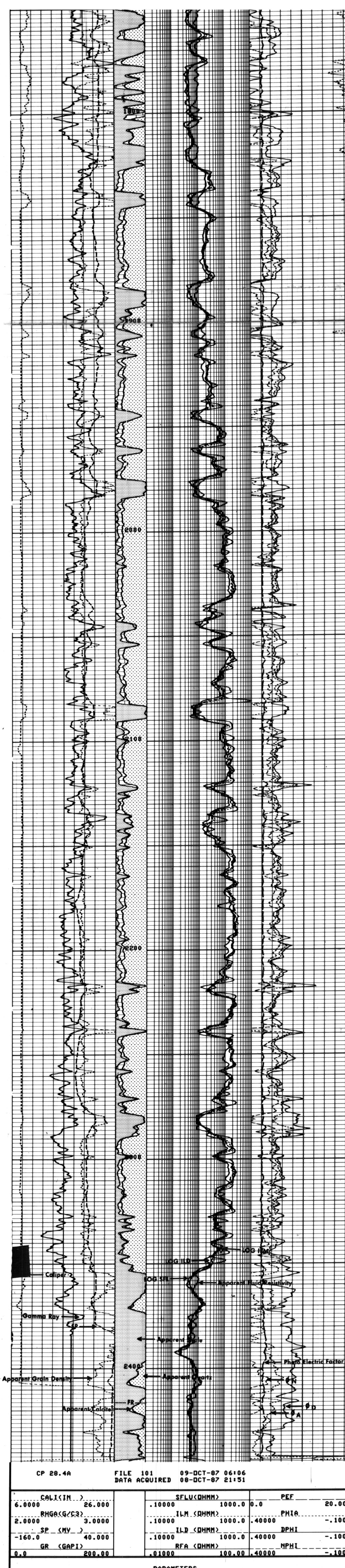


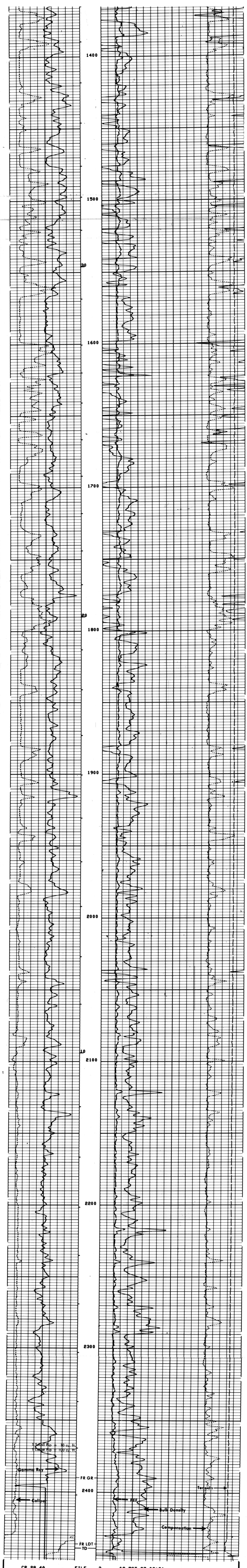
```
CP 28.4A            FILE  101       09-OCT-87 06:06
                    DATA ACQUIRED   08-OCT-87 21:51

     CALI(IN  )                  SFLU(OHMM)                    PEF
6.0000        26.000     .10000            1000.0  0.0                 20.000
     RHGA(G/C3)                  ILM (OHMM)                    PHIA
2.0000        3.0000     .10000            1000.0  .40000              -.1000
     SP  (MV  )                  ILD (OHMM)                    DPHI
-160.0        40.000     .10000            1000.0  .40000              -.1000
     GR  (GAPI)                  RFA (OHMM)                    NPHI
0.0           200.00     .01000            100.00  .40000              -.1000

                              PARAMETERS

     NAME  VALUE         UNIT                  NAME  VALUE        UNIT

     DMRT 2439.00        F                     SWMN .100000
     TPCN 7.20000        NS/M                  TPSH 8.90000       NS/M
     GRSS GR                                   CNPS NPHI
     UM32 4.77900                              UM33 8.99700
     UM23 8.99700                              UM31 13.7700
     UM21 13.7700                              UM22 4.77900
     RG33 2.87700                              UF   .398000
     RG31 2.71000                              RG32 2.64400
     RG22 2.64400                              RG23 2.87700
     LBTA PRES                                 RG21 2.71000
     SDGC DGCN                                 SIS  NONE
     GULM 999.000        GAPI                  NMLA ABSE
     NLIM .0100000                             DLLM .350000
     LSWB DISA                                 MDET NEIT
     GDSH 2.90000        G/C3                  FRTC DIL
     DRUL .150000        G/C3                  GDCL 2.71000       G/C3
     TPM3 7.30000        NS/M                  TPFM 7.20000       NS/M
     TPM1 10.1000        NS/M                  TPM2 7.20000       NS/M
     POUT SAND                                 FEPT LDT
     RWB  .100000        OHMM                  FCAL PRES
     NPSH .500000                              RWF  .120000       OHMM
     SPSH 0.0            MV                    NPCL .0200000
     GRSH 110.000        GAPI                  SPCL -120.000      MV
     PMAX .500000                              GRCL 30.0000       GAPI
     SINP GR                                   NGSI NEIT
     RXOF PRES                                 CLIM 11.0000       IN
     BHT  80.0000        DEGF                  SONI PRES
