Schlumberger

NOBILE 1 * WSS * RUN 1

CSU Field Log

COMPANY: AGIP

WELL: NOBILE 1

FIELD: NOBILE

COUNTRY : ITALIA

LOCATION: LAND SICILY

LATITUDE: 37 00'16"N
LONGITUDE: 02 15'53"E

PERMANENT DATUM: GL
ELEV. OF PERM. DATUM: 810.0 M
LOG MEASURED FROM: RT
8.8 M ABOVE PERM. DATUM
DRLG. MEASURED FROM: RT

ELEVATIONS-
KB: 819.1 M
DF: 818.8 M
GL: 810.0 M

DATE: 3 JUL 86
RUN NO: 1

OTHER SERVICES-
CBL/VDL/GR
PERFO

PROGRAM
TAPE NO:
28.4

DEPTH-DRILLER: 2289.0 M
DEPTH-LOGGER: 2222.0 M
BTM. LOG INTERVAL: 2222.0 M
TOP LOG INTERVAL: 8.8 M

CASING-DRILLER:	517.0 M	2227.0 M
CASING-LOGGER:	517.0 M	
CASING:	13 3/8"	9 5/8"
WEIGHT:	68.0000 LB/F	43.7000 LB/F
BIT SIZE:	17 1/2"	12 1/4"
DEPTH:	520.0 M	2289.0 M

TYPE FLUID IN HOLE: LS
DENSITY: 1200. K/M3
VISCOSITY: 38.0 S
PH: 12.0
FLUID LOSS: 8.8 C3
SOURCE OF SAMPLE: FLOWLINE
RM: AT
RMF: AT
RMC: AT
SOURCE RMF/RMC: /
RM AT BHT: AT 57.3 DEGC
RMF AT BHT: AT 57.3 DEGC
RMC AT BHT: AT 57.3 DEGC

TIME CIRC. STOPPED: 21:00 2/7/86
TIME LOGGER ON BTM.: 10:30 3/7/86

MAX. REC. TEMP: 57.3 DEGC

LOGGING UNIT NO: 2719
LOGGING UNIT LOC: SYR
RECORDED BY: D.LEIN
WITNESSED BY: RIZZO

SEISMIC DATA:

SRD TO GROUND LEVEL: 0 M
SRD TO ROTARY TABLE: 9 M

GUN DEPTH BELOW GL: 3 M
HYDRO DEPTH BELOW GL: 4 M

MAX HOLE DEVIATION: 7 DEG
AZIMUTH OF HOLE DEV: 350 DEG

SOURCE OFFSET DISTANCE: 20 M
SOURCE OFFSET AZIMUTH: 140 DEG

DOWNHOLE GEOPHONE TYPE: WSC-A
SURFACE SENSOR TYPE: HYDROPHONE
PLATFORM TYPE:

JOB TYPE: CHECK SHOT

SOURCE TYPE: AIR GUN
GUN VOLUME: 2×200

REMARKS:

CHLORIDES = 5.2 KPPM.
TOOL RUN ECCENTRALISED.
MAXIMUM DEVIATION = 7 DEGREES.
WELL PLUGGED BACK TO 2220(DRILLER'S DEPTH).
WELL CIRCULATED DURING 1.5 HOURS PRIOR TO LOGGING.

