5" DUAL INDUCTION-SFL

CSU

COMPANY:	REICHHOLD ENERGY CORPORATION
WELL:	"COLUMBIA COUNTY" #33-8
FIELD:	MIST NEHALEM BASIN
COUNTY:	COLUMBIA
STATE:	OREGON
NATION:	U.S.A.
LOCATION:	S00D41'W 2176.14',S1D10'E 469.06' FR E 1/4 CNR
SEC:	33
TWP:	6N
RGE:	5W

OTHER SERVICES-
BHC
HDT

PERMANENT DATUM:	GL
ELEV. OF PERM. DATUM:	733.4 F
LOG MEASURED FROM:	KB
11.4 F	ABOVE PERM. DATUM
DRLG. MEASURED FROM:	KB

ELEVATIONS-
KB: 744.8 F
DF: 743.8 F
GL: 733.4 F

PROGRAM
TAPE NO:
26.2
SERVICE
ORDER NO:
432440

DATE:	12 MAY 85
RUN NO:	1
DEPTH-DRILLER:	3612.0 F
DEPTH-LOGGER:	3609.0 F
BTM. LOG INTERVAL:	3603.0 F
TOP LOG INTERVAL:	436.0 F
CASING-DRILLER:	436 F
CASING-LOGGER:	436 F
CASING:	9 5/8"
BIT SIZE:	7 7/8"
DEPTH:	3612 F

RECEIVED - PTLD
JUL 11 1985
DEPT. OF GEOLOGY

TYPE FLUID IN HOLE:	GEL/LIGNO
DENSITY:	10.0 LB/G
VISCOSITY:	65.0 S
PH:	9.5
FLUID LOSS:	4.5 C3
SOURCE OF SAMPLE:	MUDPIT
RM:	2.550 OHMM AT 62.0 DEGF
RMF:	2.620 OHMM AT 50.0 DEGF
RMC:	2.960 OHMM AT 50.0 DEGF
SOURCE RMF/RMC:	MEASURED/MEASURED
RM AT BHT:	1.659 OHMM AT 99.0 DEGF
RMF AT BHT:	1.400 OHMM AT 99.0 DEGF
RMC AT BHT:	1.591 OHMM AT 99.0 DEGF
TIME CIRC. STOPPED:	10:00 5-11
TIME LOGGER ON BTM.:	03:05 5-12
MAX. REC. TEMP:	99.0 DEGF
LOGGING UNIT NO:	0120
LOGGING UNIT LOC:	SACRAMENTO
RECORDED BY:	PILCH
WITNESSED BY:	THOMAS

REMARKS:

