PAGE 01 7/24/81
REEL 0 SHIFT 2
GAIN 010 DB SYSTEM 5
CLIENT WESTERN LINE WC-80-108

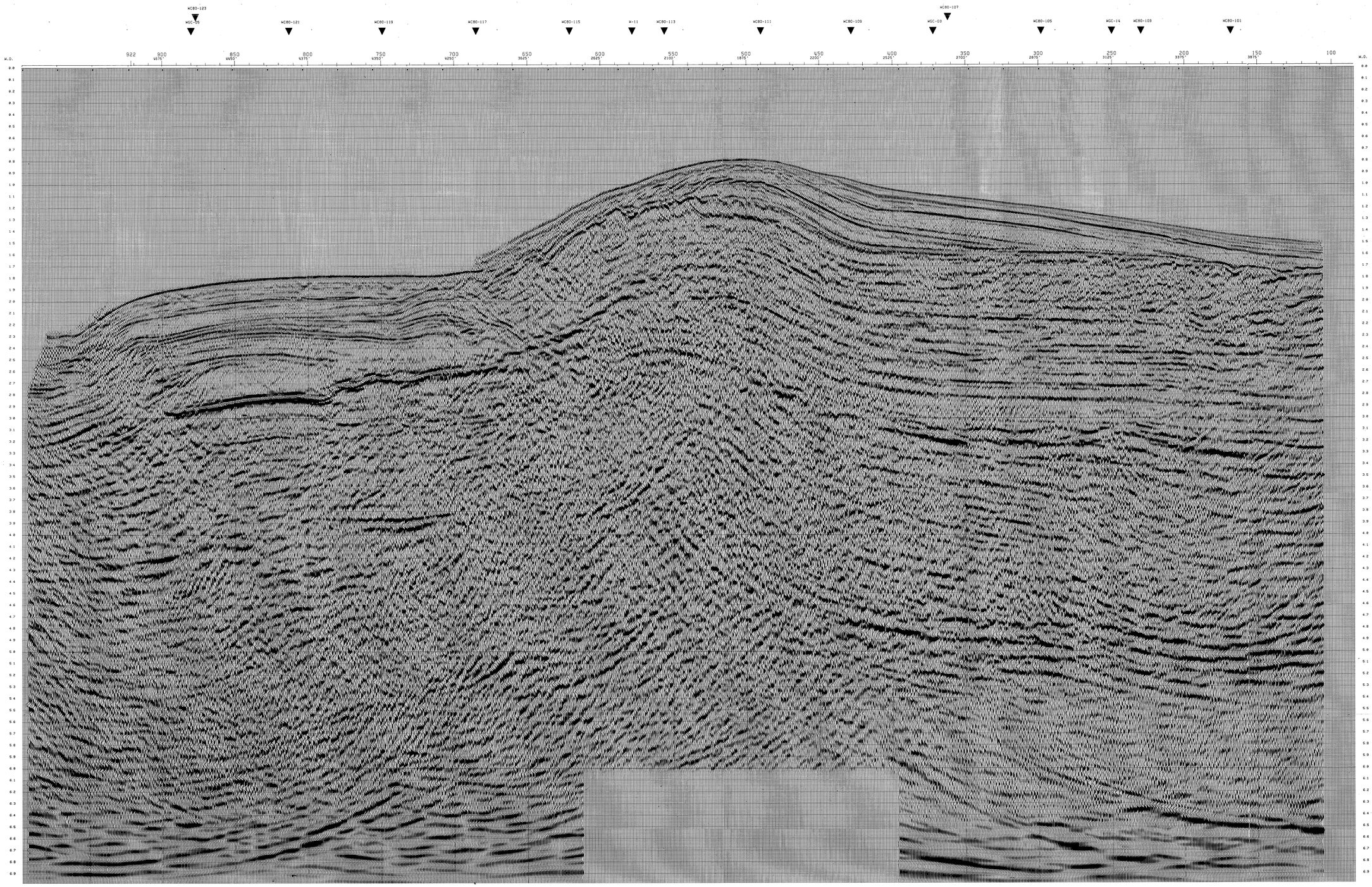
130 Mig.

LINE: WC80-108
S.P. 922 -100

1 X 6400% MIG.TVF

SIGNATURE DECONVOLUTION

MIGRATION BY THE
FINITE DIFFERENCE METHOD
NORTHEAST




# WESTERN GEOPHYSICAL COMPANY

OFFSHORE CALIFORNIA
AREA :SAN NICOLAS

SHOT BY WESTERN GEOPHYSICAL — PARTY 77 JAN 24, 1981
PROCESSED BY WESTERN (WDC) — GROUP 39 JULY 27, 1981
USGS PERMIT NO: CAL80-226
WESTERN AREA NO: 130

## RECORDING DATA

### SOURCE

| | |
|---|---|
| ENERGY SOURCE | AIR GUNS |
| CHARGE SIZE | 540CU.IN. |
| NUMBER OF GUNS | 10 |
| GUN DEPTH | 35 FEET |
| FIRING INTERVAL | 82 FEET |
| SHOT POINT INTERVAL | 82 FEET |
| DISTANCE OF SOURCE TO ANTENNA | 901 FEET |

### INSTRUMENTS

| | |
|---|---|
| SYSTEM | DFS-V |
| AMPLIFIER | I.F.P. |
| FILTER | LS.3-H128 |
| SAMPLING INTERVAL | 2 MS |
| RECORD LENGTH | 6 SECONDS |

### CABLE

| | |
|---|---|
| TYPE CABLE | STREAMER |
| CABLE LENGTH | 10373 FEET |
| CABLE DEPTH | 38 FEET |
| LEAD IN | 758 FEET |
| NUMBER OF GROUPS RECORDED | 96 |
| GROUP INTERVAL : GROUPS 96-65 | 164 FEET |
| GROUP INTERVAL : GROUPS 65-64 | 123 FEET |
| GROUP INTERVAL : GROUPS 64-1 | 82 FEET |

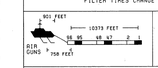
## PROCESSING SEQUENCE AND PARAMETERS

PROCESSING SAMPLING INTERVAL 4 MSEC

1. EDIT
2. SIGNATURE DECONVOLUTION
3. DECONVOLVED BEFORE STACK
   - TYPE - MINIMUM PHASE INVERSE FILTER
   - WINDOW LENGTH 3 EQUAL ZONES
   - OVERLAP 20% OF ZONE
   - LENGTH OPERATOR 240 MS
   - PREDICTION DISTANCE 4 MS
4. NMO STACK 6400 %
5. AGC
6. MIGRATION
7. TIME VARIANT FILTER

| TIME ZONE | | L.C. (HZ) | H.C. |
|---|---|---|---|
| 0.5 | SEC | 10 | 50 |
| 1.5 | SEC | 8 | 40 |
| 2.6 | SEC | 7 | 30 |
| 3.6 | SEC | 6 | 25 |
| 4.4 | SEC | 5 | 25 |
| 5.4 | SEC | 5 | 20 |

FILTER TIMES CHANGE WITH STRUCTURE




LEGEND
W.D. INTERSECTIONS WATER DEPTH

HORIZONTAL SCALE
64 TRACE INTERVALS = 1 MILE

NOTATIONS
COMPRESSION PULSE IS A NEGATIVE NUMBER
SHOTPOINT LOCATION AT ANTENNA
PLAYBACK CORRECTION TO SEA LEVEL DATUM +12 MS
PLAYBACK REEL:039933