     KEXP 1.00000                              RTLF DISA
     KES  E4                                   KCON 1.00000
     RMF  7.48400                              FRT  ALLO
     MATR SAND                                 HC   CALI
     MDEN 2.65000        G/C3                  FD   1.00000       G/C3
     DHC  BS                                   BFM  LIQU
     SPFS R-H                                  WMUD 9.50000       LB/G
     DTM  56.0000        US/F                  CDTS 100.000
     DDEL 200            US                    DTF  189.000       US/F
     DWCO 512                                  DSIN 5             US
     BS   7.87500        IN                    BHS  OPEN
     DO   0.0            F                     DO2  0.0           F
     PP   NORM
```



```
CP 28.4A            FILE     3      09-OCT-87 03:31
                    DATA ACQUIRED   09-OCT-87 01:14

     CALI(IN  )                                          DRHO(G/C3)
6.0000        16.000                              -.2500              .25000
     GR  (GAPI)                  PEF                      TENS(LB  )
0.0           200.00     0.0             10.000   10000.               0.0
     GR  (GAPI)                           RHOB(G/C3)
200.00        400.00     2.0000                                        3.0000

                  SENSOR MEASURE POINT TO TOOL ZERO

          STSG   -.9   FEET                   GR    49.5   FEET
          LA    42.3   FEET                   SA    42.3   FEET
          FCNL  23.7   FEET                   SPCD  42.3   FEET
          SCNL   -.9   FEET                   NCNL  23.7   FEET
          LL     2.6   FEET                   LITH   2.6   FEET
          LU     2.6   FEET                   LS     2.6   FEET
          SS2    2.1   FEET                   SS1    2.1   FEET
          TENS   -.9   FEET                   CALI   2.7   FEET
          MINV  42.3   FEET                   MNOR  42.3   FEET
          NRAT  23.7   FEET

                              PARAMETERS

     NAME  VALUE         UNIT              NAME  VALUE         UNIT

     SHT   80.0000       DEGF              TD    10000.0       F
     HC    CALI                            PSNR 2.28400
     FD    1.00000       G/C3              MATR SAND
     WMUD 9.50000        LB/G              MDEN 2.65000        G/C3
     DHC   NONE                            BFM  LIQU
     BS    7.87500       IN                BHS  OPEN
     PP    RECO                            DO   0.0            F

                            TAPE NOT MADE
