER LOCATION 894

DISTANCE FROM SHOT (KM) = -70.541

TSCALE (CM/SEC) = 10.0



744



SAUDI ARABIAN REFRACTION PROFILE 30LP-DM

SHOT POINT 5

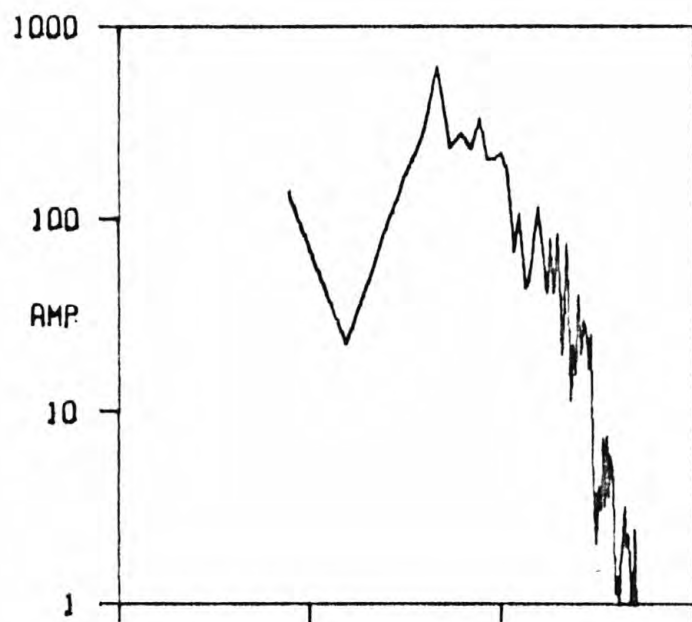
RECORDER LOCATION 895

DISTANCE FROM SHOT (KM) = -73.756

TSCALE (CM/SEC) = 10.0



745



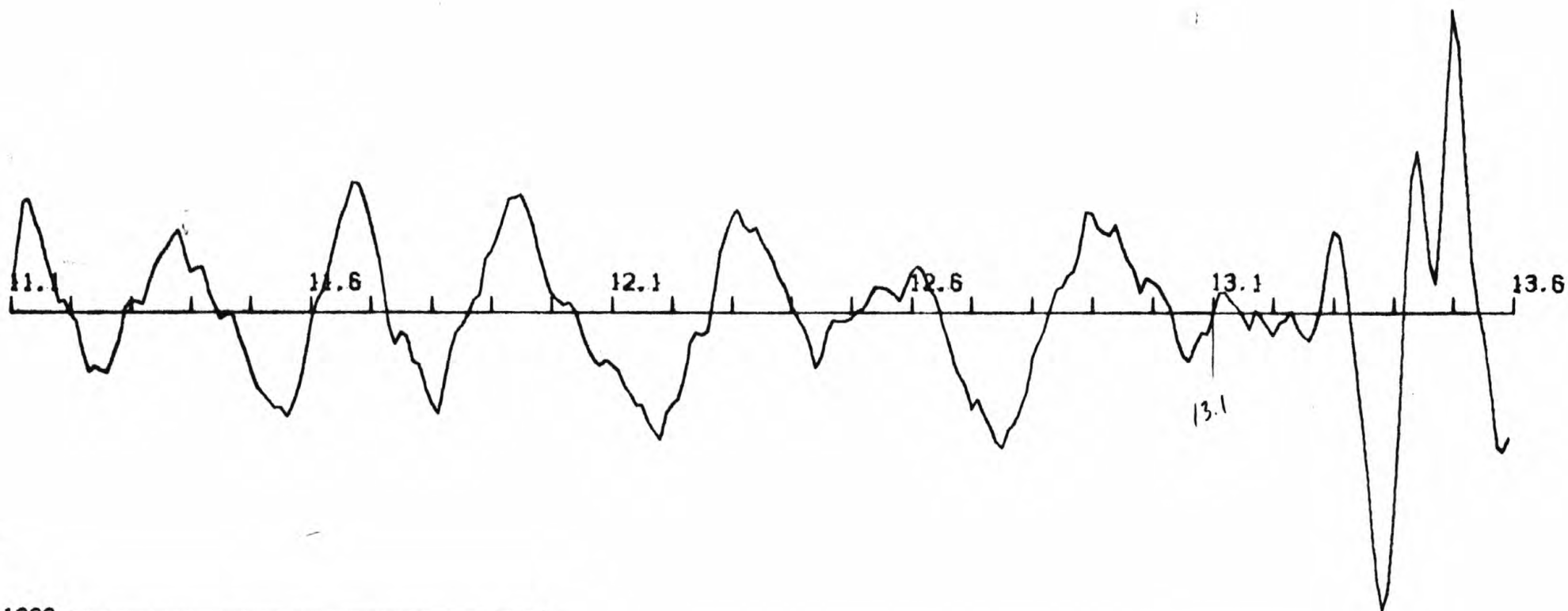
SAUDI ARABIAN REFRACTION PROFILE 30LP-DM

SHOT POINT 5

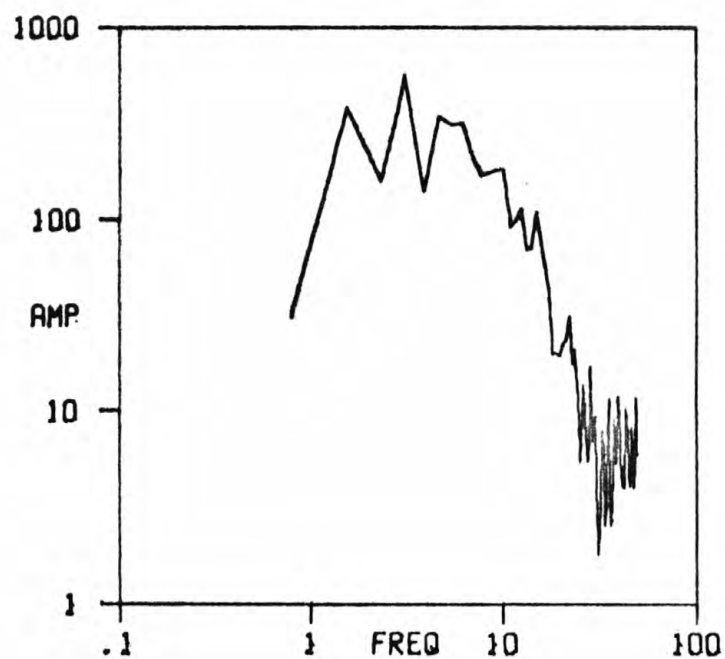
RECORDER LOCATION 896

DISTANCE FROM SHOT (KM) = -75.053

TSCALE (CM/SEC) = 10.0



747



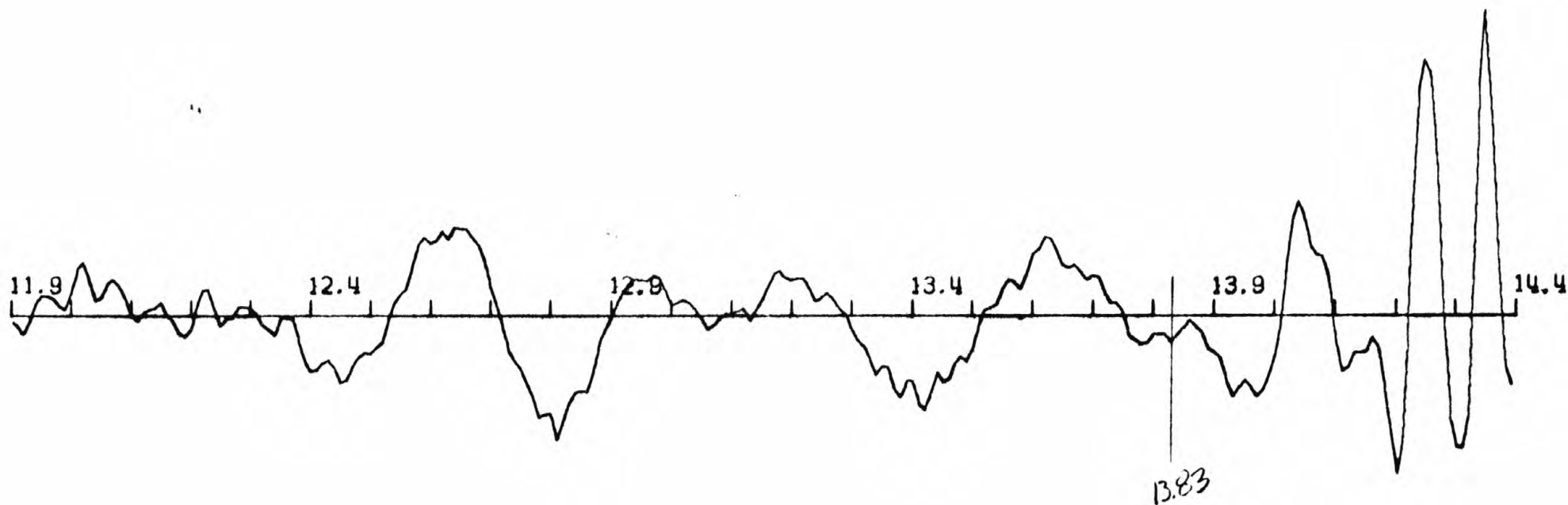
SAUDI ARABIAN REFRACTION PROFILE 30LP-DM

SHOT POINT 5

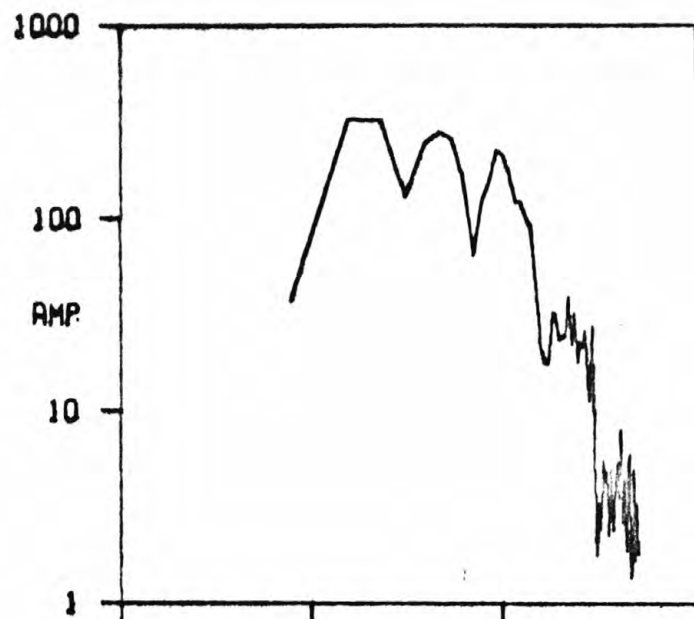
RECORDER LOCATION 897

DISTANCE FROM SHOT (KM) = -78.316

TSCALE (CM/SEC) = 10.0



242



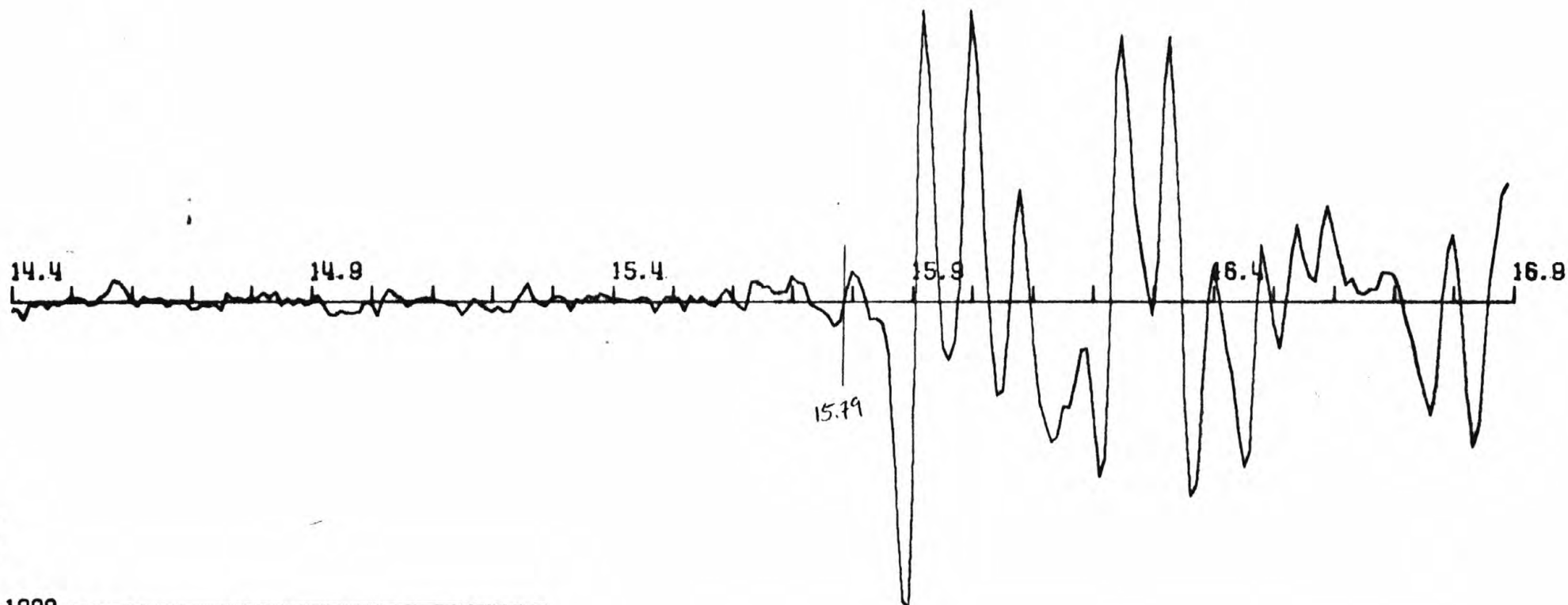
SAUDI ARABIAN REFRACTION PROFILE 30LP-DM

SHOT POINT 5

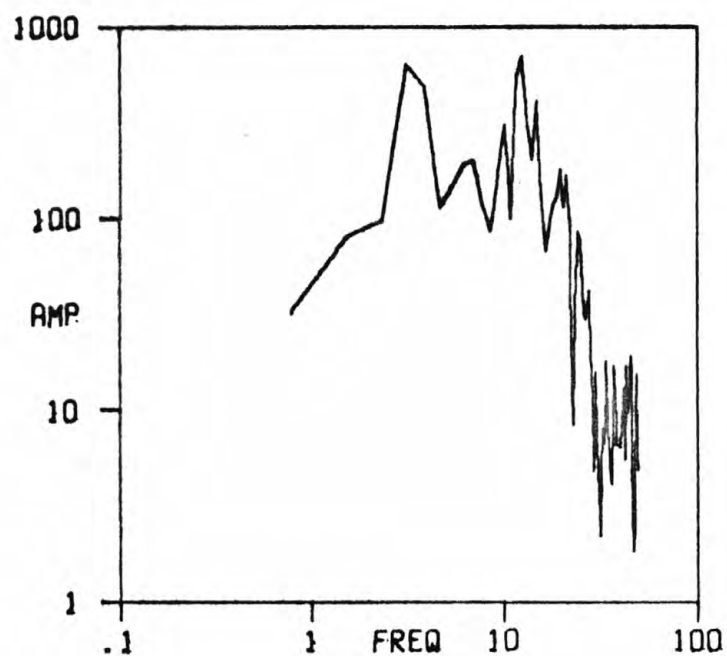
RECORDER LOCATION 898

DISTANCE FROM SHOT (KM) = -82.883

TSCALE (CM/SEC) = 10.0



874



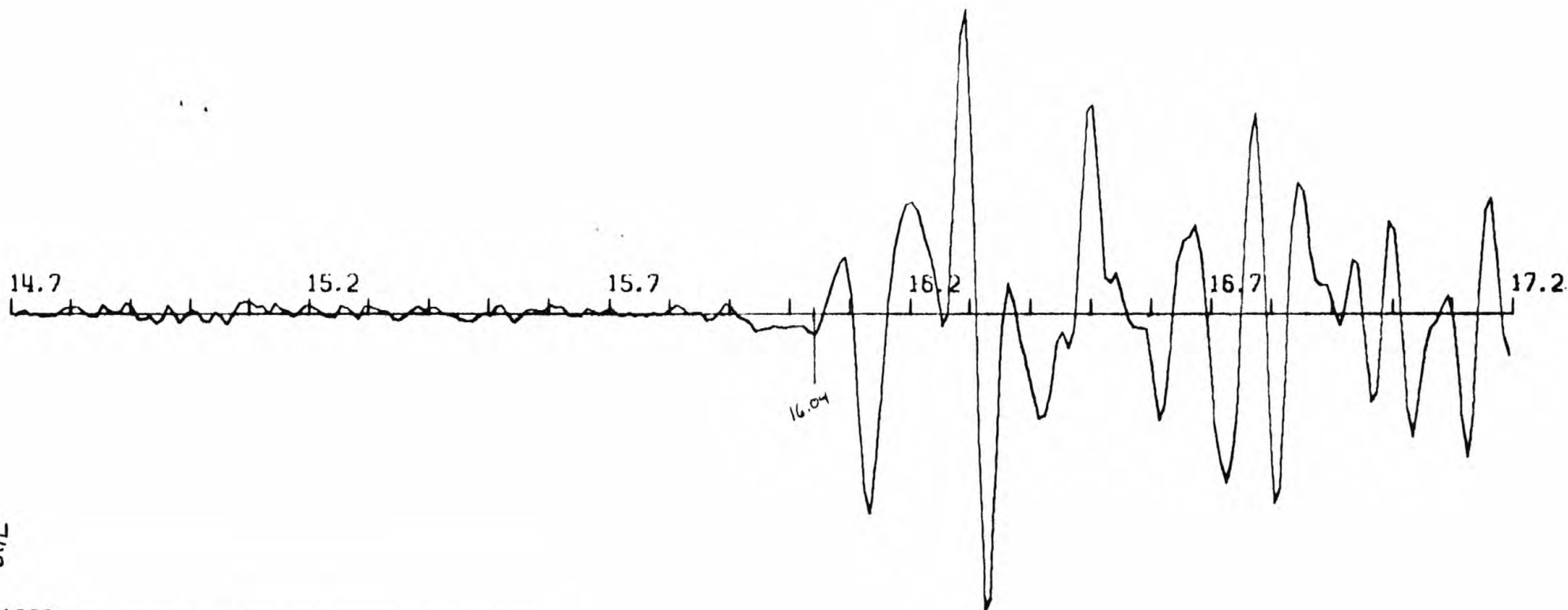
SAUDI ARABIAN REFRACTION PROFILE 30LP-DM

SHOT POINT 5

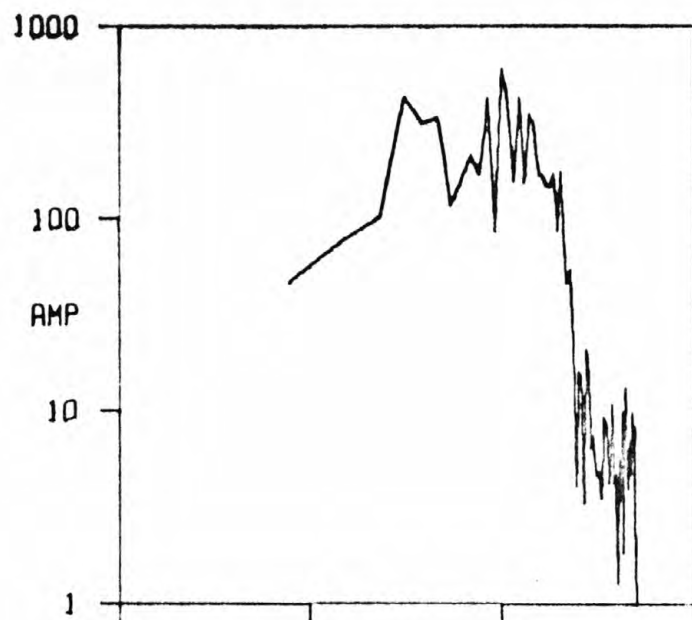
RECORDER LOCATION 905

DISTANCE FROM SHOT (KM) = -98.114

TSCALE (CM/SEC) = 10.0



749



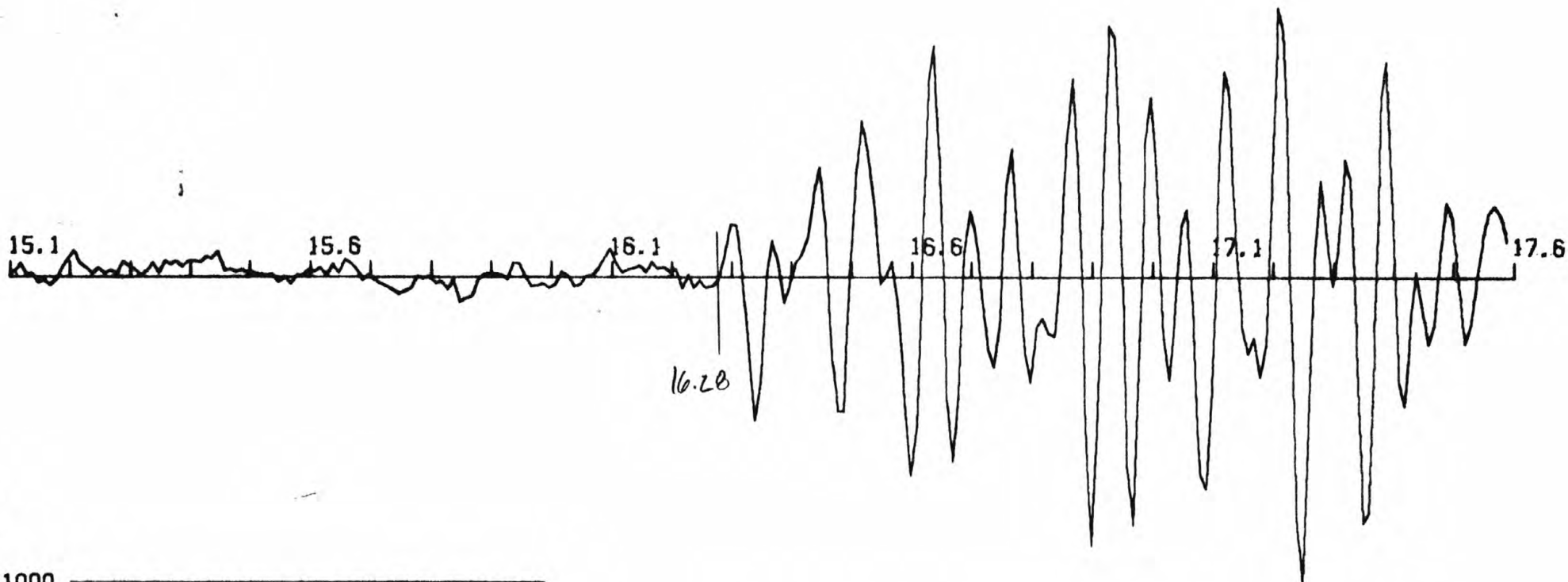
SAUDI ARABIAN REFRACTION PROFILE 30LP-DM.

SHOT POINT. 5

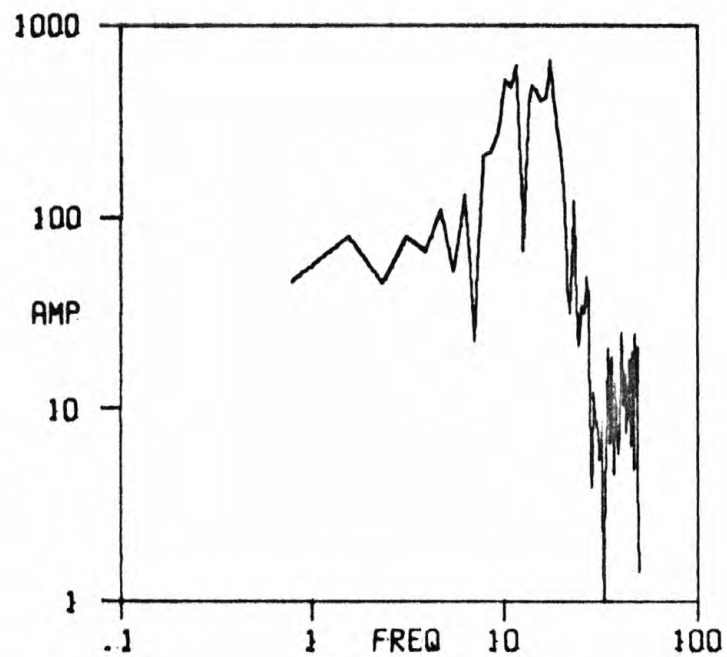
RECORDER LOCATION 906

DISTANCE FROM SHOT (KM). = -99.999

TSCALE (CM/SEC). = 10.0



051



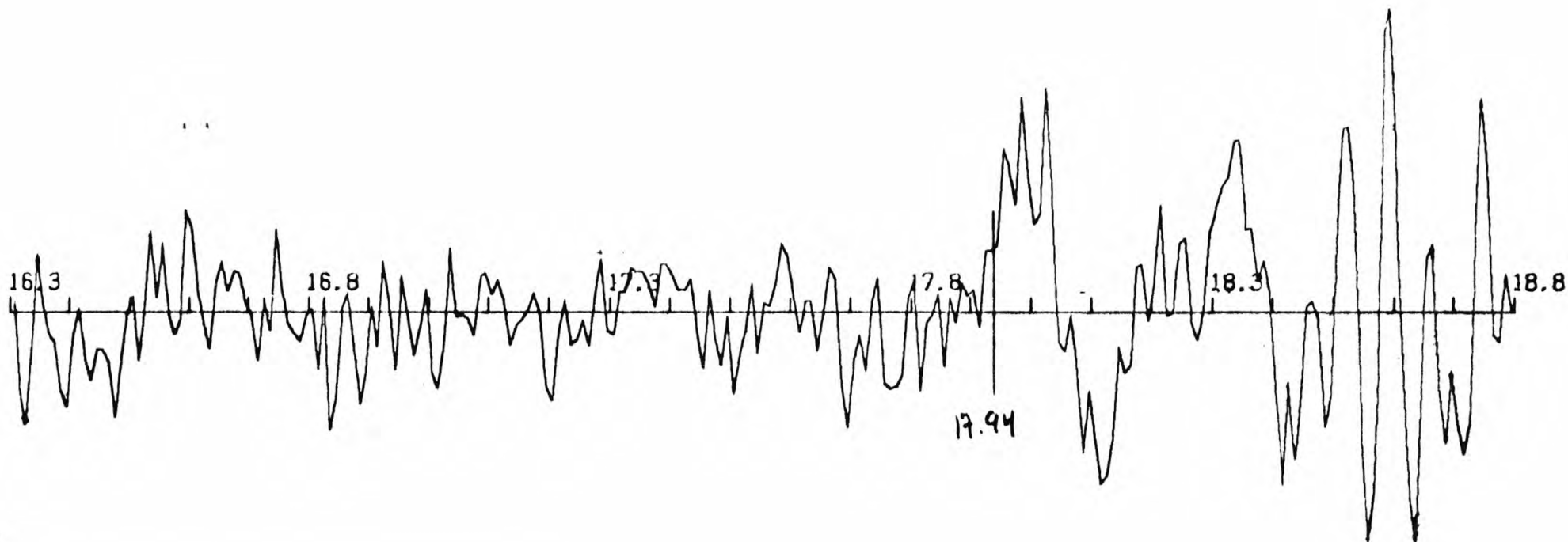
SAUDI ARABIAN REFRACTION PROFILE 30LP-DM

SHOT POINT 5

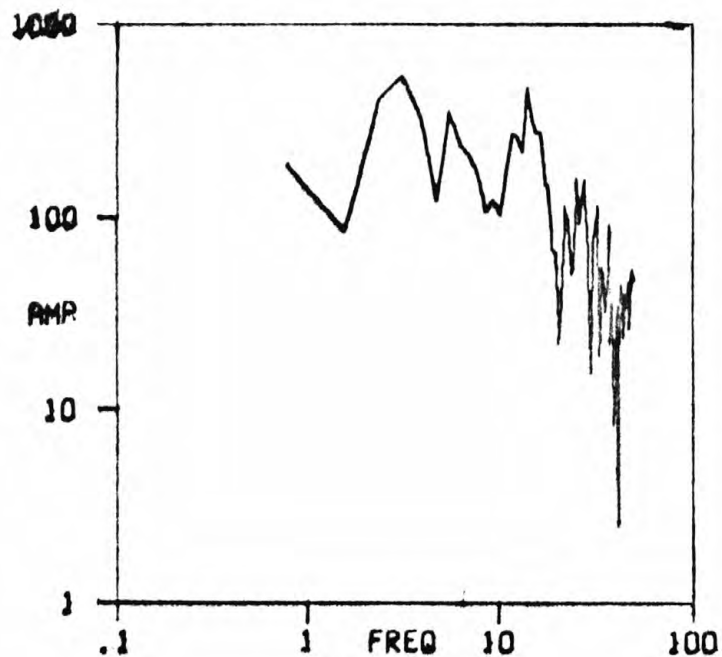
RECORDER LOCATION 907

DISTANCE FROM SHOT (KM) = -102.302

TSCALE (CM/SEC) = 10.0



751



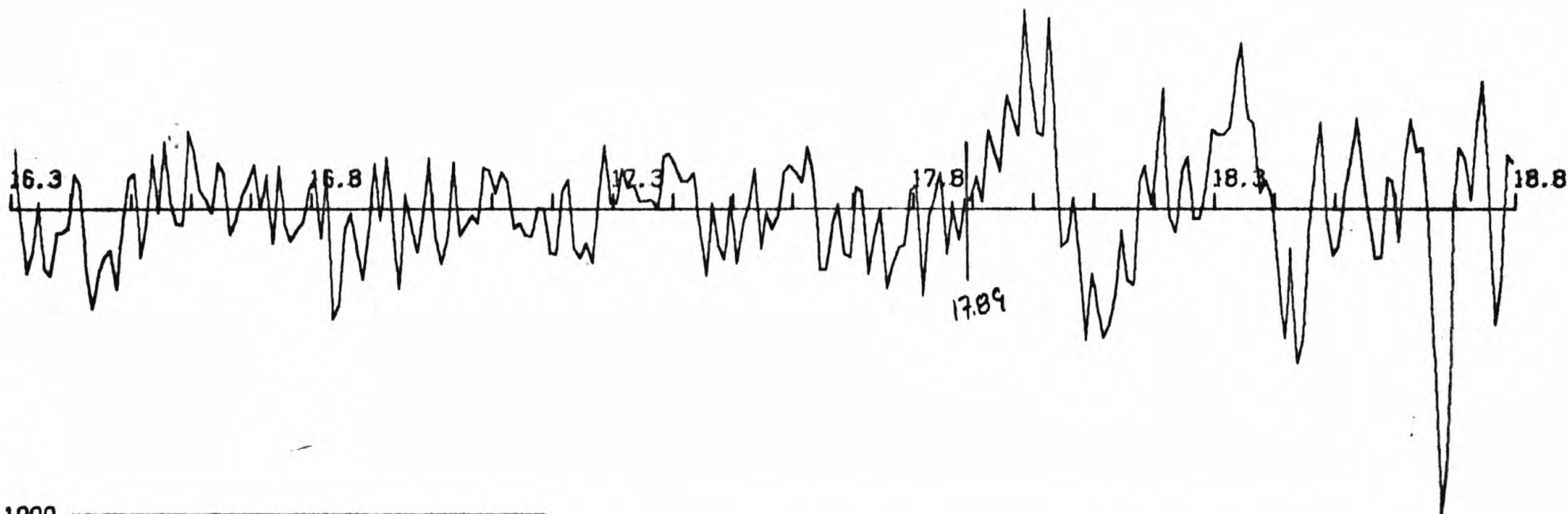
SAUDI ARABIAN REFRACTION PROFILE 10HP-DM

SHOT POINT 5

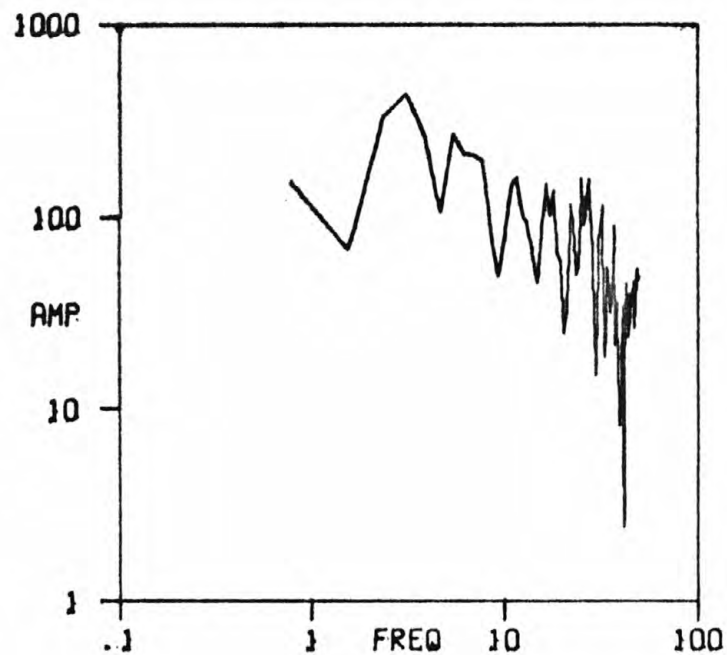
RECORDER LOCATION 808

DISTANCE FROM SHOT (KM) = -115.610

TSCALE (CM/SEC) = 10.0



752



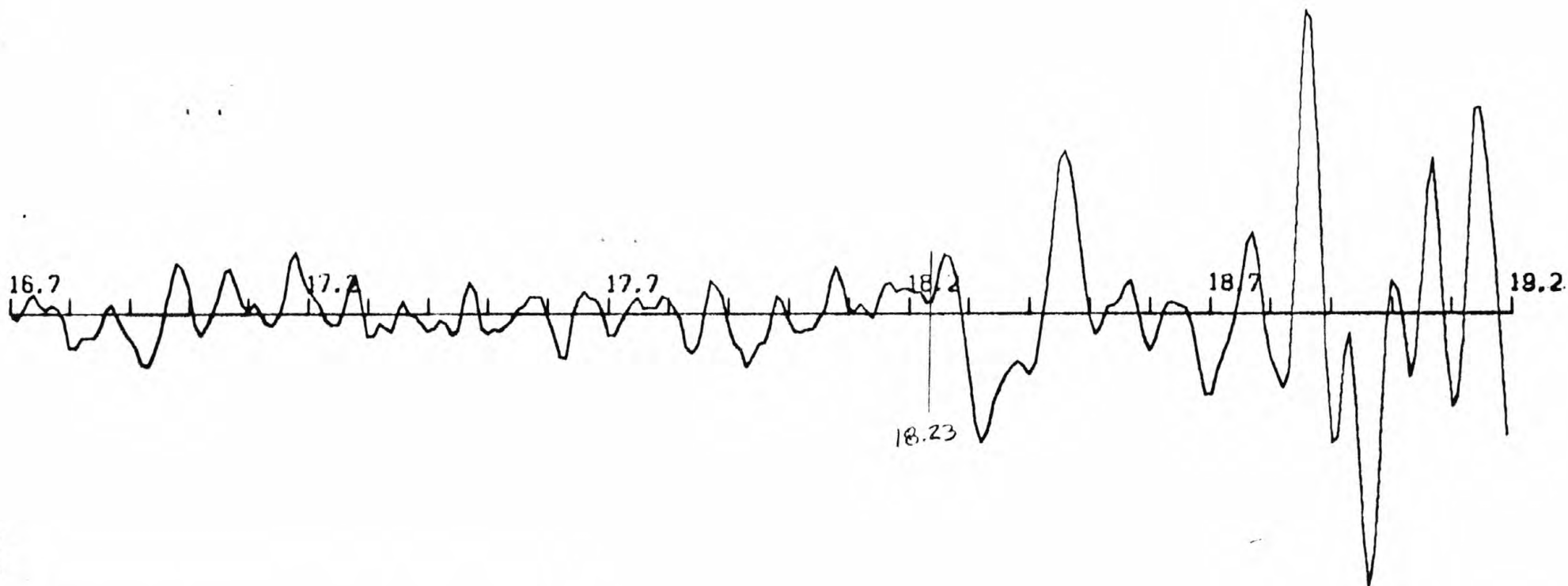
SAUDI ARABIAN REFRACTION PROFILE (15 HP)

SHOT POINT 5

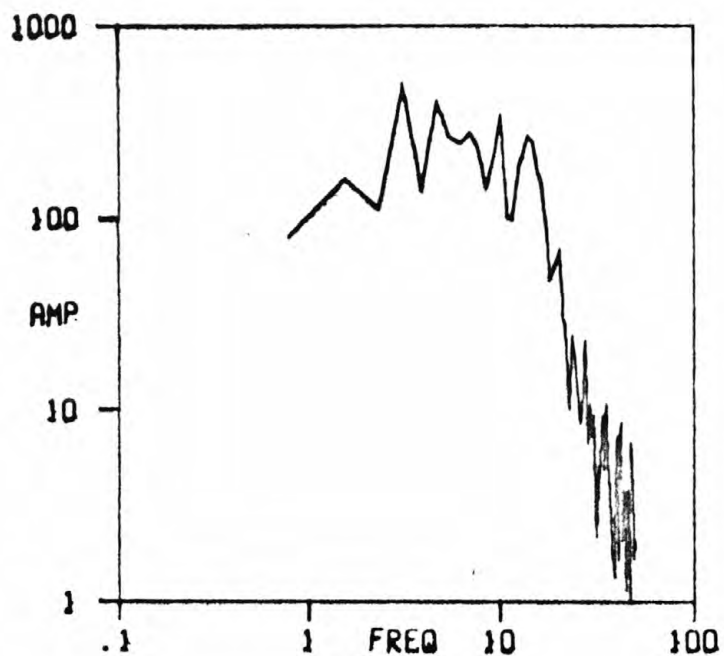
RECORDER LOCATION 908

DISTANCE FROM SHOT (KM) = -115.610

TSCALE (CM/SEC) = 10.0



753



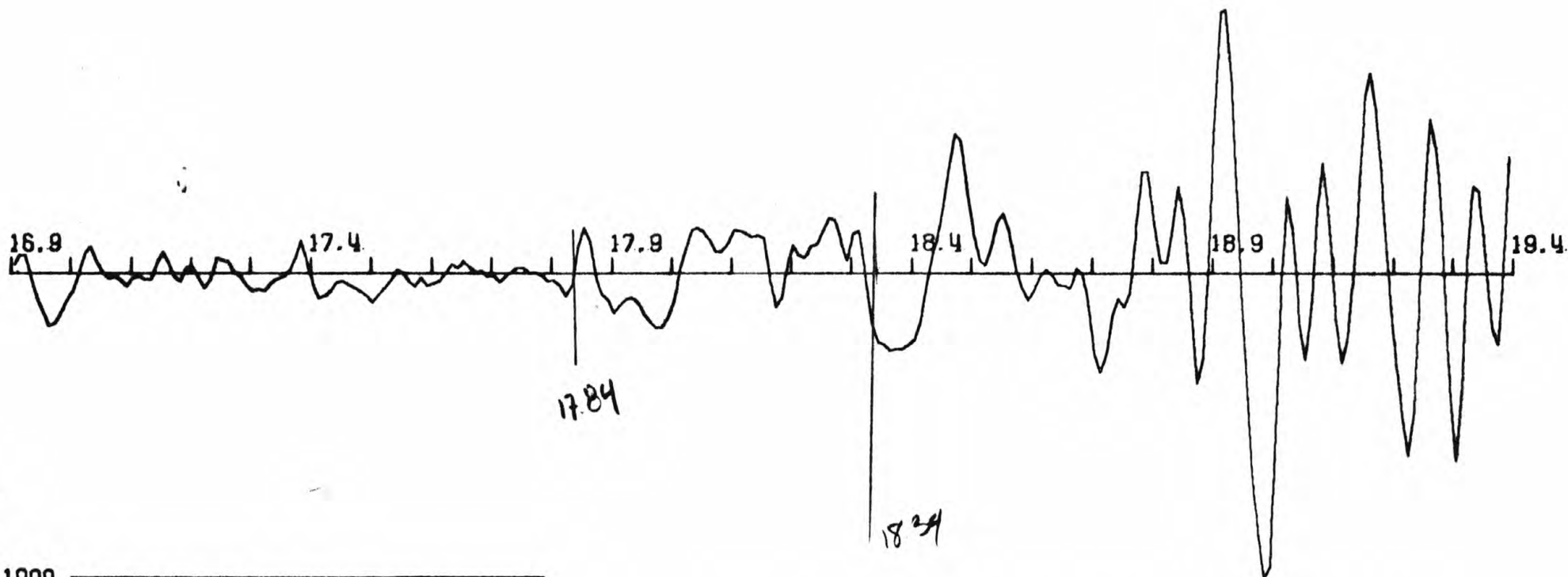
SAUDI ARABIAN REFRACTION PROFILE 30LP-DM

SHOT POINT 5

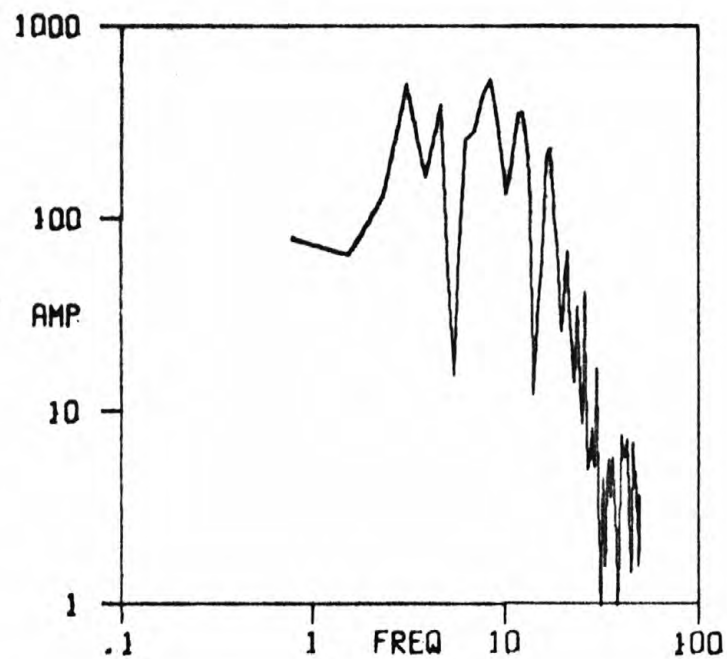
RECORDER LOCATION 910

DISTANCE FROM SHOT (KM) = -118.157

TSCALE (CM/SEC) = 10.0



754



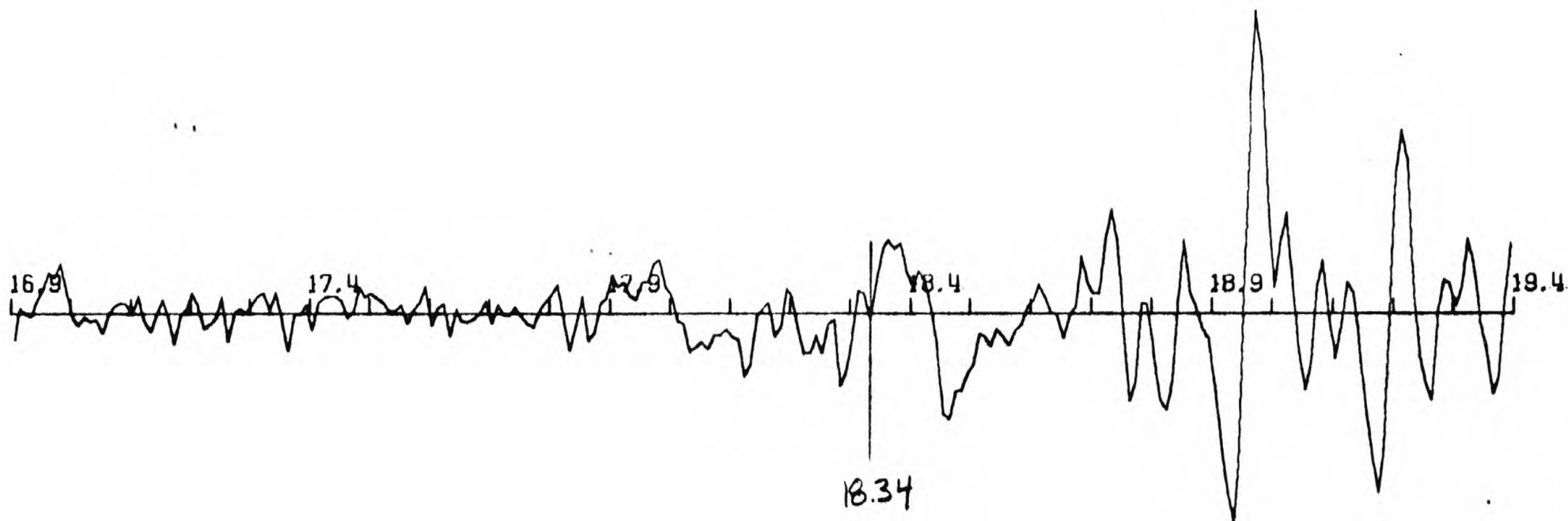
SAUDI ARABIAN REFRACTION PROFILE 30LP-DM.

SHOT. POINT. 5

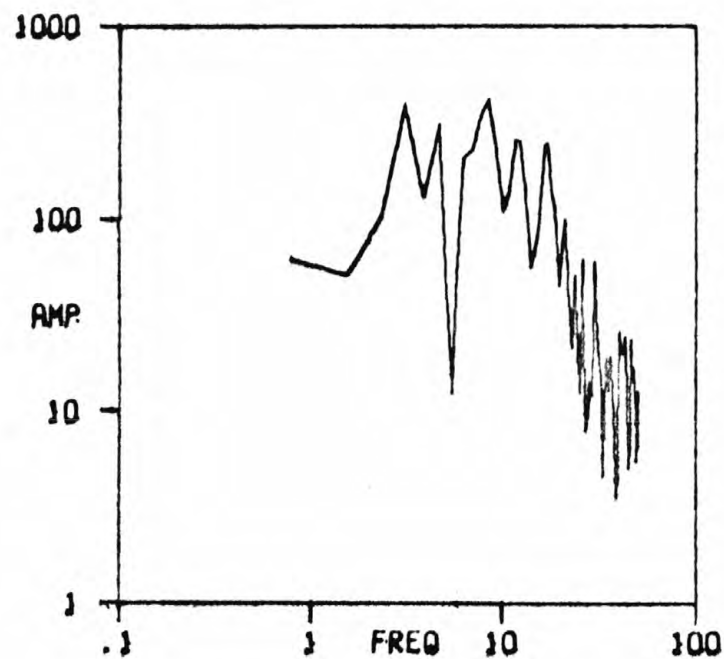
RECORDER LOCATION 911

DISTANCE FROM SHOT. (KM). = -119.140

TSCALE (CM/SEC) = 10.0



SS1



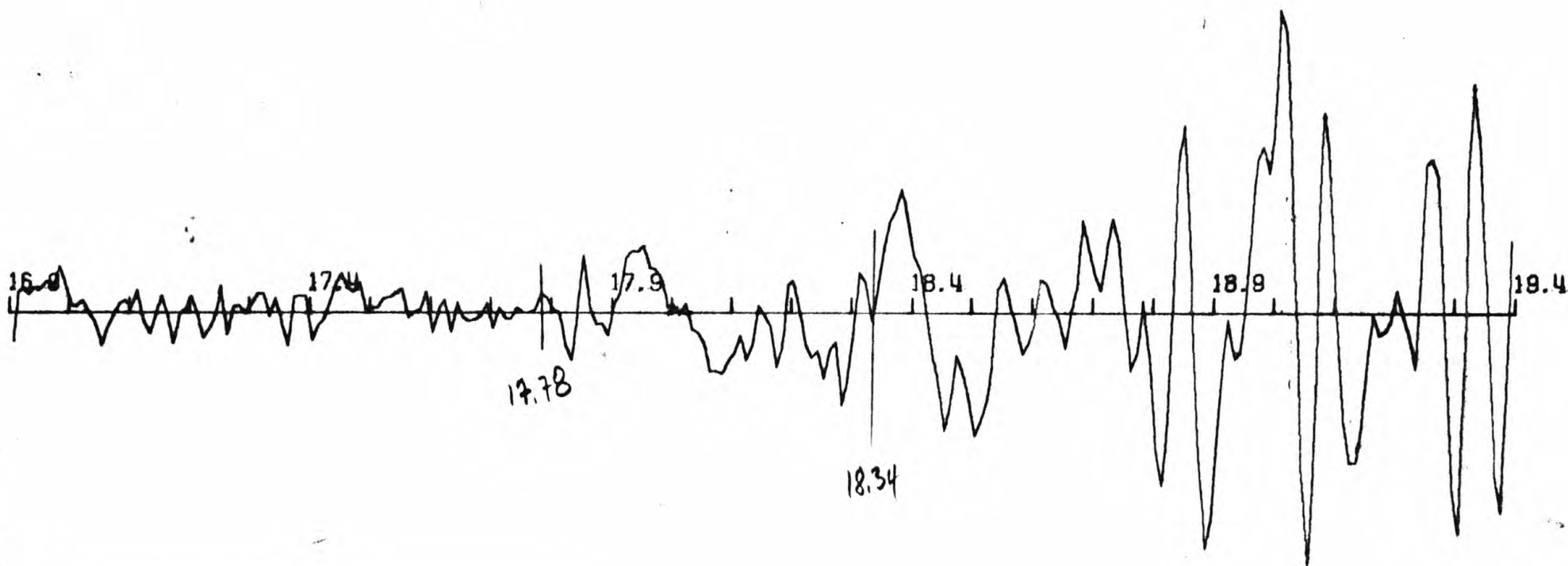
SAUDI ARABIAN REFRACTION PROFILE (15 HP)

SHOT POINT 5

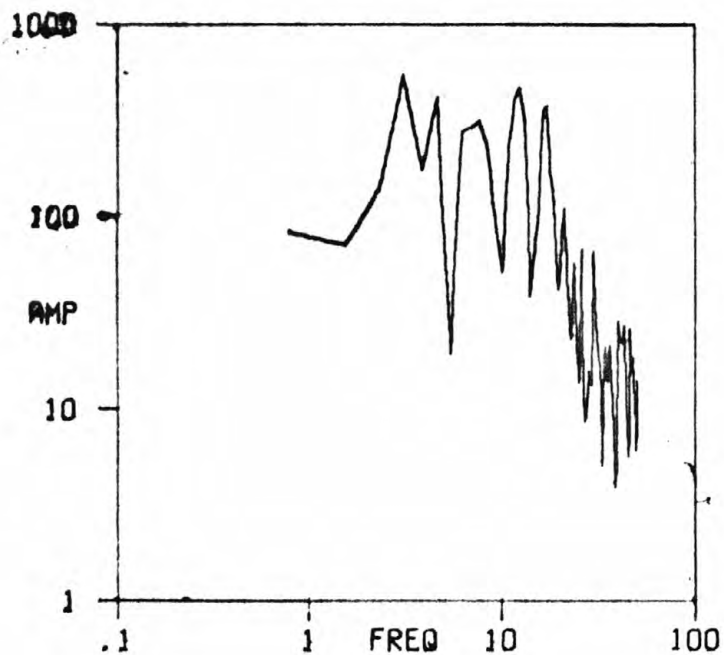
RECORDER LOCATION 911

DISTANCE FROM SHOT (KM) = -119.140

TSCALE (CM/SEC) = 10.0



756



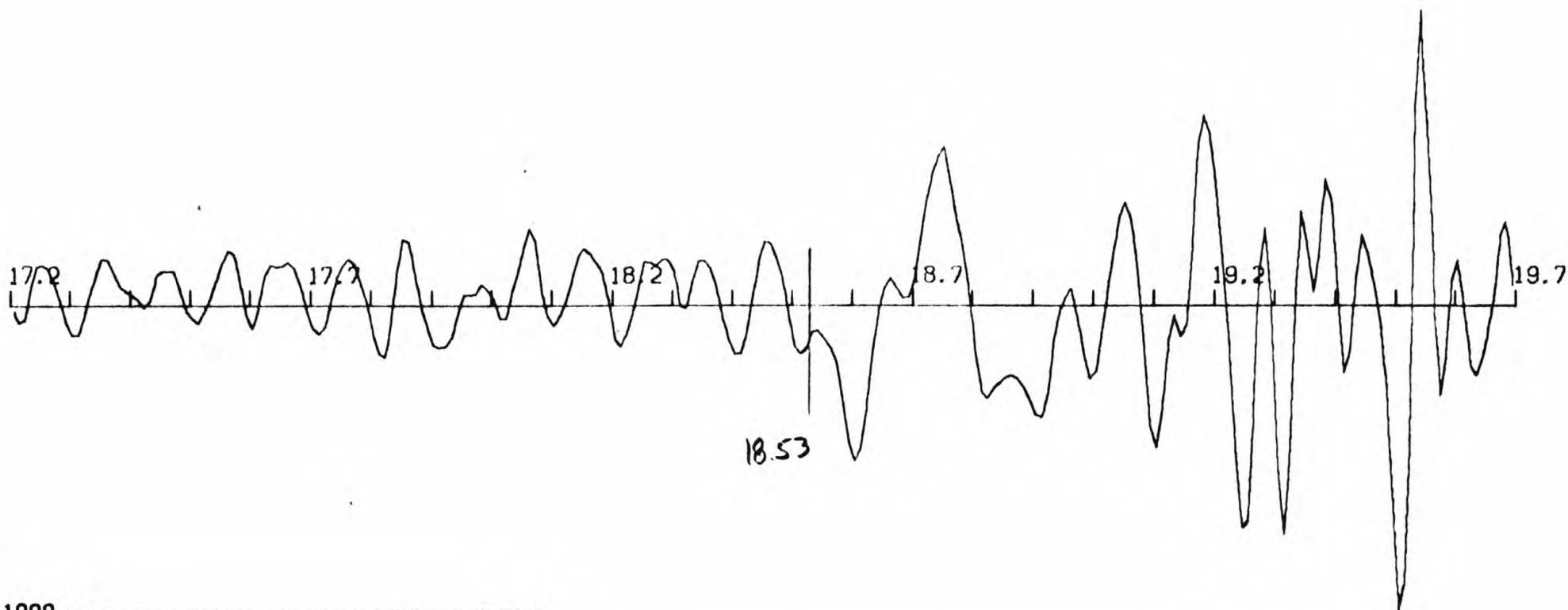
SAUDI ARABIAN REFRACTION PROFILE 10HP-DM

SHOT POINT 5

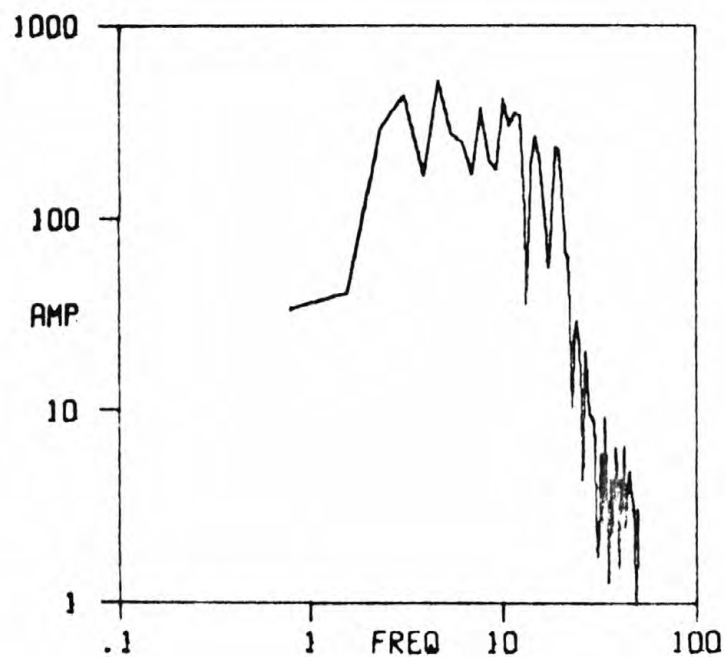
RECORDER LOCATION 911

DISTANCE FROM SHOT (KM) = -119.140

TSCALE (CM/SEC) = 10.0



758



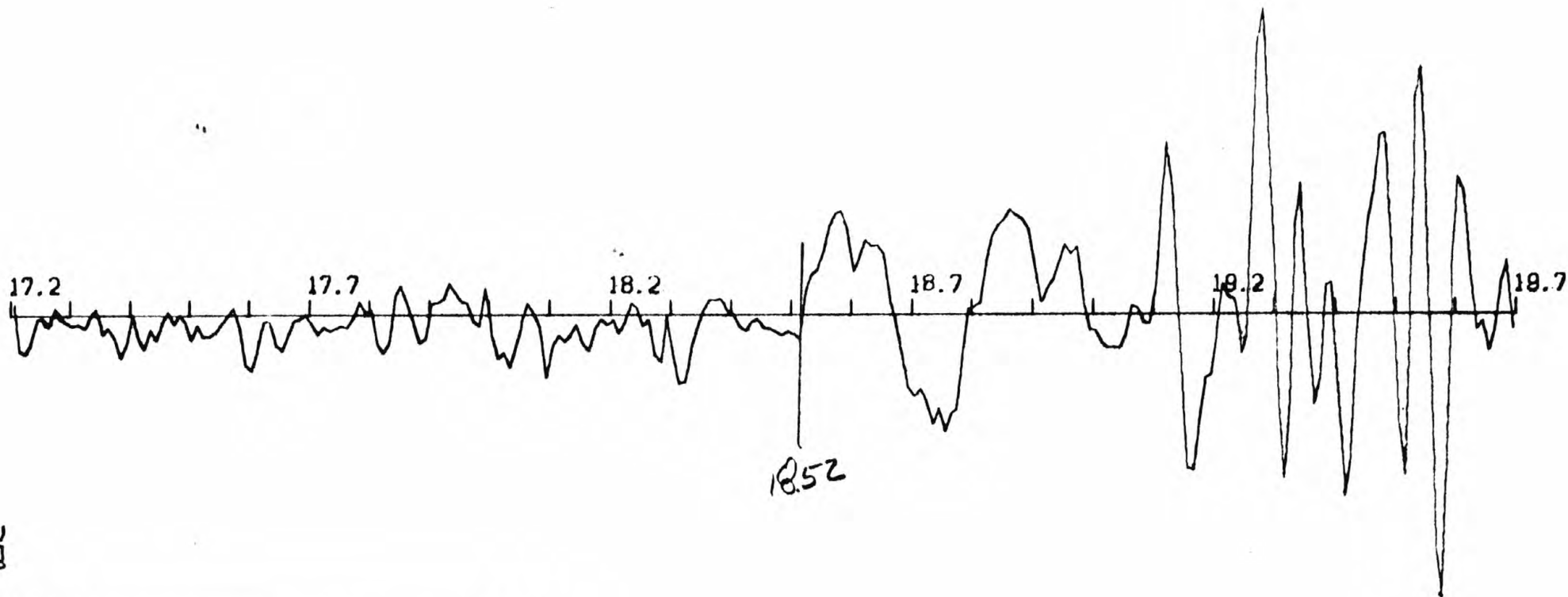
SAUDI ARABIAN REFRACTION PROFILE 30LP-DM

SHOT POINT 5

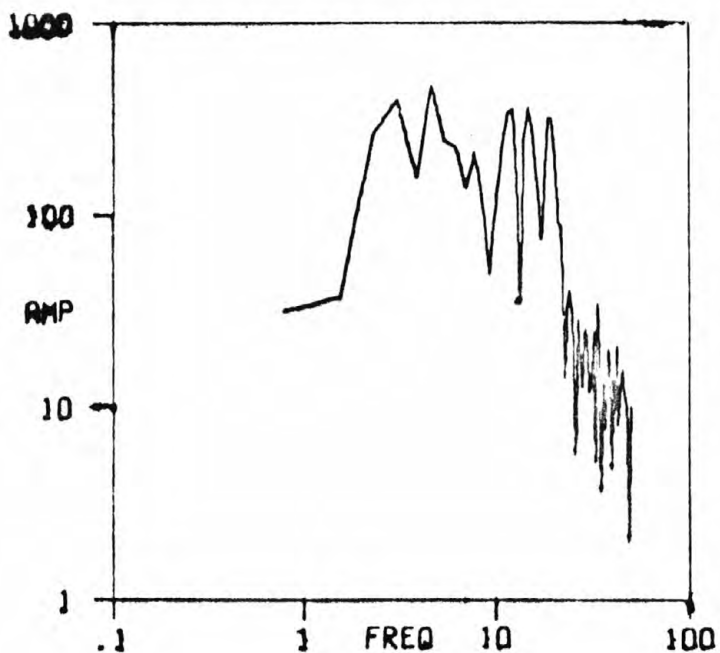
RECORDER LOCATION 912

DISTANCE FROM SHOT (KM) = -120.843

TSCALE (CM/SEC) = 10.0



15L



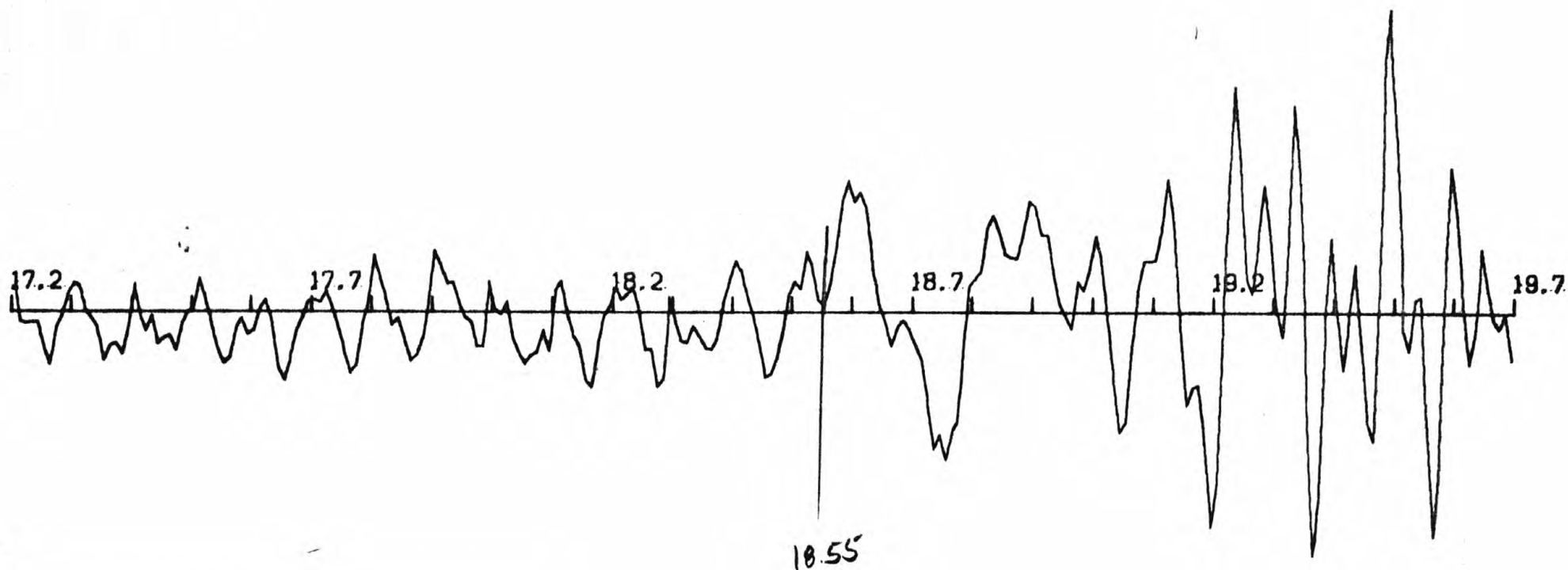
SAUDI ARABIAN REFRACTION PROFILE 10HP-DM

SHOT POINT 5

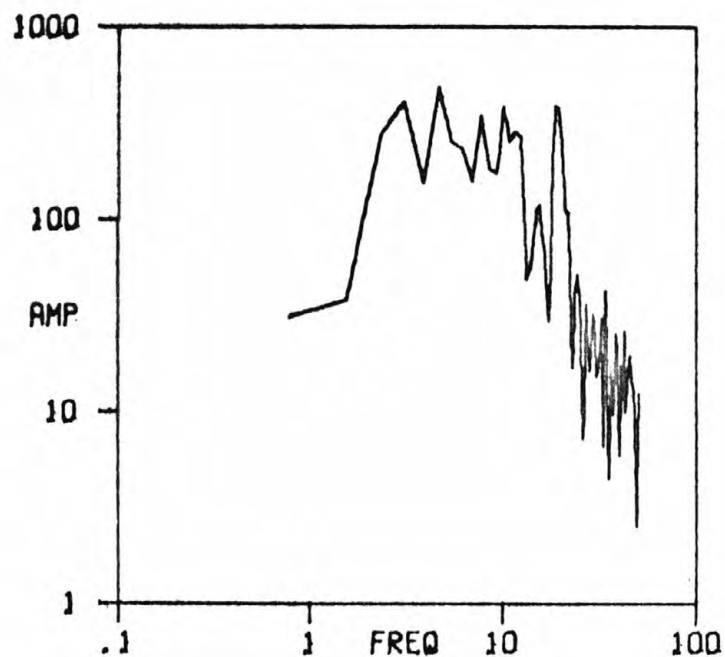
RECORDER LOCATION 812

DISTANCE FROM SHOT (KM) = -120.843

TSCALE (CM/SEC) = 10.0



700



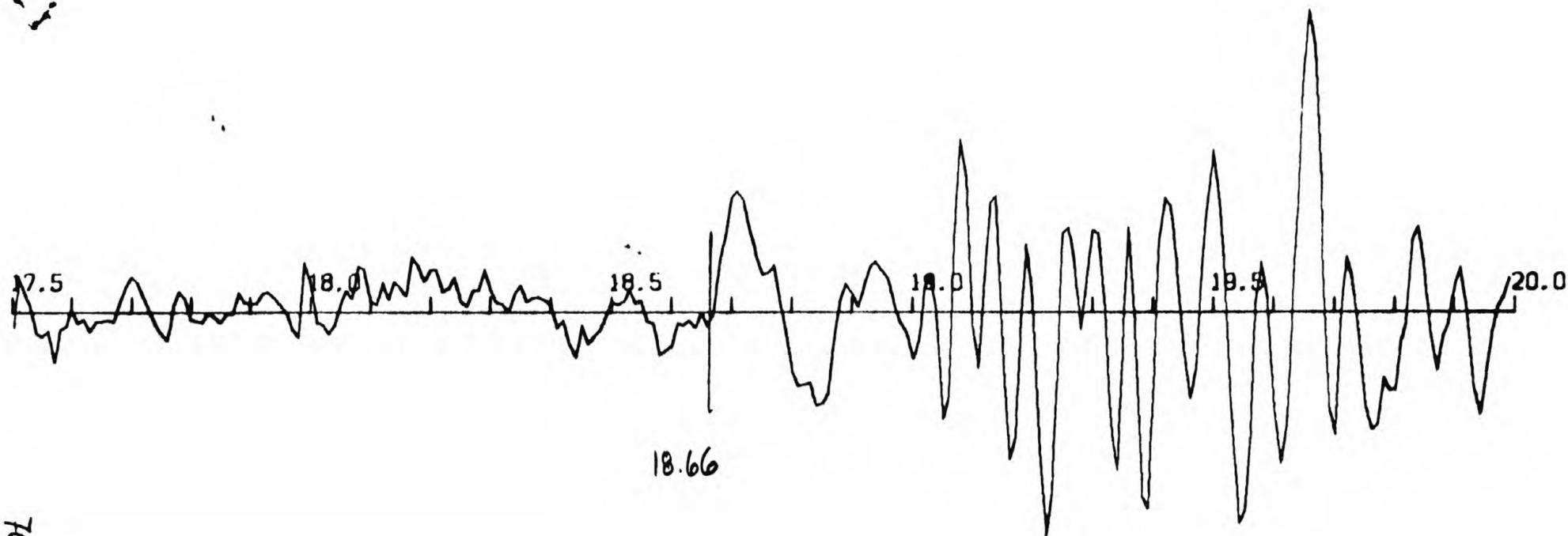
SAUDI ARABIAN REFRACTION PROFILE 15 HP

SHOT POINT 5

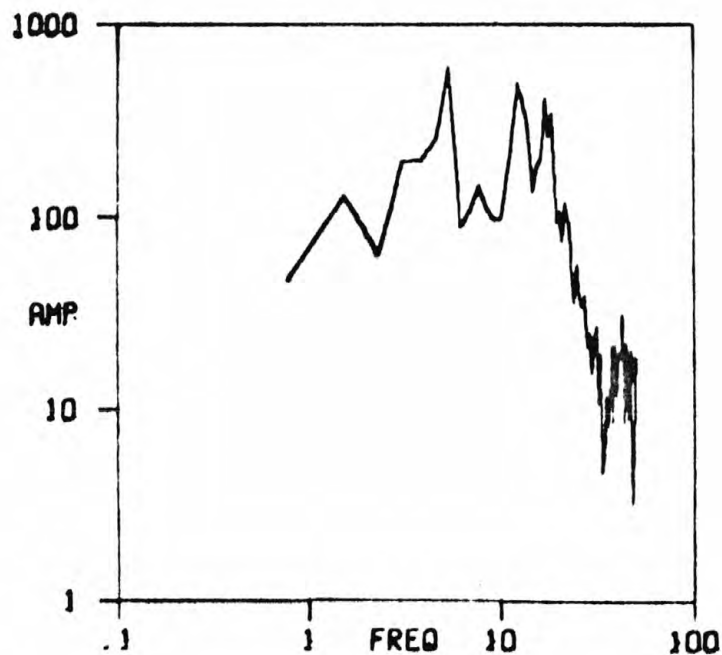
RECORDER LOCATION 912.

DISTANCE FROM SHOT (KM). = -120.943

TSCALE (CM/SEC). = 10.0



121



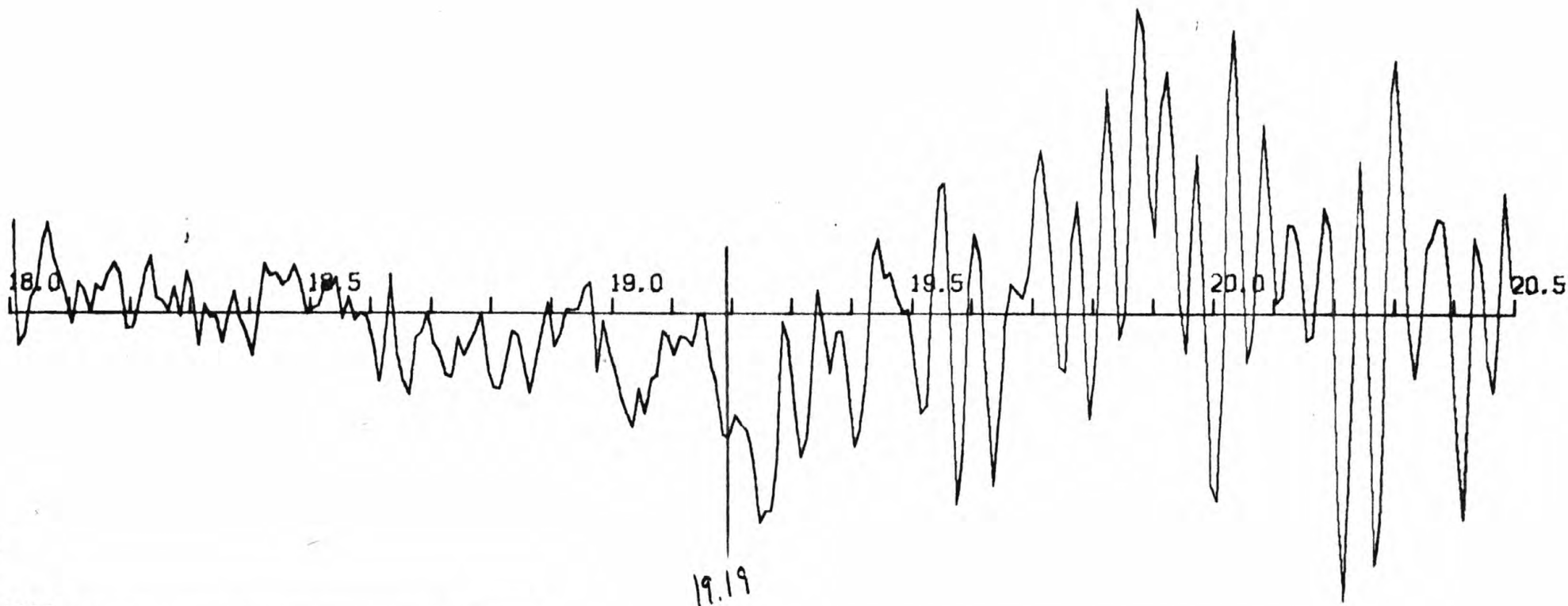
SAUDI ARABIAN REFRACTION PROFILE 10HP-DM

SHOT POINT 5

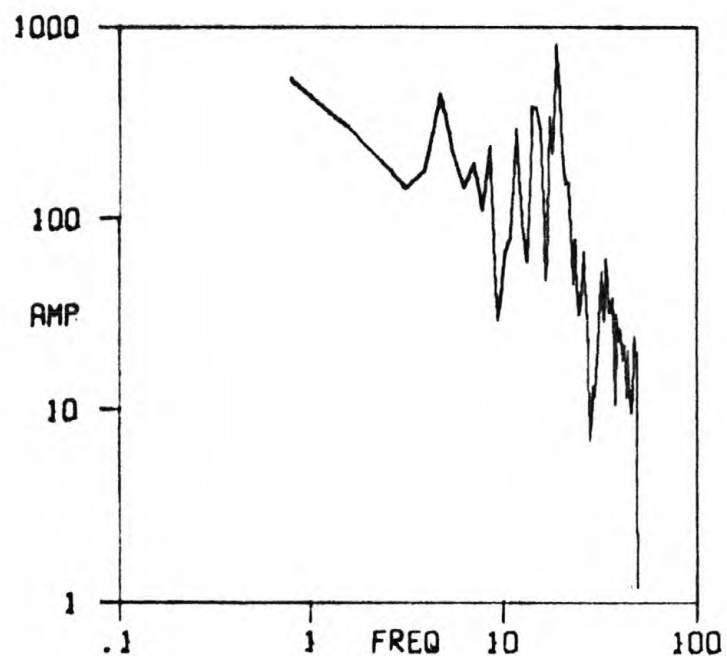
RECORDER LOCATION 813

DISTANCE FROM SHOT. (KM) = -122.423

TSCALE (CM/SEC) = 10.0



762



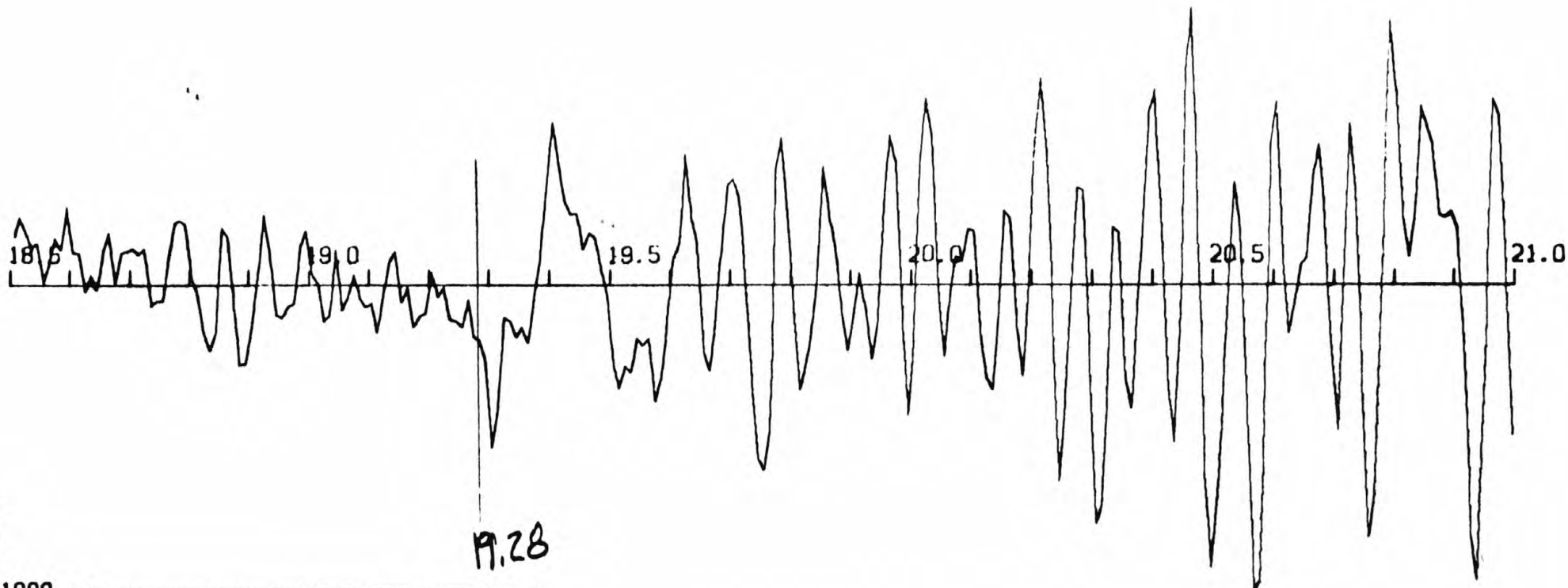
SAUDI ARABIAN REFRACTION PROFILE 10HP-DM

SHOT. POINT. 5

RECORDER LOCATION 914

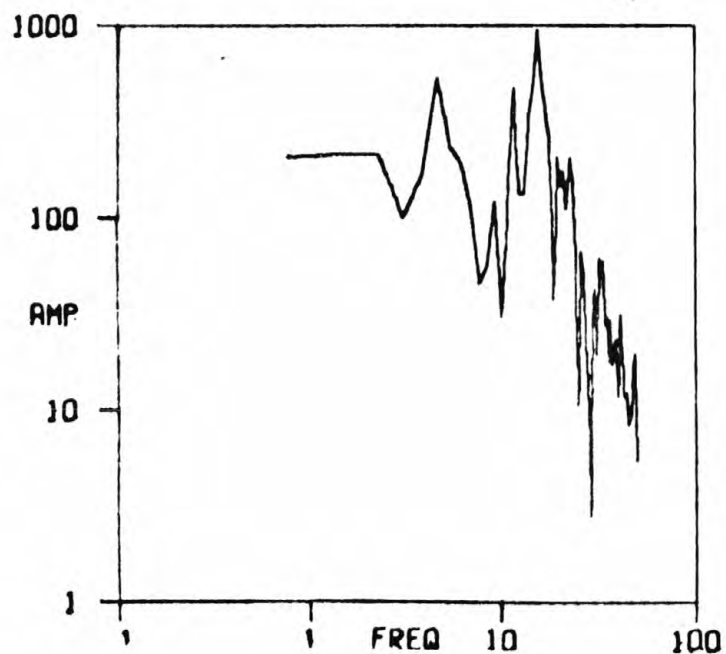
DISTANCE FROM SHOT (KM) = -125.983

TSCALE (CM/SEC) = 10.0



763

19.28



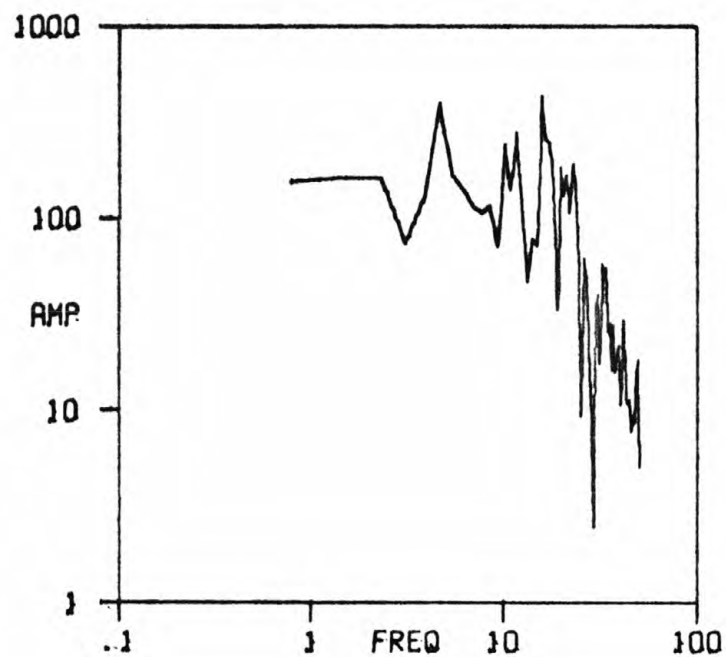
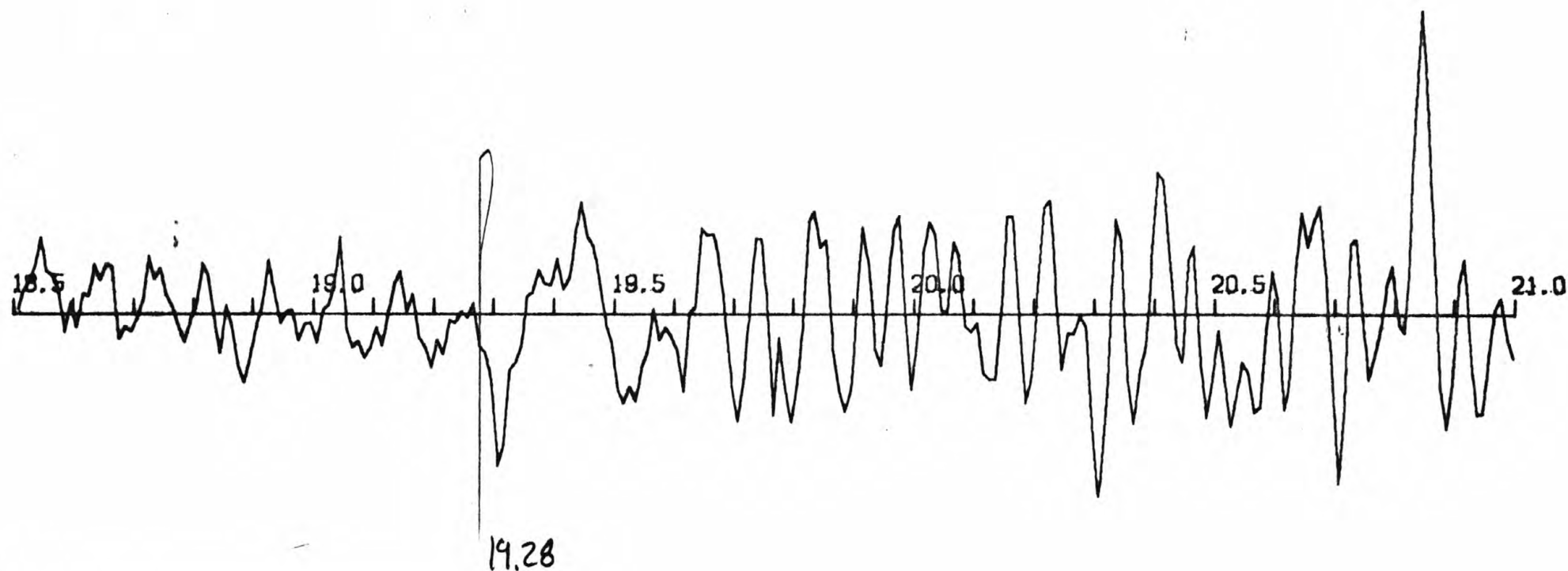
SAUDI ARABIAN REFRACTION PROFILE 10HP-DM

SHOT POINT 5

RECORDER LOCATION 915

DISTANCE FROM SHOT (KM) = -128.450

TSCALE (CM/SEC) = 10.0



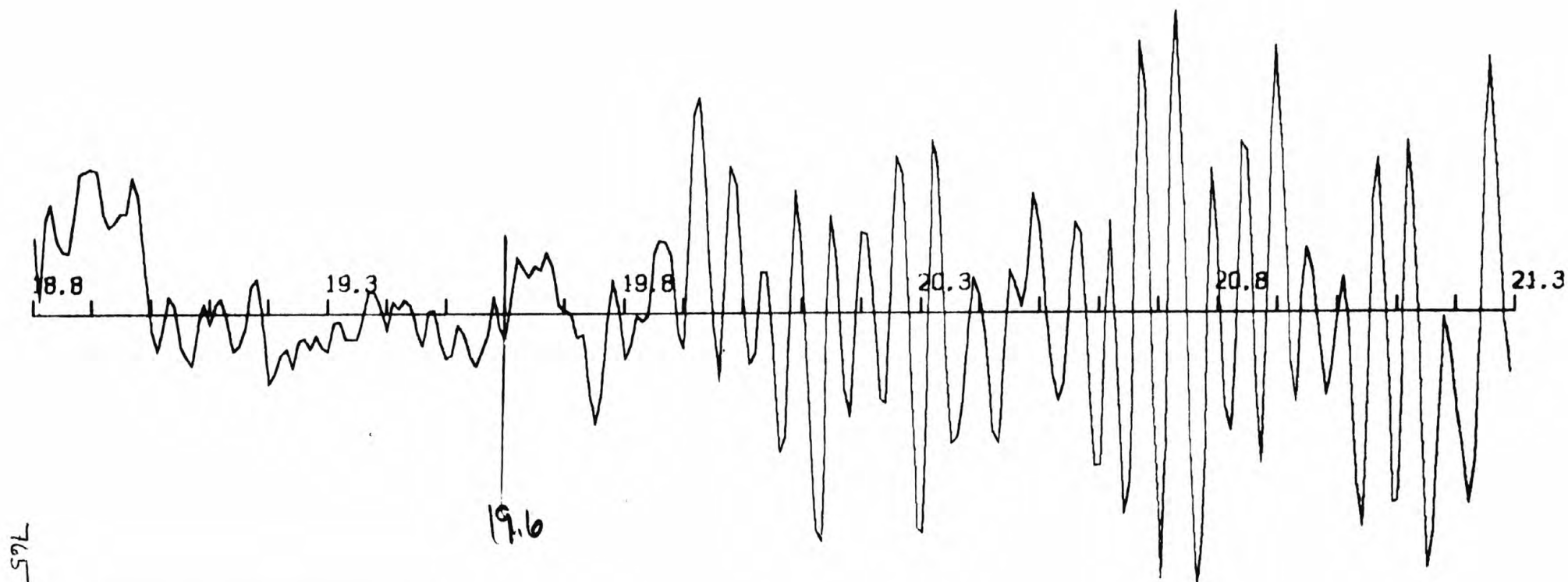
SAUDI ARABIAN REFRACTION PROFILE 15 HP

SHOT POINT 5

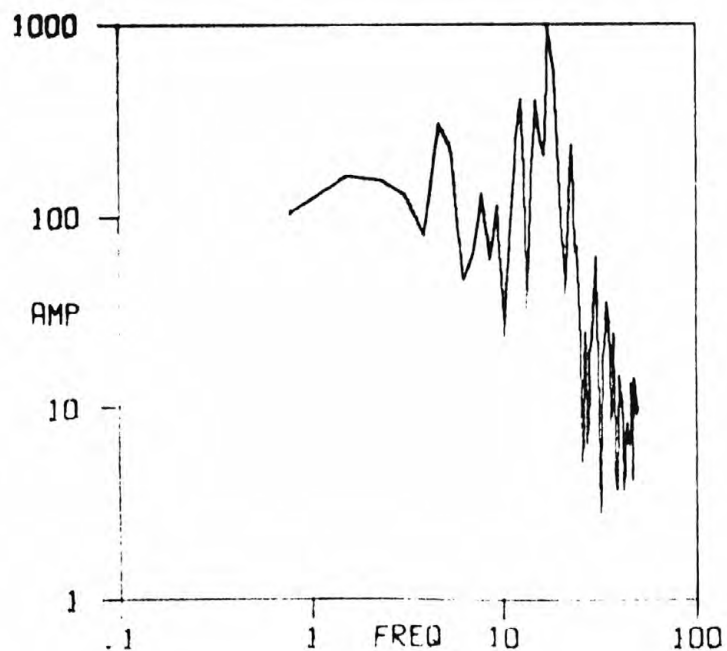
RECORDER LOCATION 915

DISTANCE FROM SHOT (KM) = -128.450

TSCALE (CM/SEC) = 10.0



7/5



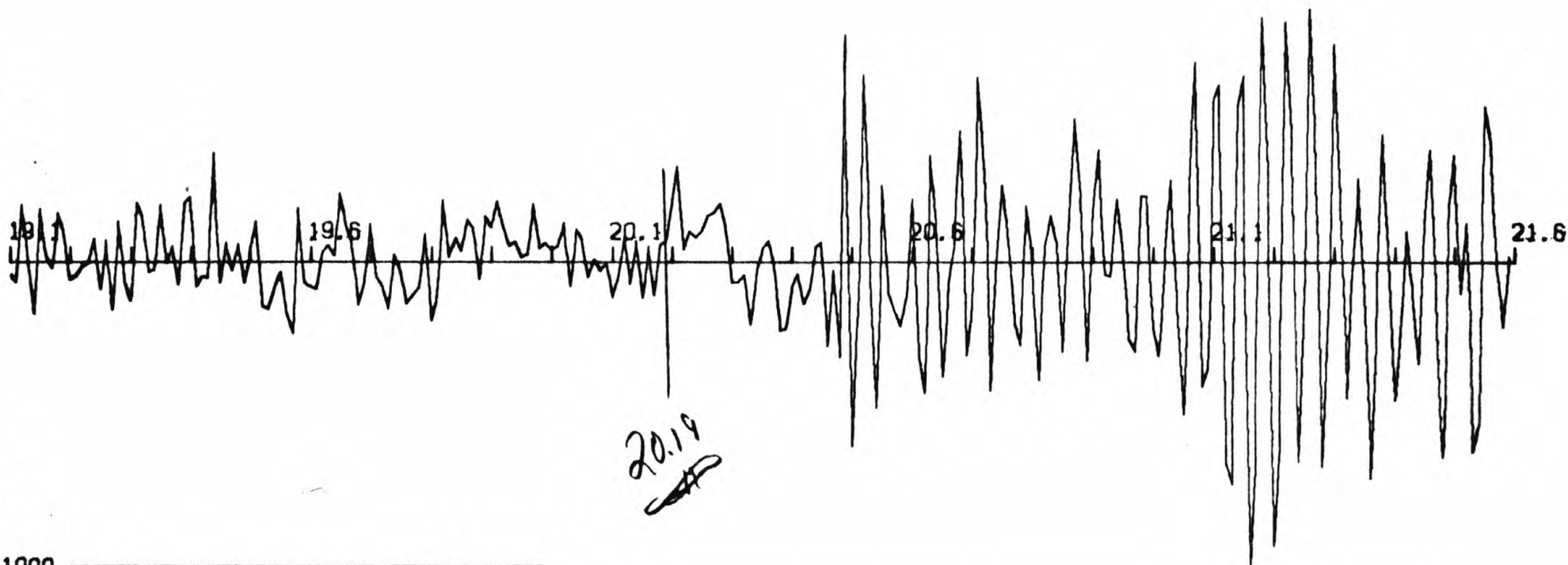
SAUDI ARABIAN REFRACTION PROFILE 10HP-DM

SHOT POINT 5

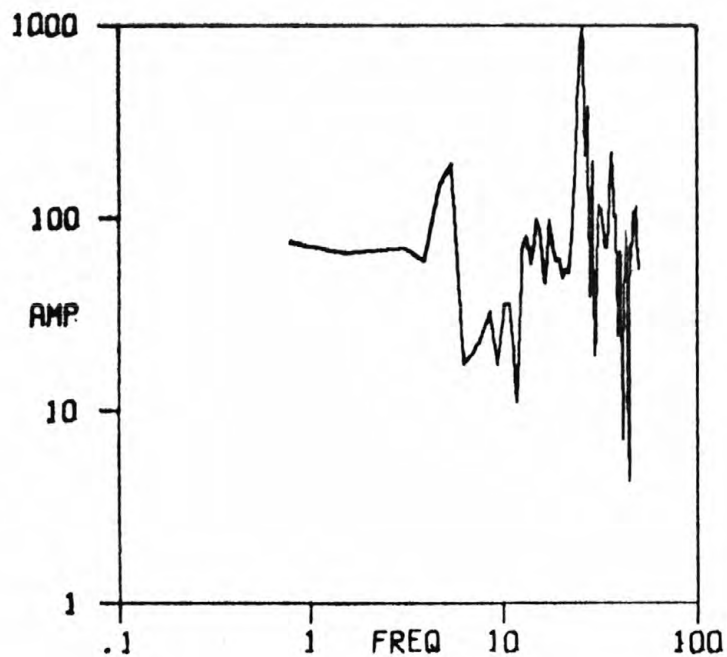
RECORDER LOCATION 916

DISTANCE FROM SHOT (KM) = -130.462

TSCALE (CM/SEC) = 10.0



99L



SAUDI ARABIAN REFRACTION PROFILE 10HP-DM

SHOT POINT. 5

RECORDER LOCATION 917

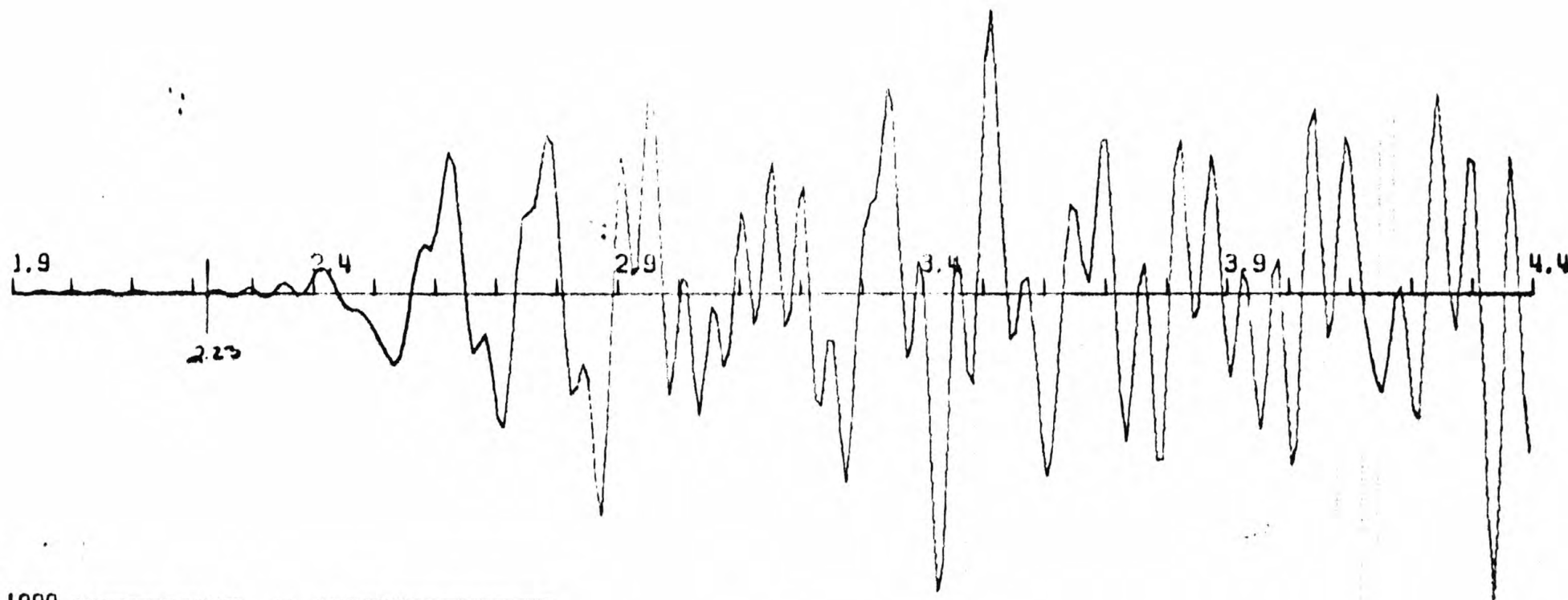
DISTANCE FROM SHOT. (KM) = -132.375

TSCALE (CM/SEC) = 10.0

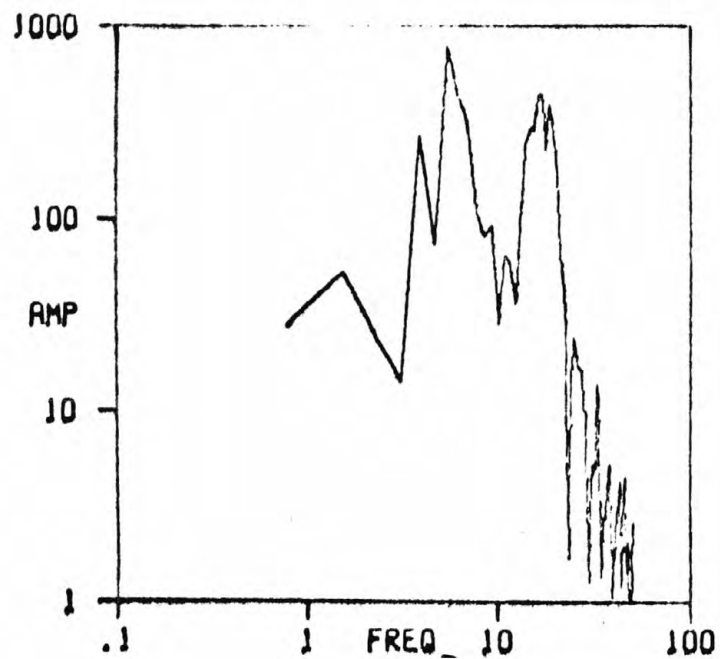
First Arrivals

Northeast from Shot Point 6

(11.0 to 423.4 km)



