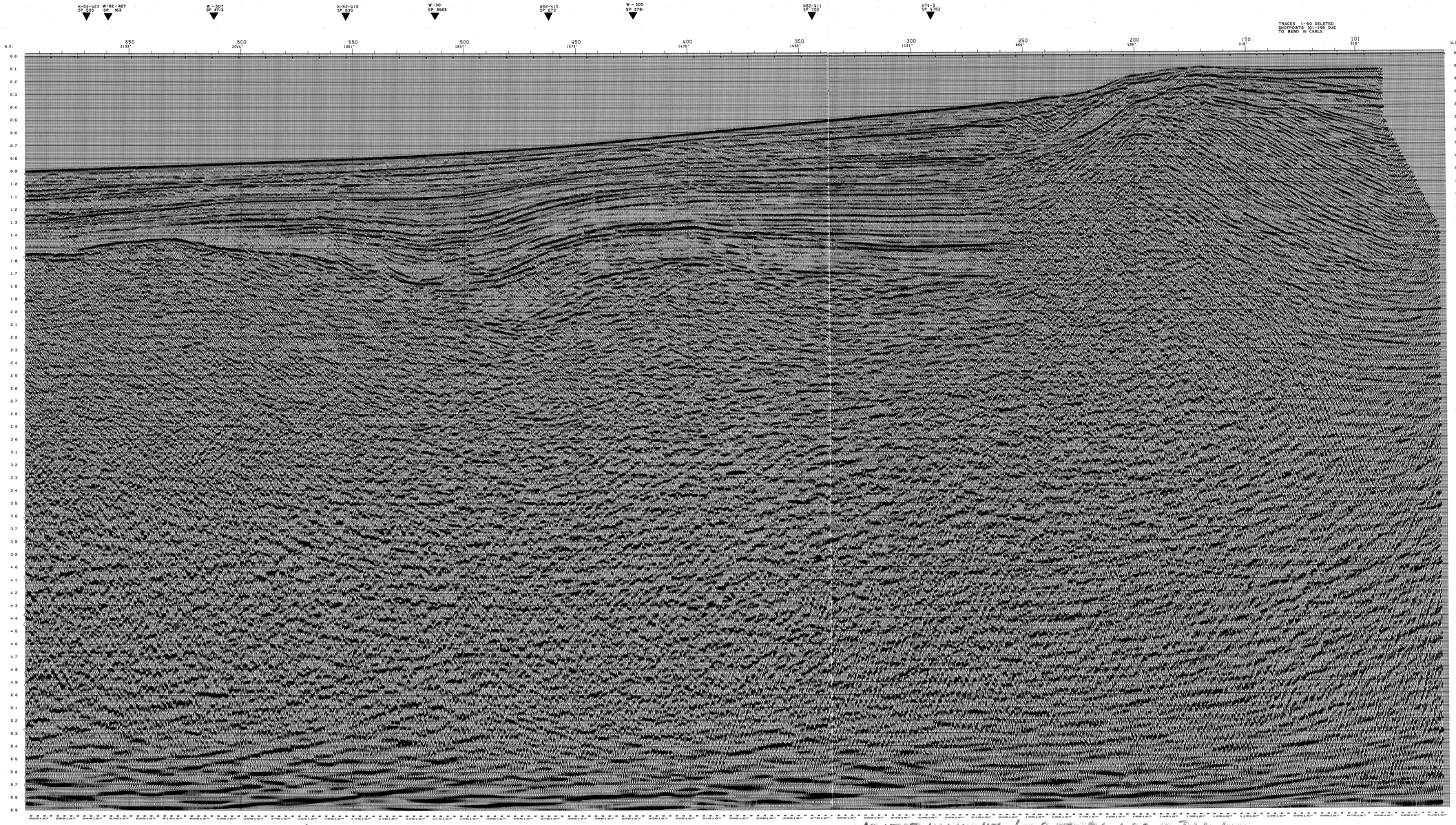
W-82-456
S.P. 696 - 101
SIGNATURE DECONVOLUTION
MIGRATION BY THE FINITE
DIFFERENCE METHOD
1 X 6000% MIG.TVF

NORTHEAST



WESTERN GEOPHYSICAL CO.

OFFSHORE CALIFORNIA

N. SANTA MARIA / POINT SUR) #132

SHOT BY WESTERN GEOPHYSICAL ' W. INLET ' PARTY 88 MAR 1982
PROCESSED BY WESTERN GEOPHYSICAL (HDC II) GROUP 32 JUN 1982
USGS # 82-278 JOB #0120
PLAYBACK REEL NO. 150050

RECORDING DATA

SOURCE

ENERGY SOURCE	AIRGUN
NUMBER OF GUNS	12
GUN DEPTH	20 FEET
FIRING INTERVAL	82
SHOT POINT INTERVAL	82 FEET
DISTANCE OF SOURCE TO ANTENNA	231 FEET
GUN VOLUME	1000 CU.IN
GUN PRESSURE	4500 PSI

INSTRUMENTS

SYSTEM	DFS V
AMPLIFIER	I.F.P.
FILTER	5.5-128 HZ
SAMPLING INTERVAL	2 MSEC
RECORD LENGTH	6.0 SEC

CABLE

TYPE CABLE	STREAMER
CABLE LENGTH	9758 FEET
CABLE DEPTH	35 FEET
LEAD IN	688 FEET
GROUP INTERVAL	82 FEET
NUMBER OF GROUPS RECORDED	120

PROCESSING SEQUENCE AND PARAMETERS

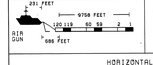
PROCESSING SAMPLING INTERVAL 4 MSEC

1. EDIT
2. DECONVOLVED BEFORE STACK
   - TYPE - MINIMUM PHASE INVERSE FILTER
   - WINDOW LENGTH 3 EQUAL ZONES
   - OVERLAP 20% OF ZONE
   - LENGTH OPERATOR 200 MS
   - PREDICTION DISTANCE 4 MS
3. WEIGHTED NMO STACK 6000 %
4. AGC
5. MIGRATION
6. AGC
7. TIME VARIANT FILTER

FILTER TIME	L.C. (HZ)	H.C.
0.0 SEC	15	50
1.0 SEC	15	50
2.0 SEC	12	45
3.0 SEC	7	35
4.0 SEC	6	30
6.0 SEC	5	25

FILTERS VARY WITH WATER BOTTOM & STRUCTURE

8. AGC



LEGEND

VELOCITY ANALYSIS INTERSECTIONS
W.D. WATER DEPTH
VELAN EVERY 4920 FEET

HORIZONTAL SCALE
120 TRACES EQUAL 1 MILE

POSITIVE REFLECTION COEFFICIENT

SHOTPOINT LOCATION AT ANTENNA
PLAYBACK CORRECTION TO SEA LEVEL DATUM +8 MS

PROPRIETARY DATA OF WESTERN GEOPHYSICAL COMPANY OF AMERICA-NOT TO BE SOLD OR TRADED.

2 of 8 1500 SO WLC W82-456 6000% AIRGUN/HDC 6/24/82 [illegible]

1 of 8 150050 WLC W82-456 6000% 6/24/82 [illegible]