CC 23-35-75

Schlumberger

DUAL INDUCTION-SFL 5"

CSU

COMPANY: REICHHOLD ENERGY CORPORATION

WELL: COLUMBIA COUNTY #23-35

RECEIVED - PTLD
JUL 17 1985
DEPT. OF GEOLOGY
& MINERAL INDUS

FIELD: MIST
COUNTY: COLUMBIA
STATE: OREGON
NATION: USA
LOCATION: 896.5'E & 134.5'N OF
W 1/4 CORNER OF
SEC: 35 TWP: 7N RGE: 5W

OTHER SERVICES-
BHC
HDT

PERMANENT DATUM: GL
ELEV. OF PERM. DATUM: 1359.7 '
LOG MEASURED FROM: KB
11.4 ' ABOVE PERM. DATUM
DRLG. MEASURED FROM: KB

ELEVATIONS-
KB: 1371.1 '
DF:
GL: 1359.7 '

PROGRAM
TAPE NO:
24.2
SERVICE
ORDER NO:
432418

DATE: 8 JUN 85
RUN NO: 1

DEPTH-DRILLER: 3593.0 '
DEPTH-LOGGER: 3548.0 '
BTM. LOG INTERVAL: 3542.0 '
TOP LOG INTERVAL: 658.0 '

CASING-DRILLER: 660 '
CASING-LOGGER: 658 '
CASING: 8 5/8"

BIT SIZE: 7 7/8"
DEPTH: 3593 '

TYPE FLUID IN HOLE: LIGNOSULFONATE
DENSITY: 9.1 LB/G
VISCOSITY: 48.0 S
PH: 9.0
FLUID LOSS: 7.4 C3
SOURCE OF SAMPLE: FLOWLINE
RM: 2.890 OHMM AT 58.0 DEGF
RMF: 2.820 OHMM AT 57.0 DEGF
RMC: 1.650 OHMM AT 54.0 DEGF
SOURCE RMF/RMC: MEAS/MEAS
RM AT BHT: 1.823 OHMM AT 96.0 DEGF
RMF AT BHT: 1.752 OHMM AT 96.0 DEGF
RMC AT BHT: .977 OHMM AT 96.0 DEGF

TIME CIRC. STOPPED: 3:45 6/8
TIME LOGGER ON BTM.: 7:20 6/8

MAX. REC. TEMP: 96.0 DEGF

LOGGING UNIT NO: 8057
LOGGING UNIT LOC: SACRAMENTO
RECORDED BY: MAYER
WITNESSED BY: THOMAS

REMARKS:

DIL AND SONIC WERE RUN IN COMBINATION.
FINS AND CMEZ WERE USED FOR CENTRALIZATION.
CHLORIDES: 450PPM
CALIPER IS READING LOW DUE TO HOLE DEVIATION.
LOG WAS RUN AT 1800'/HR TO REDUCE NOISE ON SONIC.

EQUIPMENT NUMBERS-

DIS 567	DIC 552	SLS 252	SLC 1470
MCD 1237	IEM 232	SLS 383	

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.