692



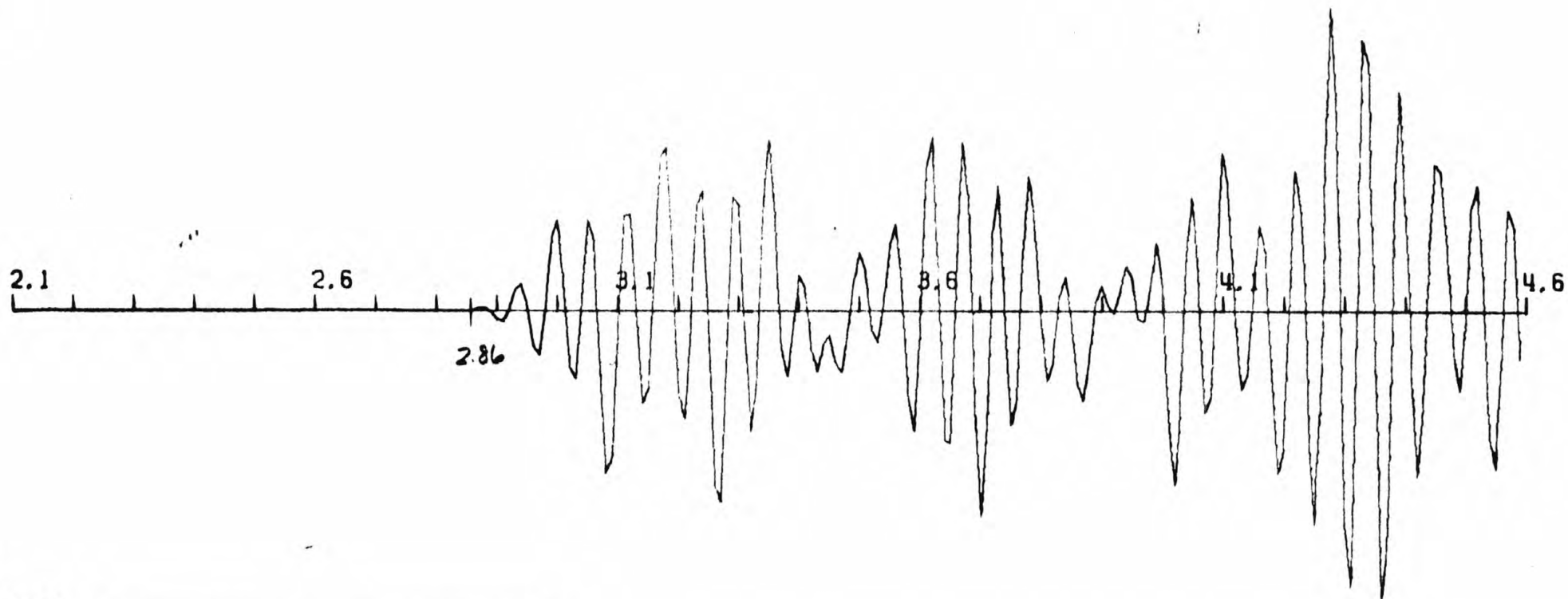
SAUDI REFRACTION PROFILE 15,20 BP

SHOT POINT 6

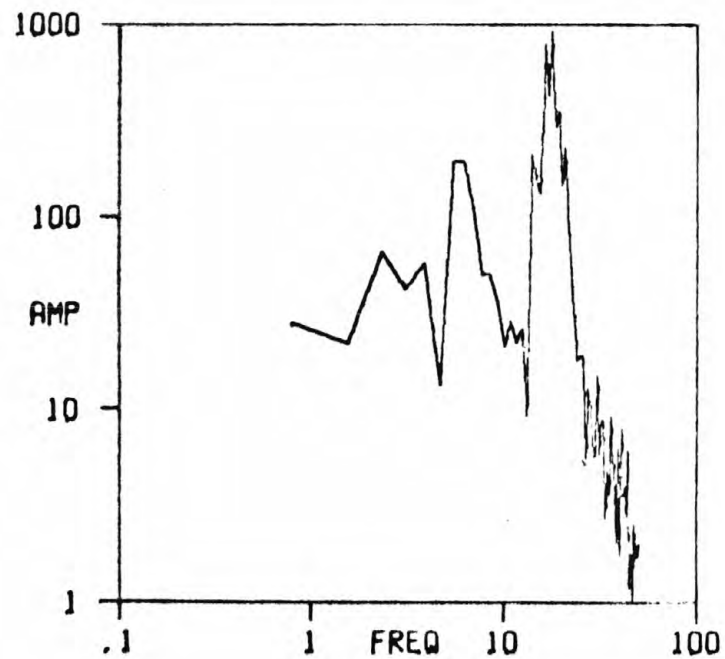
RECORDER LOCATION 917

DISTANCE FROM SHOT (KM) = 11.006

TSCALE (CM/SEC) = 10.0



776



SAUDI REFRACTION PROFILE 15.20 BP

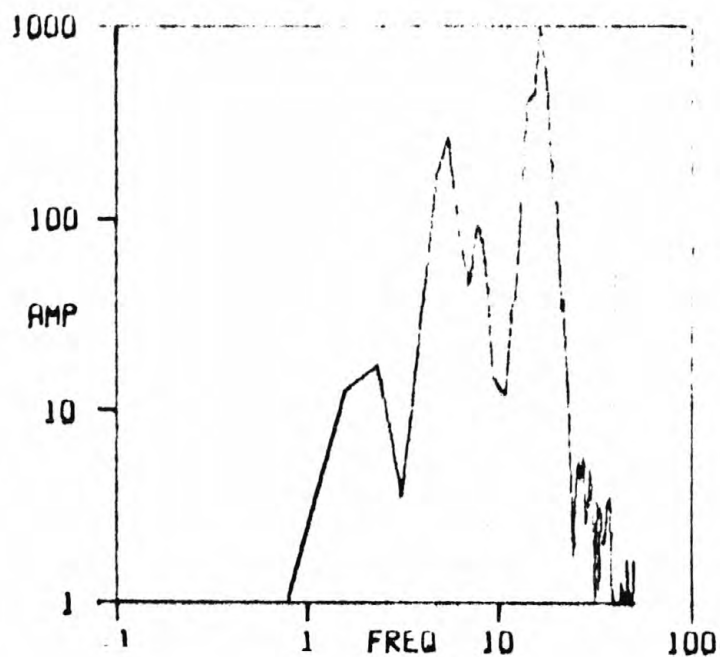
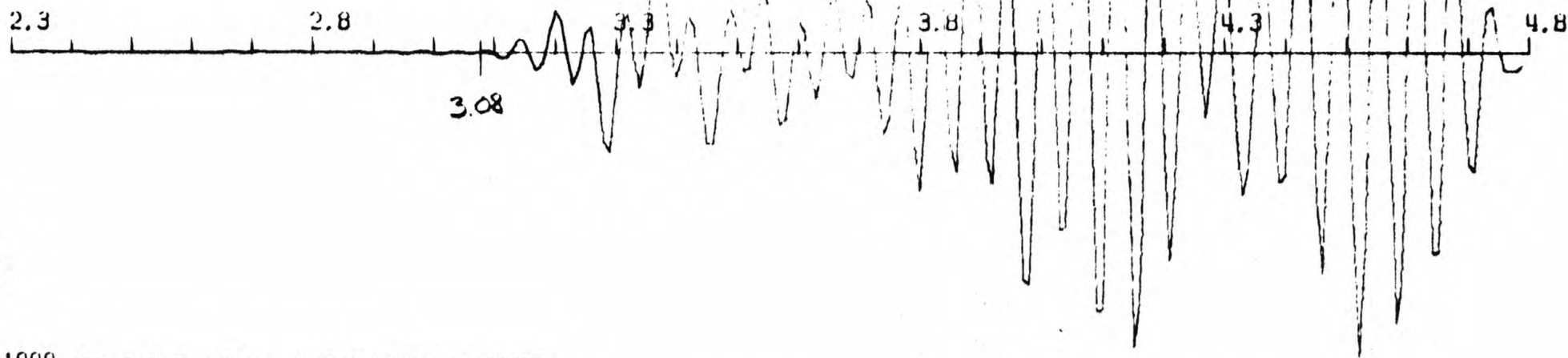
SHOT POINT 6

RECORDER LOCATION 916

DISTANCE FROM SHOT (KM) = 12.129

TSCALE (CM/SEC) = 10.0

711



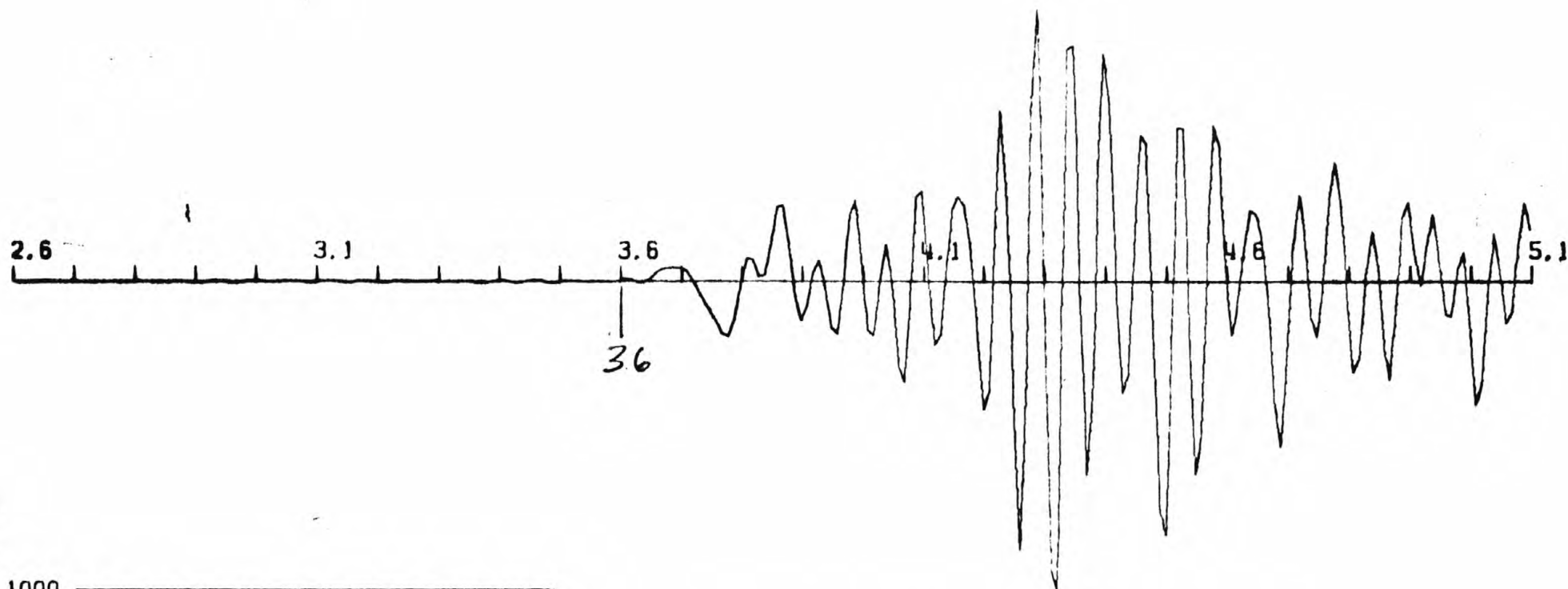
SAUDI REFRACTION PROFILE 15,20 BP

SHOT POINT 6

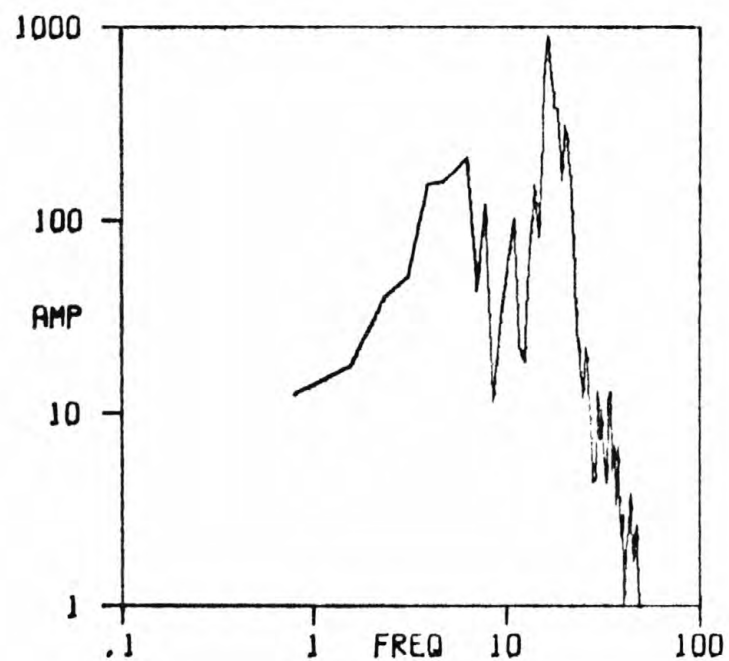
RECORDER LOCATION 915

DISTANCE FROM SHOT (KM) = 13.205

TSCALE (CM/SEC) = 10.0



772



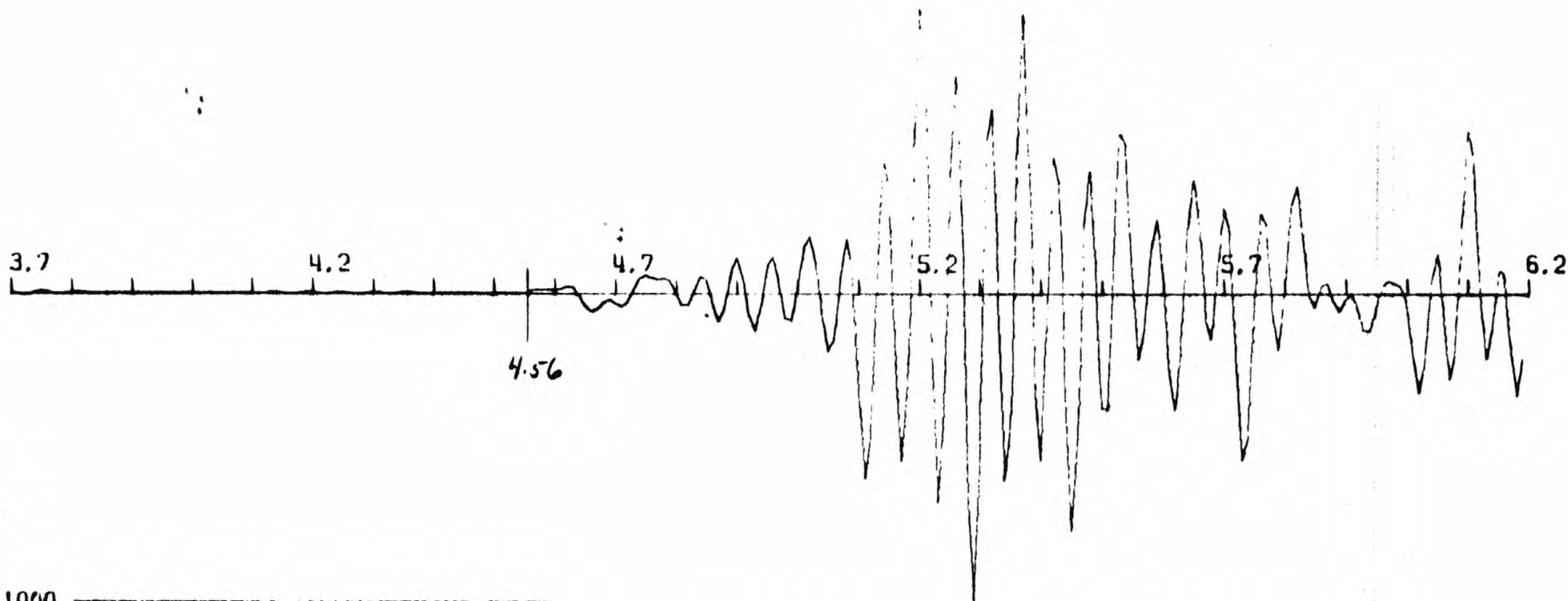
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 6

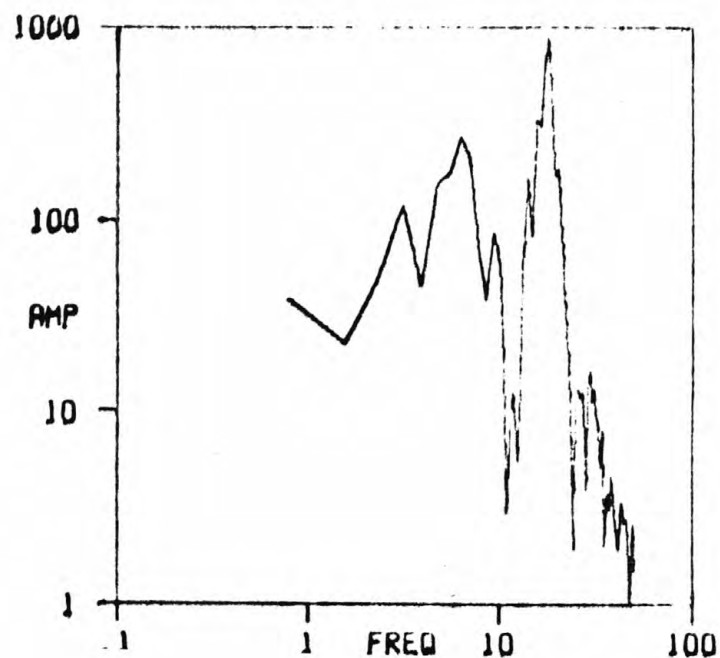
RECORDER LOCATION 914

DISTANCE FROM SHOT (KM) = 15.175

TSCALE (CM/SEC) = 10.0



713



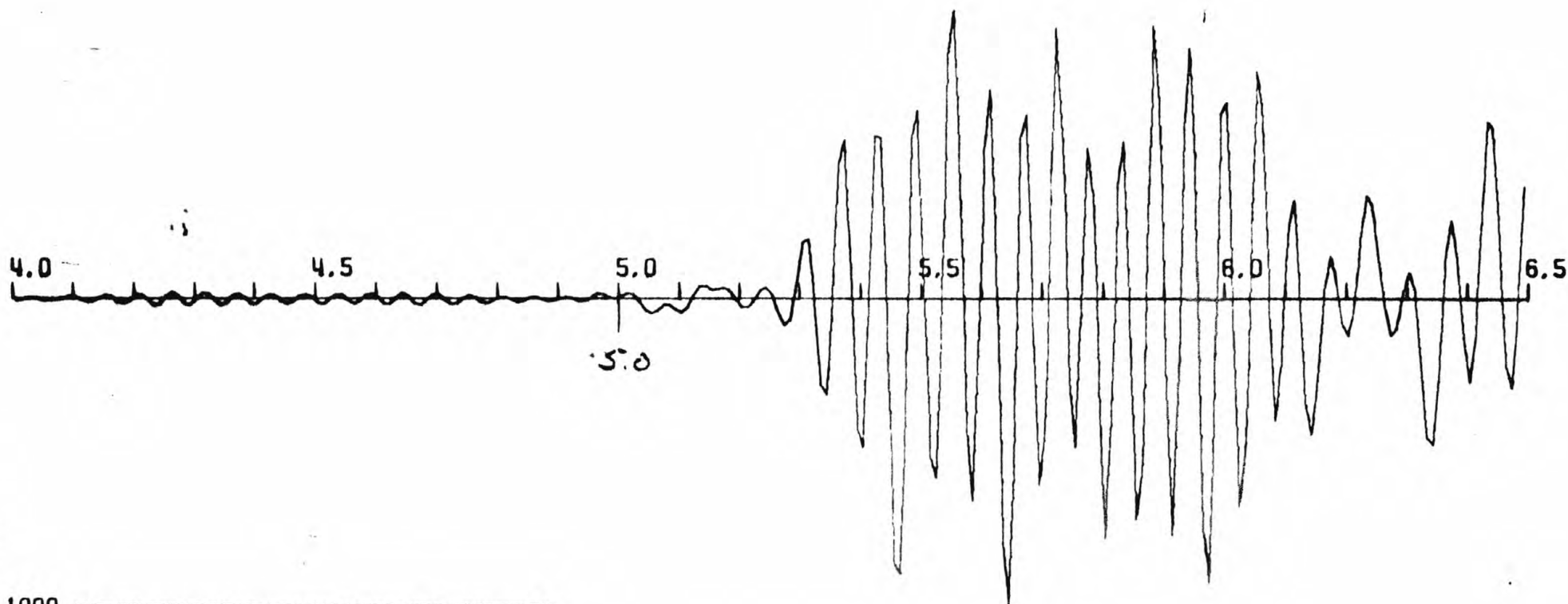
SAUDI REFRACTION PROFILE 15,20 BP

SHOT POINT 6

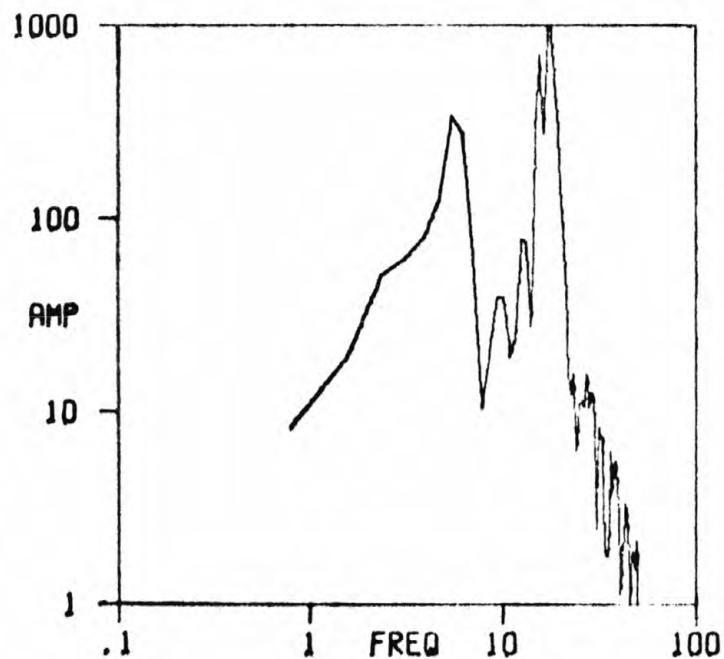
RECORDER LOCATION 912

DISTANCE FROM SHOT (KM) = 19.026

TSCALE (CM/SEC) = 10.0



774



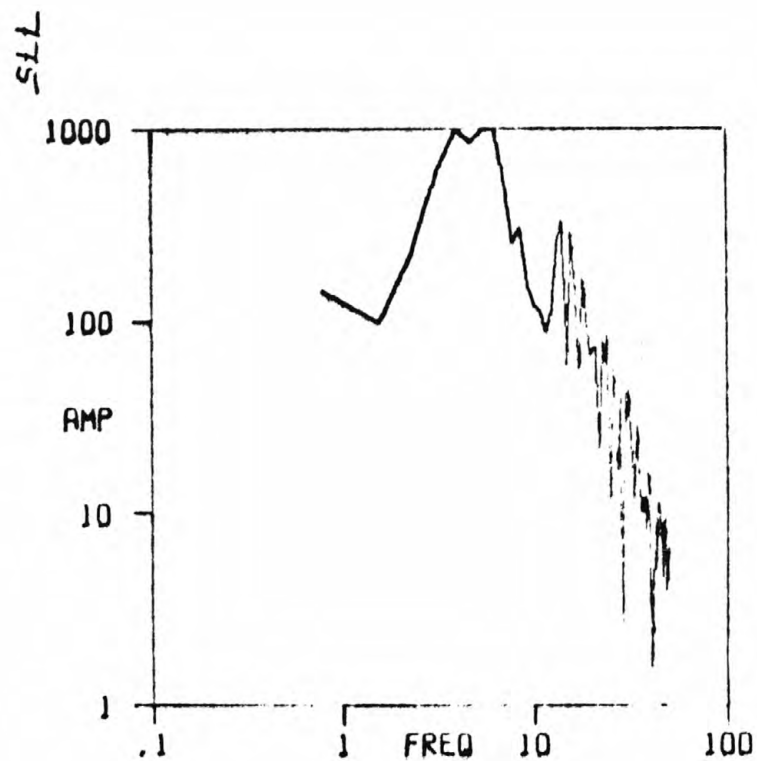
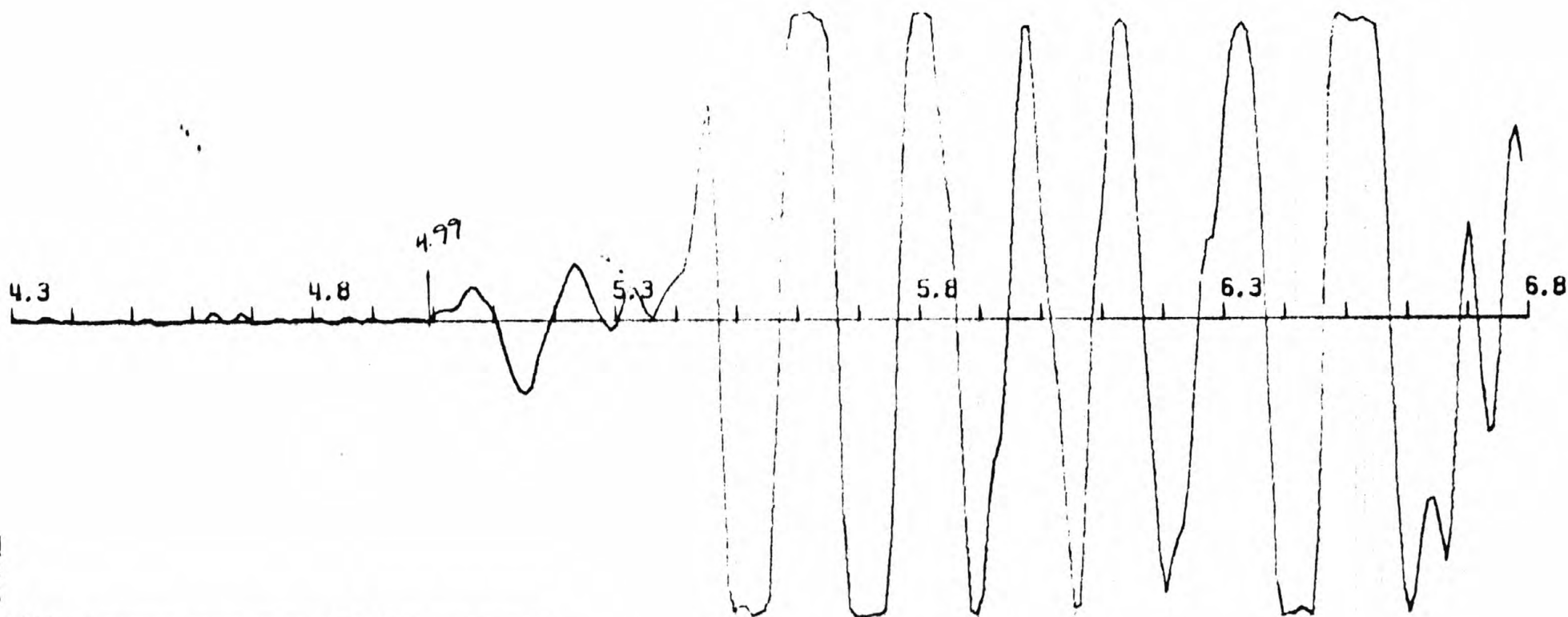
SAUDI REFRACTION PROFILE 15,20 BP

SHOT POINT 6

RECORDER LOCATION 911

DISTANCE FROM SHOT (KM) = 20.735

TSCALE (CM/SEC) = 10.0



SAUDI REFRACTION PROFILE

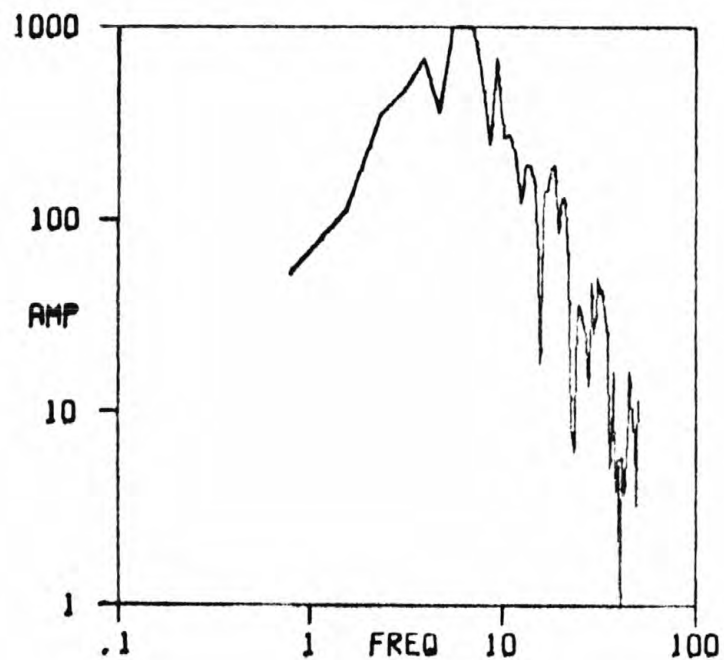
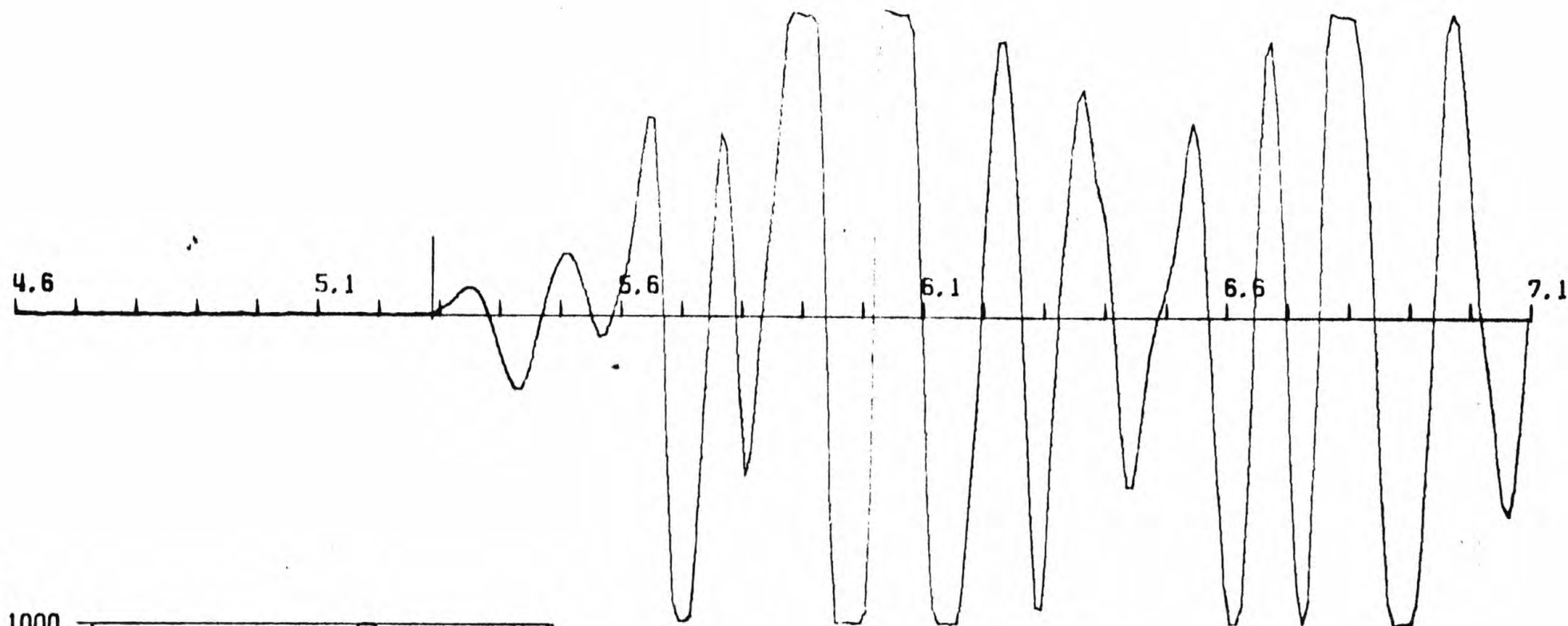
SHOT POINT 6

RECORDER LOCATION 910

DISTANCE FROM SHOT (KM) = 22,460

TSCALE (CM/SEC) = 10.0

776



SAUDI REFRACTION PROFILE

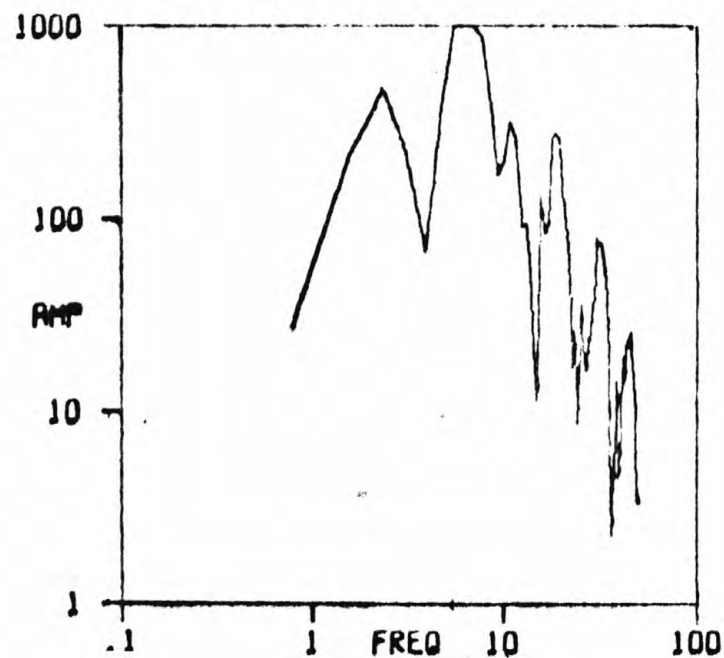
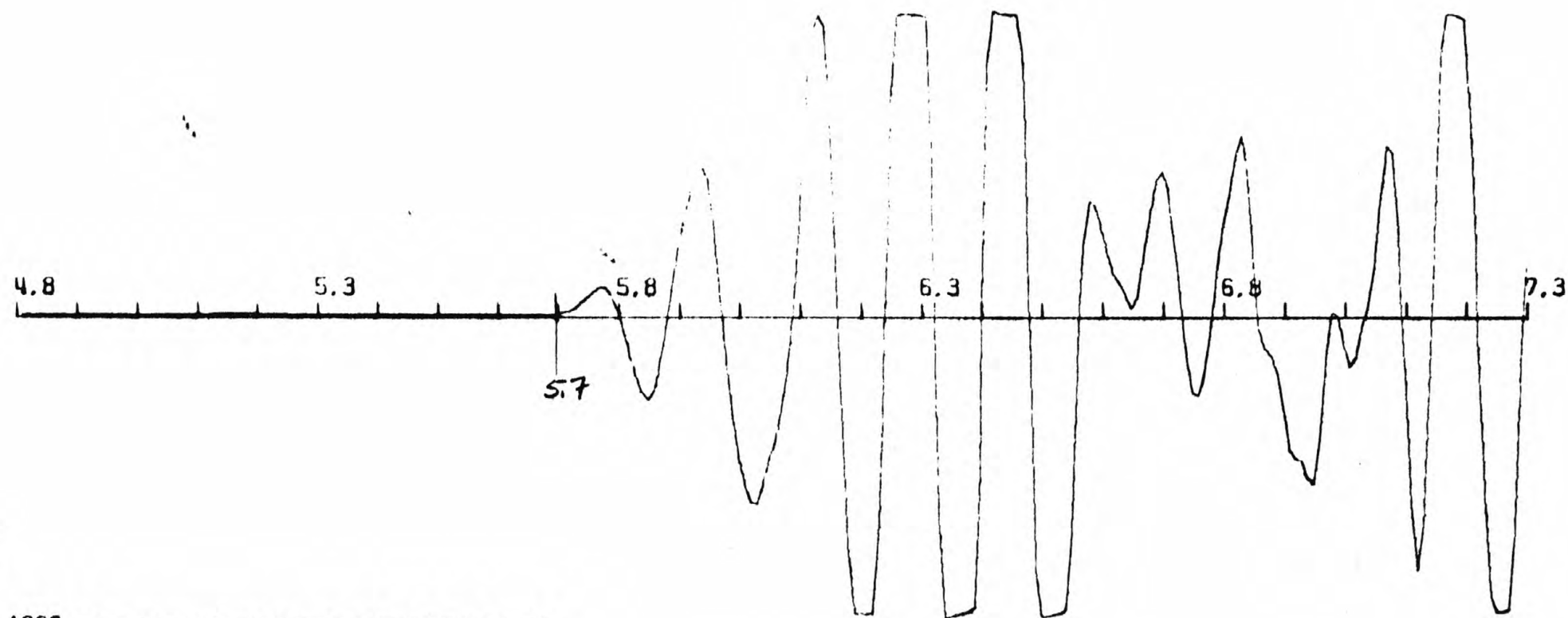
SHOT POINT 6

RECORDER LOCATION 909

DISTANCE FROM SHOT (KM) = 24.155

TSCALE (CM/SEC) = 10.0

111



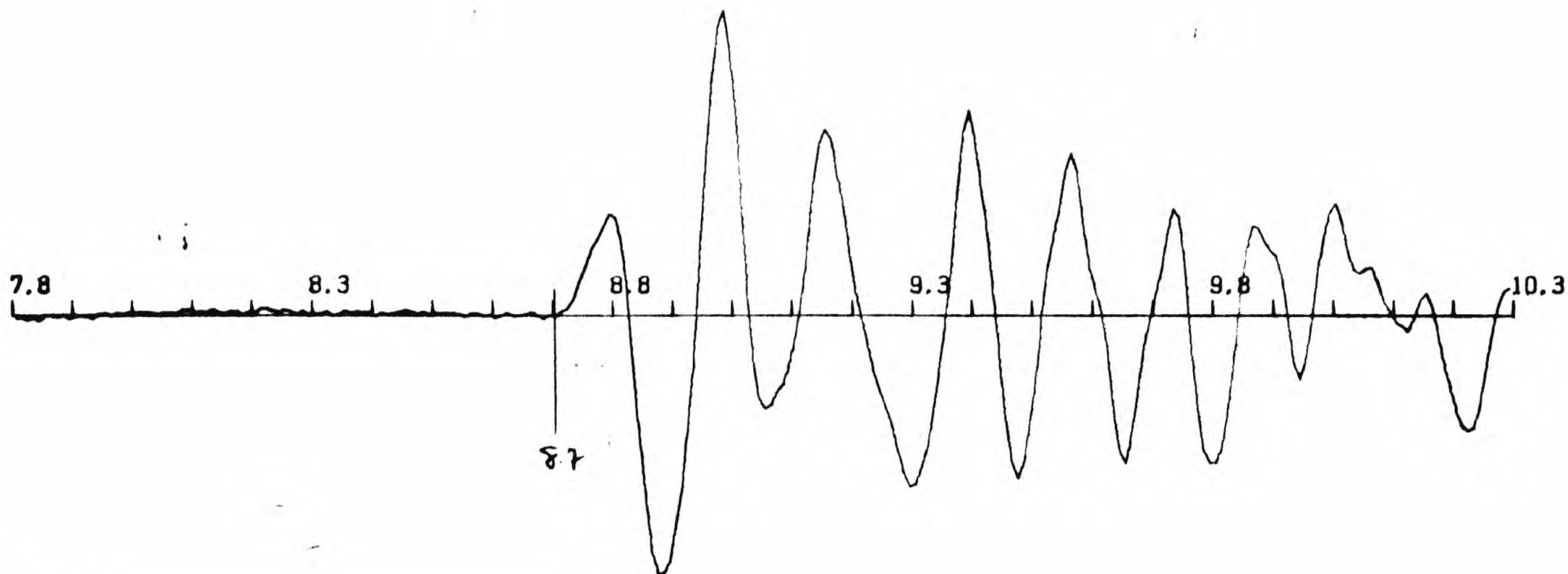
SAUDI REFRACTION PROFILE

SHOT POINT 6

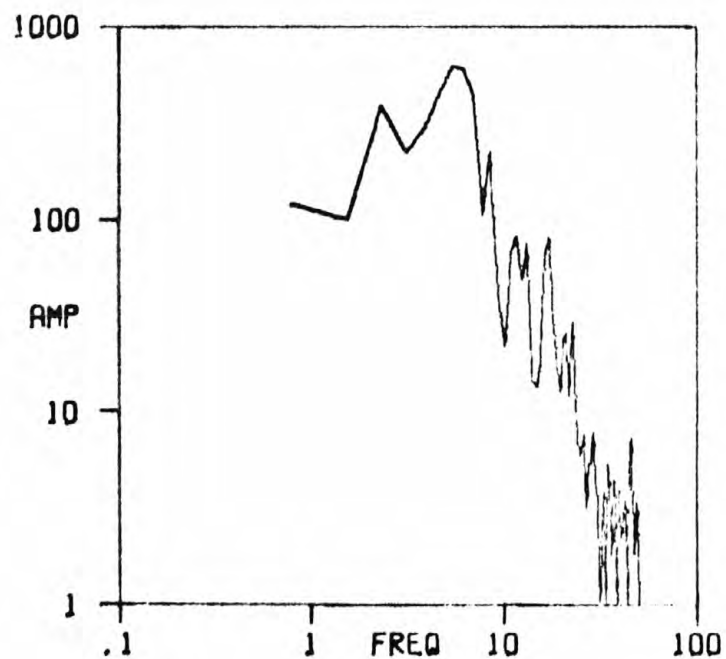
RECORDER LOCATION 908

DISTANCE FROM SHOT (KM) = 25.796

TSCALE (CM/SEC) = 10.0



778



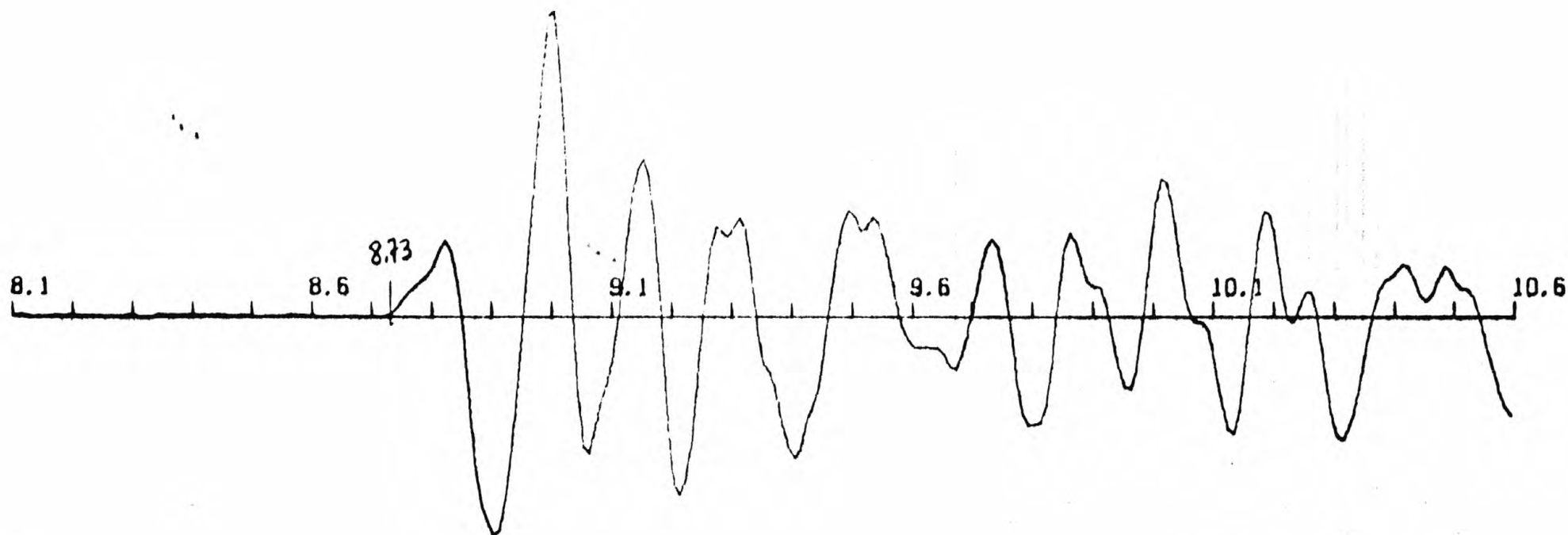
SAUDI REFRACTION PROFILE

SHOT POINT 6

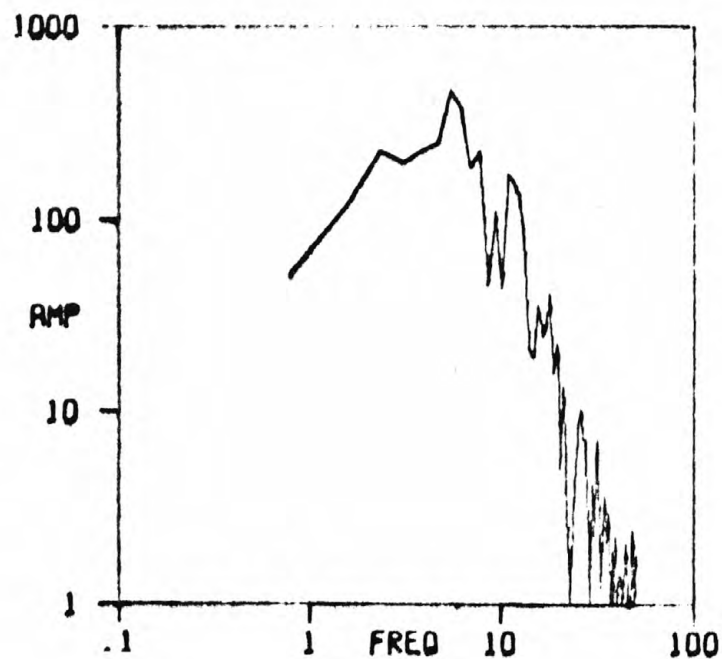
RECORDER LOCATION 907

DISTANCE FROM SHOT (KM) = 40.359

TSCALE (CM/SEC) = 10.0



719



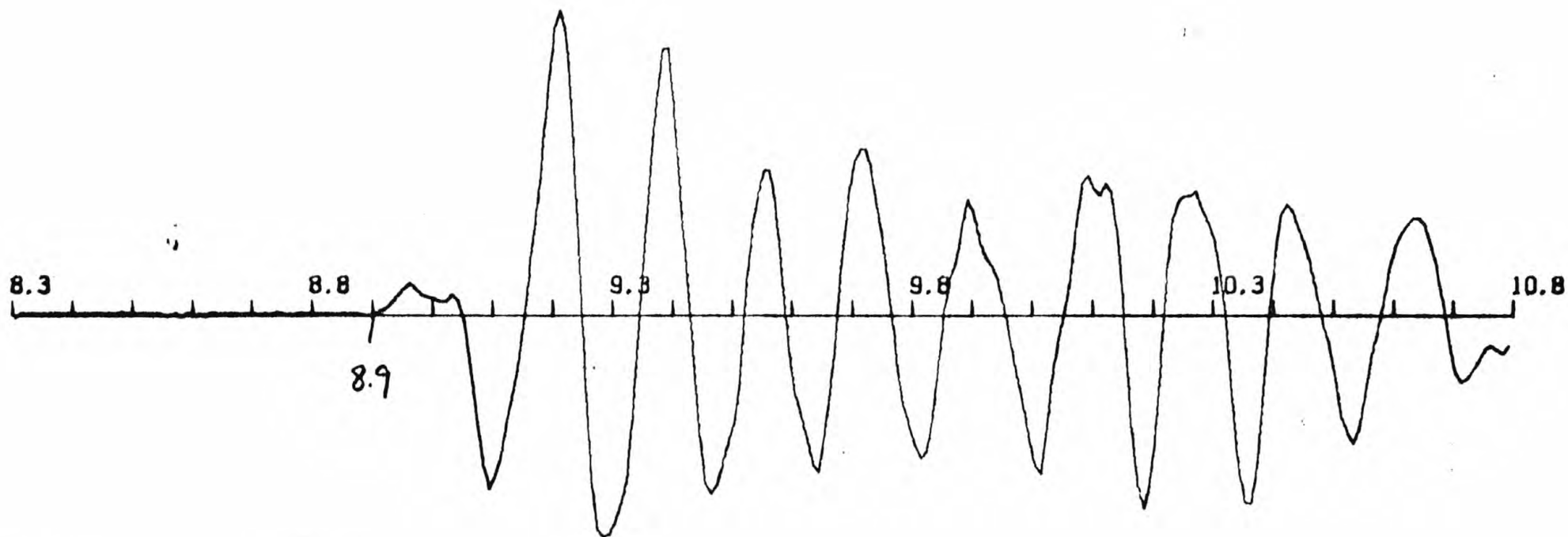
SAUDI REFRACTION PROFILE

SHOT POINT 6'

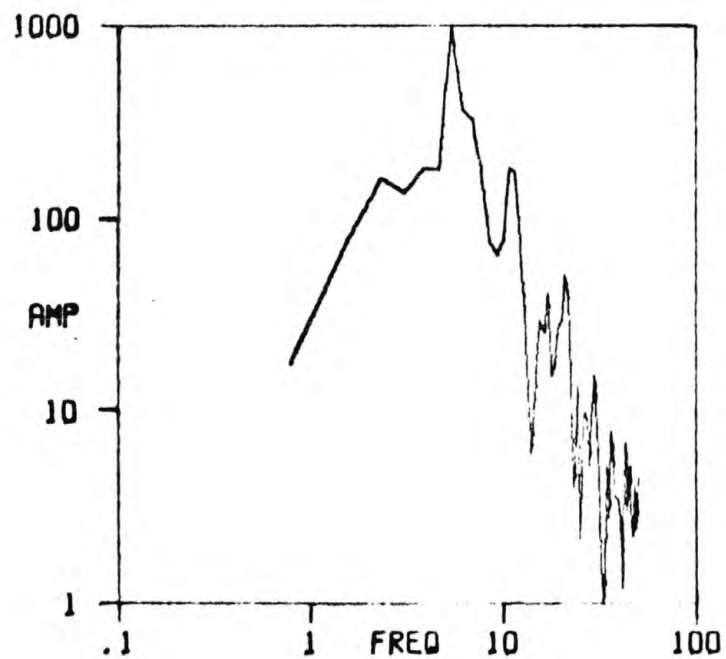
RECORDER LOCATION 906

DISTANCE FROM SHOT (KM) = 42.390

TSCALE (CM/SEC) = 10.0



78L



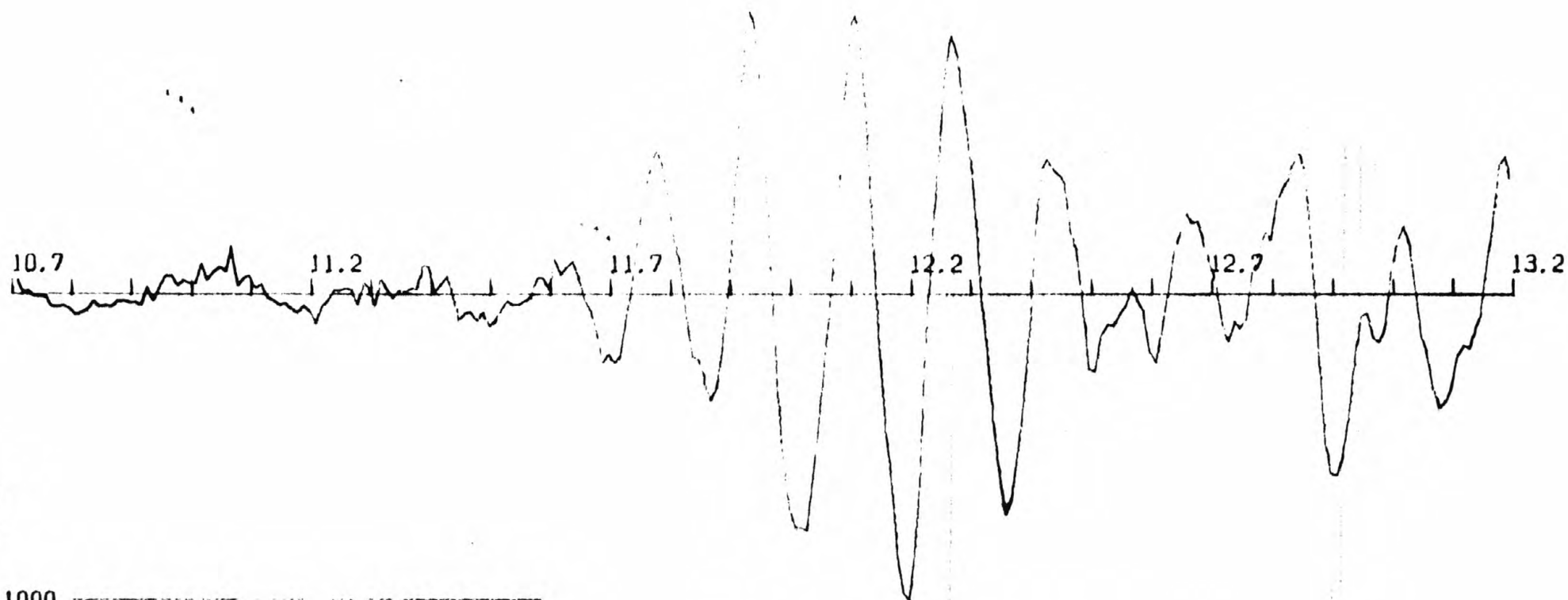
SAUDI REFRACTION PROFILE

SHOT POINT 6

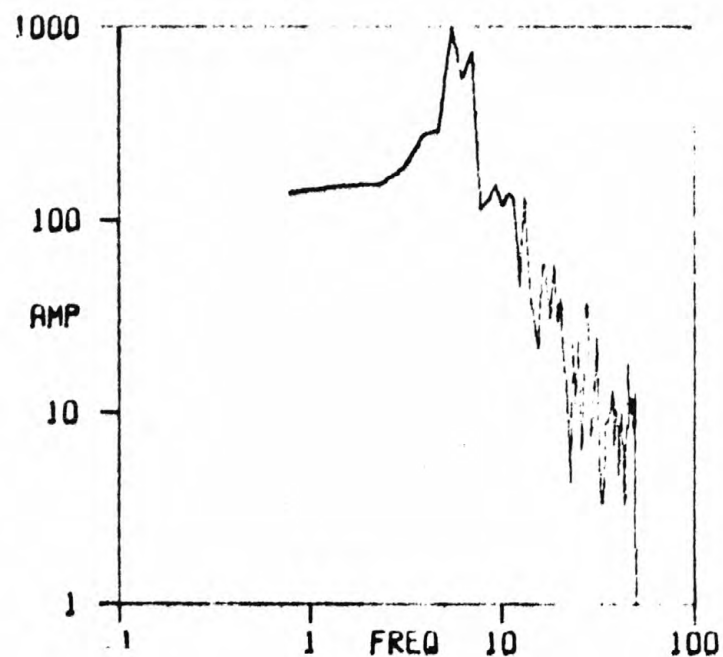
RECORDER LOCATION 905

DISTANCE FROM SHOT (KM) = 43.649

TSCALE (CM/SEC) = 10.0



181



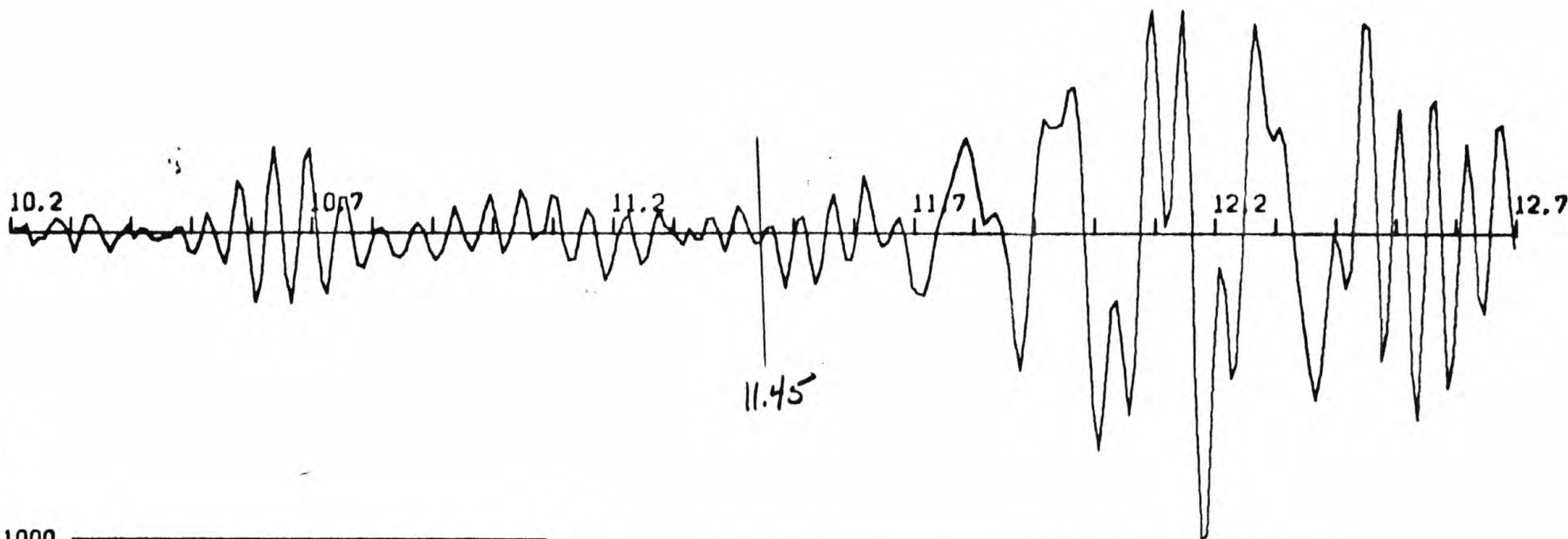
SAUDI REFRACTION PROFILE

SHOT POINT 6

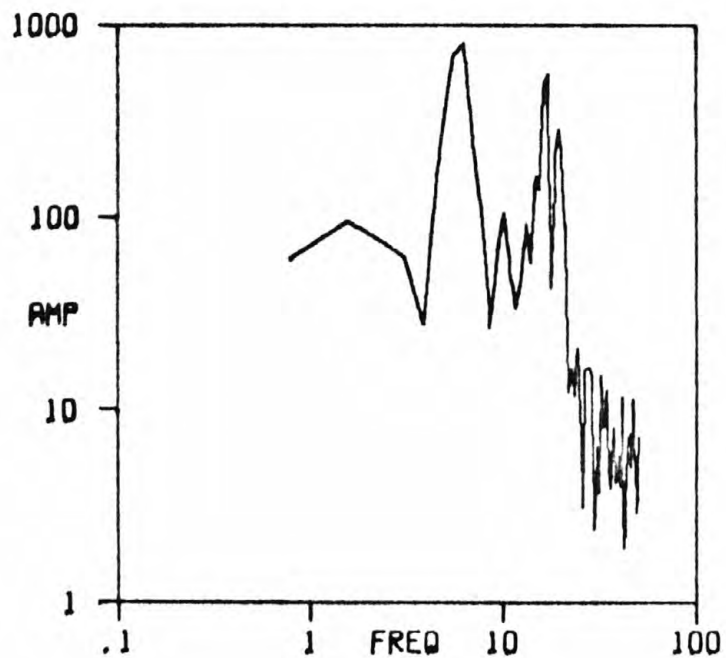
RECORDER LOCATION 899

DISTANCE FROM SHOT (KM) = 60.949

TSCALE (CM/SEC) = 10.0



782



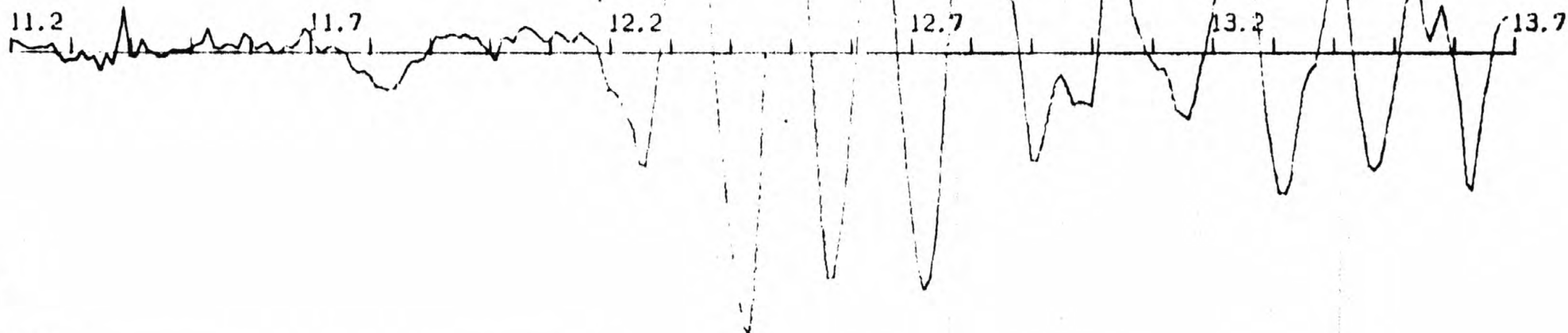
SAUDI REFRACTION PROFILE 15,20 BP

SHOT POINT 6

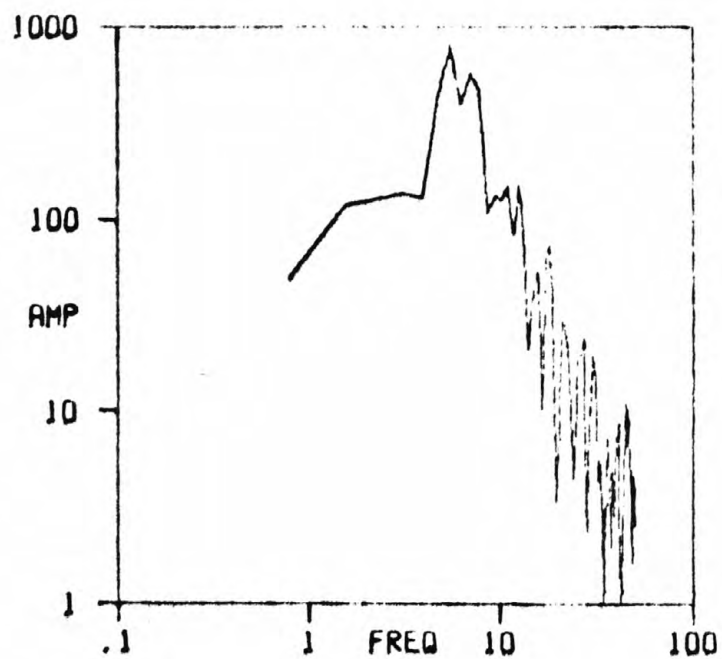
RECORDER LOCATION 899

DISTANCE FROM SHOT (KM) = 60.949

TSCALE (CM/SEC) = 10.0



783



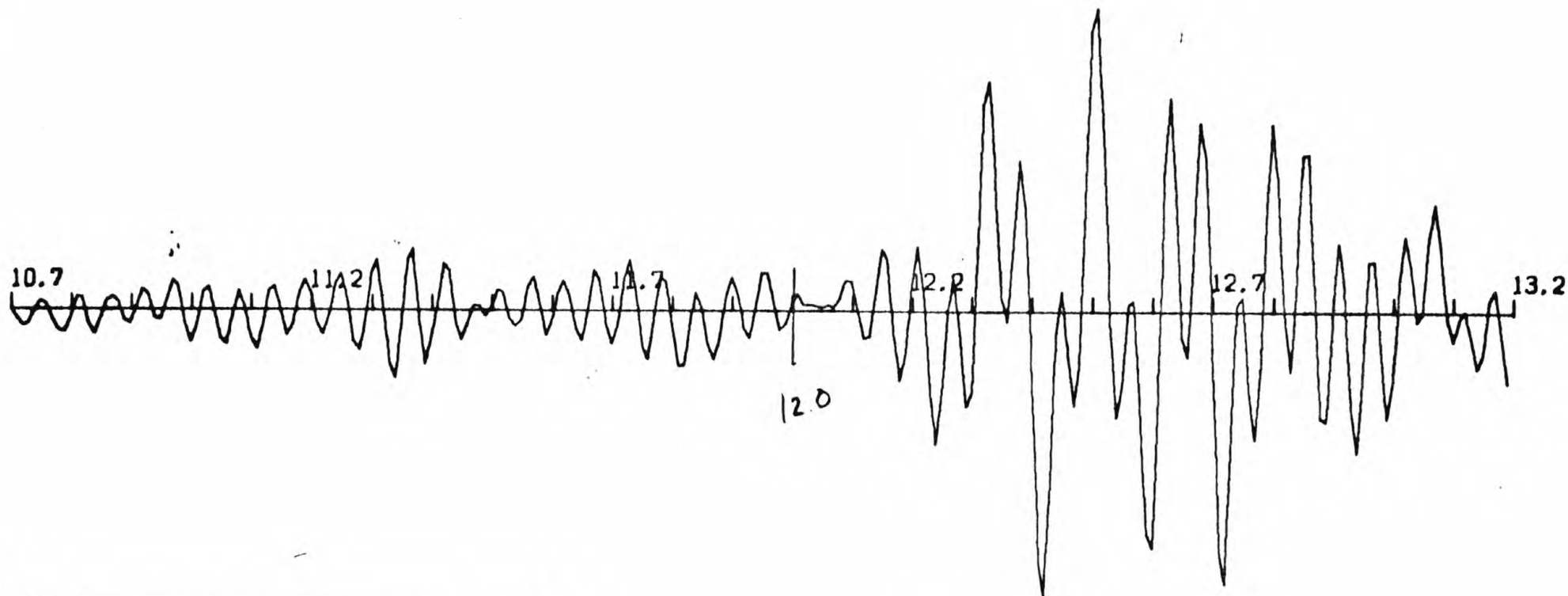
SAUDI REFRACTION PROFILE.

SHOT POINT 6

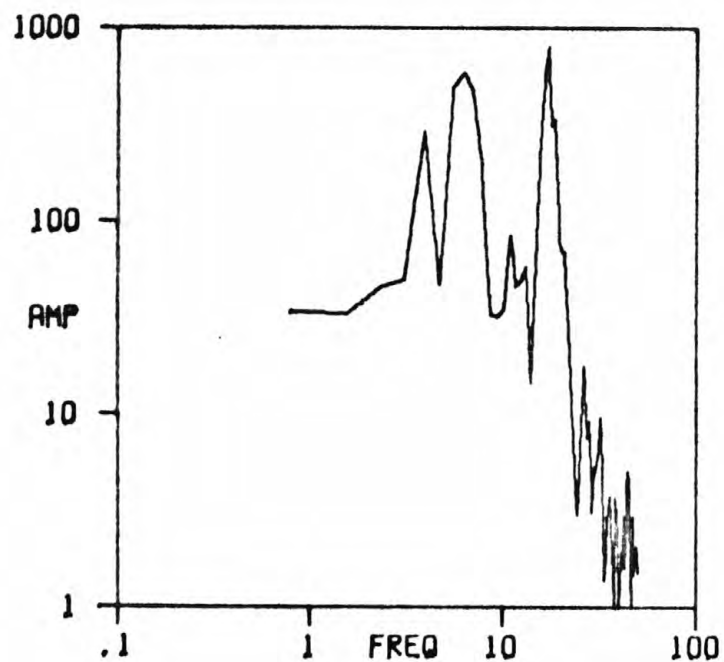
RECORDER LOCATION 897

DISTANCE FROM SHOT (KM) = 64.022

TSCALE (CM/SEC) = 10.0



784



SAUDI REFRACTION PROFILE 15,20 BP

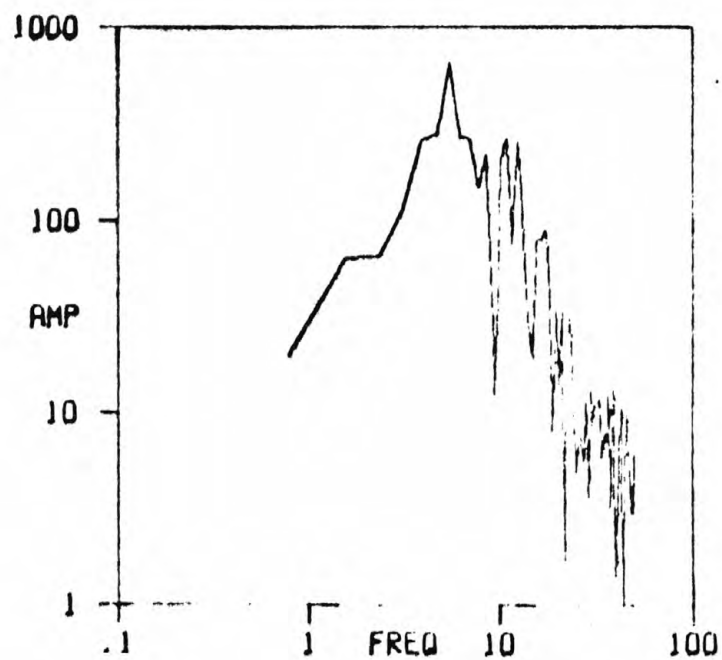
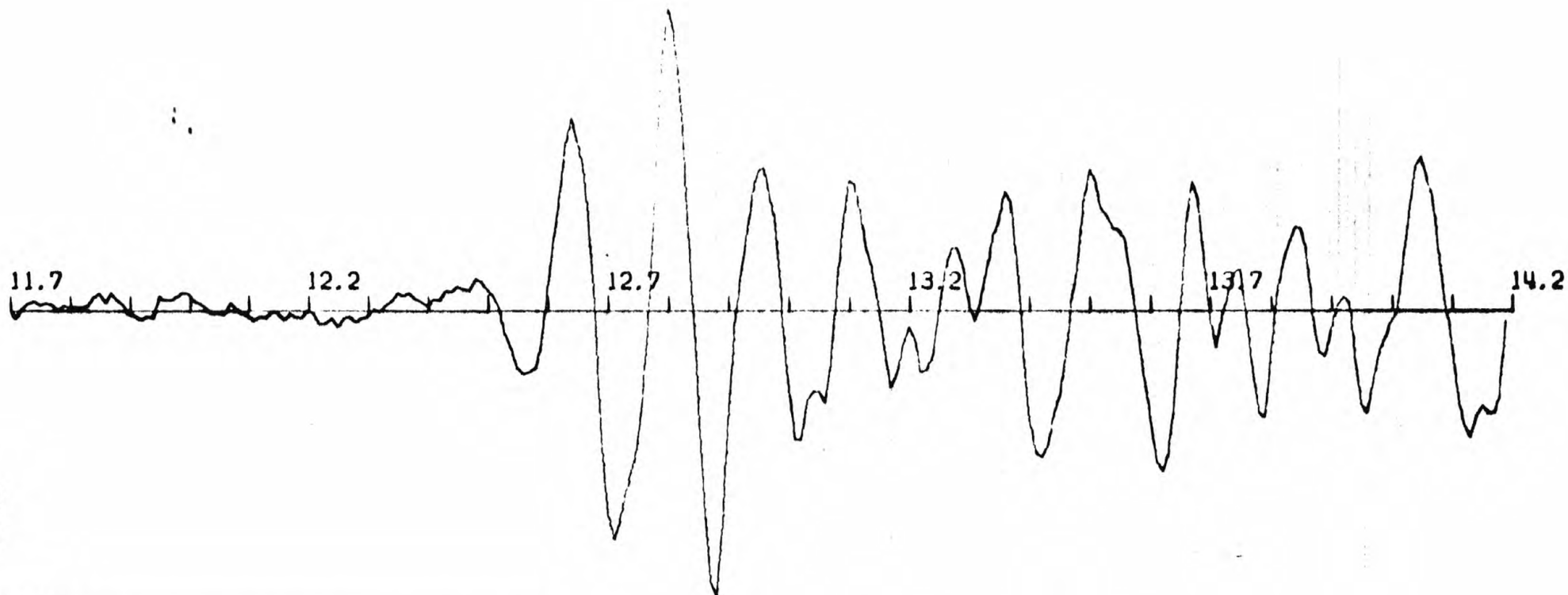
SHOT POINT 6

RECORDER LOCATION 897

DISTANCE FROM SHOT (KM) = 64.022

TSCALE (CM/SEC) = 10.0

785



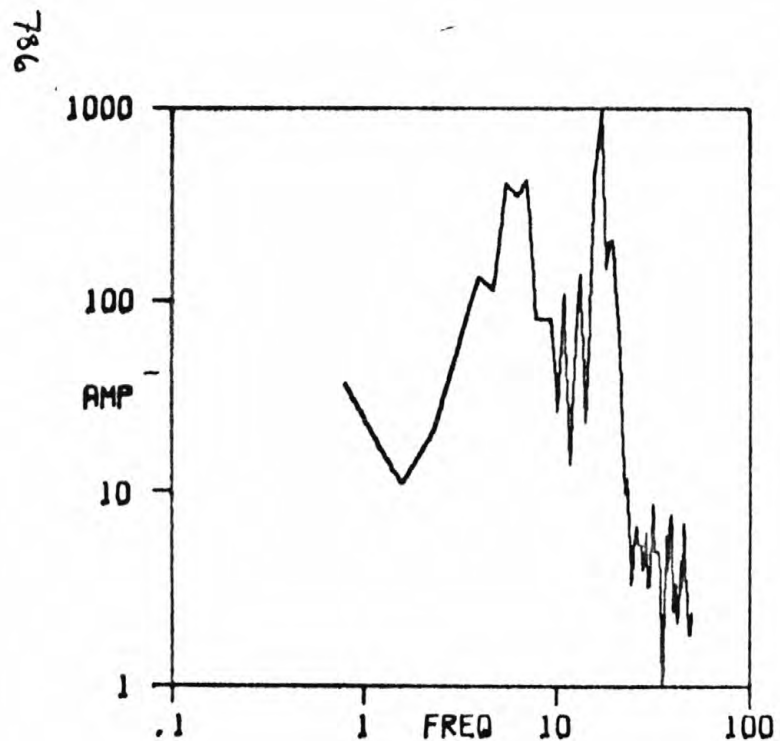
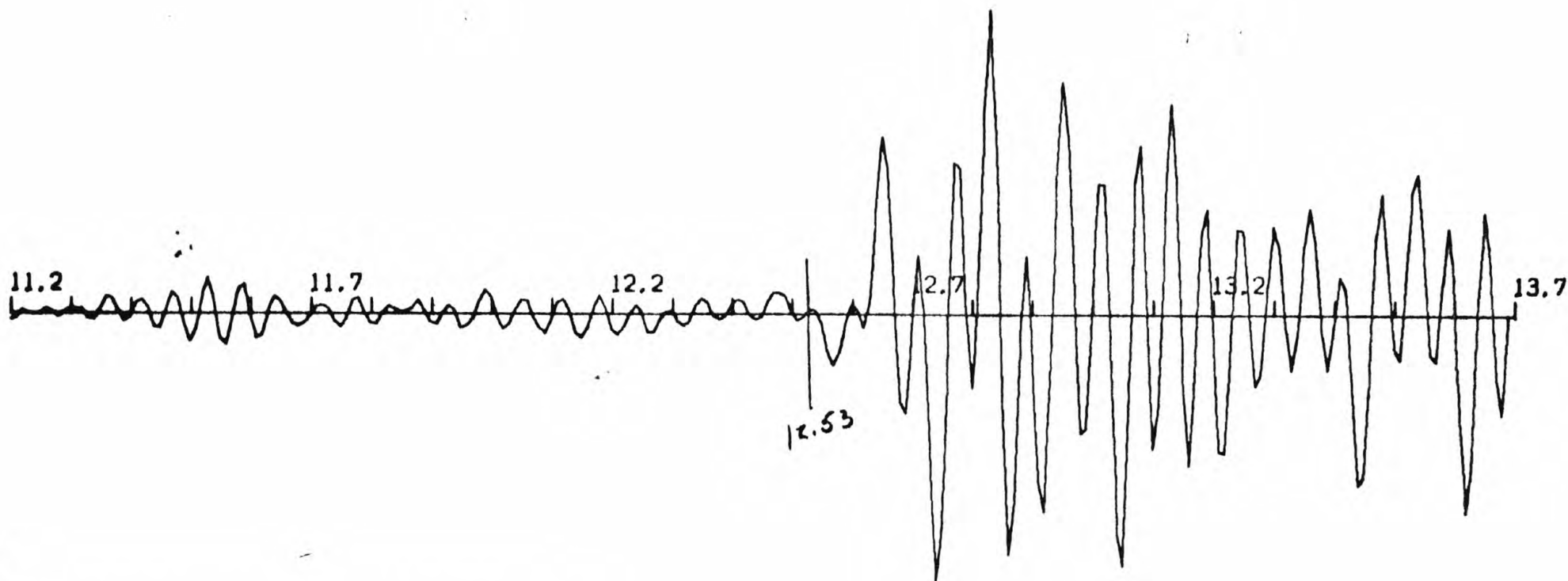
SAUDI REFRACTION PROFILE

SHOT POINT 6

RECORDER LOCATION 896

DISTANCE FROM SHOT (KM) = 66.661

TSCALE (CM/SEC) = 10.0



SAUDI REFRACTION PROFILE 15,20 BP

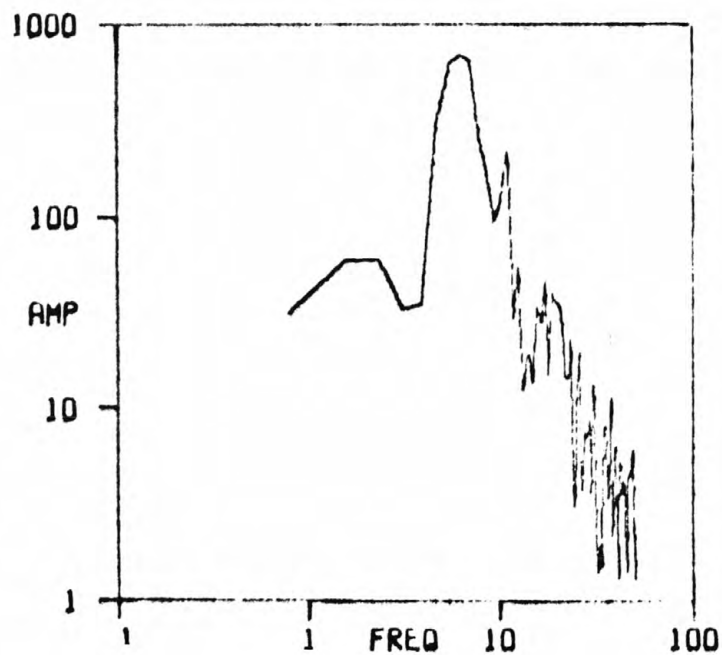
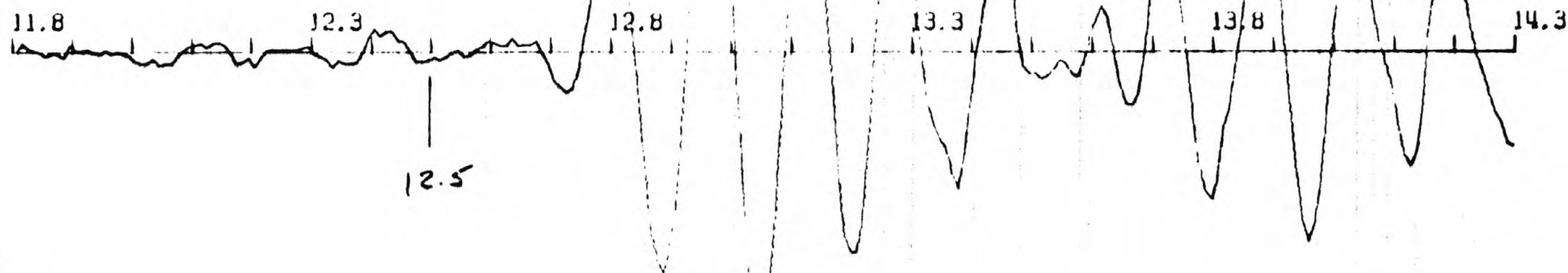
SHOT POINT 6

RECORDER LOCATION 896

DISTANCE FROM SHOT (KM) = 66.661

TSCALE (CM/SEC) = 10.0

787



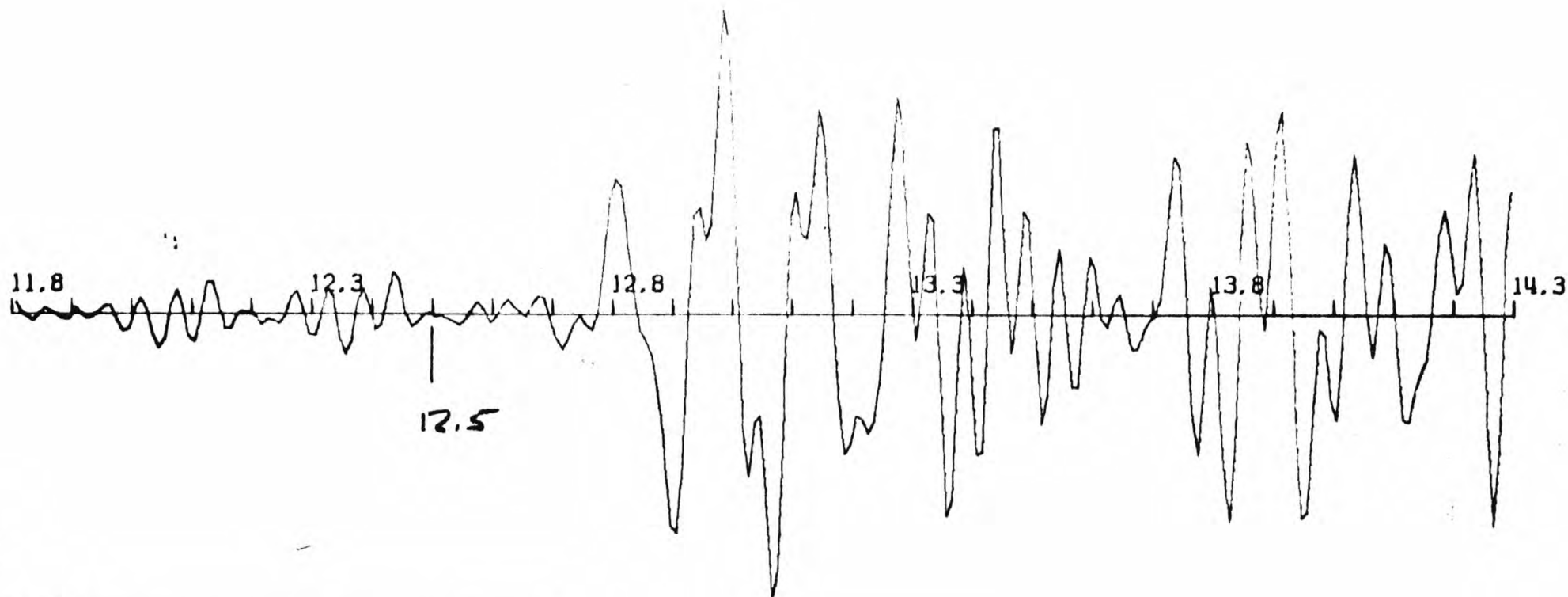
SAUDI REFRACTION PROFILE

SHOT POINT 6

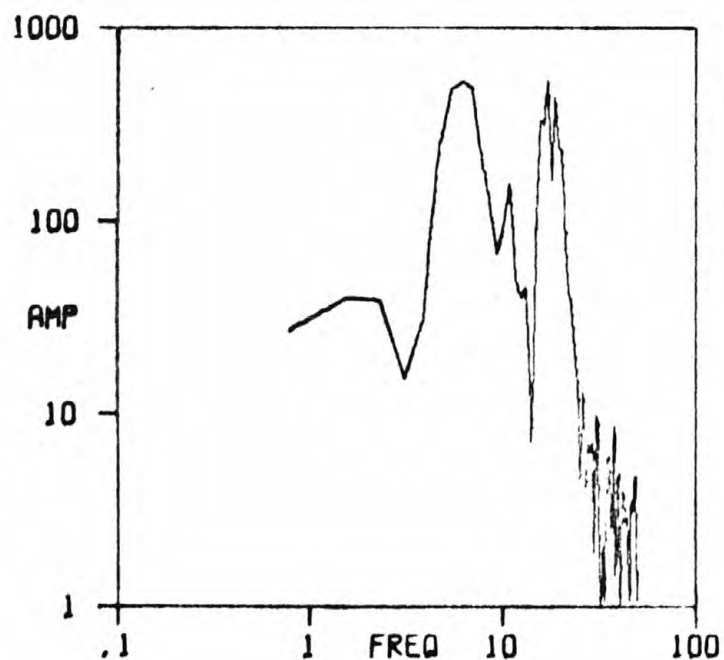
RECORDER LOCATION 895

DISTANCE FROM SHOT (KM) = 67.782

TSCALE (CM/SEC) = 10.0



788



SAUDI REFRACTION PROFILE 15,20 BP

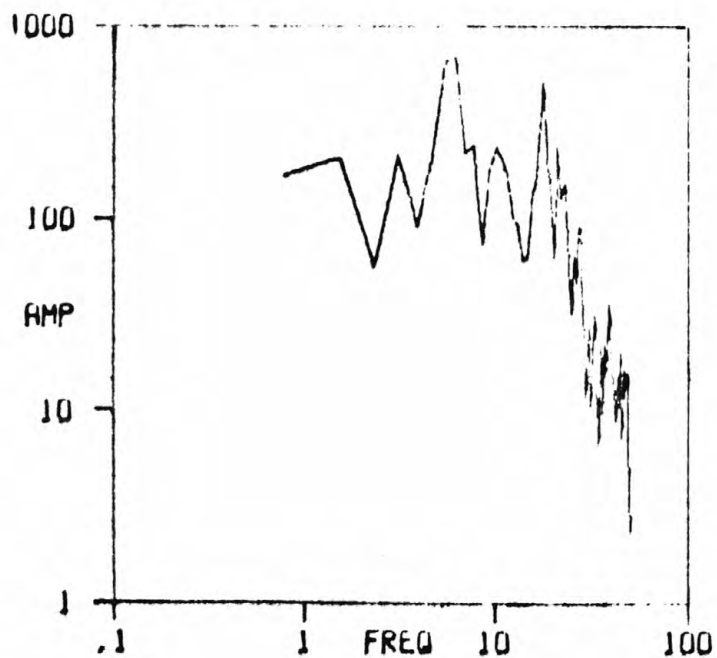
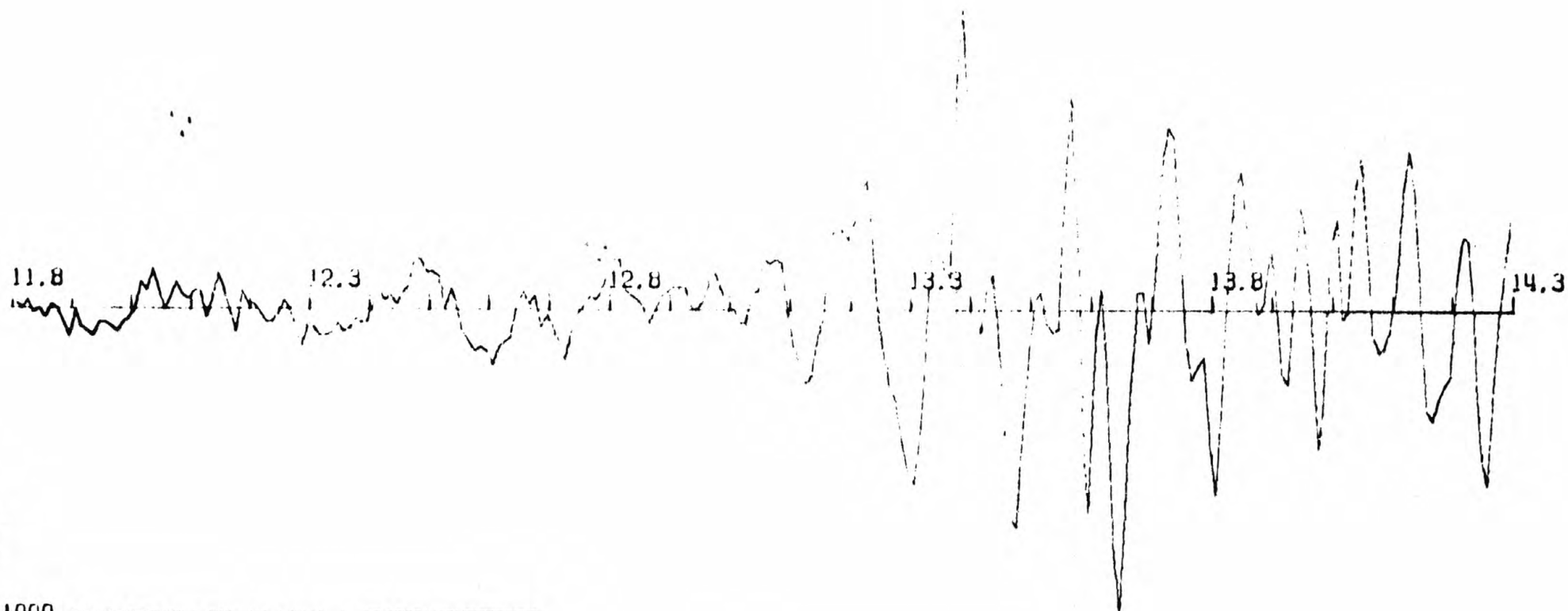
SHOT POINT 6