700 PPM CHLORIDES
INDUCTION AND SONIC RAN IN COMBINATION.
CME-Z AND STANDOFFS USED FOR CENTRALIZATION.

EQUIPMENT NUMBERS-

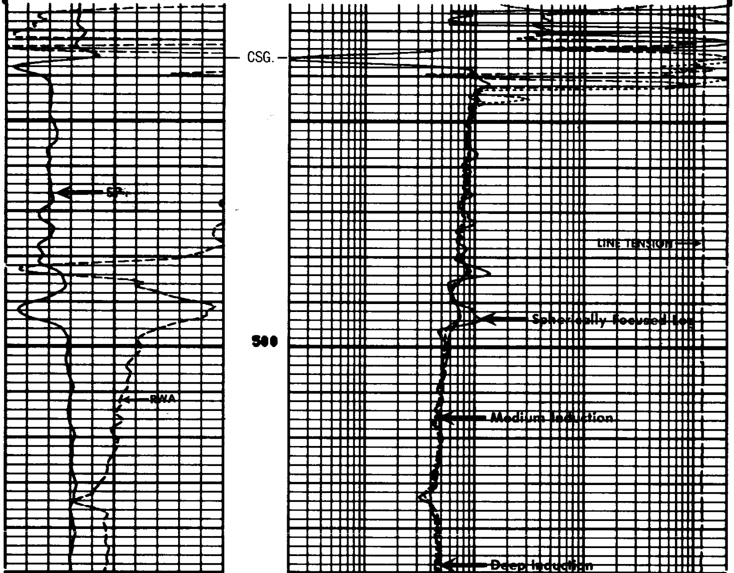
DIS-EC 567	DIC-DA 552	MCD-DA 1237	SLS-RC 252
SLC-FA 1321	IEM-DD 304	SLN-CA 130	

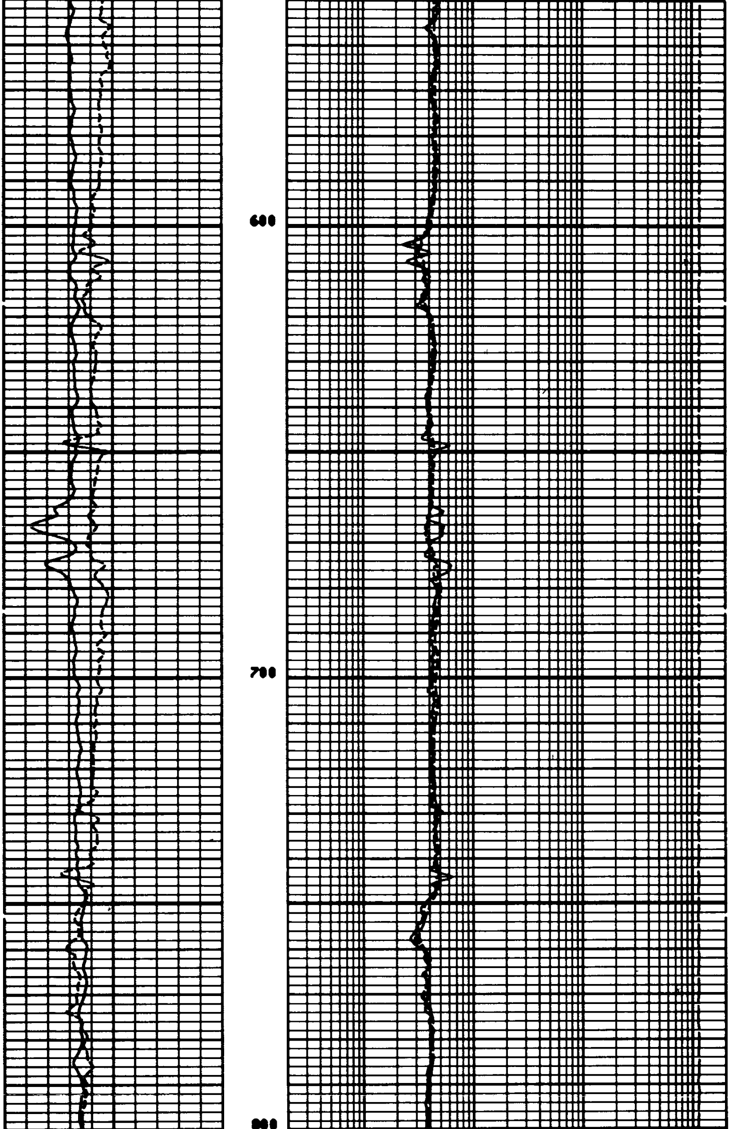
ALL INTERPRETATIONS ARE OPINIONS BASED ON INFERENCES FROM ELECTRICAL OR OTHER MEASUREMENTS AND WE CANNOT, AND DO NOT GUARANTEE THE ACCURACY OR CORRECTNESS OF ANY INTERPRETATIONS, AND WE SHALL NOT, EXCEPT IN THE CASE OF GROSS OR WILLFUL NEGLIGENCE ON OUR PART, BE LIABLE OR RESPONSIBLE FOR ANY LOSS, COSTS, 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.

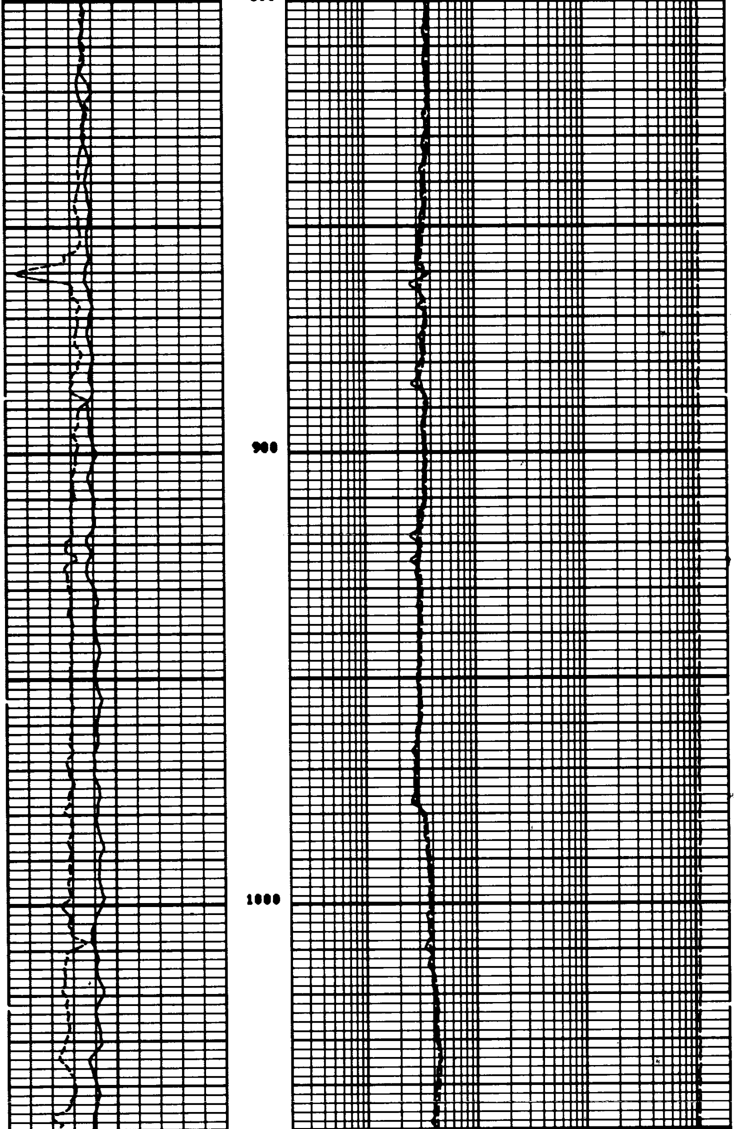
FILE 3 12-MAY-05 04:04
DATA ACQUIRED 12-MAY-05 03:52