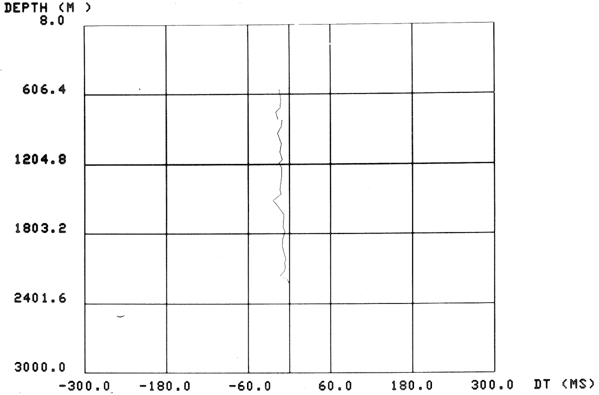
EQUIPMENT NUMBERS-

WST BLUE WSM-AB 770 WDM-B 845

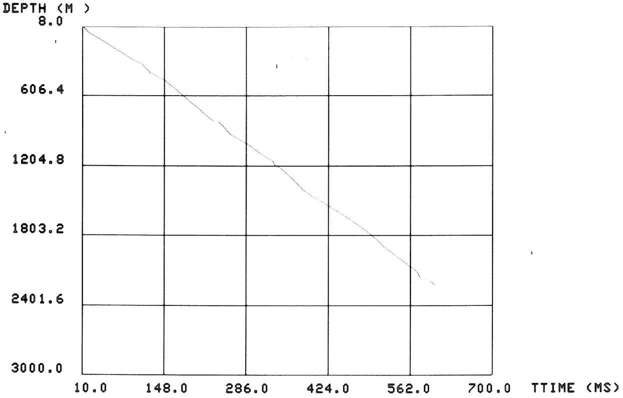
ALL INTERPRETATIONS ARE OPINIONS BASED ON INFERENCES FROM ELECTRICAL OR OTHER MEASUREMENTS AND WE CANNOT, AND DO NOT GUARANTEE THE ACCURACY OR CORRECTNESS OF ANY INTERPRETATIONS, AND WE SHALL NOT, EXCEPT IN THE CASE OF GROSS OR WILLFUL NEGLIGENCE ON OUR PART, BE LIABLE OR RESPONSIBLE FOR ANY LOSS, COSTS, DAMAGES OR EXPENSES INCURRED OR SUSTAINED BY ANYONE RESULTING FROM ANY INTERPRETATION MADE BY ANY OF OUR OFFICERS, AGENTS OR EMPLOYEES. THESE INTERPRETATIONS ARE ALSO SUBJECT TO OUR GENERAL TERMS AND CONDITIONS AS SET OUT IN OUR CURRENT PRICE SCHEDULE.

CP 28.4 FILE 7 03-JUL-86 16:00

WST/SONIC DRIFT CURVE



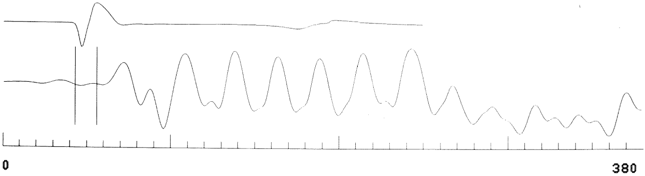
WST DEPTH VS TTIME CURVE



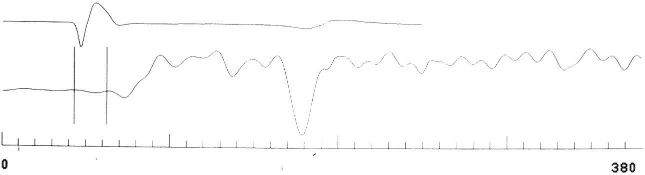
WST DEPTH VS TTIME SUMMARY

STACK NBR	DEPTH (M)	TTIME (MS)
39	8.8	12.9
38	48.0	19.5
37	172.0	58.4
36	284.0	93.1
35	335.0	111.9
34	406.0	124.9
33	467.0	147.7
32	560.0	170.8
31	655.0	192.5
30	725.0	209.4
29	756.0	215.8
28	819.0	231.2
27	827.0	238.2
26	884.0	251.3
25	935.0	260.8
24	1028.0	292.9
23	1090.0	308.5
22	1162.0	331.3
21	1190.0	333.7
20	1230.0	346.1
19	1260.0	352.2
18	1316.0	364.8
17	1409.0	382.0
16	1460.0	396.6
15	1512.0	413.9
14	1640.0	454.1
13	1734.0	480.5
12	1785.0	494.0
11	1839.0	507.2
10	1895.0	517.9
9	1953.0	532.9
8	2021.0	550.7
7	2044.0	555.9
6	2091.0	569.7
5	2125.0	576.3
3	2157.0	578.8
1	2193.0	596.8
1	2222.0	602.3