RECORDER LOCATION 895

DISTANCE FROM SHOT (KM) = 67.782

TSCALE (CM/SEC) = 10.0

789



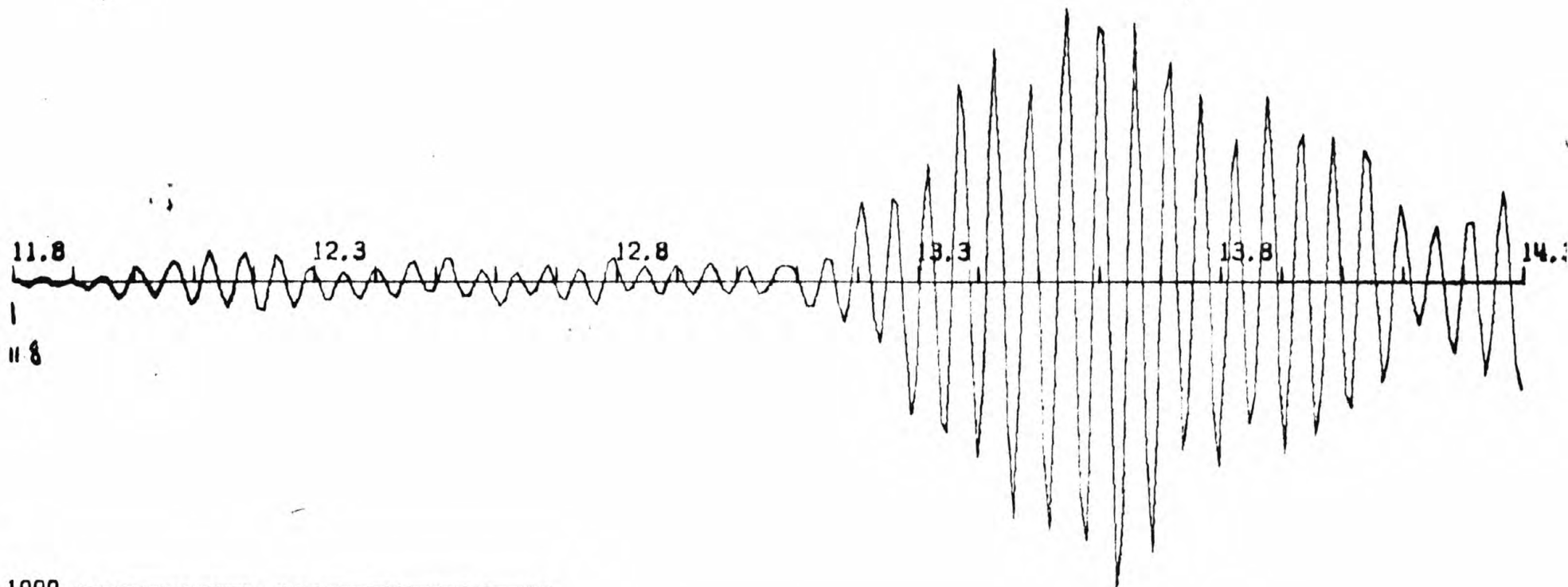
SAUDI REFRACTION PROFILE

SHOT POINT 6

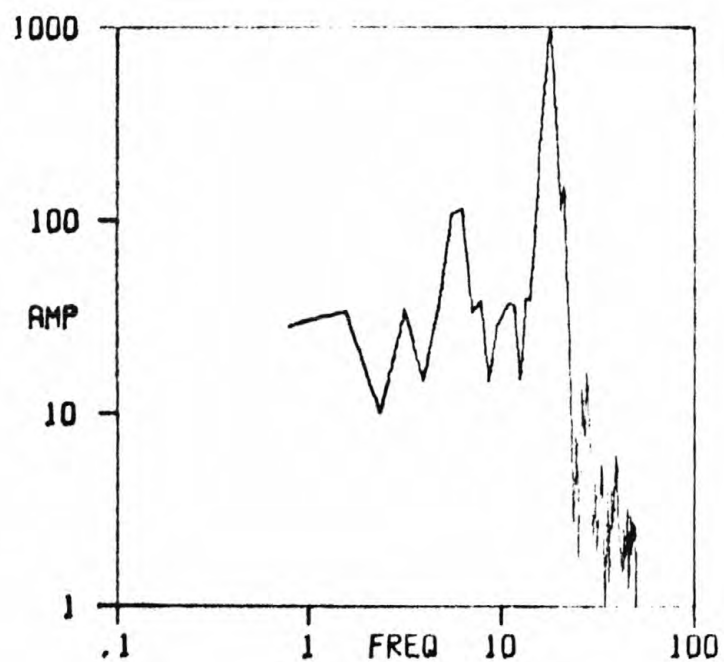
RECORDER LOCATION 694

DISTANCE FROM SHOT (KM) = 20.788

TSCALE (CM/SEC) = 10.0



790



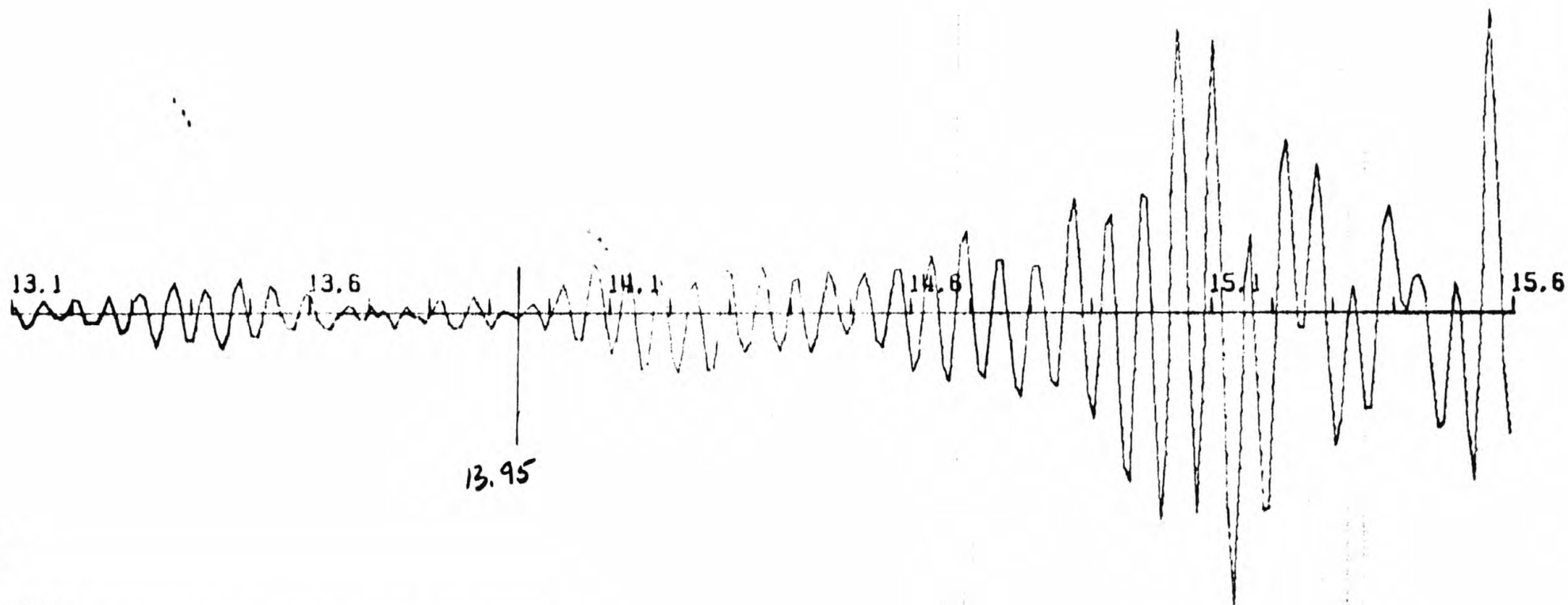
SAUDI REFRACTION PROFILE 15,20 BP

SHOT POINT 6

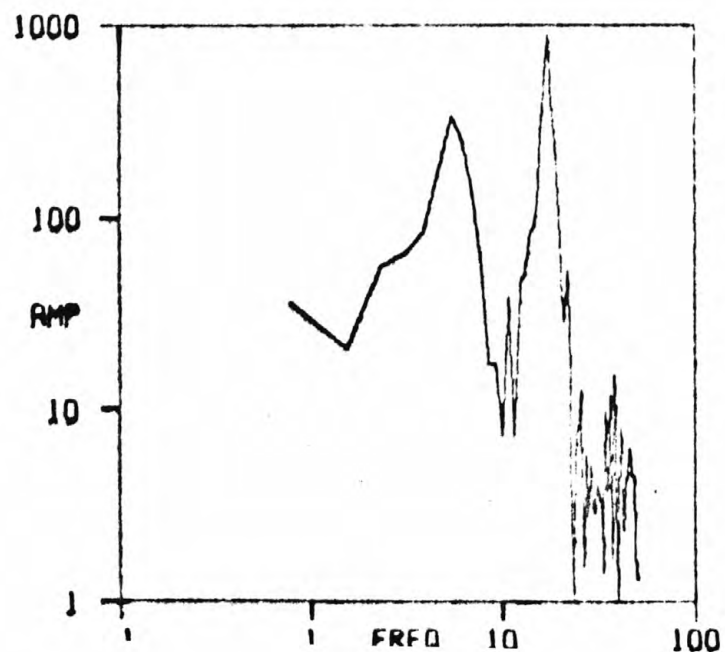
RECORDER LOCATION 894

DISTANCE FROM SHOT (KM) = 70.788

TSCALE (CM/SEC) = 10.0



16-1



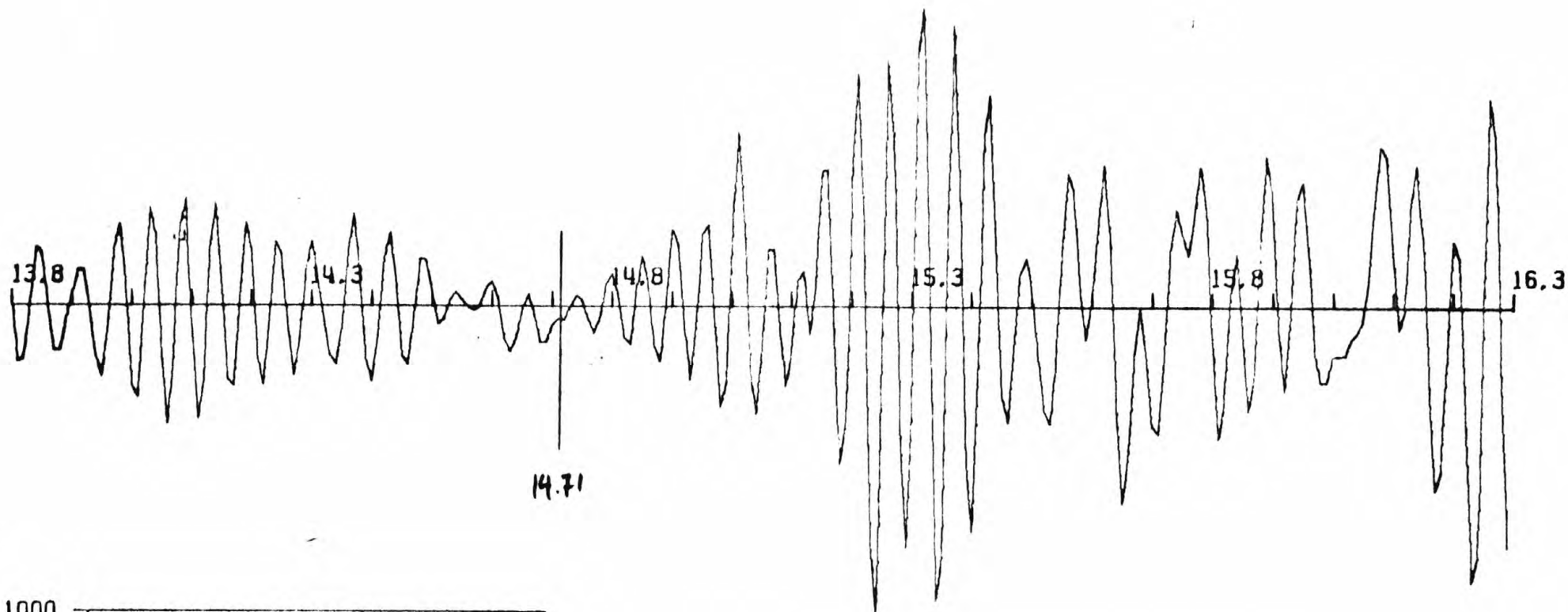
SAUDI REFRACTION PROFILE 15,20 BP

SHOT POINT 6

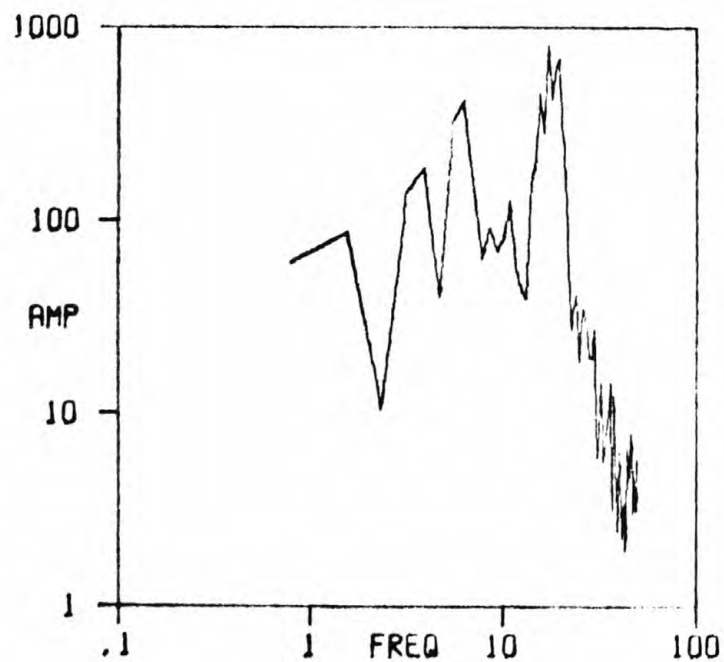
RECORDER LOCATION 889

DISTANCE FROM SHOT (KM) = 84.031

TSCALE (CM/SEC) = 10.0



792



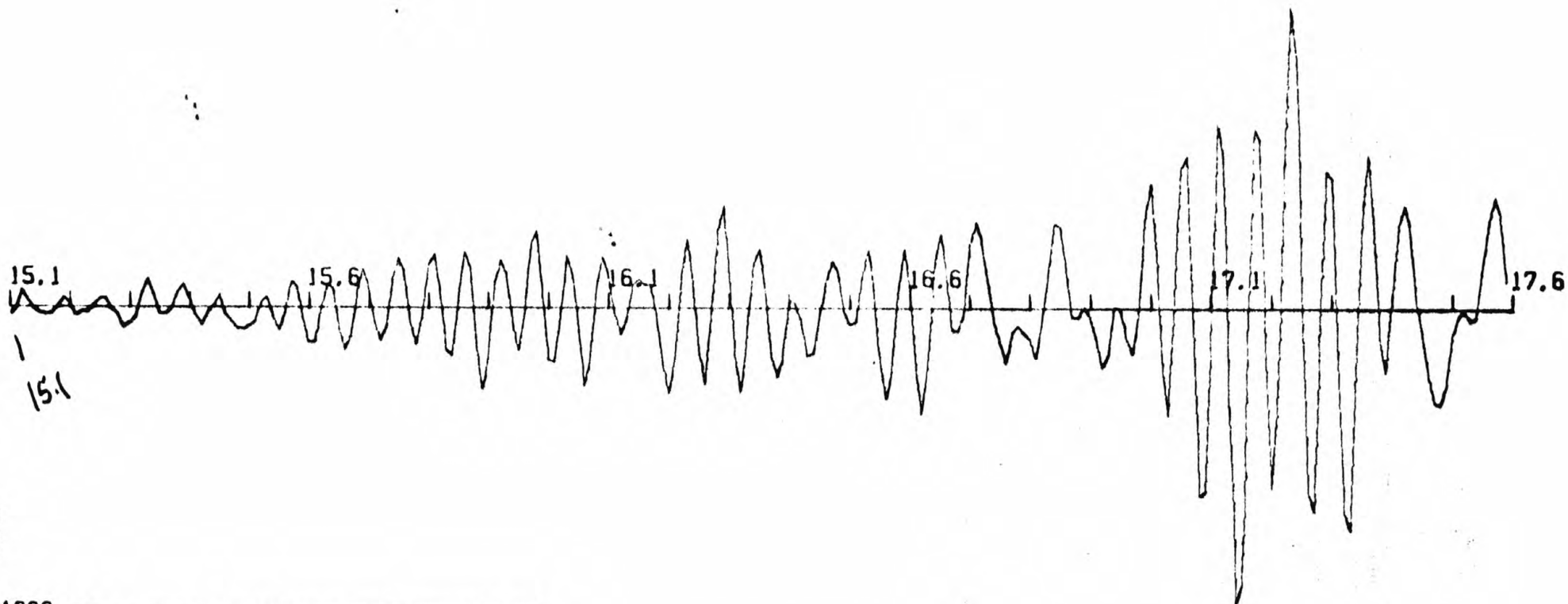
SAUDI REFRACTION PROFILE 15,20 BP

SHOT POINT 6

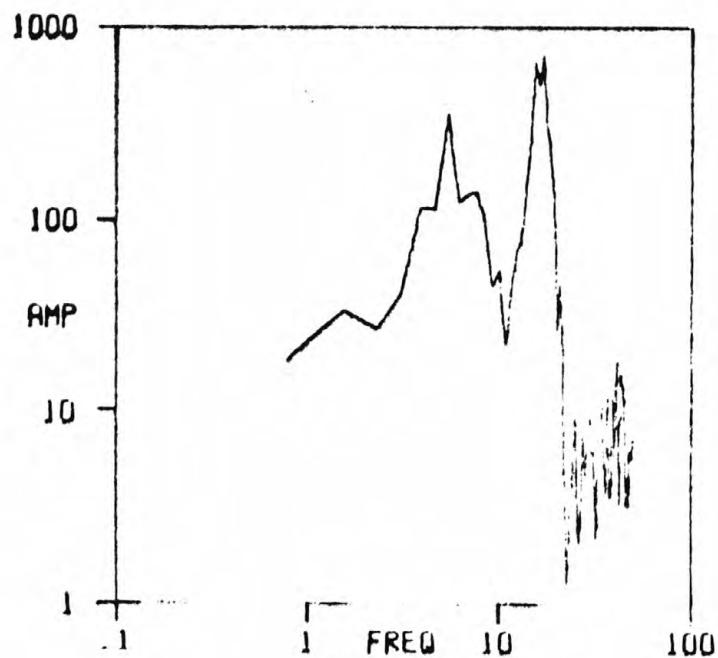
RECORDER LOCATION 888

DISTANCE FROM SHOT (KM) = 88.208

TSCALE (CM/SEC) = 10.0



793



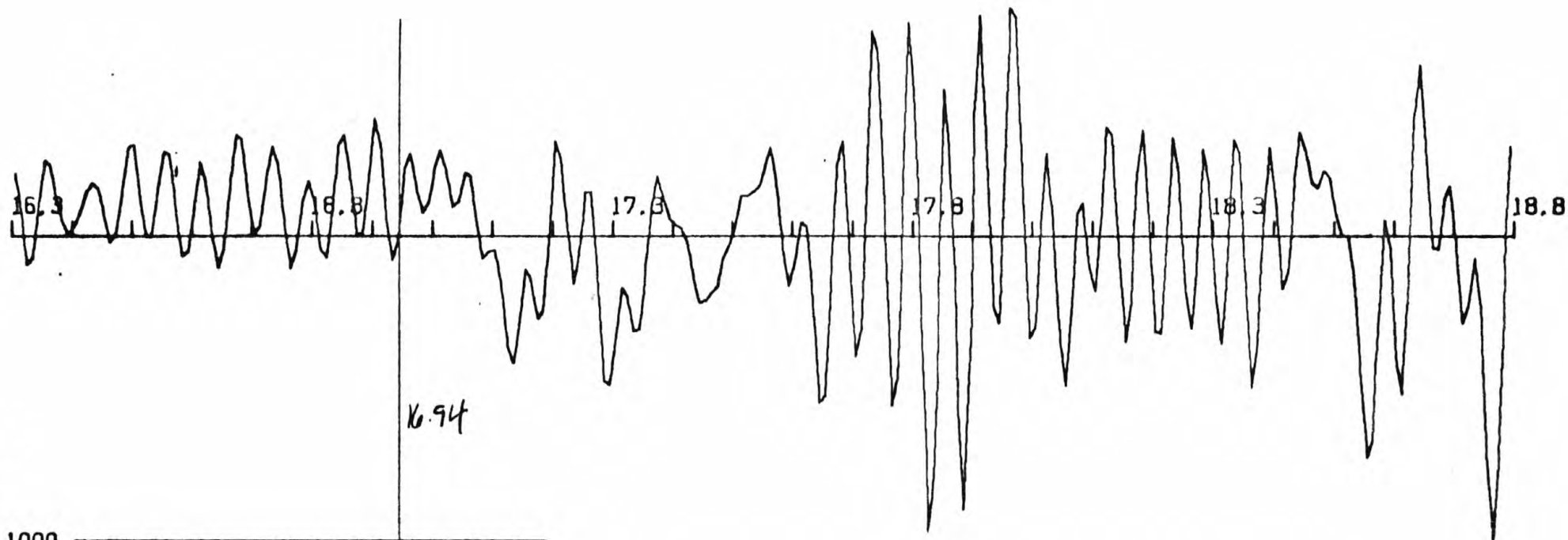
SAUDI REFRACTION PROFILE 15,20 BP

SHOT POINT 6

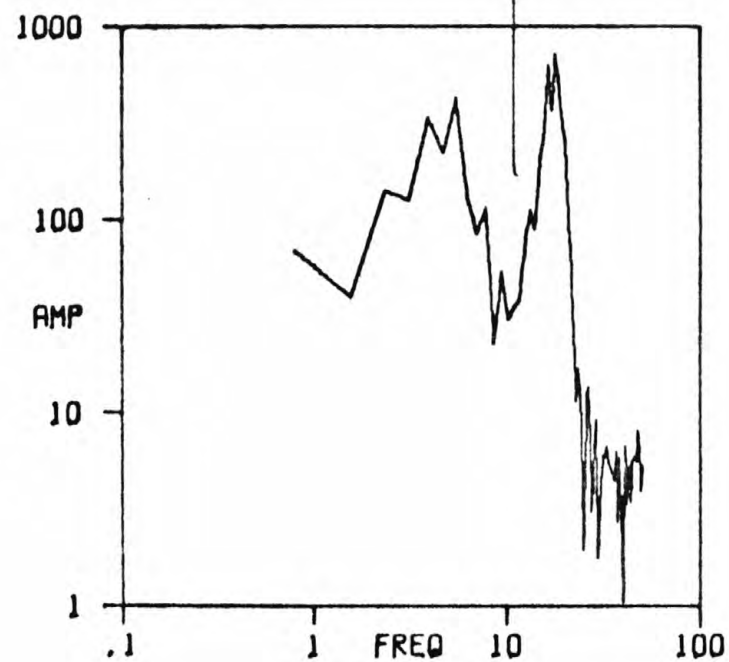
RECORDER LOCATION 812

DISTANCE FROM SHOT (KM) = 96.428

TSCALE (CM/SEC) = 10.0



794



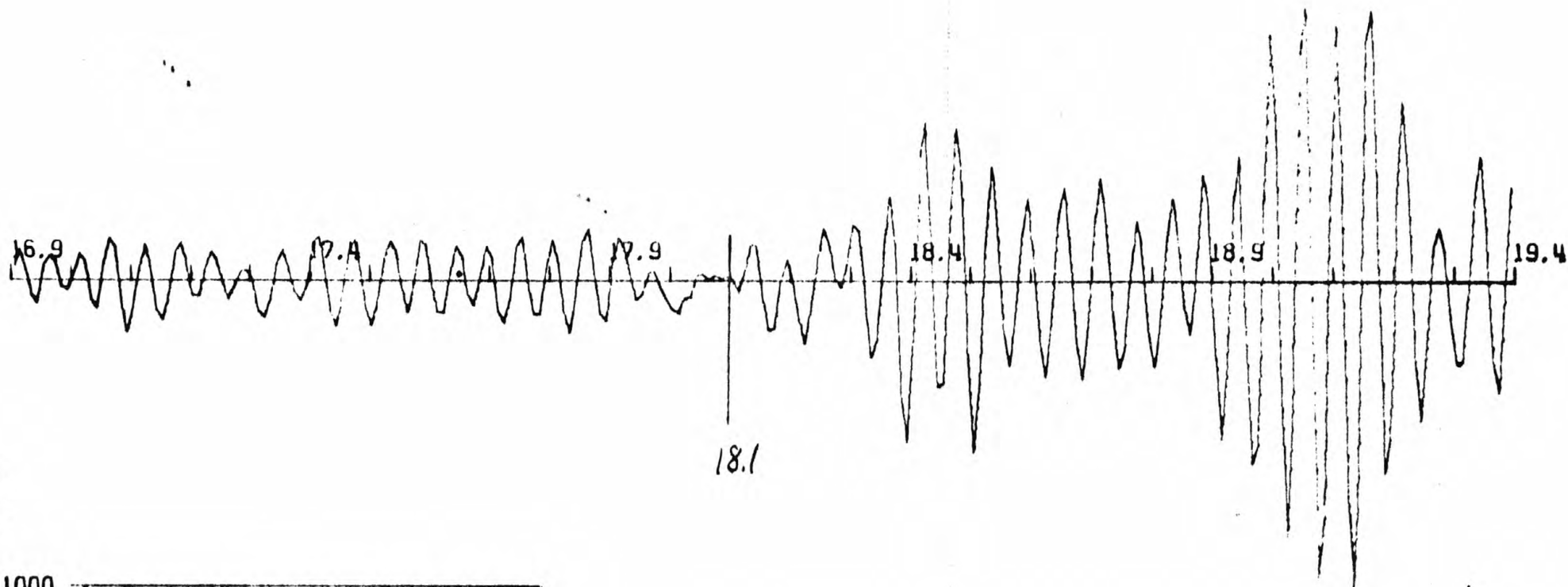
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 6

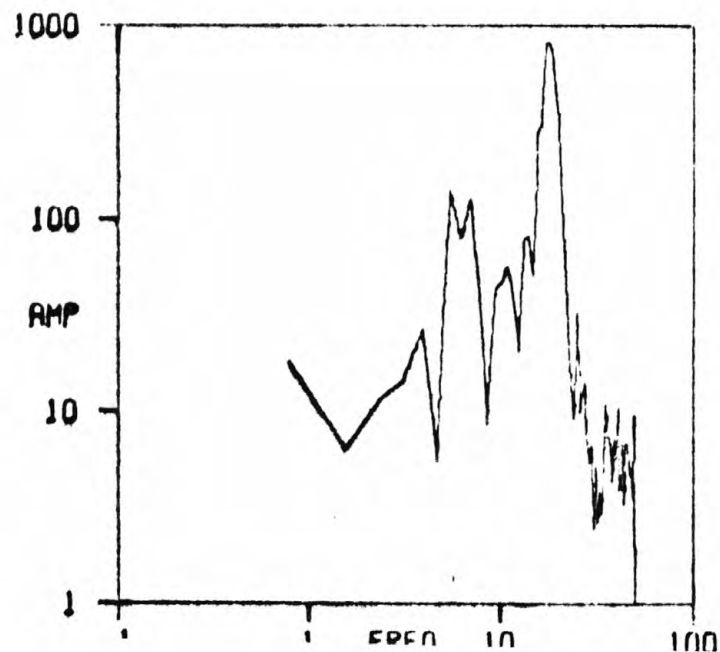
RECORDER LOCATION 810

DISTANCE FROM SHOT (KM) = 103.776

TSCALE (CM/SEC) = 10.0



795



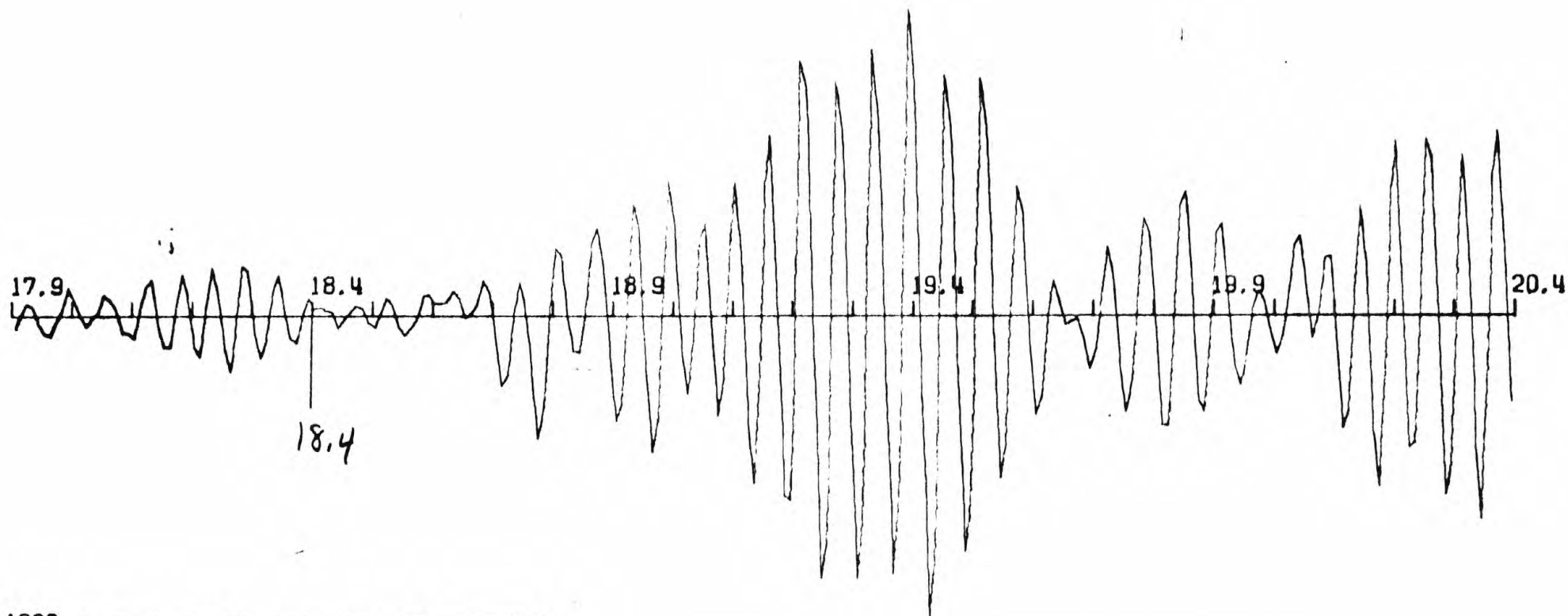
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 6

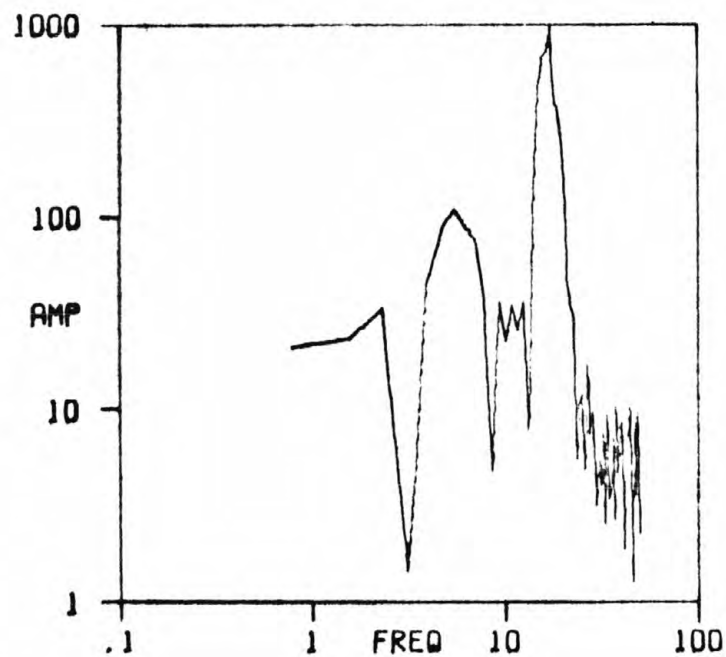
RECORDER LOCATION 807

DISTANCE FROM SHOT (KM) = 113.014

TSCALE (CM/SEC) = 10.0



796



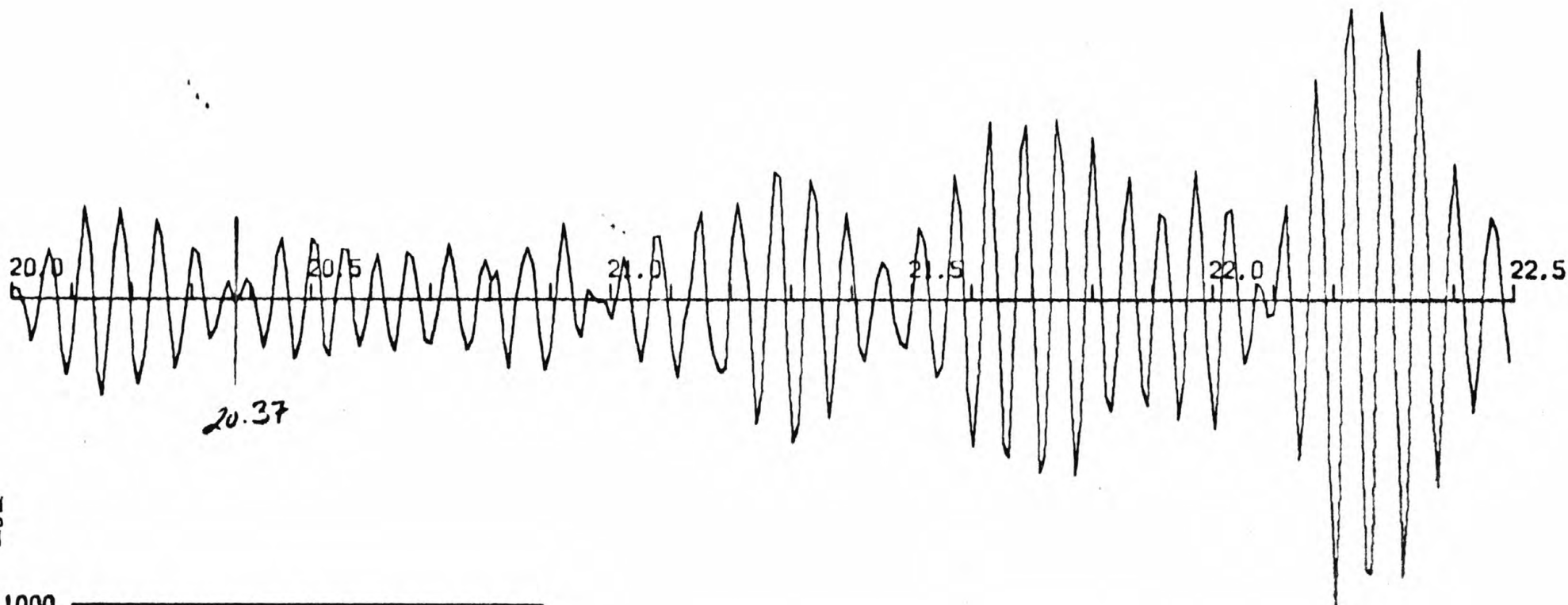
SAUDI REFRACTION PROFILE 15,20 BP

SHOT POINT 6

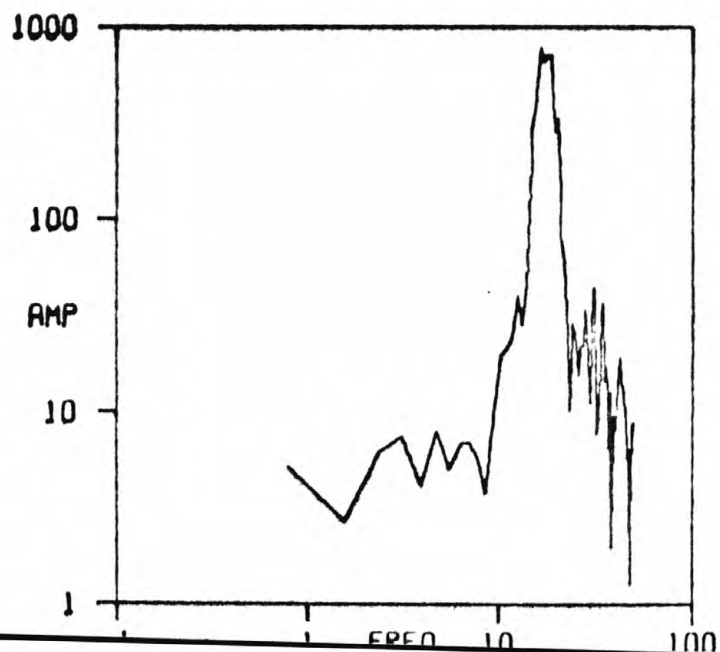
RECORDER LOCATION 801

DISTANCE FROM SHOT (KM) = 124.835

TSCALE (CM/SEC) = 10.0



Lb1



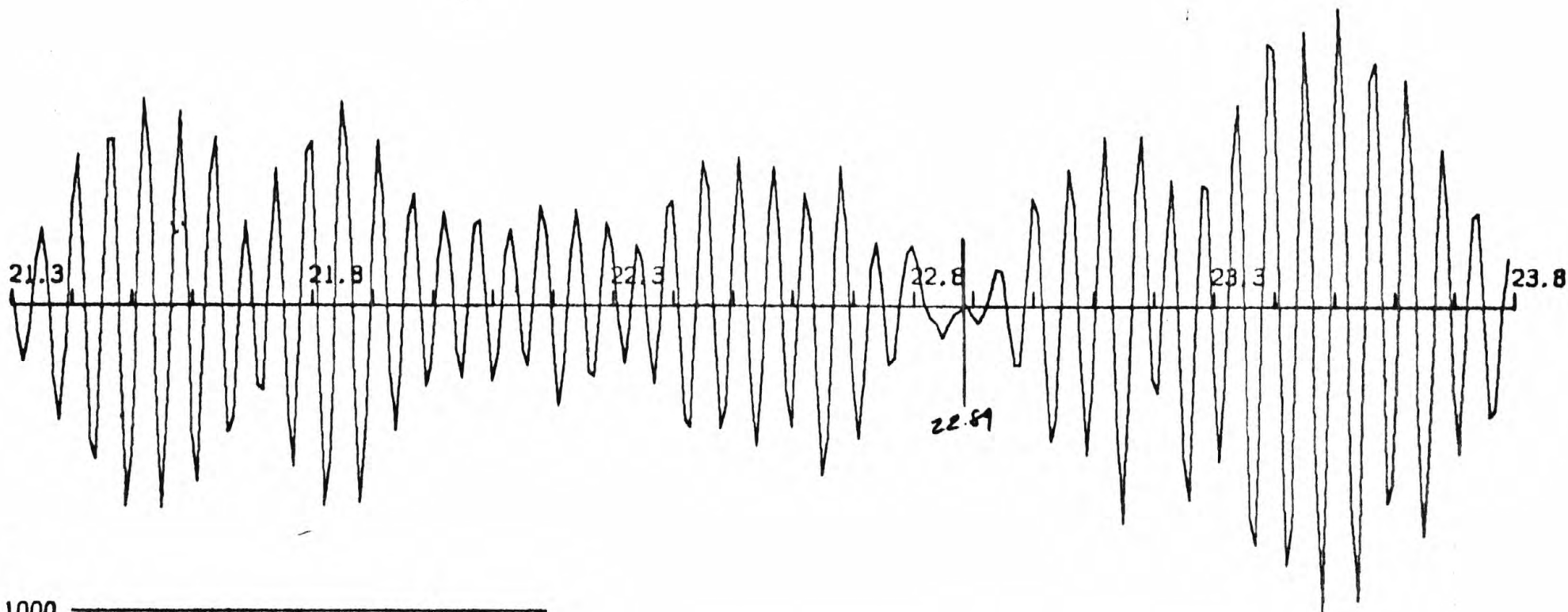
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 6

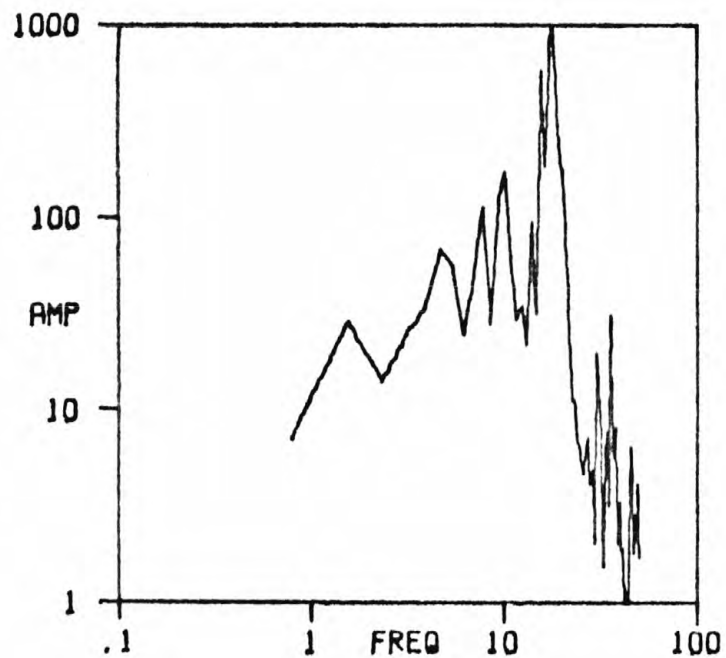
RECORDER LOCATION 699

DISTANCE FROM SHOT (KM) = 131.784

TSCALE (CM/SEC) = 10.0



867



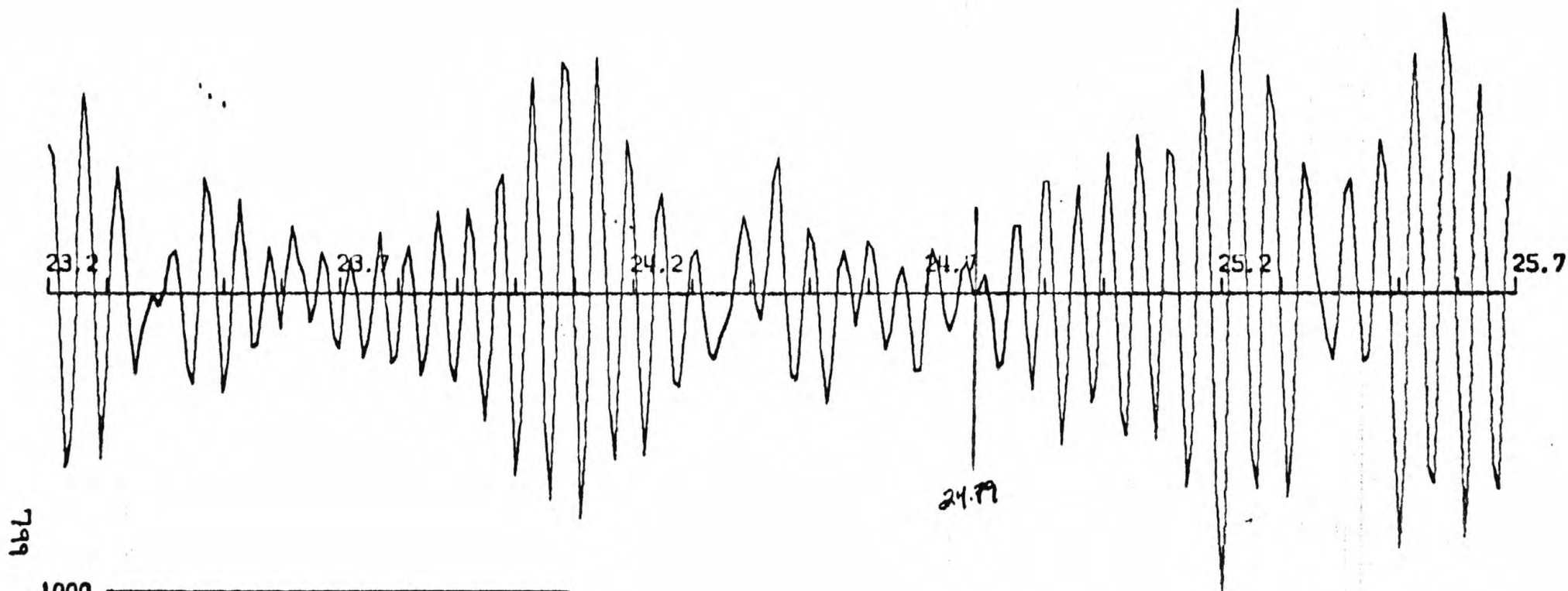
SAUDI REFRACTION PROFILE 15,20 BP

SHOT POINT 6

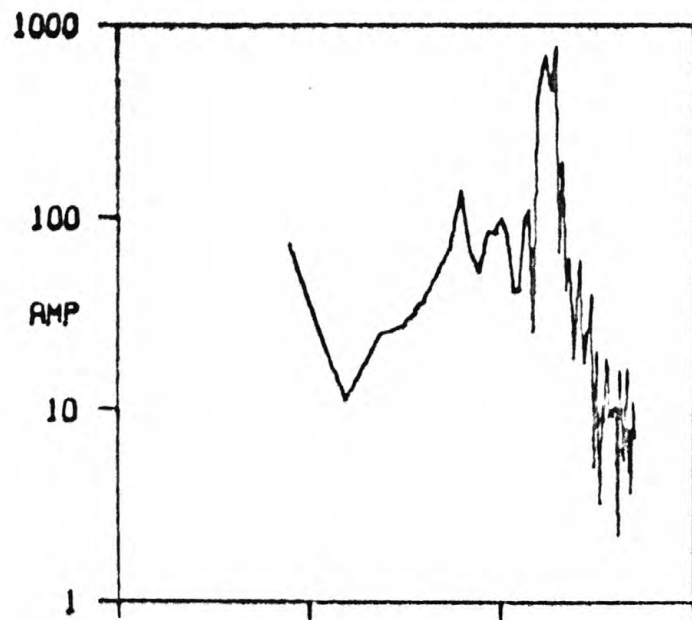
RECORDER LOCATION 966

DISTANCE FROM SHOT (KM) = 151.446

TSCALE (CM/SEC) = 10.0



799



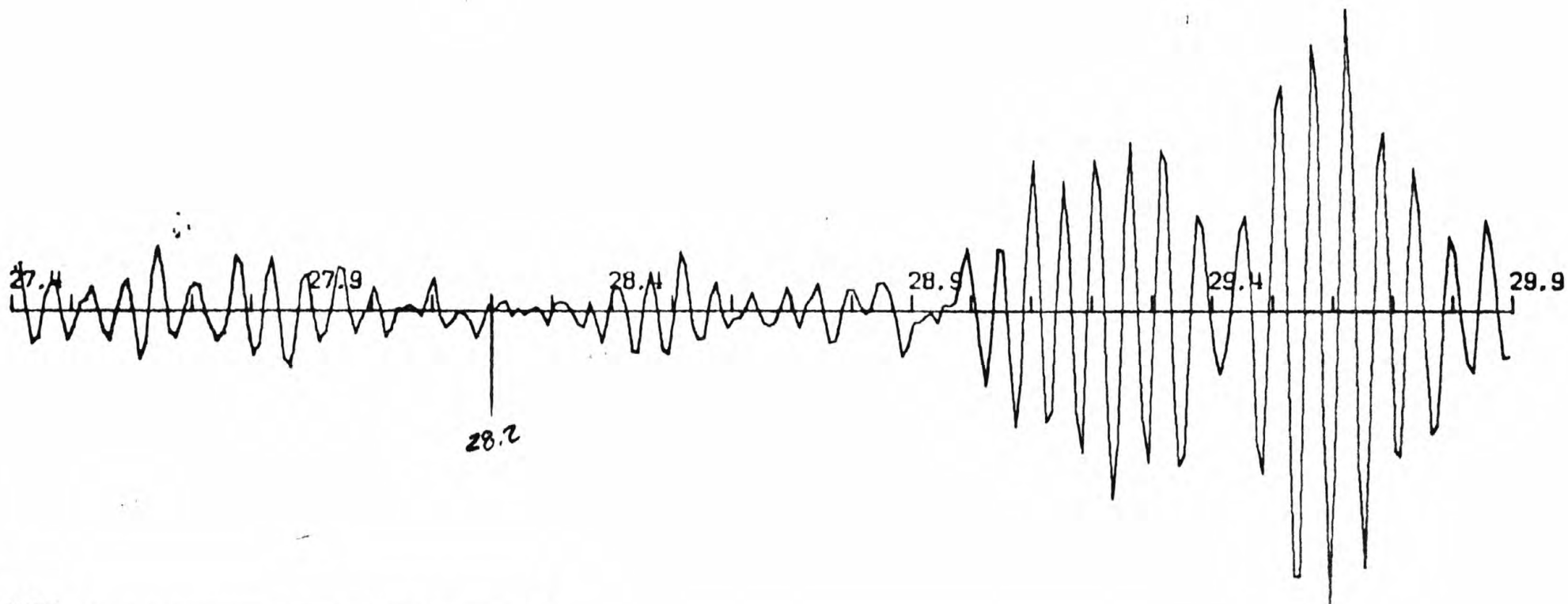
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 6

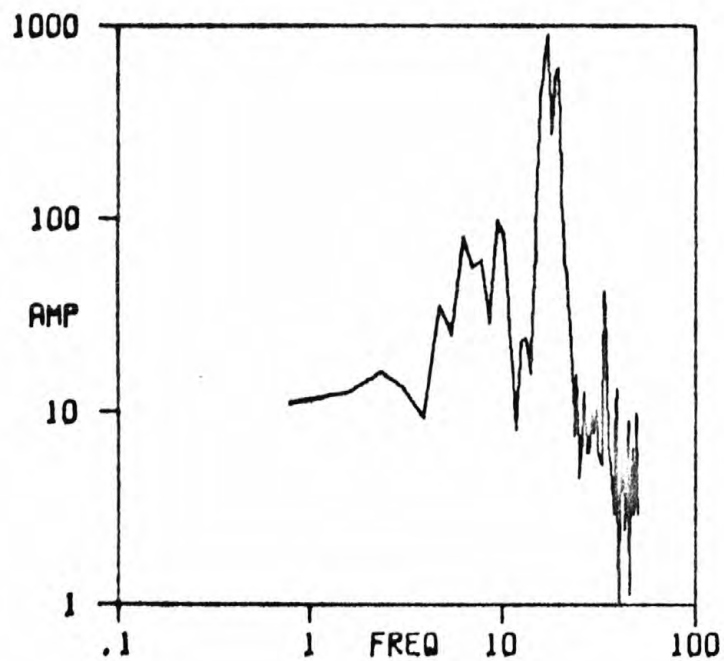
RECORDER LOCATION 962

DISTANCE FROM SHOT (KM) = 163.082

TSCALE (CM/SEC) = 10.0



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SAUDI REFRACTION PROFILE 15,20 BP

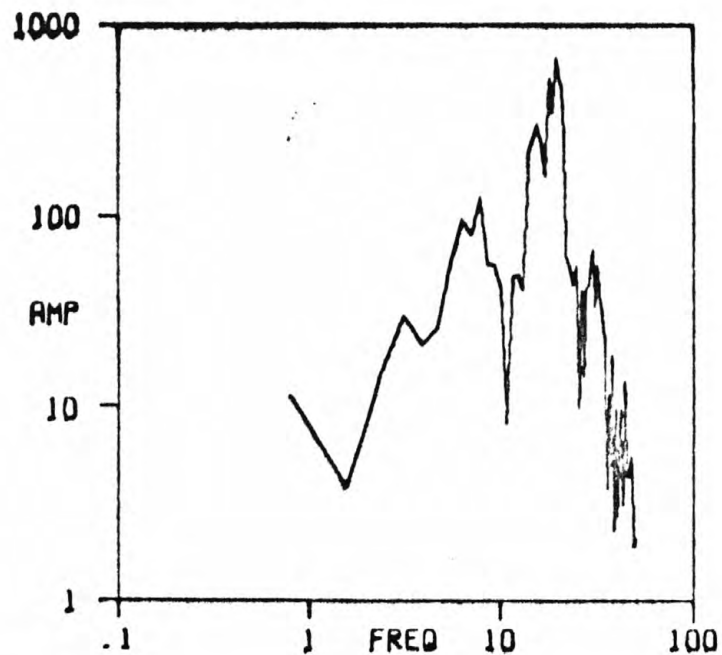
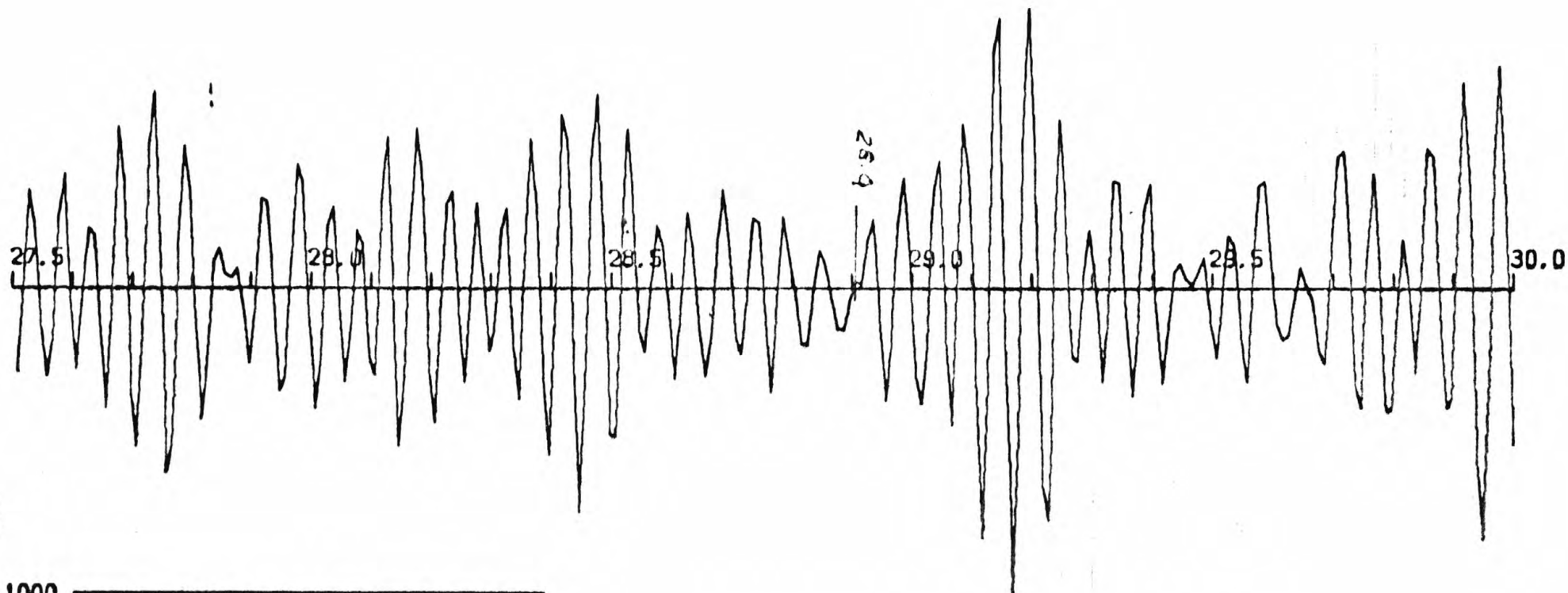
SHOT POINT 6

RECORDER LOCATION 956

DISTANCE FROM SHOT (KM) = 182.077

TSCALE (CM/SEC) = 10.0

102



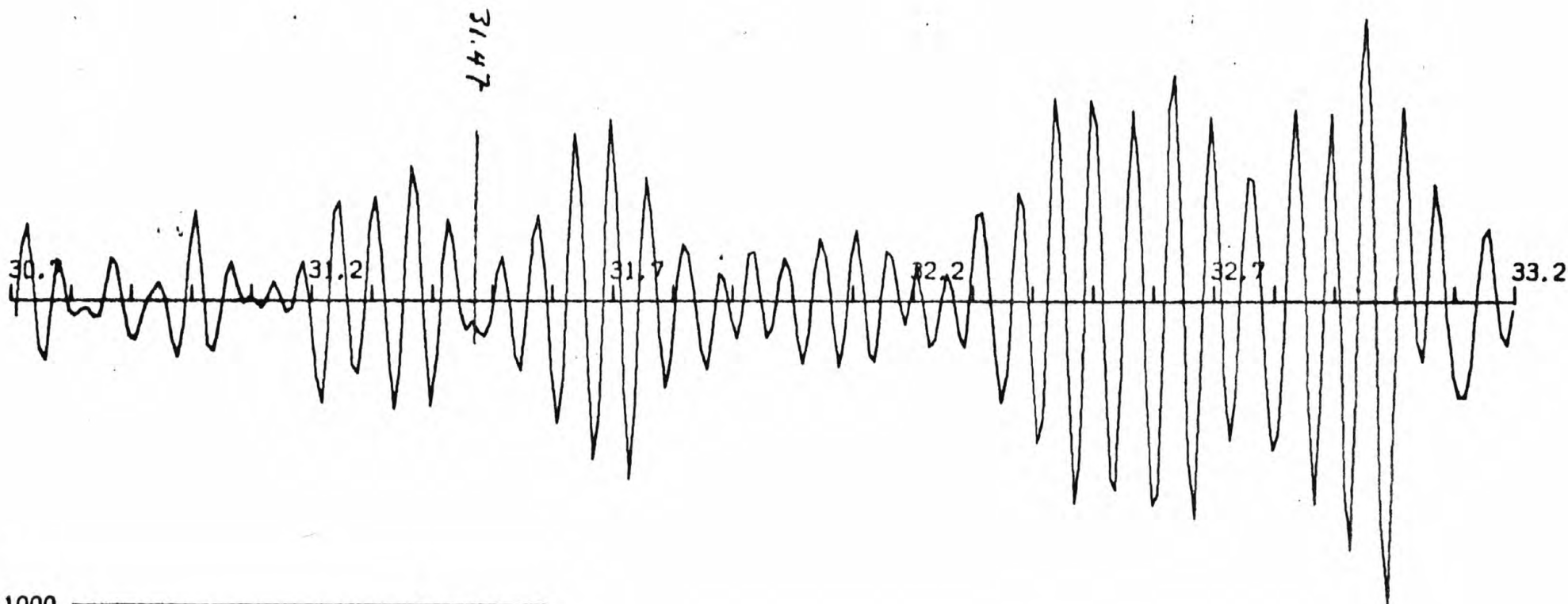
SAUDI REFRACTION PROFILE 15,20 BP

SHOT POINT 6

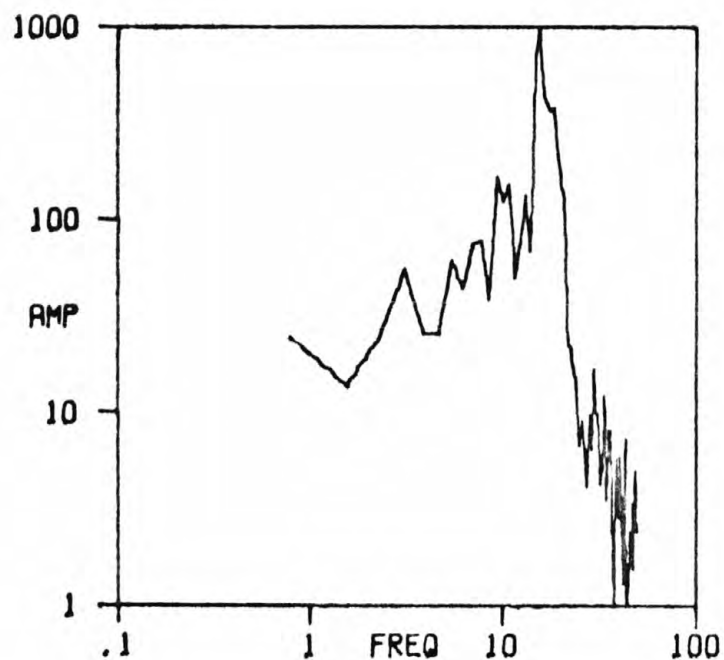
RECORDER LOCATION 624

DISTANCE FROM SHOT (KM) = 188.752

TSCALE (CM/SEC) = 10.0



802



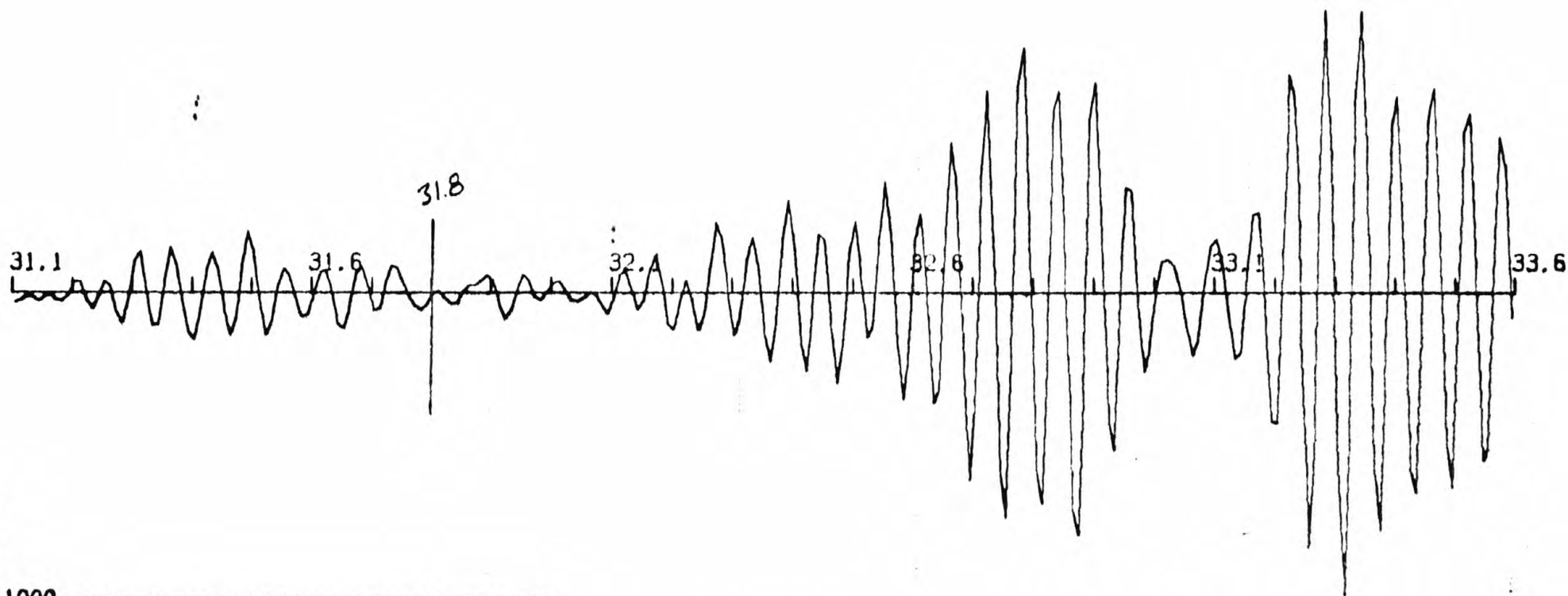
SAUDI REFRACTION PROFILE 15,20 BP

SHOT POINT 6

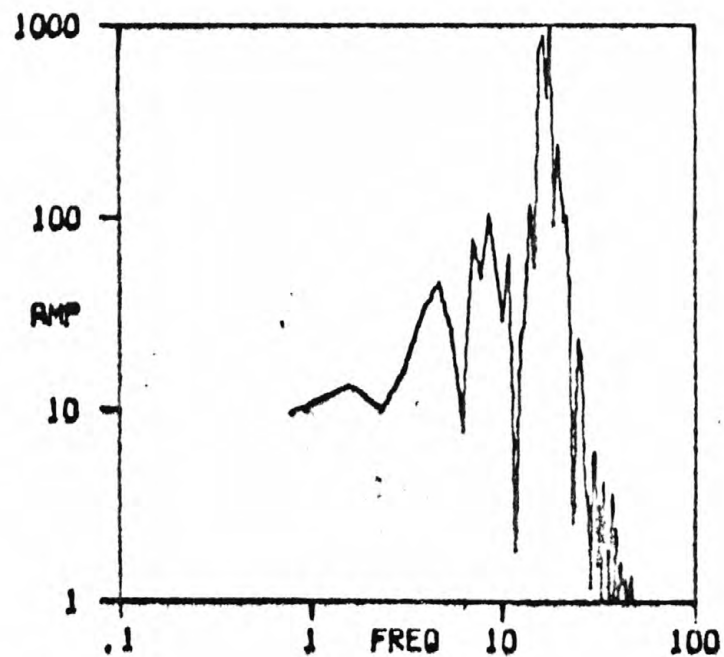
RECORDER LOCATION 617

DISTANCE FROM SHOT (KM) = 208.192

TSCALE (CM/SEC) = 10.0



803



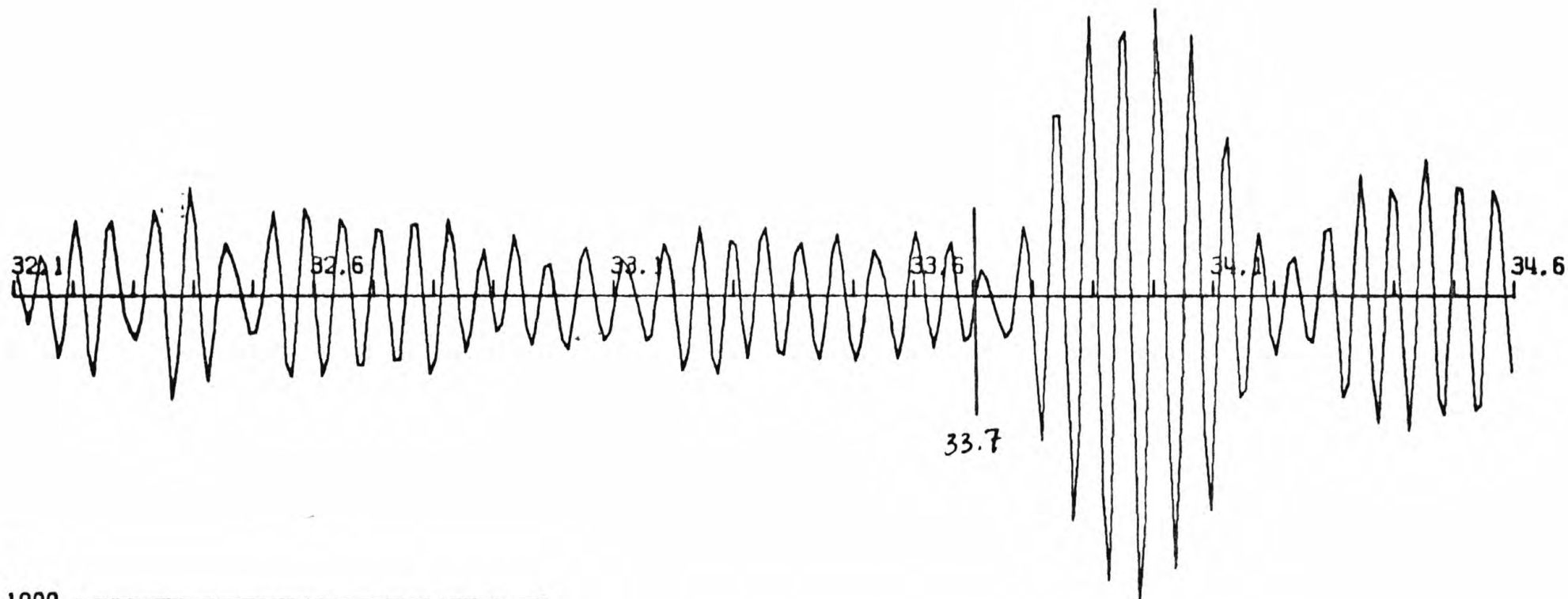
SAUDI REFRACTION PROFILE 15,20 BP

SHOT POINT 6

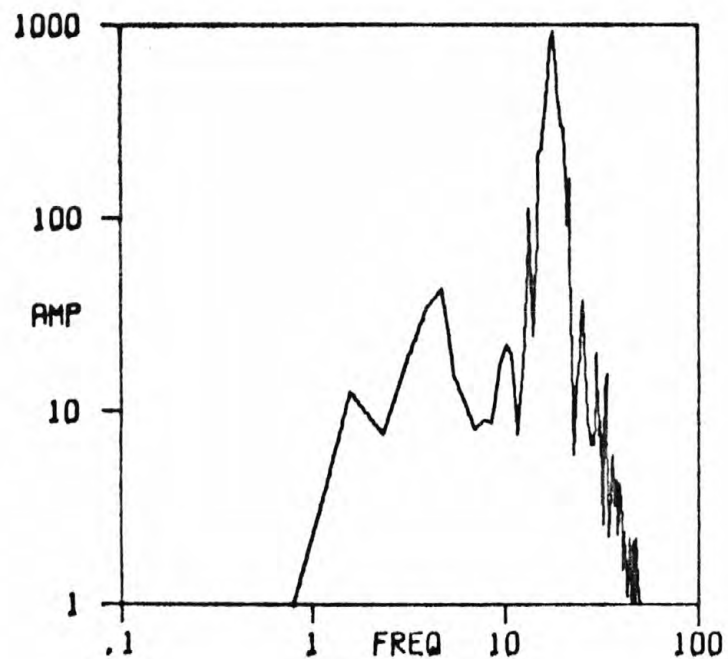
RECORDER LOCATION 616

DISTANCE FROM SHOT (KM) = 210.276

TSCALE (CM/SEC) = 10.0



804



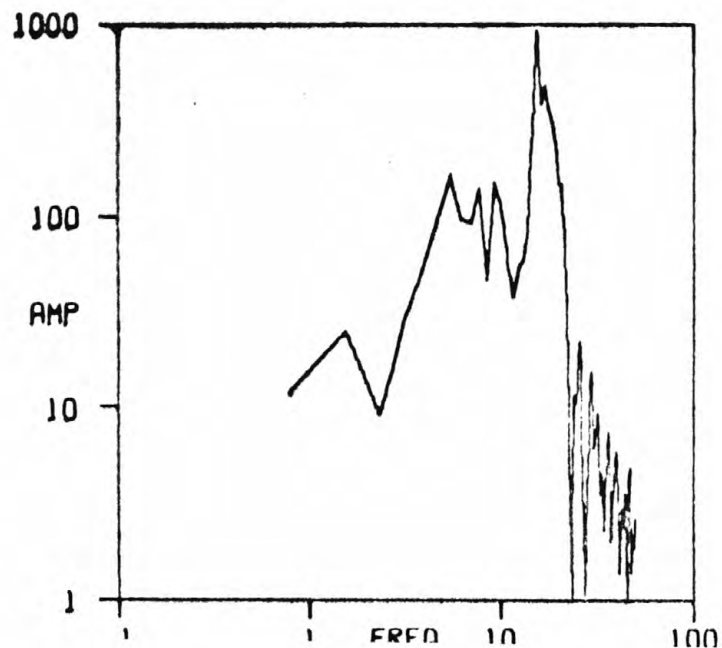
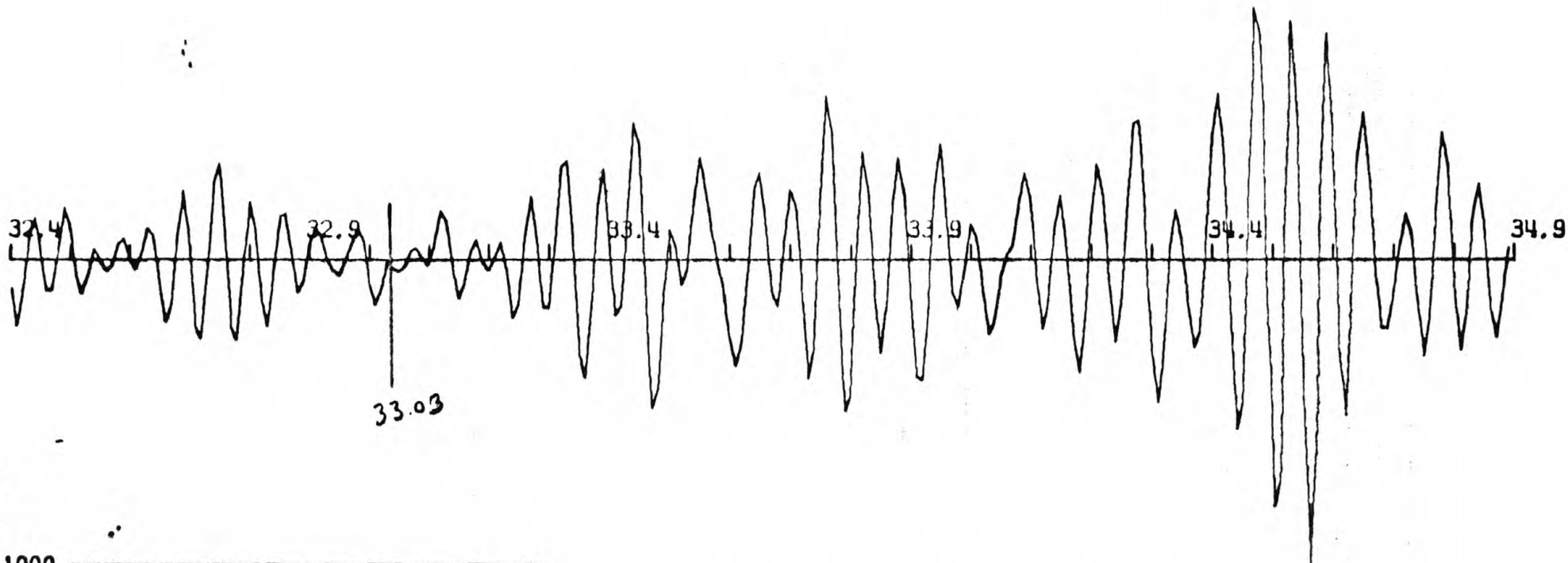
SAUDI REFRACTION PROFILE 15,20 BP

SHOT POINT 6

RECORDER LOCATION 613

DISTANCE FROM SHOT (KM) = 216.460

TSCALE (CM/SEC) = 10.0



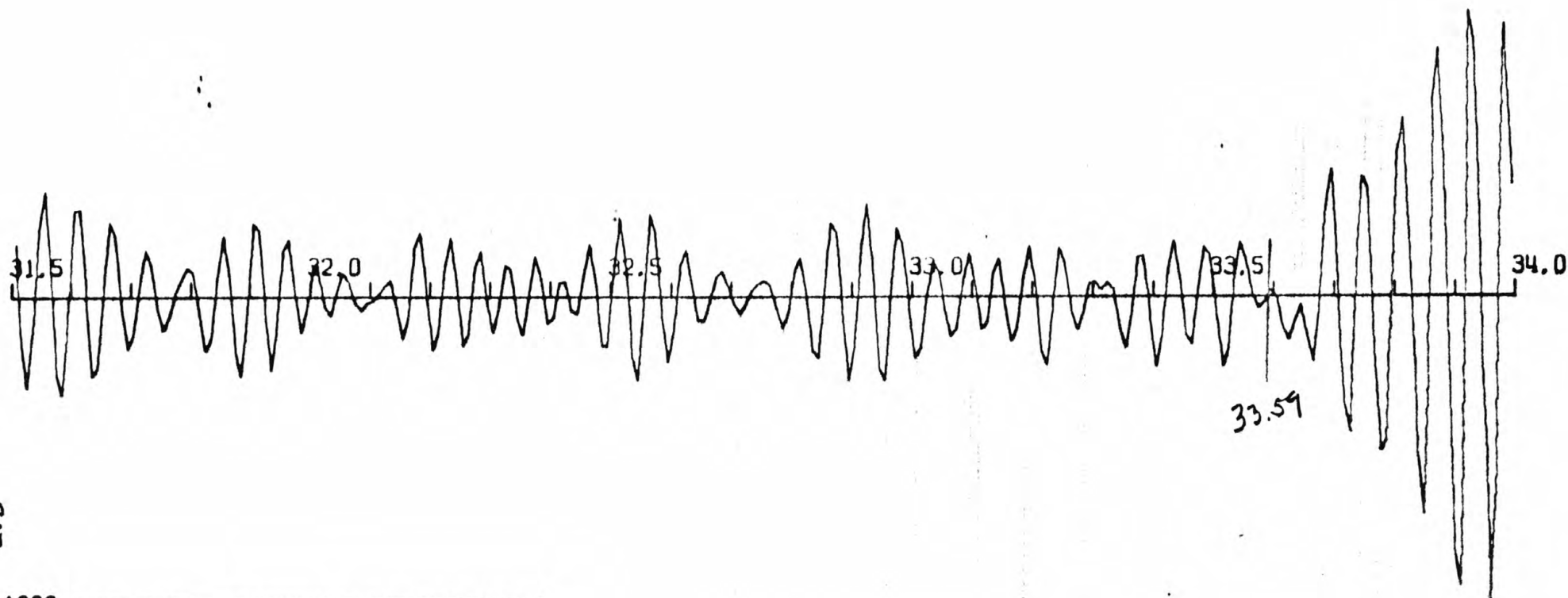
SAUDI REFRACTION PROFILE 15,20 BP

SHOT POINT 6

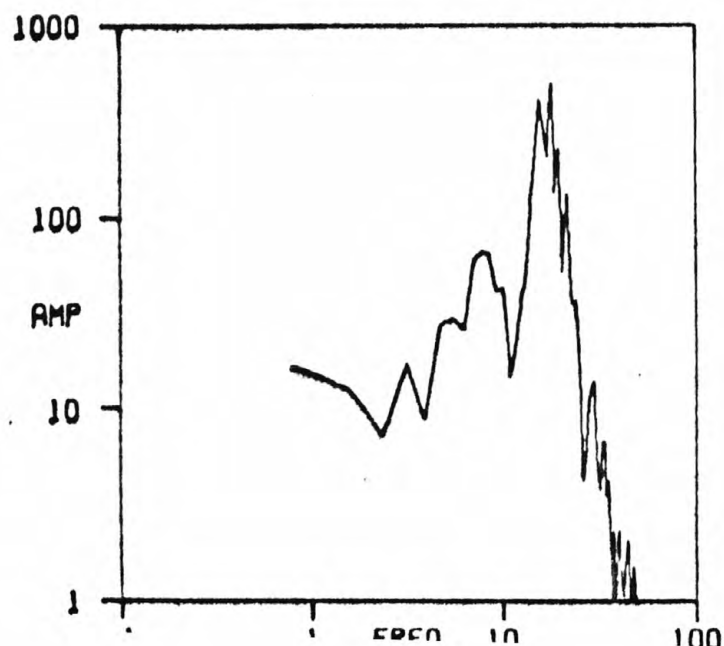
RECORDER LOCATION 612

DISTANCE FROM SHOT (KM) = 217.871

TSCALE (CM/SEC) = 10.0



108



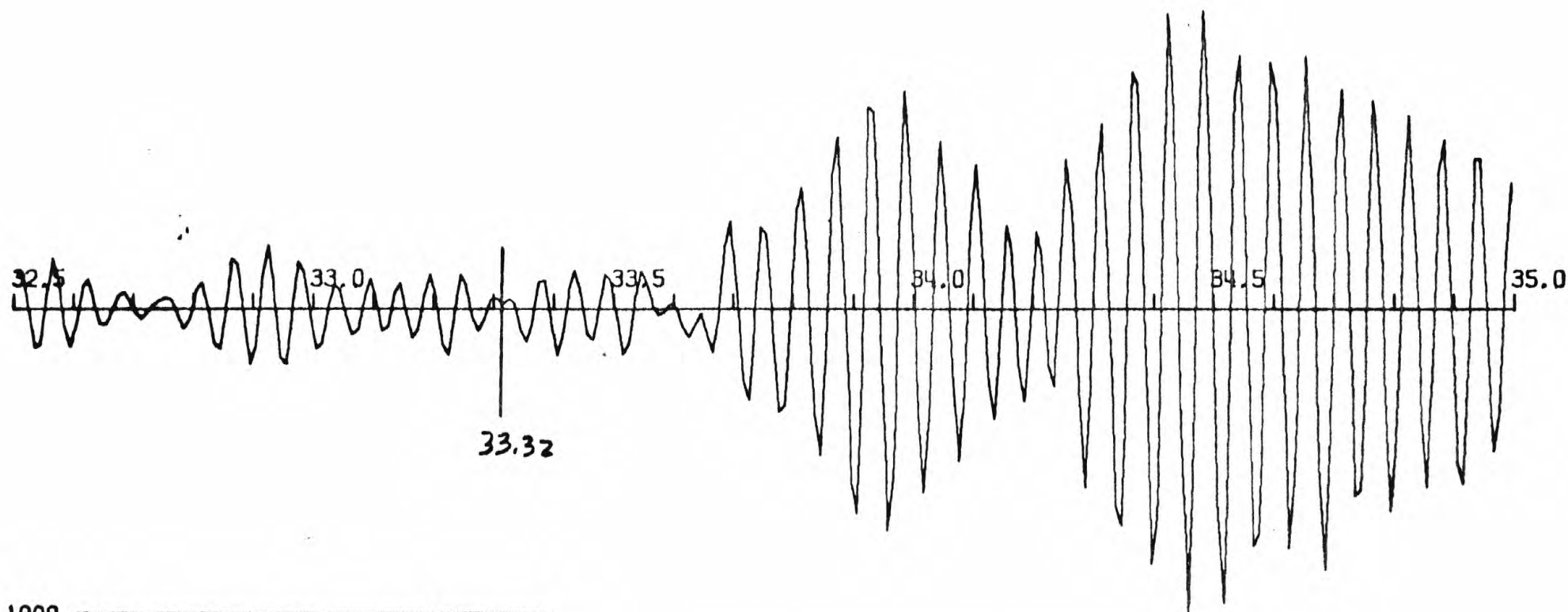
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 6

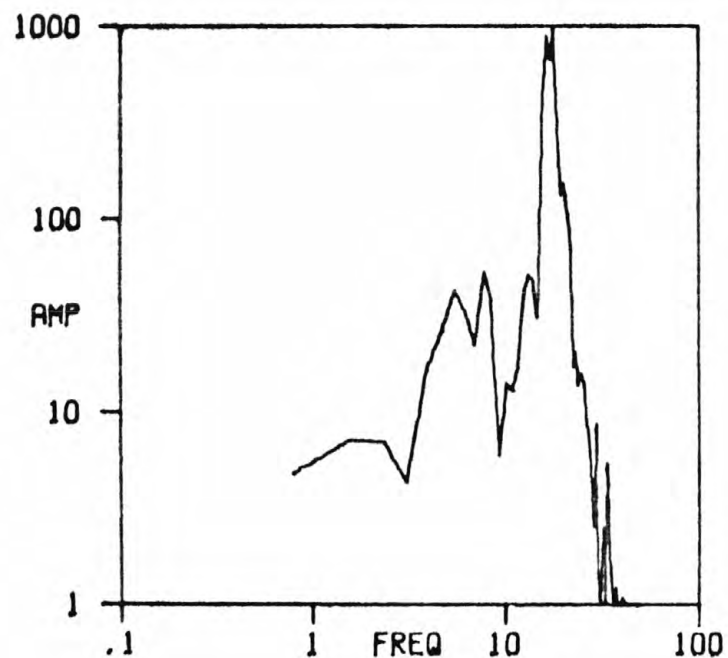
RECORDER LOCATION 611

DISTANCE FROM SHOT (KM) = 218.921

TSCALE (CM/SEC) = 10.0



808



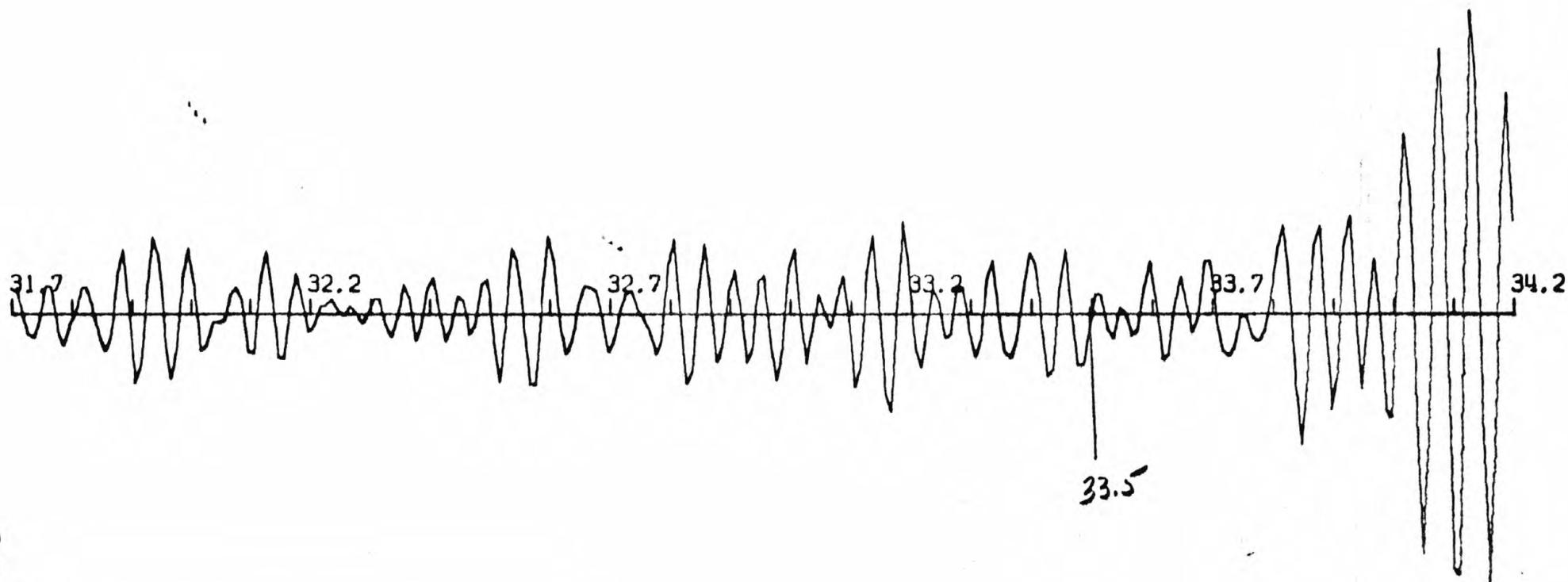
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 6

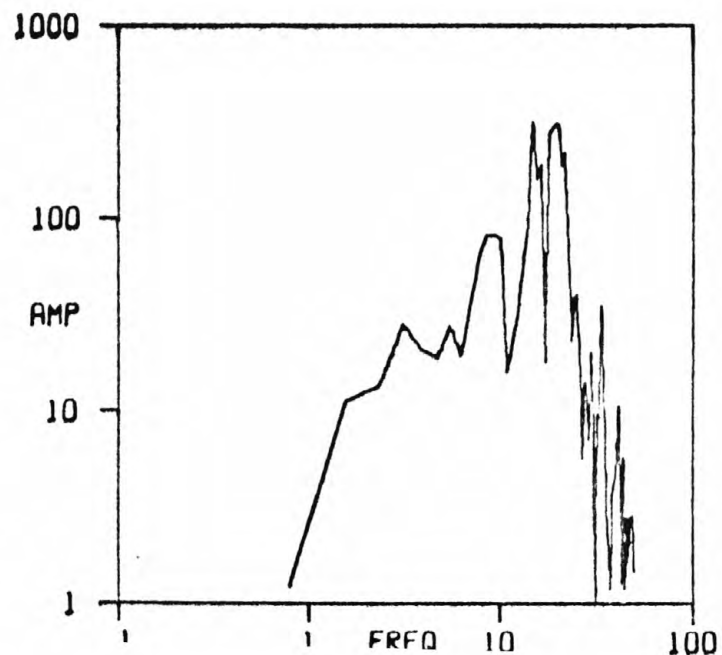
RECORDER LOCATION 611

DISTANCE FROM SHOT (KM) = 218.921

TSCALE (CM/SEC) = 10.0



608



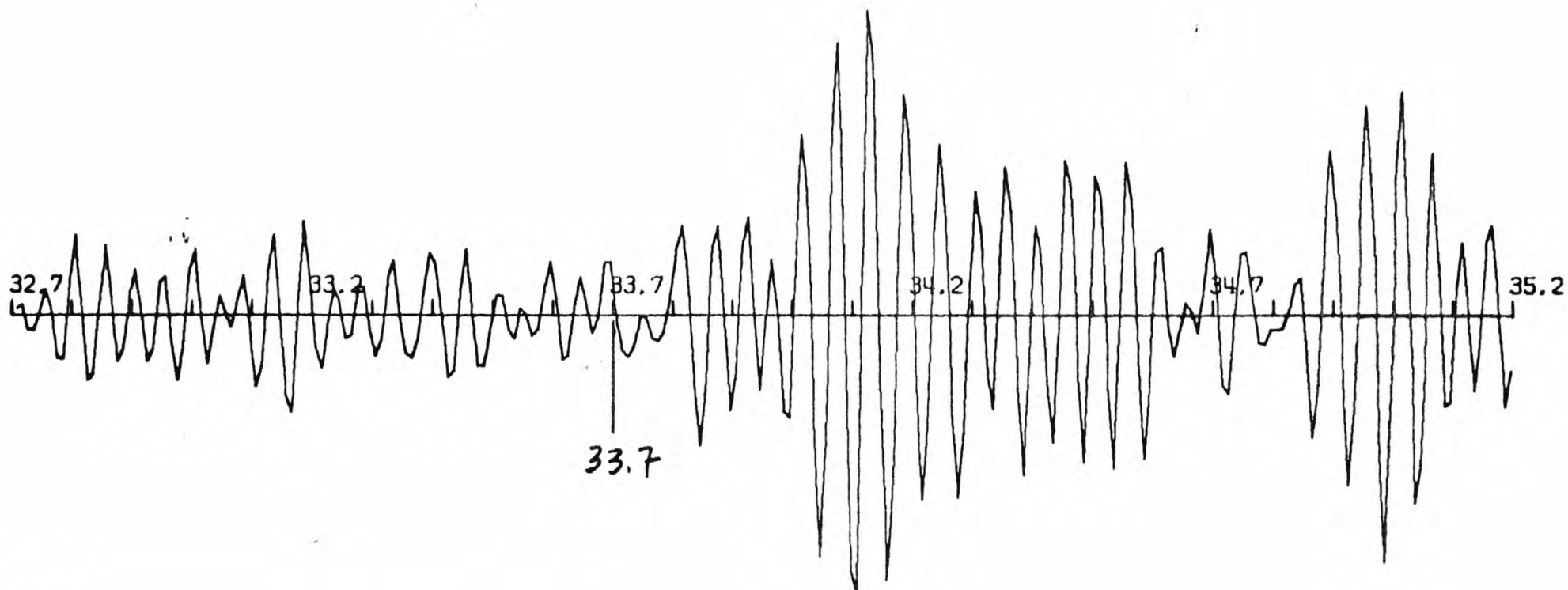
SAUDI REFRACTION PROFILE 15,20

SHOT POINT 6

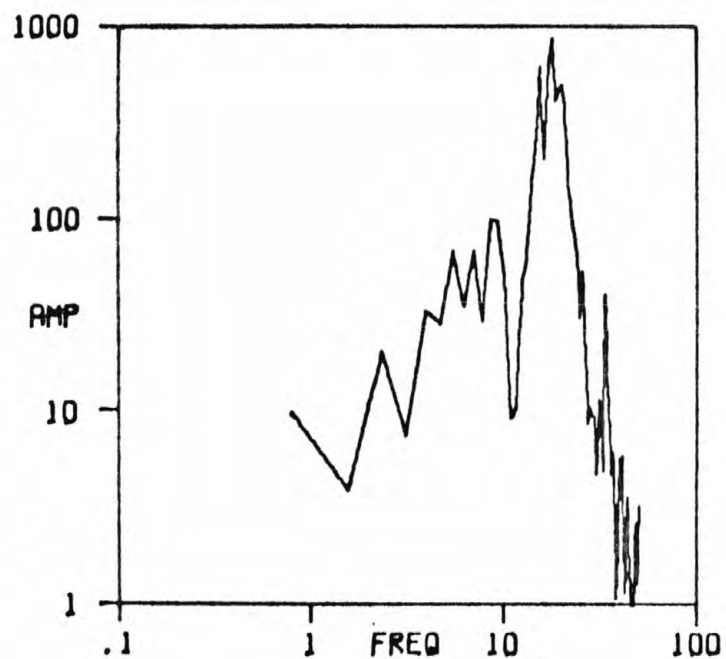
RECORDER LOCATION 610

DISTANCE FROM SHOT (KM) = 219.889

TSCALE (CM/SEC) = 10.0



012



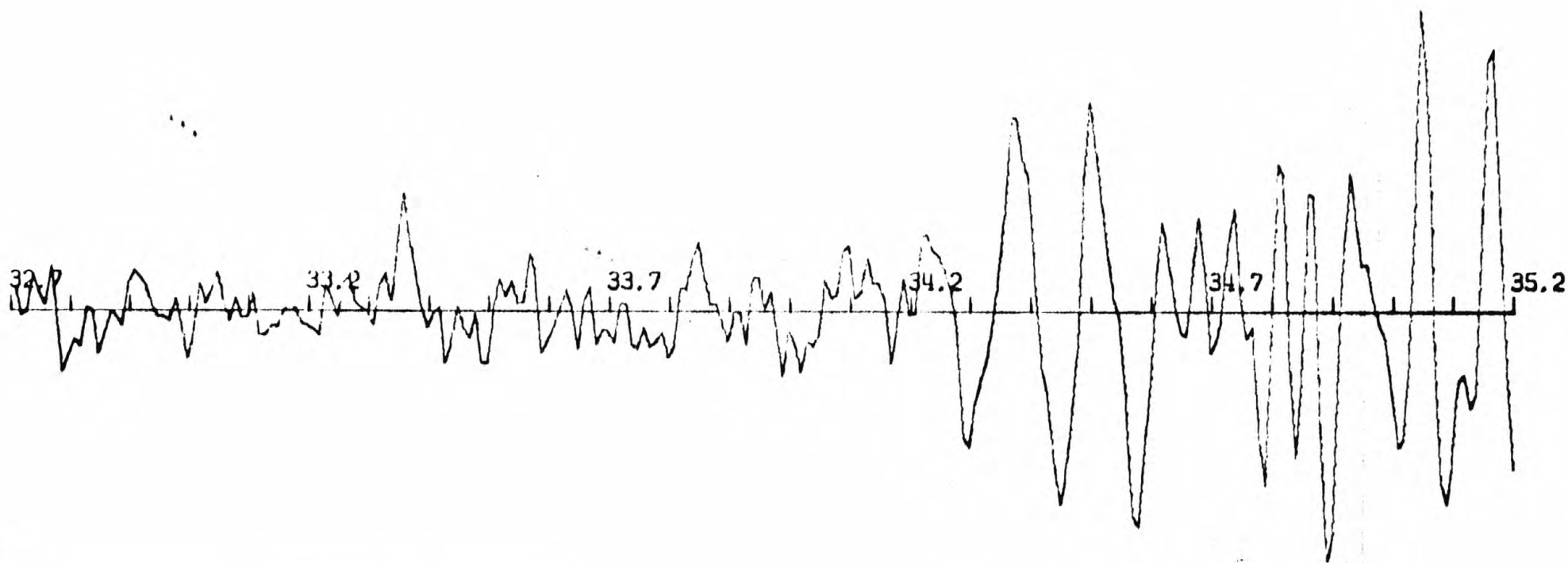
SAUDI REFRACTION PROFILE 15,20 BP

SHOT POINT 6

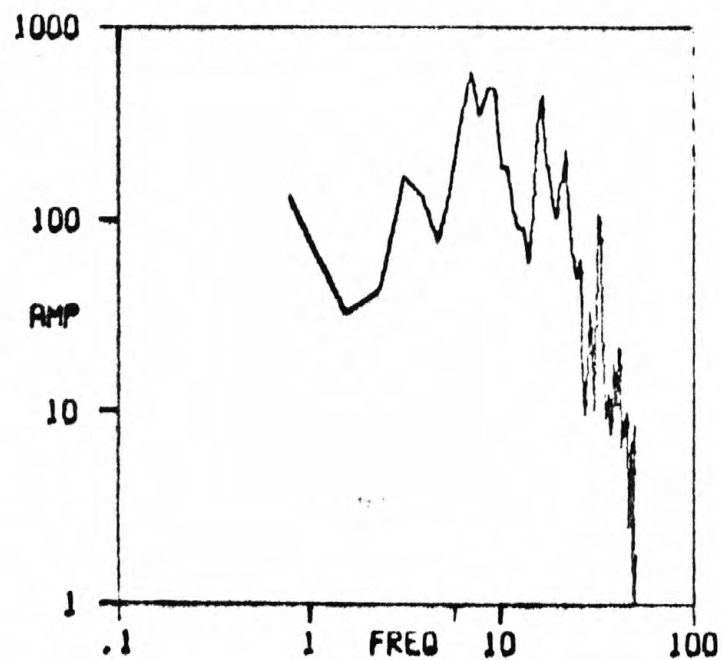
RECORDER LOCATION 610

DISTANCE FROM SHOT (KM) = 219.889

TSCALE (CM/SEC) = 10.0



118



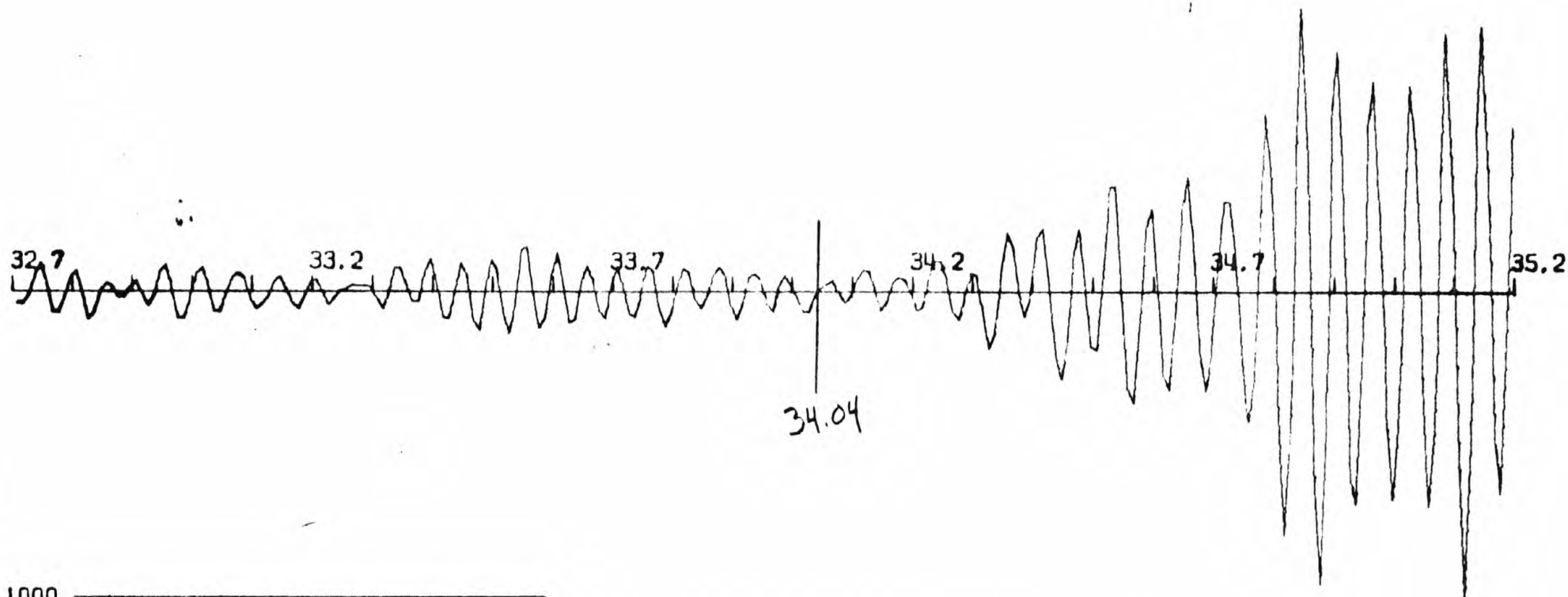
SAUDI REFRACTION PROFILE

SHOT POINT 6

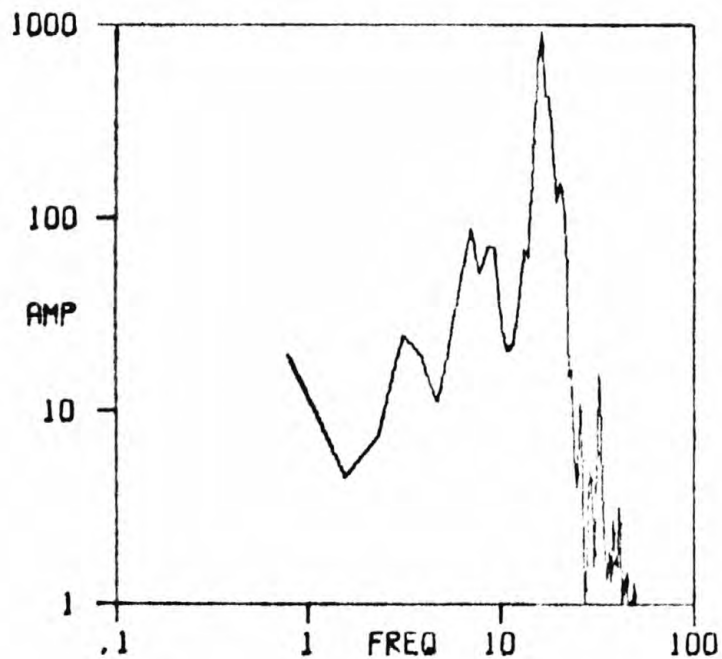
RECORDER LOCATION 607

DISTANCE FROM SHOT (KM) = 225.833

TSCALE (CM/SEC) = 10.0



812



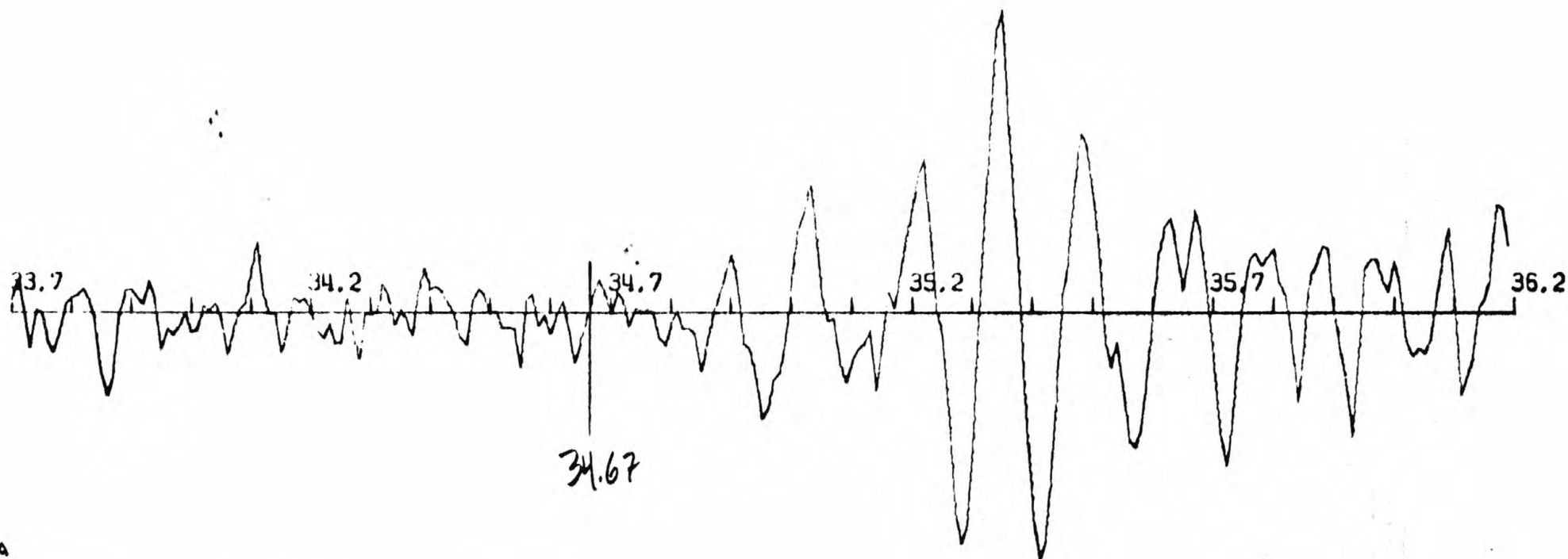
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 6