FILE 103 08-JUN-85 09:22
DATA ACQUIRED 08-JUN-85 08:52

TENS(LB)
10000. 0.0

ILD (OHMM)
.20000 2000.0

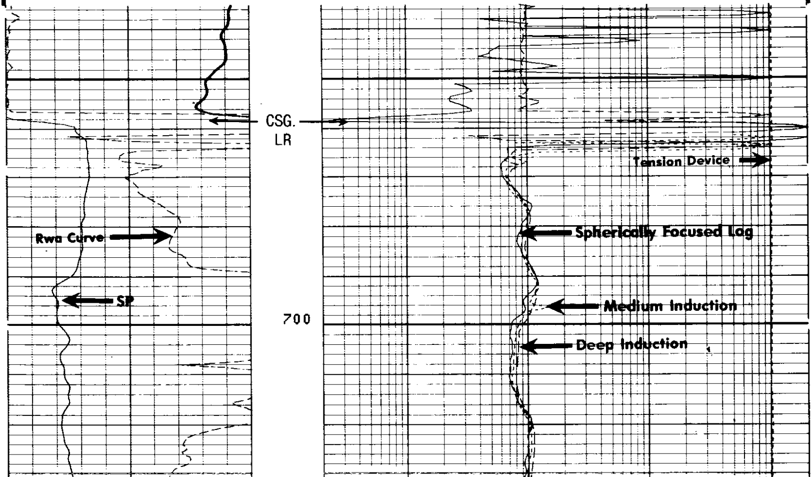
RWA (OHMM)
0.0 3.0000

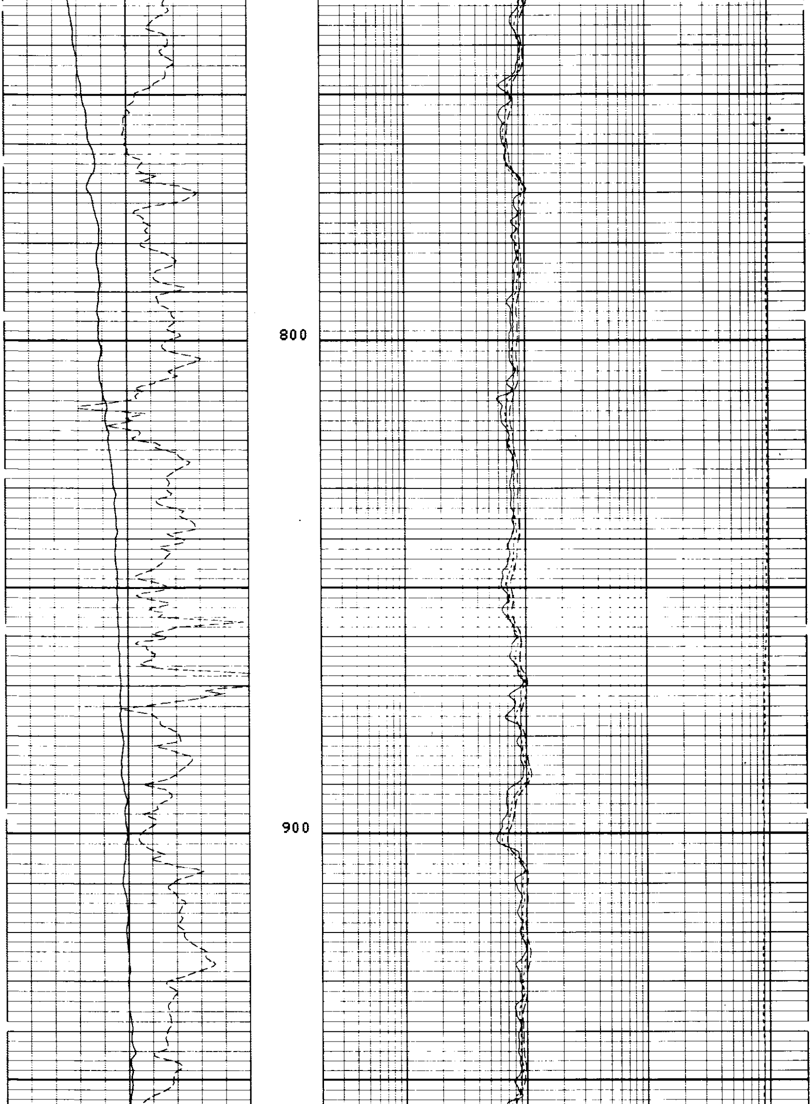
ILM (OHMM)
.20000 2000.0