```

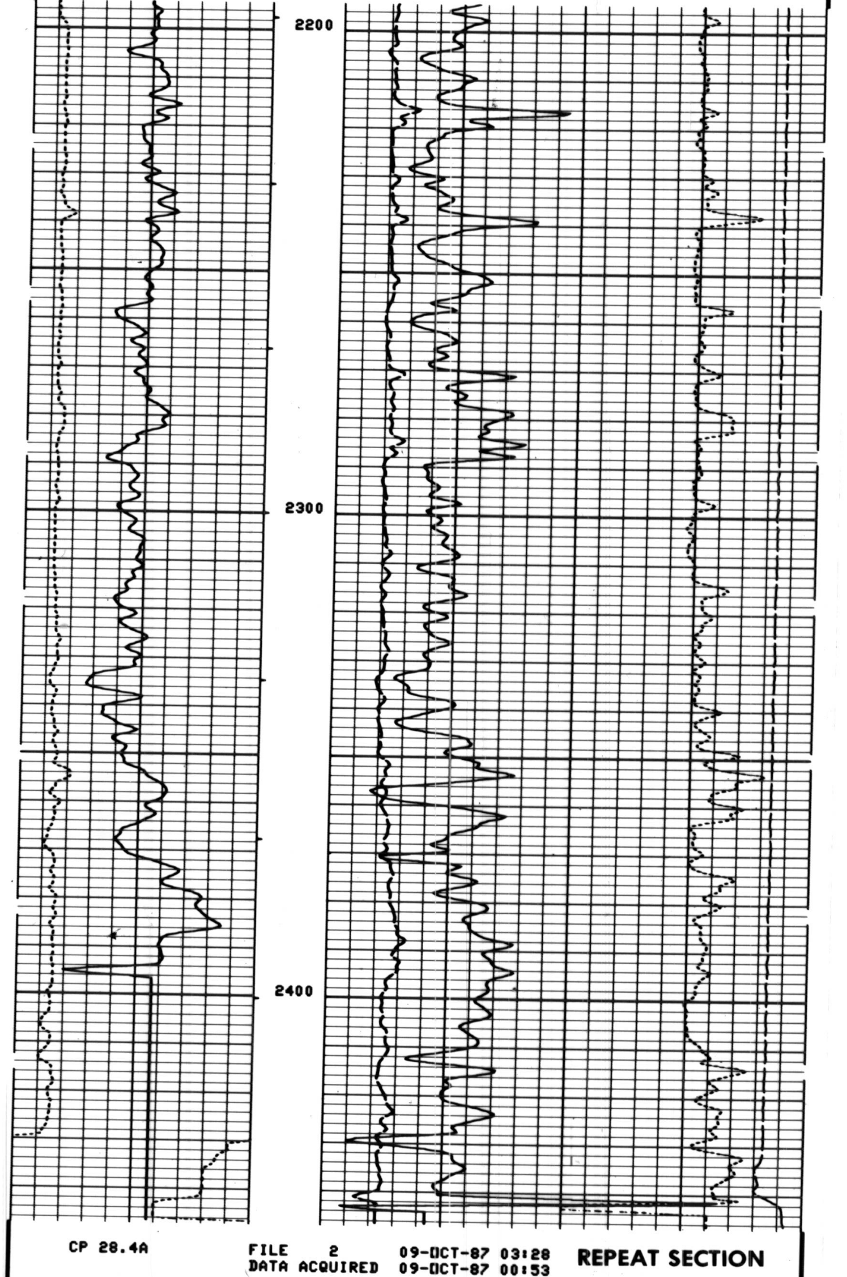
```
EVENT MARK SUMMARY:

OUTPUT   INTERVAL          DEPTH TRACK
         BETWEEN PIPS      EDGE

IHV      10.0000 F3        LEFT EDGE

     CALI(IN  )                                          DRHO(G/C3)
6.0000        16.000                              -.2500              .25000
     GR  (GAPI)                  PEF                      TENS(LB  )
0.0           200.00     0.0             10.000   10000.               0.0
     GR  (GAPI)                           RHOB(G/C3)
200.00        400.00     2.0000                                        3.0000

CP 28.4A            FILE     2      09-OCT-87 03:29       REPEAT SECTION
                    DATA ACQUIRED   09-OCT-87 01:02
```



```
CP 28.4A            FILE     2      09-OCT-87 03:28       REPEAT SECTION
                    DATA ACQUIRED   09-OCT-87 00:53

     CALI(IN  )                                          DRHO(G/C3)
6.0000        16.000                              -.2500              .25000
     GR  (GAPI)                  PEF                      TENS(LB  )
0.0           200.00     0.0             10.000   10000.               0.0
     GR  (GAPI)                           RHOB(G/C3)
200.00        400.00     2.0000                                        3.0000

                  SENSOR MEASURE POINT TO TOOL ZERO

          STSG   -.9   FEET                   GR    49.5   FEET
          LA    42.3   FEET                   SA    42.3   FEET
          FCNL  23.7   FEET                   SPCD  42.3   FEET
          SCNL   -.9   FEET                   NCNL  23.7   FEET
          LL     2.6   FEET                   LITH   2.6   FEET
          LU     2.6   FEET                   LS     2.6   FEET
          SS2    2.1   FEET                   SS1    2.1   FEET
          TENS   -.9   FEET                   CALI   2.7   FEET
          MINV  42.3   FEET                   MNOR  42.3   FEET
          NRAT  23.7   FEET

                              PARAMETERS

     NAME  VALUE         UNIT              NAME  VALUE         UNIT

     SHT   80.0000       DEGF              TD    10000.0       F
     HC    CALI                            PSNR 2.28400
     FD    1.00000       G/C3              MATR SAND
     WMUD 9.50000        LB/G              MDEN 2.65000        G/C3
     DHC   NONE                            BFM  LIQU
     BS    7.87500       IN                BHS  OPEN
     PP    RECO                            DO   0.0            F

                            TAPE NOT MADE
```

```
