CC 22-27-65

5"

Schlumberger

NEUTRON-DENSITY

CSU Field Log

COMPANY:	ARCO EXPLORATION AND TECHNOLOGY COMPANY
WELL:	COLUMBIA COUNTY 22-27
FIELD:	MIST GAS FIELD
COUNTY:	COLUMBIA
STATE:	OREGON
NATION:	USA
LOCATION:	2339.07'S 89 6' 27" & 1180.19'S 0 53' 33"W OF NW CORNER
SEC: 27	TWP: 6N RGE: 5W

OTHER SERVICES-
DIL-BHC
HDT
SAT
SWS

PERMANENT DATUM:	GL	ELEVATIONS-	
ELEV. OF PERM. DATUM:	850.2 F	KB:	862.2 F
LOG MEASURED FROM:	KB	DF:	
12.0 F	ABOVE PERM. DATUM	GL:	850.2 F
DRLG. MEASURED FROM:	KB		

PROGRAM
TAPE NO:
28.2A
SERVICE
ORDER NO:
450595

DATE:	23 NOV 85
RUN NO:	1
DEPTH-DRILLER:	2532.0 F
DEPTH-LOGGER:	2512.0 F
BTM. LOG INTERVAL:	2509.0 F
TOP LOG INTERVAL:	418.0 F
CASING-DRILLER:	418.0 F
CASING-LOGGER:	418.0 F
CASING:	9.625
WEIGHT:	
BIT SIZE:	8.75
DEPTH:	2532.0 F

RECEIVED
DEC 10 1985
DOGAMI
Portland

TYPE FLUID IN HOLE:	GEL-POLYMER
DENSITY:	10.20 LB/G
VISCOSITY:	52.0 S
PH:	8.5
FLUID LOSS:	5.2 C3
SOURCE OF SAMPLE:	FLOWLINE
RM:	3.830 OHMM AT 45.0 DEGF
RMF:	3.110 OHMM AT 45.0 DEGF
RMC:	3.950 OHMM AT 45.0 DEGF
SOURCE RMF/RMC:	MEASURED /MEASURED
RM AT BHT:	1.778 OHMM AT 105. DEGF
RMF AT BHT:	1.444 OHMM AT 105. DEGF
RMC AT BHT:	1.834 OHMM AT 105. DEGF
TIME CIRC. STOPPED:	0900 11-22
TIME LOGGER ON BTM.:	06:00 11-23
MAX. REC. TEMP:	105.0 DEGF

LOGGING UNIT NO: 8126
LOGGING UNIT LOC: SACRAMENTO
RECORDED BY: REINIG/PILCH
WITNESSED BY: ANDERSON

REMARKS:

EQUIPMENT NUMBERS-

PGS-HB 542 PGC-JA 1120 CNC-A 1132 SGC-JAA 466
NLM-BC 456

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.

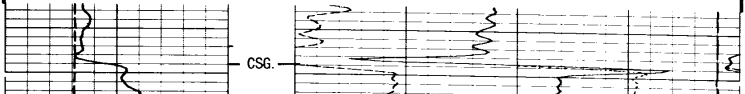
CP 28.2A FILE 0 23-NOV-85 08:50
DATA ACQUIRED NA