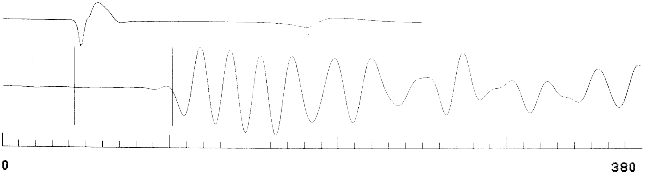
```
STACK # 39 @     8.8 M     7 /3 /86  15 :41    TT =     12.9 MS
        GEOPHONE               .004265  CM/SEC  @    55.0 MS
        SHOTS STACKED : 136 ,137 ,138 ,139 ,140
        FILTER : OFF   - 45
```



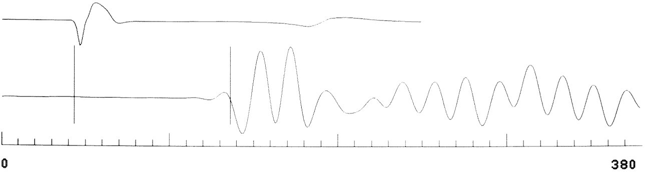
```
STACK # 38 @    48.0 M     7 /3 /86  15 :36   TT =     19.5 MS
         GEOPHONE               .003825  CM/SEC  @    61.5 MS
         SHOTS STACKED : 133 ,134 ,135
         FILTER : OFF   - 45
```



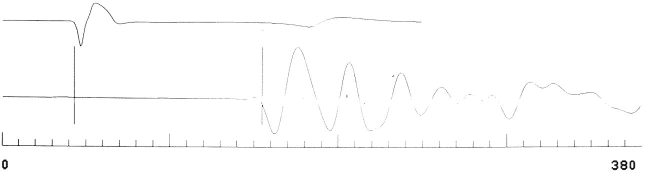
```
STACK # 37 @   172.0 M     7 /3 /86  15 :25   TT =     58.4 MS
         GEOPHONE               .005920  CM/SEC  @   100.5 MS
         SHOTS STACKED : 130 ,131 ,132
         FILTER : OFF   - 45
```



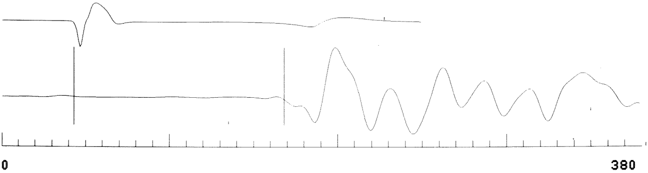
```
STACK # 36 @   284.0 M     7 /3 /86  15 :19   TT =     93.1 MS
         GEOPHONE               .001670  CM/SEC  @   135.2 MS
         SHOTS STACKED : 127 ,128 ,129
         FILTER : OFF   - 45
```



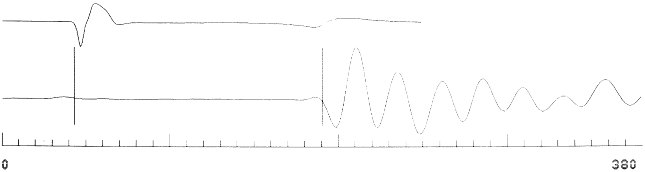
```
STACK # 35 @   335.0 M     7 /3 /86  15 :12   TT =    111.9 MS
         GEOPHONE               .001240  CM/SEC  @   153.9 MS
         SHOTS STACKED : 124 ,125 ,126
         FILTER : OFF   - 45
```



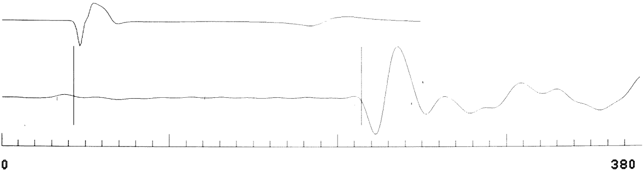
STACK # 34 @ 406.0 M 7 /3 /86 15 :5 TT = 124.9 MS
GEOPHONE .000746 CM/SEC @ 167.0 MS
SHOTS STACKED : 121 ,122 ,123
FILTER : OFF - 45