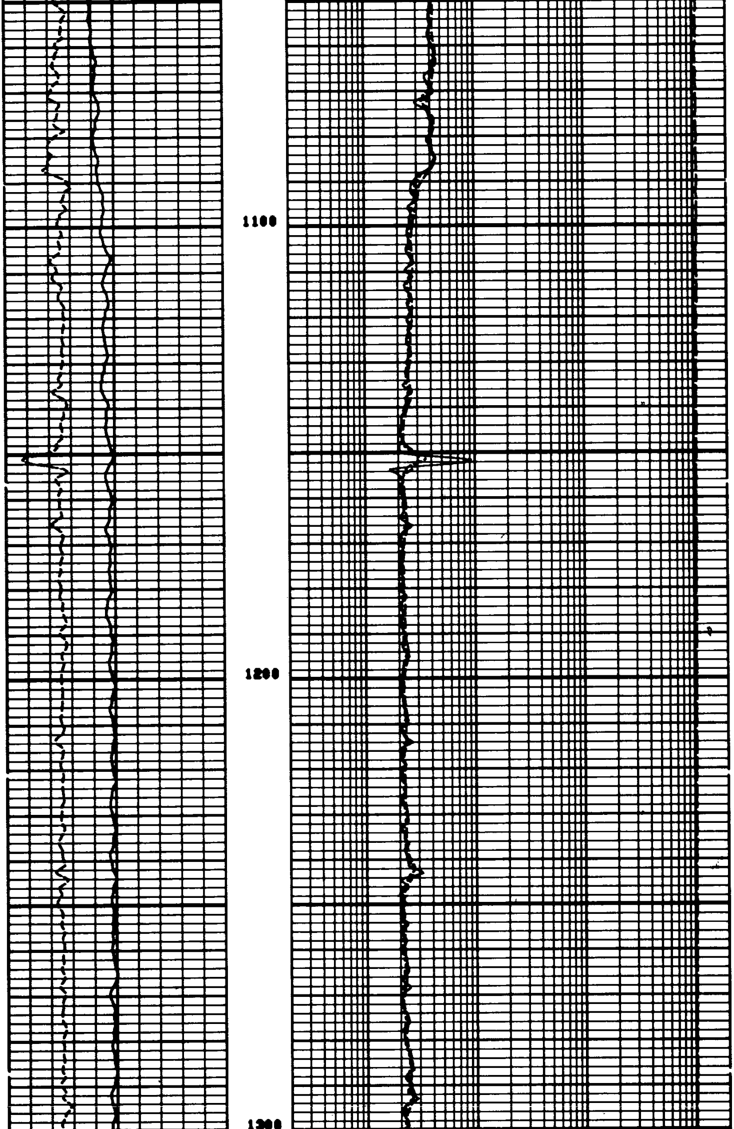
TENS(LB)
10000. 0.0
ILD (OHMM)
.20000 2000.0
RWA (OHMM)
0.0 3.0000
ILM (OHMM)
.20000 2000.0
SP (MV)
-100.0 0.0
SFLU(OHMM)
.20000 2000.0