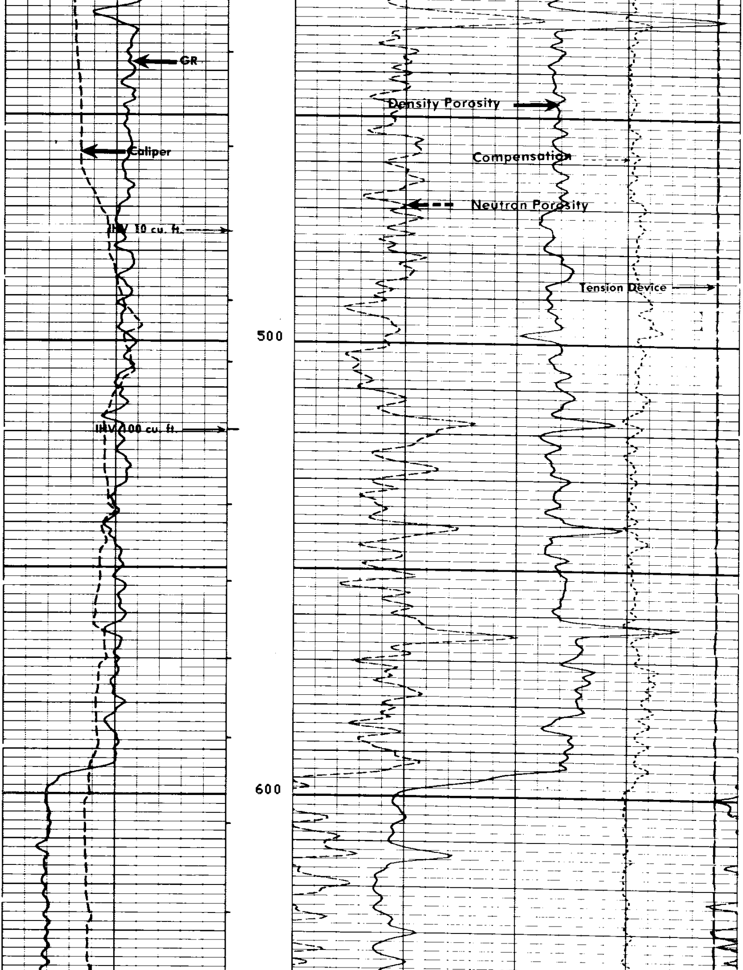
EVENT MARK SUMMARY:

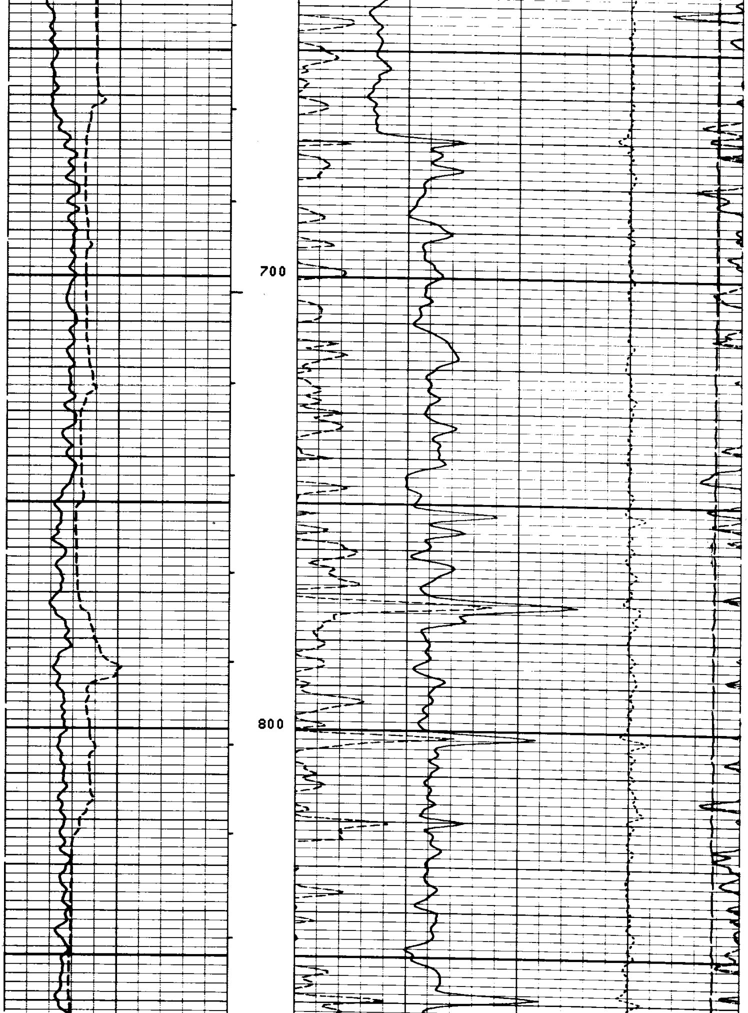
OUTPUT	**INTERVAL BETWEEN PIPS**	**DEPTH TRACK EDGE**
IHV	**10.0000 F3**	**LEFT EDGE**