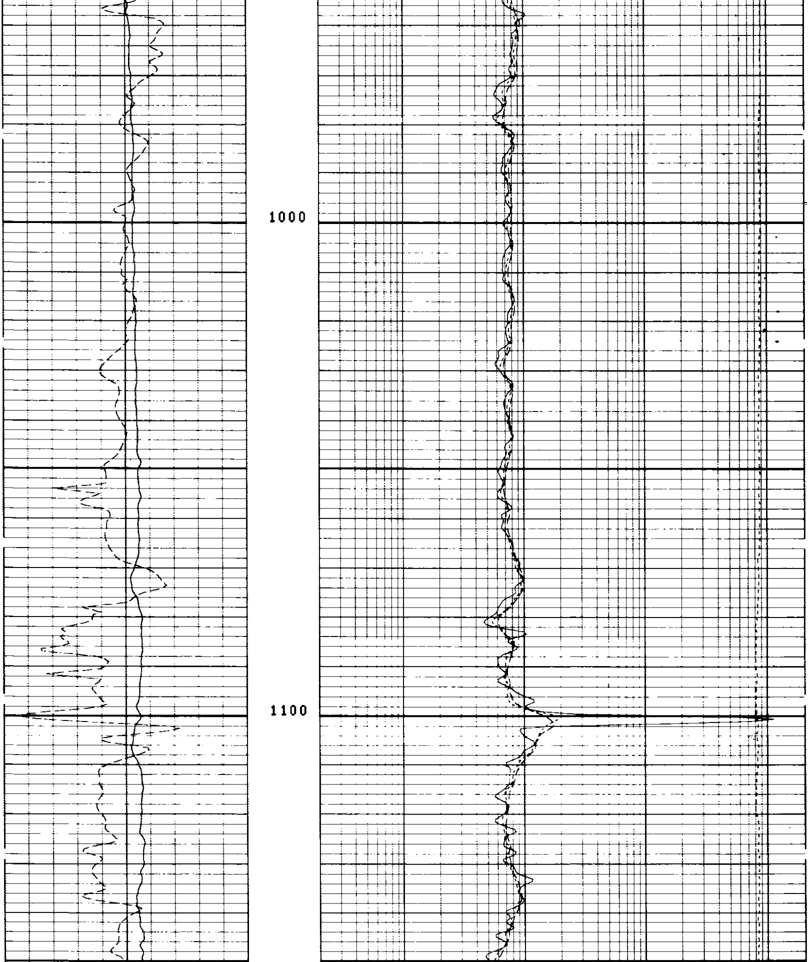
SP (MV)
-100.0 0.0

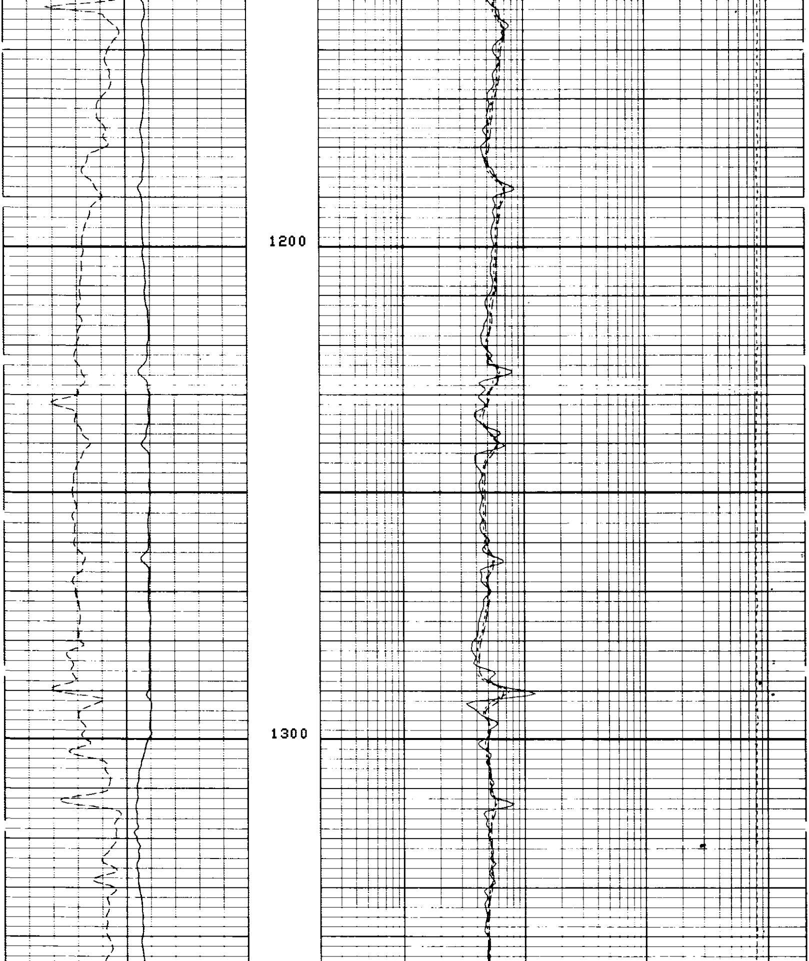
SFLU(OHMM)
.20000 2000.0

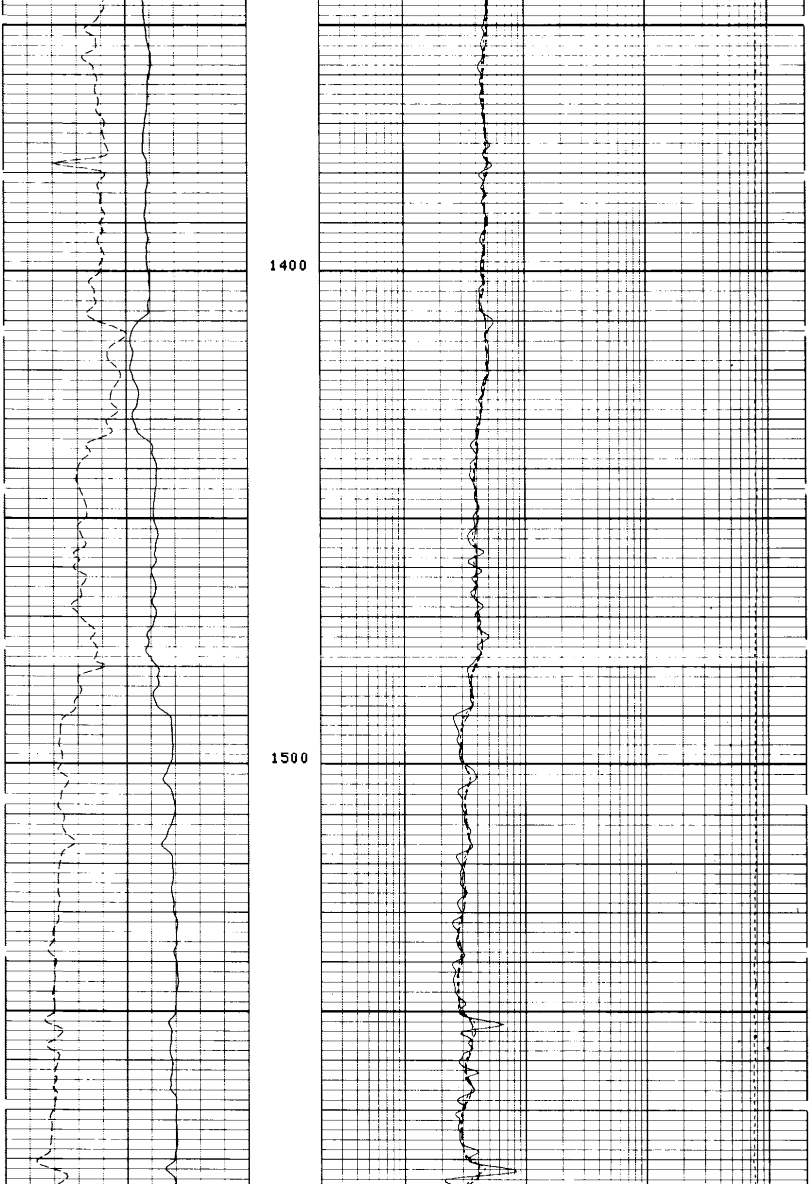
FILE 102 08-JUN-85 09:16
DATA ACQUIRED 08-JUN-85 08:52