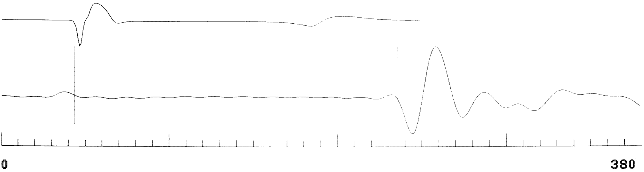
STACK # 33 @ 467.0 M 7 /3 /86 15 :0 TT = 147.7 MS
GEOPHONE .001089 CM/SEC @ 189.7 MS
SHOTS STACKED : 118 ,119 ,120
FILTER : OFF - 45



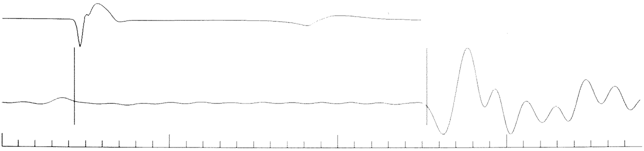
STACK # 32 @ 560.0 M 7 /3 /86 14 :53 TT = 170.8 MS
GEOPHONE .000636 CM/SEC @ 212.9 MS
SHOTS STACKED : 115 ,116 ,117
FILTER : OFF - 45



STACK # 31 @ 655.0 M 7 /3 /86 14 :47 TT = 192.5 MS
GEOPHONE .000519 CM/SEC @ 234.7 MS
SHOTS STACKED : 112 ,113 ,114
FILTER : OFF - 45

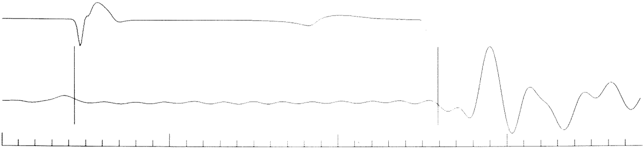


STACK # 30 @ 725.0 M 7 /3 /86 14 :41 TT = 209.4 MS
GEOPHONE .000400 CM/SEC @ 251.7 MS
SHOTS STACKED : 109 ,110 ,111
FILTER : OFF - 45



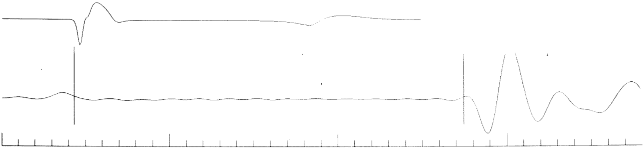
0 380

STACK # 29 @ 756.0 M 7 /3 /86 14 :37 TT = 215.8 MS
GEOPHONE .000273 CM/SEC @ 258.0 MS
SHOTS STACKED : 104 ,105 ,106 ,107 ,108
FILTER : OFF - 45



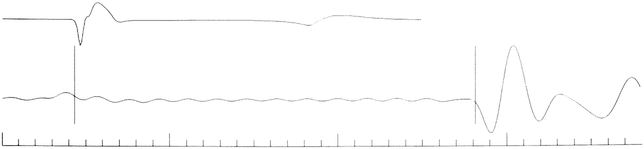
0 380

STACK # 28 @ 819.0 M 7 /3 /86 14 :30 TT = 231.2 MS
GEOPHONE .000374 CM/SEC @ 273.4 MS
SHOTS STACKED : 101 ,102 ,103
FILTER : OFF - 45



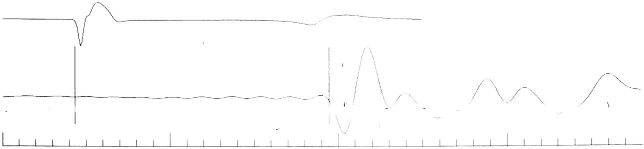
0 380

STACK # 27 @ 827.0 M 7 /3 /86 14 :26 TT = 238.2 MS
GEOPHONE .000360 CM/SEC @ 280.4 MS
SHOTS STACKED : 98 ,99 ,100
FILTER : OFF - 45



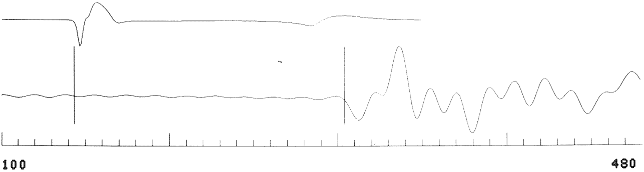
0 380

STACK # 26 @ 884.0 M 7 /3 /86 14 :22 TT = 251.3 MS
GEOPHONE .000325 CM/SEC @ 293.5 MS
SHOTS STACKED : 95 ,96 ,97
FILTER : OFF - 45