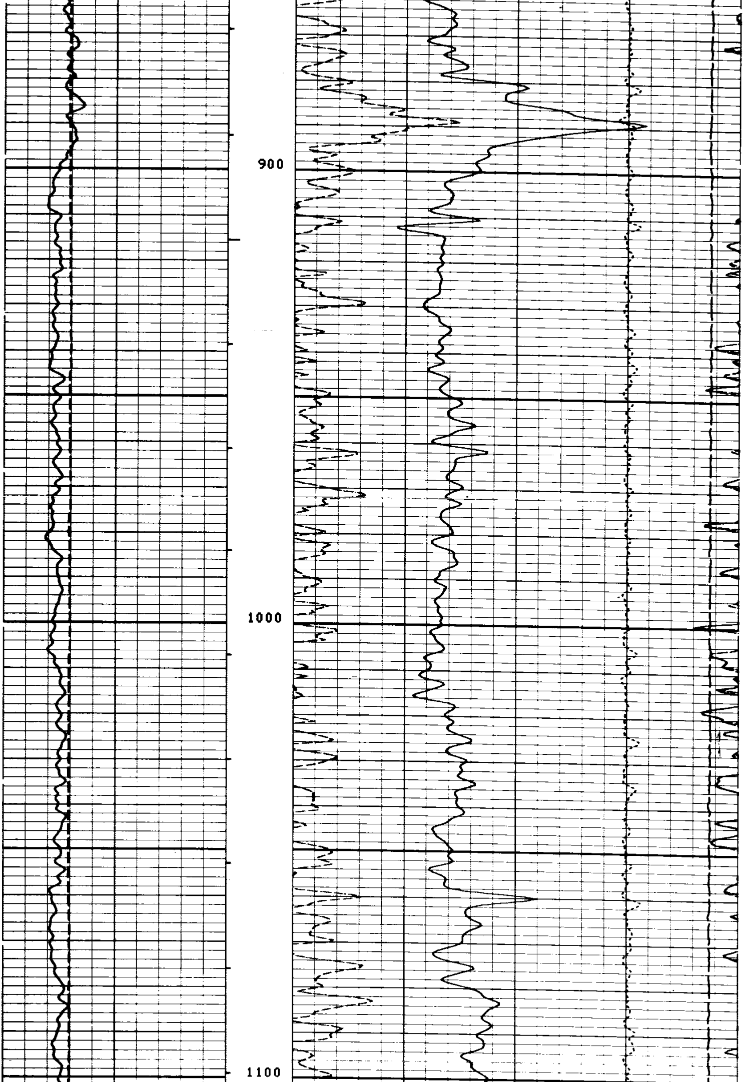
TENS(LB)	10000.	0.0
DRHO(G/C3)	-.2500	.25000
DPHI	1.2000	.60000
NPHI	1.2000	.60000
NPHI	.60000	0.0
DPHI	.60000	0.0
CALI(IN)	6.0000	16.000
GR (GAPI)	0.0	150.00