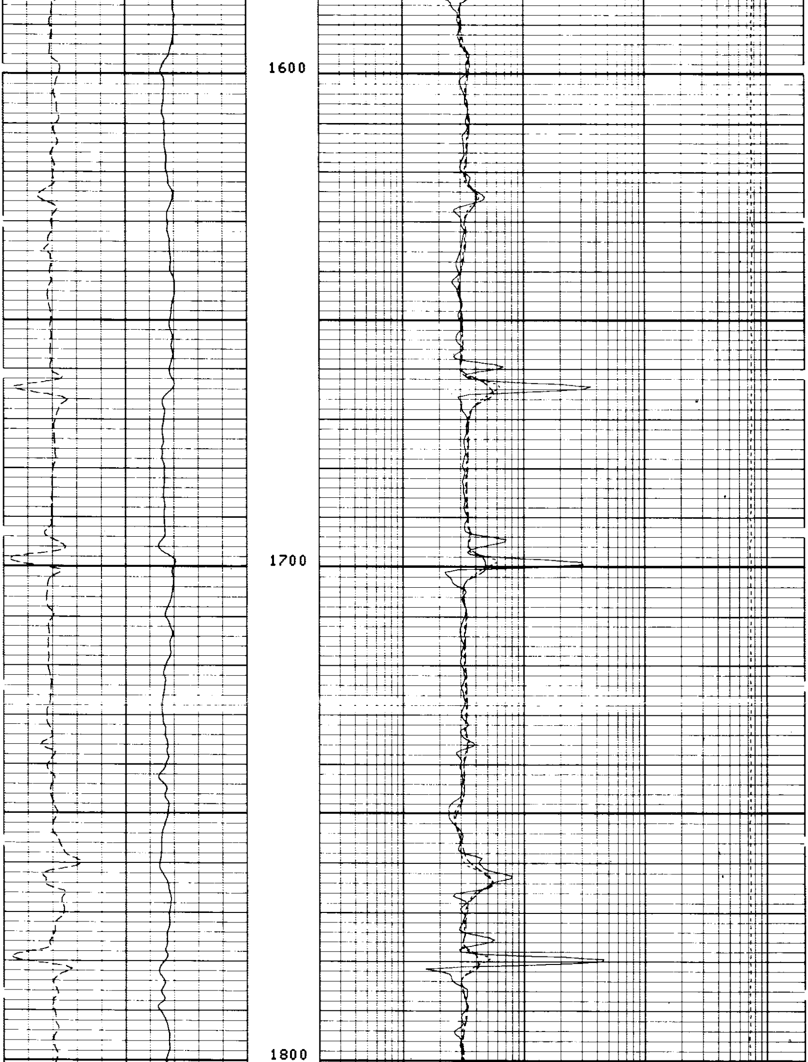


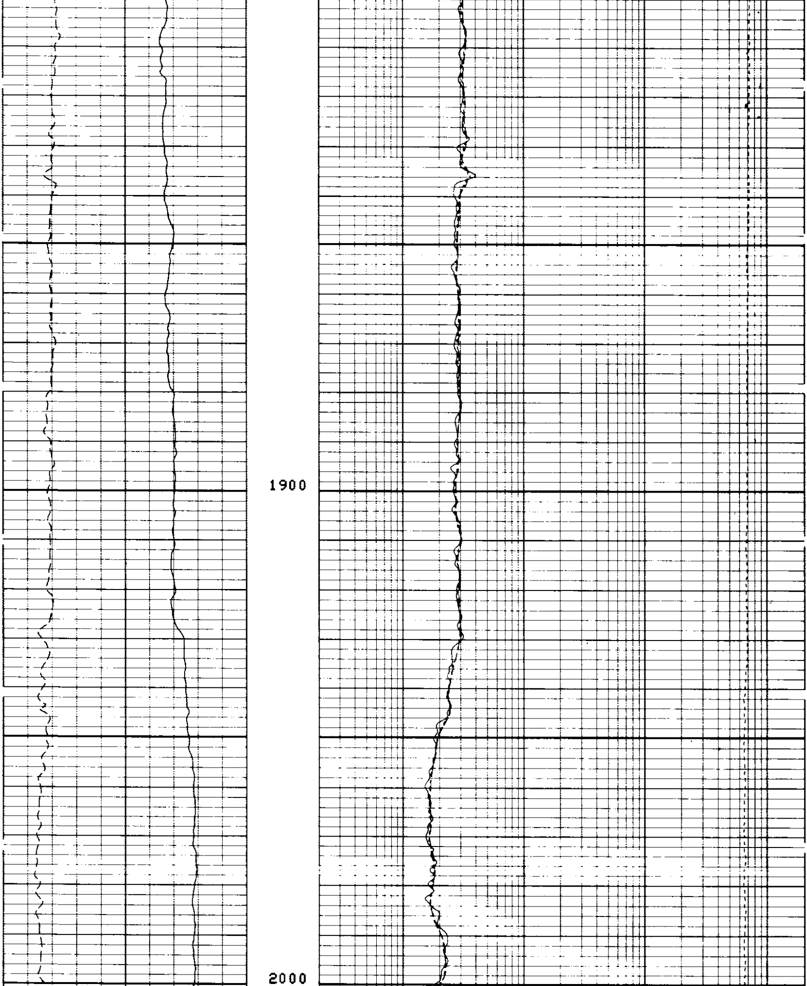


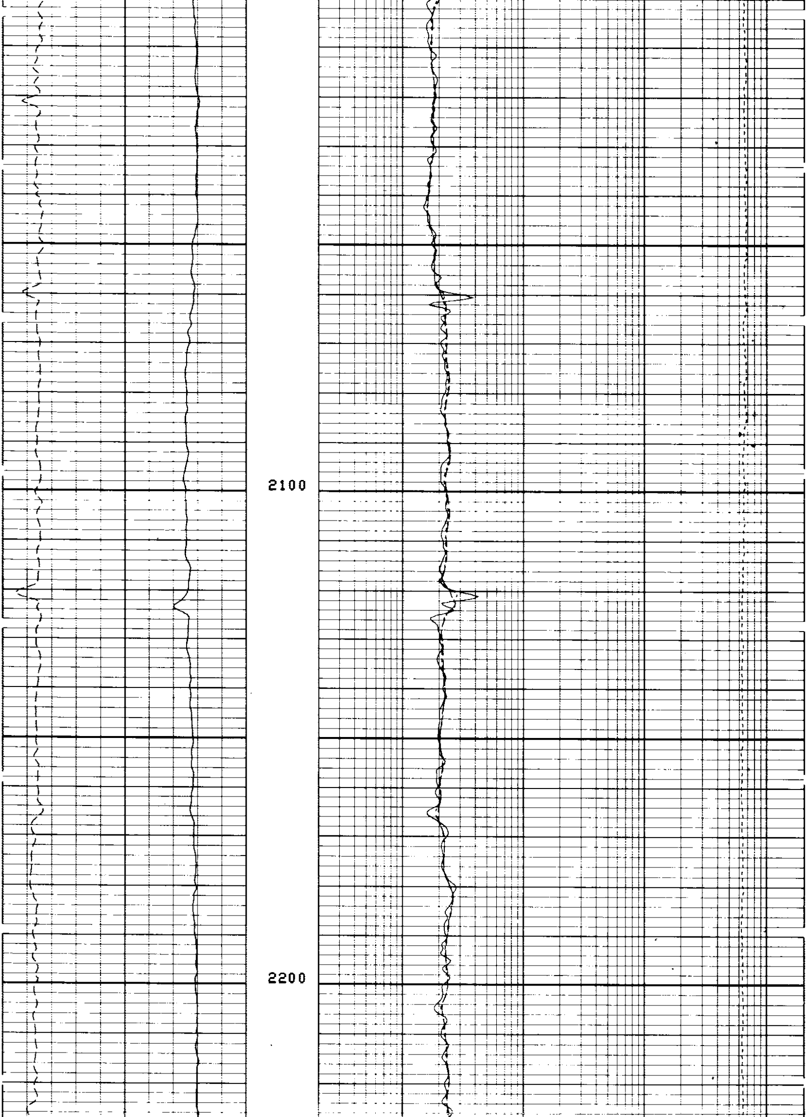


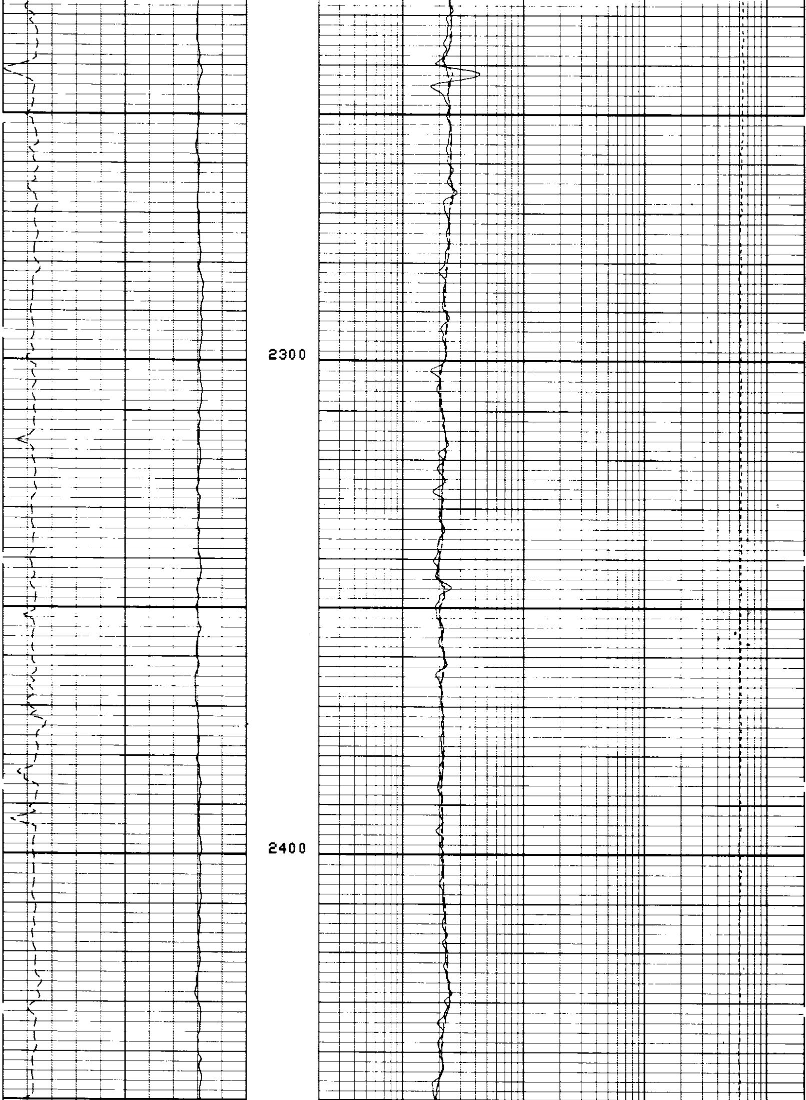


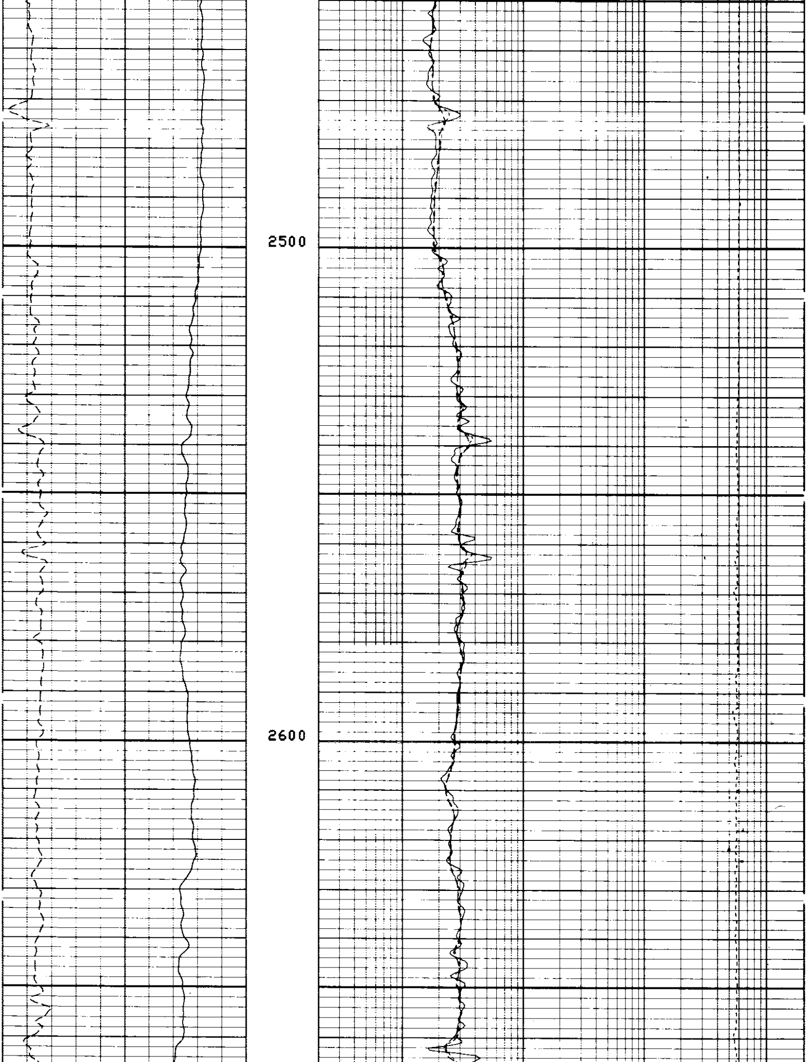


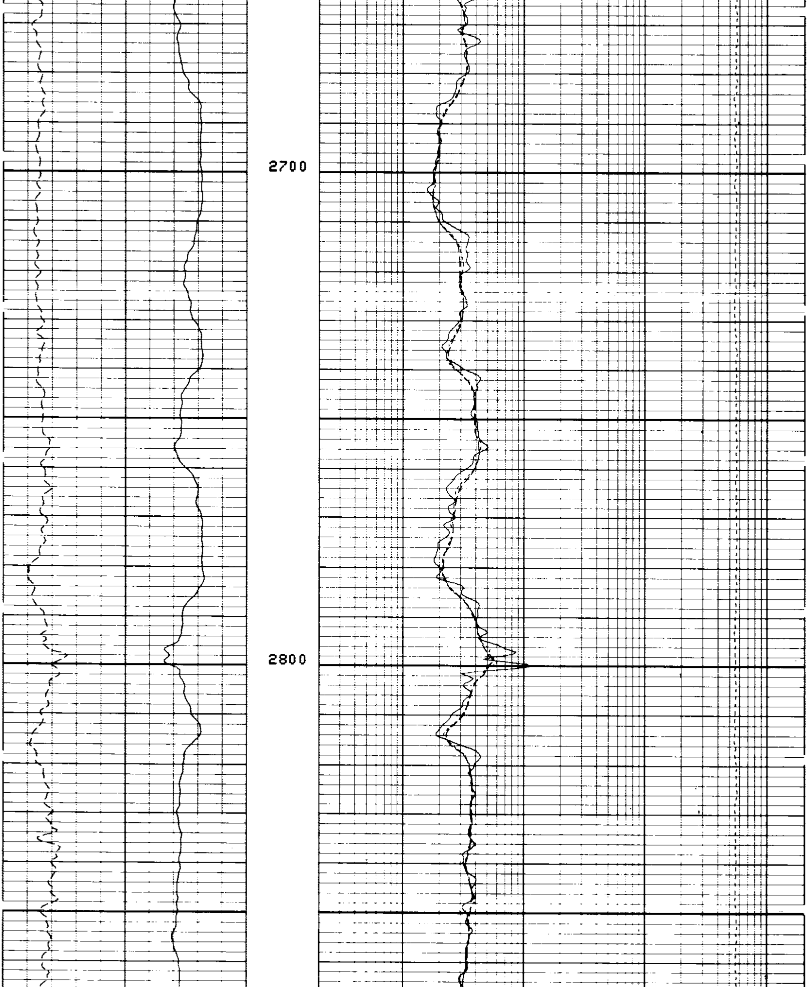


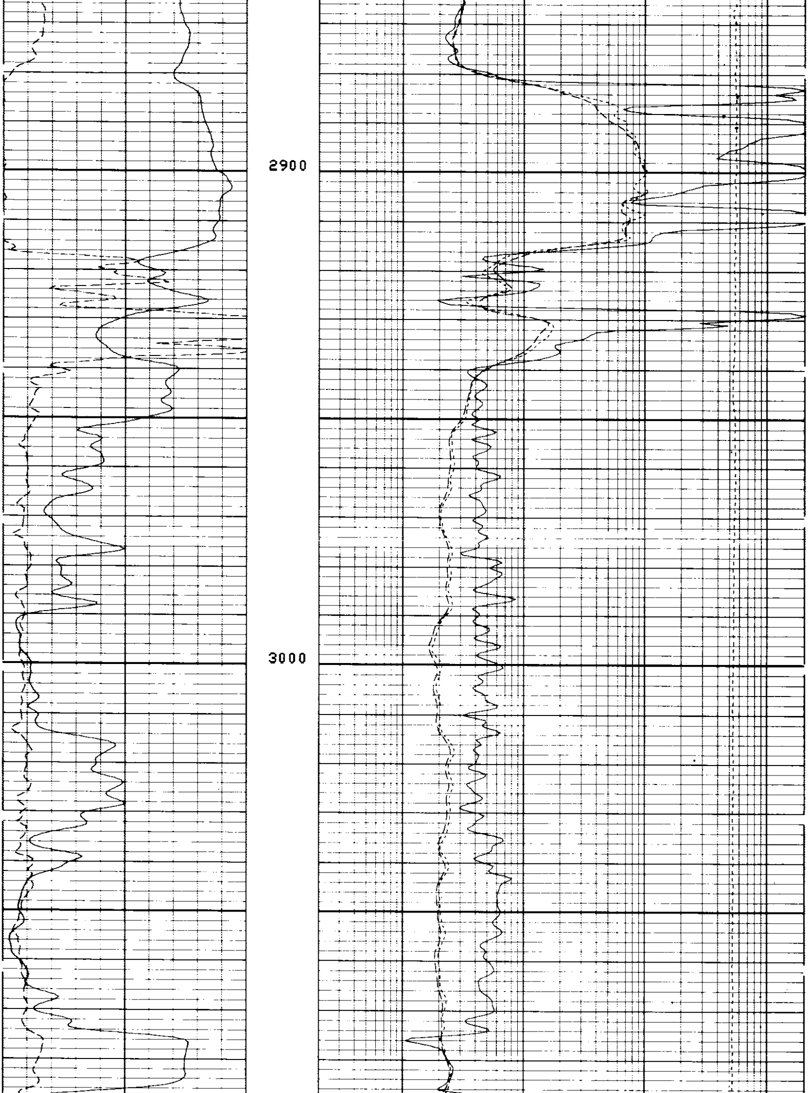


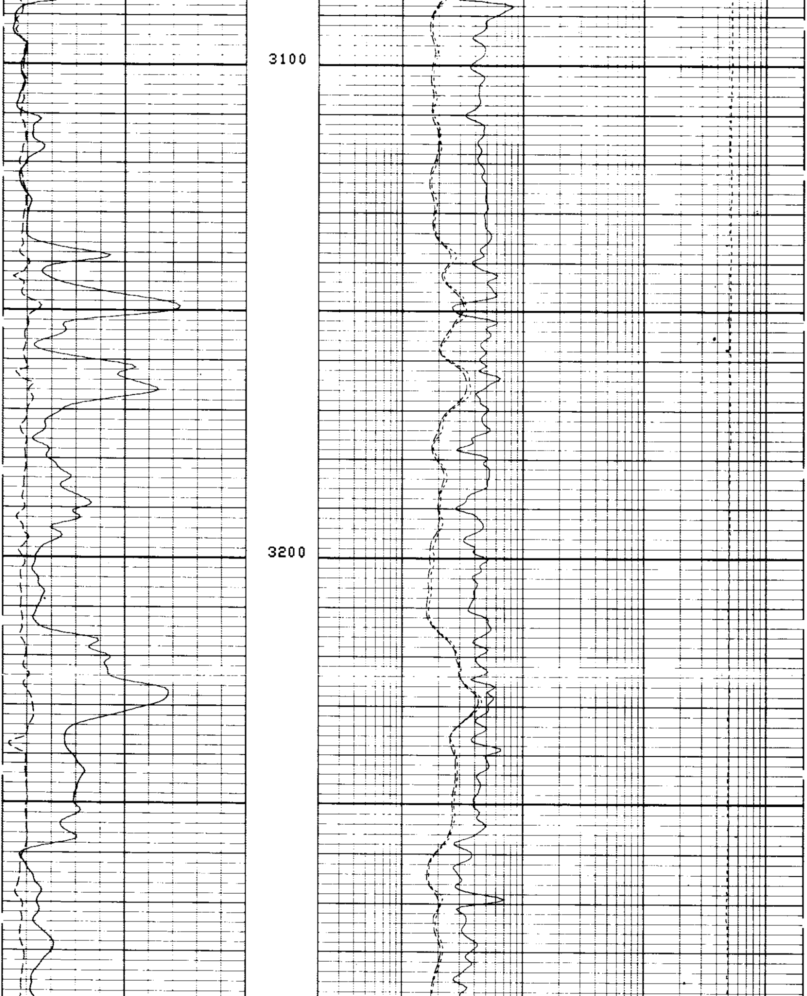


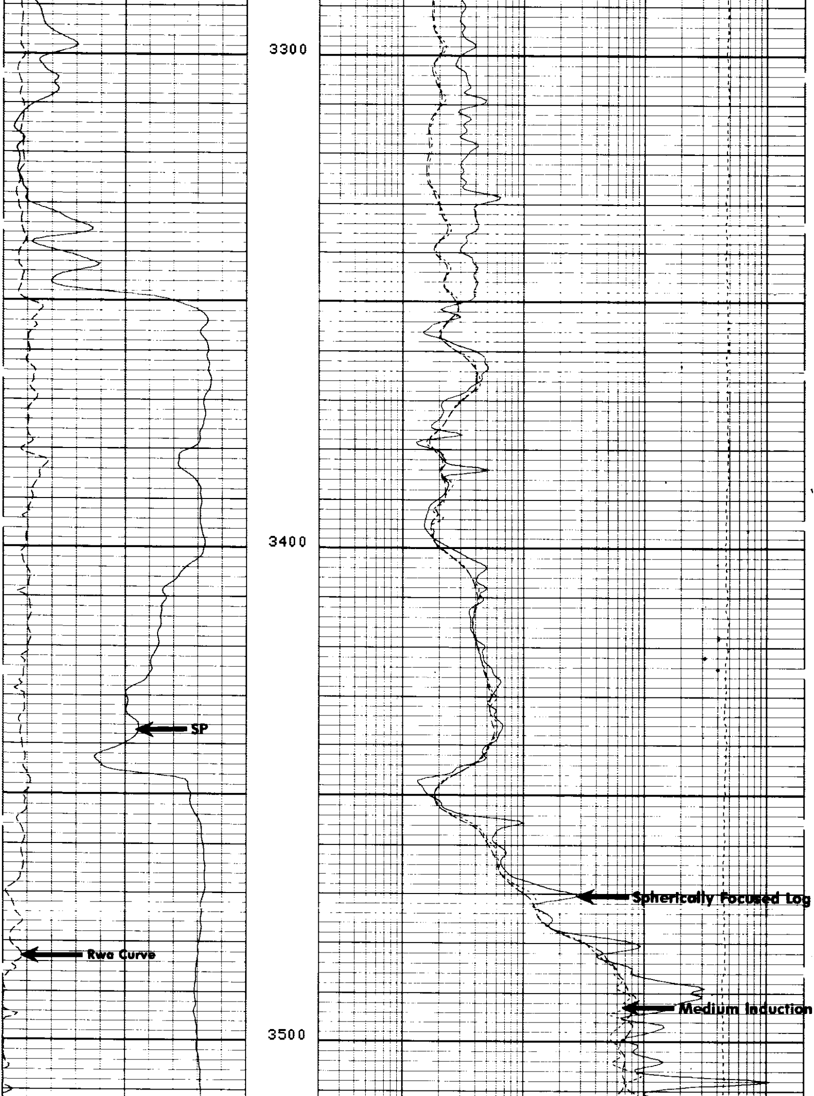