               BEFORE SURVEY CALIBRATION SUMMARY

  PERFORMED:     08-OCT-87 23:57
  PROGRAM FILE: LEP     (VERSION    28.4A    86/04/03)

SGTL                 DETECTOR CALIBRATION SUMMARY

            MEASURED
          BKGD    JIG           CALIBRATED           UNITS
    GR    113     266             165                GAPI

LDTC                 DETECTOR CALIBRATION SUMMARY

        DRS SONDE NUMBER                           :    3869
        NUCLEAR SERVICE CARTRIDGE NUMBER           :    1828
        POWERED DETECTOR HOUSING NUMBER            :    2784
        POWERED GAMMA-GAMMA DETECTOR NUMBER        :    2749
        LDT LOGGING SOURCE NUMBER                  :    8055
        LDT CALIBRATION MODE                       :    WATE
        MUD DENSITY                                :    9.50000   LB/G

           M E A S U R E D
          BKGD   AL+FE     AL   UNITS
    LL    18.7    82.9    92.0   CPS
    LU    73.1   125.5   139.5   CPS
    LS    55.3   145.5   161.0   CPS
  LITH     5.6    31.8    48.4   CPS
   SS1    13.7   168.7   186.0   CPS
   SS2     9.3   237.2   258.5   CPS

CNTH                 DETECTOR CALIBRATION SUMMARY

              TANK                          JIG
          INPUT    CALIBRATED        MEASURED    CALIBRATED
  NRAT    2.28400   2.158             2.199        2.078

PCDB                 ELECTRONICS CALIBRATION SUMMARY

            MEASURED                    CALIBRATED
          ZERO     PLUS              ZERO       PLUS          UNITS
  MINV     0.0      4.1               0.0        5.0          OHMM
  MNOR     0.0      3.2               0.0        5.0          OHMM

PCDB                 CALIPER CALIBRATION SUMMARY

            MEASURED                    CALIBRATED
          SMALL    LARGE             SMALL      LARGE         UNITS
    LA     3.62     12.6              8.00       16.0          IN
    SA     4.68      8.9              0.0         5.5          IN

LDTC                 CALIPER CALIBRATION SUMMARY

            MEASURED                    CALIBRATED
          SMALL    LARGE             SMALL      LARGE         UNITS
  CALI     8.70     12.8              8.00       12.0          IN
   CP 28.4A            FILE     1      08-OCT-87 23:56
```

```
               AFTER SURVEY TOOL CHECK SUMMARY

  PERFORMED:     09-OCT-87 03:17
  PROGRAM FILE: LEP     (VERSION    28.4A    86/04/03)

LDTC                        TOOL  CHECK

        DRS SONDE NUMBER                           :    3869
        NUCLEAR SERVICE CARTRIDGE NUMBER           :    1828
        POWERED DETECTOR HOUSING NUMBER            :    2784