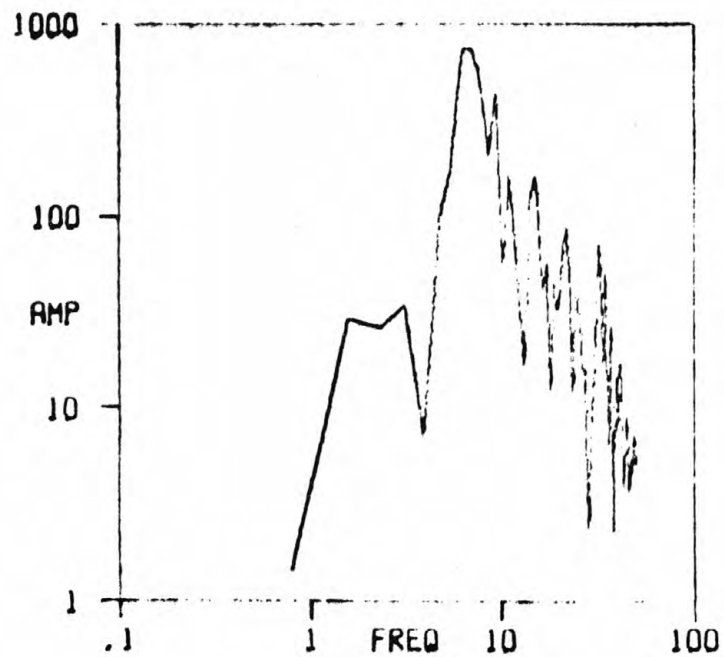
RECORDER LOCATION 607

DISTANCE FROM SHOT (KM) = 225.833

TS SCALE (CM/SEC) = 10.0



813



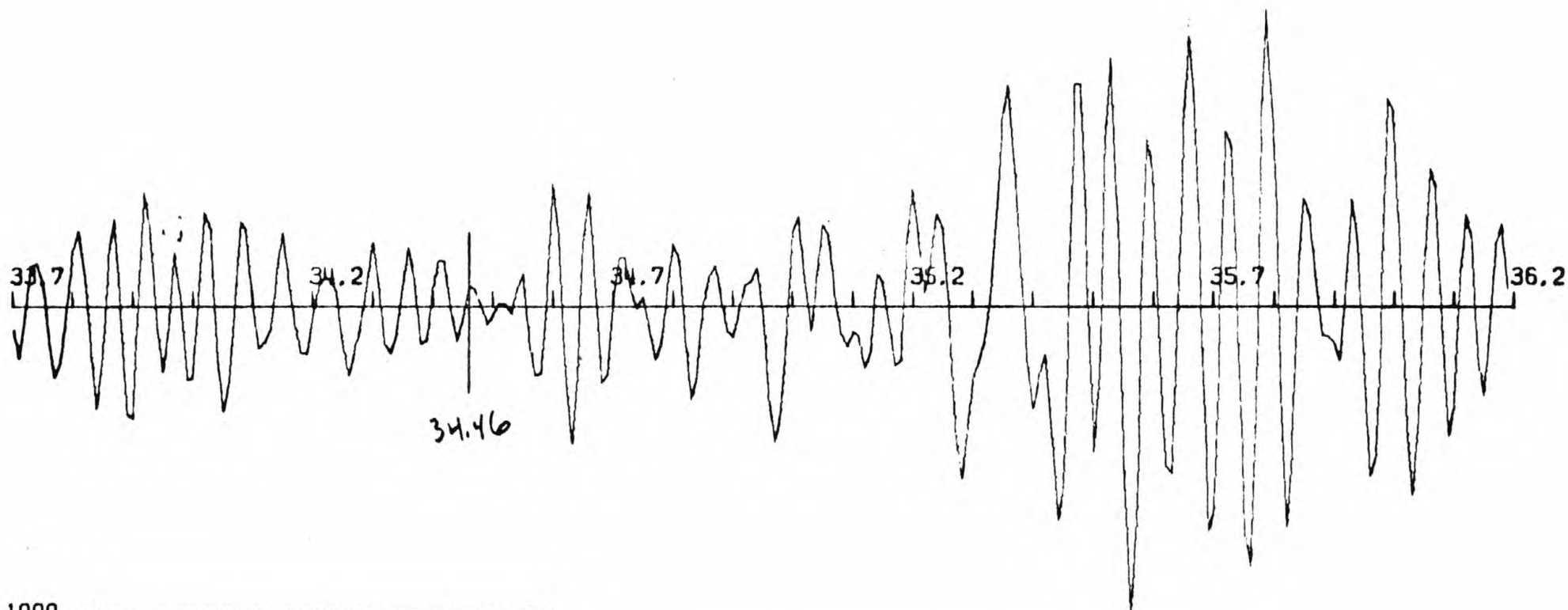
SAUDI REFRACTION PROFILE

SHOT POINT 6

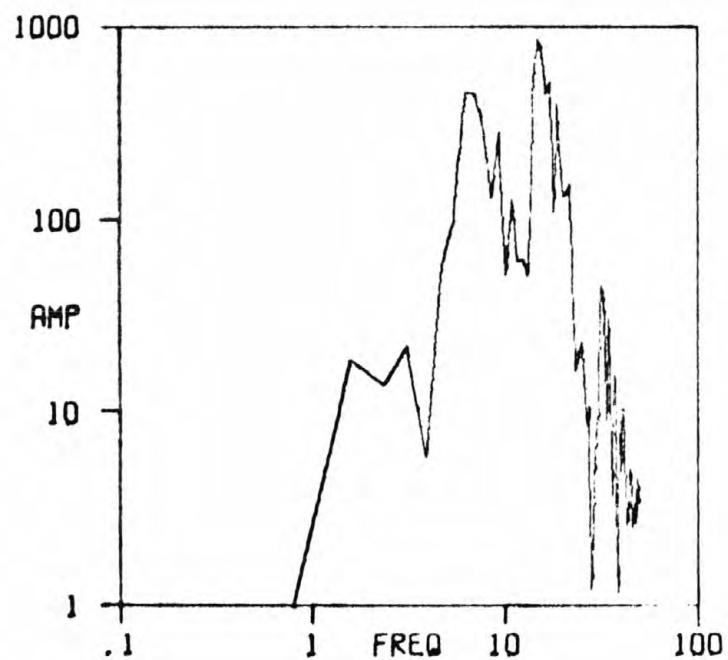
RECORDER LOCATION 602

DISTANCE FROM SHOT (KM) = 231.613

TSCALE (CM/SEC) = 10.0



814



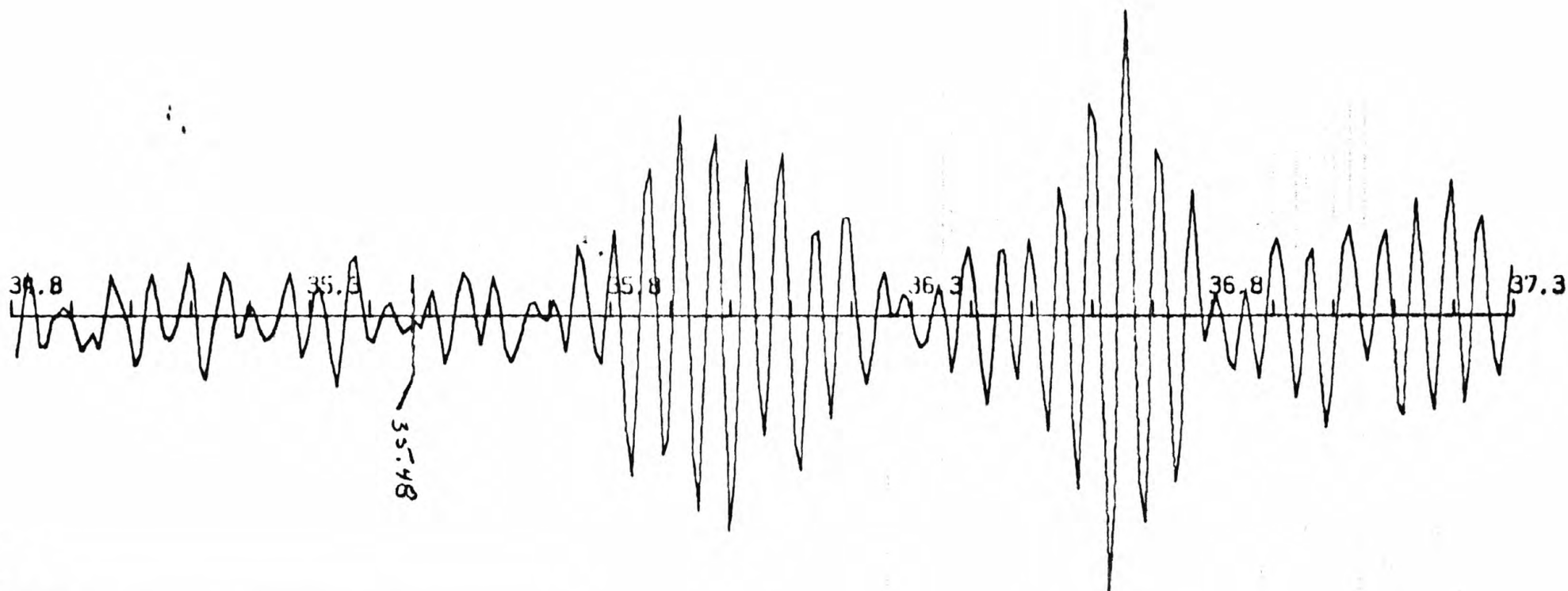
SAUDI REFRACTION PROFILE 15,20 BP

SHOT POINT 6

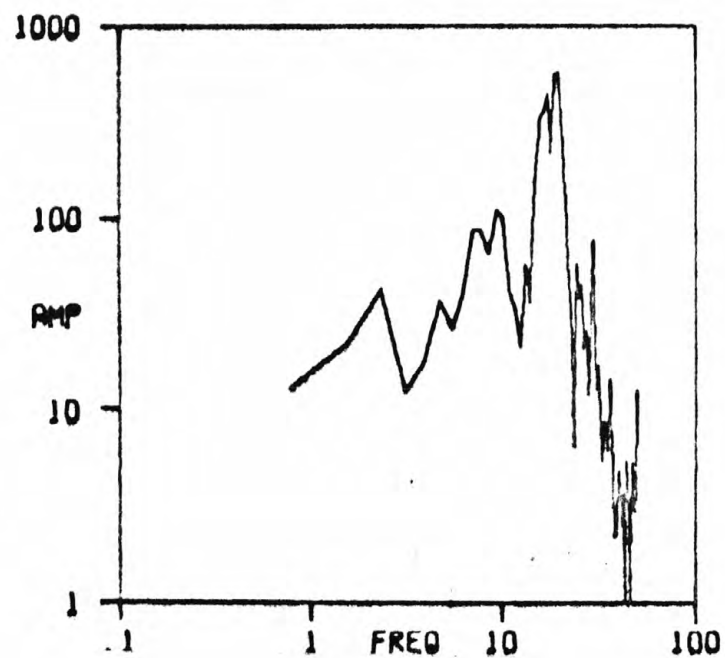
RECORDER LOCATION 602

DISTANCE FROM SHOT (KM) = 231.613

TSCALE (CM/SEC) = 10.0



815



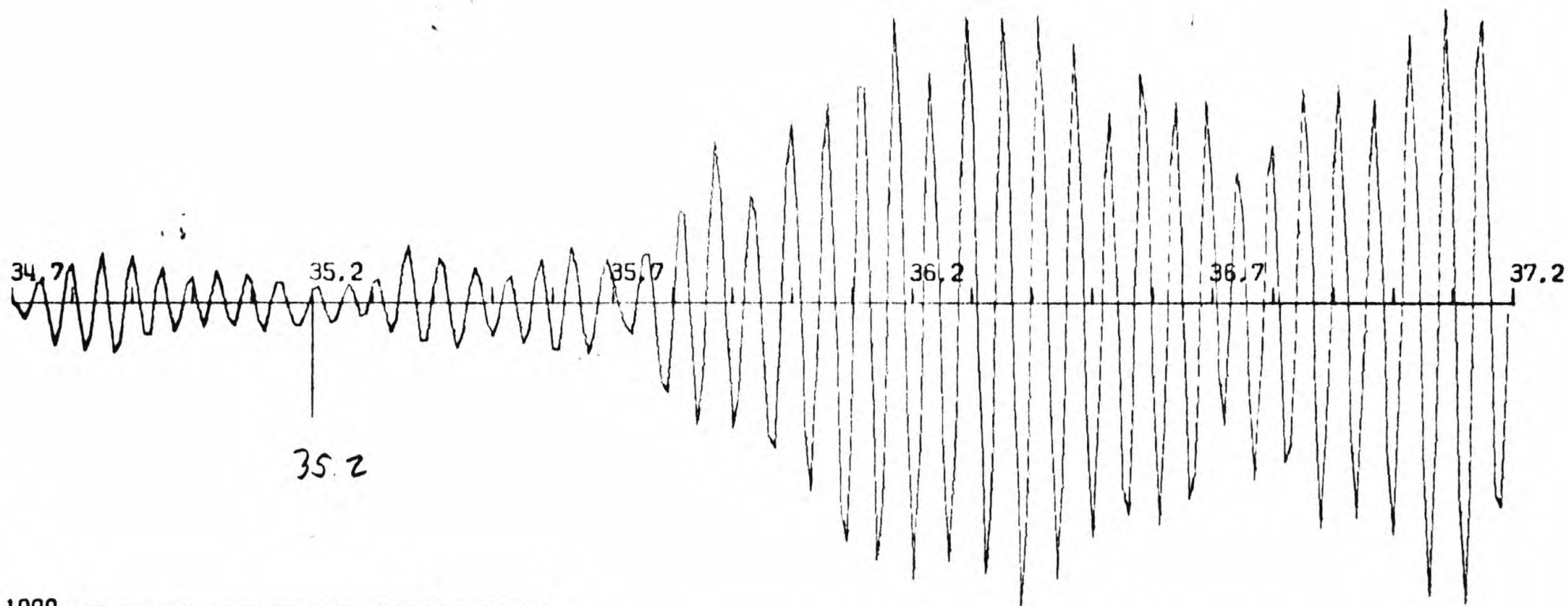
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 6

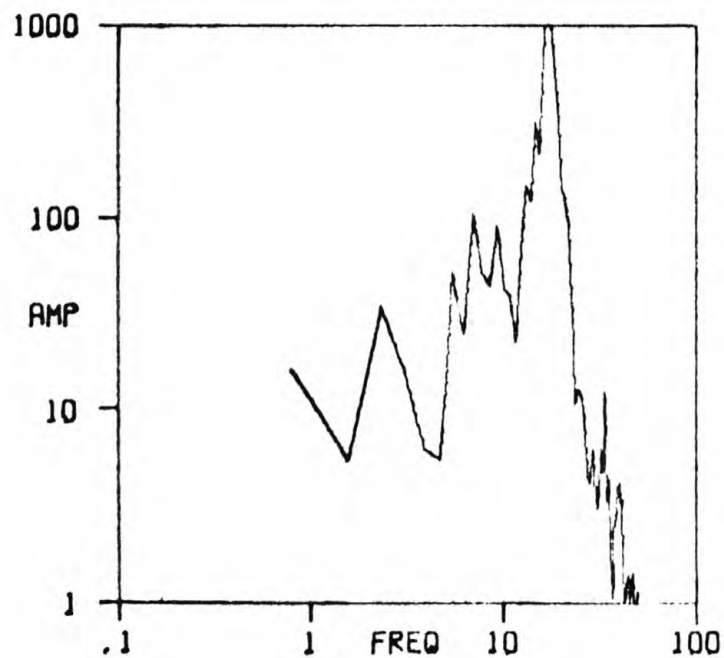
REORDER LOCATION 600

DISTANCE FROM SHOT (KM) = 235.551

TSCALE (CM/SEC) = 10.0



818



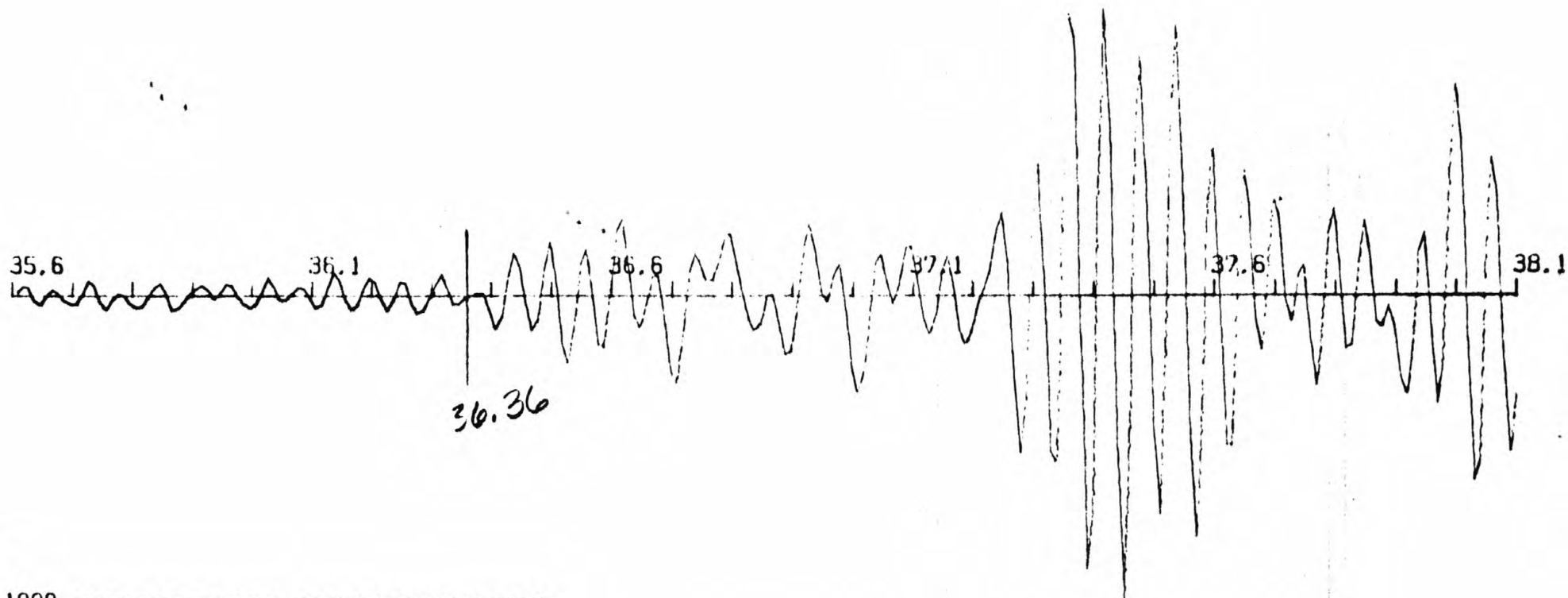
SAUDI REFRACTION PROFILE 15,20 BP

SHOT POINT 6

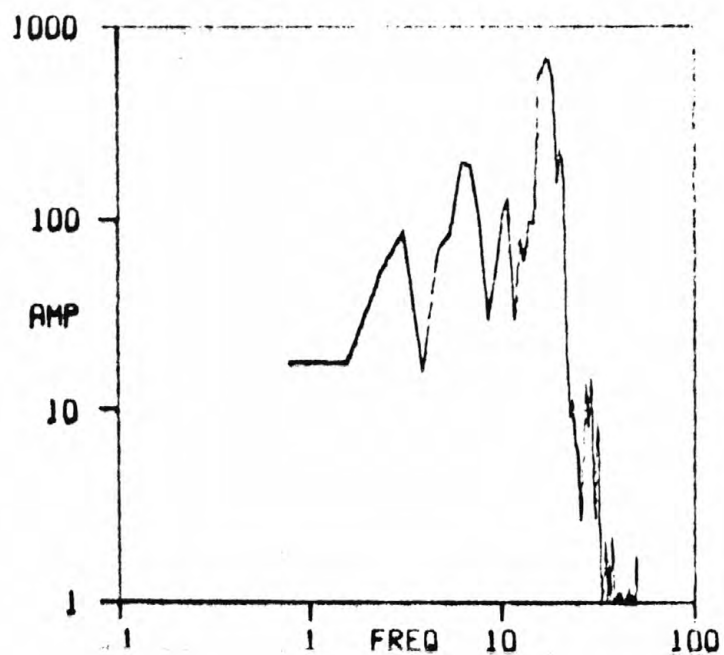
RECORDER LOCATION 599

DISTANCE FROM SHOT (KM) = 237.675

TSCALE (CM/SEC) = 10.0



218



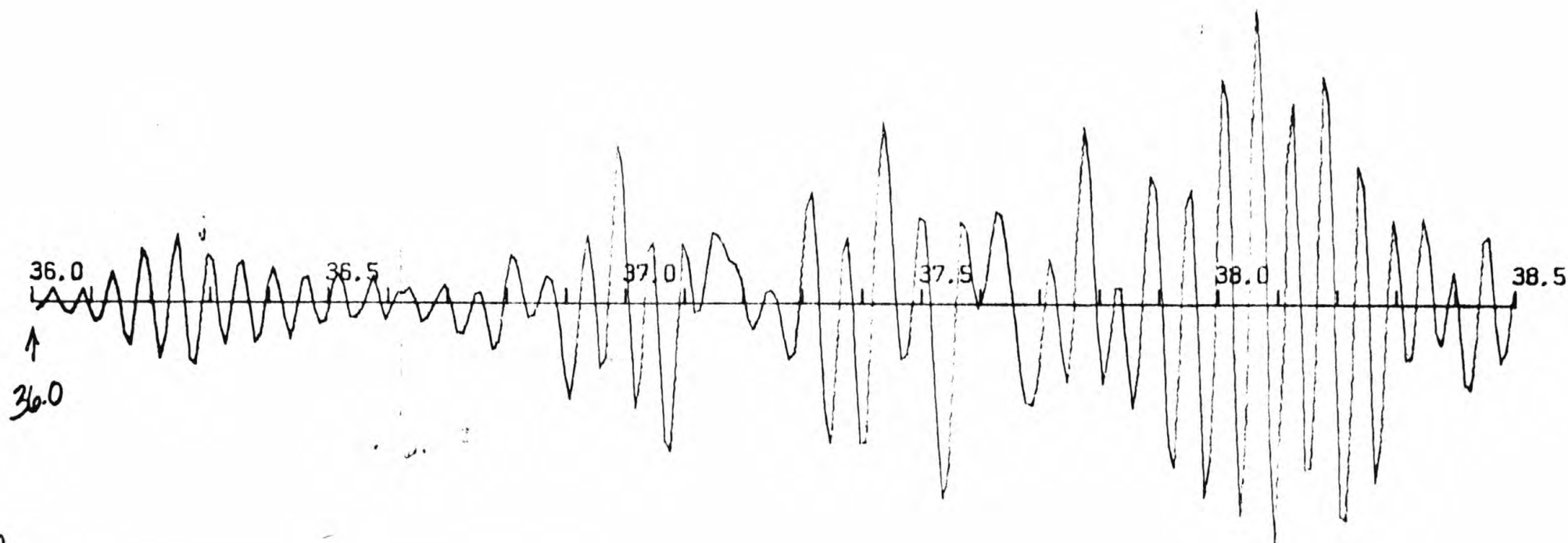
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 6

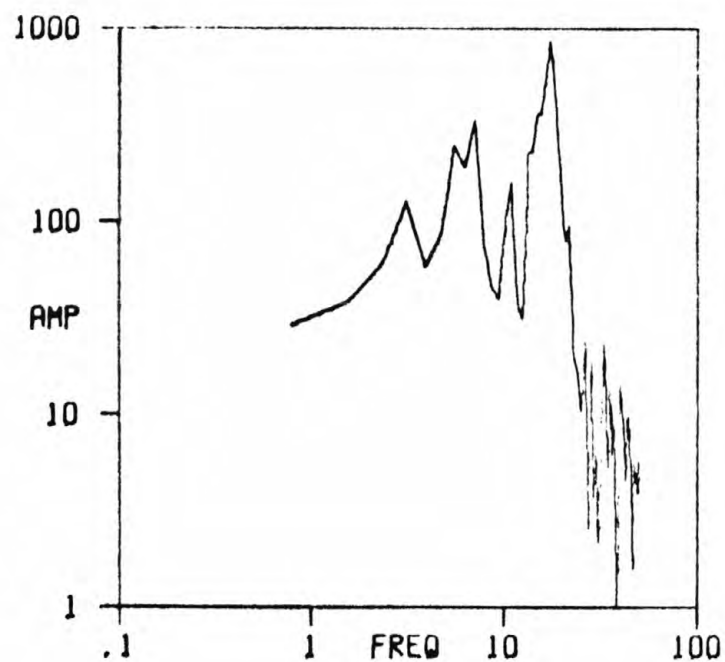
RECORDER LOCATION 596

DISTANCE FROM SHOT (KM) = 243.355

TSCALE (CM/SEC) = 10.0



818



SAUDI REFRACTION PROFILE 15,20 BP

SHOT POINT 6

RECORDER LOCATION 595

DISTANCE FROM SHOT (KM) = 245.927

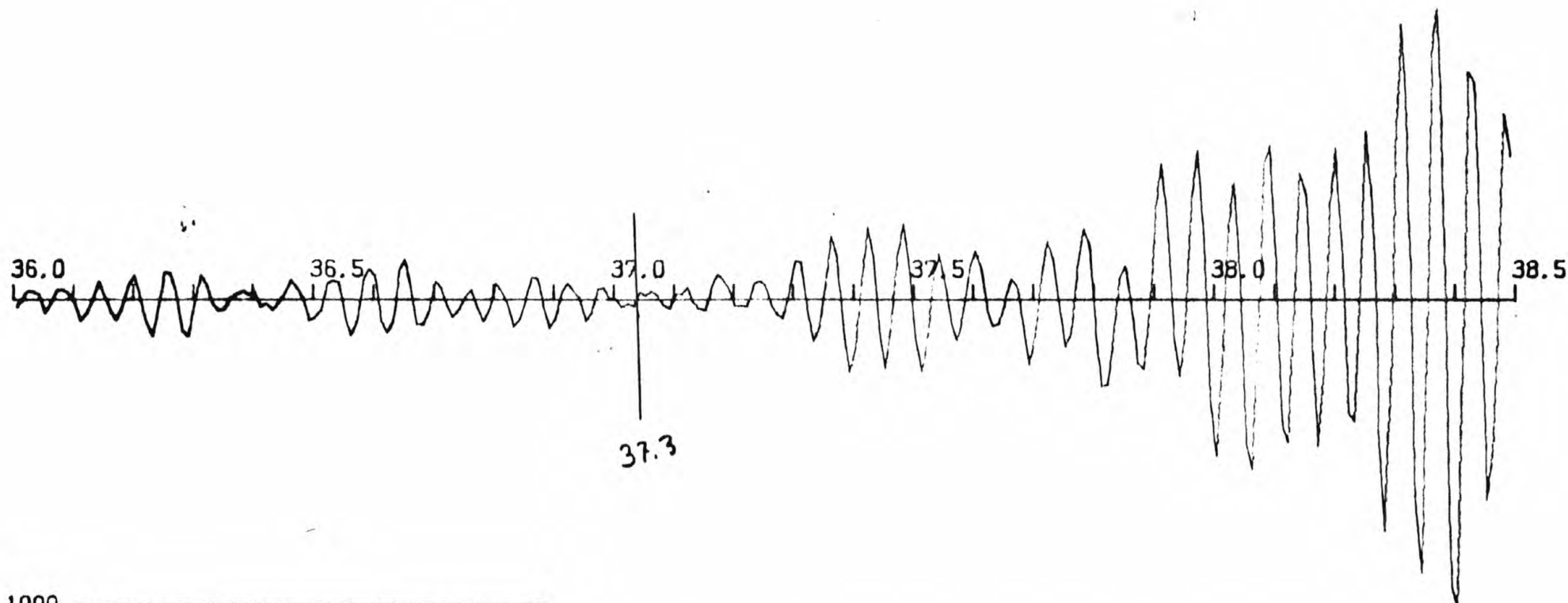
TSCALE (CM/SEC) = 10.0

THE UNIVERSITY OF CHICAGO
DIVISION OF THE PHYSICAL SCIENCES
DEPARTMENT OF PHYSICS
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PHYSICS 435: QUANTUM MECHANICS
LECTURE 1: THE SCHRÖDINGER EQUATION
PROFESSOR: JOHN J. HOPF
LECTURER: JAMES M. HANCOCK
DATE: 10/1/2000

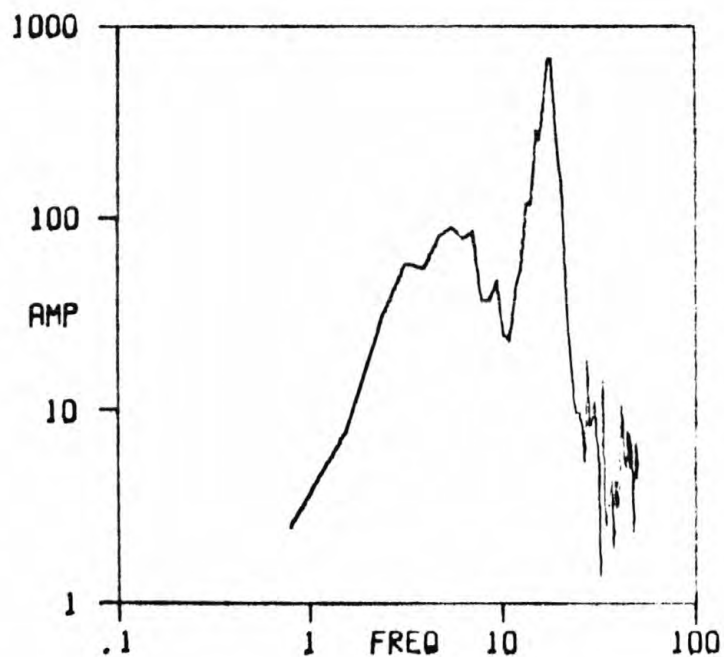
1.1 THE SCHRÖDINGER EQUATION
1.2 THE WAVE FUNCTION
1.3 THE PROBABILITY DENSITY
1.4 THE EXPECTED VALUE
1.5 THE UNCERTAINTY PRINCIPLE
1.6 THE TUNNELING EFFECT
1.7 THE PARTICLE IN A BOX
1.8 THE HARMONIC OSCILLATOR
1.9 THE HYDROGEN ATOM
1.10 THE SPIN OF THE ELECTRON

2.1 THE SCHRÖDINGER EQUATION
2.2 THE WAVE FUNCTION
2.3 THE PROBABILITY DENSITY
2.4 THE EXPECTED VALUE
2.5 THE UNCERTAINTY PRINCIPLE
2.6 THE TUNNELING EFFECT
2.7 THE PARTICLE IN A BOX
2.8 THE HARMONIC OSCILLATOR
2.9 THE HYDROGEN ATOM
2.10 THE SPIN OF THE ELECTRON

3.1 THE SCHRÖDINGER EQUATION
3.2 THE WAVE FUNCTION
3.3 THE PROBABILITY DENSITY
3.4 THE EXPECTED VALUE
3.5 THE UNCERTAINTY PRINCIPLE
3.6 THE TUNNELING EFFECT
3.7 THE PARTICLE IN A BOX
3.8 THE HARMONIC OSCILLATOR
3.9 THE HYDROGEN ATOM
3.10 THE SPIN OF THE ELECTRON



820



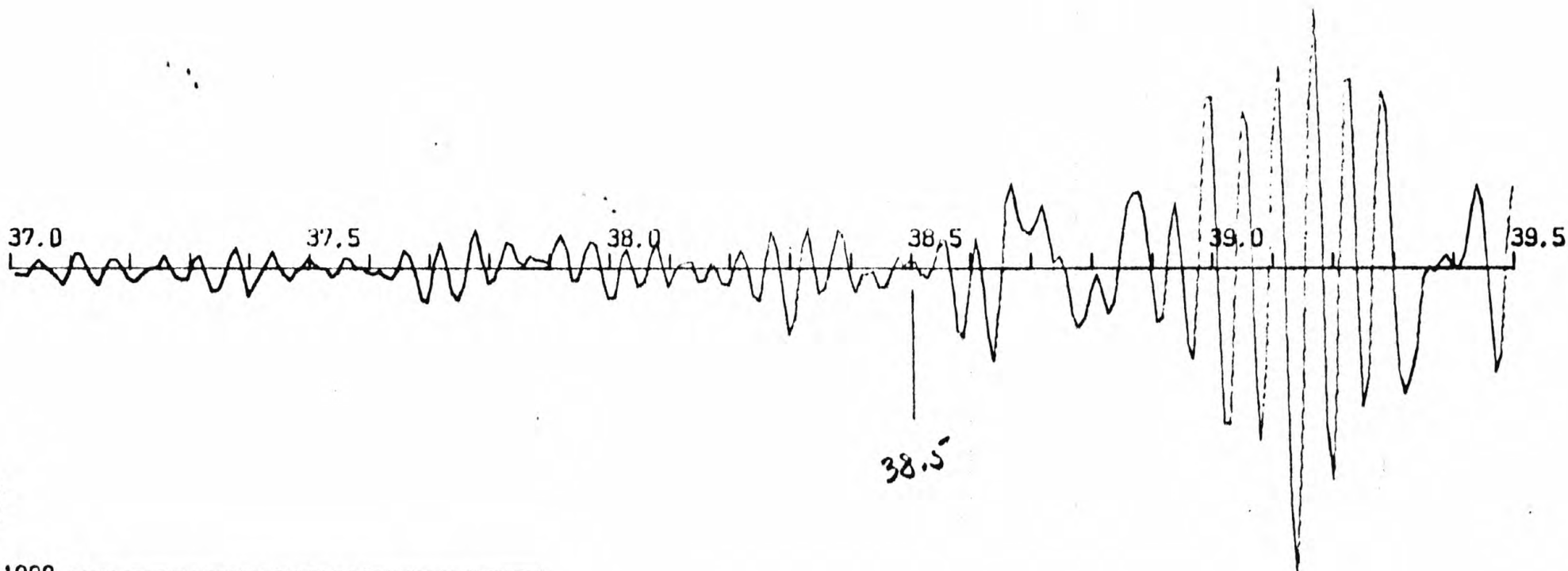
SAUDI REFRACTION PROFILE 15,20 BP

SHOT POINT 6

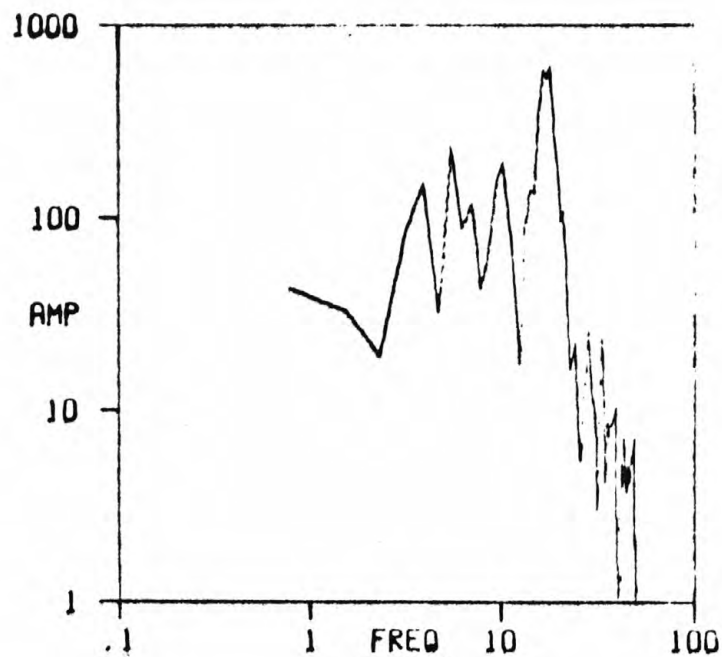
RECORDER LOCATION 592

DISTANCE FROM SHOT (KM) = 251.971

TSCALE (CM/SEC) = 10.0



821



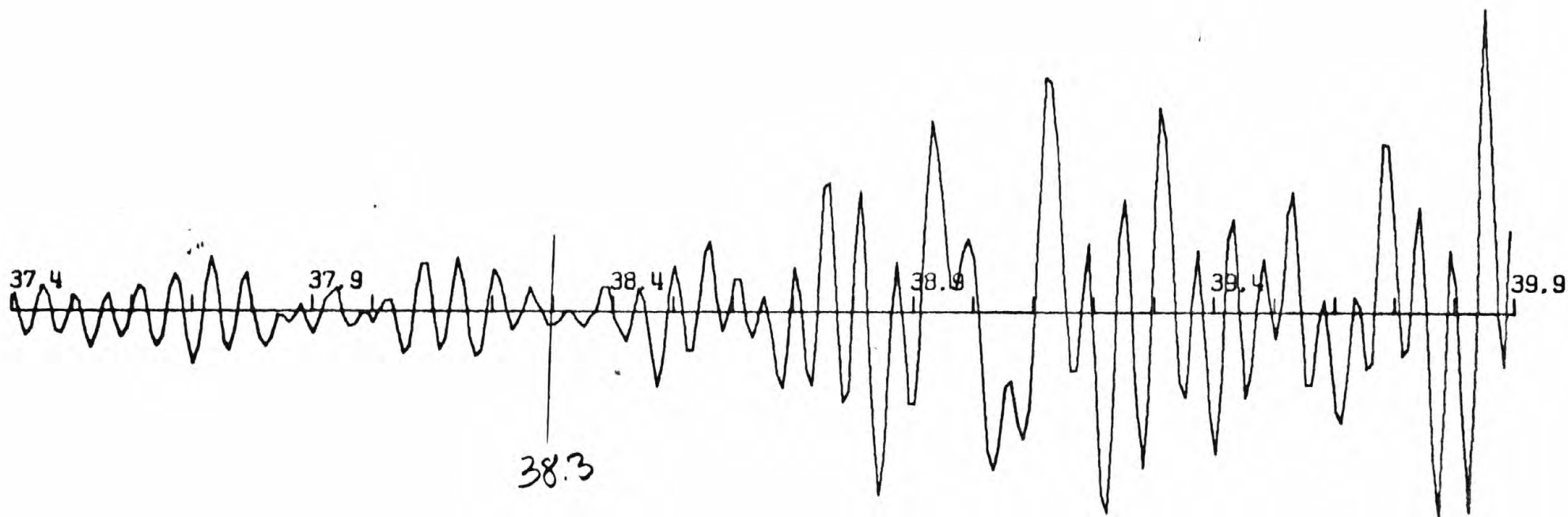
SAUDI REFRACTION PROFILE 15,20 BP

SHOT POINT 6

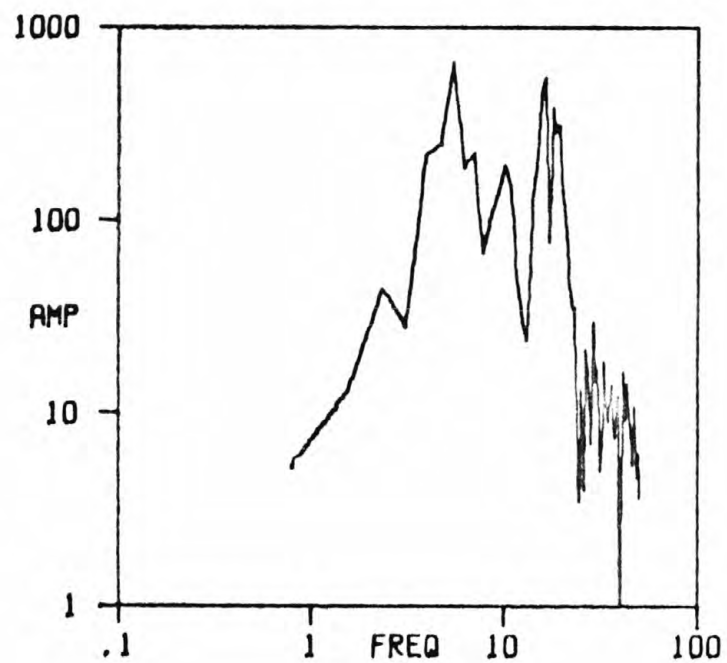
RECORDER LOCATION 589

DISTANCE FROM SHOT (KM) = 257.998

TSCALE (CM/SEC) = 10.0



822



SAUDI REFRACTION PROFILE 15,20 DP

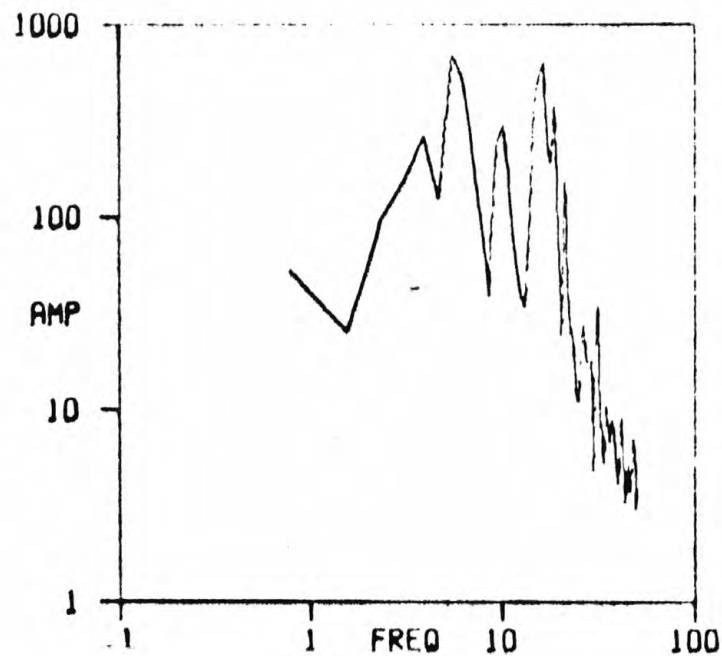
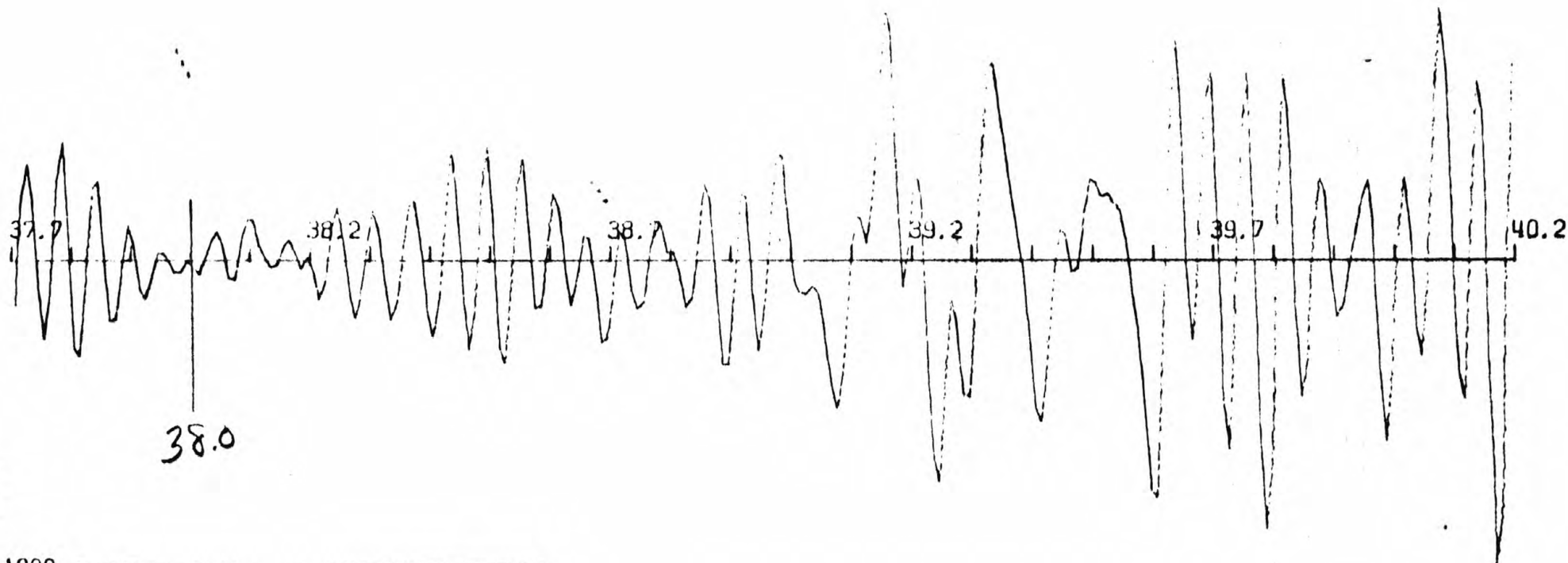
SHOT POINT 6

RECORDER LOCATION 588

DISTANCE FROM SHOT (KM) = 260.127

TSCALE (CM/SEC) = 10.0

823



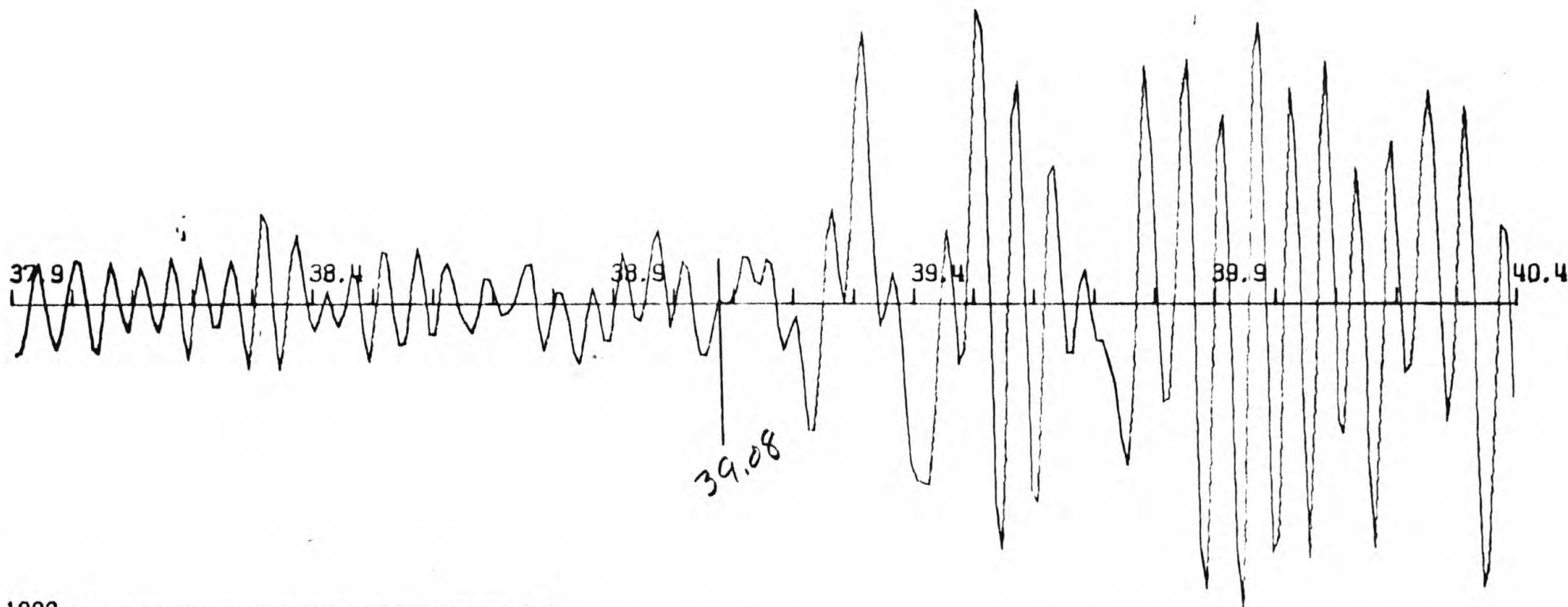
SAUDI REFRACTION PROFILE 15,20 BP

SHOT POINT 6

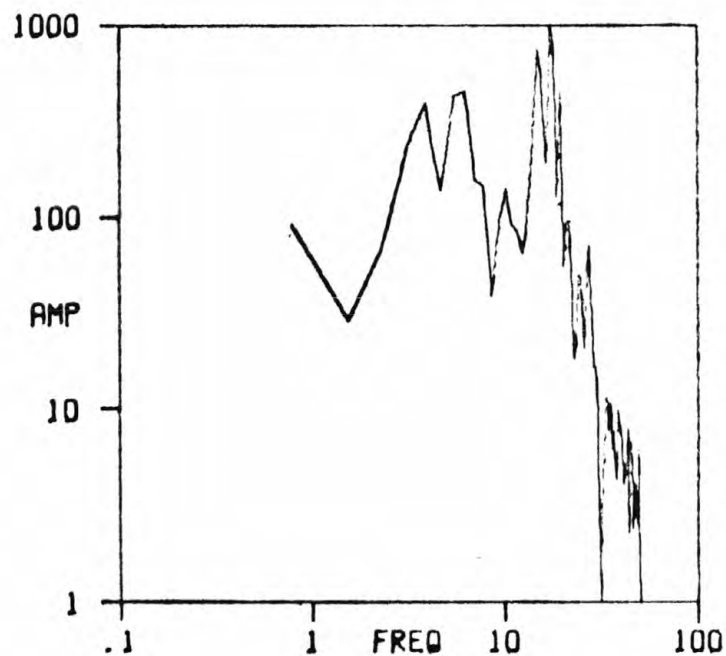
RECORDER LOCATION 587

DISTANCE FROM SHOT (KM) = 261.820

TSCALE (CM/SEC) = 10.0



824



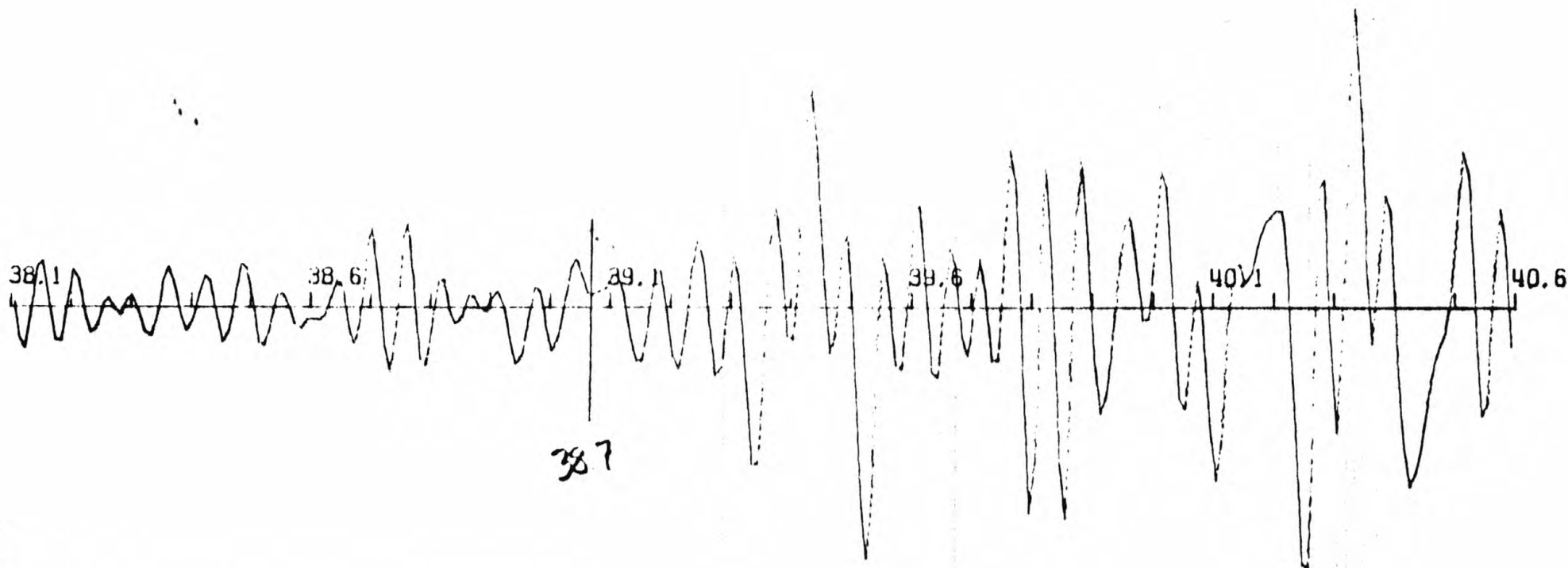
SAUDI REFRACTION PROFILE 15,20 BP

SHOT POINT 6

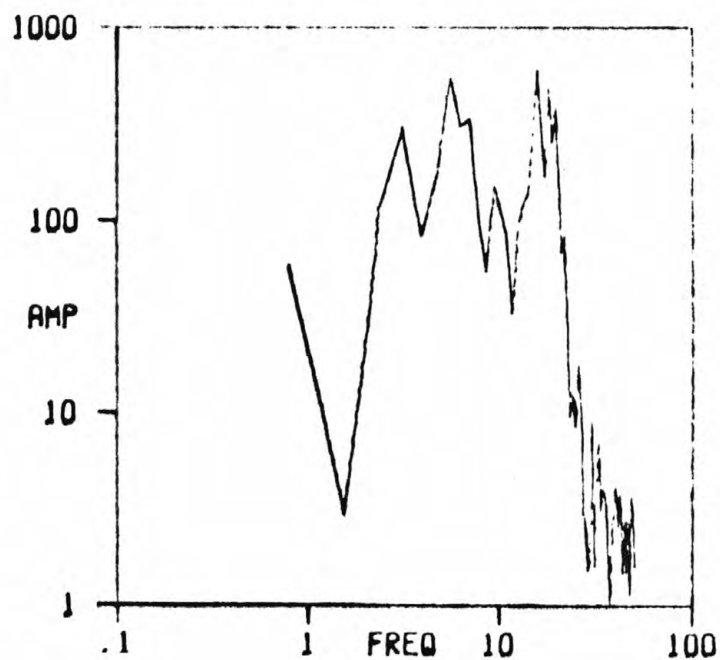
RECORDER LOCATION 586

DISTANCE FROM SHOT (KM) = 263.135

TSCALE (CM/SEC) = 10.0



825



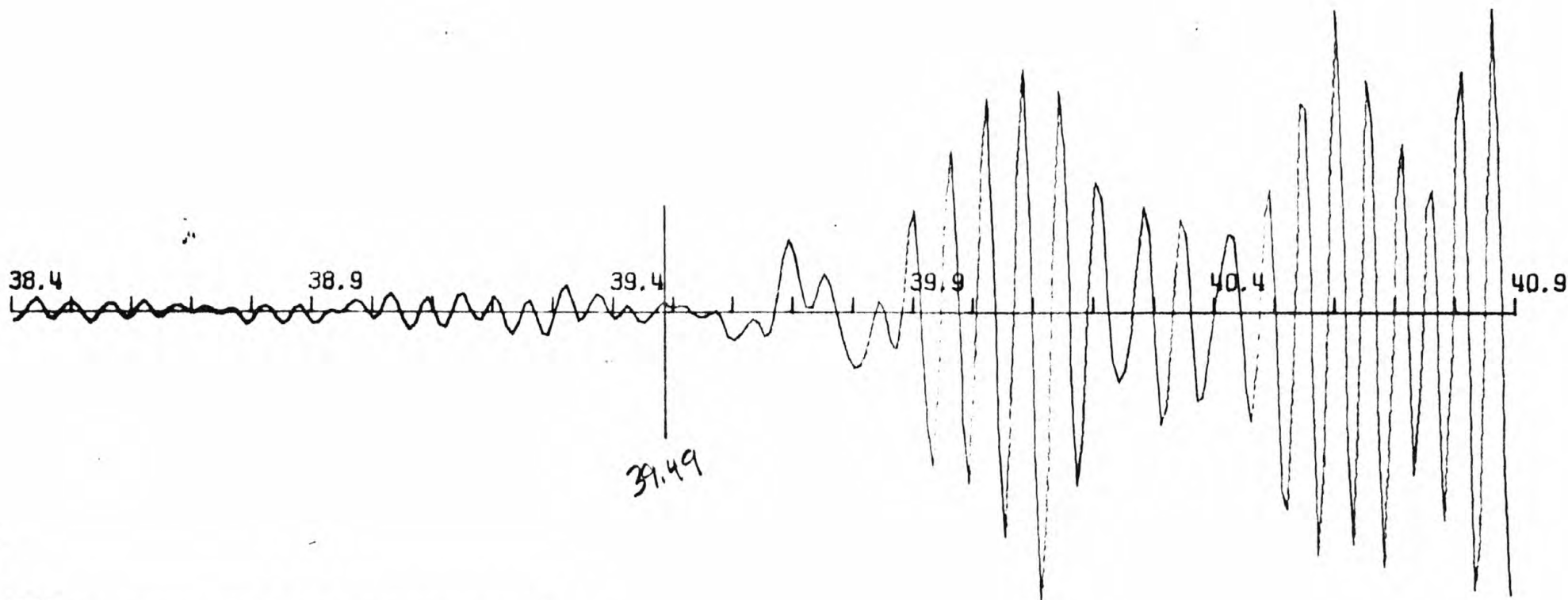
SAUDI REFRACTION PROFILE 15,20 BP

SHOT POINT 6

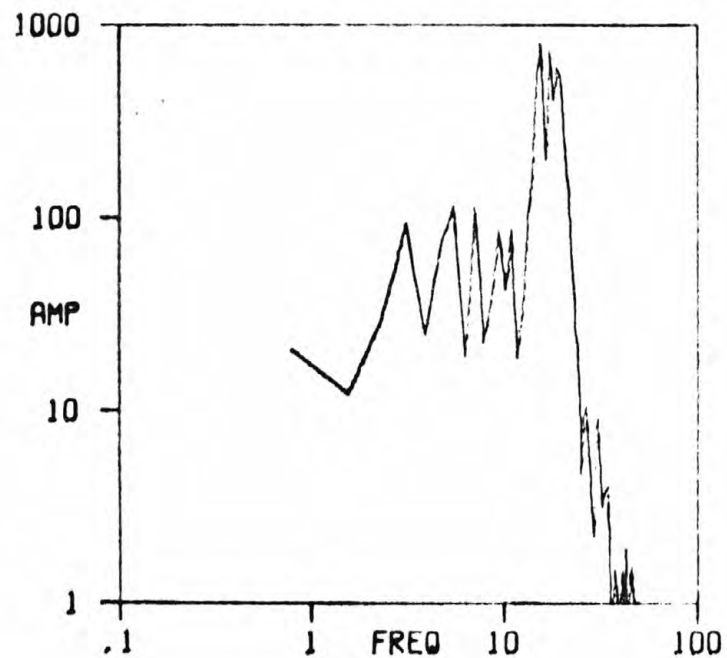
RECORDER LOCATION 585

DISTANCE FROM SHOT (KM) = 264.091

TSCALE (CM/SEC) = 10.0



826



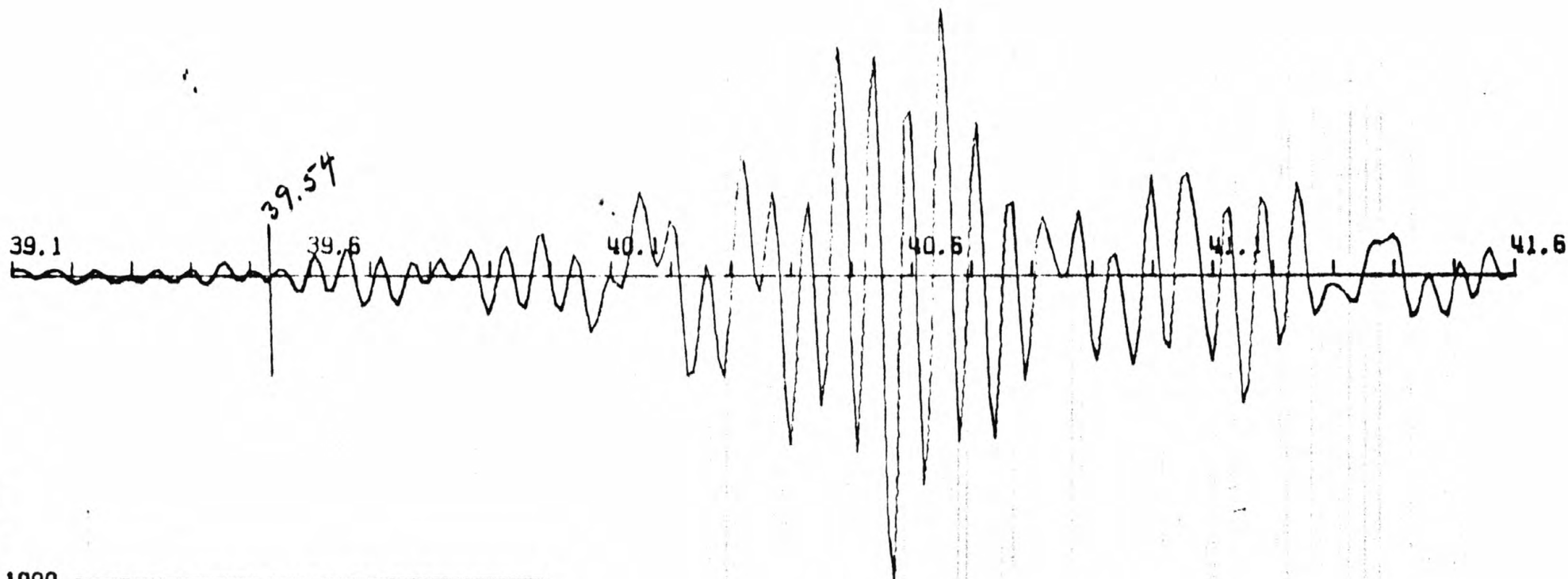
SAUDI REFRACTION PROFILE 15,20 BP

SHOT POINT 6

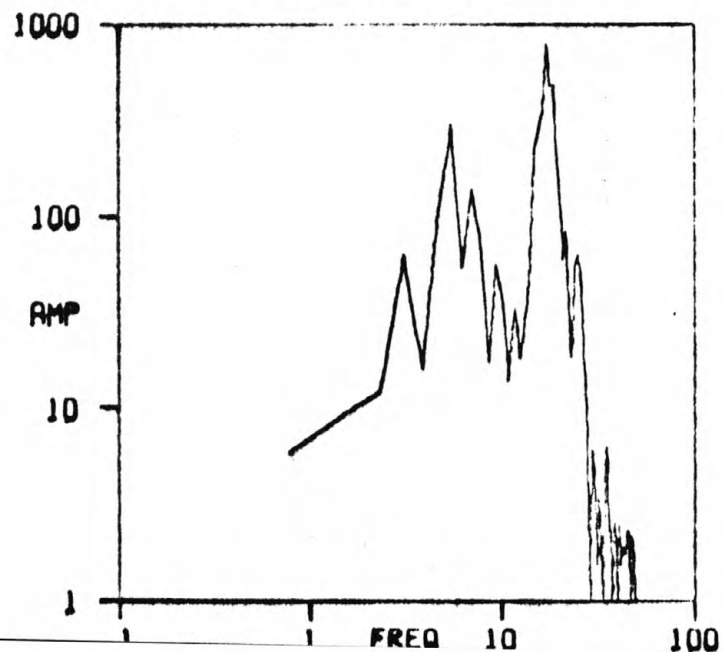
RECORDER LOCATION 584

DISTANCE FROM SHOT (KM) = 266.249

TSCALE (CM/SEC) = 10.0



827



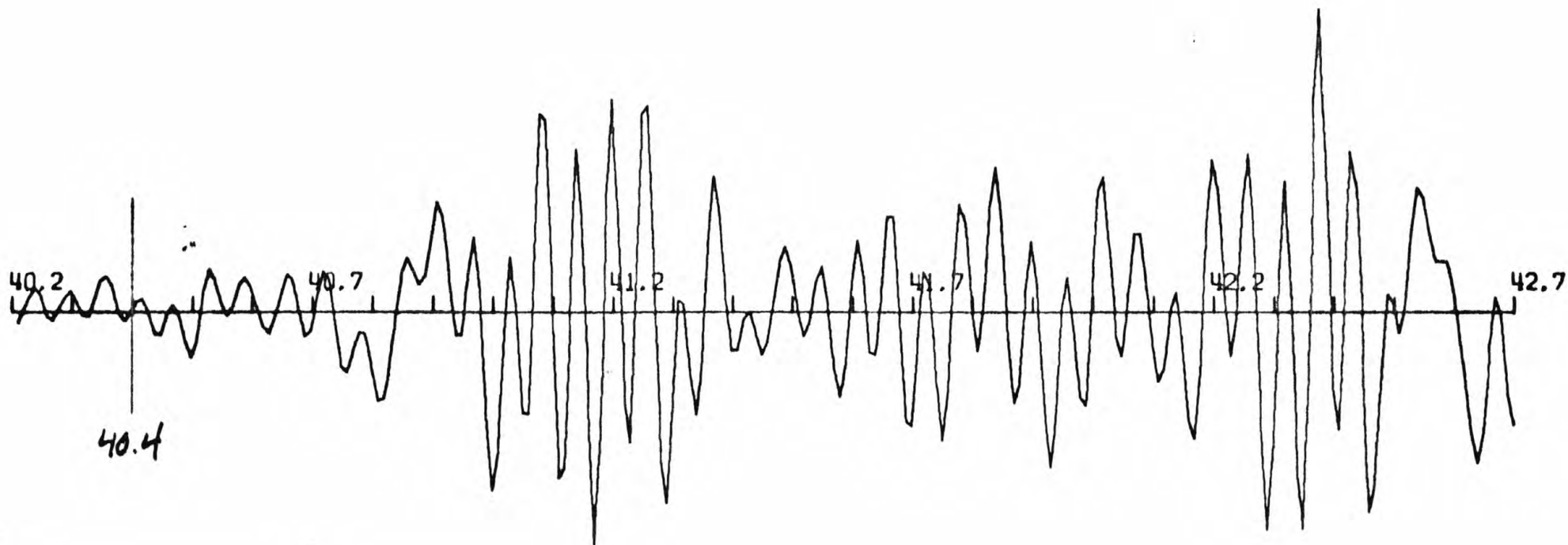
SAUDI REFRACTION PROFILE 15,20 BP

SHOT POINT 6

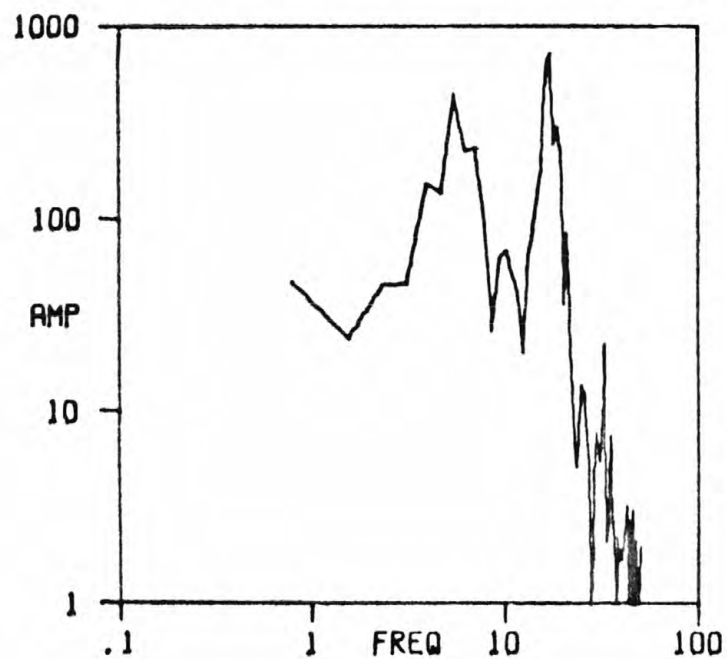
RECORDER LOCATION 582

DISTANCE FROM SHOT (KM) = 270.121

TSCALE (CM/SEC) = 10.0



828



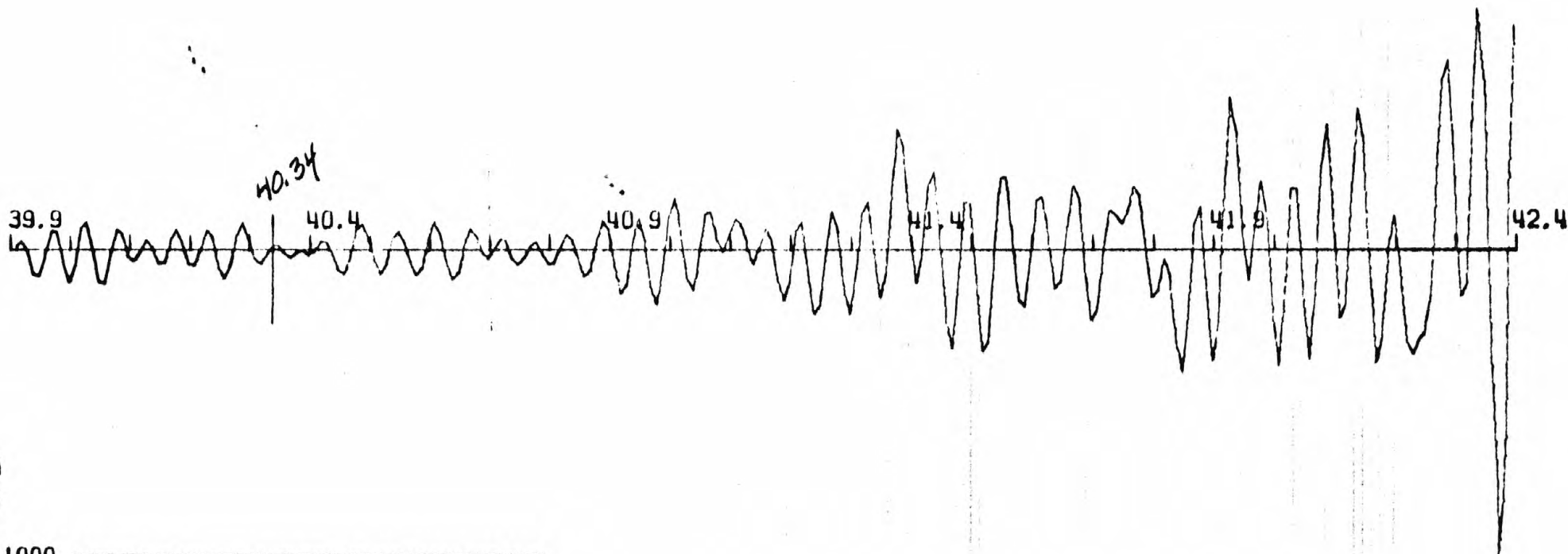
SAUDI REFRACTION PROFILE 15.20

SHOT POINT 6

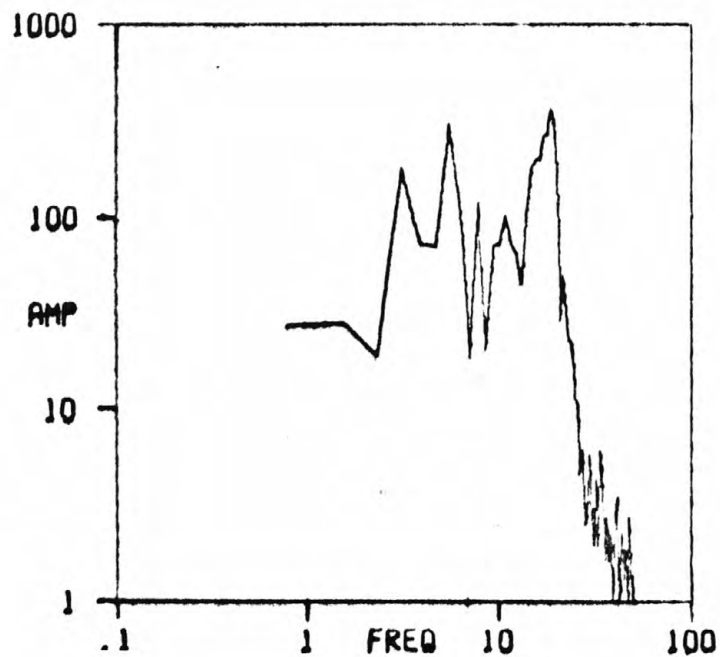
RECORDER LOCATION 580

DISTANCE FROM SHOT (KM) = 276.659

TSCALE (CM/SEC) = 10.0



829



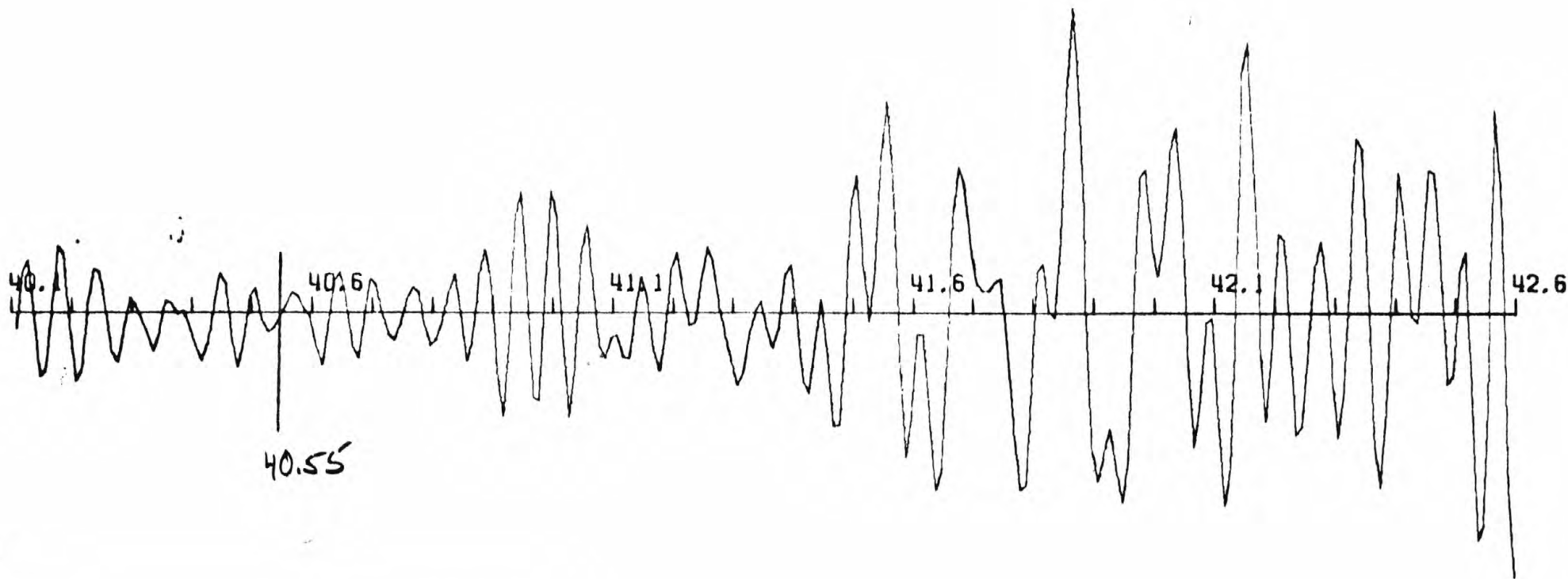
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 6

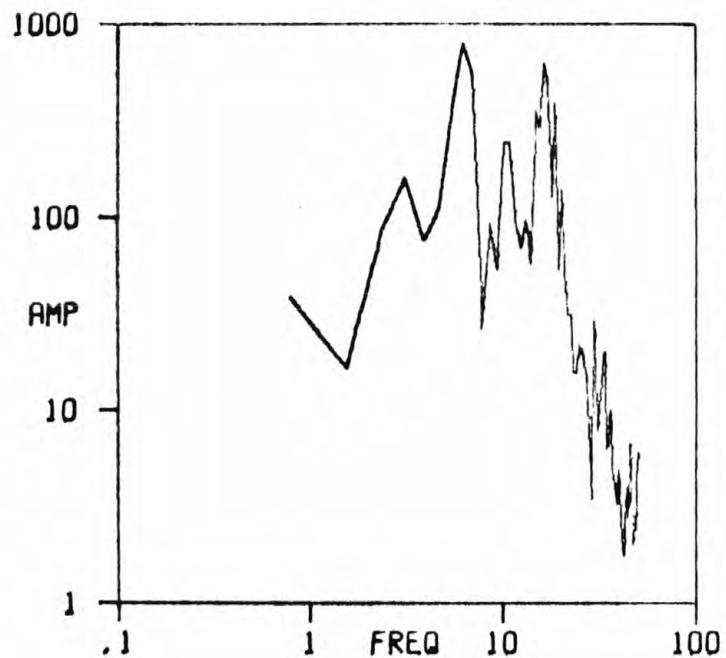
RECORDER LOCATION 577

DISTANCE FROM SHOT (KM) = 280.976

TSCALE (CM/SEC) = 10.0



830



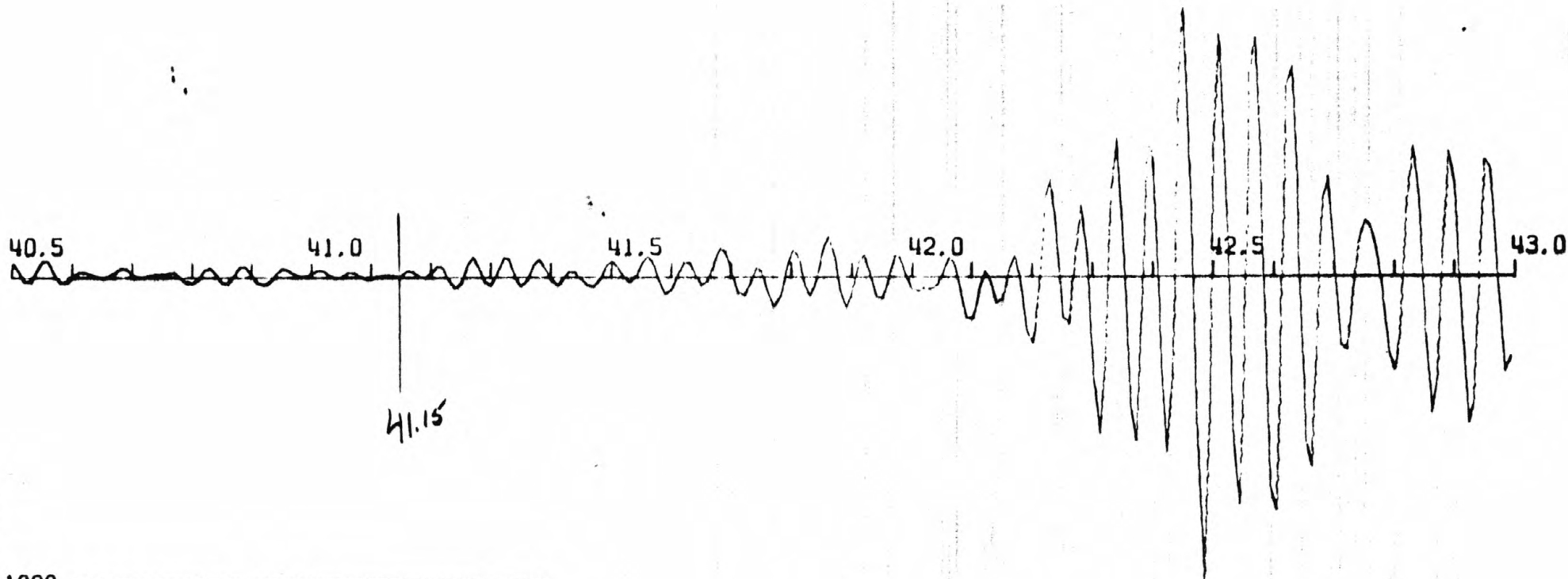
SAUDI REFRACTION PROFILE 15,20 BP

SHOT POINT 6

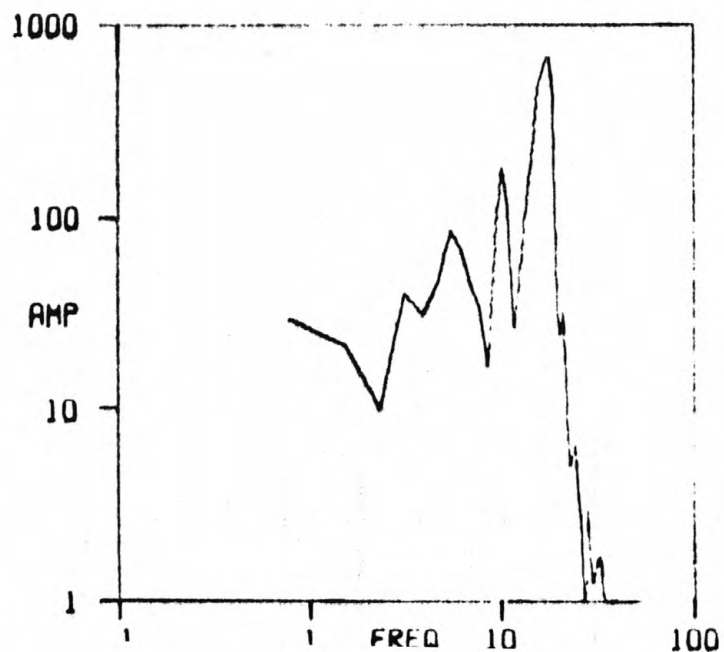
RECORDER LOCATION 576

DISTANCE FROM SHOT (KM) = 282.289

TSCALE (CM/SEC) = 10.0



831



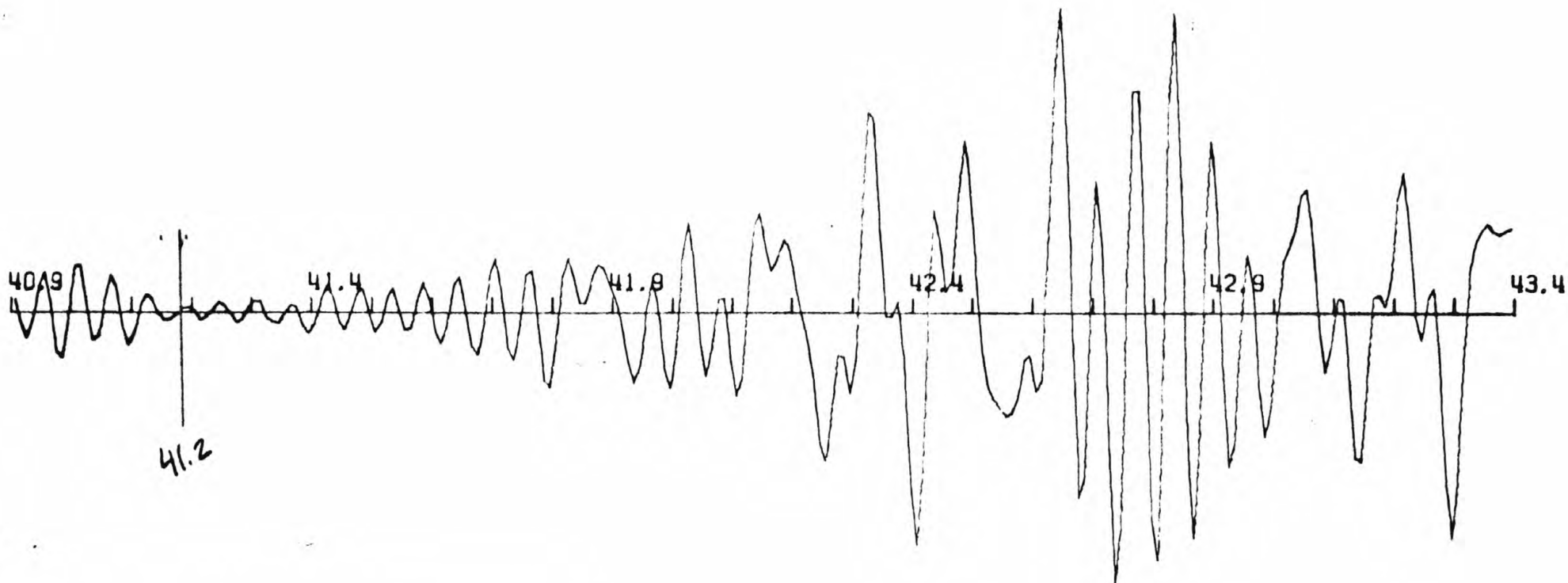
SAUDI REFRACTION PROFILE 15,20 BP

SHOT POINT 6

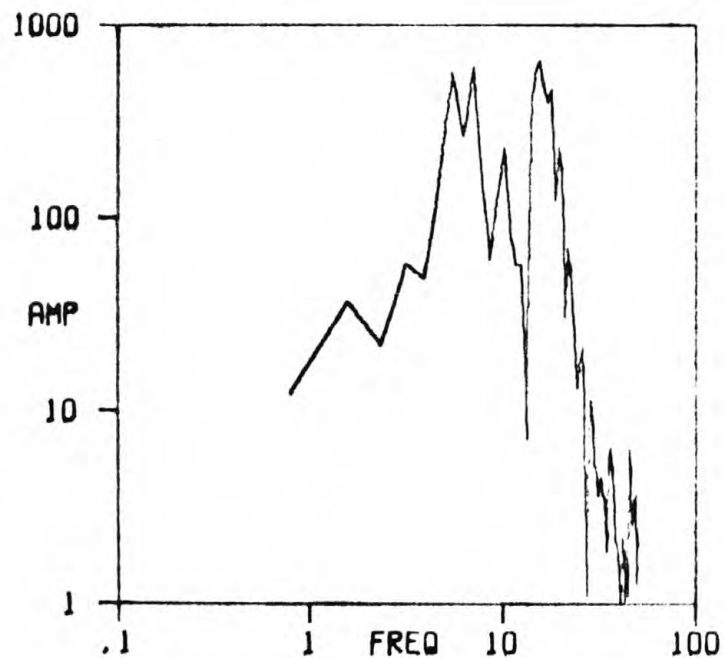
RECORDER LOCATION 575

DISTANCE FROM SHOT (KM) = 284.659

TSCALE (CM/SEC) = 10.0



832



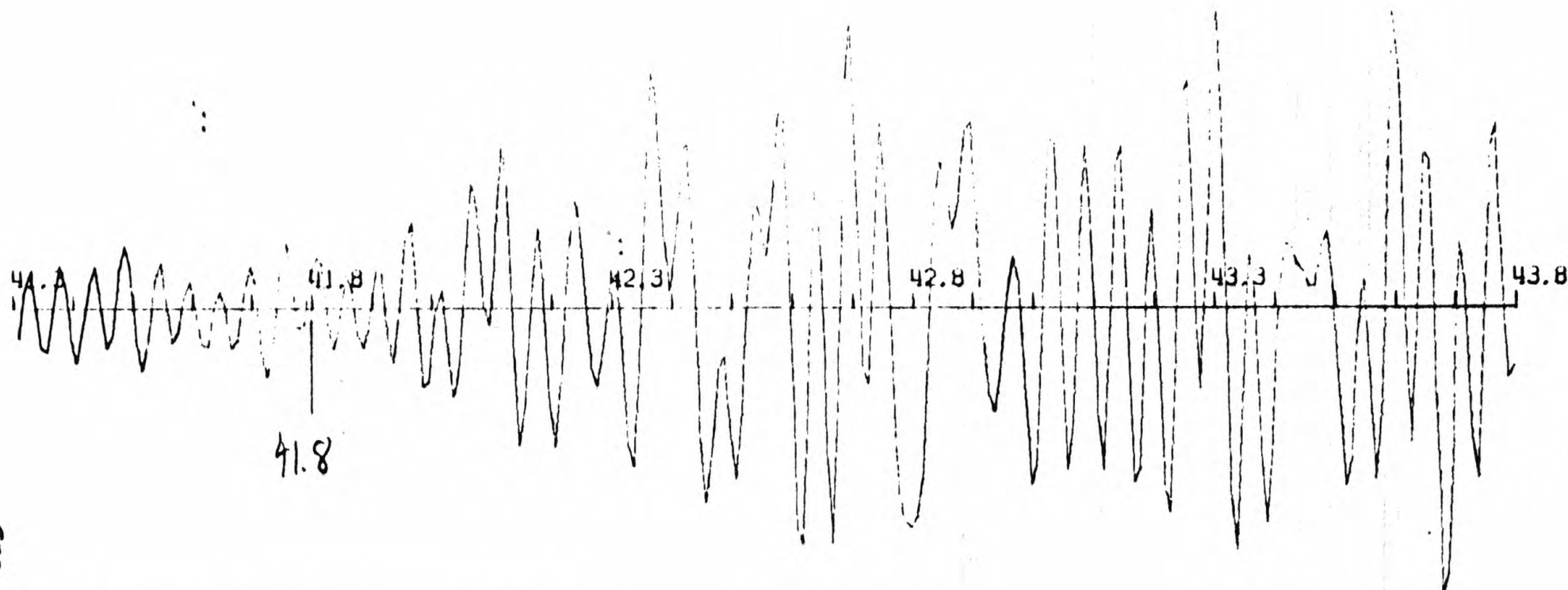
SAUDI REFRACTION PROFILE 15,20 BP

SHOT POINT 6

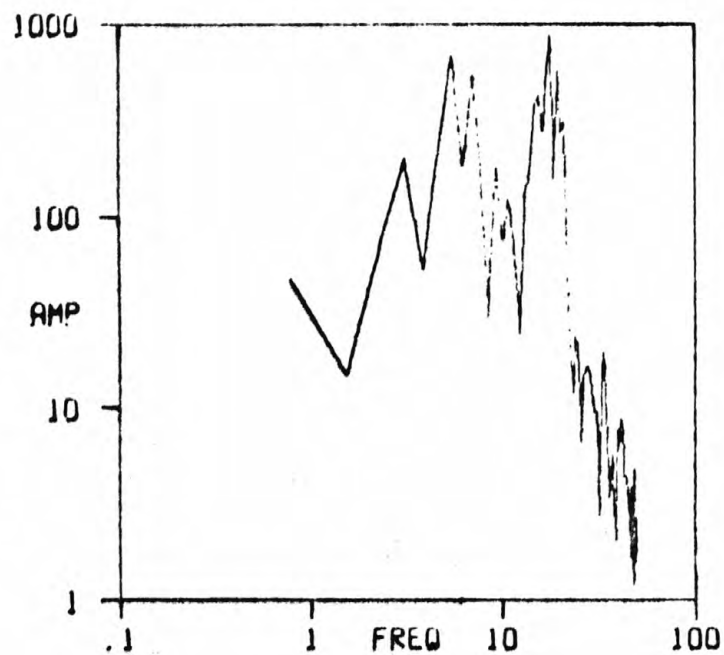
RECORDER LOCATION 574

DISTANCE FROM SHOT (KM) = 287.145

TSCALE (CM/SEC) = 10.0



833



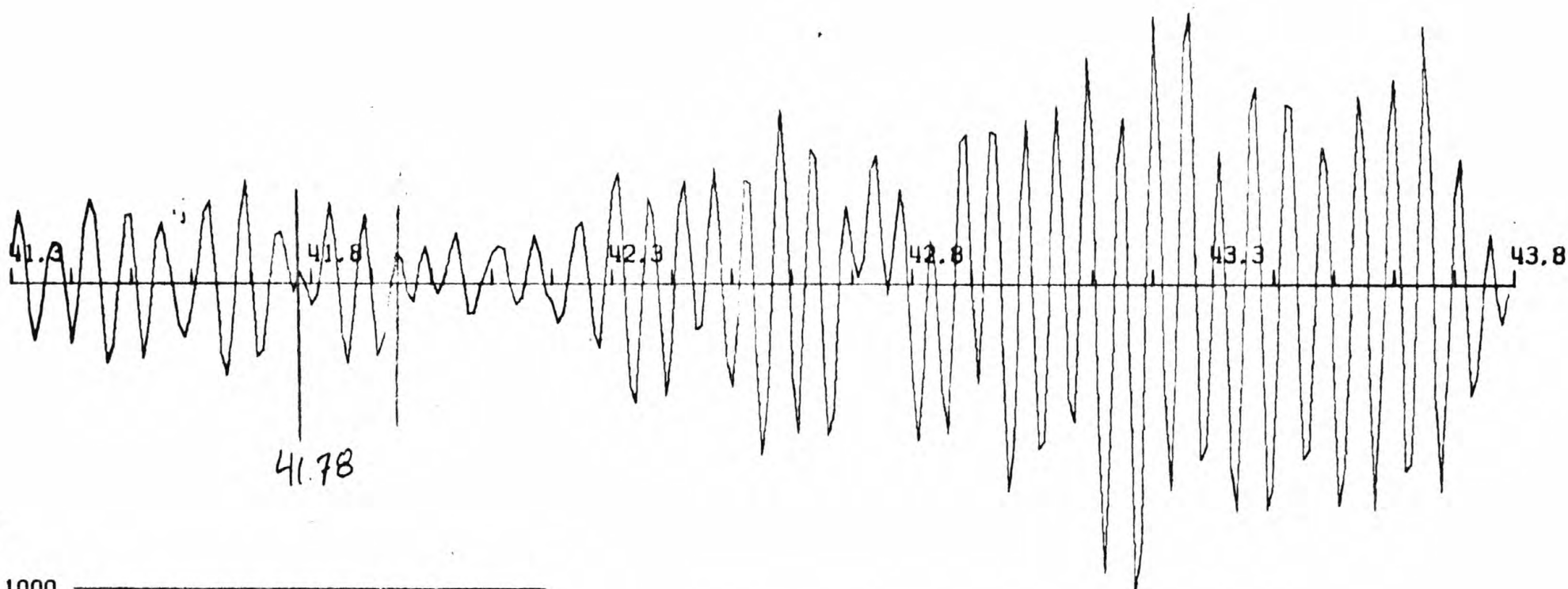
SAUDI REFRACTION PROFILE 15,20 BP

SHOT POINT 6

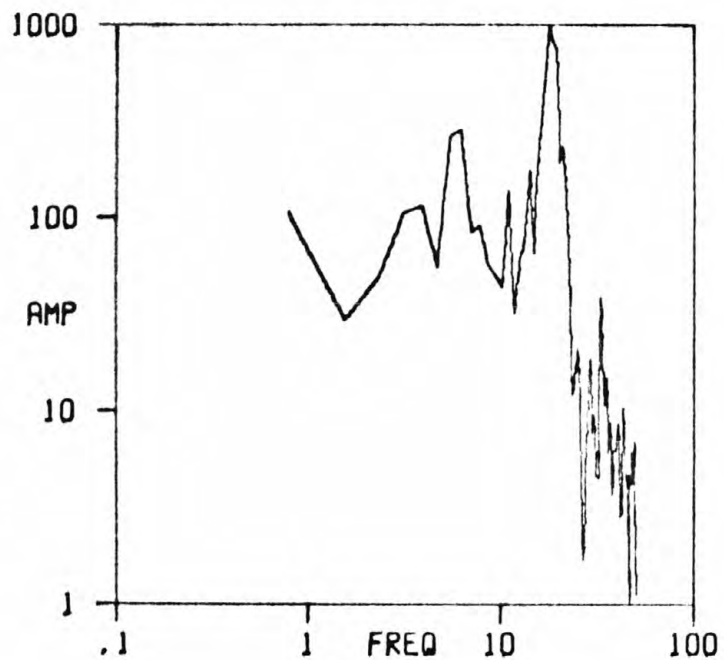
RECORDER LOCATION 573

DISTANCE FROM SHOT (KM) = 289.246

TSCALE (CM/SEC) = 10.0



834



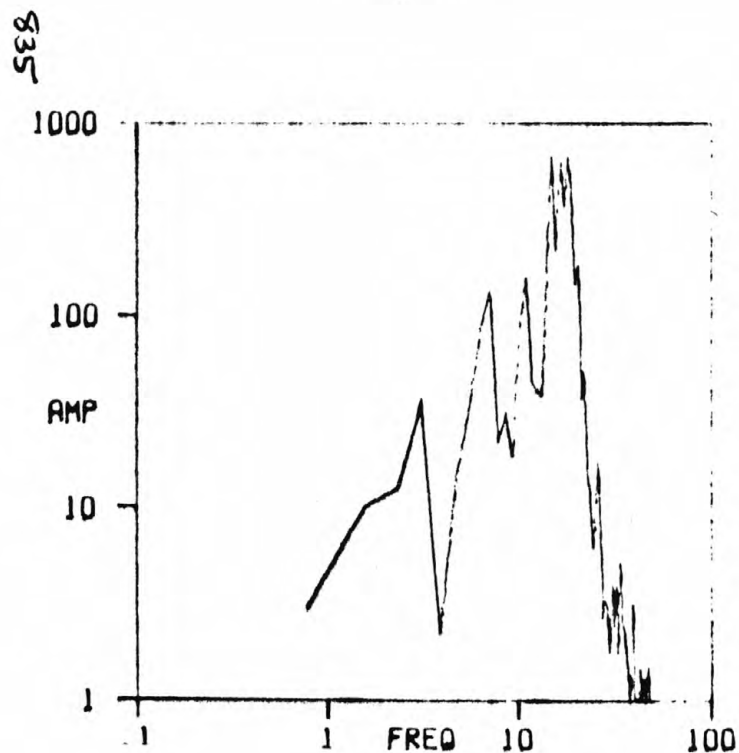
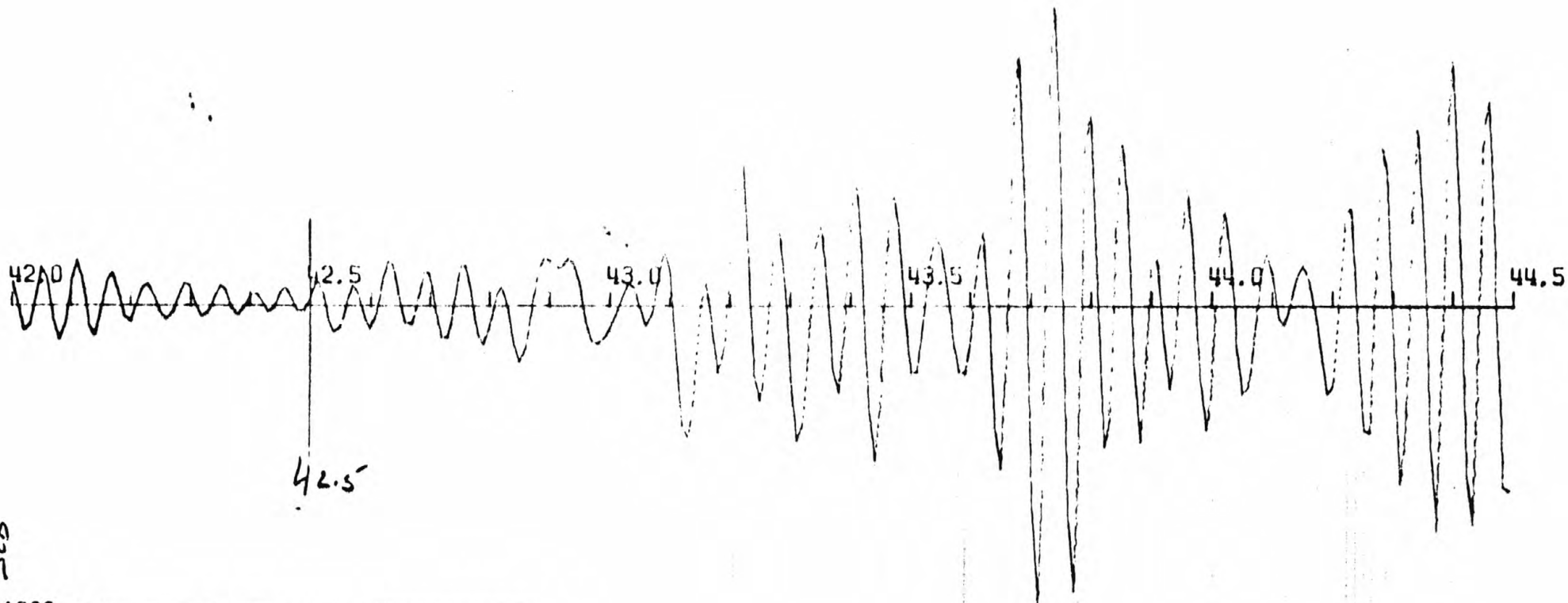
SAUDI REFRACTION PROFILE 15,20 BP