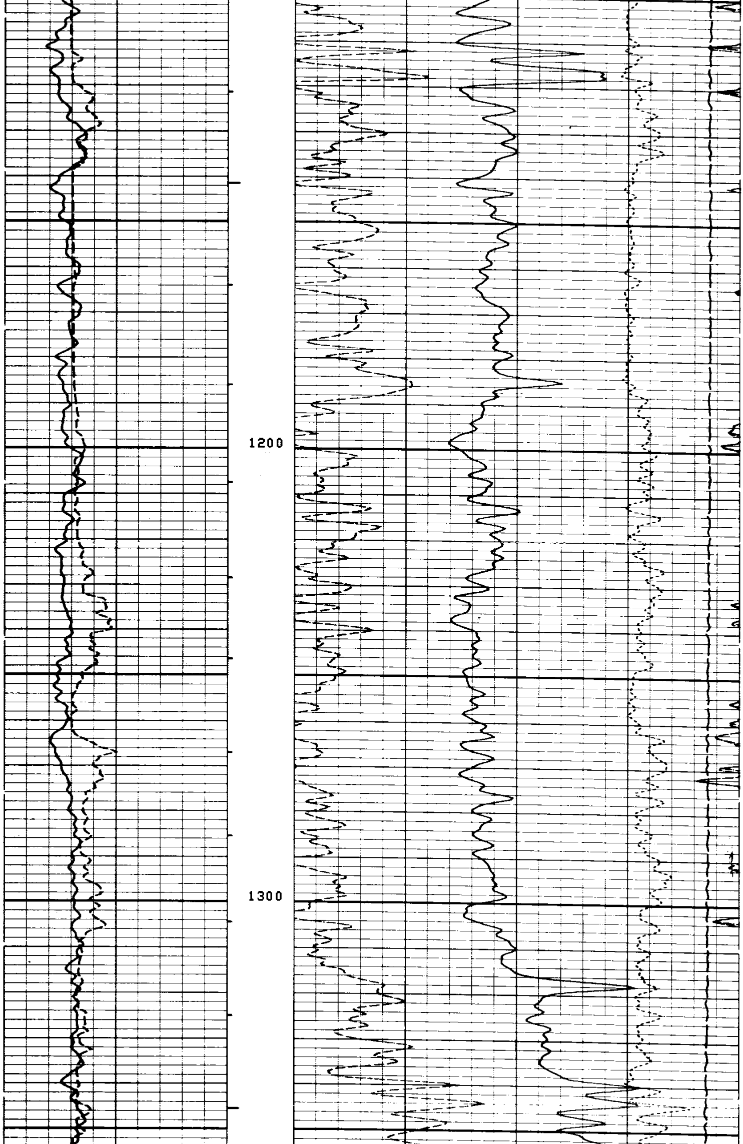
CP 28.2A FILE 3 23-NOV-85 06:57

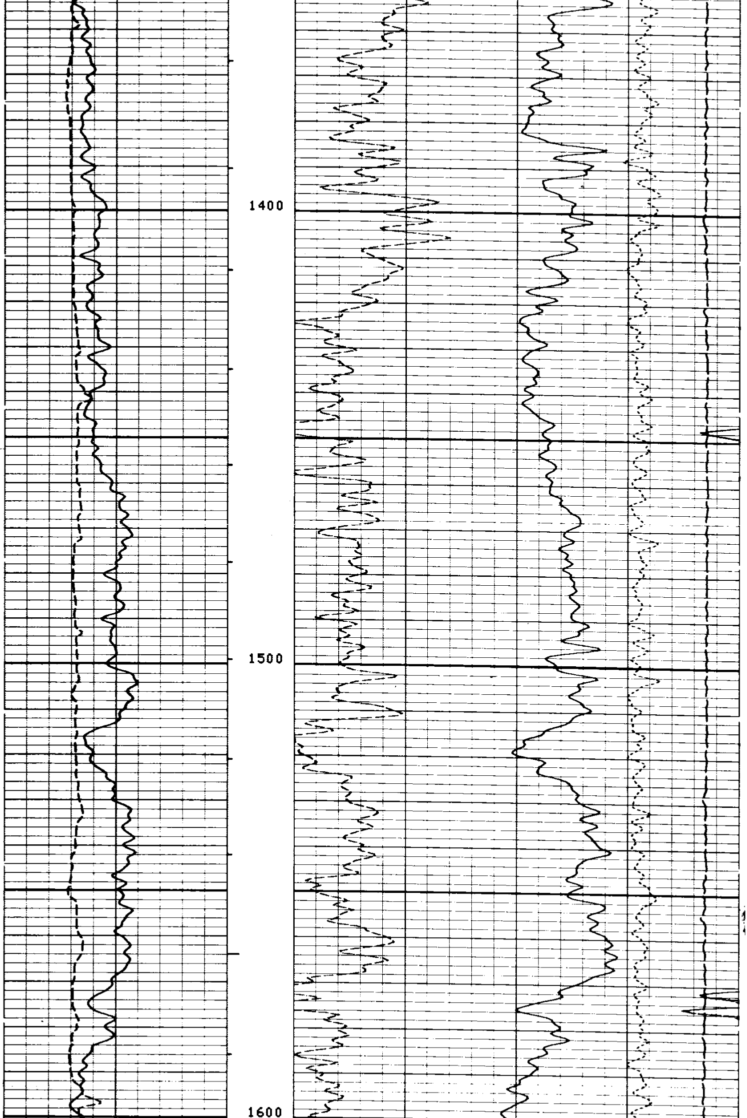


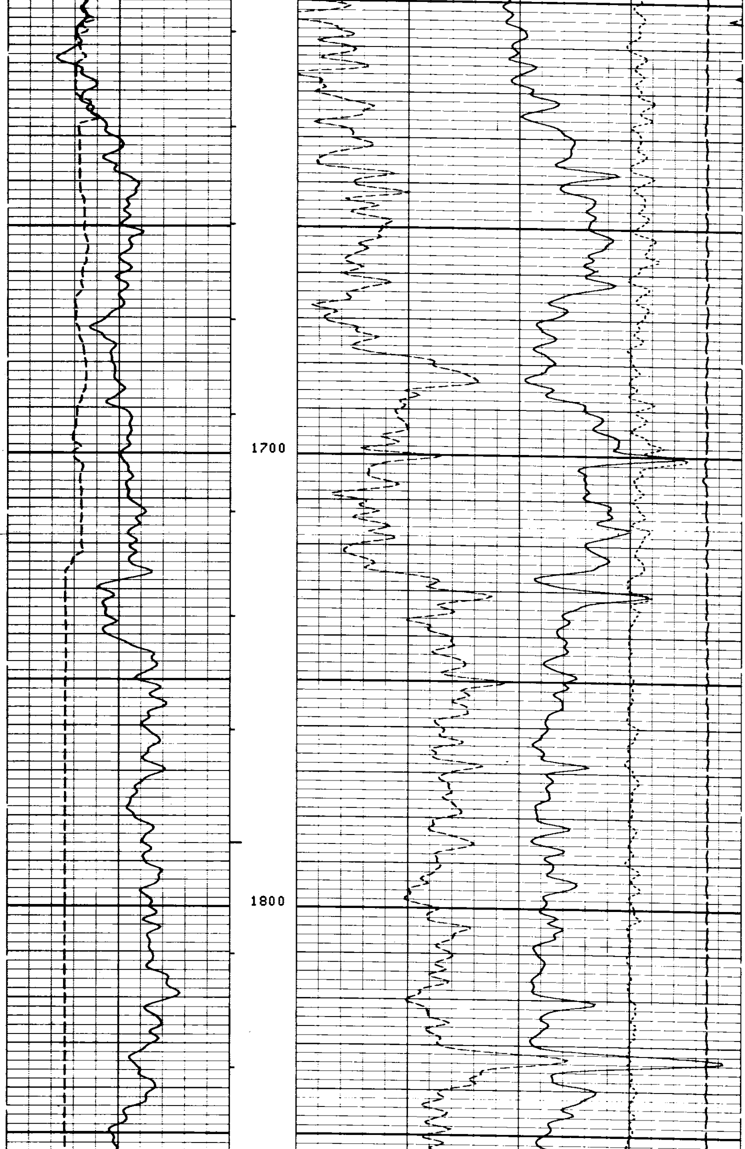


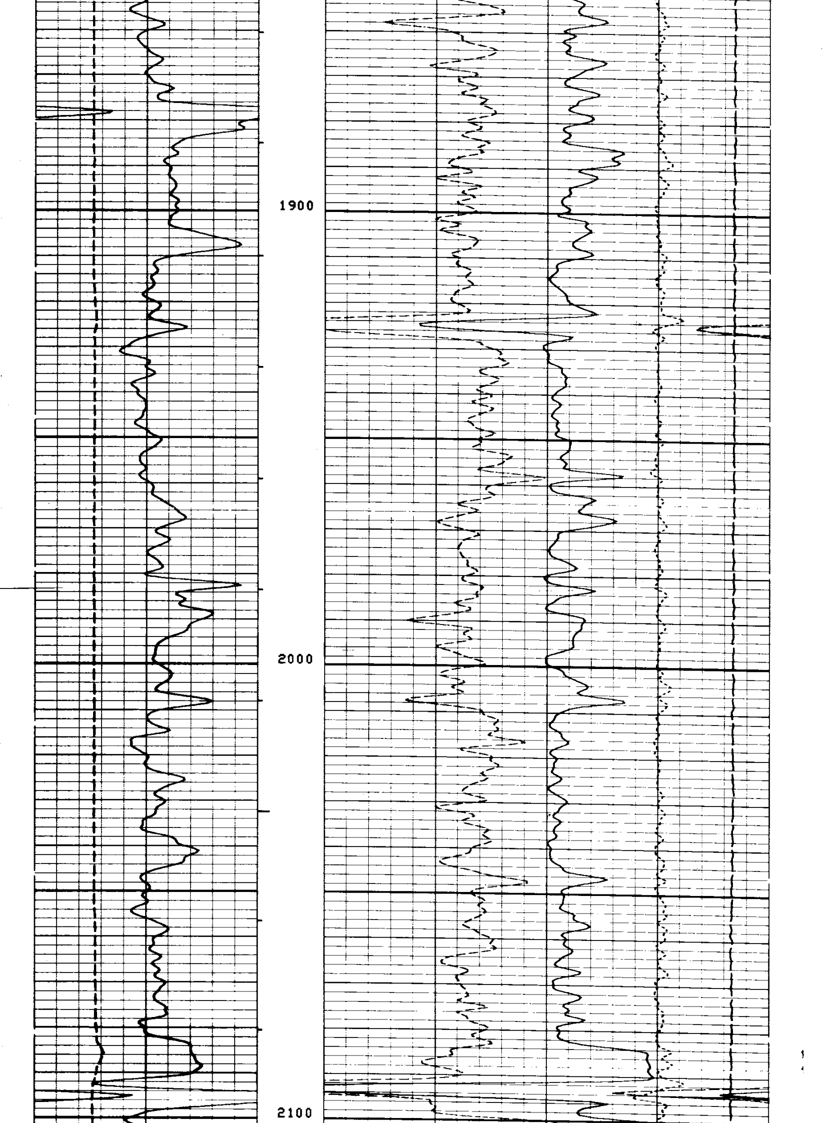


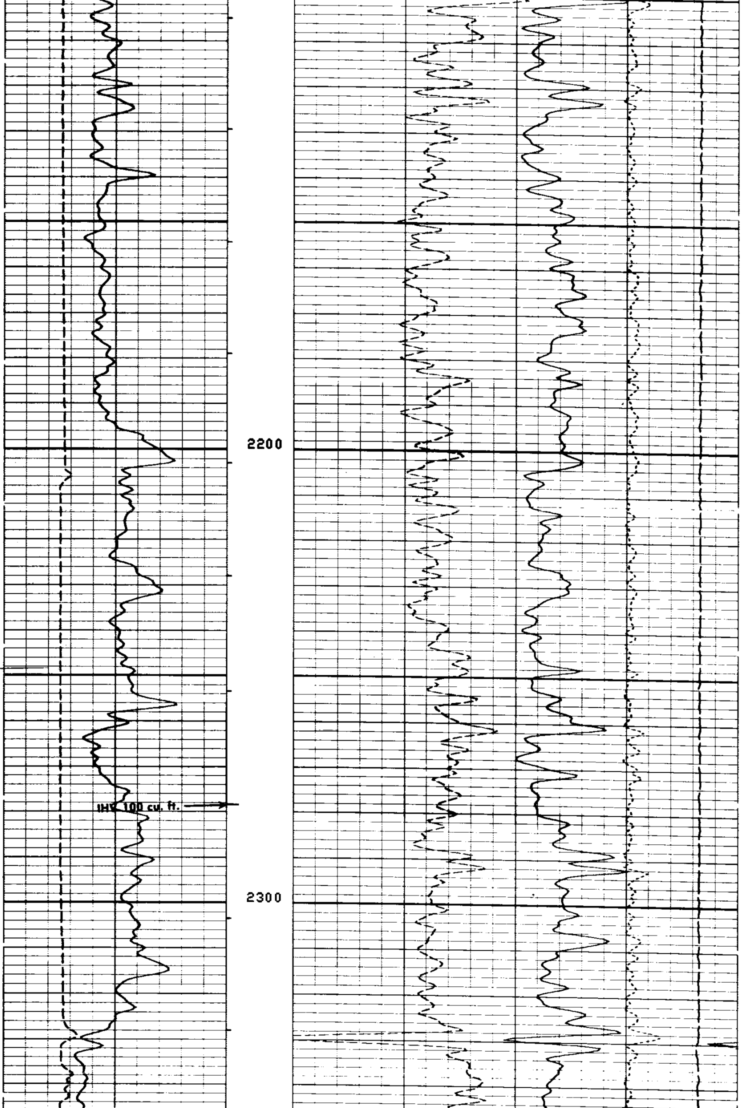


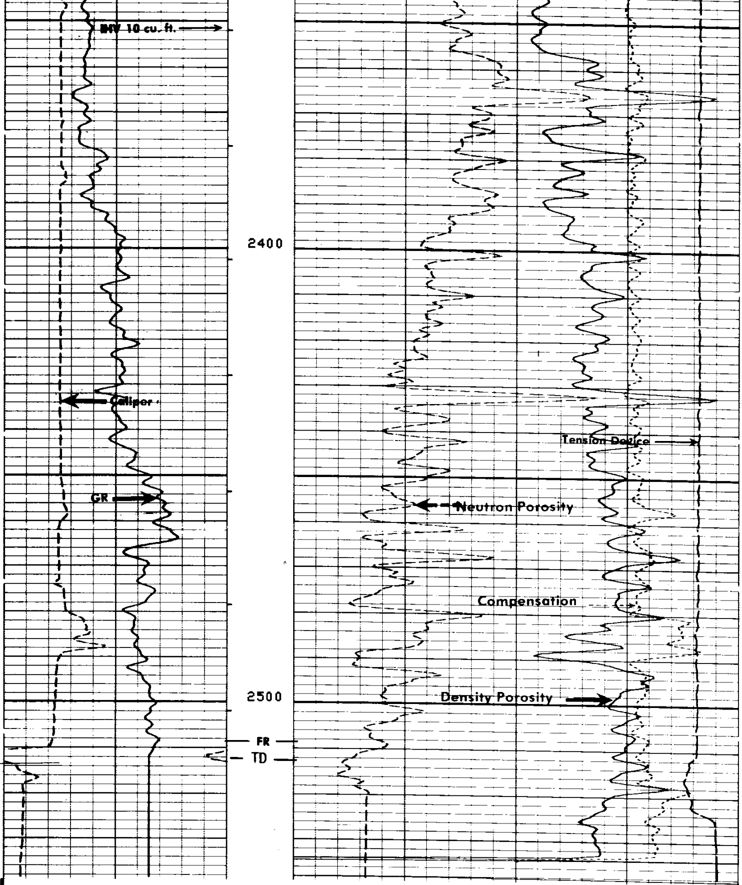