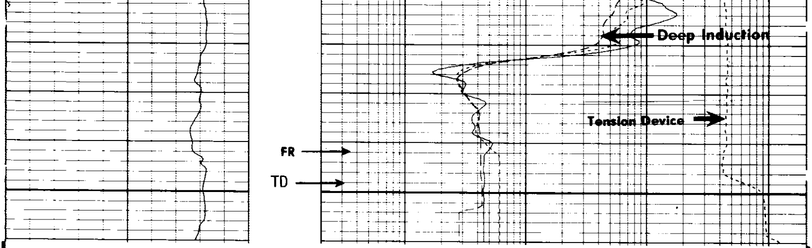












```
FILE  102         08-JUN-85 09:07
DATA ACQUIRED     08-JUN-85 07:22
```

```
                                              TENS(LB  )
                                          10000.              0.0
                                   ILD (OHMM)
                        .20000                              2000.0
     RWA (OHMM)                    ILM (OHMM)
0.0           3.0000    .20000                              2000.0
     SP  (MV  )                    SFLU(OHMM)
-100.0           0.0    .20000                              2000.0
```

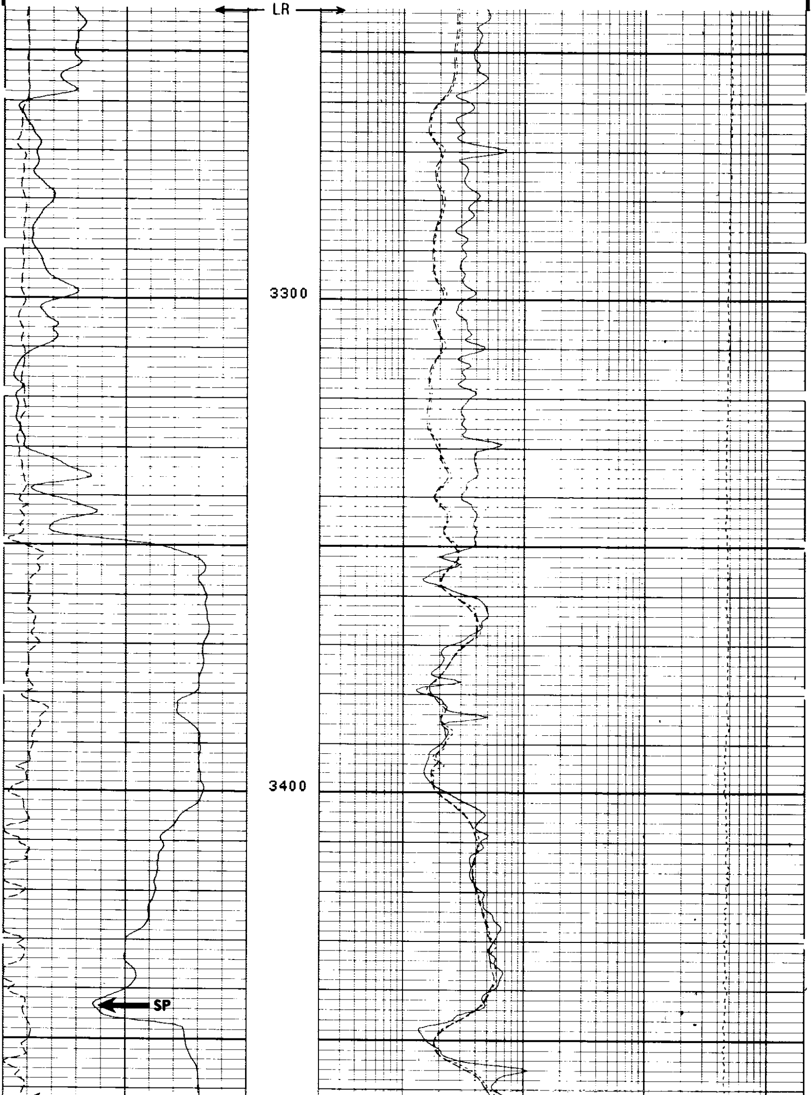
```
                   SENSOR MEASURE POINT TO TOOL ZERO

     CBL   37.0  FEET                         AMPL  37.0  FEET
     TT3   33.3  FEET                         TT4   32.3  FEET
     TT1   36.0  FEET                         TT2   37.0  FEET
     CALI  56.1  FEET                         SRAT  34.5  FEET
     SFL    6.4  FEET                         ILD    9.4  FEET
     SP     2.5  FEET                         ILM    5.7  FEET
     TENS   2.5  FEET                         SPAR   2.5  FEET
     NOIS  28.8  FEET
```