SHOT POINT 6

RECORDER LOCATION 572

DISTANCE FROM SHOT (KM) = 292.330

TSCALE (CM/SEC) = 10.0



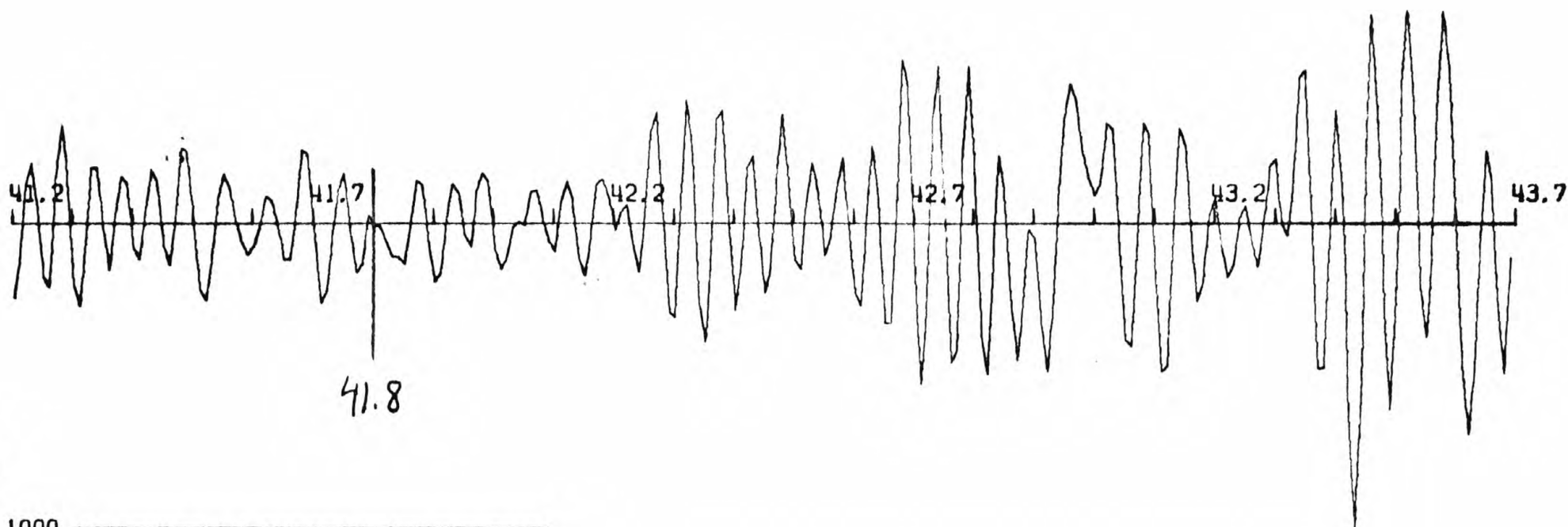
SAUDI REFRACTION PROFILE 15,20 BP

SHOT POINT 6

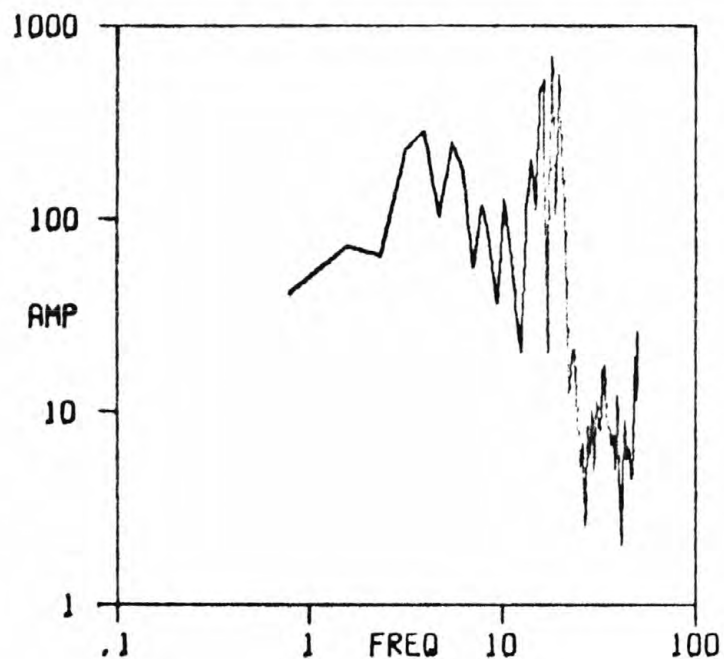
RECORDER LOCATION 571

DISTANCE FROM SHOT (KM) = 293.892

TSCALE (CM/SEC) = 10.0



836



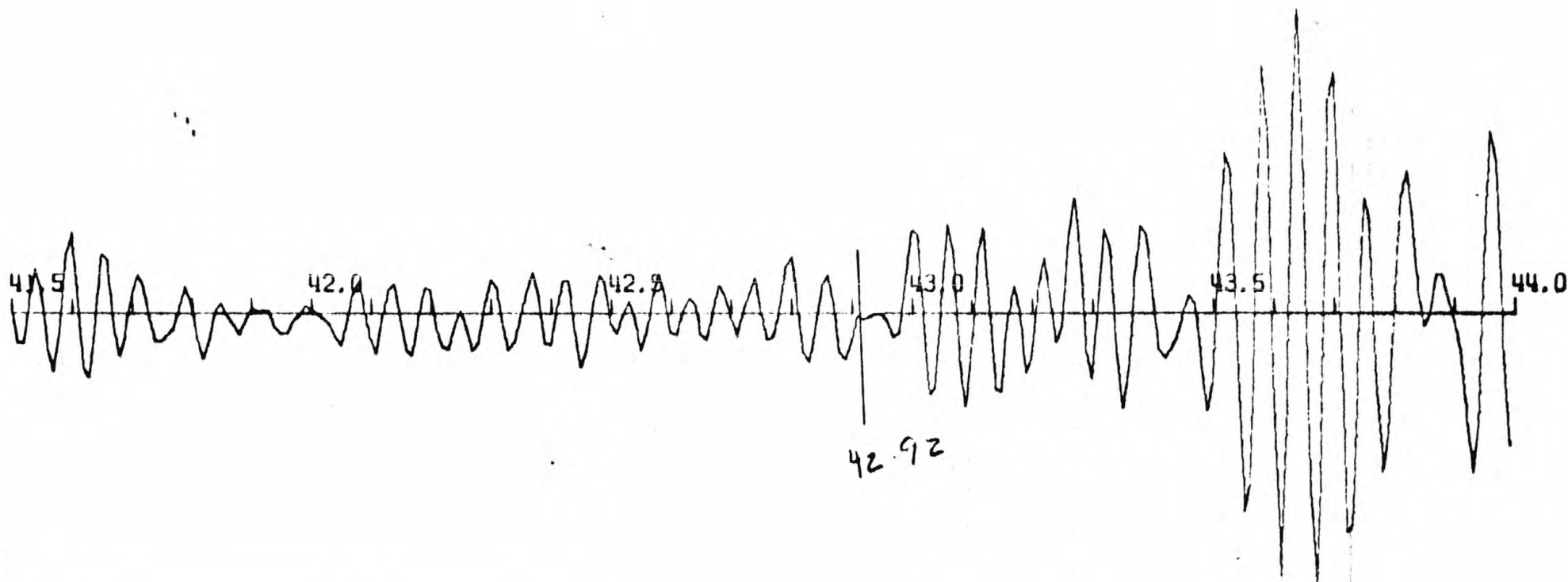
SAUDI REFRACTION PROFILE 15,20 BP

SHOT POINT 6

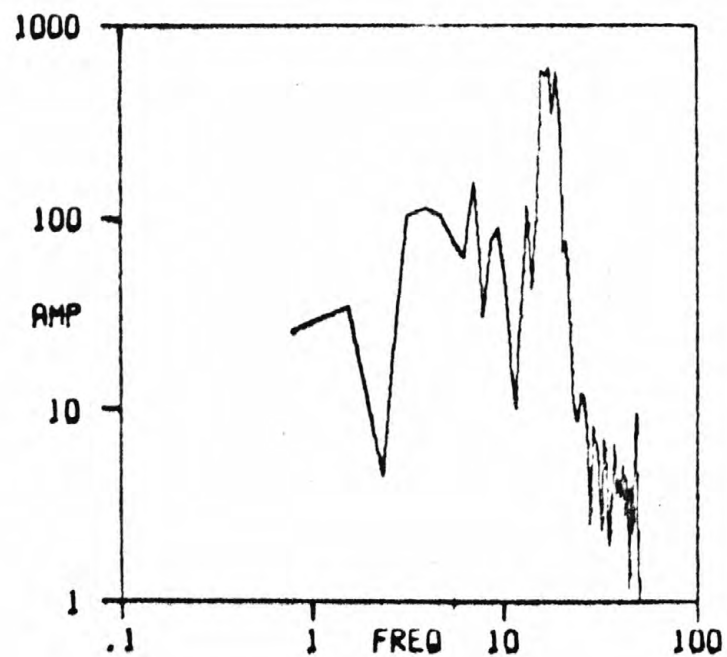
RECORDER LOCATION 570

DISTANCE FROM SHOT (KM) = 294.860

TSCALE (CM/SEC) = 10.0



837



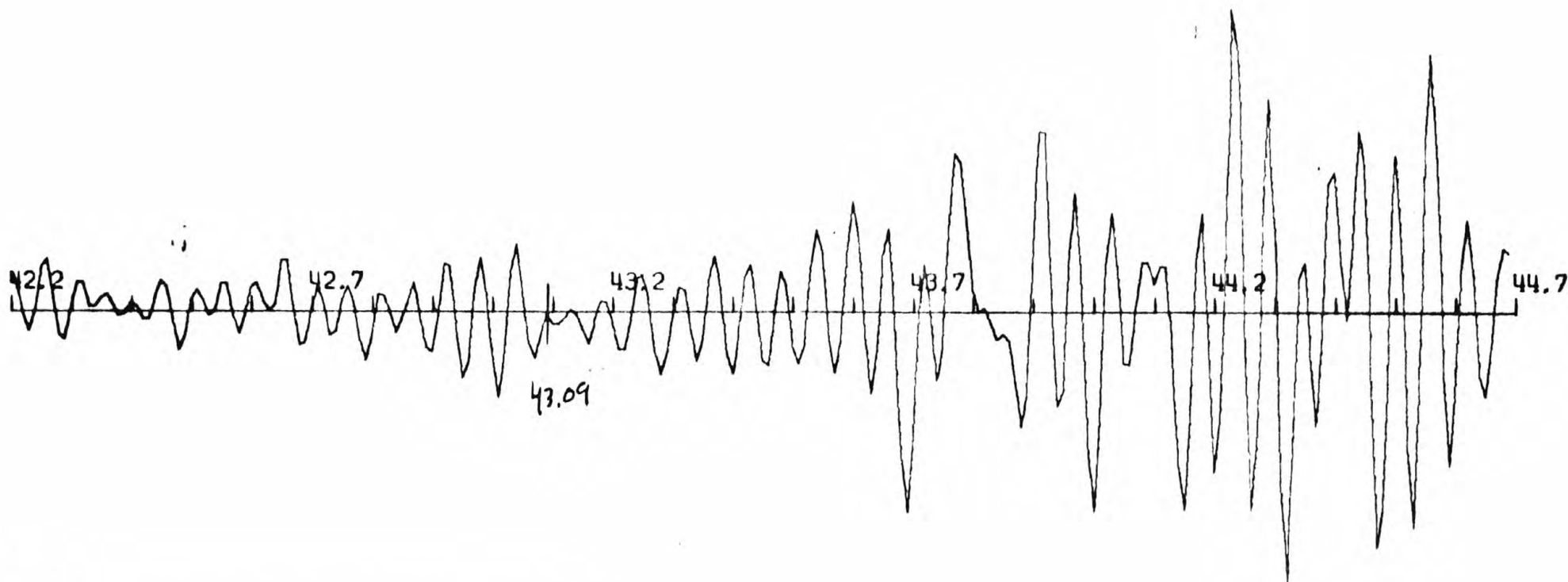
SAUDI REFRACTION PROFILE 15,20 BP

SHOT POINT 6

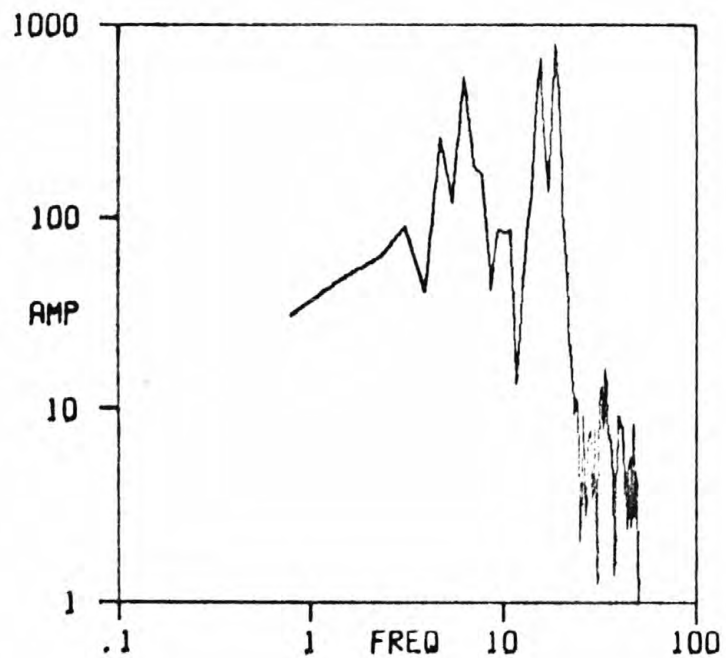
RECORDER LOCATION 569

DISTANCE FROM SHOT (KM) = 296,523

TSCALE (CM/SEC) = 10.0



838



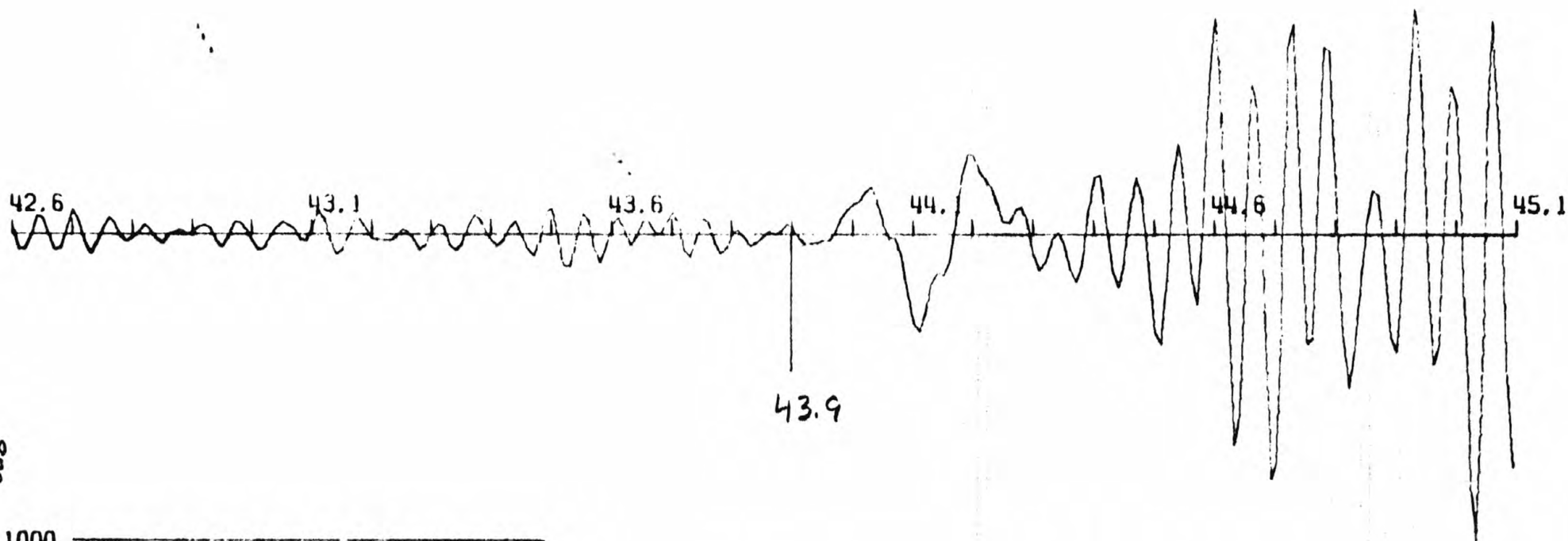
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 6

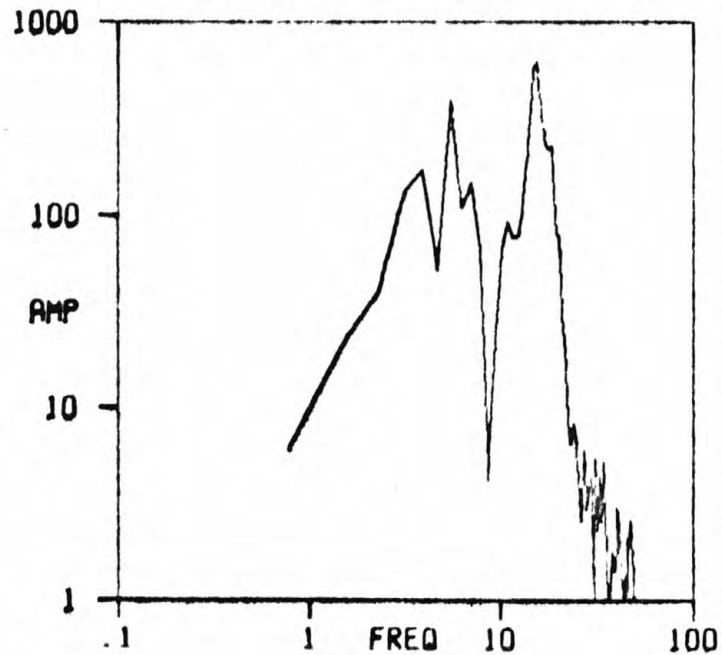
RECORDER LOCATION 567

DISTANCE FROM SHOT (KM) = 300.781

TSCALE (CM/SEC) = 10.0



839



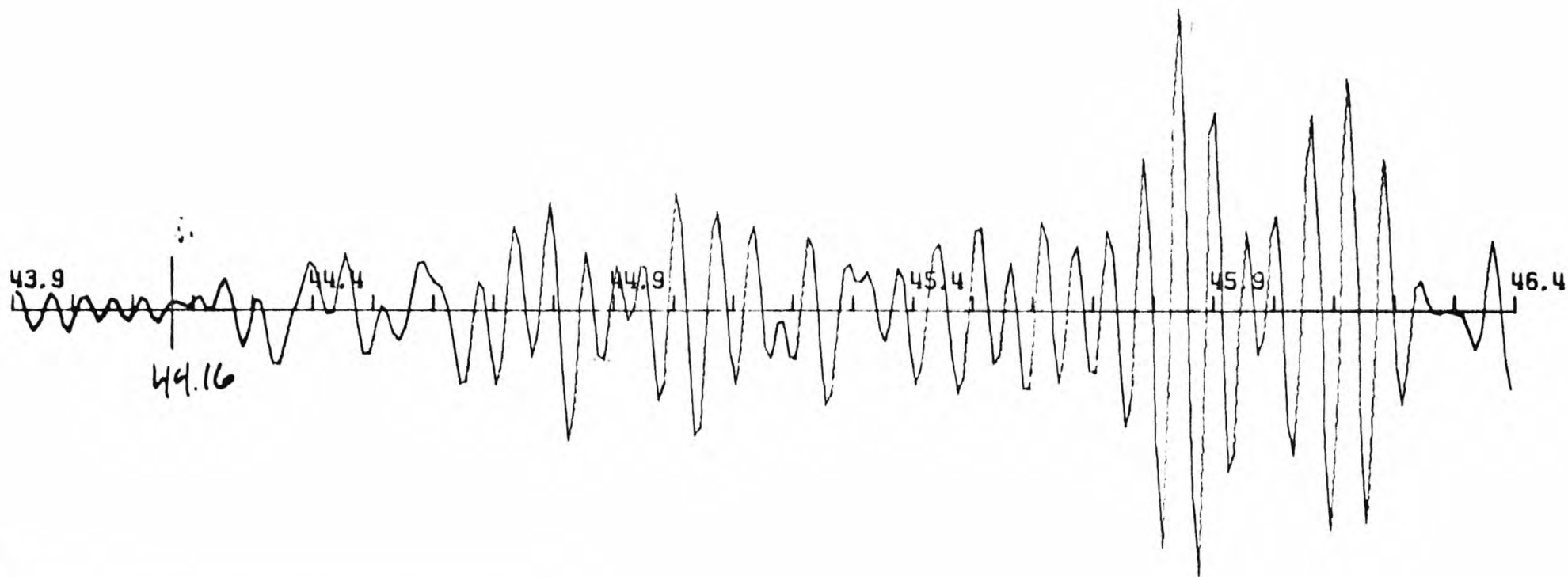
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 6

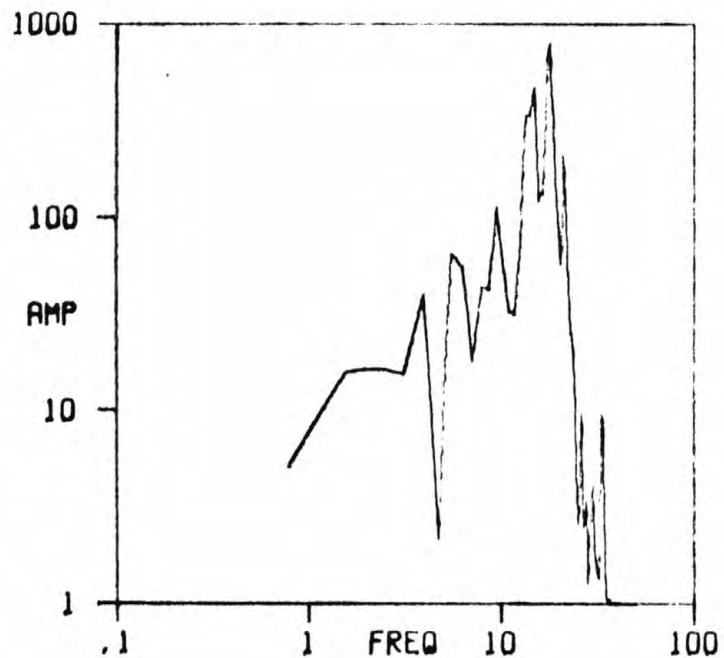
RECORDER LOCATION 566

DISTANCE FROM SHOT (KM) = 303.557

TSCALE (CM/SEC) = 10.0



048



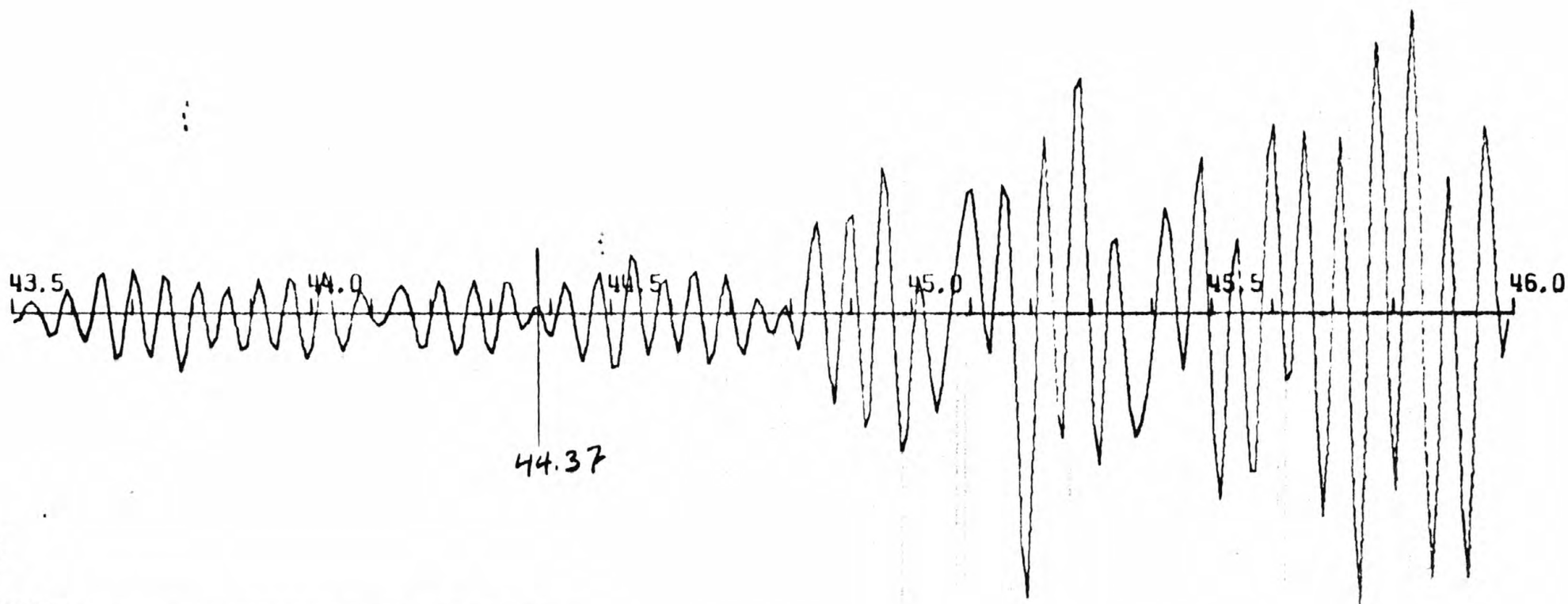
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 6

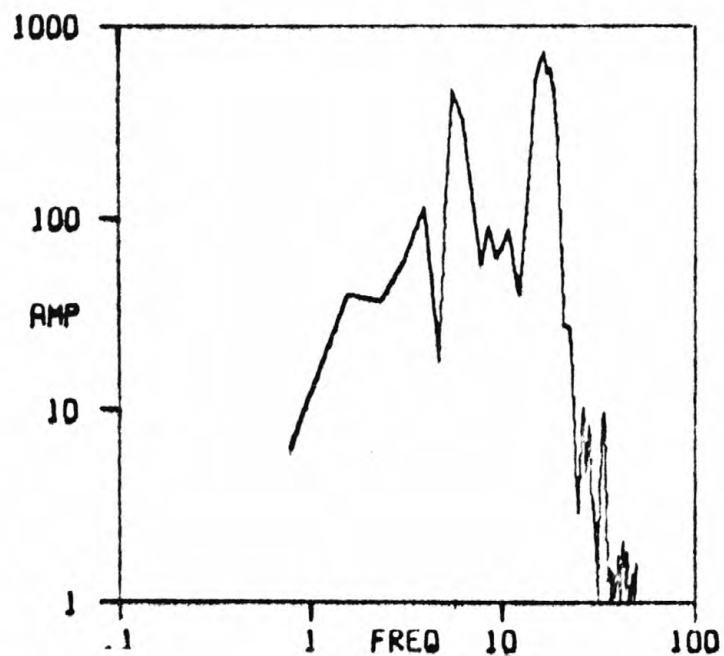
RECORDER LOCATION 565

DISTANCE FROM SHOT (KM) = 304.836

TSCALE (CM/SEC) = 10.0



341



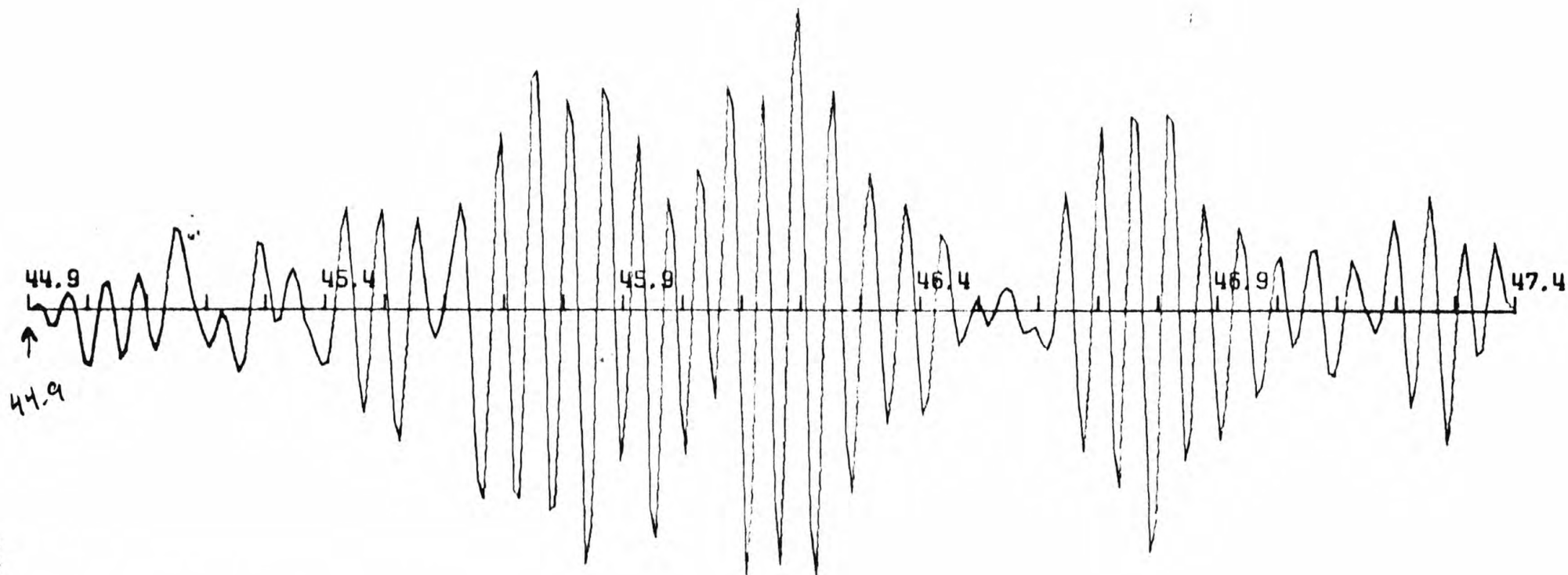
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 6

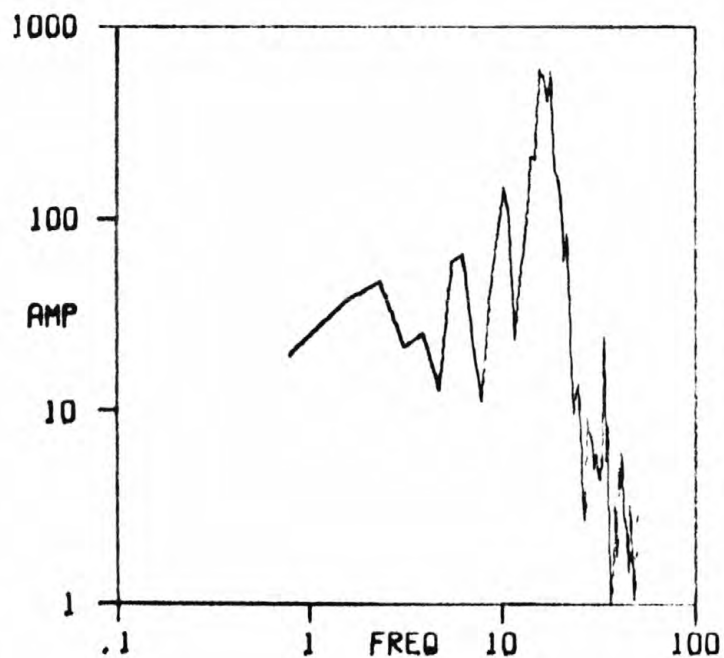
RECORDER LOCATION 563

DISTANCE FROM SHOT (KM) = 308.902

TSCALE (CM/SEC) = 10.0



842



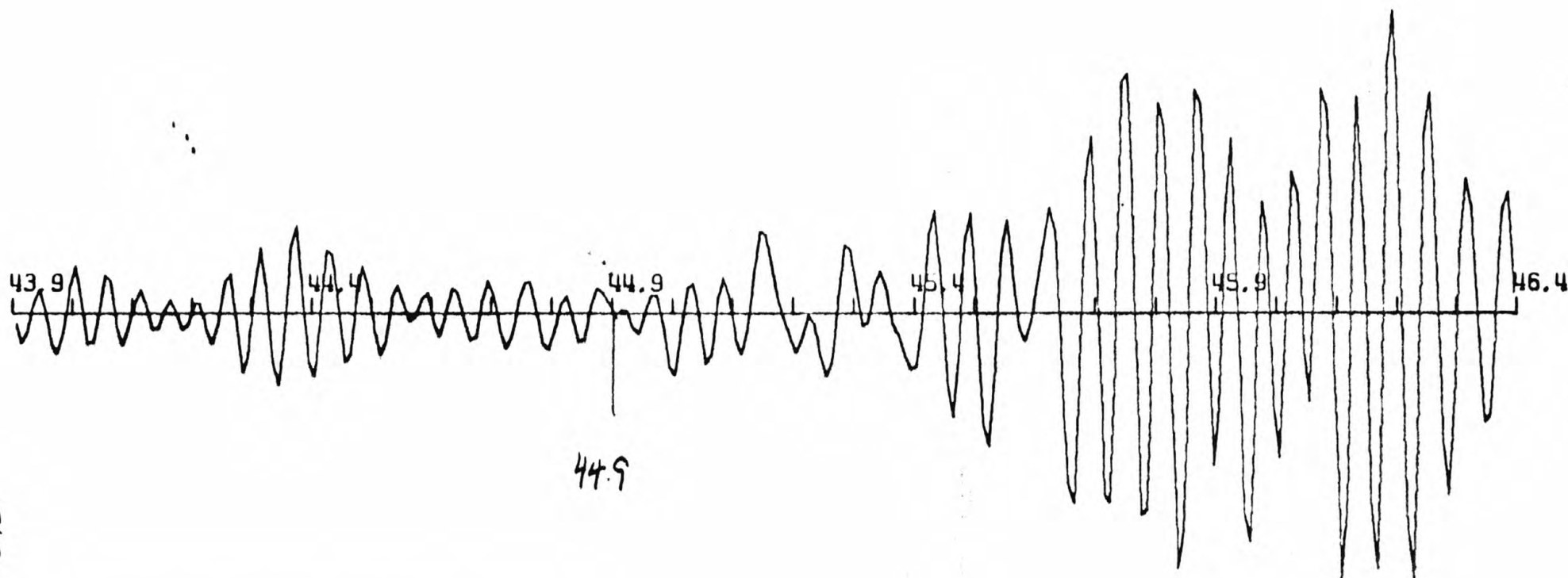
SAUDI REFRACTION PROFILE 15,20 BP

SHOT POINT 6

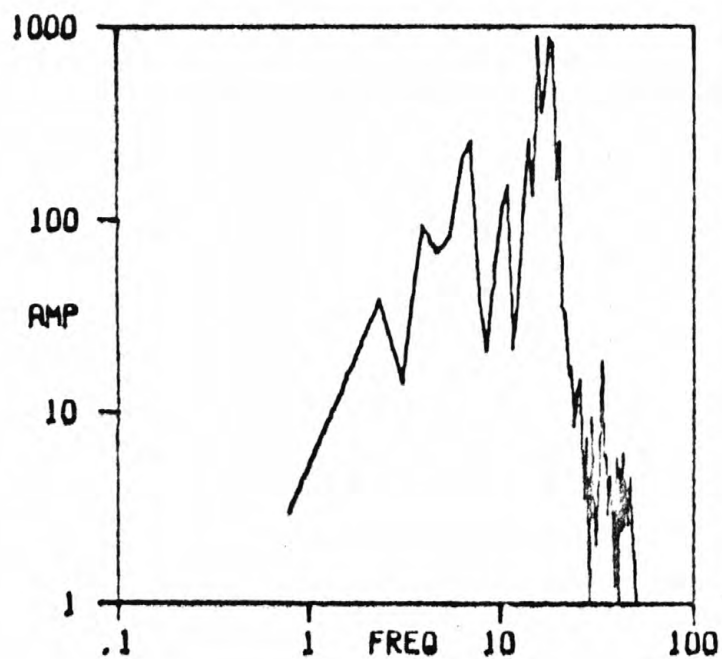
RECORDER LOCATION 562

DISTANCE FROM SHOT (KM) = 311.144

TSCALE (CM/SEC) = 10.0



543



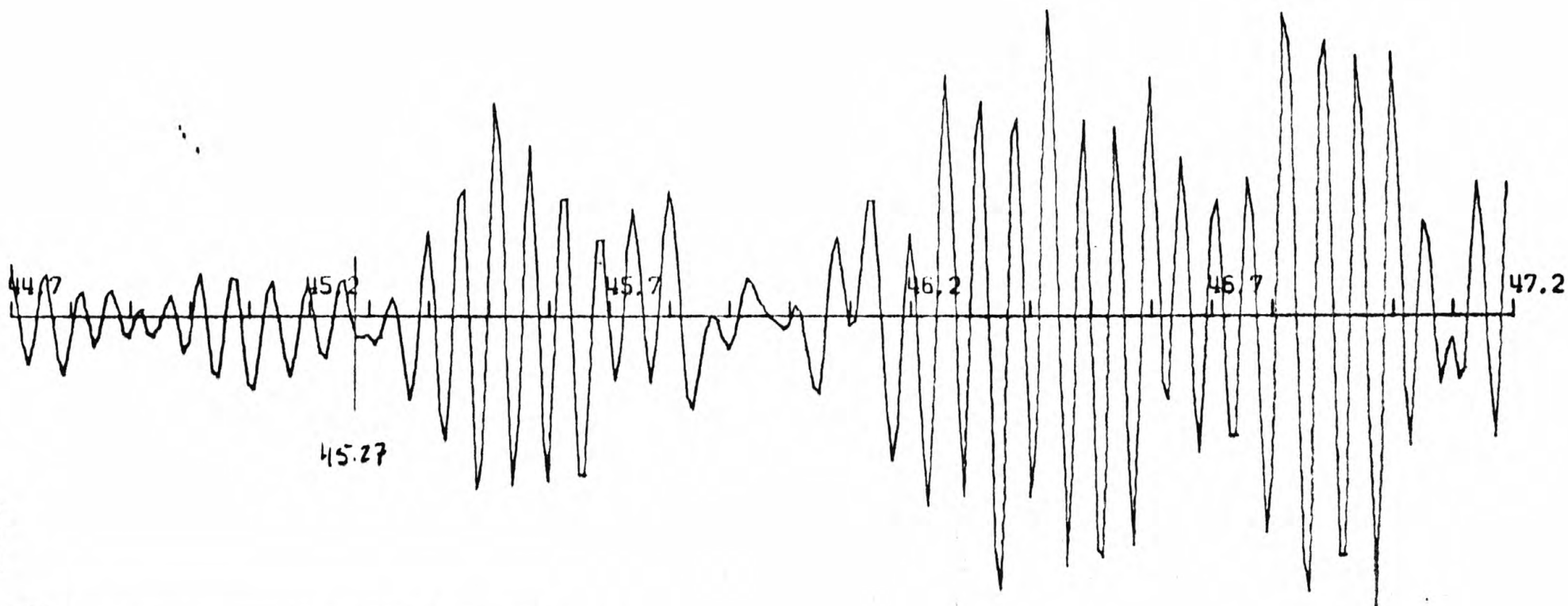
SAUDI REFRACTION PROFILE 15,20 BP

SHOT POINT 6

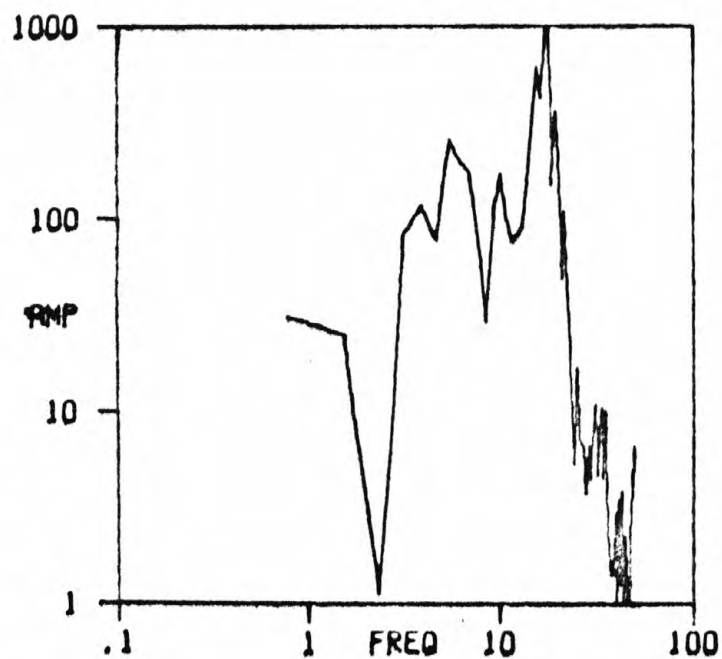
RECORDER LOCATION 562

DISTANCE FROM SHOT (KM) = 311.144

TSCALE (CM/SEC) = 10.0



548



SAUDI REFRACTION PROFILE 15.20 BP

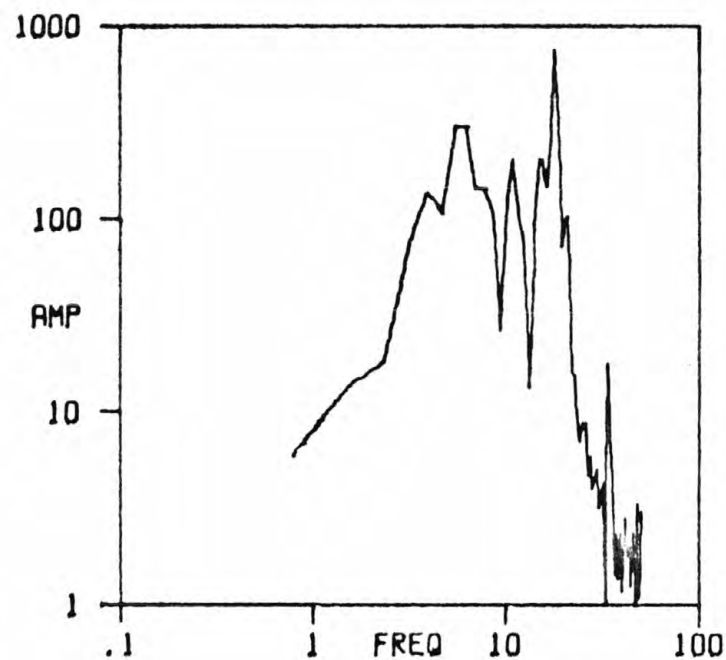
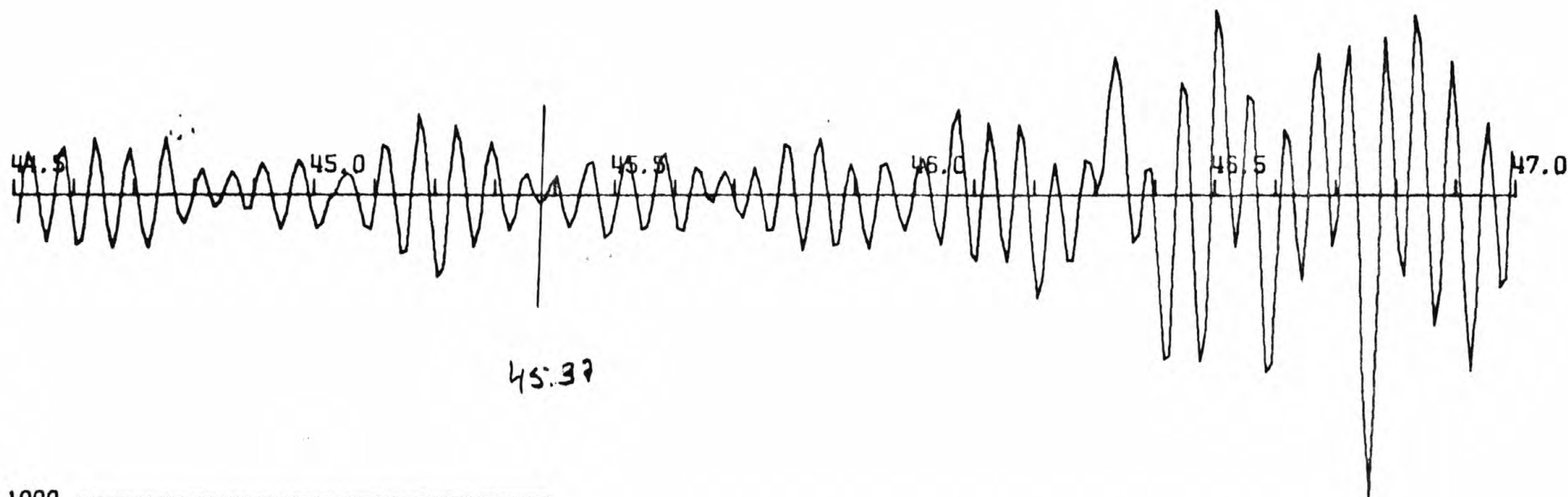
SHOT POINT 6

RECORDER LOCATION 560

DISTANCE FROM SHOT (KM) = 316.146

TSCALE (CM/SEC) = 10.0

748



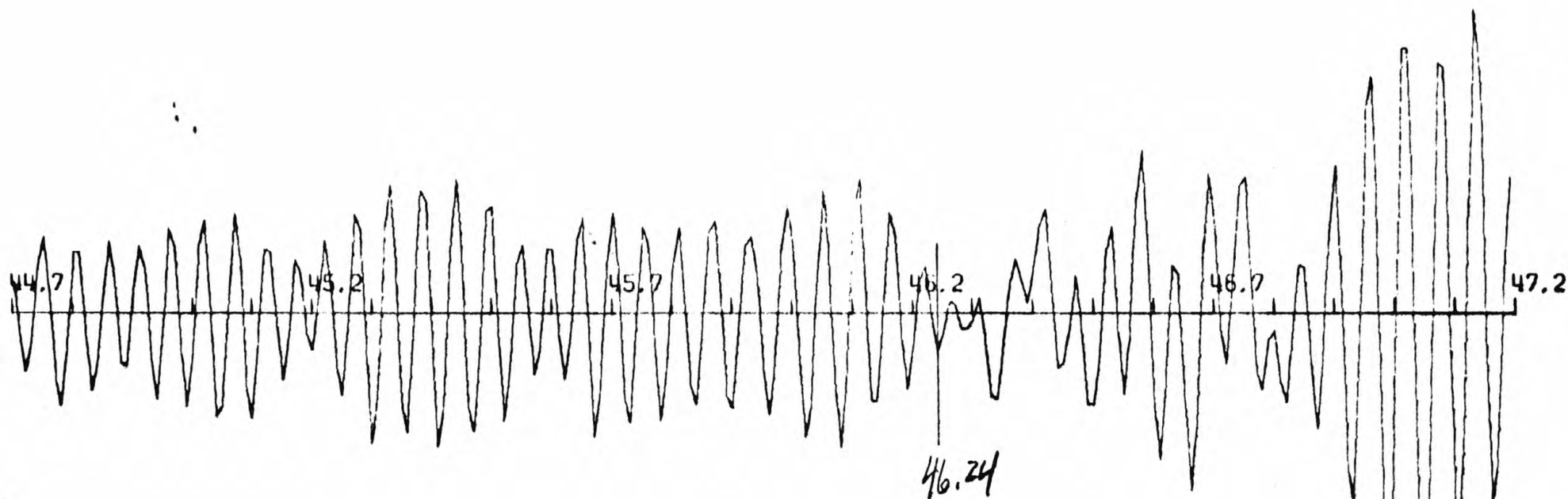
SAUDI REFRACTION PROFILE 15.20

SHOT POINT 6

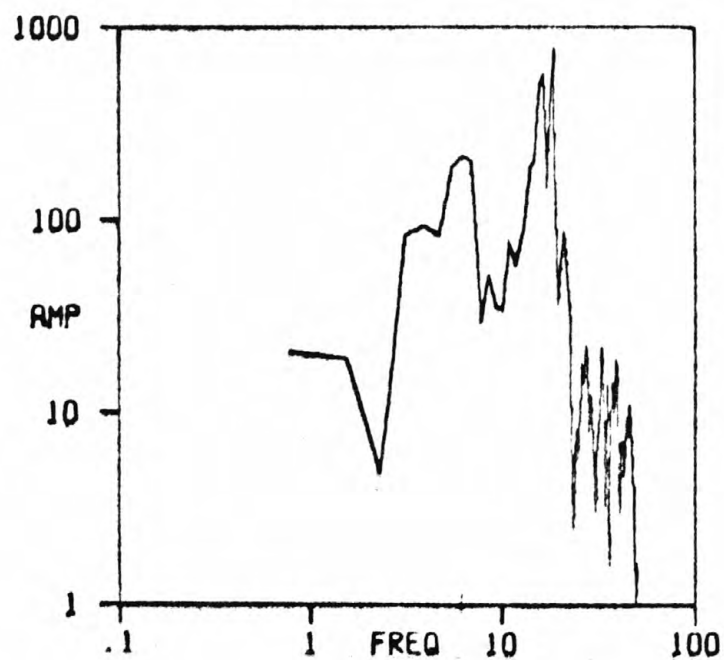
RECORDER LOCATION 558

DISTANCE FROM SHOT (KM) $\approx$ 320.798

TSCALE (CM/SEC) $\approx$ 10.0



847



SAUDI REFRACTION PROFILE 15.20 BP

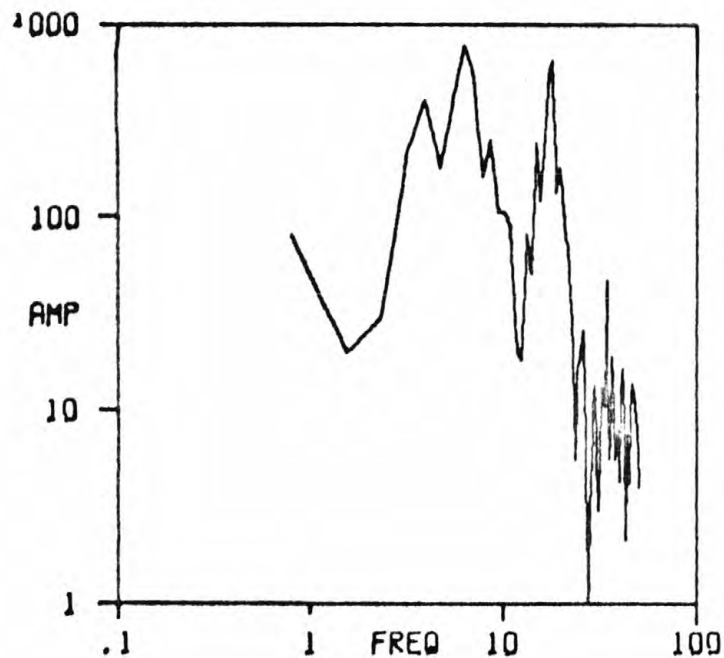
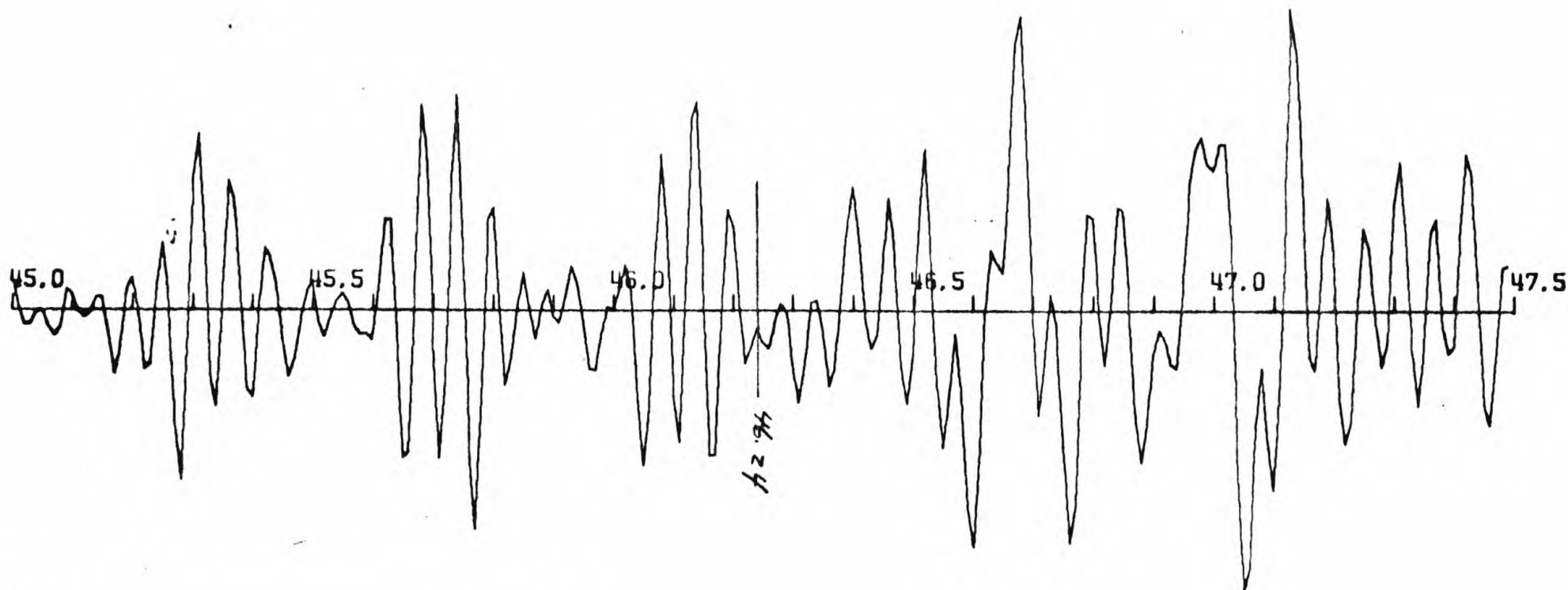
SHOT POINT 6

RECORDER LOCATION 557

DISTANCE FROM SHOT (KM) = 321.802

TSCALE (CM/SEC) = 10.0

848



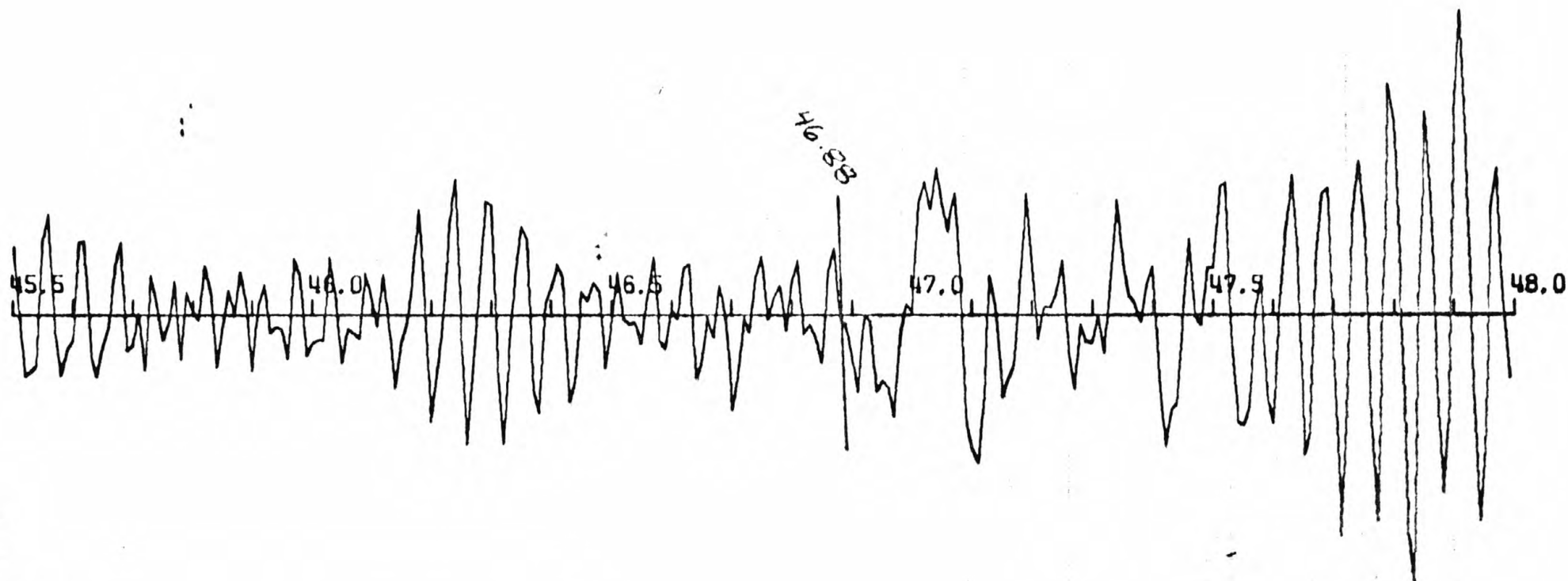
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 6

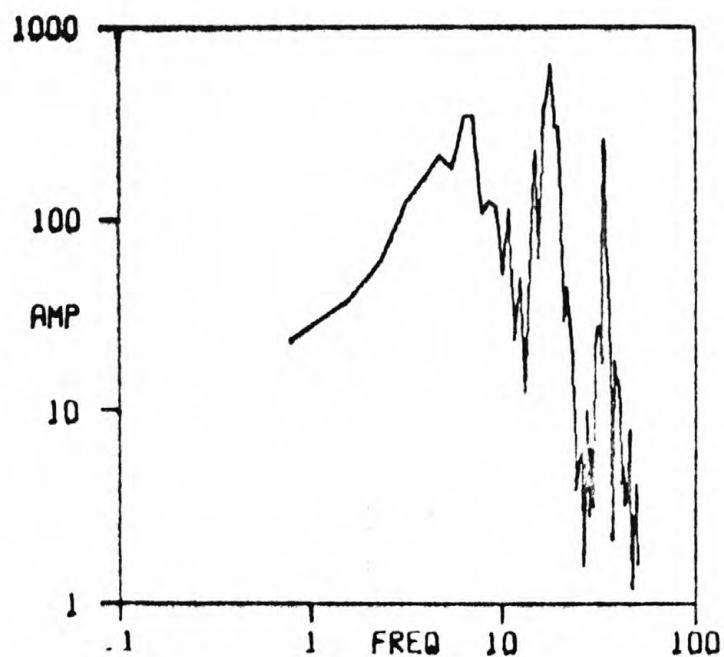
RECORDER LOCATION 556

DISTANCE FROM SHOT (KM) = 323.949

TSCALE (CM/SEC) = 10.0



648



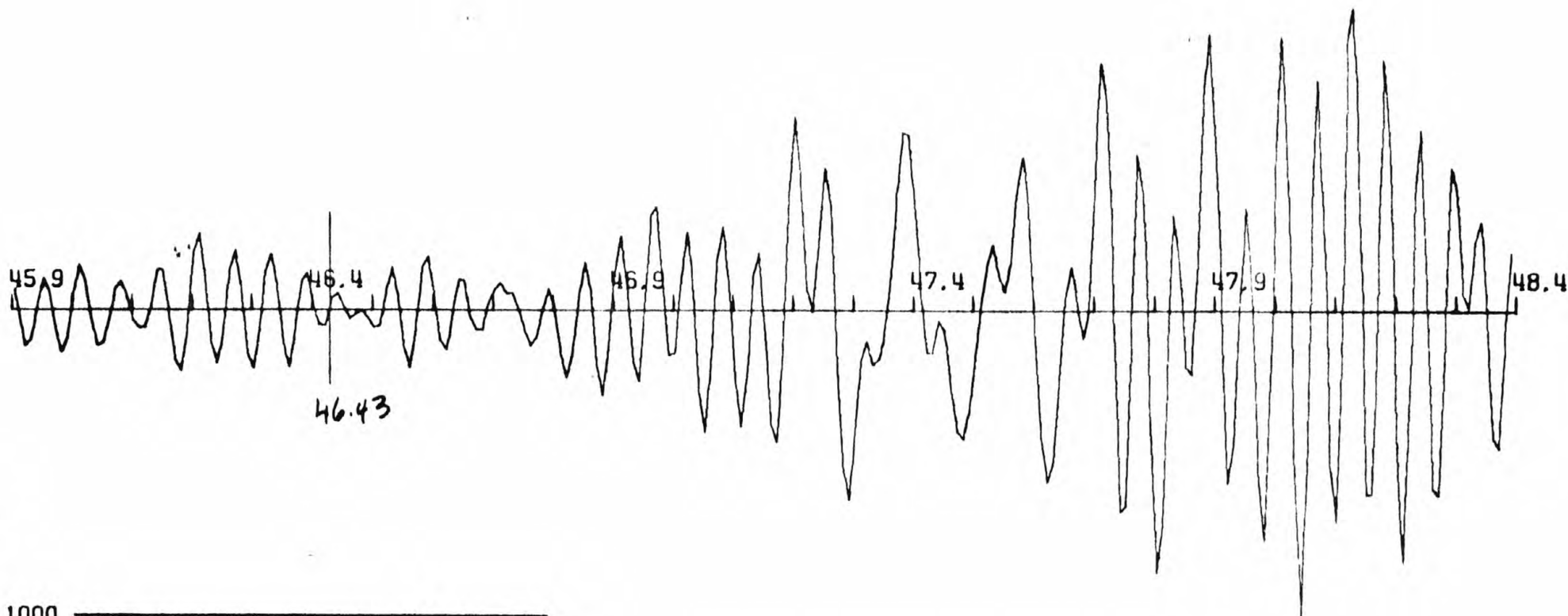
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 6

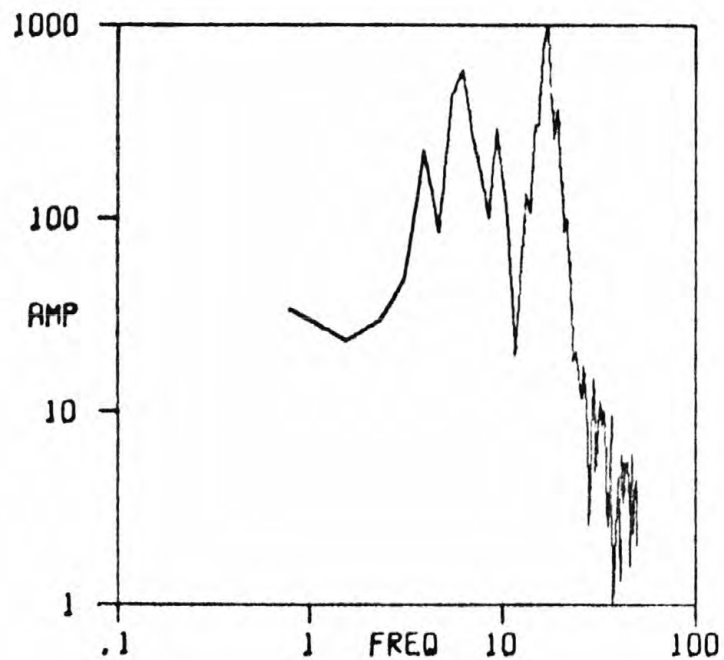
RECORDER LOCATION 554

DISTANCE FROM SHOT (KM) = 326.890

TSCALE (CM/SEC) = 10.0



850



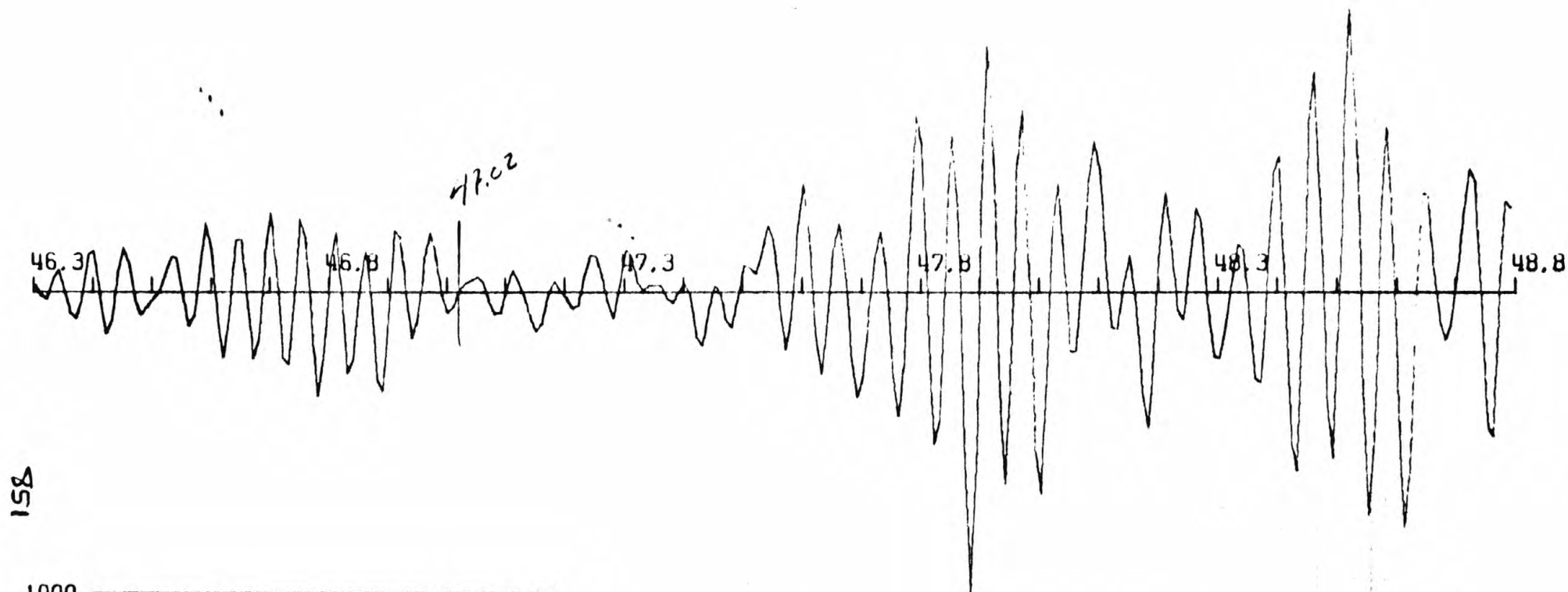
SAUDI REFRACTION PROFILE 15,20 BP

SHOT POINT 6

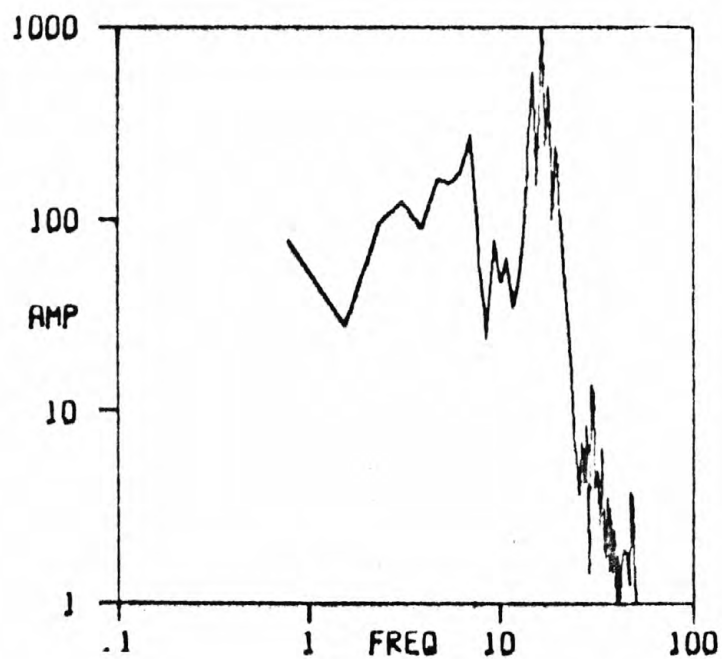
RECORDER LOCATION 553

DISTANCE FROM SHOT (KM) = 328.824

TSCALE (CM/SEC) = 10.0



158



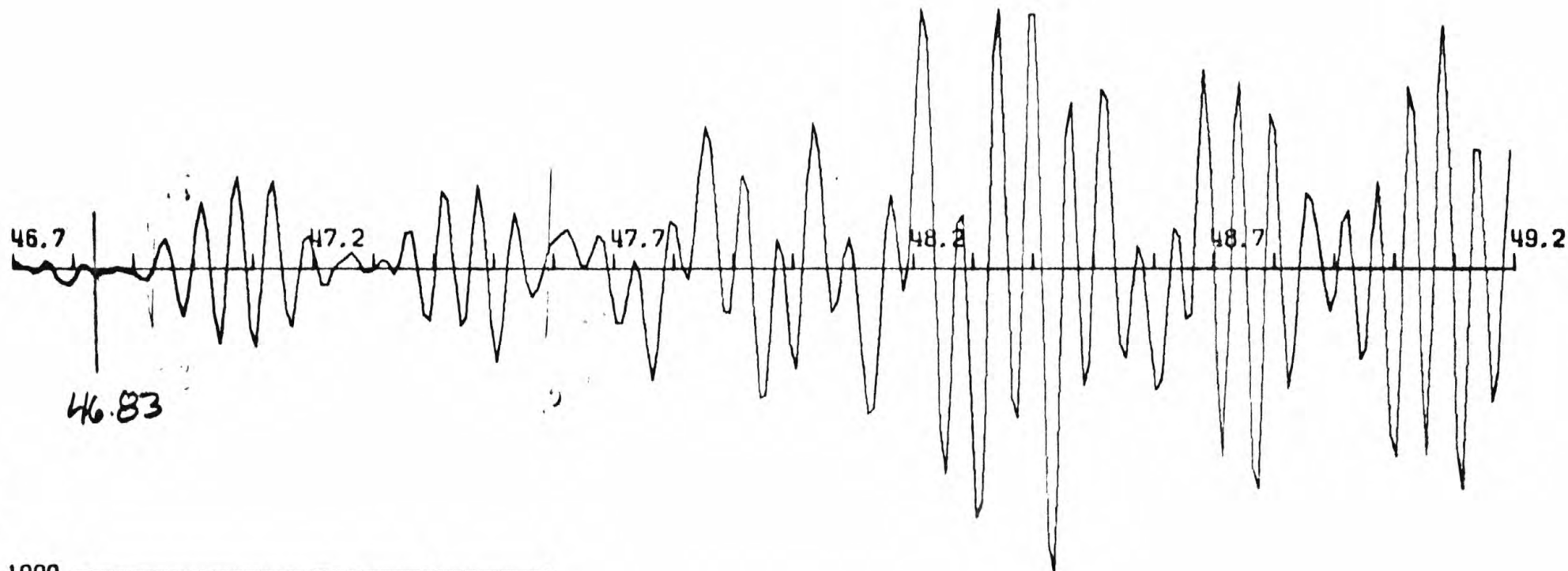
SAUDI REFRACTION PROFILE 15.20 BP

SHOT POINT 6

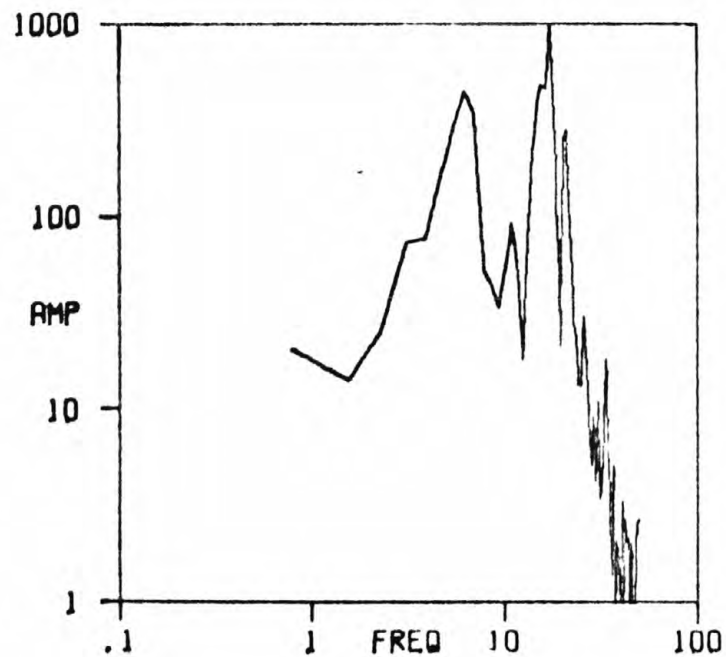
RECORDER LOCATION 552

DISTANCE FROM SHOT (KM) = 331.228

TSCALE (CM/SEC) = 10.0



852



SAUDI REFRACTION PROFILE

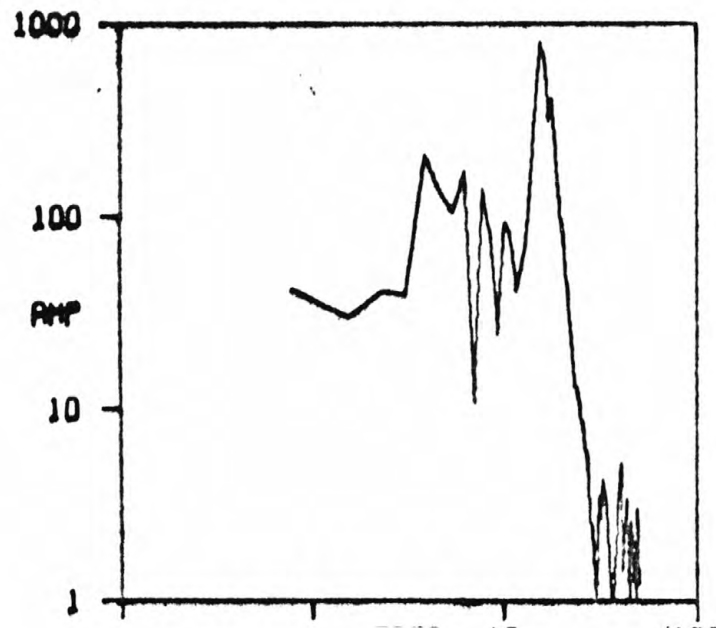
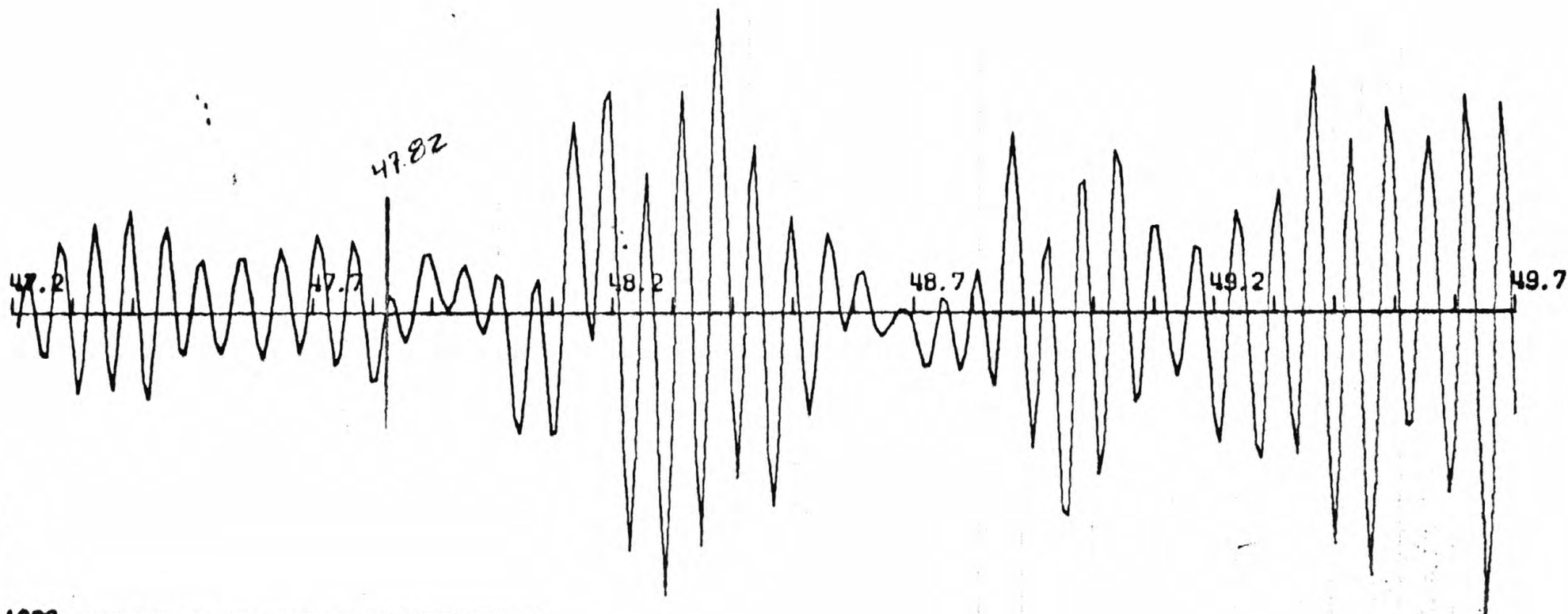
SHOT POINT 6

RECORDER LOCATION 550

DISTANCE FROM SHOT (KM) = 334.113

TSCALE (CM/SEC) = 10.0

853



SAUDI REFRACTION PROFILE 15.20 BP

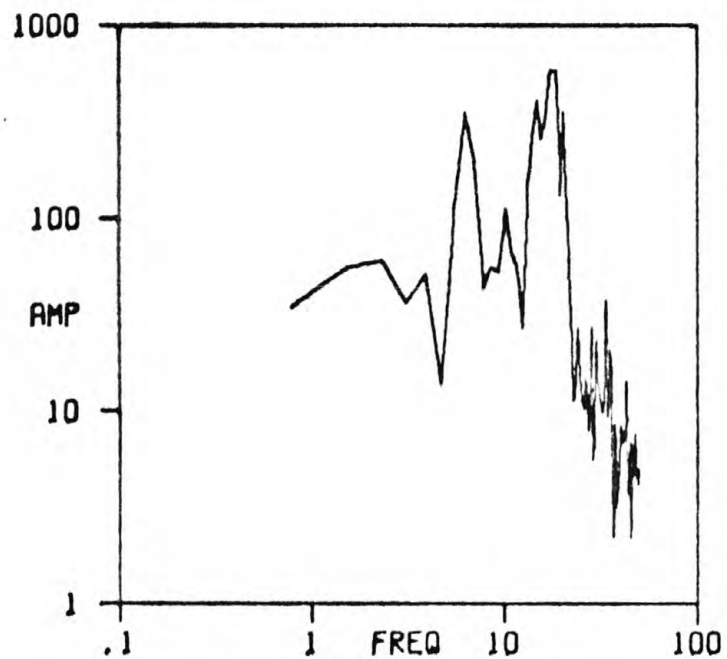
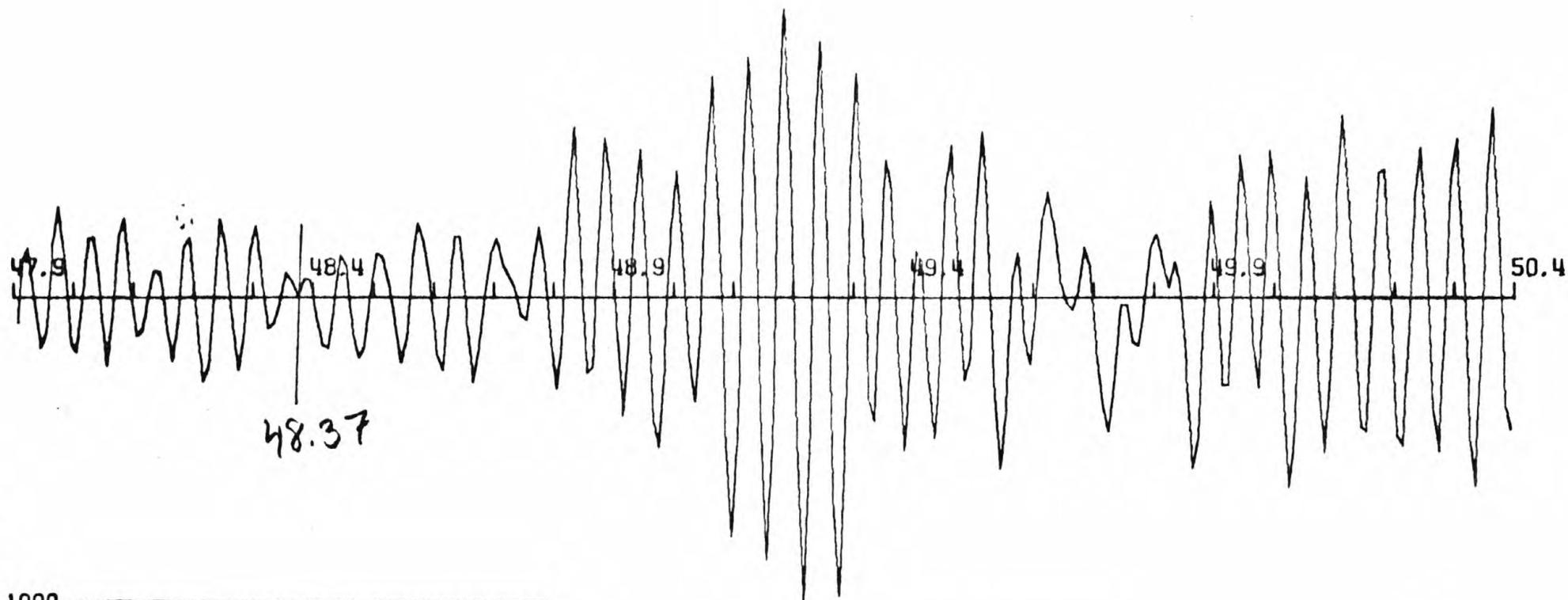
SHOT POINT 6

RECORDER LOCATION 548

DISTANCE FROM SHOT (KM) = 336.896

TSCALE (CM/SEC) = 10.0

854



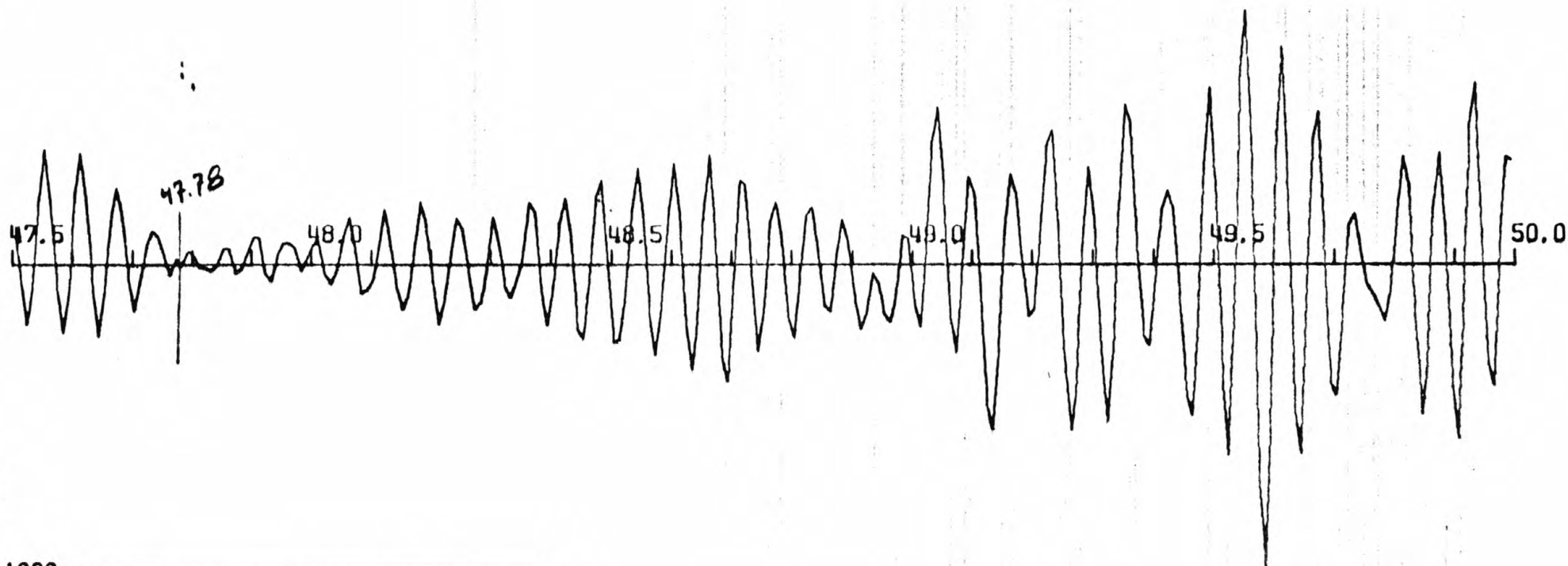
SAUDI REFRACTION PROFILE

SHOT POINT 6

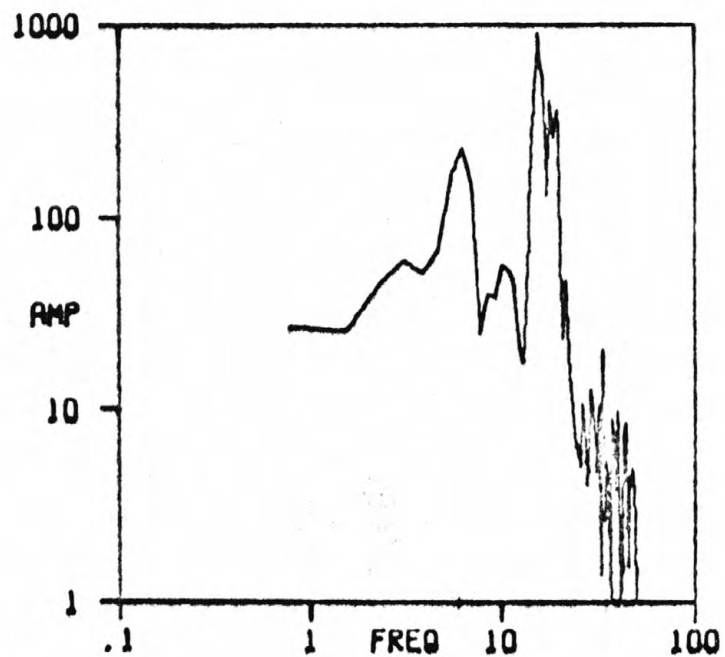
RECORDER LOCATION 544

DISTANCE FROM SHOT (KM) = 340.840

TSCALE (CM/SEC) = 10.0



855



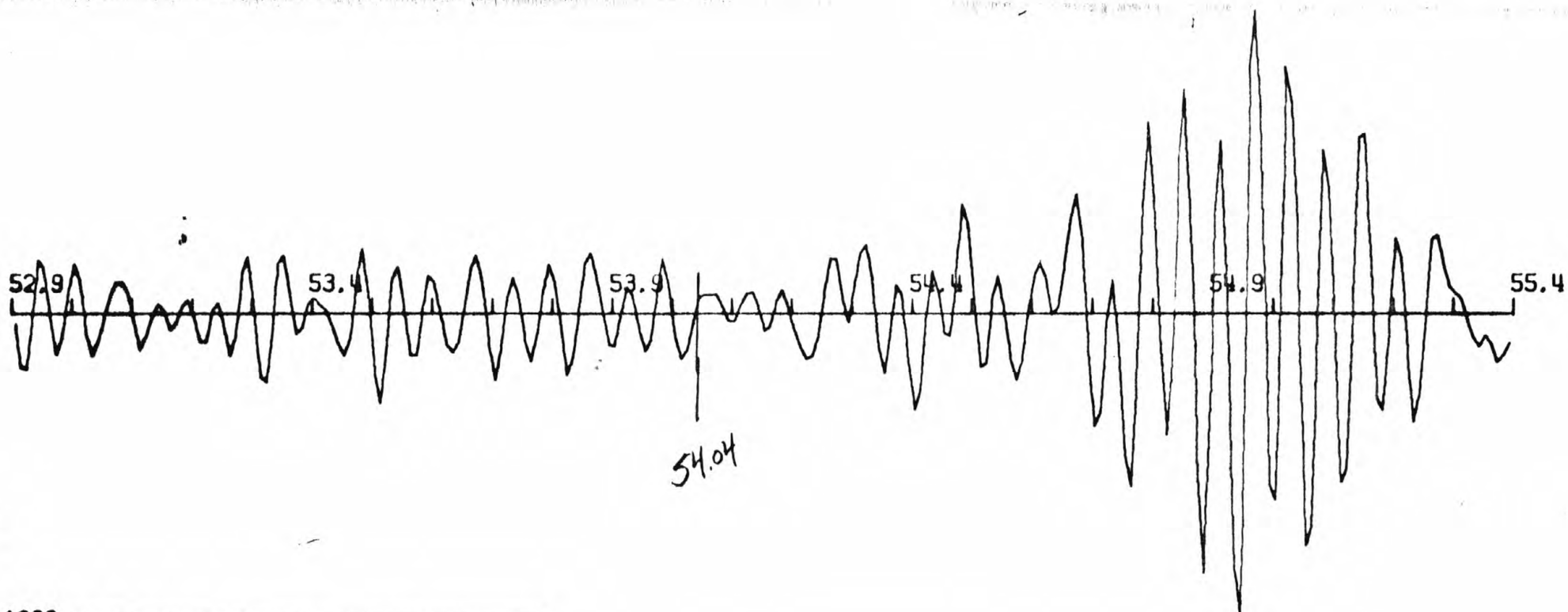
SAUDI REFRACTION PROFILE 15,20 BP

SHOT POINT 6

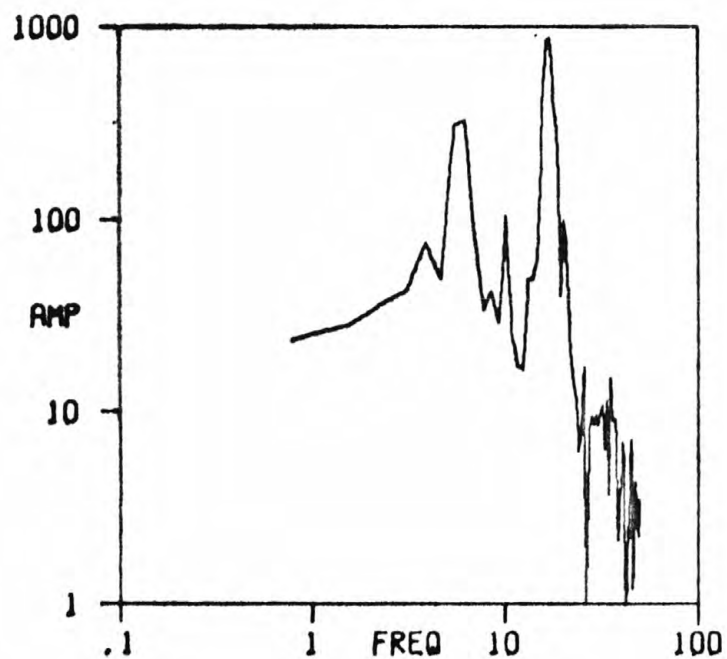
RECORDER LOCATION 541

DISTANCE FROM SHOT (KM) = 344.432

TSCALE (CM/SEC) = 10.0



256



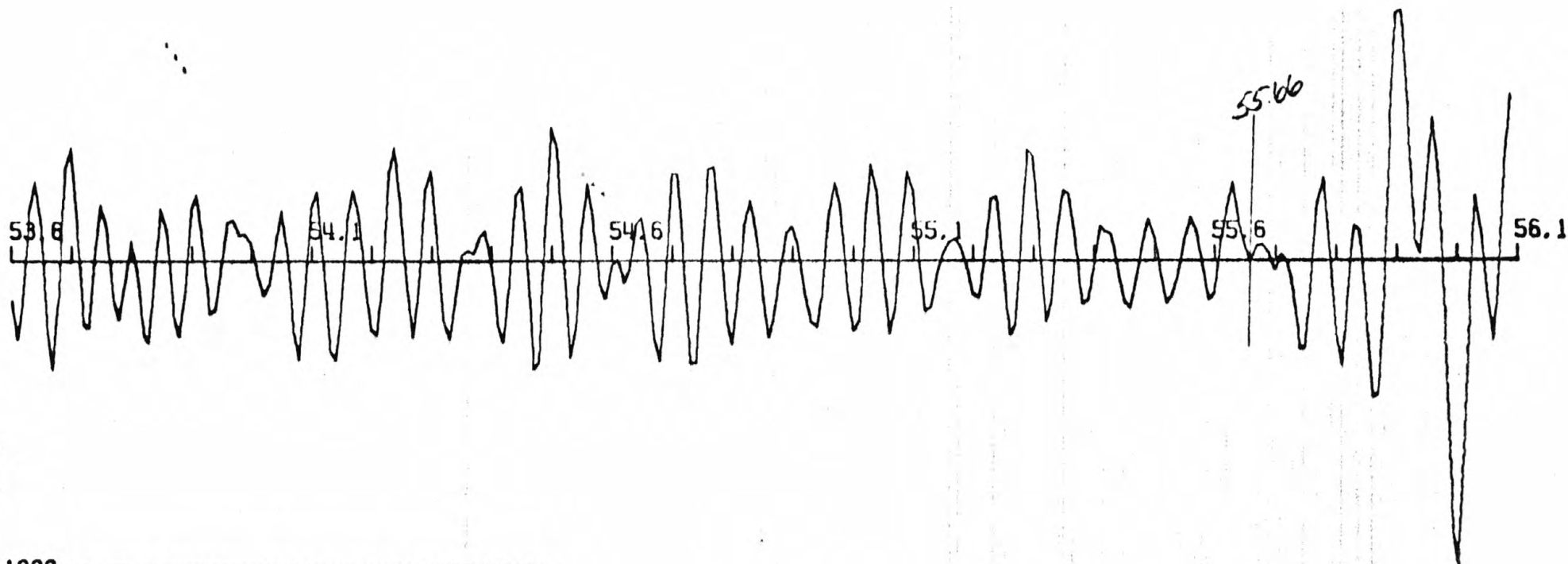
SAUDI REFRACTION PROFILE 15,20

SHOT POINT 6

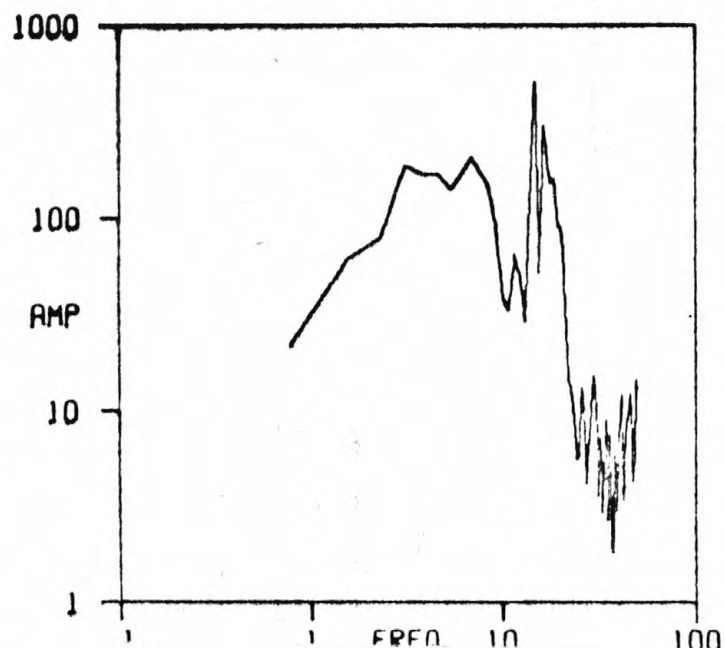
RECORDER LOCATION 519

DISTANCE FROM SHOT (KM) = 389.374

TSCALE (CM/SEC) = 10.0



LS8



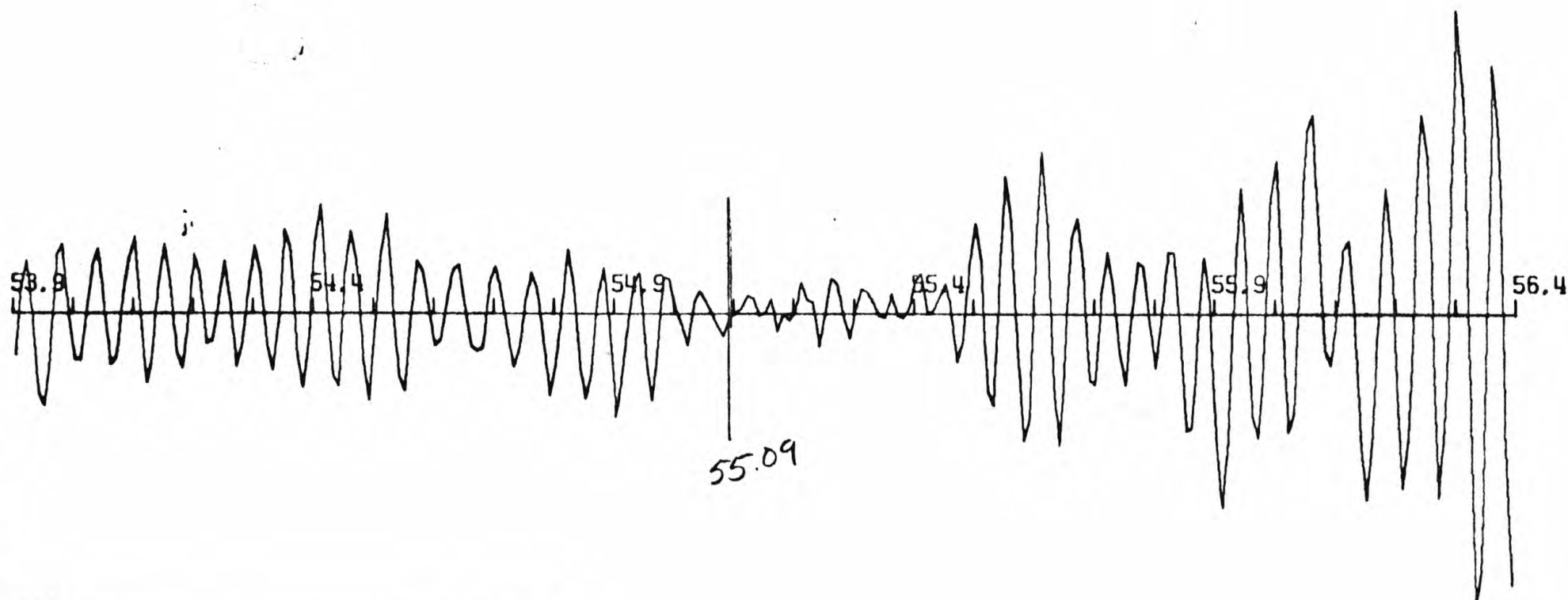
SAUDI REFRACTION PROFILE 15.20

SHOT POINT 6

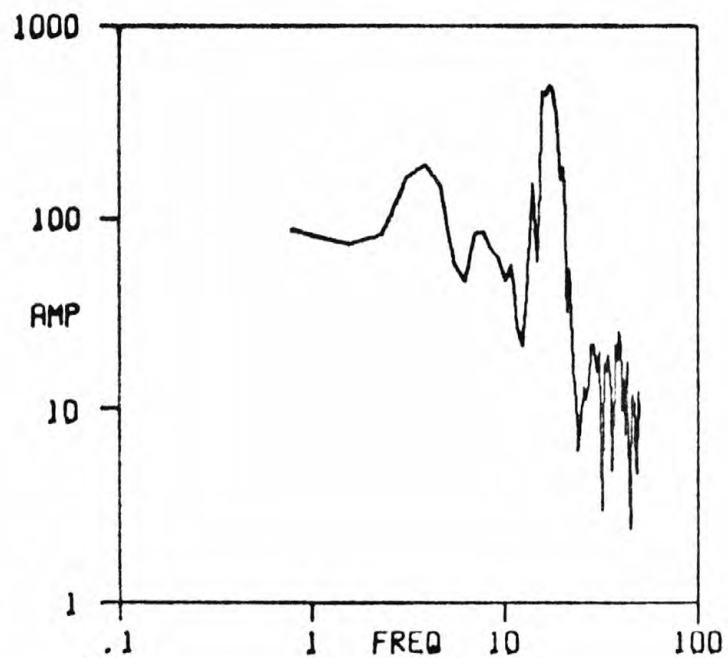
RECORDER LOCATION 516

DISTANCE FROM SHOT (KM) = 399.487

TSCALE (CM/SEC) = 10.0



858



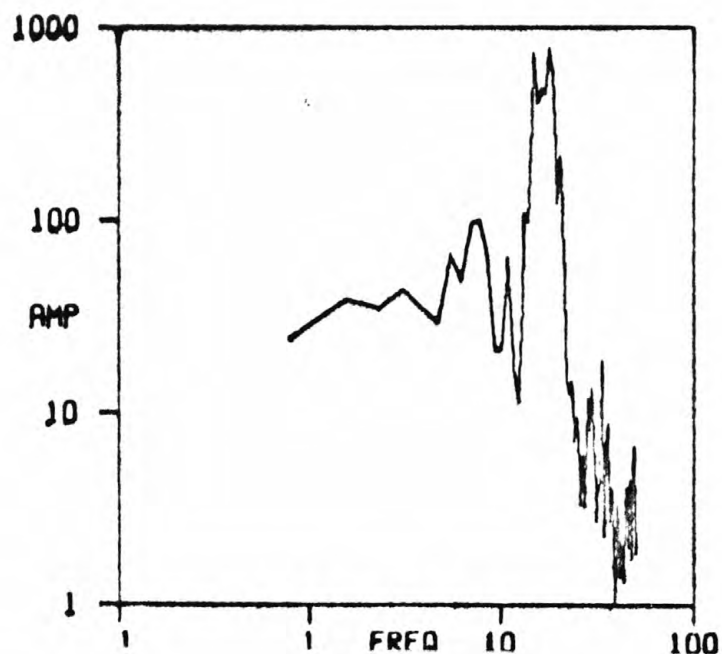
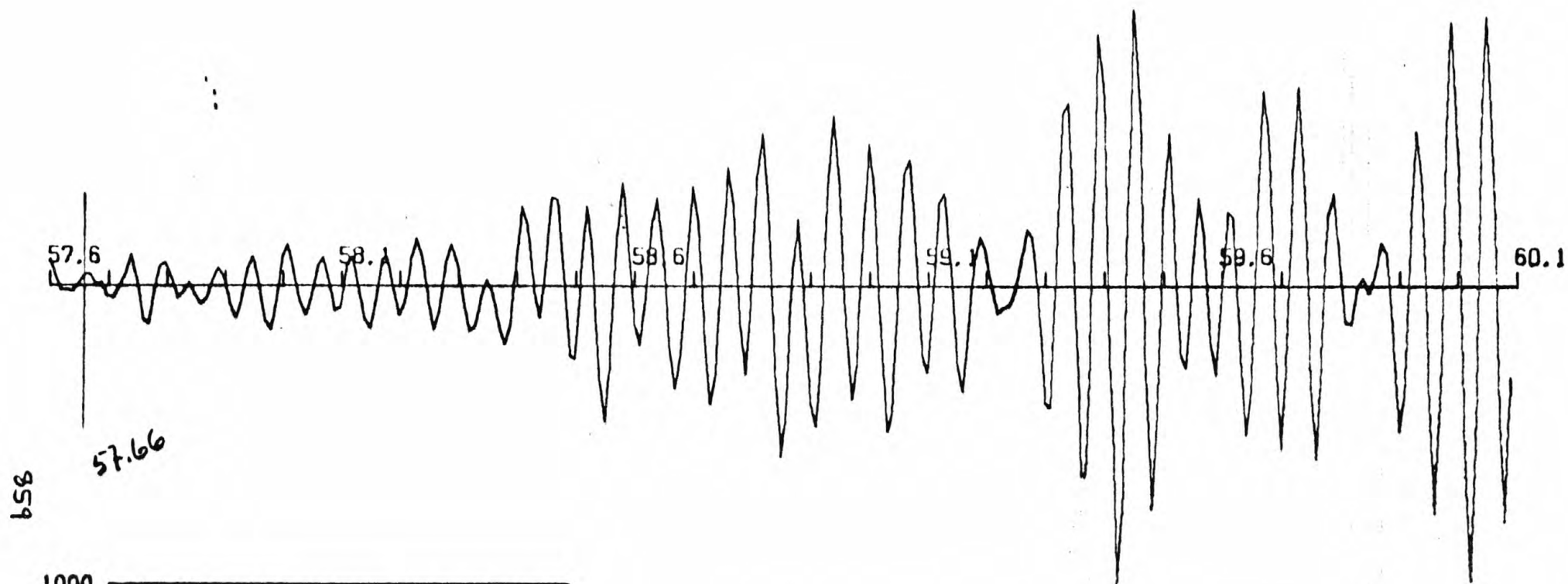
SAUDI REFRACTION PROFILE 15,20

SHOT POINT 6

RECORDER LOCATION 515

DISTANCE FROM SHOT (KM) = 400.887

TSCALE (CM/SEC) = 10.0



SAUDI REFRACTION PROFILE 15.20

SHOT POINT 6

RECORDER LOCATION 502

DISTANCE FROM SHOT (KM) = 423.360

TSCALE (CM/SEC) = 10.0

Blank, H. R., Healy, J. H., Roller, J. C., Lamson, R. L., Fisher, F.,
McClearn, R., and Allen, S., 1979, USGS/DGMR seismic refraction
profile, Kingdom of Saudi Arabia field operations, instrumentation
and initial results: U.S. Geological open file 79-1568.