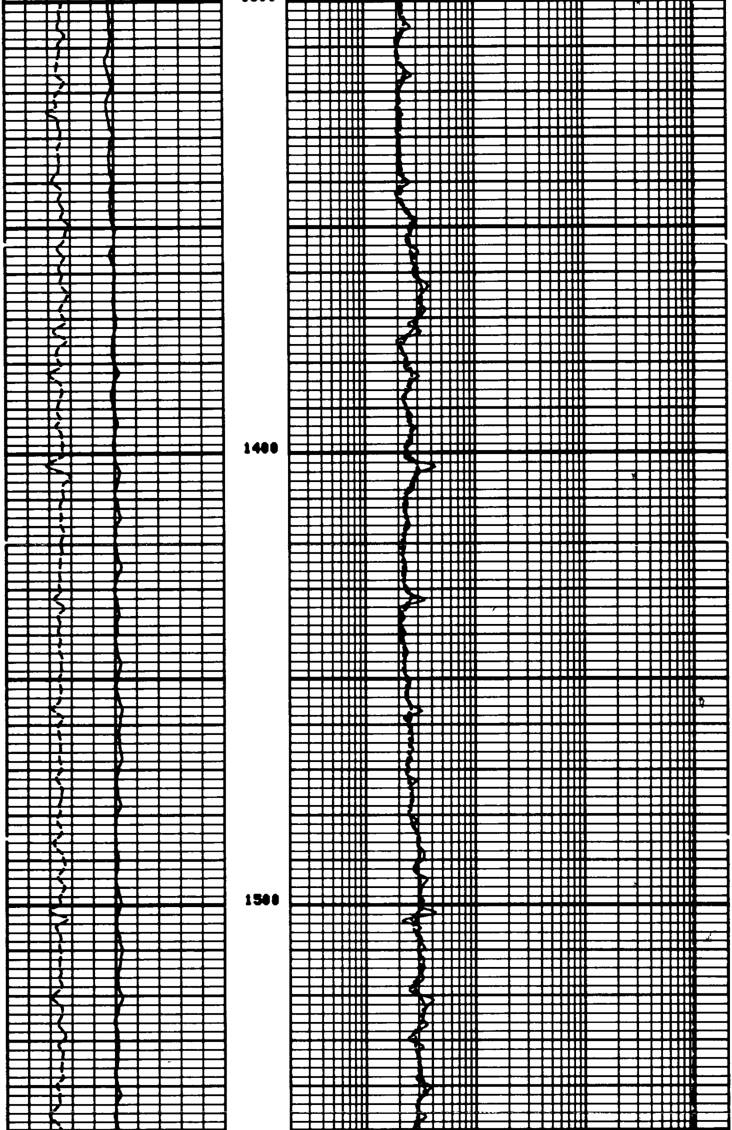
FILE 3 12-MAY-05 03:52

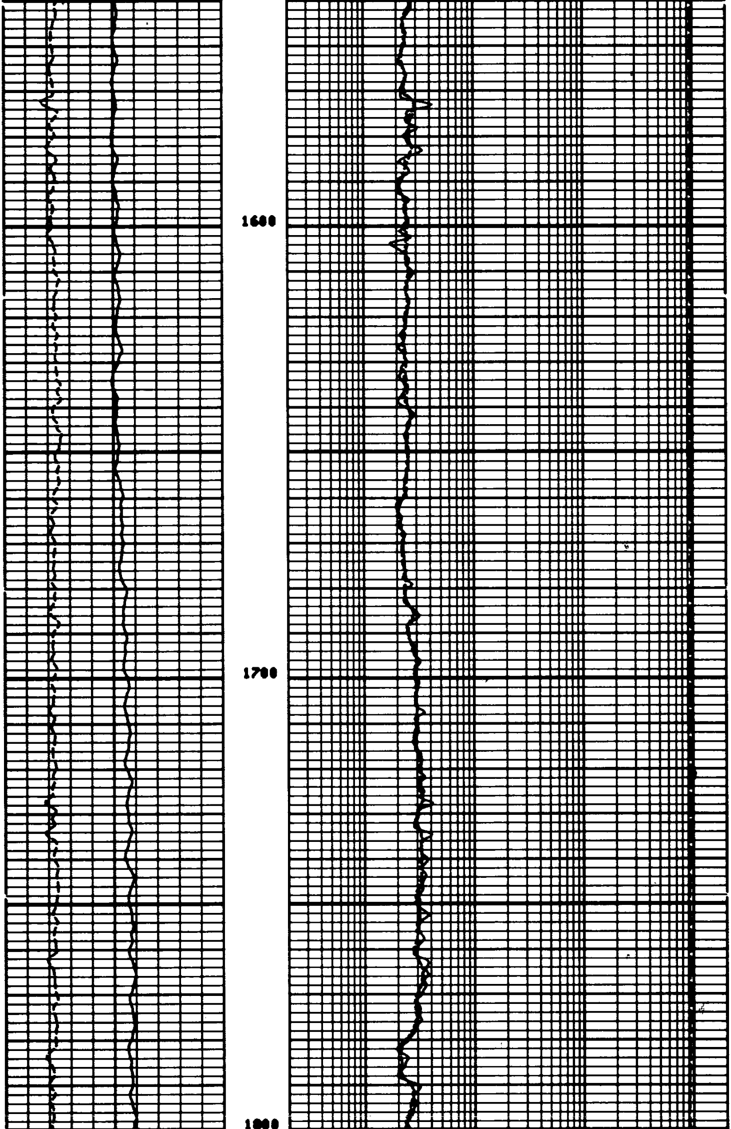


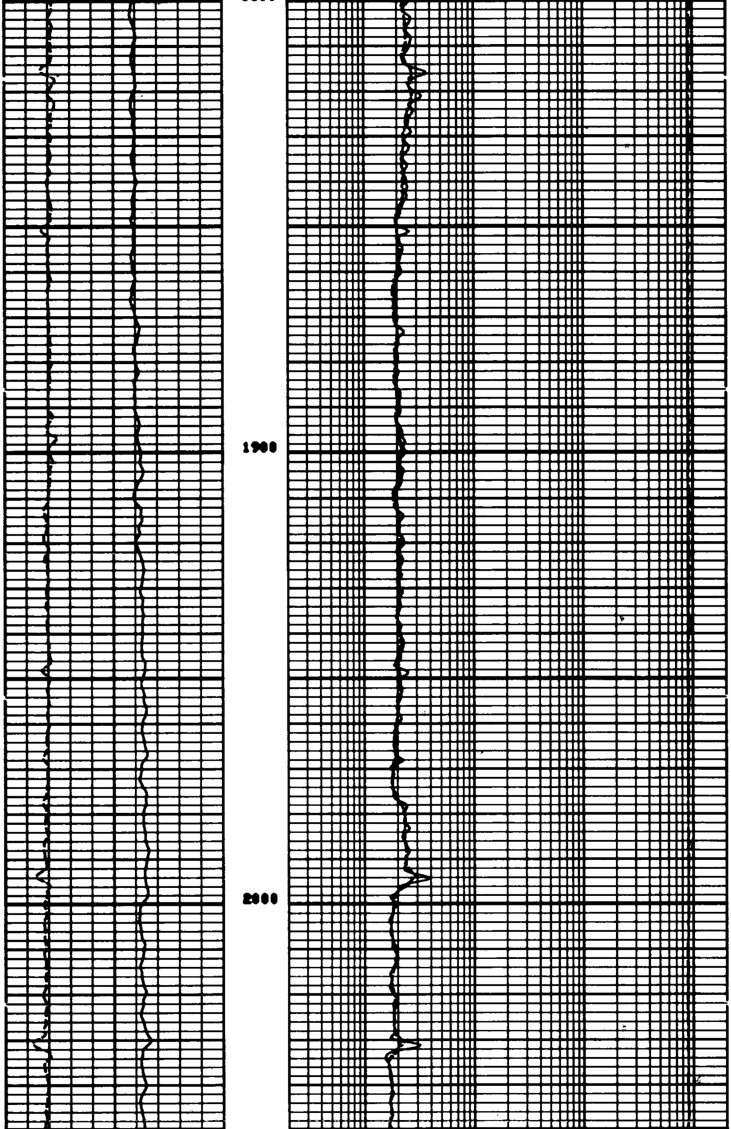