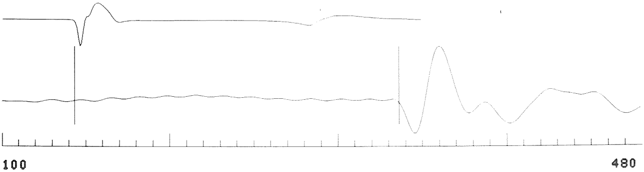


100 480

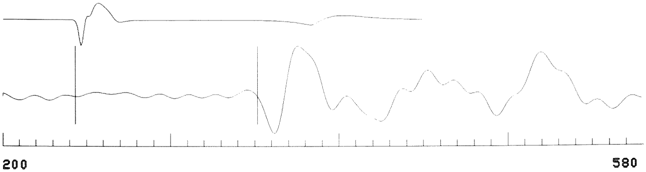
STACK # 25 @ 935.0 M 7 /3 /86 14 :16 TT = 260.8 MS
GEOPHONE .000201 CM/SEC @ 303.0 MS
SHOTS STACKED : 92 ,93 ,94
FILTER : OFF - 45



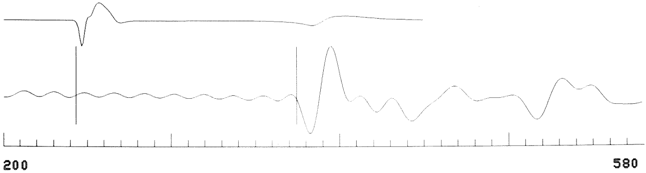
STACK # 24 @ 1028.0 M 7 /3 /86 14 :10 TT = 292.9 MS
GEOPHONE .000216 CM/SEC @ 335.1 MS
SHOTS STACKED : 89 ,90 ,91
FILTER : OFF - 45



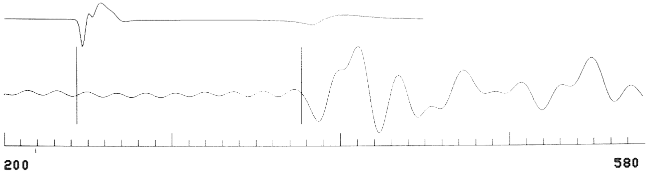
STACK # 23 @ 1090.0 M 7 /3 /86 14 :3 TT = 308.5 MS
GEOPHONE .000151 CM/SEC @ 350.7 MS
SHOTS STACKED : 86 ,87 ,88
FILTER : OFF - 45



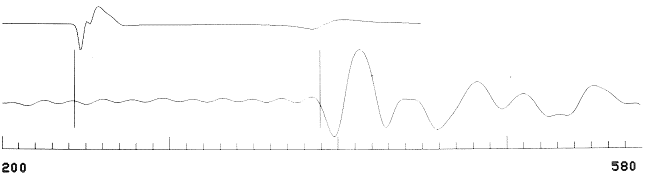
STACK # 22 @ 1162.0 M 7 /3 /86 13 :55 TT = 331.3 MS
GEOPHONE .000222 CM/SEC @ 373.5 MS
SHOTS STACKED : 83 ,84 ,85
FILTER : OFF - 45



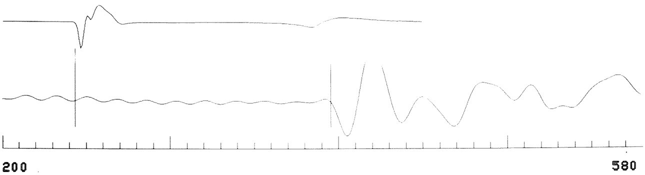
STACK # 21 @ 1190.0 M 7 /3 /86 13 :51 TT = 333.7 MS
GEOPHONE .000124 CM/SEC @ 376.0 MS
SHOTS STACKED : 80 ,81 ,82
FILTER : OFF - 45