Greenwood, W. R., Anderson, R. E., Fleck, R. J., and Roberts, R. J.,
in press, Precambrian geologic history and plate tectonic evolution
of the Arabian Shield: Saudi Arabian Directorat General of Mineral
Resources Bull.

Lamson, R. L., and Blank, H. R. 1978, USGS/DGMR geophysical investigations
in Saudi Arabia: seismic refraction profile, status report no. 2,
with a section on operational strategy by J. H. Healy: U.S. Geological
Survey open file rept 79-1601.

SAUDI ARABIA SEISMIC REFRACTION PROFILE
DATA SET, VOLUME II

by

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Open-File Report

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SAUDI ARABIA SEISMIC REFRACTION PROFILE
DATA SET, VOLUME 2

by

Ralph Lamson¹ and Laurel Leone¹

INTRODUCTION

The Arabian Shield has long attracted the interest of geologists and geophysicists because of its extraordinary geologic exposures and topographic expressions. In the last 20 years extensive geologic mapping, gravity, and magnetic investigations have been conducted which provide a general framework for the structure of the Arabian Shield. Prior to the present study, though, no seismic refraction studies have been made to complement and broaden basic understanding of the shield.

The U.S. Geological Survey took the opportunity to design a deep seismic refraction profile across the Arabian Shield to clarify some long-standing arguments regarding deep structure and origin of the shield and southeastern Red Sea. The profile extended 1000 km southwest of Riyadh, traversed a 3050 m (average height) erosional escarpment, crossed an oceanic-continental rift zone on the coastal plain and terminated at a small island near the outer reaches of the Farasan Islands in the Red Sea. The study was completed in February 1978 under an agreement between the U.S. Geological Survey and the Ministry of Petroleum and Mineral Resources of the Kingdom of Saudi Arabia.

The project was designed to probe the crust beneath these regions and to provide information on thickness, structure, and bulk composition of the crust to depths on the order of the Mohorovicic discontinuity (40 km or more). Seismic energy was provided by explosives detonated in drill holes at five land shot points. A sixth shot point was established on the sea floor by lowering explosives and detonating them from a ship.

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California 94025

Initial plans, field operations, instrumentation, and preliminary results are reported in U.S. Geological Survey/Saudi Arabian Publication 234, "Geophysical Investigations in Saudi Arabia", and Publication 259, "Seismic Refraction Profile, Kingdom of Saudi Arabia".

This report is a sequel to the previous publications. It is primarily concerned with the presentation of processed data shown in tables and illustrations. The report includes Volumes I and II.

Volume I gives a description of the plotting format used to obtain single-page plots of a seismic record from each recorder location. The description is followed by single-page plots of first arrivals for stations along the entire refraction profile.

Volume II shows the current Master Shot List and Team-Shot Data printouts. It includes a description of the programs used to compile pertinent data on shot points, recorder locations, and seismic records.

Description of Data Printouts

The following pages represent the system which has evolved for storing, cataloging and updating the information generated by a seismic refraction experiment such as the Saudi Arabian profile. The data reduction process begins with field data in the form of analog cassette tapes, which are then digitized, the information stored on diskettes, and plotted into record sections and single-page plots (see volume 1). The body of data which aids in the interpretation of these plots and other experiment products is organized into two groups, one containing location data, the other containing data on shots, recording instruments and the digitized records.

The "Seismic Recorder Locations" list (p. 1-11, this volume) represents the final format of the location data, and the "Master Shot List" (p. 12) and "Team-Shot Data Sheets" (p. 13-108) together represent the other data group. The two data bases are stored in the computer files M.LOC and K.DAT, respectively. Associated with each of these data files are specialized computer programs for updating data and interfacing with other files and programs.

The location printout indicates recorder site or shot point location number, latitude, longitude, elevation and geology. Location numbers are assigned in the field and generally correspond to the sequence of site occupation. Latitude and longitude are entered directly or as measured distances from map reference points, which are then converted by the program into latitudes and longitudes. This

information is typically entered as soon as sites are surveyed, and is corrected in the field for any changes in the actual deployment of instruments. The M.LOC file has a storage capacity for 1500 locations and can be adapted to include additional parameters. Data for one or more selected locations can be printed individually or the entire location file can be printed in page format, as in this volume.

The K.DAT file, on which the Master Shot List and Team-Shot Data Sheets are based has a storage capacity for 30 shots, or 3000 seismic records (up to 100 recorders are depolyed for each shot set). The Master Shot List contains data on shot locations and times and on shot holes. Shots are numbered chronologically. The calendar date, shot point location number and shot time are entered in the field after each shot set is fired. A file interfacing programs allows latitude, longitude, elevation and geology ("ROCK") to be read from M.LOC so any given shot list printout contains the most current and complete location data. Information about the nature of the drill holes and the depth and amount of loaded explosives appears in the columns labeled "DEPTH", "WATER", and "NOTES".

The 1978 Saudi Arabian profile consisted of 19 shots, or 1900 seismic records. Since each of five teams deploys 20 of the 100 instruments there are five "Team-Shot" Data Sheets for each shot, and each Data Sheet contains 20 records, one for each recorder location. Location and recording instrument numbers for each deployment are entered in the "LOC" and "UNIT" columns from each team's field data sheets. As on the Master Shot List, latitude, longitude and elevation

are read automatically from the current location file. An interface with the M.LOC file is also the basis for calculating distance and azimuth from the shot point, and these data are entered automatically in the "DIST" and "AZIM" columns. The timing error for each instrument is calculated by team after each shot set and entered in the "CHRON" column. When the cassette field tapes from each instrument are dubbed by team-shot, tape footage is recorded, the tape graded according to instrument performance and recording quality, and these in turn are entered in the appropriate columns of the K.DAT data file. The tape grade does not reflect the presence or quality of an arrival; merely the quality of the record:

- 0 - Good
- 1 - Tape did not run
- 2 - Tape ran but no signal
- 3 - Skipped record time
- 4 - Fast forward; no signal
- 5 - Rewound and erased
- 6 - Weak signal; cannot read TCT; low record level
- 7 - Continuous calibration or periodic offsets
- 8 - Noise, sinusoidal
- 9 - Noise, spike
- 10 - Noise, WWVB cross-feed
- 11 - Noise, periodic ticks
- 12 - Noise, random
- 13 - Bad clock
- 14 - Off frequency, tape speed
- 15 - Calibration
- 16 - Incomplete record; recorder stopped
- 17 - Bad time code
- 18 - Tape speed way off; belt slipped

- 19 - Turned on too early
- 20 - In for repair; not deployed
- 21 - Geophone disconnected or shorted (?)
- 22 - Wrong unit number
- 23 - Wrong gain settings
- 24 - Late start
- 25 - Bad geophone test (usually no signal)
- 26 - One or more channels missing
- 27 - Bad WWVB
- 28 - Unit damaged/vandalized
- 29 - Tape damaged/vandalized

During later refraction profiles a program was written which interfaces the K.DAT file with the digitizing process, automatically reading the calibration data generated during digitizing and writing it to the appropriate K.DAT file columns. To illustrate this capacity, Shot 1, Team 1 has been redigitized using the interface and includes calibration data. Each instrument records on three data channels with variable amplitudes:

<u>Channel</u>	<u>Attenuation</u>	<u>Amplitude of 10 Hz calibration (microvolts)</u>
1	medium	100
2	low	1000
3	high	10

All three channels are routinely digitized to select the channel with highest amplitude without significant clipping for storage on diskette. The K.DAT calibration columns indicate which channel was stored ("CH"), the amplitude of that channel's 10-Hz calibration signal ("VAL") and the amplitude in digital counts of the calibration signal ("AMP").

After the digitized records have been plotted, first arrivals are picked, timed, and the quality of the arrival graded:

- 0 - Good arrival
- 1 - Fair arrival
- 2 - Poor arrival
- 3 - Questionable arrival
- 4 - No arrival
- 5 - Bad plot
- 6 - No record
- 7 - Did not digitize
- 8 - Time code or tape speed problem
- 9 - Instrument problem

This data is entered in the "FIRST ARRIVAL" and "REC GRD" columns.

"NOTES" may be entered regarding any phase of the data reduction process and indicate alternate location names/numbers, elaboration on tape grades, or other information about instrument or data peculiarities or problems.

The location and team-shot data bases are easily updated and form a convenient source of information which is central to data reduction and analysis. By interfacing them with the digitizing program and with each other, they eliminate the multiple entry of data. Consequently data entry error is significantly reduced and location or unit number errors are discovered and corrected earlier in the data reduction process. The application of these data bases is continually being expanded as the data sets become more complete and as new analysis programs are developed.

U.S. GEOLOGICAL SURVEY SEISMIC REFRACTION PROFILE

SAUDI ARABIA 1978

SEISMIC RECORDER LOCATIONS

LOCATION NUMBER	LATITUDE (DEG, MIN, SEC)	LONGITUDE (DEG, MIN, SEC)	ELEV	GEOLOGY
1	24 16 12.2	-45 35 57.5	692	
2	23 17 28.0	-44 40 55.4	887	
3	21 56 44.3	-43 34 15.6	946	
4	20 5 12.7	-42 39 4.3	1144	
5	17 46 36.0	-42 20 47.5	179	
6	16 34 24.0	-42 3 20.6	1	
97	25 1 10.5	-45 44 49.0	652	LS
98	25 0 41.9	-45 45 45.2	655	LS
99	25 0 1.2	-45 46 33.7	659	QU
100	24 59 16.3	-45 47 13.1	660	LS
101	24 58 33.3	-45 47 49.6	667	LS
102	24 57 37.1	-45 48 42.9	664	QU
103	24 56 42.9	-45 49 24.8	668	QU
104	24 56 4.3	-45 50 5.2	673	QU
105	24 55 2.0	-45 51 15.9	678	QU
106	24 54 19.3	-45 52 3.1	681	QU
107	24 53 43.4	-45 52 38.1	686	QU
108	24 53 0.5	-45 53 18.5	682	QU
109	24 52 4.8	-45 53 42.1	681	QU
110	24 51 4.7	-45 54 8.4	679	QU
111	24 49 59.9	-45 54 29.2	683	QU
112	24 49 1.6	-45 54 26.9	681	QU
113	24 47 58.1	-45 54 13.3	677	QU
114	24 46 59.9	-45 54 15.9	671	QU
115	24 46 0.5	-45 54 25.2	670	QU
116	24 44 43.0	-45 54 2.9	665	QU
117	24 43 59.5	-45 53 29.1	663	QU
118	24 43 5.6	-45 53 46.0	670	LS
119	24 42 16.2	-45 54 8.0	657	QU
120	24 41 14.3	-45 54 40.8	652	QU
121	24 40 19.8	-45 55 12.6	648	QU
122	24 39 24.4	-45 54 45.9	639	LS
123	24 38 23.4	-45 54 25.5	678	LS
124	24 37 22.4	-45 55 4.4	701	LS
125	24 36 14.0	-45 54 44.0	686	LS
126	24 35 40.8	-45 55 0.0	677	QU
198	24 34 1.6	-45 55 27.5	692	QU
199	24 32 44.0	-45 55 10.2	749	
200	24 30 47.1	-45 56 40.6		
201	24 30 24.1	-45 57 22.8	728	QU
202	24 29 13.8	-45 57 54.5		
203	24 28 45.3	-45 57 54.0		
204	24 27 3.6	-45 57 3.7	732	QES
205	24 25 24.7	-45 56 58.7	757	QES
206	24 25 3.9	-45 56 39.6	741	QES
207	24 23 55.4	-45 55 21.3	706	QES
208	24 23 31.3	-45 55 9.2	689	QES
209	24 22 47.5	-45 54 0.4	684	QES
210	24 22 14.9	-45 52 53.6	682	SS
211	24 21 54.2	-45 52 2.3	689	SS

U.S. GEOLOGICAL SURVEY SEISMIC REFRACTION PROFILE

SAUDI ARABIA 1978

SEISMIC RECORDER LOCATIONS

LOCATION NUMBER	LATITUDE (DEG, MIN, SEC)	LONGITUDE (DEG, MIN, SEC)	ELEV	GEOLOGY
212	24 21 31.9	-45 51 13.0		
213	24 21 1.9	-45 50 1.2		
214	24 20 38.9	-45 49 7.7		
215	24 20 19.1	-45 47 54.2	687	SS
216	24 20 0.1	-45 46 55.9		
217	24 19 34.0	-45 45 23.7	695	SS
218	24 19 7.2	-45 43 54.6		
219	24 18 55.2	-45 43 9.3	717	SS
220	24 18 36.0	-45 42 30.9	722	SS
221	24 18 1.8	-45 41 13.1	731	SS
222	24 17 28.0	-45 40 6.2	747	SS
223	24 17 9.7	-45 39 29.6	721	SS
224	24 16 39.6	-45 38 33.2	714	SS
225	24 16 5.9	-45 37 33.5	707	SH
226	24 15 43.4	-45 37 2.2	699	SH
227	24 15 4.7	-45 36 11.5	703	QU
228	24 14 27.3	-45 35 26.1		
229	24 13 16.8	-45 33 36.2		
230	24 12 37.4	-45 32 35.4		
231	24 11 54.8	-45 31 33.3		
232	24 11 24.2	-45 30 31.4		
233	24 10 54.0	-45 29 23.0		
234	24 10 25.8	-45 28 18.1		
235	24 9 58.6	-45 27 16.4		
236	24 9 28.5	-45 26 11.4		
237	24 8 56.0	-45 25 8.5		
238	24 8 17.1	-45 24 15.4		
239	24 7 35.3	-45 23 17.1		
240	24 6 53.6	-45 22 17.7		
241	24 6 15.5	-45 21 20.7		
242	24 5 33.5	-45 20 24.6		
243	24 4 54.3	-45 19 26.9		
244	24 4 20.9	-45 18 26.3	802	QU
245	24 3 52.3	-45 17 6.8	825	QU
246	24 2 14.4	-45 13 57.0	840	G
247	24 0 54.1	-45 12 45.4	848	G
248	24 0 1.1	-45 11 19.6	869	G
249	23 59 32.9	-45 10 55.8	871	GR
250	23 58 53.3	-45 9 52.3	873	GR
251	23 58 26.5	-45 9 11.6	882	GR
252	23 57 32.0	-45 7 48.8	893	GR
253	23 56 59.4	-45 6 37.9	910	GR
254	23 56 3.7	-45 5 54.5	931	GR
255	23 55 27.1	-45 5 2.0	926	GR
256	23 54 45.9	-45 3 39.0	947	G
257	23 54 5.8	-45 2 57.2	949	GR
258	23 53 59.5	-45 2 10.0	950	VOL
259	23 53 1.7	-45 1 8.2	940	SC
260	23 51 43.6	-45 0 21.0	920	SC
261	23 50 43.7	-44 59 36.3	920	SC

U.S. GEOLOGICAL SURVEY SEISMIC REFRACTION PROFILE

SAUDI ARABIA 1978

SEISMIC RECORDER LOCATIONS

LOCATION NUMBER	LATITUDE (DEG,MIN,SEC)	LONGITUDE (DEG,MIN,SEC)	ELEV	GEOLOGY
262	23 49 46.9	-44 58 46.0	932	SC
263	23 48 55.0	-44 58 19.3	926	SC
264	23 47 57.4	-44 58 0.8	901	SC
265	23 46 54.1	-44 57 32.8	894	SC
266	23 45 47.7	-44 57 10.2	889	SC
267	23 44 46.3	-44 56 46.7	888	SC
268	23 43 52.3	-44 56 35.2	884	SC
269	23 42 55.9	-44 56 10.4	884	SC
270	23 42 8.3	-44 55 51.0	884	SC
271	23 41 4.4	-44 55 13.5	888	SC
272	23 40 15.8	-44 54 17.5	891	SC
273	23 39 15.3	-44 53 49.0	893	SC
274	23 38 4.3	-44 52 22.5	908	SC
275	23 37 47.5	-44 50 47.8	917	SC
276	23 37 13.3	-44 49 21.8	929	SC
277	23 36 24.0	-44 48 18.8	946	SC
278	23 36 14.4	-44 47 52.5	947	SC
279	23 35 19.2	-44 47 31.3	931	SC
280	23 34 20.8	-44 47 46.5	928	SC
281	23 34 20.2	-44 46 40.1	942	SC
282	23 34 5.3	-44 45 50.7	945	SC
283	23 33 48.2	-44 45 21.8	949	SC
284	23 33 22.0	-44 44 53.2	957	SC
285	23 33 12.9	-44 44 29.1	957	SC
286	23 32 6.6	-44 43 45.8	968	SC
287	23 31 14.7	-44 43 19.3	951	SC
288	23 30 32.8	-44 42 49.9	942	SC
289	23 29 34.8	-44 43 4.3	939	GR
290	23 28 29.7	-44 42 52.1	934	GR
291	23 27 25.9	-44 42 48.8	932	GR
292	23 26 21.4	-44 42 32.3	943	GR
293	23 25 28.7	-44 42 11.9	946	GR
294	23 24 16.7	-44 42 0.1	949	GR
295	23 23 26.9	-44 41 47.2	953	GR
296	23 22 30.6	-44 41 18.2	931	GR
297	23 21 9.6	-44 41 3.7	908	GR
298	23 20 18.9	-44 40 56.7	893	GR
299	23 19 15.5	-44 40 36.7	880	VOL
300	23 18 26.9	-44 40 20.7	886	VOL
302	23 17 7.6	-44 39 51.4	889	GR
303	23 16 22.8	-44 40 3.3	879	GR
304	23 15 54.6	-44 39 18.2	878	GR
305	23 14 45.9	-44 38 49.7	878	GR
306	23 14 10.1	-44 38 43.8	866	VOL
307	23 13 56.7	-44 37 33.1	885	GR
308	23 12 29.5	-44 35 57.1	846	VOL
309	23 11 50.8	-44 35 2.0	829	VOL
310	23 11 1.7	-44 34 19.3	810	VOL
311	23 10 11.9	-44 33 30.0	804	VOL
312	23 9 21.3	-44 32 41.8	796	VOL

U.S. GEOLOGICAL SURVEY SEISMIC REFRACTION PROFILE

SAUDI ARABIA 1978

SEISMIC RECORDER LOCATIONS

LOCATION NUMBER	LATITUDE (DEG, MIN, SEC)	LONGITUDE (DEG, MIN, SEC)	ELEV	GEOLOGY
313	23 8 32.5	-44 31 53.9	788	VOL
314	23 7 44.6	-44 31 7.5	782	VOL
315	23 6 55.9	-44 30 18.8	775	VOL
316	23 6 6.2	-44 29 29.1	768	VOL
317	23 5 23.5	-44 28 34.4	764	VOL
318	23 4 49.0	-44 27 57.1	779	VOL
319	23 3 57.6	-44 27 12.2	761	VOL
320	23 3 8.0	-44 26 26.1	765	CGL
321	23 2 18.9	-44 25 41.6	768	CGL
322	23 1 31.0	-44 24 55.4	771	CGL
323	23 0 43.7	-44 24 15.3	784	CGL
324	22 59 35.2	-44 23 40.7	801	CGL
325	22 58 28.5	-44 23 38.0	811	QU
326	22 57 41.4	-44 23 18.7	824	QU
327	22 56 43.5	-44 22 53.0	834	QU
328	22 56 4.8	-44 21 55.5	843	GR
329	22 55 23.5	-44 20 54.3	854	GR
330	22 54 4.5	-44 19 7.5	902	GR
331	22 53 39.8	-44 18 9.5	915	GR
332	22 53 20.1	-44 17 32.0	924	GR
333	22 52 52.7	-44 16 57.2	930	GR
334	22 52 10.8	-44 16 31.1	943	GR
335	22 51 37.3	-44 15 29.3	962	GR
336	22 50 39.7	-44 14 13.7	979	GR
337	22 50 4.9	-44 13 18.3	972	GR
338	22 49 20.4	-44 12 7.3	966	GR
339	22 48 51.1	-44 11 29.4	957	GR
340	22 48 9.6	-44 10 29.4	949	GR
341	22 47 25.0	-44 9 24.9	935	CGL
342	22 46 37.7	-44 8 16.6	941	CGL
343	22 46 5.4	-44 7 35.8	946	CGL
344	22 45 18.7	-44 6 15.4	990	GR
345	22 45 5.7	-44 5 36.6	996	GR
346	22 44 27.1	-44 4 31.1	976	QES
347	22 43 3.6	-44 3 38.2	944	GR
348	22 41 59.7	-44 3 9.8	953	GR
349	22 41 0.2	-44 2 54.1	951	GR
350	22 39 31.2	-44 2 46.8	952	CGL
351	22 39 22.1	-44 2 8.4	958	CGL
352	22 38 43.8	-44 1 50.4	955	VOL
353	22 38 1.0	-44 1 25.3	951	VOL
354	22 36 40.2	-44 0 37.3	967	VOL
355	22 36 15.5	-43 59 17.2	979	CGL
356	22 35 14.0	-43 58 17.1	957	QU
357	22 34 30.1	-43 57 23.9	957	CGL
358	22 33 18.2	-43 56 1.9	962	CGL
359	22 32 40.6	-43 55 23.2	961	VOL
360	22 31 57.4	-43 54 34.0	962	VOL
361	22 31 21.8	-43 53 49.7	972	CGL
362	22 30 32.8	-43 52 47.1	974	GR

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LOCATION NUMBER	LATITUDE (DEG, MIN, SEC)	LONGITUDE (DEG, MIN, SEC)	ELEV	GEOLOGY
363	22 29 38.7	-43 52 6.5	982	QU
364	22 28 59.3	-43 51 16.9	993	VOL
365	22 28 25.6	-43 50 43.3	1001	G
374	22 27 45.7	-43 49 41.0	1007	GR
375	22 27 26.5	-43 48 49.9	1020	GR
376	22 26 11.4	-43 48 4.0	1031	GR
377	22 25 7.4	-43 47 23.7	1074	GR
378	22 24 12.5	-43 47 9.3	1069	GR
379	22 23 10.8	-43 46 19.2	1063	GR
380	22 22 19.2	-43 45 49.5	1094	GR
381	22 21 21.6	-43 44 34.2	1053	GR
382	22 20 48.3	-43 43 39.5	1043	GR
383	22 20 26.6	-43 43 22.5	1038	GR
384	22 19 8.9	-43 42 42.3	1028	GR
385	22 18 56.3	-43 42 1.5	1021	GR
386	22 18 23.2	-43 41 32.0	1017	GR
387	22 17 48.6	-43 40 41.8	1008	GR
388	22 17 8.8	-43 39 45.7	998	GR
389	22 16 9.6	-43 39 31.5	995	GR
390	22 15 16.5	-43 39 0.7	993	GR
391	22 14 23.4	-43 38 54.5	999	GR
392	22 14 3.7	-43 38 48.0	996	GR
393	22 13 0.7	-43 38 41.0	983	GR
394	22 11 42.6	-43 38 30.9	979	GR
395	22 10 32.1	-43 38 23.8	983	GR
396	22 9 28.6	-43 38 12.6	980	GR
397	22 8 22.9	-43 37 57.8	974	GR
398	22 7 17.3	-43 37 45.4	974	GR
399	22 6 15.5	-43 37 41.0	973	GR
400	22 4 51.4	-43 37 29.0	970	GR
401	22 3 36.8	-43 37 19.3	967	GR
402	22 2 42.0	-43 37 11.7	962	GR
403	22 1 42.5	-43 36 55.7	957	GR
404	22 0 24.8	-43 36 43.0	956	QU
405	21 59 29.0	-43 36 28.4	957	QU
406	21 58 7.7	-43 35 54.5	964	QU
407	21 57 39.5	-43 35 47.3	967	QU
408	21 56 41.5	-43 35 6.9	956	QU
409	21 55 39.0	-43 34 49.4	955	QU
410	21 55 3.8	-43 34 41.6	957	QU
411	21 54 5.3	-43 34 18.6	948	QU
412	21 53 8.6	-43 33 39.4	950	VOL
413	21 51 56.6	-43 33 17.3	936	VOL
414	21 51 5.5	-43 32 51.7	938	VOL
415	21 50 3.9	-43 32 23.3	928	VOL
416	21 49 0.5	-43 31 56.3	925	VOL
417	21 47 40.5	-43 30 55.1	931	VOL
418	21 46 12.6	-43 30 35.2	922	VOL
419	21 44 58.6	-43 31 38.7	914	VOL
420	21 43 45.1	-43 31 41.7	911	VOL

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LOCATION NUMBER	LATITUDE (DEG,MIN,SEC)	LONGITUDE (DEG,MIN,SEC)	ELEV	GEOLOGY
421	21 42 29.5	-43 32 18.7	908	QU
422	21 41 26.9	-43 32 45.0	907	QU
423	21 40 43.1	-43 33 10.4	905	QU
424	21 39 46.8	-43 33 41.2	896	QU
425	21 38 38.4	-43 34 17.1	906	QU
426	21 37 43.4	-43 34 30.6	902	VOL
427	21 36 39.7	-43 34 42.5	904	VOL
428	21 35 52.5	-43 34 49.7	897	VOL
429	21 35 7.5	-43 34 20.9	889	VOL
430	21 34 13.8	-43 33 47.5	882	VOL
431	21 33 24.9	-43 33 23.1	876	VOL
432	21 32 14.4	-43 32 56.5	872	VOL
433	21 30 51.2	-43 32 19.6	866	VOL
434	21 29 52.1	-43 32 9.7	857	VOL
435	21 29 5.0	-43 32 56.4	856	VOL
436	21 27 48.2	-43 31 34.6	849	VOL
437	21 26 55.9	-43 31 22.9	845	VOL
438	21 25 16.5	-43 30 41.2	842	VOL
439	21 24 21.6	-43 30 39.3	836	VOL
440	21 23 11.5	-43 30 4.9	839	QU
441	21 21 42.0	-43 29 38.2	827	QU
442	21 21 20.5	-43 30 1.1	830	QU
443	21 19 59.2	-43 29 34.0	829	QU
444	21 18 58.5	-43 29 16.6	832	QU
445	21 17 41.9	-43 28 58.1	834	QU
446	21 16 39.8	-43 28 20.1	836	QU
447	21 15 22.9	-43 27 43.0	840	QU
448	21 13 52.6	-43 27 2.7	847	QU
449	21 12 40.2	-43 26 33.1	855	QU
450	21 11 50.9	-43 26 16.1	857	QU
451	21 11 1.5	-43 25 48.8	856	QU
452	21 10 2.9	-43 25 15.7	858	QU
453	21 9 6.8	-43 24 44.2	862	QU
454	21 8 17.7	-43 24 18.5	862	QU
455	21 6 48.8	-43 23 25.7	872	QU
456	21 5 38.8	-43 22 49.7	871	QU
457	21 4 30.4	-43 22 17.3	875	QU
458	21 1 59.6	-43 20 27.0	903	
459	21 1 1.4	-43 19 37.6	889	
460	21 0 19.6	-43 18 54.4	891	QU
461	20 59 36.0	-43 18 14.6	894	QU
462	20 58 54.1	-43 17 36.8	896	QU
463	20 57 57.9	-43 16 43.8	918	QU
464	20 57 9.0	-43 16 13.8	905	QU
465	20 56 14.7	-43 15 37.3	908	QU
466	20 55 29.4	-43 15 7.7	911	QU
467	20 54 43.9	-43 14 35.7	914	QU
468	20 53 59.7	-43 14 2.9	917	QU
469	20 52 59.6	-43 13 29.6	921	QU
470	20 51 51.5	-43 12 49.8	926	QU

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LOCATION NUMBER	LATITUDE (DEG, MIN, SEC)	LONGITUDE (DEG, MIN, SEC)	ELEV	GEOLOGY
471	20 50 52.9	-43 12 9.8	931	QU
472	20 49 50.2	-43 11 28.2	935	QU
473	20 48 42.3	-43 10 50.9	940	QU
474	20 47 36.8	-43 10 18.3	944	QU
475	20 46 22.6	-43 9 40.7	949	QU
476	20 45 18.7	-43 9 7.8	953	QU
477	20 44 24.2	-43 8 34.7	957	QU
478	20 43 12.5	-43 7 59.6	958	GR
479	20 42 21.2	-43 7 30.4	966	GR
480	20 41 25.8	-43 6 52.2	973	GR
481	20 40 32.6	-43 6 17.6	981	GR
482	20 39 40.9	-43 5 43.9	992	GR
483	20 38 36.7	-43 5 16.7	994	GR
484	20 37 21.2	-43 4 49.5	993	GR
485	20 36 24.3	-43 4 29.1	994	GR
486	20 35 11.3	-43 3 50.0	998	GR
487	20 33 34.0	-43 3 1.1	1015	QU
488	20 32 38.7	-43 2 29.7	1012	QU
489	20 31 19.5	-43 1 44.8	1022	GR
490	20 30 7.3	-43 1 2.5	1010	QU
491	20 29 5.3	-43 0 43.7	1011	GR
492	20 27 59.5	-43 0 24.7	1025	SC
493	20 27 1.5	-42 59 55.8	1035	GR
494	20 25 55.3	-42 59 20.8	1057	GR
495	20 24 47.2	-42 59 1.2	1043	SC
496	20 23 40.3	-42 58 34.4	1047	GR
497	20 22 50.7	-42 58 10.1	1053	SC
498	20 21 38.7	-42 57 25.7	1059	SC
499	20 20 37.8	-42 56 51.5	1069	SC
500	20 19 35.5	-42 56 14.2	1077	SC
501	20 18 26.5	-42 55 42.4	1089	SC
502	20 17 1.8	-42 54 50.9	1097	SC
503	20 15 42.2	-42 54 8.4	1114	SC
504	20 14 18.6	-42 53 24.6	1095	GR
505	20 13 15.4	-42 52 6.5	1096	GR
506	20 12 40.8	-42 50 58.8	1090	GR
507	20 12 5.0	-42 49 50.5	1098	GR
508	20 11 32.2	-42 48 49.1	1096	GR
509	20 10 49.9	-42 47 31.1	1115	GR
510	20 10 11.3	-42 46 19.7	1119	GR
511	20 9 42.7	-42 45 13.0	1113	GR
512	20 9 4.9	-42 44 16.7	1120	GR
513	20 8 20.9	-42 43 21.4	1131	GR
514	20 7 46.9	-42 42 17.5	1134	GR
515	20 7 7.6	-42 41 28.6	1137	GR
516	20 6 25.5	-42 41 4.1	1138	GR
517	20 4 27.5	-42 40 4.5	1150	GR
518	20 2 53.8	-42 39 32.5	1152	GR
519	20 1 3.4	-42 40 1.2	1181	GR
520	19 59 56.3	-42 40 3.5	1170	GR

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LOCATION NUMBER	LATITUDE (DEG, MIN, SEC)	LONGITUDE (DEG, MIN, SEC)	ELEV	GEOLOGY
521	19 59 1.4	-42 39 54.7	1170	GR
522	19 57 58.5	-42 39 54.4	1186	GR
523	19 56 38.7	-42 39 59.6	1196	GR
524	19 55 40.9	-42 39 55.4	1216	GR
525	19 54 38.3	-42 39 46.9	1226	GR
526	19 54 0.7	-42 39 47.1	1230	GR
527	19 52 48.7	-42 39 53.9	1238	GR
528	19 51 35.7	-42 39 56.4	1241	GR
529	19 50 11.9	-42 39 54.6	1253	GR
530	19 49 10.0	-42 39 45.2	1252	GR
531	19 48 13.6	-42 39 33.7	1260	GR
532	19 47 3.3	-42 39 21.6	1263	GR
533	19 45 58.3	-42 39 12.1	1249	GR
534	19 44 6.8	-42 38 49.0	1268	SC
535	19 43 5.7	-42 38 37.7	1265	SC
536	19 41 46.7	-42 38 34.8	1287	SC
537	19 40 35.7	-42 38 45.0	1306	SC
538	19 39 38.0	-42 38 27.0	1332	SC
539	19 38 56.2	-42 38 23.2	1331	SC
540	19 38 10.3	-42 38 43.6	1355	SC
541	19 37 9.8	-42 38 54.1	1366	SC
542	19 36 41.5	-42 38 38.5	1365	SC
543	19 36 10.9	-42 38 35.4	1384	SC
544	19 35 16.2	-42 38 27.1	1393	SC
545	19 34 59.0	-42 38 58.9	1411	SC
546	19 33 59.8	-42 39 24.8	1412	SC
547	19 33 30.8	-42 39 32.1	1434	SC
548	19 32 47.1	-42 40 12.5	1423	SC
549	19 32 12.1	-42 40 46.2	1434	GR
550	19 31 8.0	-42 40 50.6	1443	GR
551	19 30 26.8	-42 40 25.1	1470	VOL
552	19 29 46.0	-42 39 40.8	1483	SC
553	19 28 28.3	-42 39 31.5	1514	SC
554	19 27 21.2	-42 39 48.7	1530	GR
555	19 26 38.0	-42 39 56.8		
556	19 25 36.7	-42 40 25.4		
557	19 24 25.2	-42 40 29.8		
558	19 23 44.4	-42 41 6.8	1574	GR
559	19 22 20.4	-42 41 18.3	1583	GR
560	19 21 4.4	-42 41 35.5	1557	SC
561	19 20 1.7	-42 42 47.9	1537	GR
562	19 18 5.7	-42 42 35.5	1568	GR
563	19 16 48.1	-42 42 49.5	1559	GR
564	19 15 36.4	-42 43 4.6	1569	GR
565	19 14 20.8	-42 43 42.9	1546	GR
566	19 13 25.6	-42 44 37.3	1567	VOL
567	19 11 56.7	-42 44 21.4	1594	VOL
568	19 10 41.9	-42 43 43.8	1625	VOL
569	19 9 47.8	-42 43 25.4	1641	VOL
570	19 9 1.3	-42 42 46.7	1689	VOL

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SEISMIC RECORDER LOCATIONS

LOCATION NUMBER	LATITUDE (DEG, MIN, SEC)	LONGITUDE (DEG, MIN, SEC)	ELEV	GEOLOGY
571	19 8 18.5	-42 43 31.5	1644	GR
572	19 7 29.4	-42 43 18.9	1636	GR
573	19 5 45.5	-42 43 22.9	1665	GR
574	19 4 32.9	-42 43 32.8	1663	GR
575	19 3 3.8	-42 43 57.1	1657	GR
576	19 1 40.1	-42 44 14.4	1703	VOL
577	19 0 51.7	-42 44 31.6	1698	VOL
578	19 0 32.1	-42 43 19.9	1705	VOL
579	18 59 22.8	-42 43 35.1	1720	VOL
580	18 58 45.7	-42 43 17.7	1729	VOL
581	18 57 11.5	-42 43 22.5	1745	GR
582	18 55 9.7	-42 43 5.5	1795	GR
583	18 53 36.4	-42 43 47.0	1837	GR
584	18 52 29.1	-42 45 0.2	1804	GR
585	18 51 10.6	-42 45 20.7	1799	GR
586	18 50 29.1	-42 45 53.6	1814	GR
587	18 49 40.0	-42 46 9.9	1811	GR
588	18 48 30.1	-42 46 52.8	1812	GR
589	18 47 6.9	-42 47 29.3	1811	GR
590	18 45 34.1	-42 47 48.9	1807	GR
591	18 44 14.7	-42 47 58.3	1795	VOL
592	18 43 38.7	-42 47 39.3	1821	GR
593	18 42 18.4	-42 47 13.0	1830	GR
594	18 42 6.2	-42 45 49.8	1862	VOL
595	18 40 46.0	-42 45 52.1	1849	VOL
596	18 39 32.3	-42 45 6.9	1819	VOL
597	18 38 17.4	-42 44 3.5	1835	G
598	18 37 24.4	-42 42 55.6	1856	GR
599	18 37 22.2	-42 41 34.0	1831	GR
600	18 36 25.1	-42 40 41.8	1853	GR
601	18 35 28.7	-42 40 6.1	1855	GR
602	18 34 28.5	-42 39 43.2	1886	GR
603	18 33 33.0	-42 39 20.8	1903	G
604	18 33 34.5	-42 38 6.4	1910	G
605	18 33 33.1	-42 36 43.4	1945	G
606	18 33 10.1	-42 35 59.8	1951	G
607	18 32 26.0	-42 35 8.3	1983	G
608	18 31 24.1	-42 35 14.7	2039	VOL
609	18 29 54.8	-42 35 37.2	2000	VOL
610	18 28 56.6	-42 35 49.5	1997	VOL
611	18 28 24.7	-42 35 46.9	2000	VOL
612	18 27 54.9	-42 35 26.1	2026	VOL
613	18 27 10.4	-42 35 14.8	2029	VOL
614	18 25 59.0	-42 34 58.6	2003	VOL
615	18 24 50.1	-42 35 23.4	1985	VOL
616	18 24 0.6	-42 34 6.4	2050	VOL
617	18 22 53.0	-42 33 57.3	2063	VOL
618	18 21 20.4	-42 33 38.0	2087	VOL
619	18 20 24.5	-42 33 27.9	2076	VOL
620	18 19 19.0	-42 33 15.9	2122	VOL

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LOCATION NUMBER	LATITUDE (DEG, MIN, SEC)	LONGITUDE (DEG, MIN, SEC)	ELEV	GEOLOGY
621	18 18 12.6	-42 33 9.0	2109	VOL
622	18 16 50.3	-42 33 9.1	2135	GR
623	18 14 56.7	-42 32 31.9	2067	VOL
624	18 12 30.3	-42 32 2.0	2280	VOL
626	17 49 8.9	-42 21 56.4	229	SC
627	17 47 56.0	-42 20 52.0	207	SC
697	17 45 39.2	-42 20 29.4	152	SC
698	17 44 28.8	-42 19 54.0	131	SC
699	17 43 59.4	-42 18 39.9	116	VOL
700	17 43 27.0	-42 17 42.1	93	VOL
701	17 42 50.3	-42 16 32.5	72	SH
800	17 41 33.8	-42 17 37.9	136	VOL
801	17 40 21.1	-42 17 41.7	68	SH
802	17 39 4.4	-42 17 46.7	59	SH
803	17 37 32.3	-42 17 53.3	45	QU
804	17 35 52.1	-42 17 55.8	32	QU
805	17 33 49.7	-42 18 1.6	22	QU
806	17 33 33.4	-42 24 5.4	61	SH
807	17 32 2.6	-42 24 9.9	52	SH
808	17 30 32.1	-42 24 12.1	43	QU
809	17 28 6.3	-42 24 19.2	40	QU
810	17 26 40.3	-42 24 21.1	36	QU
811	17 24 16.5	-42 24 32.2	34	QU
812	17 22 21.6	-42 24 26.7	31	QU
813	17 20 5.2	-42 24 29.4	31	QU
888	17 18 2.1	-42 23 13.3	4	QU
889	17 15 54.3	-42 22 25.8	3	QU
890	17 14 1.1	-42 22 2.1	2	QU
891	17 12 14.2	-42 20 18.7	3	QU
892	17 10 25.4	-42 21 8.7	2	QU
893	17 9 11.1	-42 21 36.6	2	QU
894	17 8 22.2	-42 21 53.6	2	QU
895	17 6 37.3	-42 21 41.7	2	QU
896	17 5 55.1	-42 21 42.6	1	QU
897	17 4 9.2	-42 21 54.4	1	QU
898	17 2 49.1	-42 22 24.2	1	QU
899	17 1 54.0	-42 22 22.0	1	QU
900	17 1 4.0	-42 21 52.0	1	QU
905	16 53 45.0	-42 17 29.0	1	QU
906	16 52 43.0	-42 17 45.0	1	QU
907	16 51 29.0	-42 17 32.0	1	QU
908	16 44 38.0	-42 13 14.0	1	QU
909	16 44 14.0	-42 12 19.0	1	QU
910	16 43 25.0	-42 11 50.0	1	QU
911	16 43 1.0	-42 10 50.0	5	QU
912	16 42 5.0	-42 10 29.0	10	QU
913	16 41 18.0	-42 10 19.0	10	QU
914	16 39 23.0	-42 10 8.0	14	QU
915	16 38 6.0	-42 9 42.0	15	QU
916	16 37 1.0	-42 9 36.0	17	QU

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LOCATION NUMBER	LATITUDE (DEG.,MIN.,SEC)	LONGITUDE (DEG.,MIN.,SEC)	ELEV	GEOLOGY
917	16 36 1.0	-42 9 18.0	5	QU
925	16 34 24.0	-42 3 30.0	1	QU
926	16 33 0.0	-42 2 47.0	1	QU
927	16 32 19.0	-42 1 59.0	1	QU
928	16 28 43.0	-41 57 4.0	1	QU
929	16 25 41.0	-41 53 30.0	1	QU
930	16 25 24.0	-41 52 34.0	1	QU
950	24 13 49.5	-45 34 29.6		QU
953	22 54 31.3	-44 19 50.7	888	GR
954	21 3 33.7	-43 21 31.7	877	GR
955	18 11 15.3	-42 31 46.3	2276	GR
956	18 9 19.6	-42 29 54.0	2013	GR
957	18 8 1.9	-42 29 47.0	1968	GR
958	18 5 37.1	-42 28 45.7	1621	GR
959	18 5 20.9	-42 28 1.5	1567	GR
960	18 4 6.5	-42 26 55.8	1740	GR
961	18 2 18.6	-42 24 6.2	1109	GR
962	18 0 28.1	-42 22 33.4	659	GR
963	17 58 22.5	-42 22 8.1	658	GR
964	17 56 5.7	-42 21 26.6	536	GR
965	17 55 19.9	-42 23 1.2	622	GR
966	17 53 54.5	-42 23 7.5	441	GR
967	17 52 5.4	-42 23 13.1	412	GR
968	17 50 28.5	-42 21 40.5	480	GR
970	21 15 19.3	-43 27 59.2	840	QU
971	21 8 52.5	-43 24 52.6	863	QU
972	21 6 35.2	-43 23 31.6	872	QU

MASTER SHOT LIST

SAUDI ARABIA 1978

SHOT	DATE	SHOT POINT	LATITUDE	LONGITUDE	ELEV	SHOT TIME	DEPTH TOP BOT	WATER	ROCK	NOTES
1	FEB 3	1	24 16 12.2	-45 35 57.5	692	34 1 0 0.012				2 60-M HOLES
2	FEB 3	2	23 17 28.0	-44 40 55.4	887	34 1 45 0.650				4 60-M HOLES
3	FEB 6	1	24 16 12.2	-45 35 57.5	692	37 1 0 0.012				6 60-M HOLES
4	FEB 6	2	23 17 28.0	-44 40 55.4	887	37 1 15 2.456				3 60-M HOLES
5	FEB 9	1	24 16 12.2	-45 35 57.5	692	40 1 0 0.012				7 60-M HOLES
6	FEB 9	2	23 17 28.0	-44 40 55.4	887	40 1 45 0.876				5 REDRILL HOLES
7	FEB 9	6	16 34 24.0	-42 3 20.6	1	40 4 0 0.042				SEA SHOT; 200 FT
8	FEB 13	2	23 17 28.0	-44 40 55.4	887	44 1 0 0.011				5 REDRILL HOLES
9	FEB 13	3	21 56 44.3	-43 34 15.6	946	44 1 15 0.015				3 60-M HOLES
10	FEB 13	4	20 5 12.7	-42 39 4.3	1144	44 1 30 0.015				7 60-M HOLES
11	FEB 16	1	24 16 12.2	-45 35 57.5	692	47 1 0 0.012				6 REDRILL HOLES
12	FEB 16	3	21 56 44.3	-43 34 15.6	946	47 1 15 0.010				6 60-M HOLES & REDRILLS
13	FEB 16	4	20 5 12.7	-42 39 4.3	1144	47 1 30 0.015				3 60-M HOLES
14	FEB 16	6	16 34 24.0	-42 3 20.6	1	47 4 0 0.057				SEA SHOT; 200 FT
15	FEB 20	5	17 46 36.0	-42 20 47.5	179	51 1 0 0.013				2 60-M HOLES
16	FEB 20	6	16 34 24.0	-42 3 20.6	1	51 4 0 0.037				SEA SHOT; 200 FT
17	FEB 22	5	17 46 36.0	-42 20 47.5	179	53 1 15 0.014				5 60-M HOLES
18	FEB 22	4	20 5 12.7	-42 39 4.3	1144	53 4 30 0.013				11 SHALLOW-PATTERN HOLES
19	FEB 22	6	16 34 24.0	-42 3 20.6	1	53 5 0 0.030				SEA SHOT; 200 FT

SAUDI ARABIA 1978
 SHOT NUMBER 1 TEAM 1
 SHOT POINT 1
 SHOT TIME: 34: 1: 0: 0.012

DATA FOR ONE TEAM-SHOT

	LOC	LATITUDE	LONGITUDE	ELEV	DIST(KM)	AZIM	UNIT	NOTES	FOOTAGE	CHRON	TAPE GRADE	REC GRD	FIRST ARRIVAL	CALIBRATION			
														AMP	VAL	CH	100 /10
1	97	25 1 10.5	-45 44 49.0	652	84.664	10.2	87		5	47	0			42	10	2	4.1
2	98	25 0 41.9	-45 45 45.2	655	84.090	11.4	53		61	-12	0			38	10	2	3.4
3	99	25 0 1.2	-45 46 33.7	659	83.141	12.5	26		112	-5	0			34	10	2	3.7
4	100	24 59 16.3	-45 47 13.1	660	82.034	13.4	108		157	-18	0			34	10	2	4.1
5	101	24 58 33.3	-45 47 49.6	667	80.991	14.4	125		--	-23	1						
6	102	24 57 37.1	-45 48 42.9	664	79.426	15.7	128		199	11	0/ 6/17			43	10	2	3.8
7	103	24 56 42.9	-45 49 24.8	668	78.157	16.9	65		240	-393	0			31	10	2	4.6
8	104	24 56 4.3	-45 50 5.2	673	77.364	18.0	115		276	10	0			40	10	2	6.6
9	105	24 55 2.0	-45 51 15.9	678	76.196	19.8	28		310	7	0			4	10	2	0.7
10	106	24 54 19.3	-45 52 3.1	681	75.428	21.1	143		343	24	0						
11	107	24 53 43.4	-45 52 38.1	686	74.766	22.1	33		377	-15	0			39	10	2	2.5
12	108	24 53 0.5	-45 53 18.5	682	73.987	23.3	79		407	8	0			45	10	2	5.7
13	109	24 52 4.8	-45 53 42.1	681	72.688	24.3	24		435	4	0			29	10	2	4.7
14	110	24 51 4.7	-45 54 8.4	679	71.323	25.5	10		5	56	0			29	10	2	3.1
15	111	24 49 59.9	-45 54 29.2	683	69.792	26.6	90		61	-11	0			29	10	2	3.8
16	112	24 49 1.6	-45 54 26.9	681	68.165	27.3	34		110	-14	0						
17	113	24 47 58.1	-45 54 13.3	677	66.254	27.7	98		156	81	0			30	10	2	3.4
18	114	24 46 59.9	-45 54 15.9	671	64.712	28.5	66		199	-3	0			6	10	2	0.9
19	115	24 46 0.5	-45 54 25.2	670	63.242	29.5			--	--	20						
20	116	24 44 43.0	-45 54 2.9	665	60.862	30.1	3		239	-18	0			19	10	2	3.2

DATA FOR ONE TEAM-SHOT

SAUDI ARABIA 1978
SHOT NUMBER 1 TEAM 2
SHOT POINT 1
SHOT TIME: 34: 1: 0: 0.012

	LOC	LATITUDE	LONGITUDE	ELEV	DIST(KM)	AZIM	UNIT	NOTES	FOOTAGE	CHRON	TAPE GRADE	CALIBRATION			
												REC GRD	FIRST ARRIVAL	AMP VAL	100 CH /10
1	117	24 43 59.5	-45 53 29.1	663	59.227	30.0	105		5	--	0				
2	118	24 43 5.6	-45 53 46.0	670	58.043	31.2	132		61	--	0				
3	119	24 42 16.2	-45 54 8.0	657	57.081	32.5	92		109	--	0				
4	120	24 41 14.3	-45 54 40.8	652	56.002	34.4	74		149	--	0				
5	121	24 40 19.8	-45 55 12.6	648	55.151	36.1	64		189	37	0				
6	122	24 39 24.4	-45 54 45.9	639	53.336	36.6	101		226	--	0				
7	123	24 38 23.4	-45 54 25.5	678	51.489	37.3	52		260	16	0				
8	124	24 37 22.4	-45 55 4.4	701	50.702	39.6	32		--	--	1				
9	125	24 36 14.0	-45 54 44.0	686	48.725	40.6	137		295	18	0				
10	126	24 35 40.8	-45 55 0.0	677	48.254	41.8	45		--	--	1				
11	198	24 34 1.6	-45 55 27.5	692	46.573	45.1	55		--	--	1				
12	199	24 32 44.0	-45 55 10.2	749	44.564	46.8	38		326	--	0				
13	200	24 30 54.9	-45 56 38.3	731	44.272	52.2	44		355	--	0				
14	201	24 30 24.1	-45 57 22.8	728	44.708	54.1	82		--	--	20				
15	202	24 29 28.1	-45 57 43.0	771	44.195	56.4	62		--	--	1				
16	203	24 28 51.8	-45 57 23.0	773	43.113	57.2	23		384	--	0				
17	204	24 27 3.6	-45 57 3.7	732	40.930	60.7	120		--	--	1				
18	205	24 25 24.7	-45 56 58.7	757	39.407	64.5	25		413	21	0				
19	206	24 25 3.9	-45 56 39.6	741	38.646	65.0	142		--	--	1				
20	207	24 23 55.4	-45 55 21.3	706	35.770	66.5	78		440	--	0				

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DATA FOR ONE TEAM-SHOT

SAUDI ARABIA 1978
SHOT NUMBER 1 TEAM 3
SHOT POINT 1
SHOT TIME: 34: 1: 0: 0.012

	LOC	LATITUDE	LONGITUDE	ELEV	DIST(KM)	AZIM	UNIT	NOTES	FOOTAGE	CHRON	TAPE GRADE	REC GRD	FIRST ARRIVAL	CALIBRATION AMP VAL CH	100 /10
1	208	24 23 31.3	-45 55 9.2	689	35.169	67.4	49		5	-4	0				
2	209	24 22 47.5	-45 54 0.4	684	32.863	68.3	58		62	-7	0				
3	210	24 22 14.9	-45 52 53.6	682	30.747	68.7	122		111	8	0				
4	211	24 21 54.2	-45 52 2.3	689	29.167	68.9	68		155	24	0				
5	212	24 21 33.6	-45 51 13.0	689	27.643	69.0	83		196	-5	0				
6	213	24 21 2.6	-45 50 1.2	687	25.411	69.4	77		235	22	0				
7	214	24 20 39.5	-45 49 8.3	690	23.766	69.8	89		270	15	0				
8	215	24 20 19.1	-45 47 54.2	687	21.590	69.4	96		304	2	0				
9	216	24 20 0.8	-45 46 55.9	686	19.854	69.3	133		336	-10	0				
10	217	24 19 34.0	-45 45 23.7	695	17.132	68.8	107		367	-7	0				
11	218	24 19 8.9	-45 43 54.6	706	14.511	68.0	110		396	3	0				
12	219	24 18 55.2	-45 43 9.3	717	13.169	67.6	112		--	3	1				
13	220	24 18 36.0	-45 42 30.9	722	11.945	68.3	119		423	-3	0				
14	221	24 18 1.8	-45 41 13.1	731	9.519	69.3	121		450	15	0				
15	222	24 17 28.0	-45 40 6.2	747	7.394	71.6	103		5	-9	0				
16	223	24 17 9.7	-45 39 29.6	721	6.239	73.5	19		61	49	0				
17	224	24 16 39.6	-45 38 33.2	714	4.474	79.1	30		111	-9	0				
18	225	24 16 5.9	-45 37 33.5	707	2.716	94.1	31		156	2	0				
19	226	24 15 43.4	-45 37 2.2	699	2.031	115.9	39		197	-8	0				
20	227	24 15 4.7	-45 36 11.5	703	2.114	169.2	75		234	-7	0	0	0.49		

SAUDI ARABIA 1978
 SHOT NUMBER 1 TEAM 4
 SHOT POINT 1
 SHOT TIME: 34: 1: 0: 0.012

DATA FOR ONE TEAM-SHOT

	LOC	LATITUDE	LONGITUDE	ELEV	DIST(KM)	AZIM	UNIT	NOTES	FOOTAGE	CHRON	TAPE GRADE	REC GRD	FIRST ARRIVAL	CALIBRATION AMP VAL CH	100 /10
1	228	24 14 27.6	-45 35 26.1	716	3.338	195.4	60	NO TC@SHOT	5	-12	0	0	0.64		
2	229	24 13 15.5	-45 33 37.3	692	6.723	216.0	35		61	-19	0	0	1.24		
3	230	24 12 35.2	-45 32 37.6	695	8.741	220.2	106		110	-11	0	0	1.52		
4	231	24 11 54.5	-45 31 35.9	696	10.833	222.9	48		--	10	1				
5	232	24 11 22.1	-45 30 32.5	699	12.797	225.8	139		154	-12	0	0	2.16		
6	233	24 10 51.8	-45 29 24.0	703	14.847	228.4	100		195	-10	0				
7	234	24 10 23.1	-45 28 19.1	707	16.813	230.3	138	UNIT 130	233	-22	0/22	0	2.87		
8	235	24 9 56.5	-45 27 17.5	712	18.678	231.8	85		270	30	0	0	3.20		
9	236	24 9 27.6	-45 26 11.8	717	20.689	233.0	113		304	-1001	0	0	4.03		
10	237	24 8 54.0	-45 25 10.3	719	22.699	233.6	18		337	-16	0	1	3.90		
11	238	24 8 15.9	-45 24 16.5	726	24.619	233.5	70		368	-13	0/18	0	4.20		
12	239	24 7 34.4	-45 23 17.6	734	26.715	233.4	129		397	8	0	0	4.52		
13	240	24 6 52.8	-45 22 18.4	744	28.820	233.3	136		426	50	0	0	4.90		
14	241	24 6 13.3	-45 21 22.3	759	30.817	233.3	51		454	7	0	0	5.15		
15	242	24 5 33.1	-45 20 25.1	771	32.851	233.2	93		5	-17	0				
16	243	24 4 53.0	-45 19 28.0	780	34.879	233.2	22		--	-19	3/24				
17	244	24 4 20.9	-45 18 26.3	802	36.869	233.6	124		61	8	0	0	6.09		
18	245	24 3 52.3	-45 17 6.8	825	39.204	234.5	40		111	5	0	0	6.32		
19	246	24 2 14.4	-45 13 57.0	840	45.321	235.3	17	NO TC@SHOT	156	19	0	0	7.38		
20	247	24 0 54.1	-45 12 45.4	848	48.400	234.3	131		197	-28	0/18	0	7.90		

DATA FOR ONE TEAM-SHOT

SAUDI ARABIA 1978
SHOT NUMBER 1 TEAM 5
SHOT POINT 1
SHOT TIME: 34: 1: 0: 0.012

	LOC	LATITUDE	LONGITUDE	ELEV	DIST(KM)	AZIM	UNIT	NOTES	FOOTAGE	CHRON	TAPE GRADE	REC GRD	FIRST ARRIVAL	CALIBRATION AMP VAL CH	100 /10
1	248	24 0 1.1	-45 11 19.6	869	51.320	234.4	145		--	-11	0	0	8.32		
2	249	23 59 32.9	-45 10 55.8	871	52.374	234.1	99		--	1	0				
3	250	23 58 53.3	-45 9 52.3	873	54.542	234.1	94		--	28	3/24				
4	251	23 58 26.5	-45 9 11.6	882	55.959	234.1	88		--	-22	0	0	9.10		
5	252	23 57 32.0	-45 7 48.8	893	58.839	234.1	97		--	-32	0	0	9.64		
6	253	23 56 59.4	-45 6 37.9	910	61.051	234.5	146		--	28	0	0	10.10		
7	254	23 56 3.7	-45 5 54.5	931	63.050	233.9	104		--	-27	0				
8	255	23 55 27.1	-45 5 2.0	926	64.914	233.8	118		--	34	0	0	10.58		
9	256	23 54 45.9	-45 3 39.0	947	67.555	234.1	69		--	5	17				
10	257	23 54 5.8	-45 2 57.2	949	69.239	233.9	76		--	77	0	0	11.20		
11	258	23 53 59.5	-45 2 10.0	950	70.432	234.4	56		--	7	0	0	11.52		
12	259	23 53 1.7	-45 1 8.2	940	72.892	234.1	73		--	-23	17/21				
13	260	23 51 43.6	-45 0 21.0	920	75.393	233.2	72		--	4	0	0	12.32		
14	261	23 50 43.7	-44 59 36.3	920	77.518	232.7	71		--	-87	0	0	12.65		
15	262	23 49 46.9	-44 58 46.0	932	79.709	232.3	63	ERASED 95S	--	-33	0	0	13.07		
16	263	23 48 55.0	-44 58 19.3	926	81.329	231.7	12		--	-16	0	0	13.20		
17	264	23 47 57.4	-44 58 0.8	901	82.853	231.0	14		--	-28	0	0	13.55		
18	265	23 46 54.1	-44 57 32.8	894	84.710	230.3	15		--	-17	17/21				
19	266	23 45 47.7	-44 57 10.2	889	86.525	229.5	36		--	-25	0	0	14.20		
20	267	23 44 46.3	-44 56 46.7	888	88.271	228.9	43		--	0	3/24				

DATA FOR ONE TEAM-SHOT

SAUDI ARABIA 1978
SHOT NUMBER 2 TEAM 1
SHOT POINT 2
SHOT TIME: 34: 1:45: 0.650

	LOC	LATITUDE	LONGITUDE	ELEV	DIST(KM)	AZIM	UNIT	NOTES	FOOTAGE	CHRON	TAPE GRADE	REC GRD	FIRST ARRIVAL	CALIBRATION AMP VAL CH	100 /10
1	97	25 1 10.5	-45 44 49.0	652	220.469	29.5	87		5	47	0				
2	98	25 0 41.9	-45 45 45.2	655	220.485	30.0	53		105	-12	0				
3	99	25 0 1.2	-45 46 33.7	659	220.084	30.4	26		163	-5	0				
4	100	24 59 16.3	-45 47 13.1	660	219.454	30.9	108		214	-18	0				
5	101	24 58 33.3	-45 47 49.6	667	218.848	31.3	125		--	-23	1				
6	102	24 57 37.1	-45 48 42.9	664	218.152	31.9	128		265	11	0				
7	103	24 56 42.9	-45 49 24.8	668	217.361	32.4	65		309	-393	0				
8	104	24 56 4.3	-45 50 5.2	673	216.968	32.8	115		350	10	0				
9	105	24 55 2.0	-45 51 15.9	678	216.444	33.5	28		389	7	0				
10	106	24 54 19.3	-45 52 3.1	681	216.083	34.0	143		425	24	0				
11	107	24 53 43.4	-45 52 38.1	686	215.720	34.4	33		5	-15	0				
12	108	24 53 0.5	-45 53 18.5	682	215.275	34.8	79		75	8	0				
13	109	24 52 4.8	-45 53 42.1	681	214.248	35.2	24		136	4	0	2	35.06		
14	110	24 51 4.7	-45 54 8.4	679	213.165	35.7	10		--	56	3/16				
15	111	24 49 59.9	-45 54 29.2	683	211.891	36.1	90		189	-11	0				
16	112	24 49 1.6	-45 54 26.9	681	210.403	36.4	34		239	-14	0				
17	113	24 47 58.1	-45 54 13.3	677	208.599	36.6	98		284	81	0	2	34.20		
18	114	24 46 59.9	-45 54 15.9	671	207.207	37.0	66		326	-3	0				
19	115	24 46 0.5	-45 54 25.2	670	205.904	37.3			--	--	20				
20	116	24 44 43.0	-45 54 2.9	665	203.625	37.6	3		367	-18	0	1	33.07		

DATA FOR ONE TEAM-SHOT

SAUDI ARABIA 1978
SHOT NUMBER 2 TEAM 2
SHOT POINT 2
SHOT TIME: 34: 1:45: 0.650

	LOC	LATITUDE	LONGITUDE	ELEV	DIST(KM)	AZIM	UNIT	NOTES	FOOTAGE	CHRON	TAPE GRADE	REC GRD	FIRST ARRIVAL	CALIBRATION AMP VAL CH	100 /10
1	117	24 43 59.5	-45 53 29.1	663	201.982	37.6	105		5	--	0				
2	118	24 43 5.6	-45 53 46.0	670	200.959	38.0	132		77	--	0				
3	119	24 42 16.2	-45 54 8.0	657	200.145	38.4	92		140	--	0				
4	120	24 41 14.3	-45 54 40.8	652	199.230	39.0	74		194	--	0				
5	121	24 40 19.8	-45 55 12.6	648	198.494	39.5	64		244	37	0/17				
6	122	24 39 24.4	-45 54 45.9	639	196.700	39.6	101		290	--	0/17	2	31.99		
7	123	24 38 23.4	-45 54 25.5	678	194.884	39.9	52		334	16	0	2	31.98		
8	124	24 37 22.4	-45 55 4.4	701	194.152	40.5	32		--	--	1				
9	125	24 36 14.0	-45 54 44.0	686	192.178	40.7	137		374	18	0	2	31.20		
10	126	24 35 40.8	-45 55 0.0	677	191.698	41.0	45		--	--	1				
11	198	24 34 1.6	-45 55 27.5	692	189.917	41.8	55		--	--	1				
12	199	24 32 44.0	-45 55 10.2	749	187.812	42.2	38		413	--	0	2	30.50		
13	200	24 30 54.9	-45 56 38.3	731	187.031	43.5	44		450	--	0				
14	201	24 30 24.1	-45 57 22.8	728	187.210	43.9	82		--	--	20				
15	202	24 29 28.1	-45 57 43.0	771	186.368	44.4	62		--	--	1				
16	203	24 28 51.8	-45 57 23.0	773	185.175	44.6	23		5	--	0	2	30.57		
17	204	24 27 3.6	-45 57 3.7	732	182.427	45.2	120		--	--	1				
18	205	24 25 24.7	-45 56 58.7	757	180.190	45.8	25		77	21	0	2	29.80		
19	206	24 25 3.9	-45 56 39.6	741	179.356	45.9	142		--	--	1				
20	207	24 23 55.4	-45 55 21.3	706	176.301	45.9	78		140	--	0				

DATA FOR ONE TEAM-SHOT

SAUDI ARABIA 1978
SHOT NUMBER 2 TEAM 3
SHOT POINT 2
SHOT TIME: 34: 1:45: 0.650

	LOC	LATITUDE	LONGITUDE	ELEV	DIST(KM)	AZIM	UNIT	NOTES	FOOTAGE	CHRON	TAPE GRADE	REC GRD	FIRST ARRIVAL	CALIBRATION AMP VAL CH	100 /10
1	208	24 23 31.3	-45 55 9.2	689	175.542	46.0	49		5	-4	0				
2	209	24 22 47.5	-45 54 0.4	684	173.208	45.8	58		78	-7	0				
3	210	24 22 14.9	-45 52 53.6	682	171.162	45.6	122		144	8	0	2	28.14		
4	211	24 21 54.2	-45 52 2.3	689	169.681	45.4	68		198	24	0				
5	212	24 21 33.6	-45 51 13.0	689	168.247	45.3	83		250	-5	0				
6	213	24 21 2.6	-45 50 1.2	687	166.137	45.0	77		296	22	0				
7	214	24 20 39.5	-45 49 8.3	690	164.581	44.8	89		339	15	0				
8	215	24 20 19.1	-45 47 54.2	687	162.667	44.4	96		379	2	0	2	26.84		
9	216	24 20 0.8	-45 46 55.9	686	161.115	44.2	133		406	-10	0				
10	217	24 19 34.0	-45 45 23.7	695	158.719	43.7	107		443	-7	0	1	25.63		
11	218	24 19 8.9	-45 43 54.6	706	156.429	43.2	110		5	3	0	1	25.40		
12	219	24 18 55.2	-45 43 9.3	717	155.248	43.0	112		--	3	1				
13	220	24 18 36.0	-45 42 30.9	722	154.079	42.8	119		77	-3	0	0	24.90		
14	221	24 18 1.8	-45 41 13.1	731	151.818	42.5	121		139	15	0				
15	222	24 17 28.0	-45 40 6.2	747	149.778	42.2	103		194	-9	0	0	24.18		
16	223	24 17 9.7	-45 39 29.6	721	148.666	42.1	19		244	49	0	0	24.08		
17	224	24 16 39.6	-45 38 33.2	714	146.914	41.9	30		290	-9	0	0	23.80		
18	225	24 16 5.9	-45 37 33.5	707	145.017	41.6	31		333	2	0				
19	226	24 15 43.4	-45 37 2.2	699	143.912	41.6	39		373	-8	0				
20	227	24 15 4.7	-45 36 11.5	703	142.071	41.4	75		412	-7	0				

DATA FOR ONE TEAM-SHOT

SAUDI ARABIA 1978
SHOT NUMBER 2 TEAM 4
SHOT POINT 2
SHOT TIME: 34: 1:45: 0.650

	LOC	LATITUDE	LONGITUDE	ELEV	DIST(KM)	AZIM	UNIT	NOTES	FOOTAGE	CHRON	TAPE GRADE	REC GRD	FIRST ARRIVAL	CALIBRATION AMP VAL CH	100 /10
1	228	24 14 27.6	-45 35 26.1	716	140.365	41.4	60		5	-12	0				
2	229	24 13 15.5	-45 33 37.3	692	136.671	41.0	35		77	-19	0				
3	230	24 12 35.2	-45 32 37.6	695	134.627	40.8	106		139	-11	0	1	22.11		
4	231	24 11 54.5	-45 31 35.9	696	132.541	40.6	48		--	10	1				
5	232	24 11 22.1	-45 30 32.5	699	130.621	40.3	139		194	-12	0	1	21.50		
6	233	24 10 51.8	-45 29 24.0	703	128.663	39.9	100		244	-10	0				
7	234	24 10 23.1	-45 28 19.1	707	126.812	39.5	138	UNIT 130	290	-22	0/22	0	20.84		
8	235	24 9 56.5	-45 27 17.5	712	125.078	39.1	85		334	30	0	0	20.25		
9	236	24 9 27.6	-45 26 11.8	717	123.221	38.7	113		--	-1001	0				
10	237	24 8 54.0	-45 25 10.3	719	121.328	38.4	18		--	-16	0	0	19.70		
11	238	24 8 15.9	-45 24 16.5	726	119.464	38.2	70		--	-13	0	1	19.31		
12	239	24 7 34.4	-45 23 17.6	734	117.432	37.9	129		--	8	0	1	18.87		
13	240	24 6 52.8	-45 22 18.4	744	115.394	37.6	136		--	50	0	2	19.03		
14	241	24 6 13.3	-45 21 22.3	759	113.464	37.4	51		--	7	0	1	18.44		
15	242	24 5 33.1	-45 20 25.1	771	111.500	37.1	93		--	-17	0				
16	243	24 4 53.0	-45 19 28.0	780	109.544	36.8	22		--	-19	3				
17	244	24 4 20.9	-45 18 26.3	802	107.709	36.4	124		--	8	0	2	17.93		
18	245	24 3 52.3	-45 17 6.8	825	105.676	35.7	40		--	5	0				
19	246	24 2 14.4	-45 13 57.0	840	100.134	34.2	17		--	19	0	2	16.08		
20	247	24 0 54.1	-45 12 45.4	848	96.948	34.0	131		--	-28	0	2	15.43		

DATA FOR ONE TEAM-SHOT

SAUDI ARABIA 1978
SHOT NUMBER 2 TEAM 5
SHOT POINT 2
SHOT TIME: 34: 1:45: 0.650

	LOC	LATITUDE	LONGITUDE	ELEV	DIST(KM)	AZIM	UNIT	NOTES	FOOTAGE	CHRON	TAPE GRADE	REC GRD	FIRST ARRIVAL	CALIBRATION AMP VAL CH	100 /10
1	248	24 0 1.1	-45 11 19.6	869	94.244	33.4	145		--	-11	0	2	15.12		
2	249	23 59 32.9	-45 10 55.8	871	93.147	33.3	99		--	1	0				
3	250	23 58 53.3	-45 9 52.3	873	91.146	32.8	94		--	28	3/ 4				
4	251	23 58 26.5	-45 9 11.6	882	89.829	32.4	88		--	-22	0	1	14.56		
5	252	23 57 32.0	-45 7 48.8	893	87.161	31.7	97		--	-32	0	1	14.10		
6	253	23 56 59.4	-45 6 37.9	910	85.263	30.9	146		--	28	0				
7	254	23 56 3.7	-45 5 54.5	931	83.158	30.8	104		--	-27	0				
8	255	23 55 27.1	-45 5 2.0	926	81.430	30.3	118		--	34	0	2	13.20		
9	256	23 54 45.9	-45 3 39.0	947	78.957	29.3	69		--	5	17				
10	257	23 54 5.8	-45 2 57.2	949	77.302	29.0	76		--	77	0	2	12.26		
11	258	23 53 59.5	-45 2 10.0	950	76.492	28.2	56		--	7	0	2	12.33		
12	259	23 53 1.7	-45 1 8.2	940	74.101	27.7	73		--	-23	17/21				
13	260	23 51 43.6	-45 0 21.0	920	71.354	27.6	72		--	4	0	1	11.45		
14	261	23 50 43.7	-44 59 36.3	920	69.132	27.4	71		--	-87	0	0	11.16		
15	262	23 49 46.9	-44 58 46.0	932	66.930	27.0	63		--	-33	0	1	10.77		
16	263	23 48 55.0	-44 58 19.3	926	65.161	27.0	12		--	-16	0	0	10.38		
17	264	23 47 57.4	-44 58 0.8	901	63.347	27.3	14		--	-28	0	0	10.08		
18	265	23 46 54.1	-44 57 32.8	894	61.253	27.5	15		--	-17	17/21				
19	266	23 45 47.7	-44 57 10.2	889	59.147	27.9	36		--	-25	0	0	9.45		
20	267	23 44 46.3	-44 56 46.7	888	57.170	28.2	43		--	0	3/24				

DATA FOR ONE TEAM-SHOT

SAUDI ARABIA 1978
 SHOT NUMBER 3 TEAM 1
 SHOT POINT 1
 SHOT TIME: 37: 1: 0: 0.012

	LOC	LATITUDE	LONGITUDE	ELEV	DIST(KM)	AZIM	UNIT	NOTES	FOOTAGE	CHRON	TAPE GRADE	REC GRD	FIRST ARRIVAL	CALIBRATION		
														AMP	VAL	CH 100 /10
1	268	23 43 52.3	-44 56 35.2	884	89.624	228.2	115		--	13	0	0	14.78			
2	269	23 42 55.9	-44 56 10.4	884	91.316	227.7	28		--	-15	2					
3	270	23 42 8.3	-44 55 51.0	884	92.718	227.3	3		--	-18	0	0	15.15			
4	271	23 41 4.4	-44 55 13.5	888	94.843	226.8	143		--	34	0	0	15.57			
5	272	23 40 15.8	-44 54 17.5	891	97.027	226.8	34		--	-13	0	2	15.68			
6	273	23 39 15.3	-44 53 49.0	893	98.900	226.3	66		--	-14	6	1	15.90			
7	274	23 38 4.3	-44 52 22.5	908	102.184	226.4	108		--	7	0					
8	275	23 37 47.5	-44 50 47.8	917	104.485	227.2	53		--	-12	0	1	17.10			
9	276	23 37 13.3	-44 49 21.8	929	106.987	227.7	98		--	18	0					
10	277	23 36 24.0	-44 48 18.8	946	109.331	227.7	90		--	-12	1					
11	278	23 36 14.4	-44 47 52.5	947	110.079	227.9			--	--	21					
12	279	23 35 19.2	-44 47 31.3	931	111.677	227.4	65		--	-223	6	1	17.81			
13	280	23 34 20.8	-44 47 46.5	928	112.600	226.6	87		--	72	0	1	18.37			
14	281	23 34 20.2	-44 46 40.1	942	113.979	227.3	10		--	67	0	0	18.73			
15	282	23 34 5.3	-44 45 50.7	945	115.317	227.6	33		--	-18	0	0	18.43			
16	283	23 33 48.2	-44 45 21.8	949	116.275	227.6	79		--	9	0					
17	284	23 33 22.0	-44 44 53.2	957	117.420	227.6	26		--	-2	0	0	19.07			
18	285	23 33 12.9	-44 44 29.1	957	118.110	227.7	125		--	-27	2					
19	286	23 32 6.6	-44 43 45.8	968	120.403	227.4	128		--	47	0					
20	287	23 31 14.7	-44 43 19.3	951	122.045	227.1	24		--	9	0	1	19.80			

SAUDI ARABIA 1978
 SHOT NUMBER 3 TEAM 2
 SHOT POINT 1
 SHOT TIME: 37: 1: 0: 0.012

DATA FOR ONE TEAM--SHOT

	LOC	LATITUDE	LONGITUDE	ELEV	DIST(KM)	AZIM	UNIT	NOTES	FOOTAGE	CHRON	TAPE GRADE	REC GRD	FIRST ARRIVAL	CALIBRATION AMP VAL CH 100 /10
1	288	23 30 32.8	-44 42 49.9	942	123.539	226.9	132		--	-14	0			
2	289	23 29 34.8	-44 43 4.3	939	124.484	226.2	105		--	--	28			
3	290	23 28 29.7	-44 42 52.1	934	126.138	225.7	78		--	8	0	1	20.52	
4	291	23 27 25.9	-44 42 48.8	932	127.595	225.1	92		--	-22	0	2	20.80	
5	292	23 26 21.4	-44 42 32.3	943	129.346	224.6	62		--	-13	0			
6	293	23 25 28.7	-44 42 11.9	946	130.918	224.3	52		--	-28	0	1	22.30	
7	294	23 24 16.7	-44 42 0.1	949	132.755	223.7	64		--	55	0	0	22.52	
8	295	23 23 26.9	-44 41 47.2	953	134.128	223.4	44		--	2	0	0	22.70	
9	296	23 22 30.6	-44 41 18.2	931	135.960	223.1	55		--	10	0	0	22.58	
10	297	23 21 9.6	-44 41 3.7	908	138.084	222.5	38		--	-5	17	0	23.34	
11	298	23 20 18.9	-44 40 56.7	893	139.380	222.2	101		--	-15	28			
12	299	23 19 15.5	-44 40 36.7	880	141.221	221.8	82		--	-21	0	0	23.58	
13	300	23 18 26.9	-44 40 20.7	886	142.648	221.5	142		--	19	0	0	24.18	
14	302	23 17 7.6	-44 39 51.4	889	145.041	221.2	25		--	40	0	1	24.56	
15	303	23 16 22.8	-44 40 3.3	879	145.872	220.7	23		--	--	0			
16	304	23 15 54.6	-44 39 18.2	878	147.366	220.9	74		--	-18	0	2	24.98	
17	305	23 14 45.9	-44 38 49.7	878	149.506	220.6	137		--	30	0	0	25.55	
18	307	23 13 56.7	-44 37 33.1	885	152.073	220.8	45		--	2	0	0	25.88	
19	308	23 12 29.5	-44 35 57.1	846	155.888	220.9	23		--	84	9	0	26.58	
20	309	23 11 50.8	-44 35 2.0	829	157.814	221.1	120		--	-18	0			

DATA FOR ONE TEAM-SHOT

SAUDI ARABIA 1978
SHOT NUMBER 3 TEAM 3
SHOT POINT 1
SHOT TIME: 37: 1: 0: 0.012

	LOC	LATITUDE		LONGITUDE		ELEV	DIST(KM)	AZIM	UNIT	NOTES	FOOTAGE	CHRON	TAPE GRADE	REC GRD	FIRST ARRIVAL	CALIBRATION			
																AMP	VAL	CH	100 /10
1	310	23	11	1.7	-44 34	19.3	810	159.756	221.0	49	--	-14	0						
2	311	23	10	11.9	-44 33	30.0	804	161.834	221.1	68	--	22	0	0	27.36				
3	312	23	9	21.3	-44 32	41.8	796	163.910	221.1	75	--	-12	0	0	27.90				
4	313	23	8	32.5	-44 31	53.9	788	165.943	221.1	112	--	-2	0	0	28.22				
5	314	23	7	44.6	-44 31	7.5	782	167.923	221.1	39	--	-11	0	0	28.57				
6	315	23	6	55.9	-44 30	18.8	775	169.964	221.1	119	--	-6	0	0	28.80				
7	316	23	6	6.2	-44 29	29.1	768	172.049	221.1	30	--	-18	0	0	28.96				
8	317	23	5	23.5	-44 28	34.4	764	174.064	221.2	96	--	-17	17	1	25.52				
9	318	23	4	49.0	-44 27	57.1	779	175.563	221.3	89	--	11	0						
10	319	23	3	57.6	-44 27	12.2	761	177.596	221.2	77	--	-19	0	0	30.70				
11	320	23	3	8.0	-44 26	26.1	765	179.615	221.2	58	--	-31	0						
12	321	23	2	18.9	-44 25	41.6	768	181.588	221.2	103	ERASED?	-17	0	1	30.47				
13	322	23	1	31.0	-44 24	55.4	771	183.566	221.2	122	--	4	0	0	30.99				
14	323	23	0	43.7	-44 24	15.3	784	185.415	221.2	31	--	-8	17	1	31.32				
15	324	22	59	35.2	-44 23	40.7	801	187.663	221.0	19	--	48	3/24						
16	325	22	58	28.5	-44 23	38.0	811	189.281	220.6	83	--	-15	0	1	31.80				
17	326	22	57	41.4	-44 23	18.7	824	190.747	220.5	110	--	5	0	1	32.00				
18	327	22	56	43.5	-44 22	53.0	834	192.586	220.3	107	--	-16	0	0	32.17				
19	328	22	56	4.8	-44 21	55.5	843	194.552	220.4	121	--	9	9	0	32.43				
20	329	22	55	23.5	-44 20	54.3	854	196.650	220.6	133	--	-19	0	1	32.90				

DATA FOR ONE TEAM-SHOT

SAUDI ARABIA 1978
SHOT NUMBER 3 TEAM 4
SHOT POINT 1
SHOT TIME: 37: 1: 0: 0.012

	LOC	LATITUDE		LONGITUDE		ELEV	DIST(KM)	AZIM	UNIT	NOTES	FOOTAGE	CHRON	TAPE GRADE	REC GRD	FIRST ARRIVAL	CALIBRATION			
																AMP	VAL	CH	100 /10
1	330	22 54	4.5	-44 19	7.5	902	200.477	220.8	17		--	45	0	1	32.11				
2	331	22 53	39.8	-44 18	9.5	915	202.128	221.0	22		--	-45	0						
3	332	22 53	20.1	-44 17	32.0	924	203.284	221.1	48		--	26	0	1	32.40				
4	333	22 52	52.7	-44 16	57.2	930	204.572	221.2	60		--	-32	0						
5	334	22 52	10.8	-44 16	31.1	943	206.036	221.1	131		--	-66	0						
6	335	22 51	37.3	-44 15	29.3	962	207.969	221.3	70		--	-32	0	1	33.20				
7	336	22 50	39.7	-44 14	13.7	979	210.720	221.4	100		--	-28	0						
8	337	22 50	4.9	-44 13	18.3	972	212.567	221.5	136		--	159	0	1	33.60				
9	338	22 49	20.4	-44 12	7.3	966	214.930	221.7	18		--	-4	0	1	33.72				
10	339	22 48	51.1	-44 11	29.4	957	216.324	221.7	106		--	-26	0	1	34.02				
11	340	22 48	9.6	-44 10	29.4	949	218.415	221.8	124		--	-2	17	0	34.26				
12	341	22 47	25.0	-44 9	24.9	935	220.663	221.9	138	UNIT 130	--	-57	22	0	34.50				
13	342	22 46	37.7	-44 8	16.6	941	223.047	222.1	40		--	11	17	2	34.82				
14	343	22 46	5.4	-44 7	35.8	946	224.562	222.1	129		--	33	0	2	34.86				
15	344	22 45	18.7	-44 6	15.4	990	227.165	222.3	113		--	16	0	2	35.55				
16	345	22 45	5.7	-44 5	36.6	996	228.202	222.4	35		--	-45	17						
17	346	22 44	27.1	-44 4	31.1	976	230.336	222.6	85		--	61	0	0	35.89				
18	347	22 43	3.6	-44 3	38.2	944	233.262	222.4	139		--	-28	0	0	36.04				
19	348	22 41	59.7	-44 3	9.8	953	235.271	222.3	51		--	5	0	2	36.37				
20	349	22 41	0.2	-44 2	54.1	951	236.942	222.0	93		--	-38	0	2	36.47				

DATA FOR ONE TEAM-SHOT

SAUDI ARABIA 1978
 SHOT NUMBER 3 TEAM 5
 SHOT POINT 1
 SHOT TIME: 37: 1: 0: 0.012

	LOC	LATITUDE	LONGITUDE	ELEV	DIST(KM)	AZIM	UNIT	NOTES	FOOTAGE	CHRON	TAPE GRADE	REC GRD	FIRST ARRIVAL	CALIBRATION		
														AMP	VAL	CH
1	350	22 39 31.2	-44 2 46.8	952	239.139	221.6	94		--	--	0	1	36.73			
2	351	22 39 22.1	-44 2 8.4	958	240.075	221.8	97		--	--	0	2	36.72			
3	352	22 38 43.8	-44 1 50.4	955	241.301	221.7	88		--	--	0					
4	353	22 38 1.0	-44 1 25.3	951	242.768	221.6	14		--	--	0					
5	354	22 36 40.2	-44 0 37.3	967	245.549	221.5	76		--	--	0	1	37.42			
6	355	22 36 15.5	-43 59 17.2	979	247.624	221.7	104		--	--	0					
7	356	22 35 14.0	-43 58 17.1	957	250.182	221.8	99		--	--	0					
8	357	22 34 30.1	-43 57 23.9	957	252.203	221.8	63		--	--	0	1	38.16			
9	358	22 33 18.2	-43 56 1.9	962	255.415	221.9	71		--	--	0	1	38.30			
10	359	22 32 40.6	-43 55 23.2	961	257.016	221.9	56		--	--	0	2	38.99			
11	360	22 31 57.4	-43 54 34.0	962	258.946	221.9	72		--	--	0					
12	361	22 31 21.8	-43 53 49.7	972	260.606	222.0	118		--	--	0					
13	362	22 30 32.8	-43 52 47.1	974	262.923	222.0	73		--	--	0	1	39.38			
14	363	22 29 38.7	-43 52 6.5	982	264.944	222.0	12		--	--	0	2	39.80			
15	364	22 28 59.3	-43 51 16.9	993	266.793	222.0	43		--	--	0	2	40.02			
16	365	22 28 25.6	-43 50 43.3	1001	268.206	222.0	15	TAPE GR??	--	--	0					
17	374	22 27 45.7	-43 49 41.0	1007	270.310	222.1	145		--	--	0	2	40.33			
18	375	22 27 26.5	-43 48 49.9	1020	271.721	222.3	69	TAPE GR??	--	--	0					
19	376	22 26 11.4	-43 48 4.0	1031	274.325	222.2	36		--	--	0	1	40.90			
20	377	22 25 7.4	-43 47 23.7	1074	276.566	222.1	146		--	--	0					

DATA FOR ONE TEAM-SHOT

SAUDI ARABIA 1978
 SHOT NUMBER 4 TEAM 1
 SHOT POINT 2
 SHOT TIME: 37: 1:15: 2.456

	LOC	LATITUDE	LONGITUDE	ELEV	DIST(KM)	AZIM	UNIT	NOTES	FOOTAGE	CHRON	TAPE GRADE	REC GRD	FIRST ARRIVAL	CALIBRATION AMP VAL CH	100 /10
1	268	23 43 52.3	-44 56 35.2	884	55.553	28.7	115		--	13	0	0	9.02		
2	269	23 42 55.9	-44 56 10.4	884	53.696	28.9	28		--	-15	2				
3	270	23 42 8.3	-44 55 51.0	884	52.148	29.2	3		--	-18	0	0	8.45		
4	271	23 41 4.4	-44 55 13.5	888	49.914	29.2	143		--	34	0	0	8.18		
5	272	23 40 15.8	-44 54 17.5	891	47.836	28.4	34		--	-13	0	2	7.68		
6	273	23 39 15.3	-44 53 49.0	893	45.817	28.6	66		--	-14	6	0	7.42		
7	274	23 38 4.3	-44 52 22.5	908	42.739	27.1	108		--	7	0	0	7.00		
8	275	23 37 47.5	-44 50 47.8	917	41.110	24.1	53		--	-12	0	0	6.63		
9	276	23 37 13.3	-44 49 21.8	929	39.191	21.5	98		--	18	0	1	6.30		
10	277	23 36 24.0	-44 48 18.8	946	37.142	19.8	90		--	-12	1				
11	278	23 36 14.4	-44 47 52.5	947	36.617	18.9			--	--	20				
12	279	23 35 19.2	-44 47 31.3	931	34.814	18.8	65		--	-223	6	0	5.44		
13	280	23 34 20.8	-44 47 46.5	928	33.270	20.5	87		--	72	0	0	5.50		
14	281	23 34 20.2	-44 46 40.1	942	32.637	17.4	10		--	67	0	0	5.36		
15	282	23 34 5.3	-44 45 50.7	945	31.803	15.3	33		--	-18	0	0	5.13		
16	283	23 33 48.2	-44 45 21.8	949	31.086	14.1	79		--	9	0	0	5.00		
17	284	23 33 22.0	-44 44 53.2	957	30.112	13.0	26		--	-2	0				
18	285	23 33 12.9	-44 44 29.1	957	29.694	11.8	125		--	-27	2				
19	286	23 32 6.6	-44 43 45.8	968	27.455	10.2	128		--	47	0				
20	287	23 31 14.7	-44 43 19.3	951	25.757	9.1	24		--	9	2	1	4.23		

DATA FOR ONE TEAM-SHOT

SAUDI ARABIA 1978
SHOT NUMBER 4 TEAM 2
SHOT POINT 2
SHOT TIME: 37: 1:15: 2.456

	LOC	LATITUDE	LONGITUDE	ELEV	DIST(KM)	AZIM	UNIT	NOTES	FOOTAGE	CHRON	TAPE GRADE	REC GRD	FIRST ARRIVAL	CALIBRATION		
														AMP	VAL	CH 100 /10
1	288	23 30 32.8	-44 42 49.9	942	24.359	7.7	132		--	-14	0	0	3.90			
2	289	23 29 34.8	-44 43 4.3	939	22.655	9.3	105		--	--	28					
3	290	23 28 29.7	-44 42 52.1	934	20.622	9.2	78		--	8	0	0	3.18			
4	291	23 27 25.9	-44 42 48.8	932	18.673	9.9	92		--	-22	0					
5	292	23 26 21.4	-44 42 32.3	943	16.635	9.5	62		--	-13	0	0	2.40			
6	293	23 25 28.7	-44 42 11.9	946	14.944	8.4	52		--	-28	0	0	1.88			
7	294	23 24 16.7	-44 42 0.1	949	12.706	8.3	64	FIRST ARR?	--	55	0	0	1.47			
8	295	23 23 26.9	-44 41 47.2	953	11.137	7.6	44		--	2	0	0	1.70			
9	296	23 22 30.6	-44 41 18.2	931	9.331	4.0	55		--	10	0	0	1.37			
10	297	23 21 9.6	-44 41 3.7	908	6.819	2.0	38		--	-5	17					
11	298	23 20 18.9	-44 40 56.7	893	5.255	0.4	101		--	-15	28					
12	299	23 19 15.5	-44 40 36.7	880	3.348	350.9	82		--	-21	0	0	0.40			
13	300	23 18 26.9	-44 40 20.7	886	2.061	331.5	142		--	19	0	0	0.27			
14	302	23 17 7.6	-44 39 51.4	889	1.923	250.9	25		--	40	0	0	0.20			
15	303	23 16 22.8	-44 40 3.3	879	2.493	216.4	23		--	--	0					
16	304	23 15 54.6	-44 39 18.2	878	3.986	223.8	74		--	-18	0					
17	305	23 14 45.9	-44 38 49.7	878	6.134	215.6	137		--	30	0	0	0.75			
18	307	23 13 56.7	-44 37 33.1	885	8.680	221.5	45		--	2	0	0	1.08			
19	308	23 12 29.5	-44 35 57.1	846	12.498	222.7	23		--	84	9	0	2.05			
20	309	23 11 50.8	-44 35 2.0	829	14.440	224.1	120		--	-18	0					

DATA FOR ONE TEAM-SHOT

SAUDI ARABIA 1978
 SHOT NUMBER 4 TEAM 3
 SHOT POINT 2
 SHOT TIME: 37: 11:15: 2.456

	LOC	LATITUDE	LONGITUDE	ELEV	DIST(KM)	AZIM	UNIT	NOTES	FOOTAGE	CHRON	TAPE GRADE	REC GRD	FIRST ARRIVAL	CALIBRATION			
														AMP	VAL	CH	100 /10
1	310	23 11 1.7	-44 34 19.3	810	16.372	223.5	49		--	-14	0	0	2.68				
2	311	23 10 11.9	-44 33 30.0	804	18.448	223.3	68		--	22	0	0	3.06				
3	312	23 9 21.3	-44 32 41.8	796	20.520	223.1	75		--	-12	0	0	3.39				
4	313	23 8 32.5	-44 31 53.9	788	22.550	223.1	112		--	-2	0	0	3.73				
5	314	23 7 44.6	-44 31 7.5	782	24.527	223.0	39		--	-11	0	0	4.03				
6	315	23 6 55.9	-44 30 18.8	775	26.566	222.9	119		--	-6	0	0	4.36				
7	316	23 6 6.2	-44 29 29.1	768	28.649	222.9	30		--	-18	0	0	4.65				
8	317	23 5 23.5	-44 28 34.4	764	30.673	223.4	96		--	-17	17	0	4.98				
9	318	23 4 49.0	-44 27 57.1	779	32.173	223.5	89		--	11	0	0	5.27				
10	319	23 3 57.6	-44 27 12.2	761	34.199	223.2	77		--	-19	0						
11	320	23 3 8.0	-44 26 26.1	765	36.212	223.1	58		--	-31	0						
12	321	23 2 18.9	-44 25 41.6	768	38.180	222.9	103		--	-17	0						
13	322	23 1 31.0	-44 24 55.4	771	40.155	222.8	122		--	4	16						
14	323	23 0 43.7	-44 24 15.3	784	41.997	222.6	31		--	-8	17	1	6.80				
15	324	22 59 35.2	-44 23 40.7	801	44.223	221.7	19		--	48	0	1	7.11				
16	325	22 58 28.5	-44 23 38.0	811	45.825	220.1	83		--	-15	3/16						
17	326	22 57 41.4	-44 23 18.7	824	47.290	219.5	110		--	5	0	0	7.80				
18	327	22 56 43.5	-44 22 53.0	834	49.133	218.8	107		--	-16	0						
19	328	22 56 4.8	-44 21 55.5	843	51.089	219.4	121		--	9	9	1	8.44				
20	329	22 55 23.5	-44 20 54.3	854	53.181	220.0	133		--	-19	0	2	8.83				

DATA FOR ONE TEAM-SHOT

SAUDI ARABIA 1978
SHOT NUMBER 4 TEAM 4
SHOT POINT 2
SHOT TIME: 37: 1:15: 2.456

	LOC	LATITUDE		LONGITUDE		ELEV	DIST(KM)	AZIM	UNIT	NOTES	FOOTAGE	CHRON	TAPE GRADE	REC GRD	FIRST ARRIVAL	CALIBRATION		
																AMP	VAL	CH 100 /10
1	330	22	54	4.5	-44 19	7.5	902	57.005	220.8	17		--	45	0	1	9.20		
2	331	22	53	39.8	-44 18	9.5	915	58.663	221.5	22		--	-45	0	0	9.71		
3	332	22	53	20.1	-44 17	32.0	924	59.825	221.9	48		--	26	0	0	9.81		
4	333	22	52	52.7	-44 16	57.2	930	61.116	222.0	60		--	-32	0				
5	334	22	52	10.8	-44 16	31.1	943	62.571	221.8	131		--	-66	0	0	10.30		
6	335	22	51	37.3	-44 15	29.3	962	64.516	222.3	70		--	-32	0	0	10.46		
7	336	22	50	39.7	-44 14	13.7	979	67.276	222.7	100		--	-28	0				
8	337	22	50	4.9	-44 13	18.3	972	69.135	223.0	136		--	159	0	0	11.46		
9	338	22	49	20.4	-44 12	7.3	966	71.517	223.5	18		--	-4	0				
10	339	22	48	51.1	-44 11	29.4	957	72.916	223.6	106		--	-26	0	1	12.00		
11	340	22	48	9.6	-44 10	29.4	949	75.022	223.9	124		--	-2	17	1	12.34		
12	341	22	47	25.0	-44 9	24.9	935	77.285	224.1	138	UNIT 130	--	-57	22	1	12.68		
13	342	22	46	37.7	-44 8	16.6	941	79.687	224.4	40		--	11	17	1	13.00		
14	343	22	46	5.4	-44 7	35.8	946	81.309	224.5	129		--	33	0	1	13.16		
15	344	22	45	18.7	-44 6	15.4	990	83.944	224.9	113		--	16	0	2	13.66		
16	345	22	45	5.7	-44 5	36.6	996	85.009	225.3	35		--	-45	17				
17	346	22	44	27.1	-44 4	31.1	976	87.171	225.6	85		--	61	0	1	14.47		
18	347	22	43	3.6	-44 3	38.2	944	90.061	225.1	139		--	-28	0	2	14.90		
19	348	22	41	59.7	-44 3	9.8	953	92.035	224.6	51		--	5	0	1	15.23		
20	349	22	41	0.2	-44 2	54.1	951	93.668	224.0	93		--	-38	0	2	15.34		