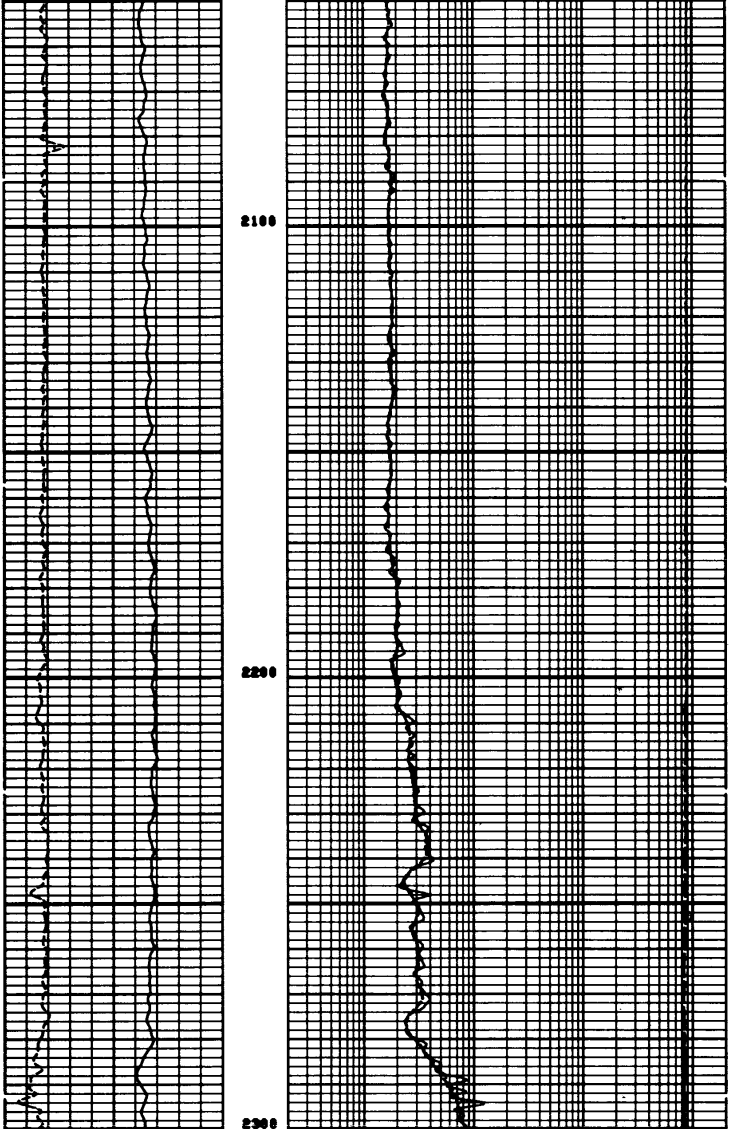


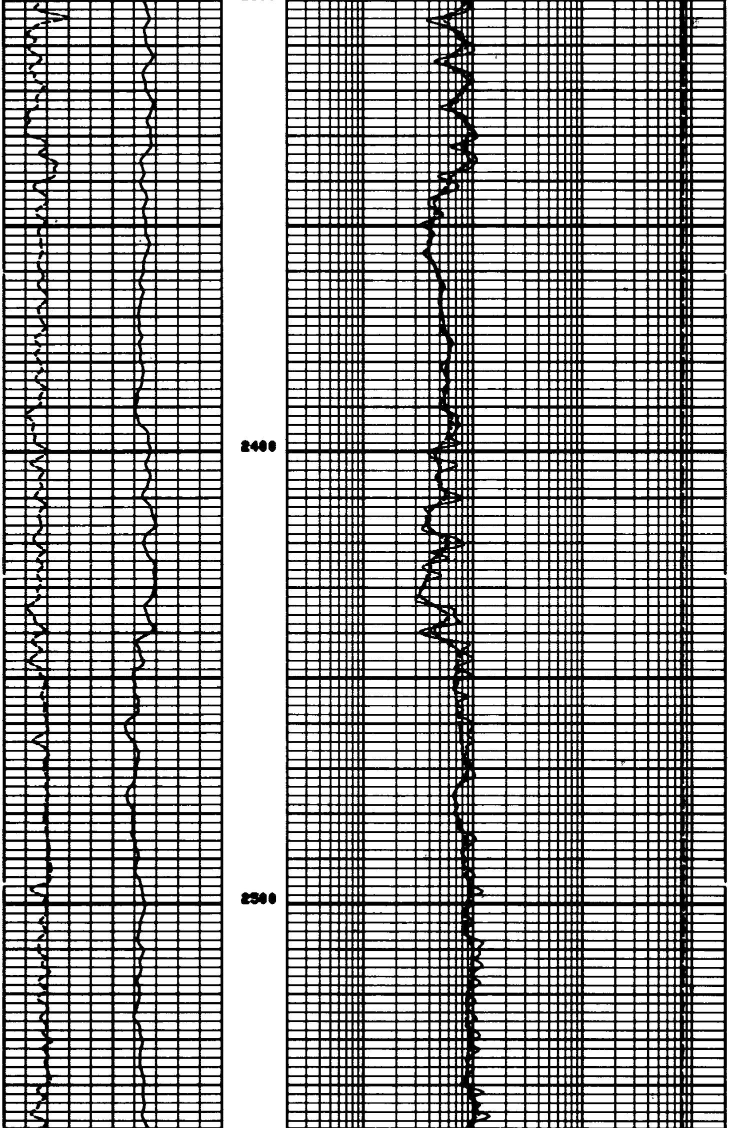


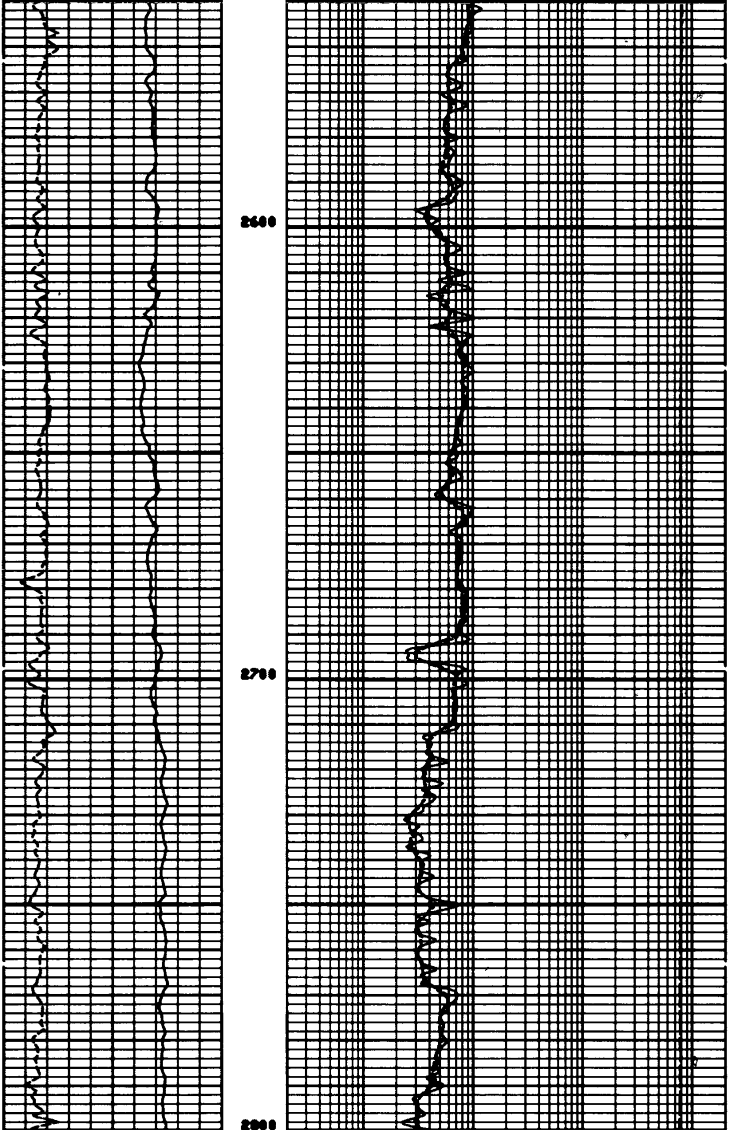


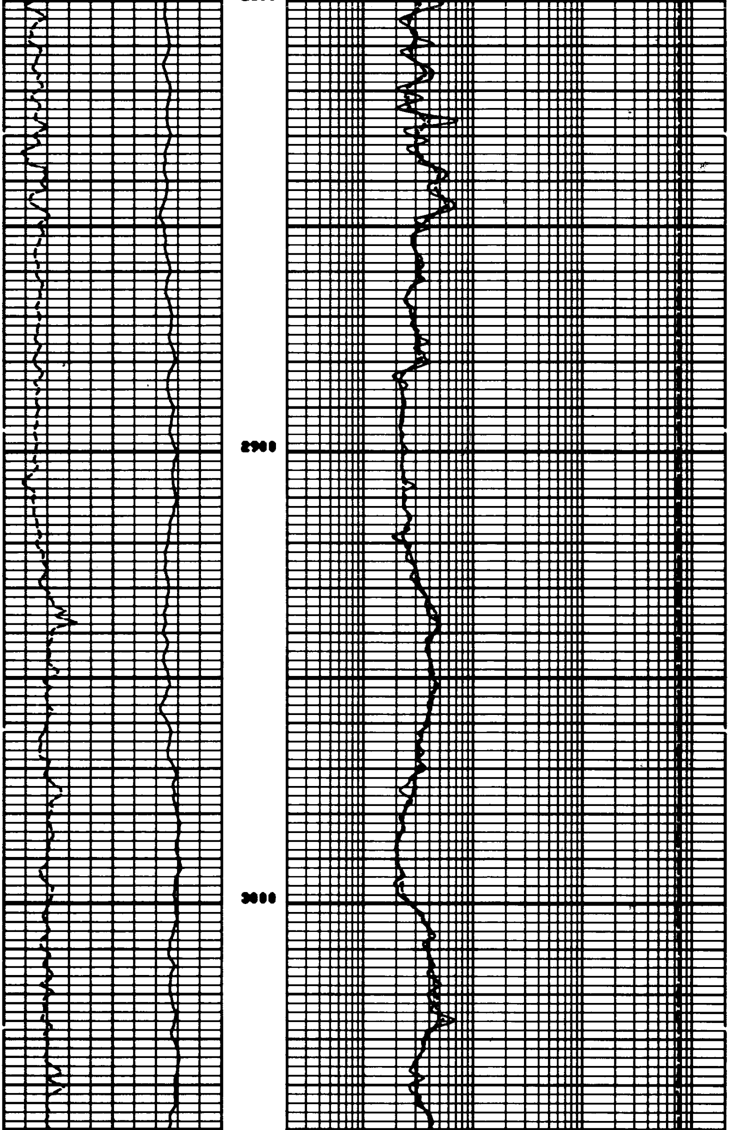