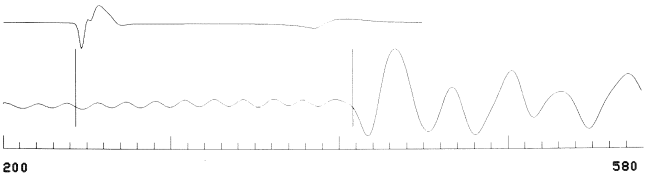
```
STACK # 20 @  1230.0 M    7 /3 /86  13 :46   TT =   346.1 MS
         GEOPHONE         .000171  CM/SEC  @   388.4 MS
         SHOTS STACKED : 77 ,78 ,79
         FILTER : OFF   - 45
```



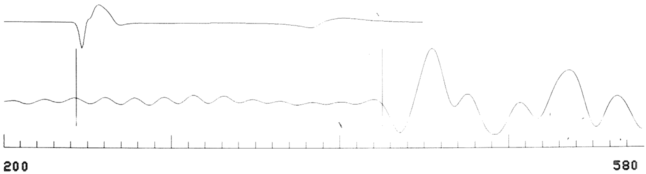
```
STACK # 19 @  1260.0 M    7 /3 /86  13 :40   TT =   352.2 MS
         GEOPHONE         .000173  CM/SEC  @   394.5 MS
         SHOTS STACKED : 74 ,75 ,76
         FILTER : OFF   - 45
```



```
STACK # 18 @  1316.0 M    7 /3 /86  13 :35   TT =   364.8 MS
         GEOPHONE         .000131  CM/SEC  @   407.0 MS
         SHOTS STACKED : 71 ,72 ,73
         FILTER : OFF   - 45
```



```
STACK # 17 @  1409.0 M    7 /3 /86  13 :28   TT =   382.0 MS
         GEOPHONE         .000093  CM/SEC  @   424.1 MS
         SHOTS STACKED : 66 ,67 ,68 ,69 ,70
         FILTER : OFF   - 45
```