DATA FOR ONE TEAM-SHOT

SAUDI ARABIA 1978
 SHOT NUMBER 4 TEAM 5
 SHOT POINT 2
 SHOT TIME: 37: 1:15: 2.456

	LOC	LATITUDE	LONGITUDE	ELEV	DIST(KM)	AZIM	UNIT	NOTES	FOOTAGE	CHRON	TAPE GRADE	REC GRD	FIRST ARRIVAL	CALIBRATION		
														AMP	VAL	CH 100 /10
1	350	22 39 31.2	-44 2 46.8	952	95.812	222.9	94		--	--	0					
2	351	22 39 22.1	-44 2 8.4	958	96.765	223.3	97		--	--	0	1	16.13			
3	352	22 38 43.8	-44 1 50.4	955	97.979	223.1	88		--	--	0					
4	353	22 38 1.0	-44 1 25.3	951	99.438	222.8	14		--	--	0	1	16.07			
5	354	22 36 40.2	-44 0 37.3	967	102.204	222.5	76		--	--	0	0	16.91			
6	355	22 36 15.5	-43 59 17.2	979	104.307	223.1	104		--	--	0					
7	356	22 35 14.0	-43 58 17.1	957	106.866	223.1	99		--	--	0					
8	357	22 34 30.1	-43 57 23.9	957	108.892	223.2	63		--	--	0	0	18.36			
9	358	22 33 18.2	-43 56 1.9	962	112.111	223.3	71		--	--	0	0	18.44			
10	359	22 32 40.6	-43 55 23.2	961	113.713	223.3	56		--	--	0	0	18.88			
11	360	22 31 57.4	-43 54 34.0	962	115.647	223.3	72		--	--	0	0	19.10			
12	361	22 31 21.8	-43 53 49.7	972	117.312	223.4	118		--	--	0	2	19.27			
13	362	22 30 32.8	-43 52 47.1	974	119.638	223.5	73		--	--	0	0	19.70			
14	363	22 29 38.7	-43 52 6.5	982	121.651	223.4	12		--	--	0	1	19.90			
15	364	22 28 59.3	-43 51 16.9	993	123.507	223.5	43		--	--	0	0	20.20			
16	365	22 28 25.6	-43 50 43.3	1001	124.920	223.5	15	TAPE GR??	--	--	0					
17	374	22 27 45.7	-43 49 41.0	1007	127.038	223.7	145		--	--	0	0	20.98			
18	375	22 27 26.5	-43 48 49.9	1020	128.471	224.0	69	TAPE GR??	--	--	0					
19	376	22 26 11.4	-43 48 4.0	1031	131.056	223.7	36		--	--	0	0	21.67			
20	377	22 25 7.4	-43 47 23.7	1074	133.283	223.5	146		--	--	0					

DATA FOR ONE TEAM-SHOT

SAUDI ARABIA 1978
SHOT NUMBER 5 TEAM 1
SHOT POINT 1
SHOT TIME: 40: 1: 0: 0.012

	LOC	LATITUDE	LONGITUDE	ELEV	DIST(KM)	AZIM	UNIT	NOTES	FOOTAGE	CHRON	TAPE GRADE	CALIBRATION			
												REC GRD	FIRST ARRIVAL	AMP VAL	CH 100 /10
1	378	22 24 12.5	-43 47 9.3	1069	278.111	221.9	10		--	73	0				
2	379	22 23 10.8	-43 46 19.2	1063	280.487	221.9	79		--	9	0				
3	380	22 22 19.2	-43 45 49.5	1094	282.243	221.8	53		--	-13	0				
4	381	22 21 21.6	-43 44 34.2	1053	284.997	221.9	34		--	-16	0				
5	382	22 20 48.3	-43 43 39.5	1043	286.803	222.0	125		--	--	20				
6	383	22 20 26.6	-43 43 22.5	1038	287.628	221.9	115		--	12	17				
7	384	22 19 8.9	-43 42 42.3	1028	290.187	221.8	143		--	34	0				
8	385	22 18 56.3	-43 42 1.5	1021	291.250	221.9	26		--	2	0				
9	386	22 18 23.2	-43 41 32.0	1017	292.573	221.9	87		--	75	0				
10	387	22 17 48.6	-43 40 41.8	1008	294.324	222.0	66		--	-134	0				
11	388	22 17 8.8	-43 39 45.7	998	296.307	222.0	24		--	8	0				
12	389	22 16 9.6	-43 39 31.5	995	297.947	221.9	33		--	-21	0				
13	390	22 15 16.5	-43 39 0.7	993	299.760	221.8	3		--	-19	0				
14	391	22 14 23.4	-43 38 54.5	999	301.114	221.6			--	--	20				
15	392	22 14 3.7	-43 38 48.0	996	301.693	221.6	98		--	11	0	1	44.00		
16	393	22 13 0.7	-43 38 41.0	983	303.294	221.3	108		--	-8	0				
17	394	22 11 42.6	-43 38 30.9	979	305.314	221.1	90		--	-11	0				
18	395	22 10 32.1	-43 38 23.8	983	307.102	220.8	65		--	-17	0	1	45.50		
19	396	22 9 28.6	-43 38 12.6	980	308.806	220.7	28		--	-12	0				
20	397	22 8 22.9	-43 37 57.8	974	310.633	220.5	128		--	12	0				

DATA FOR ONE TEAM-SHOT

SAUDI ARABIA 1978
SHOT NUMBER 5 TEAM 2
SHOT POINT 1
SHOT TIME: 40: 1: 0: 0.012

	LOC	LATITUDE	LONGITUDE	ELEV	DIST(KM)	AZIM	UNIT	NOTES	FOOTAGE	CHRON	TAPE GRADE	REC GRD	FIRST ARRIVAL	CALIBRATION		
														AMP	VAL	CH /10
1	398	22 7 17.3	-43 37 45.4	974	312.416	220.3	44		--	3	0	1	45.90			
2	399	22 6 15.5	-43 37 41.0	973	313.965	220.1	23		--	14	0					
3	400	22 4 51.4	-43 37 29.0	970	316.190	219.8	55		--	9	3/24					
4	401	22 3 36.8	-43 37 19.3	967	318.154	219.6	142		--	18	0					
5	402	22 2 42.0	-43 37 11.7	962	319.607	219.4	120		--	-9	0	1	46.81			
6	403	22 1 42.5	-43 36 55.7	957	321.326	219.3	105		--	-14	0					
7	404	22 0 24.8	-43 36 43.0	956	323.426	219.1	78		--	6	0					
8	405	21 59 29.0	-43 36 28.4	957	325.037	218.9	25		--	31	0	1	47.63			
9	406	21 58 7.7	-43 35 54.5	964	327.606	218.8	74		--	-16	1					
10	407	21 57 39.5	-43 35 47.3	967	328.421	218.7	101		--	113	0					
11	408	21 56 41.5	-43 35 6.9	956	330.544	218.7	132		--	-6	0	1	48.18			
12	409	21 55 39.0	-43 34 49.4	955	332.372	218.6	52		--	-28	0					
13	410	21 55 3.8	-43 34 41.6	957	333.365	218.5	32	1:13IS1:00	--	351	17					
14	411	21 54 5.3	-43 34 18.6	948	335.195	218.4	64		--	-81	0					
15	412	21 53 8.6	-43 33 39.4	950	337.270	218.3	45		--	3	0					
16	413	21 51 56.6	-43 33 17.3	936	339.417	218.2	82		--	-20	0					
17	414	21 51 5.5	-43 32 51.7	938	341.114	218.1	62		--	-15	0					
18	415	21 50 3.9	-43 32 23.3	928	343.119	218.0	137		--	17	0					
19	416	21 49 0.5	-43 31 56.3	925	345.144	217.9	38		--	15	17					
20	417	21 47 40.5	-43 30 55.1	931	348.174	217.9	92		--	-20	0					

DATA FOR ONE TEAM-SHOT

SAUDI ARABIA 1978
 SHOT NUMBER 5 TEAM 3
 SHOT POINT 1
 SHOT TIME: 40: 1: 0: 0.012

													CALIBRATION			
	LOC	LATITUDE	LONGITUDE	ELEV	DIST(KM)	AZIM	UNIT	NOTES	FOOTAGE	CHRON	TAPE GRADE	REC GRD	FIRST ARRIVAL	AMP	VAL	CH 100 /10
1	418	21 46 12.6	-43 30 35.2	922	350.681	217.7	30		--	-20	0	1	50.80			
2	419	21 44 58.6	-43 31 38.7	914	351.412	217.3	119	1:12IS1:00	--	0	17					
3	420	21 43 45.1	-43 31 41.7	911	353.184	217.0	49		--	-15	0	1	50.90			
4	421	21 42 29.5	-43 32 18.7	908	354.434	216.7	122		--	18	0					
5	422	21 41 26.9	-43 32 45.0	907	355.557	216.4	121		--	23	0	1	51.00			
6	423	21 40 43.1	-43 33 10.4	905	356.230	216.2	39		--	-10	17					
7	424	21 39 46.8	-43 33 41.2	896	357.133	215.9	133		--	-19	0					
8	425	21 38 38.4	-43 34 17.1	906	358.266	215.6	83		--	-33	21					
9	426	21 37 43.4	-43 34 30.6	902	359.436	215.4	89		--	23	0					
10	427	21 36 39.7	-43 34 42.5	904	360.859	215.1	112		--	-5	0					
11	428	21 35 52.5	-43 34 49.7	897	361.941	215.0	77		--	-30	0	2	51.96			
12	429	21 35 7.5	-43 34 20.9	889	363.556	215.0	19		--	55	0					
13	430	21 34 13.8	-43 33 47.5	882	365.466	214.9	31		--	-10	0					
14	431	21 33 24.9	-43 33 23.1	876	367.108	214.9	58		--	-20	0					
15	432	21 32 14.4	-43 32 56.5	872	369.341	214.8	68		--	14	0					
16	433	21 30 51.2	-43 32 19.6	866	372.062	214.7	103		--	-14	0					
17	434	21 29 52.1	-43 32 9.7	857	373.731	214.6	107		--	-43	0					
18	435	21 29 5.0	-43 32 56.4	856	374.192	214.3	75		--	-13	0					
19	436	21 27 48.2	-43 31 34.6	849	377.468	214.4	110		--	-34	0					
20	437	21 26 55.9	-43 31 22.9	845	378.999	214.3	96		--	-17	0					

DATA FOR ONE TEAM-SHOT

SAUDI ARABIA 1978
 SHOT NUMBER 5 TEAM 4
 SHOT POINT 1
 SHOT TIME: 40: 1: 0: 0.012

	LOC	LATITUDE	LONGITUDE	ELEV	DIST(KM)	AZIM	UNIT	NOTES	FOOTAGE	CHRON	TAPE GRADE	REC GRD	FIRST ARRIVAL	CALIBRATION AMP VAL CH	100 /10
1	438	21 25 16.5	-43 30 41.2	842	382.217	214.2	17		--	23	0				
2	439	21 24 21.6	-43 30 39.3	836	383.661	214.1	48	LOC ON DSK	--	16	0				
3	440	21 23 11.5	-43 30 4.9	839	386.012	214.0	60		--	-19	0				
4	441	21 21 42.0	-43 29 38.2	827	388.745	213.9	100		--	-16	0				
5	442	21 21 20.5	-43 30 1.1	830	388.938	213.7	131		--	-41	0				
6	443	21 19 59.2	-43 29 34.0	829	391.467	213.6	70		--	-21	0				
7	444	21 18 58.5	-43 29 16.6	832	393.313	213.5	106		--	-21	0				
8	445	21 17 41.9	-43 28 58.1	834	395.588	213.4	93		--	1622	0				
9	446	21 16 39.8	-43 28 20.1	836	397.791	213.4	136		--	87	0				
10	970	21 15 19.3	-43 27 59.2	840	400.208	213.3	40		--	5	0				
11	448	21 13 52.6	-43 27 2.7	847	403.341	213.3	129		--	31	0				
12	449	21 12 40.2	-43 26 33.1	855	405.682	213.2	18	CLOCK STOP	--	-3	0				
13	450	21 11 50.9	-43 26 16.1	857	407.229	213.1	35		--	-27	0				
14	451	21 11 1.5	-43 25 48.8	856	408.938	213.1	139	LOC ON DSK	--	-16	0				
15	452	21 10 2.9	-43 25 15.7	858	410.976	213.1	124		--	-534	0				
16	971	21 8 52.5	-43 24 52.6	863	413.168	213.0	130		--	-32	0				
17	454	21 8 17.7	-43 24 18.5	862	414.602	213.0	113		--	10	0				
18	972	21 6 35.2	-43 23 31.6	872	417.999	212.9	85		--	31	0				
19	456	21 5 38.8	-43 22 49.7	871	420.116	213.0	51		--	7	0				
20	457	21 4 30.4	-43 22 17.3	875	422.401	212.9	22		--	-27	0				

DATA FOR ONE TEAM-SHOT

SAUDI ARABIA 1978
 SHOT NUMBER 5 TEAM 5
 SHOT POINT 1
 SHOT TIME: 40: 1: 0: 0.012

	LOC	LATITUDE	LONGITUDE	ELEV	DIST(KM)	AZIM	UNIT	NOTES	FOOTAGE	CHRON	TAPE GRADE	CALIBRATION			
												REC GRD	FIRST ARRIVAL	AMP VAL	CH /10
1	458	21 1 59.6	-43 20 27.0	903	428.037	212.9	36		--	-35	1				
2	459	21 1 1.4	-43 19 37.6	889	430.319	213.0	63		--	-47	0				
3	460	21 0 19.6	-43 18 54.4	891	432.076	213.0	72	TAPE GR?	--	-13	0				
4	461	20 59 36.0	-43 18 14.6	894	433.828	213.0	15		--	--	20				
5	462	20 58 54.1	-43 17 36.8	896	435.505	213.1	76		--	41	0				
6	463	20 57 57.9	-43 16 43.8	918	437.790	213.1	97		--	-70	0				
7	464	20 57 9.0	-43 16 13.8	905	439.528	213.1	43		--	-2	0				
8	465	20 56 14.7	-43 15 37.3	908	441.507	213.1	14		--	-22	0				
9	466	20 55 29.4	-43 15 7.7	911	443.146	213.1	88		--	-34	1				
10	467	20 54 43.9	-43 14 35.7	914	444.827	213.1	69		--	--	20				
11	468	20 53 59.7	-43 14 2.9	917	446.488	213.1	56		--	5	1				
12	469	20 52 59.6	-43 13 29.6	921	448.571	213.1	104		--	-37	0				
13	470	20 51 51.5	-43 12 49.8	926	450.961	213.0	145		--	-42	0				
14	471	20 50 52.9	-43 12 9.8	931	453.108	213.0	94		--	29	0				
15	472	20 49 50.2	-43 11 28.2	935	455.386	213.0	71	TAPE GRD?	--	33	0				
16	473	20 48 42.3	-43 10 50.9	940	457.736	213.0	12		--	-27	0				
17	474	20 47 36.8	-43 10 18.3	944	459.946	213.0	99		--	-7	0				
18	475	20 46 22.6	-43 9 40.7	949	462.464	212.9	73	TAPE GRD?	--	-65	0				
19	476	20 45 18.7	-43 9 7.8	953	464.638	212.9	118		--	21	0				
20	477	20 44 24.2	-43 8 34.7	957	466.574	212.9	146		--	33	0				

DATA FOR ONE TEAM-SHOT

SAUDI ARABIA 1978
SHOT NUMBER 6 TEAM 1
SHOT POINT 2
SHOT TIME: 40: 1:45: 0.876

	LOC	LATITUDE	LONGITUDE	ELEV	DIST(KM)	AZIM	UNIT	NOTES	FOOTAGE	CHRON	TAPE GRADE	REC GRD	FIRST ARRIVAL	CALIBRATION AMP VAL CH	100 /10
1	378	22 24 12.5	-43 47 9.3	1069	134.807	223.1	10		--	73	0				
2	379	22 23 10.8	-43 46 19.2	1063	137.177	223.0	79		--	9	0				
3	380	22 22 19.2	-43 45 49.5	1094	138.924	222.8	53		--	-13	0				
4	381	22 21 21.6	-43 44 34.2	1053	141.687	223.0	34		--	-16	0				
5	382	22 20 48.3	-43 43 39.5	1043	143.504	223.1	125		--	--	20				
6	383	22 20 26.6	-43 43 22.5	1038	144.326	223.1	115		--	12	17				
7	384	22 19 8.9	-43 42 42.3	1028	146.869	222.8	143		--	34	0				
8	385	22 18 56.3	-43 42 1.5	1021	147.945	223.0	26		--	2	0				
9	386	22 18 23.2	-43 41 32.0	1017	149.267	223.0	87		--	75	0				
10	387	22 17 48.6	-43 40 41.8	1008	151.026	223.1	66		--	-134	0				
11	388	22 17 8.8	-43 39 45.7	998	153.018	223.2	24		--	8	0				
12	389	22 16 9.6	-43 39 31.5	995	154.636	222.9	33		--	-21	0				
13	390	22 15 16.5	-43 39 0.7	993	156.441	222.7	3		--	-19	0				
14	391	22 14 23.4	-43 38 54.5	999	157.777	222.4			--	--	20				
15	392	22 14 3.7	-43 38 48.0	996	158.352	222.3	98		--	11	0				
16	393	22 13 0.7	-43 38 41.0	983	159.937	221.8	108		--	-8	0				
17	394	22 11 42.6	-43 38 30.9	979	161.944	221.4	90		--	-11	0				
18	395	22 10 32.1	-43 38 23.8	983	163.725	220.9	65		--	-17	0				
19	396	22 9 28.6	-43 38 12.6	980	165.426	220.6	28		--	-12	0				
20	397	22 8 22.9	-43 37 57.8	974	167.253	220.2	128		--	12	0				

DATA FOR ONE TEAM-SHOT

SAUDI ARABIA 1978
SHOT NUMBER 6 TEAM 2
SHOT POINT 2
SHOT TIME: 40: 1:45: 0.876

													CALIBRATION						
	LOC	LATITUDE			LONGITUDE			ELEV	DIST(KM)	AZIM	UNIT	NOTES	FOOTAGE	CHRON	TAPE GRADE	REC GRD	FIRST ARRIVAL	AMP VAL CH	100 /10
1	398	22	7	17.3	-43	37	45.4	974	169.039	219.9	44		--	3	0				
2	399	22	6	15.5	-43	37	41.0	973	170.594	219.5	23		--	14	0				
3	400	22	4	51.4	-43	37	29.0	970	172.831	219.0	55		--	9	0				
4	401	22	3	36.8	-43	37	19.3	967	174.810	218.6	142		--	18	0				
5	402	22	2	42.0	-43	37	11.7	962	176.276	218.3	120		--	-9	0				
6	403	22	1	42.5	-43	36	55.7	957	178.008	218.1	105		--	-14	0				
7	404	22	0	24.8	-43	36	43.0	956	180.131	217.7	78		--	6	0				
8	405	21	59	29.0	-43	36	28.4	957	181.757	217.5	25		--	31	0				
9	406	21	58	7.7	-43	35	54.5	964	184.344	217.3	74		--	-16	1				
10	407	21	57	39.5	-43	35	47.3	967	185.168	217.2	101	4:45IS1:45	--	113	17				
11	408	21	56	41.5	-43	35	6.9	956	187.295	217.1	132		--	-6	0				
12	409	21	55	39.0	-43	34	49.4	955	189.143	216.9	52		--	-28	0				
13	410	21	55	3.8	-43	34	41.6	957	190.149	216.7	32		--	351	0				
14	411	21	54	5.3	-43	34	18.6	948	191.995	216.6	64		--	-81	0				
15	412	21	53	8.6	-43	33	39.4	950	194.074	216.5	45		--	3	0				
16	413	21	51	56.6	-43	33	17.3	936	196.246	216.3	82		--	-20	0				
17	414	21	51	5.5	-43	32	51.7	938	197.953	216.2	62		--	-15	0				
18	415	21	50	3.9	-43	32	23.3	928	199.973	216.1	137		--	17	0				
19	416	21	49	0.5	-43	31	56.3	925	202.015	215.9	38		--	15	0				
20	417	21	47	40.5	-43	30	55.1	931	205.047	215.9	92		--	-20	0				

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DATA FOR ONE TEAM-SHOT

SAUDI ARABIA 1978
 SHOT NUMBER 6 TEAM 3
 SHOT POINT 2
 SHOT TIME: 40: 1:45: 0.876

	LOC	LATITUDE	LONGITUDE	ELEV	DIST(KM)	AZIM	UNIT	NOTES	FOOTAGE	CHRON	TAPE GRADE	REC GRD	FIRST ARRIVAL	CALIBRATION AMP VAL CH	100 /10
1	418	21 46 12.6	-43 30 35.2	922	207.592	215.6	30		--	-20	0				
2	419	21 44 58.6	-43 31 38.7	914	208.426	214.8	119		--	0	0				
3	420	21 43 45.1	-43 31 41.7	911	210.254	214.5	49		--	-15	0				
4	421	21 42 29.5	-43 32 18.7	908	211.601	213.9	122		--	18	0				
5	422	21 41 26.9	-43 32 45.0	907	212.805	213.4	121		--	23	0				
6	423	21 40 43.1	-43 33 10.4	905	213.546	213.1	39		--	-10	17				
7	424	21 39 46.8	-43 33 41.2	896	214.539	212.6	133		--	-19	0				
8	425	21 38 38.4	-43 34 17.1	906	215.786	212.1	83		--	-33	21				
9	426	21 37 43.4	-43 34 30.6	902	217.030	211.8	89		--	23	0				
10	427	21 36 39.7	-43 34 42.5	904	218.535	211.4	112		--	-5	0				
11	428	21 35 52.5	-43 34 49.7	897	219.678	211.2	77		--	-30	0				
12	429	21 35 7.5	-43 34 20.9	889	221.296	211.2	19		--	55	0				
13	430	21 34 13.8	-43 33 47.5	882	223.211	211.2	31		--	-10	0				
14	431	21 33 24.9	-43 33 23.1	876	224.867	211.1	58		--	-20	0				
15	432	21 32 14.4	-43 32 56.5	872	227.133	211.0	68		--	14	0				
16	433	21 30 51.2	-43 32 19.6	866	229.884	210.9	103		--	-14	0				
17	434	21 29 52.1	-43 32 9.7	857	231.600	210.7	107		--	-43	0				
18	435	21 29 5.0	-43 32 56.4	856	232.186	210.3	75		--	-13	0				
19	436	21 27 48.2	-43 31 34.6	849	235.413	210.5	110		--	-34	0				
20	437	21 26 55.9	-43 31 22.9	845	236.982	210.3	96		--	-17	0				

DATA FOR ONE TEAM-SHOT

SAUDI ARABIA 1978
 SHOT NUMBER 6 TEAM 4
 SHOT POINT 2
 SHOT TIME: 40: 1:45: 0.876

	LOC	LATITUDE	LONGITUDE	ELEV	DIST(KM)	AZIM	UNIT	NOTES	FOOTAGE	CHRON	TAPE GRADE	REC GRD	FIRST ARRIVAL	CALIBRATION AMP VAL CH	100 /10
1	438	21 25 16.5	-43 30 41.2	842	240.239	210.2	17		--	23	0				
2	439	21 24 21.6	-43 30 39.3	836	241.740	210.0	48	LOC ON DSK	--	16	0				
3	440	21 23 11.5	-43 30 4.9	839	244.110	210.0	60		--	-19	0				
4	441	21 21 42.0	-43 29 38.2	827	246.895	209.8	100		--	-16	0				
5	442	21 21 20.5	-43 30 1.1	830	247.151	209.6	131		--	-41	0				
6	443	21 19 59.2	-43 29 34.0	829	249.724	209.5	70		--	-21	0				
7	444	21 18 58.5	-43 29 16.6	832	251.606	209.4	106		--	-21	0				
8	445	21 17 41.9	-43 28 58.1	834	253.934	209.2	93		--	1622	0				
9	446	21 16 39.8	-43 28 20.1	836	256.141	209.2	136		--	87	0				
10	970	21 15 19.3	-43 27 59.2	840	258.610	209.1	40		--	5	0				
11	448	21 13 52.6	-43 27 2.7	847	261.741	209.1	129		--	31	0				
12	449	21 12 40.2	-43 26 33.1	855	264.111	209.0	18	CLOCK STOP	--	-3	0				
13	450	21 11 50.9	-43 26 16.1	857	265.682	209.0	35		--	-27	0				
14	451	21 11 1.5	-43 25 48.8	856	267.398	208.9	139	LOC ON DSK	--	-16	0				
15	452	21 10 2.9	-43 25 15.7	858	269.442	208.9	124		--	-534	0				
16	971	21 8 52.5	-43 24 52.6	863	271.672	208.8	130		--	-32	0				
17	454	21 8 17.7	-43 24 18.5	862	273.084	208.9	113		--	10	0				
18	972	21 6 35.2	-43 23 31.6	872	276.512	208.8	85		--	31	0				
19	456	21 5 38.8	-43 22 49.7	871	278.617	208.9	51		--	7	0				
20	457	21 4 30.4	-43 22 17.3	875	280.920	208.8	22		--	-27	0				

DATA FOR ONE TEAM-SHOT

SAUDI ARABIA 1978
 SHOT NUMBER 6 TEAM 5
 SHOT POINT 2
 SHOT TIME: 40: 1:45: 0.876

	LOC	LATITUDE	LONGITUDE	ELEV	DIST(KM)	AZIM	UNIT	NOTES	FOOTAGE	CHRON	TAPE GRADE	CALIBRATION			
												REC GRD	FIRST ARRIVAL	AMP VAL	CH /10
1	458	21 1 59.6	-43 20 27.0	903	286.532	209.0	36		--	-35	1				
2	459	21 1 1.4	-43 19 37.6	889	288.793	209.0	63		--	-47	0				
3	460	21 0 19.6	-43 18 54.4	891	290.522	209.1	72		--	-13	0				
4	461	20 59 36.0	-43 18 14.6	894	292.255	209.2	15		--	--	20				
5	462	20 58 54.1	-43 17 36.8	896	293.914	209.3	76		--	41	0				
6	463	20 57 57.9	-43 16 43.8	918	296.172	209.4	97		--	-70	0				
7	464	20 57 9.0	-43 16 13.8	905	297.912	209.4	43		--	-2	0				
8	465	20 56 14.7	-43 15 37.3	908	299.888	209.4	14		--	-22	0				
9	466	20 55 29.4	-43 15 7.7	911	301.527	209.4	88	TAPE GRD?	--	-34	0				
10	467	20 54 43.9	-43 14 35.7	914	303.203	209.4	69		--	--	20				
11	468	20 53 59.7	-43 14 2.9	917	304.857	209.4	56	TAPE GRD?	--	5	0				
12	469	20 52 59.6	-43 13 29.6	921	306.947	209.4	104		--	-37	0				
13	470	20 51 51.5	-43 12 49.8	926	309.342	209.4	145		--	-42	0				
14	471	20 50 52.9	-43 12 9.8	931	311.485	209.4	94		--	29	0				
15	472	20 49 50.2	-43 11 28.2	935	313.761	209.5	71	TAPE GRD?	--	33	0				
16	473	20 48 42.3	-43 10 50.9	940	316.119	209.4	12		--	-27	0				
17	474	20 47 36.8	-43 10 18.3	944	318.343	209.4	99		--	-7	0				
18	475	20 46 22.6	-43 9 40.7	949	320.874	209.4	73	TAPE GRD?	--	-65	0				
19	476	20 45 18.7	-43 9 7.8	953	323.059	209.4	118		--	21	0				
20	477	20 44 24.2	-43 8 34.7	957	324.997	209.4	146		--	33	0				

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DATA FOR ONE TEAM-SHOT

SAUDI ARABIA 1978
SHOT NUMBER 7 TEAM 1
SHOT POINT 6
SHOT TIME: 40: 4: 0: 0.042

	LOC	LATITUDE	LONGITUDE	ELEV	DIST(KM)	AZIM	UNIT	NOTES	FOOTAGE	CHRON	TAPE GRADE	REC GRD	FIRST ARRIVAL	CALIBRATION AMP VAL CH	100 /10
1	378	22 24 12.5	-43 47 9.3	1069	673.114	15.7	10		--	73	0				
2	379	22 23 10.8	-43 46 19.2	1063	670.889	15.6	79		--	9	0				
3	380	22 22 19.2	-43 45 49.5	1094	669.125	15.6	53		--	-13	0				
4	381	22 21 21.6	-43 44 34.2	1053	666.832	15.5	34		--	-16	0				
5	382	22 20 48.3	-43 43 39.5	1043	665.419	15.4	125		--	--	20				
6	383	22 20 26.6	-43 43 22.5	1038	664.643	15.3	115		--	12	0				
7	384	22 19 8.9	-43 42 42.3	1028	662.024	15.3	143		--	34	0				
8	385	22 18 56.3	-43 42 1.5	1021	661.337	15.2	26		--	2	0				
9	386	22 18 23.2	-43 41 32.0	1017	660.130	15.2	87		--	75	0				
10	387	22 17 48.6	-43 40 41.8	1008	658.720	15.1	66		--	-134	0				
11	388	22 17 8.8	-43 39 45.7	998	657.113	14.9	24		--	8	0				
12	389	22 16 9.6	-43 39 31.5	995	655.242	15.0	33		--	-21	0				
13	390	22 15 16.5	-43 39 0.7	993	653.430	14.9	3		--	-19	0				
14	391	22 14 23.4	-43 38 54.5	999	651.798	14.9			--	--	20				
15	392	22 14 3.7	-43 38 48.0	996	651.164	14.9	98		--	11	0				
16	393	22 13 0.7	-43 38 41.0	983	649.234	15.0	108		--	-8	0				
17	394	22 11 42.6	-43 38 30.9	979	646.828	15.0	90		--	-11	0				
18	395	22 10 32.1	-43 38 23.8	983	644.674	15.0	65		--	-17	0				
19	396	22 9 28.6	-43 38 12.6	980	642.699	15.0	28		--	-12	0				
20	397	22 8 22.9	-43 37 57.8	974	640.629	15.1	128		--	12	0				

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DATA FOR ONE TEAM-SHOT

SAUDI ARABIA 1978
 SHOT NUMBER 7 TEAM 2
 SHOT POINT 6
 SHOT TIME: 40: 4: 0: 0.042

	LOC	LATITUDE	LONGITUDE	ELEV	DIST(KM)	AZIM	UNIT	NOTES	FOOTAGE	CHRON	TAPE GRADE	REC GRD	FIRST ARRIVAL	CALIBRATION AMP VAL CH	100 /10
1	398	22 7 17.3	-43 37 45.4	974	638.580	15.1	44		--	3	0				
2	399	22 6 15.5	-43 37 41.0	973	636.708	15.1	23		--	14	0				
3	400	22 4 51.4	-43 37 29.0	970	634.112	15.1	55		--	9	0				
4	401	22 3 36.8	-43 37 19.3	967	631.813	15.2	142		--	18	0				
5	402	22 2 42.0	-43 37 11.7	962	630.124	15.2	120		--	-9	0				
6	403	22 1 42.5	-43 36 55.7	957	628.230	15.2	105		--	-14	0				
7	404	22 0 24.8	-43 36 43.0	956	625.821	15.2	78		--	6	0				
8	405	21 59 29.0	-43 36 28.4	957	624.048	15.2	25		--	31	0				
9	406	21 58 7.7	-43 35 54.5	964	621.372	15.2	74		--	-16	1				
10	407	21 57 39.5	-43 35 47.3	967	620.474	15.2	101		--	113	0				
11	408	21 56 41.5	-43 35 6.9	956	618.441	15.1	132		--	-6	0				
12	409	21 55 39.0	-43 34 49.4	955	616.447	15.1	52		--	-28	0				
13	410	21 55 3.8	-43 34 41.6	957	615.341	15.1	32		--	351	0				
14	411	21 54 5.3	-43 34 18.6	948	613.425	15.1	64		--	-81	0				
15	412	21 53 8.6	-43 33 39.4	950	611.438	15.1	45		--	3	0				
16	413	21 51 56.6	-43 33 17.3	936	609.124	15.1	82		--	-20	0				
17	414	21 51 5.5	-43 32 51.7	938	607.410	15.0	62		--	-15	0				
18	415	21 50 3.9	-43 32 23.3	928	605.361	15.0	137		--	17	0				
19	416	21 49 0.5	-43 31 56.3	925	603.269	15.0	38		--	15	0				
20	417	21 47 40.5	-43 30 55.1	931	600.426	14.9	92		--	-20	0				

DATA FOR ONE TEAM-SHOT

SAUDI ARABIA 1978
SHOT NUMBER 7 TEAM 3
SHOT POINT 6
SHOT TIME: 40: 4: 0: 0.042

	LOC	LATITUDE	LONGITUDE	ELEV	DIST(KM)	AZIM	UNIT	NOTES	FOOTAGE	CHRON	TAPE GRADE	REC GRD	FIRST ARRIVAL	CALIBRATION AMP VAL CH	100 /10
1	418	21 46 12.6	-43 30 35.2	922	597.654	14.9	30		---	-20	0				
2	419	21 44 58.6	-43 31 38.7	914	595.926	15.1	119		---	0	0				
3	420	21 43 45.1	-43 31 41.7	911	593.759	15.2	49		--	-15	0				
4	421	21 42 29.5	-43 32 18.7	908	591.793	15.3	122		--	18	0				
5	422	21 41 26.9	-43 32 45.0	907	590.132	15.5	121		---	23	0				
6	423	21 40 43.1	-43 33 10.4	905	589.026	15.6	39		--	-10	17				
7	424	21 39 46.8	-43 33 41.2	896	587.593	15.7	133		--	-19	0				
8	425	21 38 38.4	-43 34 17.1	906	585.844	15.9	83		--	-33	21				
9	426	21 37 43.4	-43 34 30.6	902	584.320	15.9	89		--	23	0				
10	427	21 36 39.7	-43 34 42.5	904	582.526	16.0	112		---	-5	0				
11	428	21 35 52.5	-43 34 49.7	897	581.185	16.1	77		--	-30	0				
12	429	21 35 7.5	-43 34 20.9	889	579.619	16.1	19		---	55	0				
13	430	21 34 13.8	-43 33 47.5	882	577.759	16.0	31		---	-10	0				
14	431	21 33 24.9	-43 33 23.1	876	576.113	16.0	58		---	-20	0				
15	432	21 32 14.4	-43 32 56.5	872	573.806	16.0	68		---	14	0				
16	433	21 30 51.2	-43 32 19.6	866	571.043	15.9	103		---	-14	0				
17	434	21 29 52.1	-43 32 9.7	857	569.212	16.0	107		--	-43	0				
18	435	21 29 5.0	-43 32 56.4	856	568.188	16.1	75		--	-13	0				
19	436	21 27 48.2	-43 31 34.6	849	565.257	16.0	110		---	-34	0				
20	437	21 26 55.9	-43 31 22.9	845	563.610	16.0	96		---	-17	0				

DATA FOR ONE TEAM-SHOT

SAUDI ARABIA 1978
SHOT NUMBER 7 TEAM 4
SHOT POINT 6
SHOT TIME: 40: 4: 0: 0.042

	LOC	LATITUDE	LONGITUDE	ELEV	DIST(KM)	AZIM	UNIT	NOTES	FOOTAGE	CHRON	TAPE GRADE	REC GRD	FIRST ARRIVAL	CALIBRATION AMP VAL CH	100 /10
1	438	21 25 16.5	-43 30 41.2	842	560.330	15.9	17		--	23	0				
2	439	21 24 21.6	-43 30 39.3	836	558.685	16.0	48	LOC ON DSK	--	16	0				
3	440	21 23 11.5	-43 30 4.9	839	556.330	15.9	60		---	-19	0				
4	441	21 21 42.0	-43 29 38.2	827	553.460	15.9	100		--	-16	0				
5	442	21 21 20.5	-43 30 1.1	830	553.006	16.0	131		--	-41	0				
6	443	21 19 59.2	-43 29 34.0	829	550.376	16.0	70		--	-21	0				
7	444	21 18 58.5	-43 29 16.6	832	548.436	16.0	106		---	-21	0				
8	445	21 17 41.9	-43 28 58.1	834	546.016	16.0	93		---	1622	0				
9	446	21 16 39.8	-43 28 20.1	836	543.871	16.0	136		---	87	0				
10	970	21 15 19.3	-43 27 59.2	840	541.314	16.0	40		--	5	0				
11	448	21 13 52.6	-43 27 2.7	847	538.289	15.9	129		--	31	0				
12	449	21 12 40.2	-43 26 33.1	855	535.906	15.9	18	CLOCK STOP	--	-3	0				
13	450	21 11 50.9	-43 26 16.1	857	534.307	15.9	35		--	-27	0				
14	451	21 11 1.5	-43 25 48.8	856	532.625	15.8	139	LOC ON DSK	--	-16	0				
15	452	21 10 2.9	-43 25 15.7	858	530.623	15.8	124		---	-534	0				
16	971	21 8 52.5	-43 24 52.6	863	528.348	15.8	130		--	-32	0				
17	454	21 8 17.7	-43 24 18.5	862	527.046	15.7	113		--	10	0				
18	972	21 6 35.2	-43 23 31.6	872	523.631	15.7	85		---	31	0				
19	456	21 5 38.8	-43 22 49.7	871	521.628	15.6	51		---	7	0				
20	457	21 4 30.4	-43 22 17.3	875	519.341	15.6	22		---	-27	0				

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DATA FOR ONE TEAM-SHOT

SAUDI ARABIA 1978
SHOT NUMBER 7 TEAM 5
SHOT POINT 6
SHOT TIME: 40: 4: 0: 0.042

	LOC	LATITUDE	LONGITUDE	ELEV	DIST(KM)	AZIM	UNIT	NOTES	FOOTAGE	CHRON	TAPE GRADE	REC GRD	FIRST ARRIVAL	CALIBRATION AMP VAL CH	100 /10
1	458	21 1 59.6	-43 20 27.0	903	514.000	15.3	36		--	-35	1				
2	459	21 1 1.4	-43 19 37.6	889	511.887	15.2	63		--	-47	0				
3	460	21 0 19.6	-43 18 54.4	891	510.314	15.1	72		--	-13	0				
4	461	20 59 36.0	-43 18 14.6	894	508.713	15.1	15		--	--	20				
5	462	20 58 54.1	-43 17 36.8	896	507.180	15.0	76		--	41	0				
6	463	20 57 57.9	-43 16 43.8	918	505.107	14.9	97		--	-70	0				
7	464	20 57 9.0	-43 16 13.8	905	503.425	14.8	43		--	-2	0				
8	465	20 56 14.7	-43 15 37.3	908	501.535	14.7	14		--	-22	0				
9	466	20 55 29.4	-43 15 7.7	911	499.963	14.7	88	TAPE GRD?	--	-34	0				
10	467	20 54 43.9	-43 14 35.7	914	498.370	14.6	69		--	--	20				
11	468	20 53 59.7	-43 14 2.9	917	496.808	14.5	56	TAPE GRD?	--	5	0				
12	469	20 52 59.6	-43 13 29.6	921	494.768	14.5	104		--	-37	0				
13	470	20 51 51.5	-43 12 49.8	926	492.445	14.4	145		--	-42	0				
14	471	20 50 52.9	-43 12 9.8	931	490.404	14.3	94		--	29	0				
15	472	20 49 50.2	-43 11 28.2	935	488.230	14.3	71	TAPE GRD?	--	33	0				
16	473	20 48 42.3	-43 10 50.9	940	485.929	14.2	12		--	-27	0				
17	474	20 47 36.8	-43 10 18.3	944	483.739	14.1	99		--	-7	0				
18	475	20 46 22.6	-43 9 40.7	949	481.250	14.1	73	TAPE GRD?	--	-65	0				
19	476	20 45 18.7	-43 9 7.8	953	479.105	14.0	118		--	21	0				
20	477	20 44 24.2	-43 8 34.7	957	477.238	14.0	146		--	33	0				

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DATA FOR ONE TEAM-SHOT

SAUDI ARABIA 1978
SHOT NUMBER 8 TEAM 1
SHOT POINT 2
SHOT TIME: 44: 1: 0: 0.011

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	LOC	LATITUDE	LONGITUDE	ELEV	DIST(KM)	AZIM	UNIT	NOTES	FOOTAGE	CHRON	TAPE GRADE	CALIBRATION			
												REC GRD	FIRST ARRIVAL	AMP	VAL CH 100 /10
1	378	22 24 12.5	-43 47 9.3	1069	134.807	223.1	143		--	33	0	0	22.20		
2	379	22 23 10.8	-43 46 19.2	1063	137.177	223.0	65		--	-16	0	0	22.54		
3	380	22 22 19.2	-43 45 49.5	1094	138.924	222.8	125	NO RUN??	--	--	1	1	22.80		
4	381	22 21 21.6	-43 44 34.2	1053	141.687	223.0	90		--	-8	0	0	23.24		
5	382	22 20 48.3	-43 43 39.5	1043	143.504	223.1			--	--	20				
6	383	22 20 26.6	-43 43 22.5	1038	144.326	223.1	53		--	-11	14	0	23.70		
7	384	22 19 8.9	-43 42 42.3	1028	146.869	222.8	33		--	-12	0	0	24.04		
8	385	22 18 56.3	-43 42 1.5	1021	147.945	223.0	79		--	5	0	1	24.10		
9	386	22 18 23.2	-43 41 32.0	1017	149.267	223.0	10		--	58	0	2	24.40		
10	387	22 17 48.6	-43 40 41.8	1008	151.026	223.1	26		--	-3	0	1	24.73		
11	388	22 17 8.8	-43 39 45.7	998	153.018	223.2	28		--	-16	0	1	25.02		
12	389	22 16 9.6	-43 39 31.5	995	154.636	222.9	98		--	82	0	1	25.41		
13	390	22 15 16.5	-43 39 0.7	993	156.441	222.7	87		--	63	0	0	25.65		
14	391	22 14 23.4	-43 38 54.5	999	157.777	222.4	108		--	-8	0	0	25.73		
15	392	22 14 3.7	-43 38 48.0	996	158.352	222.3	115		--	15	0	0	25.98		
16	393	22 13 0.7	-43 38 41.0	983	159.937	221.8	3		--	-13	0	0	26.22		
17	394	22 11 42.6	-43 38 30.9	979	161.944	221.4	128		--	16	0	0	26.78		
18	395	22 10 32.1	-43 38 23.8	983	163.725	220.9	34		--	-10	0	2	26.86		
19	396	22 9 28.6	-43 38 12.6	980	165.426	220.6	66		--	-94	0	0	27.12		
20	397	22 8 22.9	-43 37 57.8	974	167.253	220.2	24		--	5	0	0	27.52		

DATA FOR ONE TEAM-SHOT

SAUDI ARABIA 1978
SHOT NUMBER 8 TEAM 2
SHOT POINT 2
SHOT TIME: 44: 1: 0: 0.011

													CALIBRATION								
	LOC	LATITUDE			LONGITUDE			ELEV	DIST(KM)	AZIM	UNIT	NOTES	FOOTAGE	CHRON	TAPE GRADE	REC GRD	FIRST ARRIVAL	AMP	VAL	CH	100 /10
1	398	22	7	17.3	-43	37	45.4	974	169.039	219.9	44		--	2	0						
2	399	22	6	15.5	-43	37	41.0	973	170.594	219.5	45		--	3	0	2	28.30				
3	400	22	4	51.4	-43	37	29.0	970	172.831	219.0	82		--	-17	0	2	28.30				
4	401	22	3	36.8	-43	37	19.3	967	174.810	218.6	78		--	5	0	1	28.75				
5	402	22	2	42.0	-43	37	11.7	962	176.276	218.3	137		--	28	0	1	29.00				
6	403	22	1	42.5	-43	36	55.7	957	178.008	218.1	142		--	22	1						
7	404	22	0	24.8	-43	36	43.0	956	180.131	217.7	132		--	-10	17/25	1	29.45				
8	405	21	59	29.0	-43	36	28.4	957	181.757	217.5	120		--	-14	0	0	29.60				
9	406	21	58	7.7	-43	35	54.5	964	184.344	217.3	101		--	-12	0	2	30.00				
10	407	21	57	39.5	-43	35	47.3	967	185.168	217.2	52		--	-16	0						
11	408	21	56	41.5	-43	35	6.9	956	187.295	217.1	105		--	0	4	2	30.40				
12	409	21	55	39.0	-43	34	49.4	955	189.143	216.9	32		--	-8	0	1	30.81				
13	410	21	55	3.8	-43	34	41.6	957	190.149	216.7	38		--	--	0						
14	411	21	54	5.3	-43	34	18.6	948	191.995	216.6	55		--	8	0	2	31.00				
15	412	21	53	8.6	-43	33	39.4	950	194.074	216.5	74		--	-16	0	2	31.18				
16	413	21	51	56.6	-43	33	17.3	936	196.246	216.3	92		--	-21	0	2	31.38				
17	414	21	51	5.5	-43	32	51.7	938	197.953	216.2	64		--	58	0	2	31.80				
18	415	21	50	3.9	-43	32	23.3	928	199.973	216.1	23		--	82	0	2	31.97				
19	416	21	49	0.5	-43	31	56.3	925	202.015	215.9	25		--	40	0	2	32.40				
20	417	21	47	40.5	-43	30	55.1	931	205.047	215.9	62		--	-8	1	2	32.26				

DATA FOR ONE TEAM-SHOT

SAUDI ARABIA 1978
 SHOT NUMBER 8 TEAM 3
 SHOT POINT 2
 SHOT TIME: 44: 1: 0: 0.011

	LOC	LATITUDE	LONGITUDE	ELEV	DIST(KM)	AZIM	UNIT	NOTES	FOOTAGE	CHRON	TAPE GRADE	REC GRD	FIRST ARRIVAL	CALIBRATION		
														AMP	VAL	CH
1	418	21 46 12.6	-43 30 35.2	922	207.592	215.6	68		--	23	0	0	32.77			
2	419	21 44 58.6	-43 31 38.7	914	208.426	214.8	83		--	--	17	1	32.91			
3	420	21 43 45.1	-43 31 41.7	911	210.254	214.5	75		--	-8	0	1	32.84			
4	421	21 42 29.5	-43 32 18.7	908	211.601	213.9	49		--	-11	0	2	33.27			
5	422	21 41 26.9	-43 32 45.0	907	212.805	213.4	30		--	-16	0	2	33.50			
6	423	21 40 43.1	-43 33 10.4	905	213.546	213.1	103		--	-14	0	2	33.51			
7	424	21 39 46.8	-43 33 41.2	896	214.539	212.6	31		--	-2	0					
8	425	21 38 38.4	-43 34 17.1	906	215.786	212.1	122		--	15	0					
9	426	21 37 43.4	-43 34 30.6	902	217.030	211.8	119		--	-3	0	2	33.70			
10	427	21 36 39.7	-43 34 42.5	904	218.535	211.4	96		--	-14	0	2	33.89			
11	428	21 35 52.5	-43 34 49.7	897	219.678	211.2	19		--	46	0					
12	429	21 35 7.5	-43 34 20.9	889	221.296	211.2	39	NO RUN??	--	--	1	1	34.35			
13	430	21 34 13.8	-43 33 47.5	882	223.211	211.2	121		--	32	0					
14	431	21 33 24.9	-43 33 23.1	876	224.867	211.1	89		--	10	0					
15	432	21 32 14.4	-43 32 56.5	872	227.133	211.0	77		--	25	0					
16	433	21 30 51.2	-43 32 19.6	866	229.884	210.9	112		--	0	1					
17	434	21 29 52.1	-43 32 9.7	857	231.600	210.7	107		--	-12	0	1	35.91			
18	435	21 29 5.0	-43 32 56.4	856	232.186	210.3	110	TC ERR DAY	--	-79	17					
19	436	21 27 48.2	-43 31 34.6	849	235.413	210.5	58		--	-16	0					
20	437	21 26 55.9	-43 31 22.9	845	236.982	210.3	133		--	-16	0	2	36.77			

DATA FOR ONE TEAM-SHOT

SAUDI ARABIA 1978
 SHOT NUMBER 8 TEAM 4
 SHOT POINT 2
 SHOT TIME: 44: 1: 0: 0.011

	LOC	LATITUDE	LONGITUDE	ELEV	DIST(KM)	AZIM	UNIT	NOTES	FOOTAGE	CHRON	TAPE GRADE	CALIBRATION			
												REC GRD	FIRST ARRIVAL	AMP VAL	CH /10
1	438	21 25 16.5	-43 30 41.2	842	240.239	210.2	139		--	-14	0				
2	439	21 24 21.6	-43 30 39.3	836	241.740	210.0	22		--	-12	0				
3	440	21 23 11.5	-43 30 4.9	839	244.110	210.0	100		--	-8	0				
4	441	21 21 42.0	-43 29 38.2	827	246.895	209.8	93		--	-10	0	2	37.36		
5	442	21 21 20.5	-43 30 1.1	830	247.151	209.6	17		--	13	0				
6	443	21 19 59.2	-43 29 34.0	829	249.724	209.5	60		--	-9	0	2	38.30		
7	444	21 18 58.5	-43 29 16.6	832	251.606	209.4	106		--	-6	0	2	38.44		
8	445	21 17 41.9	-43 28 58.1	834	253.934	209.2	40		--	3	0				
9	446	21 16 39.8	-43 28 20.1	836	256.141	209.2	48		--	13	0	2	38.54		
10	447	21 15 22.9	-43 27 43.0	840	258.738	209.2	131		--	-20	0				
11	448	21 13 52.6	-43 27 2.7	847	261.741	209.1	136		--	32	0				
12	449	21 12 40.2	-43 26 33.1	855	264.111	209.0	70		--	-10	0				
13	450	21 11 50.9	-43 26 16.1	857	265.682	209.0	124		--	6	0				
14	451	21 11 1.5	-43 25 48.8	856	267.398	208.9	129		--	11	0	2	39.82		
15	452	21 10 2.9	-43 25 15.7	858	269.442	208.9	35		--	-8	0				
16	453	21 9 6.8	-43 24 44.2	862	271.399	208.9	130	NO RUN??	--	--	1	2	40.30		
17	454	21 8 17.7	-43 24 18.5	862	273.084	208.9	18		--	2	0				
18	455	21 6 48.8	-43 23 25.7	872	276.225	208.9	113		--	5	0	2	41.87		
19	456	21 5 38.8	-43 22 49.7	871	278.617	208.9	85		--	13	0	2	41.63		
20	457	21 4 30.4	-43 22 17.3	875	280.920	208.8	51		--	385	0				

DATA FOR ONE TEAM-SHOT

SAUDI ARABIA 1978
SHOT NUMBER 8 TEAM 5
SHOT POINT 2
SHOT TIME: 44: 1: 0: 0.011

													CALIBRATION			
													REC	FIRST		
													GRD	ARRIVAL	AMP	100
															VAL	/10
LOC	LATITUDE			LONGITUDE			ELEV	DIST(KM)	AZIM	UNIT	NOTES	FOOTAGE	CHRON	TAPE		
														GRADE		
1	458	21	1	59.6	-43	20	27.0	903	286.532	209.0		--	--	20		
2	459	21	1	1.4	-43	19	37.6	889	288.793	209.0	UNIT??	--	--	0		
3	460	21	0	19.6	-43	18	54.4	891	290.522	209.1		--	--	20		
4	461	20	59	36.0	-43	18	14.6	894	292.255	209.2		--	--	20		
5	462	20	58	54.1	-43	17	36.8	896	293.914	209.3		--	--	20		
6	463	20	57	57.9	-43	16	43.8	918	296.172	209.4		--	--	20		
7	464	20	57	9.0	-43	16	13.8	905	297.912	209.4		--	--	20		
8	465	20	56	14.7	-43	15	37.3	908	299.888	209.4		--	--	20		
9	466	20	55	29.4	-43	15	7.7	911	301.527	209.4		--	--	20		
10	467	20	54	43.9	-43	14	35.7	914	303.203	209.4		--	--	20		
11	468	20	53	59.7	-43	14	2.9	917	304.857	209.4	56	--	-5	0		
12	469	20	52	59.6	-43	13	29.6	921	306.947	209.4	104	--	-36	0		
13	470	20	51	51.5	-43	12	49.8	926	309.342	209.4	12	--	-21	0	2	45.05
14	471	20	50	52.9	-43	12	9.8	931	311.485	209.4	69	--	23	0	2	44.94
15	472	20	49	50.2	-43	11	28.2	935	313.761	209.5	72	--	1	0		
16	473	20	48	42.3	-43	10	50.9	940	316.119	209.4	UNIT ??	--	--	0	2	45.88
17	474	20	47	36.8	-43	10	18.3	944	318.343	209.4	76	--	100	0	2	46.25
18	475	20	46	22.6	-43	9	40.7	949	320.874	209.4	145	--	-49	0	2	46.36
19	476	20	45	18.7	-43	9	7.8	953	323.059	209.4	88	--	-17	2		
20	477	20	44	24.2	-43	8	34.7	957	324.997	209.4	63	--	-47	0		

DATA FOR ONE TEAM-SHOT

SAUDI ARABIA 1978
 SHOT NUMBER 9 TEAM 1
 SHOT POINT 3
 SHOT TIME: 44: 1:15: 0.015

	LOC	LATITUDE	LONGITUDE	ELEV	DIST(KM)	AZIM	UNIT	NOTES	FOOTAGE	CHRON	TAPE GRADE	REC GRD	FIRST ARRIVAL	CALIBRATION AMP VAL CH	100 /10
1	378	22 24 12.5	-43 47 9.3	1069	55.328	23.6	143		--	33	0				
2	379	22 23 10.8	-43 46 19.2	1063	53.017	23.0	65		--	-16	0				
3	380	22 22 19.2	-43 45 49.5	1094	51.226	22.8	125		--	--	1				
4	381	22 21 21.6	-43 44 34.2	1053	48.775	21.3	90		--	-8	0				
5	382	22 20 48.3	-43 43 39.5	1043	47.263	20.0			--	--	20				
6	383	22 20 26.6	-43 43 22.5	1038	46.469	19.7	53		--	-11	14				
7	384	22 19 8.9	-43 42 42.3	1028	43.833	19.3	33		--	-12	0				
8	385	22 18 56.3	-43 42 1.5	1021	43.089	18.1	79		--	5	0				
9	386	22 18 23.2	-43 41 32.0	1017	41.864	17.4	10		--	58	0				
10	387	22 17 48.6	-43 40 41.8	1008	40.432	15.9	26		--	-3	0				
11	388	22 17 8.8	-43 39 45.7	998	38.833	14.1	28		--	-16	0				
12	389	22 16 9.6	-43 39 31.5	995	36.967	14.2	98		--	82	0				
13	390	22 15 16.5	-43 39 0.7	993	35.172	13.4	87		--	63	0				
14	391	22 14 23.4	-43 38 54.5	999	33.541	13.8	108		--	-8	0				
15	392	22 14 3.7	-43 38 48.0	996	32.909	13.7	115		--	15	0				
16	393	22 13 0.7	-43 38 41.0	983	30.981	14.2	3		--	-13	0				
17	394	22 11 42.6	-43 38 30.9	979	28.581	14.8	128		--	16	0				
18	395	22 10 32.1	-43 38 23.8	983	26.436	15.6	34		--	-10	0				
19	396	22 9 28.6	-43 38 12.6	980	24.472	16.1	66		--	-94	0				
20	397	22 8 22.9	-43 37 57.8	974	22.412	16.5	24		--	5	0				

DATA FOR ONE TEAM-SHOT

SAUDI ARABIA 1978
 SHOT NUMBER 9 TEAM 2
 SHOT POINT 3
 SHOT TIME: 44: 1:15: 0.015

	LOC	LATITUDE	LONGITUDE	ELEV	DIST(KM)	AZIM	UNIT	NOTES	FOOTAGE	CHRON	TAPE GRADE	CALIBRATION			
												REC GRD	FIRST ARRIVAL	AMP VAL	CH /10
1	398	22 7 17.3	-43 37 45.4	974	20.377	17.2	44		--	2	0				
2	399	22 6 15.5	-43 37 41.0	973	18.531	18.5	45		--	3	0				
3	400	22 4 51.4	-43 37 29.0	970	15.978	20.3	82		--	-17	0				
4	401	22 3 36.8	-43 37 19.3	967	13.737	22.6	78		--	5	0				
5	402	22 2 42.0	-43 37 11.7	962	12.105	24.7	137		--	28	0				
6	403	22 1 42.5	-43 36 55.7	957	10.257	26.6	142		--	22	1				
7	404	22 0 24.8	-43 36 43.0	956	7.993	32.0	132		--	-10	17/25				
8	405	21 59 29.0	-43 36 28.4	957	6.338	37.0	120		--	-14	0				
9	406	21 58 7.7	-43 35 54.5	964	3.828	47.9	101		--	-12	0				
10	407	21 57 39.5	-43 35 47.3	967	3.130	57.2	52		--	-16	0				
11	408	21 56 41.5	-43 35 6.9	956	1.475	93.4	105		--	0	4				
12	409	21 55 39.0	-43 34 49.4	955	2.232	154.2	32		--	-8	0	0	0.20		
13	410	21 55 3.8	-43 34 41.6	957	3.180	166.4	38		--	--	0	0	0.45		
14	411	21 54 5.3	-43 34 18.6	948	4.890	179.0	55		--	8	0	0	0.75		
15	412	21 53 8.6	-43 33 39.4	950	6.715	188.9	74		--	-16	0	2	1.86		
16	413	21 51 56.6	-43 33 17.3	936	9.007	190.7	92		--	-21	0				
17	414	21 51 5.5	-43 32 51.7	938	10.695	193.0	64		--	58	0	0	1.66		
18	415	21 50 3.9	-43 32 23.3	928	12.729	194.7	23		--	82	0				
19	416	21 49 0.5	-43 31 56.3	925	14.814	195.7	25		--	40	0				
20	417	21 47 40.5	-43 30 55.1	931	17.688	199.0	62		--	-8	1				

DATA FOR ONE TEAM-SHOT

SAUDI ARABIA 1978
SHOT NUMBER 9 TEAM 3
SHOT POINT 3
SHOT TIME: 44: 1:15: 0.015

	LOC	LATITUDE	LONGITUDE	ELEV	DIST(KM)	AZIM	UNIT	NOTES	FOOTAGE	CHRON	TAPE GRADE	REC GRD	FIRST ARRIVAL	CALIBRATION		
														AMP	VAL	CH 100 /10
1	418	21 46 12.6	-43 30 35.2	922	20.435	198.0	68		--	23	0	0	3.30			
2	419	21 44 58.6	-43 31 38.7	914	22.167	191.7	83		--	--	17					
3	420	21 43 45.1	-43 31 41.7	911	24.370	190.4	75		--	-8	0	0	4.00			
4	421	21 42 29.5	-43 32 18.7	908	26.502	187.3	49		--	-11	0	0	4.37			
5	422	21 41 26.9	-43 32 45.0	907	28.335	185.3	30		--	-16	0	0	4.62			
6	423	21 40 43.1	-43 33 10.4	905	29.622	183.6	103		--	-14	0	0	4.83			
7	424	21 39 46.8	-43 33 41.2	896	31.311	181.8	31		--	-2	0	1	5.11			
8	425	21 38 38.4	-43 34 17.1	906	33.399	179.9	122		--	15	0	2	5.45			
9	426	21 37 43.4	-43 34 30.6	902	35.092	179.3	119		--	-3	0	2	5.25			
10	427	21 36 39.7	-43 34 42.5	904	37.057	178.8	96		--	-14	0	0	6.02			
11	428	21 35 52.5	-43 34 49.7	897	38.512	178.5	19		--	46	0					
12	429	21 35 7.5	-43 34 20.9	889	39.883	179.8	39		--	--	1					
13	430	21 34 13.8	-43 33 47.5	882	41.542	181.1	121		--	32	0					
14	431	21 33 24.9	-43 33 23.1	876	43.065	182.0	89		--	10	0	0	6.98			
15	432	21 32 14.4	-43 32 56.5	872	45.267	182.9	77		--	25	0					
16	433	21 30 51.2	-43 32 19.6	866	47.885	184.0	112		--	0	1					
17	434	21 29 52.1	-43 32 9.7	857	49.717	184.2	107		--	-12	0	0	7.72			
18	435	21 29 5.0	-43 32 56.4	856	51.085	182.6	110	TC ERR DAY	--	-79	17					
19	436	21 27 48.2	-43 31 34.6	849	53.594	185.0	58		--	-16	0					
20	437	21 26 55.9	-43 31 22.9	845	55.227	185.2	133		--	-16	0					

DATA FOR ONE TEAM-SHOT

SAUDI ARABIA 1978
SHOT NUMBER 9 TEAM 4
SHOT POINT 3
SHOT TIME: 44: 1:15: 0.015

	LOC	LATITUDE	LONGITUDE	ELEV	DIST(KM)	AZIM	UNIT	NOTES	FOOTAGE	CHRON	TAPE GRADE	CALIBRATION			
												REC GRD	FIRST ARRIVAL	AMP	VAL CH 100 /10
1	438	21 25 16.5	-43 30 41.2	842	58.386	186.1	139		--	-14	0	0	9.40		
2	439	21 24 21.6	-43 30 39.3	836	60.071	185.9	22		--	-12	0				
3	440	21 23 11.5	-43 30 4.9	839	62.323	186.6	100		--	-8	0				
4	441	21 21 42.0	-43 29 38.2	827	65.149	187.0	93		---	-10	0	1	10.40		
5	442	21 21 20.5	-43 30 1.1	830	65.727	186.4	17		--	13	0	2	10.30		
6	443	21 19 59.2	-43 29 34.0	829	68.302	186.8	60		--	-9	0				
7	444	21 18 58.5	-43 29 16.6	832	70.216	187.0	106		---	-6	0	0	11.23		
8	445	21 17 41.9	-43 28 58.1	834	72.619	187.2	40		---	3	0	2	11.70		
9	446	21 16 39.8	-43 28 20.1	836	74.654	187.9	48		---	13	0	0	11.69		
10	447	21 15 22.9	-43 27 43.0	840	77.149	188.4	131		--	-20	0	0	12.01		
11	448	21 13 52.6	-43 27 2.7	847	80.398	188.9	136		--	32	0	2	13.43		
12	449	21 12 40.2	-43 26 33.1	855	82.739	189.3	70		---	-10	0				
13	450	21 11 50.9	-43 26 16.1	857	84.321	189.5	124		---	6	0	2	14.05		
14	451	21 11 1.5	-43 25 48.8	856	85.955	189.8	129		--	11	0	0	13.86		
15	452	21 10 2.9	-43 25 15.7	858	87.902	190.2	35		--	-8	0	1	14.43		
16	453	21 9 6.8	-43 24 44.2	862	89.770	190.6	130		--	--	1				
17	454	21 8 17.7	-43 24 18.5	862	91.398	190.9	18		---	2	0				
18	455	21 6 48.8	-43 23 25.7	872	94.386	191.5	113		---	5	0				
19	456	21 5 38.8	-43 22 49.7	871	96.709	191.8	85		---	13	0				
20	457	21 4 30.4	-43 22 17.3	875	98.969	192.1	51		--	385	0	0	15.81		

DATA FOR ONE TEAM-SHOT

SAUDI ARABIA 1978
 SHOT NUMBER 9 TEAM 5
 SHOT POINT 3
 SHOT TIME: 44: 1:15: 0.015

	LOC	LATITUDE	LONGITUDE	ELEV	DIST(KM)	AZIM	UNIT	NOTES	FOOTAGE	CHRON	TAPE GRADE	REC GRD	FIRST ARRIVAL	CALIBRATION AMP VAL CH	100 /10
1	458	21 1 59.6	-43 20 27.0	903	104.209	193.3			--	--	20				
2	459	21 1 1.4	-43 19 37.6	889	106.289	193.8		UNIT ??	--	--	0				
3	460	21 0 19.6	-43 18 54.4	891	107.842	194.3			--	--	20				
4	461	20 59 36.0	-43 18 14.6	894	109.431	194.7			--	--	20				
5	462	20 58 54.1	-43 17 36.8	896	110.960	195.1			--	--	20				
6	463	20 57 57.9	-43 16 43.8	918	113.036	195.6			--	--	20				
7	464	20 57 9.0	-43 16 13.8	905	114.722	195.8			--	--	20				
8	465	20 56 14.7	-43 15 37.3	908	116.621	196.1			--	--	20				
9	466	20 55 29.4	-43 15 7.7	911	118.203	196.3			--	--	20				
10	467	20 54 43.9	-43 14 35.7	914	119.810	196.5			--	--	20				
11	468	20 53 59.7	-43 14 2.9	917	121.388	196.8	56		--	-5	0				
12	469	20 52 59.6	-43 13 29.6	921	123.444	197.0	104		--	-36	0	2	19.64		
13	470	20 51 51.5	-43 12 49.8	926	125.789	197.2	12		--	-21	0	1	19.95		
14	471	20 50 52.9	-43 12 9.8	931	127.859	197.4	69		--	23	0	1	20.40		
15	472	20 49 50.2	-43 11 28.2	935	130.066	197.7	72		--	1	0				
16	473	20 48 42.3	-43 10 50.9	940	132.393	197.9		UNIT ??	--	--	0				
17	474	20 47 36.8	-43 10 18.3	944	134.604	198.0	76		--	100	0	1	21.50		
18	475	20 46 22.6	-43 9 40.7	949	137.119	198.1	145		--	-49	0	2	21.52		
19	476	20 45 18.7	-43 9 7.8	953	139.288	198.2	88		--	-17	1				
20	477	20 44 24.2	-43 8 34.7	957	141.187	198.4	63		--	-47	0	2	22.20		

DATA FOR ONE TEAM-SHOT

SAUDI ARABIA 1978
SHOT NUMBER 10 TEAM 1
SHOT POINT 4
SHOT TIME: 44: 1:30: 0.015

													CALIBRATION			
	LOC	LATITUDE	LONGITUDE	ELEV	DIST(KM)	AZIM	UNIT	NOTES	FOOTAGE	CHRON	TAPE GRADE	REC GRD	FIRST ARRIVAL	AMP	VAL	CH 100 /10
1	378	22 24 12.5	-43 47 9.3	1069	283.150	24.7	143		--	33	0					
2	379	22 23 10.8	-43 46 19.2	1063	280.821	24.6	65		---	-16	0	2	41.64			
3	380	22 22 19.2	-43 45 49.5	1094	279.020	24.5	125		--	--	1					
4	381	22 21 21.6	-43 44 34.2	1053	276.512	24.3	90		--	-8	0					
5	382	22 20 48.3	-43 43 39.5	1043	274.931	24.1			--	--	20					
6	383	22 20 26.6	-43 43 22.5	1038	274.120	24.0	53		--	-11	14					
7	384	22 19 8.9	-43 42 42.3	1028	271.461	24.0	33		---	-12	0					
8	385	22 18 56.3	-43 42 1.5	1021	270.631	23.8	79		--	5	0					
9	386	22 18 23.2	-43 41 32.0	1017	269.357	23.7	10		--	58	0					
10	387	22 17 48.6	-43 40 41.8	1008	267.801	23.6	26		--	-3	0					
11	388	22 17 8.8	-43 39 45.7	998	266.033	23.3	28		---	-16	0					
12	389	22 16 9.6	-43 39 31.5	995	264.194	23.4	98		---	82	0					
13	390	22 15 16.5	-43 39 0.7	993	262.340	23.4	87		---	63	0	2	39.40			
14	391	22 14 23.4	-43 38 54.5	999	260.763	23.5	108		---	-8	0	2	39.28			
15	392	22 14 3.7	-43 38 48.0	996	260.133	23.5	115		--	15	0	2	39.00			
16	393	22 13 0.7	-43 38 41.0	983	258.271	23.6	3		--	-13	0					
17	394	22 11 42.6	-43 38 30.9	979	255.944	23.8	128		--	16	0					
18	395	22 10 32.1	-43 38 23.8	983	253.872	23.9	34		--	-10	0					
19	396	22 9 28.6	-43 38 12.6	980	251.952	24.1	66		--	-94	0					
20	397	22 8 22.9	-43 37 57.8	974	249.926	24.2	24		---	5	0					

DATA FOR ONE TEAM-SHOT

SAUDI ARABIA 1978
 SHOT NUMBER 10 TEAM 2
 SHOT POINT 4
 SHOT TIME: 44: 1:30: 0.015

	LOC	LATITUDE	LONGITUDE	ELEV	DIST(KM)	AZIM	UNIT	NOTES	FOOTAGE	CHRON	TAPE GRADE	REC GRD	FIRST ARRIVAL	CALIBRATION		
														AMP	VAL	CH
1	398	22 7 17.3	-43 37 45.4	974	247.933	24.3	44		--	2	0	2	37.52			
2	399	22 6 15.5	-43 37 41.0	973	246.145	24.4	45		--	3	0					
3	400	22 4 51.4	-43 37 29.0	970	243.640	24.6	82		--	-17	0					
4	401	22 3 36.8	-43 37 19.3	967	241.429	24.8	78		--	5	0					
5	402	22 2 42.0	-43 37 11.7	962	239.802	24.9	137		--	28	0					
6	403	22 1 42.5	-43 36 55.7	957	237.943	25.0	142		--	22	1					
7	404	22 0 24.8	-43 36 43.0	956	235.617	25.2	132		--	-10	17/25					
8	405	21 59 29.0	-43 36 28.4	957	233.879	25.2	120		--	-14	0	2	35.50			
9	406	21 58 7.7	-43 35 54.5	964	231.196	25.3	101		--	-12	0					
10	407	21 57 39.5	-43 35 47.3	967	230.318	25.3	52		--	-16	0	2	36.81			
11	408	21 56 41.5	-43 35 6.9	956	228.204	25.3	105		--	0	4					
12	409	21 55 39.0	-43 34 49.4	955	226.245	25.4	32		--	-8	0	1	35.47			
13	410	21 55 3.8	-43 34 41.6	957	225.169	25.4	38		--	--	0					
14	411	21 54 5.3	-43 34 18.6	948	223.255	25.5	55		--	8	0					
15	412	21 53 8.6	-43 33 39.4	950	221.189	25.4	74		--	-16	0					
16	413	21 51 56.6	-43 33 17.3	936	218.908	25.5	92		--	-21	0	2	34.02			
17	414	21 51 5.5	-43 32 51.7	938	217.169	25.5	64		--	58	0	2	34.14			
18	415	21 50 3.9	-43 32 23.3	928	215.101	25.5	23		--	82	0					
19	416	21 49 0.5	-43 31 56.3	925	213.001	25.6	25		--	40	0	2	34.16			
20	417	21 47 40.5	-43 30 55.1	931	210.014	25.4	62		--	-8	1					

DATA FOR ONE TEAM-SHOT

SAUDI ARABIA 1978
 SHOT NUMBER 10 TEAM 3
 SHOT POINT 4
 SHOT TIME: 44: 1:30: 0.015

	LOC	LATITUDE	LONGITUDE	ELEV	DIST(KM)	AZIM	UNIT	NOTES	FOOTAGE	CHRON	TAPE GRADE	REC GRD	FIRST ARRIVAL	CALIBRATION		
														AMP	VAL	CH
1	418	21 46 12.6	-43 30 35.2	922	207.317	25.6	68		--	23	0	0	32.50			
2	419	21 44 58.6	-43 31 38.7	914	206.063	26.3	83		--	--	17					
3	420	21 43 45.1	-43 31 41.7	911	204.069	26.6	75		--	-8	0	0	32.70			
4	421	21 42 29.5	-43 32 18.7	908	202.472	27.2	49		--	-11	0	0	32.33			
5	422	21 41 26.9	-43 32 45.0	907	201.103	27.7	30		--	-16	0					
6	423	21 40 43.1	-43 33 10.4	905	200.247	28.0	103		--	-14	0					
7	424	21 39 46.8	-43 33 41.2	896	199.134	28.5	31		--	-2	0	2	32.10			
8	425	21 38 38.4	-43 34 17.1	906	197.779	29.1	122		--	15	0	1	32.05			
9	426	21 37 43.4	-43 34 30.6	902	196.487	29.4	119		--	-3	0	1	32.00			
10	427	21 36 39.7	-43 34 42.5	904	194.945	29.8	96		--	-14	0					
11	428	21 35 52.5	-43 34 49.7	897	193.786	30.0	19		--	46	0	2	30.70			
12	429	21 35 7.5	-43 34 20.9	889	192.168	30.0	39		--	--	1					
13	430	21 34 13.8	-43 33 47.5	882	190.253	30.0	121		--	32	0					
14	431	21 33 24.9	-43 33 23.1	876	188.594	30.1	89		--	10	0	0	30.72			
15	432	21 32 14.4	-43 32 56.5	872	186.325	30.2	77		--	25	0					
16	433	21 30 51.2	-43 32 19.6	866	183.571	30.3	112		--	0	1					
17	434	21 29 52.1	-43 32 9.7	857	181.855	30.5	107		--	-12	0	0	29.40			
18	435	21 29 5.0	-43 32 56.4	856	181.292	31.1	110	TC ERR DAY	--	-79	17					
19	436	21 27 48.2	-43 31 34.6	849	178.051	30.9	58		--	-16	0					
20	437	21 26 55.9	-43 31 22.9	845	176.491	31.1	133		--	-16	0					

DATA FOR ONE TEAM-SHOT

SAUDI ARABIA 1978
 SHOT NUMBER 10 TEAM 4
 SHOT POINT 4
 SHOT TIME: 44: 1:30: 0.015

	LOC	LATITUDE	LONGITUDE	ELEV	DIST(KM)	AZIM	UNIT	NOTES	FOOTAGE	CHRON	TAPE GRADE	REC GRD	FIRST ARRIVAL	CALIBRATION		
														AMP	VAL	CH
1	438	21 25 16.5	-43 30 41.2	842	173.245	31.2	139		--	-14	0	1	28.62			
2	439	21 24 21.6	-43 30 39.3	836	171.767	31.5	22		--	-12	0					
3	440	21 23 11.5	-43 30 4.9	839	169.406	31.6	100		--	-8	0					
4	441	21 21 42.0	-43 29 38.2	827	166.649	31.9	93		--	-10	0					
5	442	21 21 20.5	-43 30 1.1	830	166.436	32.2	17		--	13	0	0	26.90			
6	443	21 19 59.2	-43 29 34.0	829	163.897	32.4	60		--	-9	0					
7	444	21 18 58.5	-43 29 16.6	832	162.047	32.6	106		--	-6	0	0	26.43			
8	445	21 17 41.9	-43 28 58.1	834	159.770	32.9	40		--	3	0	0	26.35			
9	446	21 16 39.8	-43 28 20.1	836	157.566	33.0	48		--	13	0	0	25.64			
10	447	21 15 22.9	-43 27 43.0	840	154.991	33.1	131		--	-20	0	0	25.25			
11	448	21 13 52.6	-43 27 2.7	847	152.023	33.3	136		--	32	0	0	25.20			
12	449	21 12 40.2	-43 26 33.1	855	149.688	33.5	70		--	-10	0	0	24.30			
13	450	21 11 50.9	-43 26 16.1	857	148.149	33.7	124		--	6	0					
14	451	21 11 1.5	-43 25 48.8	856	146.443	33.8	129		--	11	0	0	23.58			
15	452	21 10 2.9	-43 25 15.7	858	144.410	33.8	35		--	-8	0	0	23.20			
16	453	21 9 6.8	-43 24 44.2	862	142.465	33.9	130		--	--	1					
17	454	21 8 17.7	-43 24 18.5	862	140.794	34.0	18		--	2	0	0	22.70			
18	455	21 6 48.8	-43 23 25.7	872	137.665	34.1	113		--	5	0					
19	456	21 5 38.8	-43 22 49.7	871	135.296	34.3	85		--	13	0					
20	457	21 4 30.4	-43 22 17.3	875	133.025	34.5	51		--	385	0	0	21.22			

DATA FOR ONE TEAM-SHOT

SAUDI ARABIA 1978
 SHOT NUMBER 10 TEAM 5
 SHOT POINT 4
 SHOT TIME: 44: 1:30: 0.015

	LOC	LATITUDE	LONGITUDE	ELEV	DIST(KM)	AZIM	UNIT	NOTES	FOOTAGE	CHRON	TAPE GRADE	CALIBRATION			
												REC GRD	FIRST ARRIVAL	AMP VAL	CH 100 /10
1	458	21 1 59.6	-43 20 27.0	903	127.384	34.5			--	--	20				
2	459	21 1 1.4	-43 19 37.6	889	125.095	34.4		UNIT ??	--	--	0				
3	460	21 0 19.6	-43 18 54.4	891	123.328	34.2			--	--	20				
4	461	20 59 36.0	-43 18 14.6	894	121.569	34.2			--	--	20				
5	462	20 58 54.1	-43 17 36.8	896	119.887	34.1			--	--	20				
6	463	20 57 57.9	-43 16 43.8	918	117.594	33.9			--	--	20				
7	464	20 57 9.0	-43 16 13.8	905	115.858	34.0			--	--	20				
8	465	20 56 14.7	-43 15 37.3	908	113.880	34.0			--	--	20				
9	466	20 55 29.4	-43 15 7.7	911	112.242	34.0			--	--	20				
10	467	20 54 43.9	-43 14 35.7	914	110.561	34.1			--	--	20				
11	468	20 53 59.7	-43 14 2.9	917	108.899	34.0	56		--	-5	0				
12	469	20 52 59.6	-43 13 29.6	921	106.822	34.2	104		--	-36	0	0	17.38		
13	470	20 51 51.5	-43 12 49.8	926	104.438	34.3	12		--	-21	0	0	17.00		
14	471	20 50 52.9	-43 12 9.8	931	102.292	34.3	69		--	23	0	0	16.58		
15	472	20 49 50.2	-43 11 28.2	935	100.015	34.4	72		--	1	0				
16	473	20 48 42.3	-43 10 50.9	940	97.675	34.6		UNIT ??	--	--	0				
17	474	20 47 36.8	-43 10 18.3	944	95.477	34.8	76		--	100	0	0	15.44		
18	475	20 46 22.6	-43 9 40.7	949	92.975	35.0	145		--	-49	0	0	14.99		
19	476	20 45 18.7	-43 9 7.8	953	90.816	35.2	88		--	-17	1				
20	477	20 44 24.2	-43 8 34.7	957	88.887	35.4	63		--	-47	0	0	14.24		

DATA FOR ONE TEAM-SHOT

SAUDI ARABIA 1978
SHOT NUMBER 11 TEAM 1
SHOT POINT 1
SHOT TIME: 47: 1: 0: 0.012

	LOC	LATITUDE	LONGITUDE	ELEV	DIST(KM)	AZIM	UNIT	NOTES	FOOTAGE	CHRON	TAPE GRADE	REC GRD	FIRST ARRIVAL	CALIBRATION		
														AMP	VAL	100 CH /10
1	478	20 43 12.5	-43 7 59.6	958	468.987	212.8	115		--	18	0	4				
2	479	20 42 21.2	-43 7 30.4	966	470.777	212.8	87		--	68	0	4				
3	480	20 41 25.8	-43 6 52.2	973	472.815	212.8	125		--	-258	0	4				
4	481	20 40 32.6	-43 6 17.6	981	474.738	212.8	66		--	-86	0	4				
5	482	20 39 40.9	-43 5 43.9	992	476.605	212.8	24		--	7	0	4				
6	483	20 38 36.7	-43 5 16.7	994	478.704	212.8	28		--	-18	0	4				
7	484	20 37 21.2	-43 4 49.5	993	481.098	212.7	34		--	-14	0	4				
8	485	20 36 24.3	-43 4 29.1	994	482.901	212.6	143		--	32	0	4				
9	486	20 35 11.3	-43 3 50.0	998	485.411	212.6	108		--	-11	0	4				
10	487	20 33 34.0	-43 3 1.1	1015	488.710	212.6	98		--	--	0	4				
11	488	20 32 38.7	-43 2 29.7	1012	490.638	212.6	3		--	2	0	4				
12	489	20 31 19.5	-43 1 44.8	1022	493.400	212.5	79		--	9	0	4				
13	490	20 30 7.3	-43 1 2.5	1010	495.943	212.5	53		--	-13	0	4				
14	491	20 29 5.3	-43 0 43.7	1011	497.855	212.4	65		--	-24	0	4				
15	492	20 27 59.5	-43 0 24.7	1025	499.874	212.4	33		--	-18	0	4				
16	493	20 27 1.5	-42 59 55.8	1035	501.836	212.3	26		--	-3	29	4				
17	494	20 25 55.3	-42 59 20.8	1057	504.107	212.3	10		--	39	1	4				
18	495	20 24 47.2	-42 59 1.2	1043	506.197	212.2	128		--	21	0	4				
19	496	20 23 40.3	-42 58 34.4	1047	508.361	212.2			--	--	20	4				
20	497	20 22 50.7	-42 58 10.1	1053	510.035	212.2	90		--	-19	0	4				

DATA FOR ONE TEAM-SHOT

SAUDI ARABIA 1978
SHOT NUMBER 11 TEAM 2
SHOT POINT 1
SHOT TIME: 47: 11 0: 0.012

	LOC	LATITUDE	LONGITUDE	ELEV	DIST(KM)	AZIM	UNIT	NOTES	FOOTAGE	CHRON	TAPE GRADE	CALIBRATION			
												REC GRD	FIRST ARRIVAL	AMP VAL	100 CH /10
1	498	20 21 38.7	-42 57 25.7	1059	512.604	212.2	44		--	5	1	4			
2	499	20 20 37.8	-42 56 51.5	1069	514.725	212.1	55		--	13	0	4			
3	500	20 19 35.5	-42 56 14.2	1077	516.930	212.1	52		--	-17	0	4			
4	501	20 18 26.5	-42 55 42.4	1089	519.230	212.1	38		--	21	0	4			
5	502	20 17 1.8	-42 54 50.9	1097	522.238	212.1	92		--	-18	0	4			
6	503	20 15 42.2	-42 54 8.4	1114	524.979	212.1	142		--	27	0	4			
7	504	20 14 18.6	-42 53 24.6	1095	527.842	212.0	23		--	96	0	4			
8	505	20 13 15.4	-42 52 6.5	1096	530.691	212.1	105		--	-11	0	4			
9	506	20 12 40.8	-42 50 58.8	1090	532.628	212.2	120		--	-15	0	4			
10	507	20 12 5.0	-42 49 50.5	1098	534.606	212.4	137		--	35	0	4			
11	508	20 11 32.2	-42 48 49.1	1096	536.404	212.5	64		--	92	0	4			
12	509	20 10 49.9	-42 47 31.1	1115	538.708	212.6	82		--	-18	0	4			
13	510	20 10 11.3	-42 46 19.7	1119	540.816	212.7	25		--	46	0	4			
14	511	20 9 42.7	-42 45 13.0	1113	542.590	212.8	62		--	-9	0	4			
15	512	20 9 4.9	-42 44 16.7	1120	544.447	212.9	101		--	-12	0	4			
16	513	20 8 20.9	-42 43 21.4	1131	546.452	213.0	78		--	15	0	4			
17	514	20 7 46.9	-42 42 17.5	1134	548.331	213.1	132		--	-9	0	4			
18	515	20 7 7.6	-42 41 28.6	1137	550.116	213.1	74		--	-11	0	4			
19	516	20 6 25.5	-42 41 4.1	1138	551.594	213.1	32		--	-4	0	4			
20	517	20 4 27.5	-42 40 4.5	1150	555.599	213.1	45		--	8	2	4			

DATA FOR ONE TEAM-SHOT

SAUDI ARABIA 1978
SHOT NUMBER 11 TEAM 3
SHOT POINT 1
SHOT TIME: 47: 1: 0: 0.012

	LOC	LATITUDE	LONGITUDE	ELEV	DIST(KM)	AZIM	UNIT	NOTES	FOOTAGE	CHRON	TAPE GRADE	CALIBRATION			
												REC GRD	FIRST ARRIVAL	AMP	VAL CH 100 /10
1	518	20 2 53.8	-42 39 32.5	1152	558.540	213.0	110		--	-3	0	4			
2	519	20 1 3.4	-42 40 1.2	1181	560.984	212.7	122		--	5	0	4			
3	520	19 59 56.3	-42 40 3.5	1170	562.706	212.6	133		--	-18	6	4			
4	521	19 59 1.4	-42 39 54.7	1170	564.280	212.5	119		--	-7	0	4			
5	522	19 57 58.5	-42 39 54.4	1186	565.938	212.4	96		--	-15	0	4			
6	523	19 56 38.7	-42 39 59.6	1196	567.956	212.3	30		--	-18	0	4			
7	524	19 55 40.9	-42 39 55.4	1216	569.541	212.2	107		--	-15	28	4			
8	525	19 54 38.3	-42 39 46.9	1226	571.320	212.1	103		--	-17	1	4			
9	526	19 54 0.7	-42 39 47.1	1230	572.306	212.1	89		--	11	17	4			
10	527	19 52 48.7	-42 39 53.9	1238	574.105	211.9	39		--	-11	0	4			
11	528	19 51 35.7	-42 39 56.4	1241	575.996	211.8	121		--	28	6	4			
12	529	19 50 11.9	-42 39 54.6	1253	578.242	211.7	75		--	-8	1	4			
13	530	19 49 10.0	-42 39 45.2	1252	580.022	211.6	68		--	32	0	4			
14	531	19 48 13.6	-42 39 33.7	1260	581.687	211.5	83		--	-30	6	4			
15	532	19 47 3.3	-42 39 21.6	1263	583.733	211.5	31		--	0	0	4			
16	533	19 45 58.3	-42 39 12.1	1249	585.599	211.4	49		--	-11	0	4			
17	534	19 44 6.8	-42 38 49.0	1268	588.904	211.3	77		--	0	1	4			
18	535	19 43 5.7	-42 38 37.7	1265	590.696	211.2	112		--	-4	1	4			
19	536	19 41 46.7	-42 38 34.8	1287	592.842	211.1	58		--	-17	6	4			
20	537	19 40 35.7	-42 38 45.0	1306	594.586	211.0	19		--	47	0	4			

DATA FOR ONE TEAM-SHOT

SAUDI ARABIA 1978
 SHOT NUMBER 11 TEAM 4
 SHOT POINT 1
 SHOT TIME: 47: 1: 0: 0.012

	LOC	LATITUDE	LONGITUDE	ELEV	DIST(KM)	AZIM	UNIT	NOTES	FOOTAGE	CHRON	TAPE GRADE	REC GRD	FIRST ARRIVAL	CALIBRATION AMP VAL CH	100 /10
1	538	19 39 38.0	-42 38 27.0	1332	596.391	210.9	22		---	-56	0	4			
2	539	19 38 56.2	-42 38 23.2	1331	597.562	210.9	60		--	-39	0	4			
3	540	19 38 10.3	-42 38 43.6	1355	598.491	210.7	93		--	-48	0	4			
4	541	19 37 9.8	-42 38 54.1	1366	599.955	210.6	106		--	-29	0	4			
5	542	19 36 41.5	-42 38 38.5	1365	600.939	210.6			--	--	20	4			
6	543	19 36 10.9	-42 38 35.4	1384	601.803	210.6	70		--	--	1	4			
7	544	19 35 16.2	-42 38 27.1	1393	603.387	210.5	131		--	-87	0	4			
8	545	19 34 59.0	-42 38 58.9	1411	603.390	210.4	136		--	148	0	4			
9	546	19 33 59.8	-42 39 24.8	1412	604.605	210.3	48		--	41	6	4			
10	547	19 33 30.8	-42 39 32.1	1434	605.282	210.2	85		--	61	1	4			
11	548	19 32 47.1	-42 40 12.5	1423	605.877	210.1	113		--	23	0	4			
12	549	19 32 12.1	-42 40 46.2	1434	606.341	209.9	51		--	26	0	4			
13	550	19 31 8.0	-42 40 50.6	1443	608.005	209.8	129		--	42	0	4			
14	551	19 30 26.8	-42 40 25.1	1470	609.478	209.8	139		--	-35	0	4			
15	552	19 29 46.0	-42 39 40.8	1483	611.209	209.9	124		--	27	0	4			
16	553	19 28 28.3	-42 39 31.5	1514	613.435	209.8	35		--	-55	17	4			
17	554	19 27 21.2	-42 39 48.7	1530	615.003	209.7	17		--	56	3/16	4			
18	555	19 26 38.0	-42 39 56.8		616.057	209.6	100		--	-34	0	4			
19	556	19 25 36.7	-42 40 25.4		617.314	209.4	40		--	12	0	4			
20	557	19 24 25.2	-42 40 29.8		619.190	209.3	18		--	11	0	4			

DATA FOR ONE TEAM-SHOT

SAUDI ARABIA 1978
SHOT NUMBER 11 TEAM 5
SHOT POINT 1
SHOT TIME: 47: 1: 0: 0.012

	LOC	LATITUDE	LONGITUDE	ELEV	DIST(KM)	AZIM	UNIT	NOTES	FOOTAGE	CHRON	TAPE GRADE	REC GRD	FIRST ARRIVAL	CALIBRATION AMP VAL CH	100 /10
1	558	19 23 44.4	-42 41 6.8	1574	619.781	209.2	97		--	-129	0	4			
2	559	19 22 20.4	-42 41 18.3	1583	621.904	209.0	56		--	9	3/24	4			
3	560	19 21 4.4	-42 41 35.5	1557	623.732	208.9	36		--	61	1	4			
4	561	19 20 1.7	-42 42 47.9	1537	624.447	208.6	88		--	-64	2	4			
5	562	19 18 5.7	-42 42 35.5	1568	627.784	208.5	15		--	-309	2	4			
6	563	19 16 48.1	-42 42 49.5	1559	629.713	208.4	71		--	33	0	4			
7	564	19 15 36.4	-42 43 4.6	1569	631.471	208.2	118		--	82	29	4			
8	565	19 14 20.8	-42 43 42.9	1546	633.026	208.1	14		--	-48	0	4			
9	566	19 13 25.6	-42 44 37.3	1567	633.815	207.9	63		--	-90	0	4			
10	567	19 11 56.7	-42 44 21.4	1594	636.469	207.8	73		--	-68	0	4			
11	568	19 10 41.9	-42 43 43.8	1625	639.025	207.8	104		--	-68	0	4			
12	569	19 9 47.8	-42 43 25.4	1641	640.757	207.8	146		--	90	0	4			
13	570	19 9 1.3	-42 42 46.7	1689	642.549	207.8	94		--	52	0	4			
14	571	19 8 18.5	-42 43 31.5	1644	643.131	207.6	76		--	--	29	4			
15	572	19 7 29.4	-42 43 18.9	1636	644.651	207.6	99		--	-7	0	4			
16	573	19 5 45.5	-42 43 22.9	1665	647.461	207.5	145		--	-49	0	4			
17	574	19 4 32.9	-42 43 32.8	1663	649.334	207.3	43		--	--	2	4			
18	575	19 3 3.8	-42 43 57.1	1657	651.477	207.2	72		--	-3	0	4			
19	576	19 1 40.1	-42 44 14.4	1703	653.566	207.0	12		--	-44	0	4			
20	577	19 0 51.7	-42 44 31.6	1698	654.682	206.9	69		--	6	0	4			

DATA FOR ONE TEAM-SHOT

SAUDI ARABIA 1978
 SHOT NUMBER 12 TEAM 1
 SHOT POINT 3
 SHOT TIME: 47:11:15: 0.010

	LOC	LATITUDE	LONGITUDE	ELEV	DIST(KM)	AZIM	UNIT	NOTES	FOOTAGE	CHRON	TAPE GRADE	REC GRD	FIRST ARRIVAL	CALIBRATION		
														AMP	VAL	CH
1	478	20 43 12.5	-43 7 59.6	958	143.608	198.5	115		--	18	0	0	22.50			
2	479	20 42 21.2	-43 7 30.4	966	145.377	198.6	87		--	68	0	0	22.70			
3	480	20 41 25.8	-43 6 52.2	973	147.352	198.8	125		--	-258	0	0	22.88			
4	481	20 40 32.6	-43 6 17.6	981	149.229	199.0	66		--	-86	0	0	23.70			
5	482	20 39 40.9	-43 5 43.9	992	151.053	199.1	24		--	7	0	0	24.47			
6	483	20 38 36.7	-43 5 16.7	994	153.185	199.2	28		--	-18	0	0	24.53			
7	484	20 37 21.2	-43 4 49.5	993	155.647	199.2	34		--	-14	0	0	24.80			
8	485	20 36 24.3	-43 4 29.1	994	157.500	199.2	143		--	32	0	1	25.07			
9	486	20 35 11.3	-43 3 50.0	998	160.000	199.3	108		--	-11	0	1	25.67			
10	487	20 33 34.0	-43 3 1.1	1015	163.303	199.4	98		--	--	0	0	26.35			
11	488	20 32 38.7	-43 2 29.7	1012	165.214	199.5	3		--	2	0	0	26.97			
12	489	20 31 19.5	-43 1 44.8	1022	167.951	199.6	79		--	9	0	0	27.36			
13	490	20 30 7.3	-43 1 2.5	1010	170.464	199.8	53		--	-13	0	0	27.85			
14	491	20 29 5.3	-43 0 43.7	1011	172.449	199.7	65		--	-24	0	0	27.82			
15	492	20 27 59.5	-43 0 24.7	1025	174.551	199.7	33		--	-18	0	0	28.20			
16	493	20 27 1.5	-42 59 55.8	1035	176.516	199.7	26		--	-3	29	6				
17	494	20 25 55.3	-42 59 20.8	1057	178.781	199.8	10		--	39	1	6				
18	495	20 24 47.2	-42 59 1.2	1043	180.955	199.8	128		--	21	0	0	29.22			
19	496	20 23 40.3	-42 58 34.4	1047	183.160	199.8			--	--	20	6				
20	497	20 22 50.7	-42 58 10.1	1053	184.839	199.8	90		--	-19	0	0	29.42			

DATA FOR ONE TEAM-SHOT

SAUDI ARABIA 1978
SHOT NUMBER 12 TEAM 2
SHOT POINT 3
SHOT TIME: 47: 1:15: 0.010

	LOC	LATITUDE	LONGITUDE	ELEV	DIST(KM)	AZIM	UNIT	NOTES	FOOTAGE	CHRON	TAPE GRADE	REC GRD	FIRST ARRIVAL	CALIBRATION AMP VAL CH	100 /10
1	498	20 21 38.7	-42 57 25.7	1059	187.367	200.0	44		--	5	1				
2	499	20 20 37.8	-42 56 51.5	1069	189.473	200.1	55		--	13	0	0	30.08		
3	500	20 19 35.5	-42 56 14.2	1077	191.649	200.2	52		--	-17	0				
4	501	20 18 26.5	-42 55 42.4	1089	193.968	200.2	38		--	21	0	0	30.98		
5	502	20 17 1.8	-42 54 50.9	1097	196.935	200.4	92		--	-18	0	0	30.67		
6	503	20 15 42.2	-42 54 8.4	1114	199.668	200.4	142		--	27	0	0	31.24		
7	504	20 14 18.6	-42 53 24.6	1095	202.528	200.5	23		--	96	0				
8	505	20 13 15.4	-42 52 6.5	1096	205.152	200.9	105		--	-11	0				
9	506	20 12 40.8	-42 50 58.8	1090	206.850	201.3	120		--	-15	0	0	32.04		
10	507	20 12 5.0	-42 49 50.5	1098	208.597	201.7	137		--	35	0	2	32.86		
11	508	20 11 32.2	-42 48 49.1	1096	210.195	202.1	64		--	92	0	2	32.76		
12	509	20 10 49.9	-42 47 31.1	1115	212.256	202.5	82		--	-18	0	2	32.87		
13	510	20 10 11.3	-42 46 19.7	1119	214.148	202.9	25		--	46	0				
14	511	20 9 42.7	-42 45 13.0	1113	215.711	203.3	62		--	-9	0	2	33.12		
15	512	20 9 4.9	-42 44 16.7	1120	217.425	203.6	101		--	-12	0	2	33.66		
16	513	20 8 20.9	-42 43 21.4	1131	219.309	203.8	78		--	15	0	1	33.86		
17	514	20 7 46.9	-42 42 17.5	1134	221.016	204.1	132		--	-9	0	1	34.18		
18	515	20 7 7.6	-42 41 28.6	1137	222.701	204.3	74		--	-11	0				
19	516	20 6 25.5	-42 41 4.1	1138	224.178	204.4	32		--	-4	0	1	34.54		
20	517	20 4 27.5	-42 40 4.5	1150	228.212	204.4	45		--	8	2				

DATA FOR ONE TEAM-SHOT

SAUDI ARABIA 1978
SHOT NUMBER 12 TEAM 3
SHOT POINT 3
SHOT TIME: 47: 1:15: 0.010

														CALIBRATION			
	LOC	LATITUDE		LONGITUDE		ELEV	DIST(KM)	AZIM	UNIT	NOTES	FOOTAGE	CHRON	TAPE GRADE	REC GRD	FIRST ARRIVAL	AMP	VAL CH 100 /10
1	518	20	2	53.8	-42 39 32.5	1152	231.232	204.3	110		--	-3	0	2	34.76		
2	519	20	1	3.4	-42 40 1.2	1181	234.017	203.8	122		--	5	0				
3	520	19	59	56.3	-42 40 3.5	1170	235.892	203.6	133		--	-18	6				
4	521	19	59	1.4	-42 39 54.7	1170	237.551	203.4	119		--	-7	0	2	36.10		
5	522	19	57	58.5	-42 39 54.4	1186	239.344	203.3	96		--	-15	0	2	36.73		
6	523	19	56	38.7	-42 39 59.6	1196	241.556	203.0	30		--	-18	0	2	37.04		
7	524	19	55	40.9	-42 39 55.4	1216	243.250	202.9	107		--	-15	28				
8	525	19	54	38.3	-42 39 46.9	1226	245.131	202.7	103		--	-17	1				
9	526	19	54	0.7	-42 39 47.1	1230	246.201	202.6	89		--	11	17				
10	527	19	52	48.7	-42 39 53.9	1238	248.187	202.4	39		--	-11	0	2	37.50		
11	528	19	51	35.7	-42 39 56.4	1241	250.249	202.2	121		--	28	6				
12	529	19	50	11.9	-42 39 54.6	1253	252.673	202.0	75		--	-8	1				
13	530	19	49	10.0	-42 39 45.2	1252	254.550	201.9	68		--	32	0	1	38.30		
14	531	19	48	13.6	-42 39 33.7	1260	256.292	201.8	83		--	-30	6				
15	532	19	47	3.3	-42 39 21.6	1263	258.442	201.7	31		--	0	0	1	38.58		
16	533	19	45	58.3	-42 39 12.1	1249	260.411	201.6	49		--	-11	0	1	39.05		
17	534	19	44	6.8	-42 38 49.0	1268	263.863	201.5	77		--	0	1				
18	535	19	43	5.7	-42 38 37.7	1265	265.742	201.4	112		--	-4	1				
19	536	19	41	46.7	-42 38 34.8	1287	268.050	201.2	58		--	-17	6				
20	537	19	40	35.7	-42 38 45.0	1306	269.996	201.0	19		--	47	0	1	39.93		