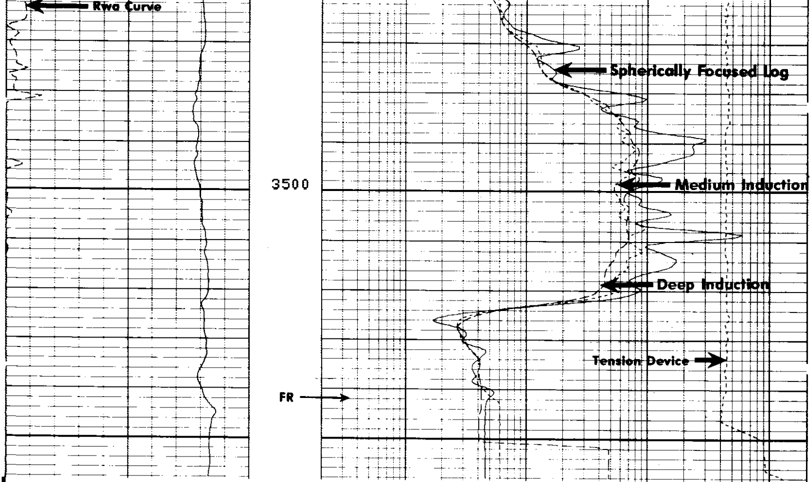
```
                              PARAMETERS

     NAME  VALUE     UNIT                     NAME  VALUE     UNIT

     WSV1  WF1                                DWS   16
     DSIN  5         US                       DDEL  200       US
     CDTS  140.000                            DWCO  512
     DTF   189.000   US/F                     DTM   56.0000   US/F
     SBR   1.00000   OHMM                     DSEC  6.60000   MMHO
     FPHI  SPHI                               MSEC  7.20000   MMHO
     BS    7.87500   IN                       BHS   OPEN
     SPDR  0.0                                DO    0.0       F
     PP    NORM
```

```
                                              TENS(LB  )
                                          10000.              0.0
                                   ILD (OHMM)
                        .20000                              2000.0
     RWA (OHMM)                    ILM (OHMM)
0.0           3.0000    .20000                              2000.0
     SP  (MV  )                    SFLU(OHMM)
-100.0           0.0    .20000                              2000.0
```

REPEAT SECTION

```
FILE  101         08-JUN-85 09:06
DATA ACQUIRED     08-JUN-85 07:20
```





```
                    FILE  101        08-JUN-85 09:05
                    DATA ACQUIRED    08-JUN-85 07:12
```

```
                                                            TENS(LB   )
                                                       10000.              0.0
                                                   ILD (OHMM)
                               .20000                                   2000.0
        RWA (OHMM)                                 ILM (OHMM)
 0.0                 3.0000    .20000                                   2000.0
        SP   (MV   )                               SFLU(OHMM)
 -100.0                 0.0    .20000                                   2000.0
```

```
                 SENSOR MEASURE POINT TO TOOL ZERO

          CBL   37.0   FEET                  AMPL 37.0   FEET
          TT3   33.3   FEET                  TT4  32.3   FEET
          TT1   36.0   FEET                  TT2  37.0   FEET
          CALI  56.1   FEET                  SRAT 34.5   FEET
          SFL    6.4   FEET                  ILD   9.4   FEET
          SP     2.5   FEET                  ILM   5.7   FEET
          TENS   2.5   FEET                  SPAR  2.5   FEET
          NOIS  28.8   FEET
```

```
                          PARAMETERS

          NAME  VALUE     UNIT               NAME  VALUE     UNIT

          WSV1  WF1                          DWS   16
          DSIN  5         US                 DDEL  200       US
          CDTS  140.000                      DWCO  512
          DTF   189.000   US/F               DTM   56.0000   US/F
          SBR   1.00000   OHMM               DSEC  6.60000   MMHO
          FPHI  SPHI                         MSEC  7.20000   MMHO
          BS    7.87500   IN                 BHS   OPEN
          SPDR  0.0                          DO    0.0       F
          PP    NORM
```

```
                    BEFORE SURVEY CALIBRATION SUMMARY


    PERFORMED:      85/06/08
    PROGRAM FILE: ISN     (VERSION     26.2     83/11/17)


  DITD                 ELECTRONICS CALIBRATION SUMMARY

               MEASURED                       CALIBRATED
             ZERO     PLUS                 ZERO        PLUS          UNITS
     ILD      .1     558.0                 0.0        499.5          MMHO
     ILM      .2     557.9                 0.0        499.7          MMHO
     SFL      .7     524.0                 0.0        500.0          MMHO

  ILD  SONDE ERROR CORRECTION :          6.6 MMHO
  ILM  SONDE ERROR CORRECTION :          7.2 MMHO


  MCDB                 CALIPER CALIBRATION SUMMARY

               MEASURED                       CALIBRATED
             SMALL    LARGE                SMALL       LARGE         UNITS
    CALI      7.3     12.3                  8.0        12.0           IN

                           FILE    10       08-JUN-85 07:07
                    AFTER SURVEY TOOL CHECK SUMMARY


    PERFORMED:      85/06/08
    PROGRAM FILE: ISN     (VERSION     26.2     83/11/17)


  DITD                          TOOL   CHECK

                        ZERO                         PLUS
              BEFORE          AFTER          BEFORE       AFTER      UNITS
     ILD        0.0              .0          499.5        495.0      MMHO
     ILM        0.0            -.1           499.7        496.4      MMHO
     SFL        0.0            -.0           500.0        495.2      MMHO

  ILD  SONDE ERROR CORRECTION :          6.6 MMHO
  ILM  SONDE ERROR CORRECTION :          7.2 MMHO

                           FILE    14       08-JUN-85 08:54

                     SHOP SUMMARY


    PERFORMED:      85/05/03
    PROGRAM FILE: SHOP    (VERSION     26.2     83/11/17)


  DITD                 ELECTRONICS CALIBRATION SUMMARY

                  TEST LOOP CALIBRATION                 TOOL CHECK
               MEASURED         CALIBRATED              CALIBRATED
             ZERO     PLUS      ZERO      PLUS       ZERO       PLUS    UNITS
     ILD     -7.5    549.6      0.0      500.0       0.0       499.5   MMHO
     ILM     -8.6    550.3      0.0      500.0       0.0       499,5   MMHO
  ILD  SONDE ERROR CORRECTION :          6.6 MMHO
  ILM  SONDE ERROR CORRECTION :          7.2 MMHO

                           (IS:567 , IC:552 )
```