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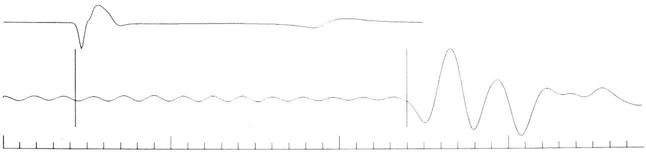
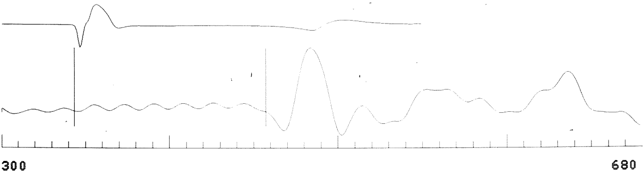
STACK # 16 @  1460.0 M    7 /3 /86  13 :23   TT =   396.6 MS
         GEOPHONE         .000160  CM/SEC  @   438.7 MS
         SHOTS STACKED : 63 ,64 ,65
         FILTER : OFF   - 45
```

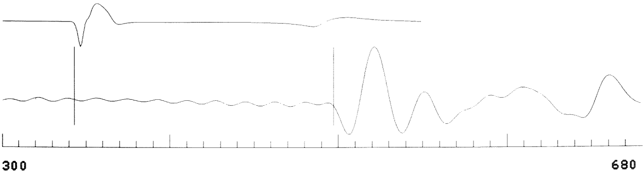


200   580

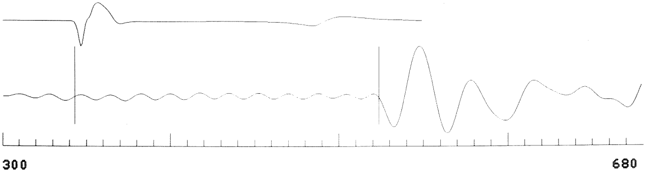
```
STACK # 15 @  1512.0 M     7 /3 /86  13 :17   TT =   413.9 MS
      GEOPHONE              .000092  CM/SEC  @   456.2 MS
      SHOTS STACKED : 58 ,59 ,60 ,61 ,62
      FILTER : OFF   - 45
```



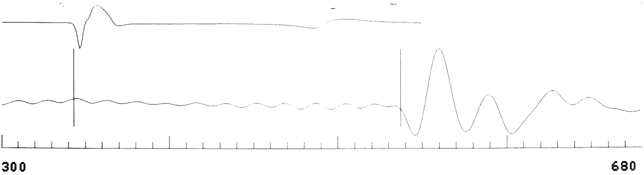
```
STACK # 14 @  1640.0 M     7 /3 /86  13 :10   TT =   454.1 MS
      GEOPHONE              .000162  CM/SEC  @   496.1 MS
      SHOTS STACKED : 55 ,56 ,57
      FILTER : OFF   - 45
```



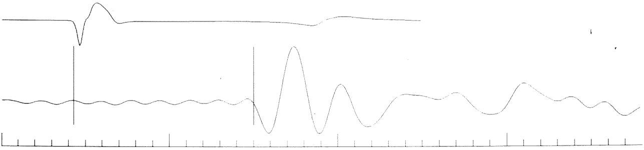
```
STACK # 13 @  1734.0 M     7 /3 /86  13 :3    TT =   480.5 MS
      GEOPHONE              .000134  CM/SEC  @   522.5 MS
      SHOTS STACKED : 52 ,53 ,54
      FILTER : OFF   - 45
```



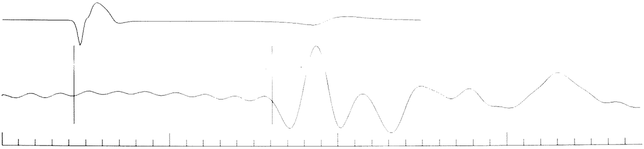
```
STACK # 12 @  1785.0 M     7 /3 /86  12 :58   TT =   494.0 MS
      GEOPHONE              .000145  CM/SEC  @   536.0 MS
      SHOTS STACKED : 49 ,50 ,51
      FILTER : OFF   - 45
```



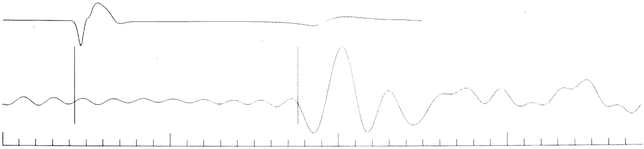
```
STACK # 11 @  1839.0 M     7 /3 /86  12 :52   TT =   507.2 MS
      GEOPHONE              .000121  CM/SEC  @   549.2 MS
      SHOTS STACKED : 44 ,45 ,46 ,47 ,48
      FILTER : OFF   - 45
```



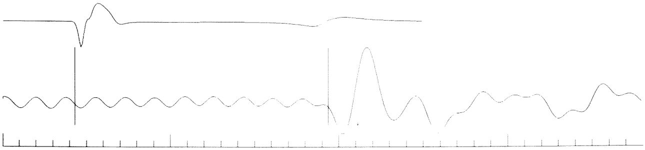
```
STACK # 10 @  1895.0 M    7 /3 /86  12 :45   TT =   517.9 MS
         GEOPHONE           .000114  CM/SEC  @   560.0 MS
         SHOTS STACKED : 41 ,42 ,43
         FILTER : OFF   - 45
```



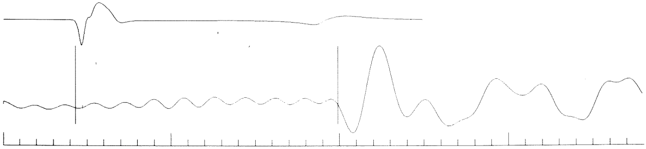
```
STACK # 9 @  1953.0 M    7 /3 /86  12 :40   TT =   532.9 MS
         GEOPHONE           .000101  CM/SEC  @   574.9 MS
         SHOTS STACKED : 38 ,39 ,40
         FILTER : OFF   - 45
```



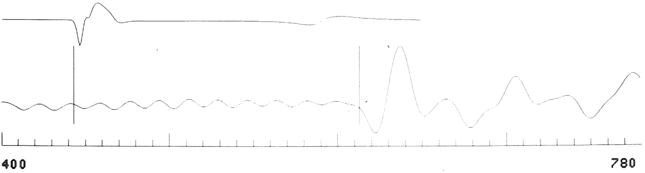
```