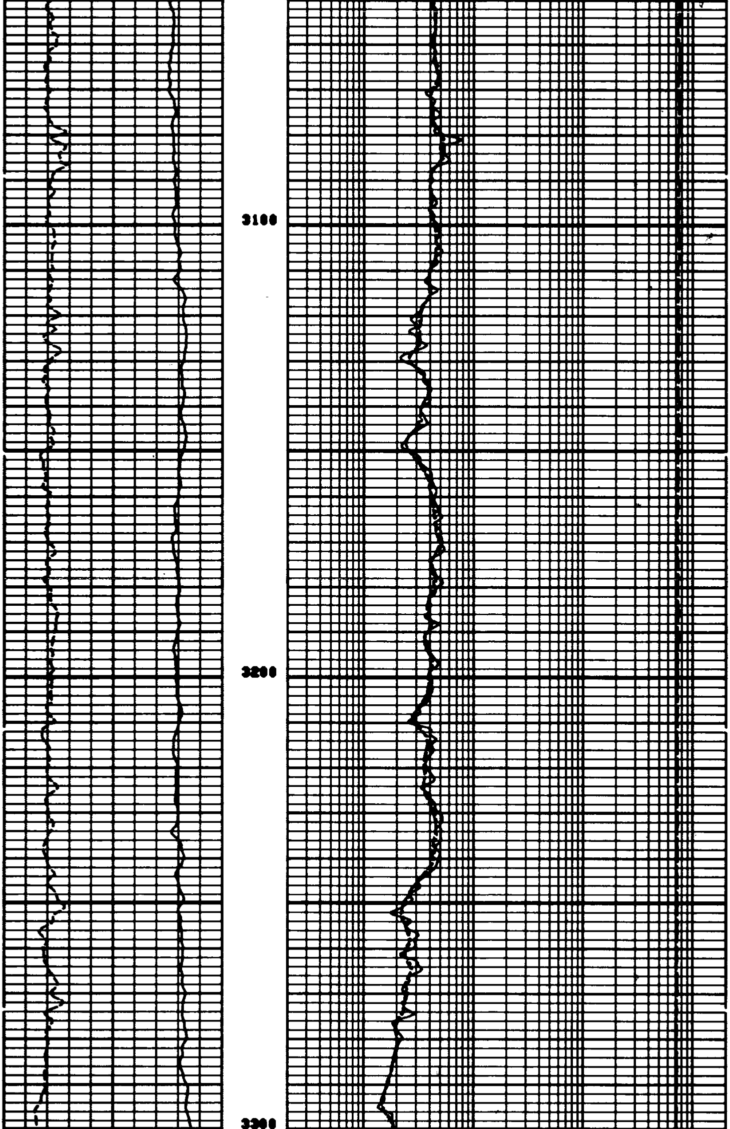


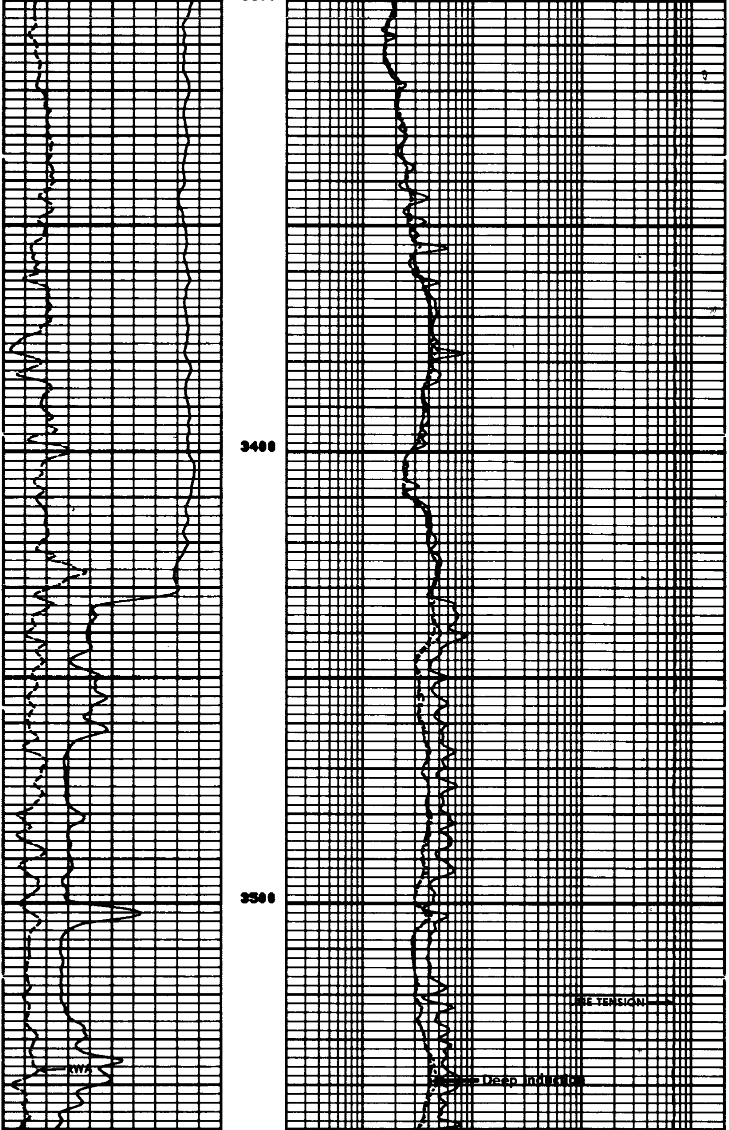


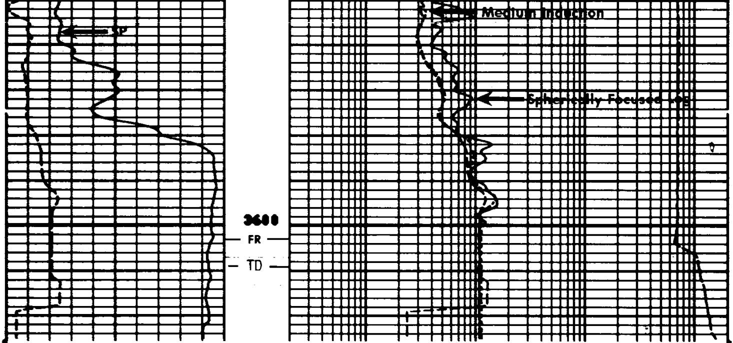












```
                         FILE     3      12-MAY-85 03:02

                                                         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
```

