East

USGS

LINE YMP-3
YUCCA MOUNTAIN

FINAL STACK

FIELD PARAMETERS

RECORDED BY:	NORTHERN GEOPHYSICAL	CREW:	110
RECORDED FOR:	U.S.G.S.	DATE:	NOV 1994
INSTRUMENT:	I/O SYSTEM TWO	FIELD FILTERS:	3/12 - 135/190 HZ/DB
NOTCH FILTER:	OUT	TAPE FORMAT:	SEG-D
RECORD LENGTH:	8 SEC	SAMPLE RATE:	2 MS

SPREAD

1 ← 19717.5 → 240 241 242 ←82.5→SP←82.5→ 481 ← 19717.5 →

PROGRESSION →

SOURCE INFORMATION		CABLE INFORMATION	
SOURCE TYPE 1:	DYNAMITE(DEEP HOLE)	GP INTERVAL:	82.5 FT
SP INTERVAL:	330 FT	NO OF TRACES:	481
HOLE DEPTH:	200 FT	ELEMENTS/TR:	24
CHARGE SIZE:	200 LB		
SOURCE TYPE 2:	VIBROSEIS		
SWEEP FREQUENCY:	10-50 HZ		
SWEEP LENGTH:	12 SECONDS		
SOURCE TYPE 3:	POULTER	SOURCE TYPE 4:	MINIHOLE
CHARGE SIZE:	40 LBS	CHARGE SIZE:	2 LB /HOLE
CHARGE SPREAD:	82.5 FT	CHARGE SPREAD:	5 HOLES OVER 182.5 FT

PROCESSING SEQUENCE

1. REFORMAT
   SEG-D TO PROMAX
2. GEOMETRY DEFINITION
   TRACE EDIT
3. STATICS
   WEATHERING STATICS REMOVED
   DATUM STATICS REMOVED
   PROC DATUM = FLOATING
   VE = 5000 FT/SEC
4. 20-FILTER
   APPLY NMO
   20-FILTER
   UNAPPLY NMO