STACK # 8 @  2021.0 M    7 /3 /86  12 :35   TT =   550.7 MS
         GEOPHONE           .000110  CM/SEC  @   592.7 MS
         SHOTS STACKED : 33 ,34 ,35 ,36 ,37
         FILTER : OFF   - 45
```



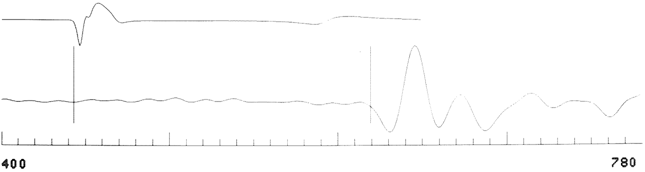
```
STACK # 7 @  2044.0 M    7 /3 /86  12 :30   TT =   555.9 MS
         GEOPHONE           .000091  CM/SEC  @   598.0 MS
         SHOTS STACKED : 28 ,29 ,30 ,31 ,32
         FILTER : OFF   - 45
```



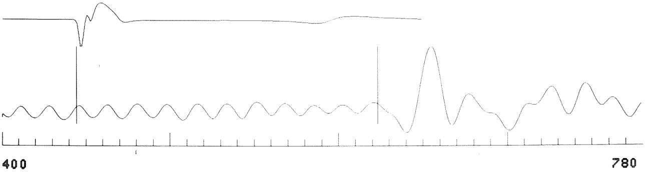
```
STACK # 6 @  2091.0 M     7 /3 /86  12 :24   TT =   569.7 MS
          GEOPHONE          .000087  CM/SEC  @   611.8 MS
          SHOTS STACKED : 22 ;24 ;25 ;26 ;27
          FILTER : OFF   - 45
```



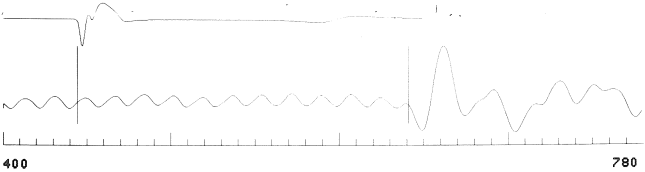
```
STACK # 5 @  2125.0 M     7 /3 /86  12 :15   TT =   576.3 MS
          GEOPHONE          .000084  CM/SEC  @   618.4 MS
          SHOTS STACKED : 15 ;16 ;17 ;18 ;19
          FILTER : OFF   - 45
```



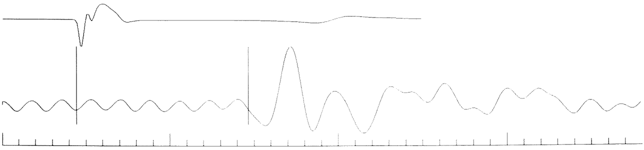
```
STACK # 3 @  2157.0 M     7 /3 /86  12 :4    TT =   578.8 MS
          GEOPHONE          0.0          CM/SEC  @   621.9 MS
          SHOTS STACKED : 6 ;7 ;9 ;10 ;11
          FILTER : OFF   - 45
```



```
STACK # 1 @  2193.0 M     7 /3 /86  11 :48   TT =   596.8 MS
          GEOPHONE          .000094  CM/SEC  @   640.0 MS
          SHOTS STACKED : 1 ;2 ;3 ;4
          FILTER : OFF   - 45
```



```
STACK # 1 @  2222.0 M     7 /3 /86  10 :29   TT =   602.3 MS
          GEOPHONE          .000099  CM/SEC  @   645.5 MS
          SHOTS STACKED : 22 ;23 ;24 ;25 ;26
          FILTER : OFF   - 45
```



500 880

```
                BEFORE SURVEY CALIBRATION SUMMARY

   PERFORMED:     03-JUL-86 09:15
   PROGRAM FILE: WSS    (VERSION    28.4    85/11/11)


  WSTA                  CALIPER CALIBRATION SUMMARY

             MEASURED                          CALIBRATED
           SMALL    LARGE                   SMALL      LARGE         UNITS
   CALI    6.95     13.9                    8.00       12.0           IN

    CP 28.4             FILE    2       03-JUL-86 09:15
```

Schlumberger

NOBILE 1 * WSS * RUN 1

CSU Field Log