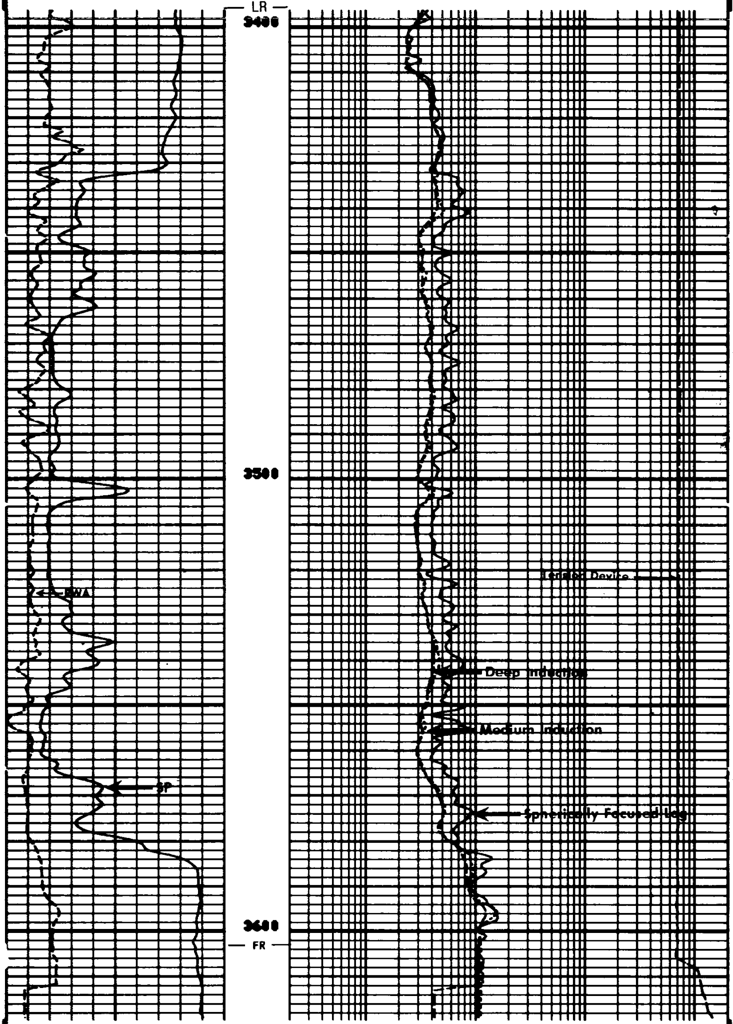
```
                  SENSOR MEASURE POINT TO TOOL ZERO

     CBL   43.9  FEET                        AMPL 43.9  FEET
     TT3   40.1  FEET                        TT4  39.1  FEET
     TT1   42.9  FEET                        TT2  43.9  FEET
     CALI  31.8  FEET                        SRAT 41.4  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
     MGIS  35.6  FEET
```

```
                            PARAMETERS

     NAME  VALUE     UNIT                    NAME  VALUE     UNIT

     MSV1 WF1                                DWS  16
     DSIN 5          US                      DDEL 200        US
     CBTS 100.000                            DWCO 512
     DTF  189.000    US/F                    DTM  56.0000    US/F
     SDR  1.00000    OHMM                    DSEC 6.60000    MMHO
     FPHI SPHI                               MSEC 7.20000    MMHO
     BS   7.87500    IN                      BHS  OPEN
```

```
                                                         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 2 12-MAY-85 03:01



FILE 2 12-MAY-85 02:57

```
                                                          ______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   43.9  FEET                         AMPL  43.9  FEET
          TT3   40.1  FEET                         TT4   39.1  FEET
          TT1   42.9  FEET                         TT2   43.9  FEET
          CALI  31.0  FEET                         SRAT  41.4  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
          MDIS  35.6  FEET
```

```
                                PARAMETERS

          NAME   VALUE    UNIT                     NAME   VALUE     UNIT

          WSV1  WF1                                DWS   16
          BSIN  5         US                       DDEL  200        US
          CBTS  100.000                            DWCO  512
          BTF   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                       DWS   OPEN
```

```
                    BEFORE SURVEY CALIBRATION SUMMARY


   PERFORMED:     05/05/12
   PROGRAM FILE: ISM     (VERSION    26.2    03/11/17)


  DITD              ELECTRONICS CALIBRATION SUMMARY

               MEASURED                         CALIBRATED
            ZERO     PLUS                   ZERO        PLUS          UNITS
     ILD      .0     560.2                   0.0        499.5          MMHO
     ILM      .1     550.5                   0.0        499.7          MMHO
     SFL      .5     526.0                   0.0        500.0          MMHO

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


  MCDD              CALIPER CALIBRATION SUMMARY

               MEASURED                         CALIBRATED
            SMALL    LARGE                  SMALL       LARGE         UNITS
   CALI      7.3     10.6                    8.0        12.0           IN

                        FILE    1       12-MAY-05 02:46
```

```
                 AFTER SURVEY TOOL CHECK SUMMARY


  PERFORMED:      85/05/12
  PROGRAM FILE: ISM    (VERSION    26.2     83/11/17)


DITD                    TOOL  CHECK

                  ZERO                          PLUS
           BEFORE        AFTER          BEFORE      AFTER     UNITS
    ILD      0.0           .0           499.5       494.7     MMHO
    ILM      0.0           .0           499.7       496.7     MMHO
    SFL      0.0           .0           500.0       495.7     MMHO

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

                   FILE    5       12-MAY-85 03:54
```

```
                  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  -0.6     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 )
```