DATA FOR ONE TEAM-SHOT

SAUDI ARABIA 1978
SHOT NUMBER 12 TEAM 4
SHOT POINT 3
SHOT TIME: 47: 1:15: 0.010

	LOC	LATITUDE	LONGITUDE	ELEV	DIST(KM)	AZIM	UNIT	NOTES	FOOTAGE	CHRON	TAPE GRADE	REC GRD	FIRST ARRIVAL	CALIBRATION AMP VAL CH	100 /10
	1	538	19 39 38.0	-42 38 27.0	1332	271.849	200.9	22	--	-56	7				
	2	539	19 38 56.2	-42 38 23.2	1331	273.097	200.9	60	--	-39	0	1	40.56		
	3	540	19 38 10.3	-42 38 43.6	1355	274.217	200.7	93	--	-48	0	1	40.56		
	4	541	19 37 9.8	-42 38 54.1	1366	275.863	200.5	106	--	-29	0	2	40.53		
	5	542	19 36 41.5	-42 38 38.5	1365	276.839	200.5		--	--	20				
	6	543	19 36 10.9	-42 38 35.4	1384	277.757	200.4	70	--	--	1				
	7	544	19 35 16.2	-42 38 27.1	1393	279.426	200.4	131	--	-87	0				
11	8	545	19 34 59.0	-42 38 58.9	1411	279.610	200.1	136	--	148	0	1	41.16		
	9	546	19 33 59.8	-42 39 24.8	1412	281.076	199.9	48	--	41	6				
	10	547	19 33 30.8	-42 39 32.1	1434	281.851	199.8	85	--	61	1				
	11	548	19 32 47.1	-42 40 12.5	1423	282.734	199.5	113	--	23	0	0	41.61		
	12	549	19 32 12.1	-42 40 46.2	1434	283.436	199.2	51	--	26	0	2	41.54		
	13	550	19 31 8.0	-42 40 50.6	1443	285.267	199.0	129	--	42	0	0	41.93		
	14	551	19 30 26.8	-42 40 25.1	1470	286.710	199.1	139	--	-35	0	1	41.99		
	15	552	19 29 46.0	-42 39 40.8	1483	288.323	199.3	124	--	27	0	2	42.35		
	16	553	19 28 28.3	-42 39 31.5	1514	290.678	199.2	35	--	-55	17	2	42.58		
	17	554	19 27 21.2	-42 39 48.7	1530	292.479	198.9	17	--	56	3/16	2	42.58		
	18	555	19 26 38.0	-42 39 56.8		293.669	198.8	100	--	-34	0				
	19	556	19 25 36.7	-42 40 25.4		295.203	198.5	40	--	12	0				
	20	557	19 24 25.2	-42 40 29.8		297.261	198.4	18	--	11	0	2	43.53		

DATA FOR ONE TEAM-SHOT

SAUDI ARABIA 1978
 SHOT NUMBER 12 TEAM 5
 SHOT POINT 3
 SHOT TIME: 47: 1:15: 0.010

	LOC	LATITUDE	LONGITUDE	ELEV	DIST(KM)	AZIM	UNIT	NOTES	FOOTAGE	CHRON	TAPE GRADE	CALIBRATION			
												REC GRD	FIRST ARRIVAL	AMP VAL	CH /10
1	558	19 23 44.4	-42 41 6.8	1574	298.126	198.1	97		--	-129	0				
2	559	19 22 20.4	-42 41 18.3	1583	300.496	197.9	56		--	9	3/24				
3	560	19 21 4.4	-42 41 35.5	1557	302.582	197.7	36		--	61	1				
4	561	19 20 1.7	-42 42 47.9	1537	303.809	197.2	88		--	-64	2				
5	562	19 18 5.7	-42 42 35.5	1568	307.344	197.0	15		--	-309	2				
6	563	19 16 48.1	-42 42 49.5	1559	309.521	196.8	71		--	33	0				
7	564	19 15 36.4	-42 43 4.6	1569	311.521	196.7	118		--	82	29				
8	565	19 14 20.8	-42 43 42.9	1546	313.449	196.3	14		--	-48	0				
9	566	19 13 25.6	-42 44 37.3	1567	314.655	196.0	63		--	-90	0	2	45.49		
10	567	19 11 56.7	-42 44 21.4	1594	317.423	195.9	73		--	-68	0	2	45.97		
11	568	19 10 41.9	-42 43 43.8	1625	319.944	196.0	104		--	-68	0				
12	569	19 9 47.8	-42 43 25.4	1641	321.699	196.0	146		--	90	0				
13	570	19 9 1.3	-42 42 46.7	1689	323.386	196.1	94		--	52	0				
14	571	19 8 18.5	-42 43 31.5	1644	324.303	195.8	76		--	--	29				
15	572	19 7 29.4	-42 43 18.9	1636	325.864	195.8	99		--	-7	0				
16	573	19 5 45.5	-42 43 22.9	1665	328.926	195.7	145		--	-49	0				
17	574	19 4 32.9	-42 43 32.8	1663	331.012	195.5	43		--	--	2				
18	575	19 3 3.8	-42 43 57.1	1657	333.483	195.3	72		--	-3	0				
19	576	19 1 40.1	-42 44 14.4	1703	335.850	195.1	12		--	-44	0				
20	577	19 0 51.7	-42 44 31.6	1698	337.167	194.9	69		--	6	0	2	48.59		

DATA FOR ONE TEAM-SHOT

SAUDI ARABIA 1978
 SHOT NUMBER 13 TEAM 1
 SHOT POINT 4
 SHOT TIME: 47: 1:30: 0.015

	LOC	LATITUDE	LONGITUDE	ELEV	DIST(KM)	AZIM	UNIT	NOTES	FOOTAGE	CHRON	TAPE GRADE	CALIBRATION			
												REC GRD	FIRST ARRIVAL	AMP VAL CH	100 /10
1	478	20 43 12.5	-43 7 59.6	958	86.496	35.7	115		--	18	0	1	13.90		
2	479	20 42 21.2	-43 7 30.4	966	84.717	35.8	87		--	68	0	0	14.00		
3	480	20 41 25.8	-43 6 52.2	973	82.681	35.9	125		--	-258	0	2	13.43		
4	481	20 40 32.6	-43 6 17.6	981	80.765	36.0	66		--	-86	0	1	13.12		
5	482	20 39 40.9	-43 5 43.9	992	78.720	36.1	24		--	7	0	0	13.02		
6	483	20 38 36.7	-43 5 16.7	994	76.661	36.5	28		--	-18	0	0	12.35		
7	484	20 37 21.2	-43 4 49.5	993	74.331	37.1	34		--	-14	0				
8	485	20 36 24.3	-43 4 29.1	994	72.582	37.5	143		--	32	0	1	12.30		
9	486	20 35 11.3	-43 3 50.0	998	70.115	37.9	108		--	-11	0	1	11.18		
10	487	20 33 34.0	-43 3 1.1	1015	66.888	38.5	98		--	--	0	0	10.80		
11	488	20 32 38.7	-43 2 29.7	1012	64.994	38.9	3		--	2	0	1	10.38		
12	489	20 31 19.5	-43 1 44.8	1022	62.286	39.3	79		--	9	0	1	10.36		
13	490	20 30 7.3	-43 1 2.5	1010	59.791	39.8	53		--	-13	0	0	9.35		
14	491	20 29 5.3	-43 0 43.7	1011	57.985	40.6	65		--	-24	0	0	9.19		
15	492	20 27 59.5	-43 0 24.7	1025	56.095	41.5	33		--	-18	0				
16	493	20 27 1.5	-42 59 55.8	1035	54.210	42.1	26		--	-3	29				
17	494	20 25 55.3	-42 59 20.8	1057	52.024	42.7	10		--	39	1				
18	495	20 24 47.2	-42 59 1.2	1043	50.109	43.9	128		--	21	0	2	7.48		
19	496	20 23 40.3	-42 58 34.4	1047	48.099	44.9			--	--	20				
20	497	20 22 50.7	-42 58 10.1	1053	46.525	45.6	90		--	-19	0	2	7.51		

DATA FOR ONE TEAM-SHOT

SAUDI ARABIA 1978
 SHOT NUMBER 13 TEAM 2
 SHOT POINT 4
 SHOT TIME: 47: 1:30: 0.015

	LOC	LATITUDE	LONGITUDE	ELEV	DIST(KM)	AZIM	UNIT	NOTES	FOOTAGE	CHRON	TAPE GRADE	REC GRD	FIRST ARRIVAL	CALIBRATION AMP VAL CH	100 /10
1	498	20 21 38.7	-42 57 25.7	1059	44.061	46.5	44		--	5	1				
2	499	20 20 37.8	-42 56 51.5	1069	42.059	47.4	55		--	13	0				
3	500	20 19 35.5	-42 56 14.2	1077	39.973	48.4	52		--	-17	0				
4	501	20 18 26.5	-42 55 42.4	1089	37.886	49.9	38		--	21	0				
5	502	20 17 1.8	-42 54 50.9	1097	35.084	51.6	92		--	-18	0				
6	503	20 15 42.2	-42 54 8.4	1114	32.616	53.6	142		--	27	0				
7	504	20 14 18.6	-42 53 24.6	1095	30.099	56.1	23		--	96	0	0	4.15		
8	505	20 13 15.4	-42 52 6.5	1096	27.134	56.8	105		--	-11	0	0	2.10		
9	506	20 12 40.8	-42 50 58.8	1090	24.906	56.4	120		--	-15	0	0	3.30		
10	507	20 12 5.0	-42 49 50.5	1098	22.648	56.0	137		--	35	0	0	1.52		
11	508	20 11 32.2	-42 48 49.1	1096	20.606	55.5	64		--	92	0	0	2.63		
12	509	20 10 49.9	-42 47 31.1	1115	18.004	54.8	82		--	-18	0	1	2.10		
13	510	20 10 11.3	-42 46 19.7	1119	15.627	54.0	25		--	46	0				
14	511	20 9 42.7	-42 45 13.0	1113	13.550	52.2	62		--	-9	0	0	1.80		
15	512	20 9 4.9	-42 44 16.7	1120	11.547	51.8	101		--	-12	0	0	1.73		
16	513	20 8 20.9	-42 43 21.4	1131	9.448	52.2	78		--	15	0	0	1.57		
17	514	20 7 46.9	-42 42 17.5	1134	7.346	49.8	132		--	-9	0	0	1.20		
18	515	20 7 7.6	-42 41 28.6	1137	5.481	49.9	74		--	-11	0	0	0.90		
19	516	20 6 25.5	-42 41 4.1	1138	4.138	57.3	32		--	-4	0	1	0.54		
20	517	20 4 27.5	-42 40 4.5	1150	2.233	128.5	45		--	8	2				

SAUDI ARABIA 1978
SHOT NUMBER 13 TEAM 3
SHOT POINT 4
SHOT TIME: 47: 1:30: 0.015

	LOC	LATITUDE		LONGITUDE		ELEV	DIST(KM)	AZIM	UNIT	NOTES	FOOTAGE	CHRON	TAPE GRADE	REC GRD	FIRST ARRIVAL	CALIBRATION			
																AMP	VAL	CH	100 /10
1	518	20	2	53.8	-42 39	32.5	1152	4.350	169.1	110		--	-3	0	0	0.11			
2	519	20	1	3.4	-42 40	1.2	1181	7.842	167.8	122		--	5	0	0	1.35			
3	520	19	59	56.3	-42 40	3.5	1170	9.879	170.0	133		--	-18	6					
4	521	19	59	1.4	-42 39	54.7	1170	11.510	172.7	119		--	-7	0	0	1.95			
5	522	19	57	58.5	-42 39	54.4	1186	13.431	173.8	96		--	-15	0	0	1.36			
6	523	19	56	38.7	-42 39	59.6	1196	15.888	174.2	30		--	-18	0	0	2.22			
7	524	19	55	40.9	-42 39	55.4	1216	17.646	175.2	107		--	-15	0	0	2.75			
8	525	19	54	38.3	-42 39	46.9	1226	19.547	176.4	103		--	-17	1					
9	526	19	54	0.7	-42 39	47.1	1230	20.700	176.6	89		--	11	0					
10	527	19	52	48.7	-42 39	53.9	1238	22.924	176.4	39		--	-11	0	0	3.13			
11	528	19	51	35.7	-42 39	56.4	1241	25.169	176.6	121		--	28	6					
12	529	19	50	11.9	-42 39	54.6	1253	27.739	177.0	75		--	-8	1					
13	530	19	49	10.0	-42 39	45.2	1252	29.628	177.7	68		--	32	0	0	4.10			
14	531	19	48	13.6	-42 39	33.7	1260	31.349	178.4	83		--	-30	6					
15	532	19	47	3.3	-42 39	21.6	1263	33.504	179.1	31		--	0	0	0	5.10			
16	533	19	45	58.3	-42 39	12.1	1249	35.498	179.6	49		--	-11	0					
17	534	19	44	6.8	-42 38	49.0	1268	38.927	180.7	77		--	0	1					
18	535	19	43	5.7	-42 38	37.7	1265	40.811	181.1	112		--	-4	1					
19	536	19	41	46.7	-42 38	34.8	1287	43.241	181.1	58		--	-17	6					
20	537	19	40	35.7	-42 38	45.0	1306	45.421	180.7	19		--	47	0					

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DATA FOR ONE TEAM-SHOT

SAUDI ARABIA 1978
SHOT NUMBER 13 TEAM 4
SHOT POINT 4
SHOT TIME: 47: 1:30: 0.015

	LOC	LATITUDE	LONGITUDE	ELEV	DIST(KM)	AZIM	UNIT	NOTES	FOOTAGE	CHRON	TAPE GRADE	REC GRD	FIRST ARRIVAL	CALIBRATION AMP VAL CH	100 /10
1	538	19 39 38.0	-42 38 27.0	1332	47.205	181.3	22		--	-56	7				
2	539	19 38 56.2	-42 38 23.2	1331	48.493	181.4	60		--	-39	0				
3	540	19 38 10.3	-42 38 43.6	1355	49.893	180.7	93		--	-48	0	0	7.70		
4	541	19 37 9.8	-42 38 54.1	1366	51.749	180.3	106		--	-29	0	0	8.30		
5	542	19 36 41.5	-42 38 38.5	1365	52.623	180.8			--	--	20				
6	543	19 36 10.9	-42 38 35.4	1384	53.565	180.9	70		--	--	1				
7	544	19 35 16.2	-42 38 27.1	1393	55.251	181.1	131		--	-87	0	0	8.92		
8	545	19 34 59.0	-42 38 58.9	1411	55.770	180.2	136		--	148	0				
9	546	19 33 59.8	-42 39 24.8	1412	57.593	179.4	48		--	41	6				
10	547	19 33 30.8	-42 39 32.1	1434	58.489	179.2	85		--	61	1				
11	548	19 32 47.1	-42 40 12.5	1423	59.859	178.1	113		--	23	0	0	9.45		
12	549	19 32 12.1	-42 40 46.2	1434	60.975	177.2	51		--	26	0	0	9.70		
13	550	19 31 8.0	-42 40 50.6	1443	62.949	177.2	129		--	42	3/16	0	10.26		
14	551	19 30 26.8	-42 40 25.1	1470	64.181	177.9	139		--	-35	0				
15	552	19 29 46.0	-42 39 40.8	1483	65.404	179.1	124		--	27	0	0	10.44		
16	553	19 28 28.3	-42 39 31.5	1514	67.787	179.3	35		--	-55	17	0	10.90		
17	554	19 27 21.2	-42 39 48.7	1530	69.857	178.9	17		--	56	0	0	11.37		
18	555	19 26 38.0	-42 39 56.8		71.191	178.8	100		--	-34	0				
19	556	19 25 36.7	-42 40 25.4		73.098	178.1	40		--	12	0				
20	557	19 24 25.2	-42 40 29.8		75.299	178.1	18	ARR 11.2??	--	11	0	2	12.22		

DATA FOR ONE TEAM-SHOT

SAUDI ARABIA 1978
 SHOT NUMBER 13 TEAM 5
 SHOT POINT 4
 SHOT TIME: 47: 1:30: 0.015

	LOC	LATITUDE	LONGITUDE	ELEV	DIST(KM)	AZIM	UNIT	NOTES	FOOTAGE	CHRON	TAPE GRADE	CALIBRATION			
												REC GRD	FIRST ARRIVAL	AMP VAL	CH /10
1	558	19 23 44.4	-42 41 6.8	1574	76.595	177.3	97		--	-129	0				
2	559	19 22 20.4	-42 41 18.3	1583	79.192	177.2	56		--	9	0				
3	560	19 21 4.4	-42 41 35.5	1557	81.913	176.9	36		--	61	1				
4	561	19 20 1.7	-42 42 47.9	1537	83.984	175.5	88		--	-64	2				
5	562	19 18 5.7	-42 42 35.5	1568	87.531	176.0	15		--	-309	2				
6	563	19 16 48.1	-42 42 49.5	1559	89.950	175.8	71		--	33	0	1	14.90		
7	564	19 15 36.4	-42 43 4.6	1569	92.193	175.6	118		--	82	29				
8	565	19 14 20.8	-42 43 42.9	1546	94.609	175.1	14		--	-48	3				
9	566	19 13 25.6	-42 44 37.3	1567	96.455	174.2	63		--	-90	0	1	15.60		
10	567	19 11 56.7	-42 44 21.4	1594	99.143	174.6	73		--	-68	0	1	16.04		
11	568	19 10 41.9	-42 43 43.8	1625	101.350	175.4	104		--	-68	0	0	16.30		
12	569	19 9 47.8	-42 43 25.4	1641	102.976	175.7	146		--	90	0	1	16.66		
13	570	19 9 1.3	-42 42 46.7	1689	104.330	176.4	94		--	52	0	1	16.88		
14	571	19 8 18.5	-42 43 31.5	1644	105.736	175.8	76		--	--	29				
15	572	19 7 29.4	-42 43 18.9	1636	107.225	176.0	99		--	-7	0	1	17.28		
16	573	19 5 45.5	-42 43 22.9	1665	110.434	176.1	145		--	-49	0	0	17.70		
17	574	19 4 32.9	-42 43 32.8	1663	112.691	176.0	43		--	--	2				
18	575	19 3 3.8	-42 43 57.1	1657	115.487	175.7	72		--	-3	0				
19	576	19 1 40.1	-42 44 14.4	1703	118.102	175.6	12		--	-44	0	1	19.00		
20	577	19 0 51.7	-42 44 31.6	1698	119.632	175.4	69		--	6	0				

DATA FOR ONE TEAM-SHOT

SAUDI ARABIA 1978
SHOT NUMBER 14 TEAM 1
SHOT POINT 6
SHOT TIME: 47: 4: 0: 0.057

	LOC	LATITUDE	LONGITUDE	ELEV	DIST(KM)	AZIM	UNIT	NOTES	FOOTAGE	CHRON	TAPE GRADE	CALIBRATION			
												REC GRD	FIRST ARRIVAL	AMP VAL	CH 100 /10
1	478	20 43 12.5	-43 7 59.6	958	474.844	13.9	115		--	18	0				
2	479	20 42 21.2	-43 7 30.4	966	473.103	13.9	87		--	68	0				
3	480	20 41 25.8	-43 6 52.2	973	471.175	13.8	125		--	-258	0				
4	481	20 40 32.6	-43 6 17.6	981	469.341	13.7	66		--	-86	0				
5	482	20 39 40.9	-43 5 43.9	992	467.560	13.6	24		--	7	0				
6	483	20 38 36.7	-43 5 16.7	994	465.446	13.6	28		--	-18	0				
7	484	20 37 21.2	-43 4 49.5	993	462.994	13.6	34		--	-14	0				
8	485	20 36 24.3	-43 4 29.1	994	461.147	13.5	143		--	32	0				
9	486	20 35 11.3	-43 3 50.0	998	458.690	13.5	108		--	-11	0				
10	487	20 33 34.0	-43 3 1.1	1015	455.438	13.4	98		--	--	0				
11	488	20 32 38.7	-43 2 29.7	1012	453.566	13.3	3		--	2	0				
12	489	20 31 19.5	-43 1 44.8	1022	450.888	13.2	79		--	9	0				
13	490	20 30 7.3	-43 1 2.5	1010	448.433	13.1	53		--	-13	0				
14	491	20 29 5.3	-43 0 43.7	1011	446.447	13.1	65		--	-24	0				
15	492	20 27 59.5	-43 0 24.7	1025	444.340	13.1	33		--	-18	0				
16	493	20 27 1.5	-42 59 55.8	1035	442.407	13.1	26		--	-3	29				
17	494	20 25 55.3	-42 59 20.8	1057	440.187	13.0	10		--	39	1				
18	495	20 24 47.2	-42 59 1.2	1043	438.008	13.0	128		--	21	0				
19	496	20 23 40.3	-42 58 34.4	1047	435.822	12.9			--	--	20				
20	497	20 22 50.7	-42 58 10.1	1053	434.171	12.9	90		--	-19	0				

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DATA FOR ONE TEAM-SHOT

SHOT NUMBER 14 TEAM 2

SHOT POINT 6

SHOT TIME: 47: 4: 0: 0.057

CALIBRATION

REC	FIRST				100
GRD	ARRIVAL	AMP	VAL	CH	/10

	LOC	LATITUDE	LONGITUDE	ELEV	DIST(KM)	AZIM	UNIT	NOTES	FOOTAGE	CHRON	TAPE GRADE
1	498	20 21 38.7	-42 57 25.7	1059	431.715	12.8	44		--	5	1
2	499	20 20 37.8	-42 56 51.5	1069	429.661	12.7	55		--	13	0
3	500	20 19 35.5	-42 56 14.2	1077	427.546	12.6	52		--	-17	0
4	501	20 18 26.5	-42 55 42.4	1089	425.263	12.6	38		--	21	0
5	502	20 17 1.8	-42 54 50.9	1097	422.387	12.5	92		--	-18	0
6	503	20 15 42.2	-42 54 8.4	1114	419.720	12.4	142		--	27	0
7	504	20 14 18.6	-42 53 24.6	1095	416.928	12.3	23		--	96	0
8	505	20 13 15.4	-42 52 6.5	1096	414.539	12.0	105		--	-11	0
9	506	20 12 40.8	-42 50 58.8	1090	413.087	11.8	120		--	-15	0
10	507	20 12 5.0	-42 49 50.5	1098	411.604	11.5	137		--	35	0
11	508	20 11 32.2	-42 48 49.1	1096	410.258	11.3	64		--	92	0
12	509	20 10 49.9	-42 47 31.1	1115	408.534	11.0	82		--	-18	0
13	510	20 10 11.3	-42 46 19.7	1119	406.970	10.8	25		--	46	0
14	511	20 9 42.7	-42 45 13.0	1113	405.745	10.5	62		--	-9	0
15	512	20 9 4.9	-42 44 16.7	1120	404.301	10.3	101		--	-12	0
16	513	20 8 20.9	-42 43 21.4	1131	402.678	10.1	78		--	15	0
17	514	20 7 46.9	-42 42 17.5	1134	401.320	9.9	132		--	-9	0
18	515	20 7 7.6	-42 41 28.6	1137	399.881	9.7	74		--	-11	0
19	516	20 6 25.5	-42 41 4.1	1138	398.479	9.6	32		--	-4	0
20	517	20 4 27.5	-42 40 4.5	1150	394.597	9.5	45		--	8	2

DATA FOR ONE TEAM-SHOT

SAUDI ARABIA 1978
SHOT NUMBER 14 TEAM 3
SHOT POINT 6
SHOT TIME: 47: 4: 0: 0.057

	LOC	LATITUDE		LONGITUDE		ELEV	DIST(KM)	AZIM	UNIT	NOTES	FOOTAGE	CHRON	TAPE GRADE	REC GRD	FIRST ARRIVAL	CALIBRATION			
																AMP	VAL	CH	100 /10
1	518	20	2	53.8	-42 39 32.5	1152	391.589	9.4	110		--	-3	0						
2	519	20	1	3.4	-42 40 1.2	1181	388.367	9.6	122		--	5	0	1	54.04				
3	520	19	59	56.3	-42 40 3.5	1170	386.336	9.7	133		--	-18	6						
4	521	19	59	1.4	-42 39 54.7	1170	384.621	9.7	119		--	-7	0						
5	522	19	57	58.5	-42 39 54.4	1186	382.703	9.7	96		--	-15	0						
6	523	19	56	38.7	-42 39 59.6	1196	380.301	9.8	30		--	-18	0						
7	524	19	55	40.9	-42 39 55.4	1216	378.521	9.9	107		--	-15	28						
8	525	19	54	38.3	-42 39 46.9	1226	376.574	9.9	103		--	-17	1						
9	526	19	54	0.7	-42 39 47.1	1230	375.433	9.9	89		--	11	17						
10	527	19	52	48.7	-42 39 53.9	1238	373.275	10.0	39		--	-11	6						
11	528	19	51	35.7	-42 39 56.4	1241	371.068	10.1	121		--	28	6						
12	529	19	50	11.9	-42 39 54.6	1253	368.509	10.1	75		--	-8	1						
13	530	19	49	10.0	-42 39 45.2	1252	366.580	10.1	68		--	32	0						
14	531	19	48	13.6	-42 39 33.7	1260	364.807	10.1	83		--	-30	6						
15	532	19	47	3.3	-42 39 21.6	1263	362.607	10.1	31		--	0	0						
16	533	19	45	58.3	-42 39 12.1	1249	360.584	10.1	49		--	-11	0						
17	534	19	44	6.8	-42 38 49.0	1268	357.076	10.1	77		--	0	1						
18	535	19	43	5.7	-42 38 37.7	1265	355.161	10.1	112		--	-4	1						
19	536	19	41	46.7	-42 38 34.8	1287	352.744	10.2	58		--	-17	6						
20	537	19	40	35.7	-42 38 45.0	1306	350.638	10.3	19		--	47	0						

DATA FOR ONE TEAM-SHOT

SAUDI ARABIA 1978
 SHOT NUMBER 14 TEAM 4
 SHOT POINT 6
 SHOT TIME: 47: 4: 0: 0.057

	LOC	LATITUDE	LONGITUDE	ELEV	DIST(KM)	AZIM	UNIT	NOTES	FOOTAGE	CHRON	TAPE GRADE	CALIBRATION			
												REC GRD	FIRST ARRIVAL	AMP VAL CH	100 /10
1	538	19 39 38.0	-42 38 27.0	1332	348.790	10.3	22		--	-56	7				
2	539	19 38 56.2	-42 38 23.2	1331	347.500	10.3	60		--	-39	0				
3	540	19 38 10.3	-42 38 43.6	1355	346.212	10.4	93		--	-48	0				
4	541	19 37 9.8	-42 38 54.1	1366	344.432	10.5	106		--	-29	0	2	47.78		
5	542	19 36 41.5	-42 38 38.5	1365	343.491	10.5			--	--	20				
6	543	19 36 10.9	-42 38 35.4	1384	342.545	10.5	70		--	--	1				
7	544	19 35 16.2	-42 38 27.1	1393	340.840	10.5	131		--	-87	0	2	48.37		
8	545	19 34 59.0	-42 38 58.9	1411	340.488	10.7	136		--	148	0				
9	546	19 33 59.8	-42 39 24.8	1412	338.834	10.9	48		--	41	6				
10	547	19 33 30.8	-42 39 32.1	1434	337.992	10.9	85		--	61	1				
11	548	19 32 47.1	-42 40 12.5	1423	336.895	11.2	113		--	23	0	2	47.82		
12	549	19 32 12.1	-42 40 46.2	1434	336.027	11.4	51		--	26	0				
13	550	19 31 8.0	-42 40 50.6	1443	334.113	11.5	129		--	42	0	2	46.83		
14	551	19 30 26.8	-42 40 25.1	1470	332.720	11.4	139		--	-35	1				
15	552	19 29 46.0	-42 39 40.8	1483	331.228	11.2	124		--	27	0	1	47.02		
16	553	19 28 28.3	-42 39 31.5	1514	328.824	11.2	35		--	-55	17	2	46.43		
17	554	19 27 21.2	-42 39 48.7	1530	326.891	11.4	17		--	56	0	2	46.88		
18	555	19 26 38.0	-42 39 56.8		325.629	11.5	100		--	-34	0				
19	556	19 25 36.7	-42 40 25.4		323.942	11.7	40		--	12	0	2	46.24		
20	557	19 24 25.2	-42 40 29.8		321.807	11.8	18		--	11	0	1			

DATA FOR ONE TEAM-SHOT

SAUDI ARABIA 1978
SHOT NUMBER 14 TEAM 5
SHOT POINT 6
SHOT TIME: 47: 4: 0: 0.057

														CALIBRATION			
	LOC	LATITUDE	LONGITUDE	ELEV	DIST(KM)	AZIM	UNIT	NOTES	FOOTAGE	CHRON	TAPE GRADE	REC GRD	FIRST ARRIVAL	AMP	VAL	CH	100 /10
1	558	19 23 44.4	-42 41 6.8	1574	320.798	12.0	97		--	-129	0	1	45.37				
2	559	19 22 20.4	-42 41 18.3	1583	318.331	12.2	56		--	9	0						
3	560	19 21 4.4	-42 41 35.5	1557	316.146	12.4	36		--	61	1						
4	561	19 20 1.7	-42 42 47.9	1537	314.719	12.8	88		--	-64	2						
5	562	19 18 5.7	-42 42 35.5	1568	311.144	12.9	15		--	-309	2						
6	563	19 16 48.1	-42 42 49.5	1559	308.902	13.1	71		--	33	0	1	44.37				
7	564	19 15 36.4	-42 43 4.6	1569	306.846	13.3	118		--	82	29						
8	565	19 14 20.8	-42 43 42.9	1546	304.836	13.6	14		--	-48	0						
9	566	19 13 25.6	-42 44 37.3	1567	303.557	14.0	63		--	-90	0	0	43.90				
10	567	19 11 56.7	-42 44 21.4	1594	300.781	14.0	73		--	-68	0	1	43.09				
11	568	19 10 41.9	-42 43 43.8	1625	298.274	13.9	104		--	-68	0						
12	569	19 9 47.8	-42 43 25.4	1641	296.523	13.9	146		--	90	0	1	42.92				
13	570	19 9 1.3	-42 42 46.7	1689	294.860	13.7	94		--	52	0	2	41.80				
14	571	19 8 18.5	-42 43 31.5	1644	293.892	14.0	76		--	--	29						
15	572	19 7 29.4	-42 43 18.9	1636	292.330	14.0	99		--	-7	0	2	41.78				
16	573	19 5 45.5	-42 43 22.9	1665	289.246	14.2	145		--	-49	0	2	41.80				
17	574	19 4 32.9	-42 43 32.8	1663	287.145	14.4	43		--	--	2						
18	575	19 3 3.8	-42 43 57.1	1657	284.659	14.7	72		--	-3	0						
19	576	19 1 40.1	-42 44 14.4	1703	282.289	14.9	12		--	-44	0	2	40.55				
20	577	19 0 51.7	-42 44 31.6	1698	280.976	15.1	69		--	6	0	1	40.34				

DATA FOR ONE TEAM-SHOT

SAUDI ARABIA 1978
SHOT NUMBER 15 TEAM 1
SHOT POINT 5
SHOT TIME: 51: 1: 0: 0.013

	LOC	LATITUDE	LONGITUDE	ELEV	DIST(KM)	AZIM	UNIT	NOTES	FOOTAGE	CHRON	TAPE GRADE	REC GRD	FIRST ARRIVAL	CALIBRATION		
														AMP	VAL	100 /10
1	895	17 6 37.3	-42 21 41.7	2	73.756	178.8	3		--	1	0	2	12.63			
2	896	17 5 55.1	-42 21 42.6	1	75.053	178.8	53		--	-10	6	2	12.79			
3	897	17 4 9.2	-42 21 54.4	1	78.316	178.6	65		--	-30	0	2	13.10			
4	898	17 2 49.1	-42 22 24.2	1	81.184	178.0	132		--	-10	6					
5	899	17 1 54.0	-42 22 22.0	1	82.883	178.1	120		--	-14	0	2	13.83			
6	900	17 1 4.0	-42 21 52.0	1	84.401	178.7	32		--	-19	6					
7	905	16 53 45.0	-42 17 29.0	1	98.114	183.4	74		--	-8	0	1	15.79			
8	906	16 52 43.0	-42 17 45.0	1	99.999	183.1	31		--	-130	0	0	16.04			
9	907	16 51 29.0	-42 17 32.0	1	102.302	183.2	105		--	-14	0	0	16.28			
10	908	16 44 38.0	-42 13 14.0	1	115.610	186.7	62		--	-15	0	2	17.94			
11	909	16 44 14.0	-42 12 19.0	1	116.544	187.4	55		--	13	3/24					
12	910	16 43 25.0	-42 11 50.0	1	118.157	187.8	26		--	3	0	1	18.23			
13	911	16 43 1.0	-42 10 50.0	5	119.140	188.6	52		--	-48	0	2	18.34			
14	912	16 42 5.0	-42 10 29.0	10	120.943	188.7	38		--	7	0	1	18.52			
15	913	16 41 18.0	-42 10 19.0	10	122.423	188.8	82		--	-54	0	1	18.66			
16	914	16 39 23.0	-42 10 8.0	14	125.983	188.7	68		--	12	0	2	19.19			
17	915	16 38 6.0	-42 9 42.0	15	128.450	188.8	44		--	10	0	2	19.28			
18	916	16 37 1.0	-42 9 36.0	17	130.462	188.8	143		--	0	0	2	19.60			
19	917	16 36 1.0	-42 9 18.0	5	132.374	188.9	142		--	14	0	2	20.19			
20	925	16 34 24.0	-42 3 30.0	1	137.255	193.0	23		--	--	1					

DATA FOR ONE TEAM-SHOT

SAUDI ARABIA 1978
SHOT NUMBER 15 TEAM 2
SHOT POINT 5
SHOT TIME: 51: 1: 0: 0.013

														CALIBRATION		
														REC	FIRST	100
														GRD	ARRIVAL	AMP VAL CH /10
LOC	LATITUDE	LONGITUDE	ELEV	DIST(KM)	AZIM	UNIT	NOTES	FOOTAGE	CHRON	TAPE	GRADE					
1	801	17 40 21.1	-42 17 41.7	68	12.757	205.4	137		--	9	0	0	2.16			
2	802	17 39 4.4	-42 17 46.7	59	14.869	201.0	110		--	-13	0	0	2.56			
3	803	17 37 32.3	-42 17 53.3	45	17.483	197.1	34		--	-23	0	0	3.02			
4	804	17 35 52.1	-42 17 55.8	32	20.429	194.3	64		--	58	2					
5	805	17 33 49.7	-42 18 1.6	22	24.060	191.7	25		--	-22	0	0	4.72			
6	806	17 33 33.4	-42 24 5.4	61	24.756	166.4	45	UNIT ?	--	8	0					
7	807	17 32 2.6	-42 24 9.9	52	27.503	167.5	122		--	10	6	0	4.54			
8	808	17 30 32.1	-42 24 12.1	43	30.240	168.5	90		--	-23	1	0	6.36			
9	809	17 28 6.3	-42 24 19.2	40	34.679	169.6	19		--	-23	2					
10	810	17 26 40.3	-42 24 21.1	36	37.293	170.3	78		--	9	0	0	6.36			
11	811	17 24 16.5	-42 24 32.2	34	41.708	170.9	49		--	-16	6	0	7.23			
12	812	17 22 21.6	-42 24 26.7	31	45.174	171.8	30		--	-12	0	0	7.72			
13	813	17 20 5.2	-42 24 29.4	31	49.340	172.4	128		--	-22	0	0	8.51			
14	888	17 18 2.1	-42 23 13.3	4	52.862	175.3	92		--	-15	0	0	9.20			
15	889	17 15 54.3	-42 22 25.8	3	56.690	177.1	39		--	-7	0	0	9.88			
16	890	17 14 1.1	-42 22 2.1	2	60.136	177.9	108		--	-28	1					
17	891	17 12 14.2	-42 20 18.7	3	63.387	180.8	28		--	-21	3/16					
18	892	17 10 25.4	-42 21 8.7	2	66.729	179.5	24		--	3	0	0	11.52			
19	893	17 9 11.1	-42 21 36.6	2	69.025	178.8	98		--	-51	2					
20	894	17 8 22.2	-42 21 53.6	2	70.541	178.4	79		--	14	0	0	12.15			

DATA FOR ONE TEAM-SHOT

SAUDI ARABIA 1978
SHOT NUMBER 15 TEAM 3
SHOT POINT 5
SHOT TIME: 51: 1: 0: 0.013

	LOC	LATITUDE	LONGITUDE	ELEV	DIST(KM)	AZIM	UNIT	NOTES	FOOTAGE	CHRON	TAPE GRADE	REC GRD	FIRST ARRIVAL	CALIBRATION			
														AMP	VAL	CH	100 /10
1	578	19 0 32.1	-42 43 19.9	1705	142.633	16.2	106		--	1	0	1	22.76				
2	579	18 59 22.8	-42 43 35.1	1720	140.704	16.6	125		--	--	1						
3	580	18 58 45.7	-42 43 17.7	1729	139.462	16.6	113		--	16	0	0	22.31				
4	581	18 57 11.5	-42 43 22.5	1745	136.716	17.0	100		--	2	0						
5	582	18 55 9.7	-42 43 5.5	1795	132.973	17.3	89		--	22	0	0	21.35				
6	583	18 53 36.4	-42 43 47.0	1837	130.596	18.1	48		--	22	0	1	21.22				
7	584	18 52 29.1	-42 45 0.2	1804	129.311	19.3	10		--	58	0	0	20.81				
8	585	18 51 10.6	-42 45 20.7	1799	127.230	20.0	130		--	-7	0	1	20.49				
9	586	18 50 29.1	-42 45 53.6	1814	126.359	20.6	83		--	-17	0	0	20.33				
10	587	18 49 40.0	-42 46 9.9	1811	125.109	21.0	133		--	-4	0	1	20.28				
11	588	18 48 30.1	-42 46 52.8	1812	123.558	21.9	77		--	87	0	0	19.99				
12	589	18 47 6.9	-42 47 29.3	1811	121.588	22.9	87		--	57	3/24						
13	590	18 45 34.1	-42 47 48.9	1807	119.177	23.6	96		--	-2	3/24						
14	591	18 44 14.7	-42 47 58.3	1795	117.048	24.3	66		--	--	20						
15	592	18 43 38.7	-42 47 39.3	1821	115.806	24.2	75		--	3	0	1	18.88				
16	593	18 42 18.4	-42 47 13.0	1830	113.227	24.4	112		--	-3	0	0	18.51				
17	594	18 42 6.2	-42 45 49.8	1862	111.900	23.3			--	--	20	0					
18	595	18 40 46.0	-42 45 52.1	1849	109.657	23.9	121		--	-27	0	1	17.90				
19	596	18 39 32.3	-42 45 6.9	1819	107.041	23.7	58		--	-3	0	0	17.16				
20	597	18 38 17.4	-42 44 3.5	1835	104.181	23.3	103		--	-3	0	0	16.62				

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DATA FOR ONE TEAM-SHOT

SAUDI ARABIA 1978
 SHOT NUMBER 15 TEAM 4
 SHOT POINT 5
 SHOT TIME: 51: 1: 0: 0.013

	LOC	LATITUDE	LONGITUDE	ELEV	DIST(KM)	AZIM	UNIT	NOTES	FOOTAGE	CHRON	TAPE GRADE	REC GRD	FIRST ARRIVAL	CALIBRATION AMP VAL CH	100 /10
1	518	20 2 53.8	-42 39 32.5	1152	254.710	7.5	51		--	-5	1				
2	520	19 59 56.3	-42 40 3.5	1170	249.399	7.8	129		--	0	0	1	37.53		
3	523	19 56 38.7	-42 39 59.6	1196	243.337	8.0	124		--	-2	1/24/25				
4	526	19 54 0.7	-42 39 47.1	1230	238.456	8.1	85		--	27	0	1	36.54		
5	529	19 50 11.9	-42 39 54.6	1253	231.490	8.4	139		--	-28	0	0	36.66		
6	532	19 47 3.3	-42 39 21.6	1263	225.588	8.4	18		--	-7	0	0	34.72		
7	534	19 44 6.8	-42 38 49.0	1268	220.059	8.3	70		--	--	1				
8	536	19 41 46.7	-42 38 34.8	1287	215.717	8.4	60		--	-30	0				
9	538	19 39 38.0	-42 38 27.0	1332	211.749	8.5	35	48,36,30	--	-42	23	1	33.26		
10	541	19 37 9.8	-42 38 54.1	1366	207.344	8.9	22		--	-39	6				
11	545	19 34 59.0	-42 38 58.9	1411	203.376	9.1	17		--	47	0	2	32.26		
12	549	19 32 12.1	-42 40 46.2	1434	198.816	10.2	136		--	79	0	2	31.67		
13	552	19 29 46.0	-42 39 40.8	1483	194.040	9.9	93		--	-38	0	2	30.95		
14	555	19 26 38.0	-42 39 56.8		188.407	10.3	131		--	-59	0	1	30.27		
15	557	19 24 25.2	-42 40 29.8		184.552	10.9	40		--	16	0	2	29.70		
16	926	16 33 0.0	-42 2 47.0	1	140.070	193.2	115		--	-88	0				
17	927	16 32 19.0	-42 1 59.0	1	141.630	193.7			--	--	20				
18	928	16 28 43.0	-41 57 4.0	1	150.321	196.3	101		--	-8	0				
19	929	16 25 41.0	-41 53 30.0	1	157.549	198.0	107		--	-14	0				
20	930	16 25 24.0	-41 52 34.0	1	158.563	198.5	119		--	-18	0				

DATA FOR ONE TEAM-SHOT

SAUDI ARABIA 1978
 SHOT NUMBER 15 TEAM 5
 SHOT POINT 5
 SHOT TIME: 51: 1: 0: 0.013

	LOC	LATITUDE	LONGITUDE	ELEV	DIST(KM)	AZIM	UNIT	NOTES	FOOTAGE	CHRON	TAPE GRADE	REC GRD	FIRST ARRIVAL	CALIBRATION AMP VAL CH	100 /10
1	558	19 23 44.4	-42 41 6.8	1574	183.523	11.3	145		--	-17	0	0	29.42		
2	559	19 22 20.4	-42 41 18.3	1583	181.045	11.5	72		--	-10	0				
3	560	19 21 4.4	-42 41 35.5	1557	178.849	11.9	146		--	30	0	1	28.74		
4	561	19 20 1.7	-42 42 47.9	1537	177.404	12.7	88		--	-33	1				
5	562	19 18 5.7	-42 42 35.5	1568	173.828	12.8	97		--	-72	0	0	27.78		
6	563	19 16 48.1	-42 42 49.5	1559	171.585	13.1	14		--	-100	0	0	27.38		
7	564	19 15 36.4	-42 43 4.6	1569	169.529	13.4	69		--	-18	1				
8	565	19 14 20.8	-42 43 42.9	1546	167.526	14.0	94		--	29	0	1	26.90		
9	566	19 13 25.6	-42 44 37.3	1567	166.264	14.7	104		--	-39	0	1	26.70		
10	567	19 11 56.7	-42 44 21.4	1594	163.491	14.8	99		--	-7	0	1	26.07		
11	568	19 10 41.9	-42 43 43.8	1625	160.979	14.6	15		--	--	20				
12	569	19 9 47.8	-42 43 25.4	1641	159.226	14.6	56	TAPE GRD?	--	-3	3				
13	570	19 9 1.3	-42 42 46.7	1689	157.556	14.3	43		--	--	20				
14	571	19 8 18.5	-42 43 31.5	1644	156.606	14.9	12		--	-27	0	0	24.92		
15	572	19 7 29.4	-42 43 18.9	1636	155.044	14.9	118		--	12	0	0	24.76		
16	573	19 5 45.5	-42 43 22.9	1665	151.975	15.2	73		--	--	29				
17	574	19 4 32.9	-42 43 32.8	1663	149.889	15.6	36		--	-36	0	0	24.02		
18	575	19 3 3.8	-42 43 57.1	1657	147.435	16.1	76		--	39	0	0	23.56		
19	576	19 1 40.1	-42 44 14.4	1703	145.096	16.6	63		--	-46	0	0	23.23		
20	577	19 0 51.7	-42 44 31.6	1698	143.810	17.0	71		--	-35	0	0	23.06		

DATA FOR ONE TEAM-SHOT

SAUDI ARABIA 1978
SHOT NUMBER 16 TEAM 1
SHOT POINT 6
SHOT TIME: 51: 4: 0: 0.037

	LOC	LATITUDE	LONGITUDE	ELEV	DIST(KM)	AZIM	UNIT	NOTES	FOOTAGE	CHRON	TAPE GRADE	REC GRD	FIRST ARRIVAL	CALIBRATION			
														AMP	VAL	CH	100 /10
1	895	17 6 37.3	-42 21 41.7	2	67.782	28.7	3		--	1	0	0	12.50				
2	896	17 5 55.1	-42 21 42.6	1	66.661	29.3	53		--	-10	6	0	12.53				
3	897	17 4 9.2	-42 21 54.4	1	64.022	31.0	65		--	-30	0	0	12.00				
4	898	17 2 49.1	-42 22 24.2	1	62.400	32.9	132		--	-10	6						
5	899	17 1 54.0	-42 22 22.0	1	60.949	33.7	120		--	-14	0	0	11.45				
6	900	17 1 4.0	-42 21 52.0	1	59.178	33.8	32		--	-19	6						
7	905	16 53 45.0	-42 17 29.0	1	43.649	35.2	74		--	-8	0	0	8.90				
8	906	16 52 43.0	-42 17 45.0	1	42.390	37.2	31		--	-130	0	0	8.73				
9	907	16 51 29.0	-42 17 32.0	1	40.359	38.7	105		--	-14	0	0	8.70				
10	908	16 44 38.0	-42 13 14.0	1	25.796	43.0	62		--	-15	0	0	5.70				
11	909	16 44 14.0	-42 12 19.0	1	24.155	41.3	55		--	13	0	0	5.29				
12	910	16 43 25.0	-42 11 50.0	1	22.460	42.2	26		--	3	0	0	4.99				
13	911	16 43 1.0	-42 10 50.0	5	20.735	40.0	52		--	-48	0	0	5.00				
14	912	16 42 5.0	-42 10 29.0	10	19.026	41.9	38		--	7	17	0	4.56				
15	913	16 41 18.0	-42 10 19.0	10	17.768	44.3	82		--	-54	7						
16	914	16 39 23.0	-42 10 8.0	14	15.175	52.7	68		--	12	0	0	3.60				
17	915	16 38 6.0	-42 9 42.0	15	13.205	58.9	44		--	10	0	0	3.08				
18	916	16 37 1.0	-42 9 36.0	17	12.129	66.6	143		--	0	17	0	2.86				
19	917	16 36 1.0	-42 9 18.0	5	11.007	74.3	142		--	14	0	0	2.23				
20	925	16 34 24.0	-42 3 30.0	1	0.279	90.0	23		--	--	1						

DATA FOR ONE TEAM-SHOT

SAUDI ARABIA 1978
 SHOT NUMBER 16 TEAM 2
 SHOT POINT 6
 SHOT TIME: 51: 4: 0: 0.037

														CALIBRATION			
														REC		FIRST	100
														GRD		ARRIVAL	/10
																AMP VAL CH	
1	801	17 40 21.1	-42 17 41.7	68	124.835	11.8	137		--	9	0			2		18.40	
2	802	17 39 4.4	-42 17 46.7	59	122.547	12.1	110		--	-13	0						
3	803	17 37 32.3	-42 17 53.3	45	119.809	12.5	34		--	-23	0						
4	804	17 35 52.1	-42 17 55.8	32	116.806	12.9	64		--	58	0						
5	805	17 33 49.7	-42 18 1.6	22	113.160	13.4	25		--	-22	0						
6	806	17 33 33.4	-42 24 5.4	61	115.623	18.6	45	UNIT ?	--	8	0						
7	807	17 32 2.6	-42 24 9.9	52	113.014	19.2	122		--	10	0			0		18.10	
8	808	17 30 32.1	-42 24 12.1	43	110.397	19.7	90		--	-23	1						
9	809	17 28 6.3	-42 24 19.2	40	106.239	20.6	19		--	-23	2						
10	810	17 26 40.3	-42 24 21.1	36	103.776	21.1	78		--	9	0			2		16.94	
11	811	17 24 16.5	-42 24 32.2	34	99.766	22.2	49		--	-16	6						
12	812	17 22 21.6	-42 24 26.7	31	96.428	23.0	30		--	-12	0			1		15.10	
13	813	17 20 5.2	-42 24 29.4	31	92.591	24.0	128		--	-22	2						
14	888	17 18 2.1	-42 23 13.3	4	88.208	23.7	92		--	-15	0			0		14.71	
15	889	17 15 54.3	-42 22 25.8	3	84.031	23.9	39		--	-7	0			0		13.95	
16	890	17 14 1.1	-42 22 2.1	2	80.553	24.4	108		--	-28	1						
17	891	17 12 14.2	-42 20 18.7	3	76.013	23.4	28		--	-21	1						
18	892	17 10 25.4	-42 21 8.7	2	73.579	25.4	24		--	3	0						
19	893	17 9 11.1	-42 21 36.6	2	71.893	26.8	98		--	-51	2						
20	894	17 8 22.2	-42 21 53.6	2	70.788	27.7	79		--	14	0			2		11.80	

DATA FOR ONE TEAM-SHOT

SAUDI ARABIA 1978
 SHOT NUMBER 16 TEAM 3
 SHOT POINT 6
 SHOT TIME: 51: 4: 0: 0.037

	LOC	LATITUDE	LONGITUDE	ELEV	DIST(KM)	AZIM	UNIT	NOTES	FOOTAGE	CHRON	TAPE GRADE	CALIBRATION			
												REC GRD	FIRST ARRIVAL	AMP VAL	CH /10
1	578	19 0 32.1	-42 43 19.9	1705	279.852	14.7	106		--	1	0				
2	579	18 59 22.8	-42 43 35.1	1720	277.896	14.9	125		--	--	1				
3	580	18 58 45.7	-42 43 17.7	1729	276.659	14.9	113		--	16	0	1	40.40		
4	581	18 57 11.5	-42 43 22.5	1745	273.884	15.0	100		--	2	0				
5	582	18 55 9.7	-42 43 5.5	1795	270.121	15.1	89		--	22	0	1	39.54		
6	583	18 53 36.4	-42 43 47.0	1837	267.665	15.6	48		--	22	0				
7	584	18 52 29.1	-42 45 0.2	1804	266.249	16.1	10		--	58	0	0	39.49		
8	585	18 51 10.6	-42 45 20.7	1799	264.091	16.4	130		--	-7	0	2	39.07		
9	586	18 50 29.1	-42 45 53.6	1814	263.135	16.7	83		--	-17	0	2	39.08		
10	587	18 49 40.0	-42 46 9.9	1811	261.820	16.9	133		--	-4	0	2	38.00		
11	588	18 48 30.1	-42 46 52.8	1812	260.127	17.3	77		--	87	0	2	38.30		
12	589	18 47 6.9	-42 47 29.3	1811	257.998	17.7	87		--	57	0	2	38.50		
13	590	18 45 34.1	-42 47 48.9	1807	255.444	18.0	96		--	-2	0				
14	591	18 44 14.7	-42 47 58.3	1795	253.200	18.2	66		--	--	20				
15	592	18 43 38.7	-42 47 39.3	1821	251.971	18.2	75		--	3	0	1	37.30		
16	593	18 42 18.4	-42 47 13.0	1830	249.373	18.2	112		--	-3	0				
17	594	18 42 6.2	-42 45 49.8	1862	248.263	17.7			--	--	20				
18	595	18 40 46.0	-42 45 52.1	1849	245.927	17.9	121		--	-27	0	1	36.00		
19	596	18 39 32.3	-42 45 6.9	1819	243.355	17.8	58		--	-3	0	1	36.36		
20	597	18 38 17.4	-42 44 3.5	1835	240.588	17.5	103		--	-3	3				

DATA FOR ONE TEAM-SHOT

SAUDI ARABIA 1978
SHOT NUMBER 16 TEAM 4
SHOT POINT 6
SHOT TIME: 51: 4: 0: 0.037

	LOC	LATITUDE	LONGITUDE	ELEV	DIST(KM)	AZIM	UNIT	NOTES	FOOTAGE	CHRON	TAPE GRADE	REC GRD	FIRST ARRIVAL	CALIBRATION AMP VAL CH	100 /10
1	518	20 2 53.8	-42 39 32.5	1152	391.589	9.4	51		--	-5	1				
2	520	19 59 56.3	-42 40 3.5	1170	386.336	9.7	129		--	0	0				
3	523	19 56 38.7	-42 39 59.6	1196	380.301	9.8	124		--	-2	25				
4	526	19 54 0.7	-42 39 47.1	1230	375.433	9.9	85		--	27	0				
5	529	19 50 11.9	-42 39 54.6	1253	368.509	10.1	139		--	-28	0				
6	532	19 47 3.3	-42 39 21.6	1263	362.607	10.1	18		--	-7	0				
7	534	19 44 6.8	-42 38 49.0	1268	357.076	10.1	70		--	--	1				
8	536	19 41 46.7	-42 38 34.8	1287	352.744	10.2	60		--	-30	0				
9	538	19 39 38.0	-42 38 27.0	1332	348.790	10.3	35		--	-42	23				
10	541	19 37 9.8	-42 38 54.1	1366	344.432	10.5	22		--	-39	6	2	47.78		
11	545	19 34 59.0	-42 38 58.9	1411	340.488	10.7	17		--	47	0				
12	549	19 32 12.1	-42 40 46.2	1434	336.027	11.4	136		--	79	0				
13	552	19 29 46.0	-42 39 40.8	1483	331.228	11.2	93		--	-38	0	1	47.02		
14	555	19 26 38.0	-42 39 56.8		325.629	11.5	131		--	-59	0				
15	557	19 24 25.2	-42 40 29.8		321.807	11.8	40		--	16	0	2	46.24		
16	926	16 33 0.0	-42 2 47.0	1	2.768	201.1	115		--	-88	0				
17	927	16 32 19.0	-42 1 59.0	1	4.541	212.2			--	--	20				
18	928	16 28 43.0	-41 57 4.0	1	15.316	226.8	101		--	-8	0				
19	929	16 25 41.0	-41 53 30.0	1	23.774	227.5	107		--	-14	0				
20	930	16 25 24.0	-41 52 34.0	1	25.363	229.1	119		--	-18	0				

DATA FOR ONE TEAM--SHOT

SAUDI ARABIA 1978
SHOT NUMBER 16 TEAM 5
SHOT POINT 6
SHOT TIME: 51: 4: 0: 0.037

	LOC	LATITUDE	LONGITUDE	ELEV	DIST(KM)	AZIM	UNIT	NOTES	FOOTAGE	CHRON	TAPE GRADE	REC GRD	FIRST ARRIVAL	CALIBRATION AMP VAL CH	100 /10
1	558	19 23 44.4	-42 41 6.8	1574	320.798	12.0	145		--	-17	0	1	45.37		
2	559	19 22 20.4	-42 41 18.3	1583	318.331	12.2	72		--	-10	0				
3	560	19 21 4.4	-42 41 35.5	1557	316.146	12.4	146		--	30	0	2	45.27		
4	561	19 20 1.7	-42 42 47.9	1537	314.719	12.8	88		--	-33	1				
5	562	19 18 5.7	-42 42 35.5	1568	311.144	12.9	97		--	-72	0	1	44.90		
6	563	19 16 48.1	-42 42 49.5	1559	308.902	13.1	14		--	-100	0	1	44.37		
7	564	19 15 36.4	-42 43 4.6	1569	306.846	13.3	69		--	-18	1				
8	565	19 14 20.8	-42 43 42.9	1546	304.836	13.6	94		--	29	0	1	44.16		
9	566	19 13 25.6	-42 44 37.3	1567	303.557	14.0	104		--	-39	0				
10	567	19 11 56.7	-42 44 21.4	1594	300.781	14.0	99		--	-7	0	1	43.09		
11	568	19 10 41.9	-42 43 43.8	1625	298.274	13.9	15		--	--	20				
12	569	19 9 47.8	-42 43 25.4	1641	296.523	13.9	56		--	-3	0	1	42.92		
13	570	19 9 1.3	-42 42 46.7	1689	294.860	13.7	43		--	--	20				
14	571	19 8 18.5	-42 43 31.5	1644	293.892	14.0	12		--	-27	0	1	42.50		
15	572	19 7 29.4	-42 43 18.9	1636	292.330	14.0	118		--	12	0	2	41.78		
16	573	19 5 45.5	-42 43 22.9	1665	289.246	14.2	73		--	--	29				
17	574	19 4 32.9	-42 43 32.8	1663	287.145	14.4	36		--	-36	0				
18	575	19 3 3.8	-42 43 57.1	1657	284.659	14.7	76		--	39	0	0	41.15		
19	576	19 1 40.1	-42 44 14.4	1703	282.289	14.9	63		--	-46	0				
20	577	19 0 51.7	-42 44 31.6	1698	280.976	15.1	71		--	-35	0				

DATA FOR ONE TEAM-SHOT

SAUDI ARABIA 1978
 SHOT NUMBER 17 TEAM 1
 SHOT POINT 5
 SHOT TIME: 53: 1:15: 0.014

	LOC	LATITUDE	LONGITUDE	ELEV	DIST(KM)	AZIM	UNIT	NOTES	FOOTAGE	CHRON	TAPE GRADE	CALIBRATION			
												REC GRD	FIRST ARRIVAL	AMP VAL CH	100 /10
1	895	17 6 37.3	-42 21 41.7	2	73.756	178.8	3		--	-6	0	2	12.63		
2	896	17 5 55.1	-42 21 42.6	1	75.053	178.8	53		--	-22	6	2	12.79		
3	897	17 4 9.2	-42 21 54.4	1	78.316	178.6	65		--	-56	0	2	13.10		
4	898	17 2 49.1	-42 22 24.2	1	81.184	178.0	132		--	-23	6				
5	899	17 1 54.0	-42 22 22.0	1	82.883	178.1	120		--	-31	0	2	13.83		
6	900	17 1 4.0	-42 21 52.0	1	84.401	178.7	32		--	-43	1				
7	905	16 53 45.0	-42 17 29.0	1	98.114	183.4	74		--	-17	0	1	15.79		
8	906	16 52 43.0	-42 17 45.0	1	99.999	183.1	31		--	-228	0	0	16.04		
9	907	16 51 29.0	-42 17 32.0	1	102.302	183.2	105		--	-27	0	0	16.28		
10	908	16 44 38.0	-42 13 14.0	1	115.610	186.7	62	NO RUN ??	--	-34	1	2	17.94		
11	909	16 44 14.0	-42 12 19.0	1	116.544	187.4	55		--	19	0				
12	910	16 43 25.0	-42 11 50.0	1	118.157	187.8	26		--	0	0	1	18.23		
13	911	16 43 1.0	-42 10 50.0	5	119.140	188.6	52		--	-98	0	2	18.34		
14	912	16 42 5.0	-42 10 29.0	10	120.943	188.7	38		--	9	0	1	18.52		
15	913	16 41 18.0	-42 10 19.0	10	122.423	188.8	82		--	-54	0	1	18.66		
16	914	16 39 23.0	-42 10 8.0	14	125.983	188.7	68		--	12	0	2	19.19		
17	915	16 38 6.0	-42 9 42.0	15	128.450	188.8	44		--	9	0	2	19.28		
18	916	16 37 1.0	-42 9 36.0	17	130.462	188.8	143		--	-15	0	2	19.60		
19	917	16 36 1.0	-42 9 18.0	5	132.374	188.9	142		--	124	0	2	20.19		
20	925	16 34 24.0	-42 3 30.0	1	137.255	193.0	23		--	98	0				

DATA FOR ONE TEAM-SHOT

SAUDI ARABIA 1978
SHOT NUMBER 17 TEAM 2
SHOT POINT 5
SHOT TIME: 53: 1:15: 0.014

	LOC	LATITUDE	LONGITUDE	ELEV	DIST(KM)	AZIM	UNIT	NOTES	FOOTAGE	CHRON	TAPE GRADE	REC GRD	FIRST ARRIVAL	CALIBRATION		
														AMP	VAL	100 /10
1	801	17 40 21.1	-42 17 41.7	68	12.757	205.4	137		--	9	0	0	2.15			
2	802	17 39 4.4	-42 17 46.7	59	14.869	201.0	110		--	-13	0	0	2.56			
3	803	17 37 32.3	-42 17 53.3	45	17.483	197.1	34		--	-23	0	0	3.02			
4	804	17 35 52.1	-42 17 55.8	32	20.429	194.3	64		--	58	20					
5	805	17 33 49.7	-42 18 1.6	22	24.060	191.7	25		--	-22	0	0	4.72			
6	806	17 33 33.4	-42 24 5.4	61	24.756	166.4	45	UNIT ?	--	8	20					
7	807	17 32 2.6	-42 24 9.9	52	27.503	167.5	122		--	10	0	0	4.54			
8	808	17 30 32.1	-42 24 12.1	43	30.240	168.5	90	TAPE GRD?	--	-23	1	0	6.36			
9	809	17 28 6.3	-42 24 19.2	40	34.679	169.6	19		--	-23	2					
10	810	17 26 40.3	-42 24 21.1	36	37.293	170.3	78		--	9	0	0	6.36			
11	811	17 24 16.5	-42 24 32.2	34	41.708	170.9	49		--	-16	6	0	7.23			
12	812	17 22 21.6	-42 24 26.7	31	45.174	171.8	30		--	-12	0	0	7.72			
13	813	17 20 5.2	-42 24 29.4	31	49.340	172.4	128	TAPE GRD?	--	-22	2	0	8.51			
14	888	17 18 2.1	-42 23 13.3	4	52.862	175.3	92	TAPE GRD?	--	-15	2	0	9.20			
15	889	17 15 54.3	-42 22 25.8	3	56.690	177.1	39		--	-7	0	0	9.88			
16	890	17 14 1.1	-42 22 2.1	2	60.136	177.9	108		--	-28	0					
17	891	17 12 14.2	-42 20 18.7	3	63.387	180.8	28		--	-21	3/16					
18	892	17 10 25.4	-42 21 8.7	2	66.729	179.5	24		--	3	0	0	11.52			
19	893	17 9 11.1	-42 21 36.6	2	69.025	178.8	98		--	-51	2					
20	894	17 8 22.2	-42 21 53.6	2	70.541	178.4	79		--	14	0	0	12.15			

DATA FOR ONE TEAM-SHOT

SAUDI ARABIA 1978
SHOT NUMBER 17 TEAM 3
SHOT POINT 5
SHOT TIME: 53: 1:15: 0.014

	LOC	LATITUDE	LONGITUDE	ELEV	DIST(KM)	AZIM	UNIT	NOTES	FOOTAGE	CHRON	TAPE GRADE	CALIBRATION			
												REC GRD	FIRST ARRIVAL	AMP VAL	CH /10
1	578	19 0 32.1	-42 43 19.9	1705	142.633	16.2	106		--	-40	0				
2	580	18 58 45.7	-42 43 17.7	1729	139.462	16.6	113		--	-6	0				
3	581	18 57 11.5	-42 43 22.5	1745	136.716	17.0	100		--	-39	0				
4	582	18 55 9.7	-42 43 5.5	1795	132.973	17.3	89		--	12	0				
5	583	18 53 36.4	-42 43 47.0	1837	130.596	18.1	48		--	-5	0				
6	585	18 51 10.6	-42 45 20.7	1799	127.230	20.0	130		--	-60	0				
7	587	18 49 40.0	-42 46 9.9	1811	125.109	21.0	133		--	-52	0				
8	589	18 47 6.9	-42 47 29.3	1811	121.588	22.9	87		--	106	1				
9	590	18 45 34.1	-42 47 48.9	1807	119.177	23.6	96		--	-46	17				
10	592	18 43 38.7	-42 47 39.3	1821	115.806	24.2	75		--	-36	0				
11	593	18 42 18.4	-42 47 13.0	1830	113.227	24.4	112		--	-43	2				
12	595	18 40 46.0	-42 45 52.1	1849	109.657	23.9	121		--	44	3/24				
13	597	18 38 17.4	-42 44 3.5	1835	104.181	23.3	103		--	-50	0				
14	599	18 37 22.2	-42 41 34.0	1831	100.945	21.4	66		--	161	0	0	16.33		
15	600	18 36 25.1	-42 40 41.8	1853	98.751	20.9	83		--	-67	0	0	15.83		
16	602	18 34 28.5	-42 39 43.2	1886	94.775	20.7	58		--	-47	0				
17	604	18 33 34.5	-42 38 6.4	1910	92.238	19.4	10		--	39	0	0	14.62		
18	605	18 33 33.1	-42 36 43.4	1945	91.420	18.0	125		--	158	0	1	14.14		
19	607	18 32 26.0	-42 35 8.3	1983	88.615	16.7	77		--	57	0	0	14.07		
20	608	18 31 24.1	-42 35 14.7	2039	86.839	17.1			--	--	20				

DATA FOR ONE TEAM-SHOT

SAUDI ARABIA 1978
 SHOT NUMBER 17 TEAM 4
 SHOT POINT 5
 SHOT TIME: 53: 1:15: 0.014

	LOC	LATITUDE	LONGITUDE	ELEV	DIST(KM)	AZIM	UNIT	NOTES	FOOTAGE	CHRON	TAPE GRADE	REC GRD	FIRST ARRIVAL	CALIBRATION AMP VAL CH	100 /10
1	609	18 29 54.8	-42 35 37.2	2000	84.410	18.1	51		--	--	1				
2	610	18 28 56.6	-42 35 49.5	1997	82.815	18.8	17		--	37	0	0	13.21		
3	611	18 28 24.7	-42 35 46.9	2000	81.860	18.9	85		--	--	0	0	13.00		
4	612	18 27 54.9	-42 35 26.1	2026	80.791	18.7	18		--	-2	0	1	12.76		
5	613	18 27 10.4	-42 35 14.8	2029	79.068	18.8	129		--	-5	0				
6	614	18 25 59.0	-42 34 58.6	2003	76.838	19.0	22		--	-25	6	1	12.05		
7	615	18 24 50.1	-42 35 23.4	1985	75.086	20.1	70		--	--	1				
8	616	18 24 0.6	-42 34 6.4	2050	72.895	18.8	139		--	-16	0	0	11.51		
9	617	18 22 53.0	-42 33 57.3	2063	70.844	19.1	131		--	-37	0	0	11.28		
10	618	18 21 20.4	-42 33 38.0	2087	67.971	19.5	93		--	-19	0	0	10.80		
11	619	18 20 24.5	-42 33 27.9	2076	66.253	19.7			--	--	20				
12	620	18 19 19.0	-42 33 15.9	2122	64.238	20.0	136		--	58	0	1	10.27		
13	621	18 18 12.6	-42 33 9.0	2109	62.254	20.5	40		--	249	0				
14	623	18 14 56.7	-42 32 31.9	2067	56.243	21.6	60		--	-16	0				
15	624	18 12 30.3	-42 32 2.0	2280	51.742	22.6	35		--	-22	0	1	8.44		
16	955	18 11 15.3	-42 31 46.3	2276	49.438	23.1	124	612 H	--	8	0	1	8.01		
17	926	16 33 0.0	-42 2 47.0	1	140.070	193.2	115	TM 1 LOC	--	98	0				
18	928	16 28 43.0	-41 57 4.0	1	150.321	196.3	101	TM 1 LOC	--	-23	0				
19	929	16 25 41.0	-41 53 30.0	1	157.549	198.0	107	TM 1 LOC	--	-34	0				
20	930	16 25 24.0	-41 52 34.0	1	158.563	198.5	119	TM 1 LOC	--	-48	0				

DATA FOR ONE TEAM-SHOT

SAUDI ARABIA 1978
 SHOT NUMBER 17 TEAM 5
 SHOT POINT 5
 SHOT TIME: 53: 1:15: 0.014

	LOC	LATITUDE	LONGITUDE	ELEV	DIST(KM)	AZIM	UNIT	NOTES	FOOTAGE	CHRON	TAPE GRADE	REC GRD	FIRST ARRIVAL	CALIBRATION AMP VAL CH	100 /10
1	956	18 9 19.6	-42 29 54.0	2013	44.900	21.0	145	613 H	--	96	0				
2	957	18 8 1.9	-42 29 47.0	1968	42.601	21.9	146	614 H	--	136	0				
3	958	18 5 37.1	-42 28 45.7	1621	37.798	21.9	94	615 H	--	125	0				
4	959	18 5 20.9	-42 28 1.5	1567	36.866	20.3	15	616 H	--	101	0	0	5.99		
5	960	18 4 6.5	-42 26 55.8	1740	34.066	18.6	76	617 H	--	143	0	0	5.59		
6	961	18 2 18.6	-42 24 6.2	1109	29.564	11.4	12	618 H	--	96	0	0	4.90		
7	962	18 0 28.1	-42 22 33.4	659	25.772	6.9	36	619 H	--	86	0	0	4.24		
8	963	17 58 22.5	-42 22 8.1	658	21.851	6.2	118	620 H	--	120	0	0	3.59		
9	964	17 56 5.7	-42 21 26.6	536	17.552	3.8	56	621 H	--	107	0				
10	965	17 55 19.9	-42 23 1.2	622	16.581	13.7	99	622 H	--	100	0				
11	966	17 53 54.5	-42 23 7.5	441	14.099	17.0	71	623 H	--	308	0				
12	967	17 52 5.4	-42 23 13.1	412	10.997	23.0	88	624 H	--	89	1				
13	968	17 50 28.5	-42 21 40.5	480	7.317	12.3	63	625 H	--	84	0	0	1.25		
14	626	17 49 8.9	-42 21 56.4	229	5.120	23.4	14		--	-130	0				
15	627	17 47 56.0	-42 20 52.0	207	2.464	3.1	97		--	-59	0	0	0.42		
16	697	17 45 39.2	-42 20 29.4	152	1.825	196.9	69		--	-7	0	0	0.36		
17	698	17 44 28.8	-42 19 54.0	131	4.214	201.9	73		--	-5	17				
18	699	17 43 59.4	-42 18 39.9	116	6.107	218.0	104		--	-27	0	0	1.13		
19	700	17 43 27.0	-42 17 42.1	93	7.97	223.2	43		--	113	0	0	1.43		
20	800	17 41 33.8	-42 17 37.9	136	10.838	211.0	72		--	-4	0				

DATA FOR ONE TEAM-SHOT

SAUDI ARABIA 1978
SHOT NUMBER 18 TEAM 1
SHOT POINT 4
SHOT TIME: 53: 4:30: 0.013

	LOC	LATITUDE	LONGITUDE	ELEV	DIST(KM)	AZIM	UNIT	NOTES	FOOTAGE	CHRON	TAPE GRADE	REC GRD	FIRST ARRIVAL	CALIBRATION		
														AMP	VAL	CH
1	895	17 6 37.3	-42 21 41.7	2	332.361	185.3	3		--	-6	0					
2	896	17 5 55.1	-42 21 42.6	1	333.657	185.3	53		--	-22	6					
3	897	17 4 9.2	-42 21 54.4	1	336.883	185.2	65		--	-56	0					
4	898	17 2 49.1	-42 22 24.2	1	339.271	185.0	132		--	-23	6					
5	899	17 1 54.0	-42 22 22.0	1	340.973	185.0	120		--	-31	25					
6	900	17 1 4.0	-42 21 52.0	1	342.587	185.1	32		--	-43	1					
7	905	16 53 45.0	-42 17 29.0	1	356.833	186.1	74		--	-17	0					
8	906	16 52 43.0	-42 17 45.0	1	358.688	186.0	31		--	-228	0					
9	907	16 51 29.0	-42 17 32.0	1	361.001	186.1	105		--	-27	0					
10	908	16 44 38.0	-42 13 14.0	1	374.471	187.0	62		--	-34	1					
11	909	16 44 14.0	-42 12 19.0	1	375.405	187.2	55		--	19	0					
12	910	16 43 25.0	-42 11 50.0	1	377.014	187.3	26		--	0	0					
13	911	16 43 1.0	-42 10 50.0	5	377.976	187.6	52		--	-98	0					
14	912	16 42 5.0	-42 10 29.0	10	379.772	187.7	38		--	9	6					
15	913	16 41 18.0	-42 10 19.0	10	381.250	187.7	82		--	-54	1					
16	914	16 39 23.0	-42 10 8.0	14	384.814	187.6	68		--	12	0					
17	915	16 38 6.0	-42 9 42.0	15	387.272	187.7	44		--	9	0					
18	916	16 37 1.0	-42 9 36.0	17	389.286	187.7	143		--	-15	0					
19	917	16 36 1.0	-42 9 18.0	5	391.193	187.7	142		--	124	0					
20	925	16 34 24.0	-42 3 30.0	1	395.647	189.2	23		--	98	1					

DATA FOR ONE TEAM-SHOT

SAUDI ARABIA 1978
 SHOT NUMBER 18 TEAM 2
 SHOT POINT 4
 SHOT TIME: 53: 4:30: 0.013

	LOC	LATITUDE	LONGITUDE	ELEV	DIST(KM)	AZIM	UNIT	NOTES	FOOTAGE	CHRON	TAPE GRADE	REC GRD	FIRST ARRIVAL	CALIBRATION AMP VAL CH	100 /10
1	801	17 40 21.1	-42 17 41.7	68	271.053	188.0	137		--	9	0				
2	802	17 39 4.4	-42 17 46.7	59	273.380	187.9	110		--	-13	0				
3	803	17 37 32.3	-42 17 53.3	45	276.173	187.8	34		--	-23	20				
4	804	17 35 52.1	-42 17 55.8	32	279.230	187.7	64		--	58	0				
5	805	17 33 49.7	-42 18 1.6	22	282.958	187.5	25		--	-22	0				
6	806	17 33 33.4	-42 24 5.4	61	282.269	185.4	45	UNIT ?	--	8	20				
7	807	17 32 2.6	-42 24 9.9	52	285.047	185.3	122		--	10	6				
8	808	17 30 32.1	-42 24 12.1	43	287.827	185.2	90		--	-23	1				
9	809	17 28 6.3	-42 24 19.2	40	292.293	185.1	19		--	-23	2				
10	810	17 26 40.3	-42 24 21.1	36	294.934	185.1	78		--	9	0	2	43.64		
11	811	17 24 16.5	-42 24 32.2	34	299.332	184.9	49		--	-16	6	2	42.60		
12	812	17 22 21.6	-42 24 26.7	31	302.880	184.9	30		--	-12	0				
13	813	17 20 5.2	-42 24 29.4	31	307.074	184.8	128		--	-22	2				
14	888	17 18 2.1	-42 23 13.3	4	311.053	185.2	92		--	-15	2				
15	889	17 15 54.3	-42 22 25.8	3	315.111	185.4	39		--	-7	0				
16	890	17 14 1.1	-42 22 2.1	2	318.657	185.4	108		--	-28	0				
17	891	17 12 14.2	-42 20 18.7	3	322.240	185.9	28		--	-21	0				
18	892	17 10 25.4	-42 21 8.7	2	325.438	185.6	24		--	3	0				
19	893	17 9 11.1	-42 21 36.6	2	327.645	185.4	98		--	-51	2	2	40.60		
20	894	17 8 22.2	-42 21 53.6	2	329.103	185.3	79		--	14	0	1	40.70		

DATA FOR ONE TEAM-SHOT

SAUDI ARABIA 1978
 SHOT NUMBER 18 TEAM 3
 SHOT POINT 4
 SHOT TIME: 53: 4:30: 0.013

	LOC	LATITUDE	LONGITUDE	ELEV	DIST(KM)	AZIM	UNIT	NOTES	FOOTAGE	CHRON	TAPE GRADE	REC GRD	FIRST ARRIVAL	CALIBRATION		
														AMP	VAL	CH
1	578	19 0 32.1	-42 43 19.9	1705	120.087	176.4	106		--	-40	0	1	19.38			
2	580	18 58 45.7	-42 43 17.7	1729	123.364	176.6	113		--	-6	0					
3	581	18 57 11.5	-42 43 22.5	1745	126.276	176.6	100		--	-39	0	0	19.71			
4	582	18 55 9.7	-42 43 5.5	1795	130.006	176.9	89		--	12	0					
5	583	18 53 36.4	-42 43 47.0	1837	132.951	176.4	48		--	-5	0	1	20.98			
6	585	18 51 10.6	-42 45 20.7	1799	137.636	175.4	130		--	-60	0					
7	587	18 49 40.0	-42 46 9.9	1811	140.546	174.9	133		--	-52	0	2	22.66			
8	589	18 47 6.9	-42 47 29.3	1811	145.471	174.2	87		--	106	1					
9	590	18 45 34.1	-42 47 48.9	1807	148.382	174.1	96		--	-46	17					
10	592	18 43 38.7	-42 47 39.3	1821	151.898	174.3	75		--	-36	0	1	24.80			
11	593	18 42 18.4	-42 47 13.0	1830	154.296	174.7	112		--	-43	2					
12	595	18 40 46.0	-42 45 52.1	1849	156.940	175.6	121		--	44	0	1	25.80			
13	597	18 38 17.4	-42 44 3.5	1835	161.316	176.9	103		--	-50	3/28					
14	599	18 37 22.2	-42 41 34.0	1831	162.844	178.5	66		--	161	0					
15	600	18 36 25.1	-42 40 41.8	1853	164.573	179.0	83		--	-67	0	0	25.99			
16	602	18 34 28.5	-42 39 43.2	1886	168.154	179.6	58		--	-47	0	0	27.13			
17	604	18 33 34.5	-42 38 6.4	1910	169.827	180.6	10		--	39	0	0	27.57			
18	605	18 33 33.1	-42 36 43.4	1945	169.912	181.4	125		--	158	0					
19	607	18 32 26.0	-42 35 8.3	1983	172.072	182.3	37	UNIT 77	--	57	22		27.70			
20	608	18 31 24.1	-42 35 14.7	2039	173.976	182.2			--	--	20					

DATA FOR ONE TEAM-SHOT

SAUDI ARABIA 1978
 SHOT NUMBER 18 TEAM 4
 SHOT POINT 4
 SHOT TIME: 53: 4:30: 0.013

	LOC	LATITUDE	LONGITUDE	ELEV	DIST(KM)	AZIM	UNIT	NOTES	FOOTAGE	CHRON	TAPE GRADE	CALIBRATION			
												REC GRD	FIRST ARRIVAL	AMP VAL CH	100 /10
1	609	18 29 54.8	-42 35 37.2	2000	176.706	182.0	51		--	--	1				
2	610	18 28 56.6	-42 35 49.5	1997	178.493	181.8	17		--	37	0	0	28.90		
3	611	18 28 24.7	-42 35 46.9	2000	179.478	181.8	85		--	--	0	0	29.00		
4	612	18 27 54.9	-42 35 26.1	2026	180.420	182.0	18		--	-2	0	0	29.20		
5	613	18 27 10.4	-42 35 14.8	2029	181.804	182.1	129		--	-5	0				
6	614	18 25 59.0	-42 34 58.6	2003	184.025	182.2	22		--	-25	6	0	29.37		
7	615	18 24 50.1	-42 35 23.4	1985	186.125	182.0	70		--	--	1				
8	616	18 24 0.6	-42 34 6.4	2050	187.746	182.7	139		--	-16	0	0	29.80		
9	617	18 22 53.0	-42 33 57.3	2063	189.842	182.7	131		--	-37	0	0	30.63		
10	618	18 21 20.4	-42 33 38.0	2087	192.727	182.8	93		--	-19	0	2	30.98		
11	619	18 20 24.5	-42 33 27.9	2076	194.465	182.9			--	--	20				
12	620	18 19 19.0	-42 33 15.9	2122	196.504	183.0	136		--	58	17				
13	621	18 18 12.6	-42 33 9.0	2109	198.562	183.0	40		--	249	0				
14	623	18 14 56.7	-42 32 31.9	2067	204.662	183.2	60		--	-16	0				
15	624	18 12 30.3	-42 32 2.0	2280	209.227	183.4	35		--	-22	0	2	34.79		
16	955	18 11 15.3	-42 31 46.3	2276	211.567	183.5	124	612 H	--	8	0				
17	926	16 33 0.0	-42 2 47.0	1	398.410	189.3	115	TM 1 LOC	--	98	0				
18	928	16 28 43.0	-41 57 4.0	1	407.951	190.5	101	TM 1 LOC	--	-23	0				
19	929	16 25 41.0	-41 53 30.0	1	414.650	191.2	107	TM 1 LOC	--	-34	0				
20	930	16 25 24.0	-41 52 34.0	1	415.485	191.4	119	TM 1 LOC	--	-48	0				

DATA FOR ONE TEAM-SHOT

SAUDI ARABIA 1978
SHOT NUMBER 18 TEAM 5
SHOT POINT 4
SHOT TIME: 53: 4:30: 0.013

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	LOC	LATITUDE	LONGITUDE	ELEV	DIST(KM)	AZIM	UNIT	NOTES	FOOTAGE	CHRON	TAPE GRADE	CALIBRATION			
												REC GRD	FIRST ARRIVAL	AMP VAL	CH 100 /10
1	956	18 9 19.6	-42 29 54.0	2013	215.354	184.3	145	613 H	--	96	0	2	34.05		
2	957	18 8 1.9	-42 29 47.0	1968	217.763	184.3	146	614 H	--	136	0				
3	958	18 5 37.1	-42 28 45.7	1621	222.362	184.7	94	615 H	--	125	0				
4	959	18 5 20.9	-42 28 1.5	1567	222.969	185.0	15	616 H	--	101	1/16				
5	960	18 4 6.5	-42 26 55.8	1740	225.431	185.4	76	617 H	--	143	0	2	35.32		
6	961	18 2 18.6	-42 24 6.2	1109	229.261	186.6	12	618 H	--	96	0	1	35.64		
7	962	18 0 28.1	-42 22 33.4	659	232.973	187.2	36	619 H	--	86	0	0	36.03		
8	963	17 58 22.5	-42 22 8.1	658	236.914	187.2	118	620 H	--	120	0	1	36.20		
9	964	17 56 5.7	-42 21 26.6	536	241.261	187.4	56	621 H	--	107	3/24				
10	965	17 55 19.9	-42 23 1.2	622	242.327	186.7	99	622 H	--	100	0				
11	966	17 53 54.5	-42 23 7.5	441	244.926	186.6	71	623 H	--	308	0				
12	967	17 52 5.4	-42 23 13.1	412	248.257	186.5	88	624 H	--	89	1				
13	968	17 50 28.5	-42 21 40.5	480	251.544	187.0	63	625 H	--	84	0	2	38.09		
14	626	17 49 8.9	-42 21 56.4	229	253.930	186.8	14		--	-130	0				
15	627	17 47 56.0	-42 20 52.0	207	256.393	187.2	97		--	-59	0				
16	697	17 45 39.2	-42 20 29.4	152	260.669	187.2	69		--	-7	0				
17	698	17 44 28.8	-42 19 54.0	131	262.955	187.4	73		--	-5	17				
18	699	17 43 59.4	-42 18 39.9	116	264.142	187.8	104		--	-27	0				
19	700	17 43 27.0	-42 17 42.1	93	265.367	188.2	43		--	113	0				
20	800	17 41 33.8	-42 17 37.9	136	268.844	188.1	72		--	-4	17				

DATA FOR ONE TEAM-SHOT

SAUDI ARABIA 1978
 SHOT NUMBER 19 TEAM 1
 SHOT POINT 6
 SHOT TIME: 53: 5: 0: 0.030

	LOC	LATITUDE	LONGITUDE	ELEV	DIST(KM)	AZIM	UNIT	NOTES	FOOTAGE	CHRON	TAPE GRADE	REC GRD	FIRST ARRIVAL	CALIBRATION		
														AMP	VAL	CH
1	895	17 6 37.3	-42 21 41.7	2	67.782	28.7	3		--	-6	0	0	12.50			
2	896	17 5 55.1	-42 21 42.6	1	66.661	29.3	53		--	-22	6	0	12.53			
3	897	17 4 9.2	-42 21 54.4	1	64.022	31.0	65		--	-56	0	0	12.00			
4	898	17 2 49.1	-42 22 24.2	1	62.400	32.9	132		--	-23	6					
5	899	17 1 54.0	-42 22 22.0	1	60.949	33.7	120		--	-31	0	0	11.45			
6	900	17 1 4.0	-42 21 52.0	1	59.178	33.8	32		--	-43	1					
7	905	16 53 45.0	-42 17 29.0	1	43.649	35.2	74		--	-17	0	0	8.90			
8	906	16 52 43.0	-42 17 45.0	1	42.390	37.2	31		--	-228	0	0	8.73			
9	907	16 51 29.0	-42 17 32.0	1	40.359	38.7	105		--	-27	0	0	8.70			
10	908	16 44 38.0	-42 13 14.0	1	25.796	43.0	62	NO RUN ?	--	-34	1	0	5.70			
11	909	16 44 14.0	-42 12 19.0	1	24.155	41.3	55		--	19	0	0	5.29			
12	910	16 43 25.0	-42 11 50.0	1	22.460	42.2	26		--	0	0	0	4.99			
13	911	16 43 1.0	-42 10 50.0	5	20.735	40.0	52		--	-98	0	0	5.00			
14	912	16 42 5.0	-42 10 29.0	10	19.026	41.9	38		--	9	6	0	4.56			
15	913	16 41 18.0	-42 10 19.0	10	17.768	44.3	82		--	-54	1					
16	914	16 39 23.0	-42 10 8.0	14	15.175	52.7	68		--	12	0	0	3.60			
17	915	16 38 6.0	-42 9 42.0	15	13.205	58.9	44		--	9	0	0	3.08			
18	916	16 37 1.0	-42 9 36.0	17	12.129	66.6	143		--	-15	0	0	2.86			
19	917	16 36 1.0	-42 9 18.0	5	11.007	74.3	142		--	124	0	0	2.23			
20	925	16 34 24.0	-42 3 30.0	1	0.279	90.0	23		--	98	1					

DATA FOR ONE TEAM-SHOT

SAUDI ARABIA 1978
 SHOT NUMBER 19 TEAM 2
 SHOT POINT 6
 SHOT TIME: 53: 5: 0: 0.030

	LOC	LATITUDE	LONGITUDE	ELEV	DIST(KM)	AZIM	UNIT	NOTES	FOOTAGE	CHRON	TAPE GRADE	REC GRD	FIRST ARRIVAL	CALIBRATION AMP VAL CH	100 /10
1	801	17 40 21.1	-42 17 41.7	68	124.835	11.8	137		--	9	0	0	12.15		
2	802	17 39 4.4	-42 17 46.7	59	122.547	12.1	110		--	-13	2				
3	803	17 37 32.3	-42 17 53.3	45	119.809	12.5	34		--	-23	0	0	11.52		
4	804	17 35 52.1	-42 17 55.8	32	116.806	12.9	64		--	58	0				
5	805	17 33 49.7	-42 18 1.6	22	113.160	13.4	25		--	-22	0				
6	806	17 33 33.4	-42 24 5.4	61	115.623	18.6	45	UNIT ?	--	8	0	0	9.88		
7	807	17 32 2.6	-42 24 9.9	52	113.014	19.2	122		--	10	2	0	9.20		
8	808	17 30 32.1	-42 24 12.1	43	110.397	19.7	90		--	-23	2	0	8.51		
9	809	17 28 6.3	-42 24 19.2	40	106.239	20.6	19		--	-23	0	0	7.72		
10	810	17 26 40.3	-42 24 21.1	36	103.776	21.1	78		--	9	0	0	7.23		
11	811	17 24 16.5	-42 24 32.2	34	99.766	22.2	49		--	-16	0	0	6.36		
12	812	17 22 21.6	-42 24 26.7	31	96.428	23.0	30		--	-12	2				
13	813	17 20 5.2	-42 24 29.4	31	92.591	24.0	128		--	-22	1	0	6.36		
14	888	17 18 2.1	-42 23 13.3	4	88.208	23.7	92		--	-15	0	0	4.54		
15	889	17 15 54.3	-42 22 25.8	3	84.031	23.9	39		--	-7	0				
16	890	17 14 1.1	-42 22 2.1	2	80.553	24.4	108		--	-28	0	0	4.72		
17	891	17 12 14.2	-42 20 18.7	3	76.013	23.4	64		--	-21	0				
18	892	17 10 25.4	-42 21 8.7	2	73.579	25.4	24		--	3	0	0	3.02		
19	893	17 9 11.1	-42 21 36.6	2	71.893	26.8	98		--	-51	0	0	2.56		
20	894	17 8 22.2	-42 21 53.6	2	70.788	27.7	79		--	14	0	0	2.15		

DATA FOR ONE TEAM-SHOT

SAUDI ARABIA 1978
SHOT NUMBER 19 TEAM 3
SHOT POINT 6
SHOT TIME: 53: 5: 0: 0.030

	LOC	LATITUDE	LONGITUDE	ELEV	DIST(KM)	AZIM	UNIT	NOTES	FOOTAGE	CHRON	TAPE GRADE	CALIBRATION			
												REC GRD	FIRST ARRIVAL	AMP	VAL CH 100 /10
1	578	19 0 32.1	-42 43 19.9	1705	279.852	14.7	106		--	-40	0				
2	580	18 58 45.7	-42 43 17.7	1729	276.659	14.9	113		--	-6	0				
3	581	18 57 11.5	-42 43 22.5	1745	273.884	15.0	100		--	-39	0				
4	582	18 55 9.7	-42 43 5.5	1795	270.121	15.1	89		--	12	0				
5	583	18 53 36.4	-42 43 47.0	1837	267.665	15.6	48		--	-5	0				
6	585	18 51 10.6	-42 45 20.7	1799	264.091	16.4	130		--	-60	0				
7	587	18 49 40.0	-42 46 9.9	1811	261.820	16.9	133		--	-52	0				
8	589	18 47 6.9	-42 47 29.3	1811	257.998	17.7	87		--	106	1				
9	590	18 45 34.1	-42 47 48.9	1807	255.444	18.0	96		--	-46	17				
10	592	18 43 38.7	-42 47 39.3	1821	251.971	18.2	75		--	-36	0				
11	593	18 42 18.4	-42 47 13.0	1830	249.373	18.2	112		--	-43	2				
12	595	18 40 46.0	-42 45 52.1	1849	245.927	17.9	121		--	44	0				
13	597	18 38 17.4	-42 44 3.5	1835	240.588	17.5	103		--	-50	3/28				
14	599	18 37 22.2	-42 41 34.0	1831	237.675	16.6	66		--	161	0	2	35.20		
15	600	18 36 25.1	-42 40 41.8	1853	235.551	16.4	83		--	-67	0	2	35.48		
16	602	18 34 28.5	-42 39 43.2	1886	231.613	16.2	58		--	-47	0	2	35.46		
17	604	18 33 34.5	-42 38 6.4	1910	229.231	15.6	10		--	39	0				
18	605	18 33 33.1	-42 36 43.4	1945	228.546	15.0	125		--	158	0				
19	607	18 32 26.0	-42 35 8.3	1983	225.833	14.5	77		--	57	0	1	34.04		
20	608	18 31 24.1	-42 35 14.7	2039	224.029	14.7			--	--	20				

DATA FOR ONE TEAM-SHOT

SAUDI ARABIA 1978
 SHOT NUMBER 19 TEAM 4
 SHOT POINT 6
 SHOT TIME: 53: 5: 0: 0.030

	LOC	LATITUDE	LONGITUDE	ELEV	DIST(KM)	AZIM	UNIT	NOTES	FOOTAGE	CHRON	TAPE GRADE	CALIBRATION			
												REC GRD	FIRST ARRIVAL	AMP VAL CH	100 /10
1	609	18 29 54.8	-42 35 37.2	2000	221.533	15.0	51		--	--	1				
2	610	18 28 56.6	-42 35 49.5	1997	219.889	15.2	17		--	37	0	1	33.70		
3	611	18 28 24.7	-42 35 46.9	2000	218.921	15.3	85		--	--	0	1	33.32		
4	612	18 27 54.9	-42 35 26.1	2026	217.871	15.2	18		--	-2	0	2	33.03		
5	613	18 27 10.4	-42 35 14.8	2029	216.460	15.2	129		--	-5	0	2	33.70		
6	614	18 25 59.0	-42 34 58.6	2003	214.208	15.2	22		--	-25	6				
7	615	18 24 50.1	-42 35 23.4	1985	212.349	15.6	70		--	--	1				
8	616	18 24 0.6	-42 34 6.4	2050	210.276	15.1	139		--	-16	0	1	31.80		
9	617	18 22 53.0	-42 33 57.3	2063	208.192	15.2	131		--	-37	0	1	31.47		
10	618	18 21 20.4	-42 33 38.0	2087	205.283	15.2	93		--	-19	0				
11	619	18 20 24.5	-42 33 27.9	2076	203.540	15.3			--	--	20				
12	620	18 19 19.0	-42 33 15.9	2122	201.495	15.3	136		--	58	17				
13	621	18 18 12.6	-42 33 9.0	2109	199.464	15.4	40		--	249	0				
14	623	18 14 56.7	-42 32 31.9	2067	193.343	15.6	60		--	-16	0				
15	624	18 12 30.3	-42 32 2.0	2280	188.752	15.7	35		--	-22	0	1	28.90		
16	955	18 11 15.3	-42 31 46.3	2276	186.397	15.7	124	612 H	--	8	0				
17	926	16 33 0.0	-42 2 47.0	1	2.768	201.1	115	TM 1 LOC	--	98	0				
18	928	16 28 43.0	-41 57 4.0	1	15.316	226.8	101	TM 1 LOC	--	-23	0				
19	929	16 25 41.0	-41 53 30.0	1	23.774	227.5	107	TM 1 LOC	--	-34	0				
20	930	16 25 24.0	-41 52 34.0	1	25.363	229.1	119	TM 1 LOC	--	-48	0				

DATA FOR ONE TEAM-SHOT

SAUDI ARABIA 1978
SHOT NUMBER 19 TEAM 5
SHOT POINT 6
SHOT TIME: 53: 5: 0: 0.030

	LOC	LATITUDE	LONGITUDE	ELEV	DIST(KM)	AZIM	UNIT	NOTES	FOOTAGE	CHRON	TAPE GRADE	CALIBRATION			
												REC GRD	FIRST ARRIVAL	AMP VAL	100 CH /10
1	956	18 9 19.6	-42 29 54.0	2013	182.077	15.0	145	613 H	--	96	0	0	28.20		
2	957	18 8 1.9	-42 29 47.0	1968	179.706	15.2	146	614 H	--	136	0				
3	958	18 5 37.1	-42 28 45.7	1621	174.919	15.0	94	615 H	--	125	0				
4	959	18 5 20.9	-42 28 1.5	1567	174.105	14.6	15	616 H	--	101	1/16				
5	960	18 4 6.5	-42 26 55.8	1740	171.400	14.2	76	617 H	--	143	0				
6	961	18 2 18.6	-42 24 6.2	1109	167.001	12.8	12	618 H	--	96	0				
7	962	18 0 28.1	-42 22 33.4	659	163.082	12.1	36	619 H	--	86	0	2	24.79		
8	963	17 58 22.5	-42 22 8.1	658	159.134	12.1	118	620 H	--	120	0				
9	964	17 56 5.7	-42 21 26.6	536	154.745	12.0	56	621 H	--	107	3/24				
10	965	17 55 19.9	-42 23 1.2	622	153.969	13.1	99	622 H	--	100	0				
11	966	17 53 54.5	-42 23 7.5	441	151.446	13.4	71	623 H	--	308	0	2	22.89		
12	967	17 52 5.4	-42 23 13.1	412	148.207	13.8	88	624 H	--	89	1				
13	968	17 50 28.5	-42 21 40.5	480	144.666	13.0	63	625 H	--	84	0				
14	626	17 49 8.9	-42 21 56.4	229	142.379	13.4	14		--	-130	0				
15	627	17 47 56.0	-42 20 52.0	207	139.757	12.9	97		--	-59	0				
16	697	17 45 39.2	-42 20 29.4	152	135.489	13.0	69		--	-7	0				
17	698	17 44 28.8	-42 19 54.0	131	133.139	12.8	73		--	-5	17				
18	699	17 43 59.4	-42 18 39.9	116	131.784	12.0	104		--	-27	0	2	20.37		
19	700	17 43 27.0	-42 17 42.1	93	130.462	11.3	43		--	113	0				
20	800	17 41 33.8	-42 17 37.9	136	127.012	11.6	72		--	-4	0				

REFERENCES

- Blank, H. R., Healy, J. H., Roller, J. C., Lamson, R. L., Fisher, F.,
McClearn, R., and Allen, S., 1979, USGS/DGMR seismic refraction profile,
Kingdom of Saudi Arabia field operations, instrumentation and initial
results: U.S. Geological Survey Saudi Arabian Project Report 259, 49 p.
- Greenwood, W. R., Anderson, R. E., Fleck, R. J., and Roberts, R. J.,
1977, Precambrian geologic history and plate tectonic evolution of the
Arabian Shield: U.S. Geological Survey Saudi Arabian Project Report 222,
97 p.
- Lamson, R. L., and Blank, H. R., 1978, USGS/DGMR geophysical
investigations in Saudi Arabia: seismic refraction profile, status
report no. 2, with a section on operational strategy by J. H. Healy:
U.S. Geological Survey Arabian Project Report 234, 41 p.