5/8. VELOCITY ANALYSIS
   CONTINUOUS VELOCITY STACKS

6/9. NMO CORRECTION & MUTE
   50 % STRETCH MUTE

7/10. RESIDUAL STATICS
   SURFACE CONSISTENT
   WINDOW 0.5 - 2.3 SEC
   PREFILT 3/10-35/50 HZ

11. SCALING
   500 MS SLIDING GATE

12. DATUM CORRECTION
   FINAL DATUM = SEA LEVEL

13. CDP STACK

14. FILTER
   BAND PASS
   5-10-40-60 HZ

15. SCALING
   500 MS SLIDING GATE

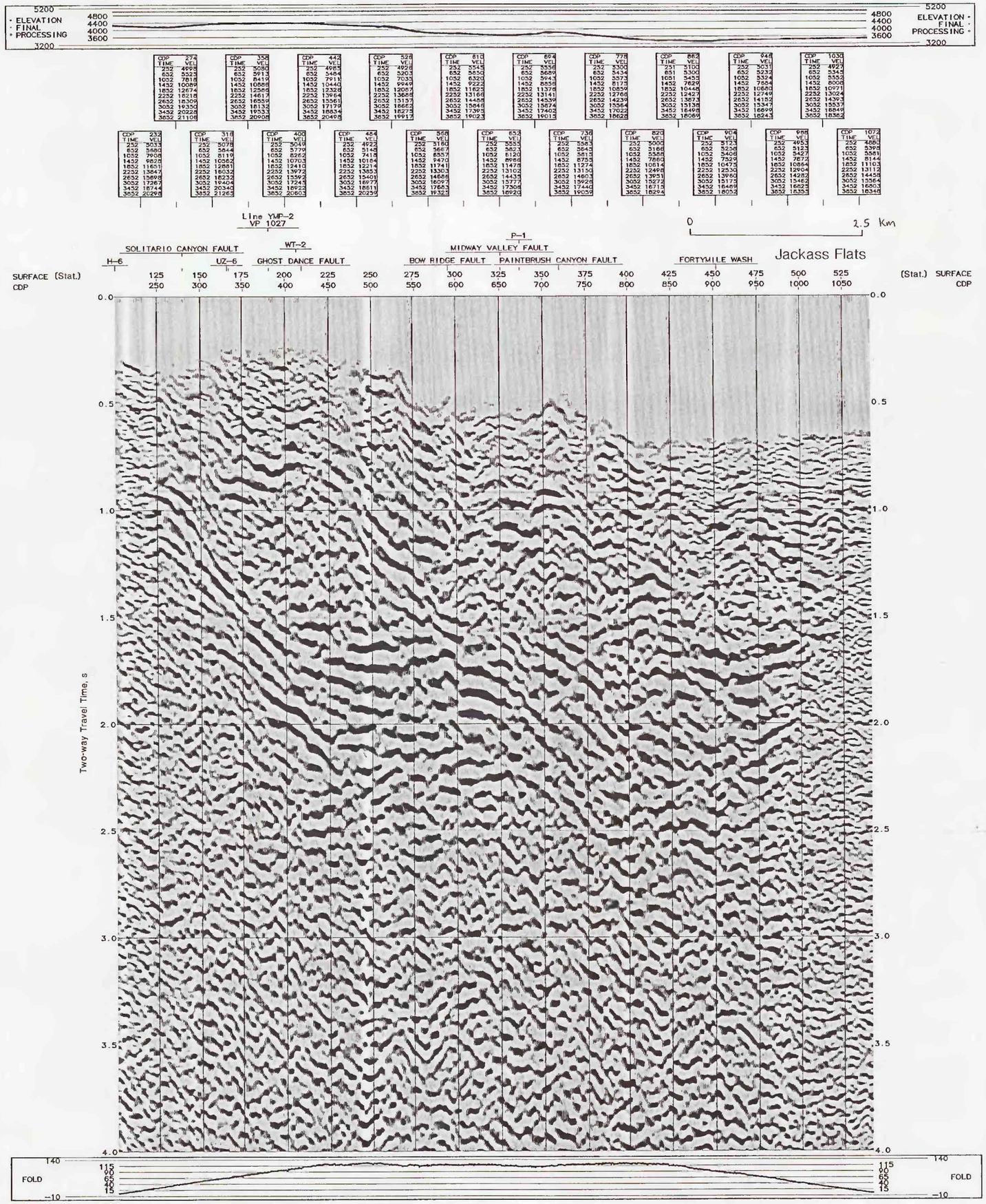
16. FX DECONVOLUTION

PROCESSED BY
TEXSEIS, INC.
HOUSTON, TEXAS

DISPLAY PARAMETERS

Mon Aug 7 15:51:29 1995
Traces/Inches = 50
Bias Percent = 0
Gain Set = 0.45
Gain Constant = 2137.24

Static Shift = 0
Inches/Second = 5
Clip Limit = 4
RMS Amplitude = 0.467894



U.S. Geological Survey Open-File Report 96-28

Figure 11. Final, uninterpreted section for seismic reflection Line 3. The processing used to generate this section is described in the text and Table 10. 40 stations (80 CDPs) equal one km.

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SWEEP FREQUENCY: 10-50 HZ
SWEEP LENGTH: 12 SECONDS
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CHARGE SIZE: 40 LBS
CHARGE SPREAD: 82.5 FT

CABLE INFORMATION
GP INTERVAL: 82.5 FT
NO OF TRACES: 481
ELEMENTS/TR: 24
SOURCE TYPE 4: MINIHOLE
CHARGE SIZE: 2 LB /HOLE
CHARGE SPREAD: 5 HOLES OVER 182.5 FT

PROCESSING SEQUENCE

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   DATUM STATICS REMOVED
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   SURFACE CONSISTENT
   WINDOW 0.5 - 2.3 SEC
   PREFILT 3/10-35/50 HZ
11. SCALING
   500 MS SLIDING GATE
12. DATUM CORRECTION
   FINAL DATUM = SEA LEVEL
13. CDP STACK
14. FILTER
   BAND PASS
   5-10-40-60 HZ
15. SCALING
   500 MS SLIDING GATE
16. FX DECONVOLUTION

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