        POWERED GAMMA-GAMMA DETECTOR NUMBER        :    2749
        LDT LOGGING SOURCE NUMBER                  :    8055
        LDT CALIBRATION MODE                       :    WATE
        MUD DENSITY                                :    9.50000   LB/G

          BACKGROUND MEASURED
          BEFORE         AFTER        UNITS
    LL    18.71          18.81         CPS
    LU    73.06          73.00         CPS
    LS    55.25          55.31         CPS
  LITH     5.617          5.58         CPS
   SS1    13.74          13.74         CPS
   SS2     9.335          9.26         CPS

CNTH                        TOOL  CHECK

                     JIG
             BEFORE         AFTER
  NRAT       2.078          2.080

  POROSITY CHANGE  (LIME):    .001

PCDB                        TOOL  CHECK

                  ZERO                        PLUS
          BEFORE         AFTER        BEFORE         AFTER     UNITS
  MINV     0.0            0.0          5.0            5.0      OHMM
  MNOR     0.0             .0          5.0            5.1      OHMM
   CP 28.4A            FILE    10      09-OCT-87 03:17
```

```
               SHOP SUMMARY

  PERFORMED:     21-SEP-87 15:48
  PROGRAM FILE: CCSHOP (VERSION    28.4    86/07/21)

LDTC                 DETECTOR CALIBRATION SUMMARY

        DRS SONDE NUMBER                           :    3869
        NUCLEAR SERVICE CARTRIDGE NUMBER           :    1828
        POWERED DETECTOR HOUSING NUMBER            :    2784
        POWERED GAMMA-GAMMA DETECTOR NUMBER        :    2749
        LDT LOGGING SOURCE NUMBER                  :    8055
        LDT CALIBRATION MODE                       :    WATE
        MUD DENSITY                                :    8.00000   LB/G

          MASTER  CALIBRATED
          BKGD   AL+FE     AL   UNITS
    LL    18.9    82.9    92.0   CPS
    LU    73.0   125.5   139.5   CPS
    LS    55.4   145.6   161.6   CPS
  LITH     5.5    31.8    48.4   CPS
   SS1    13.7   168.8   186.0   CPS
   SS2     9.2   237.3   258.5   CPS

          SPECTRUM QUALITY RATIOS
  QRLS      .6595
  QRSS      .7195
  QRLI      .2993
  QLIR     1.3721
  QR       1.0077
```

```
               SHOP SUMMARY

  PERFORMED:     21-SEP-87 16:02
  PROGRAM FILE: CCSHOP (VERSION    28.4    86/07/21)

CNTH                 DETECTOR CALIBRATION SUMMARY

              TANK                          JIG
      MEASURED  CALIBRATED         MEASURED    CALIBRATED
  NRAT   2.284      2.158             2.230       2.108

                  (CNC:426 , CNB:3140)
```