CP 28.2A FILE 3 23-NOV-85 05:52

TENS(LB)
10000. 0.0
DRHO(G/C3)
-.2500 .25000
DPHI
1.2000 .60000
NPHI
1.2000 .60000
CALI(IN)
6.0000 16.000
NPHI
.60000 0.0
GR (GAPI)
0.0 150.00
DPHI
.60000 0.0

SENSOR MEASURE POINT TO TOOL ZERO

```
FCNL 18.1  FEET                                  GR    26.6  FEET
FFDC  2.7  FEET                                  NCNL  18.1  FEET
CALI  2.7  FEET                                  NFDC   2.7  FEET
NRAT 18.1  FEET                                  TENS   -.3  FEET
```

PARAMETERS

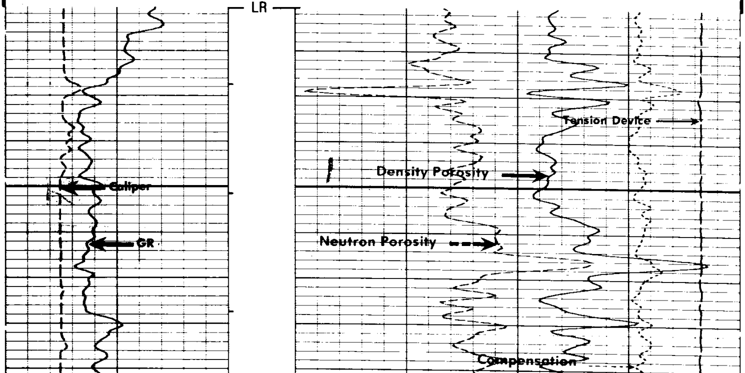
```
NAME  VALUE       UNIT                    NAME  VALUE      UNIT

HC    CALI                                PSNR 2.30000
FD    1.00000     G/C3                    MATR SAND
FDCC  ALLO                                MDEN 2.65000     G/C3
WMUD  10.2000     LB/G                    BHF  WATE
BHS   OPEN                                CSIZ 9.62500     IN
BS    8.75000     IN
```

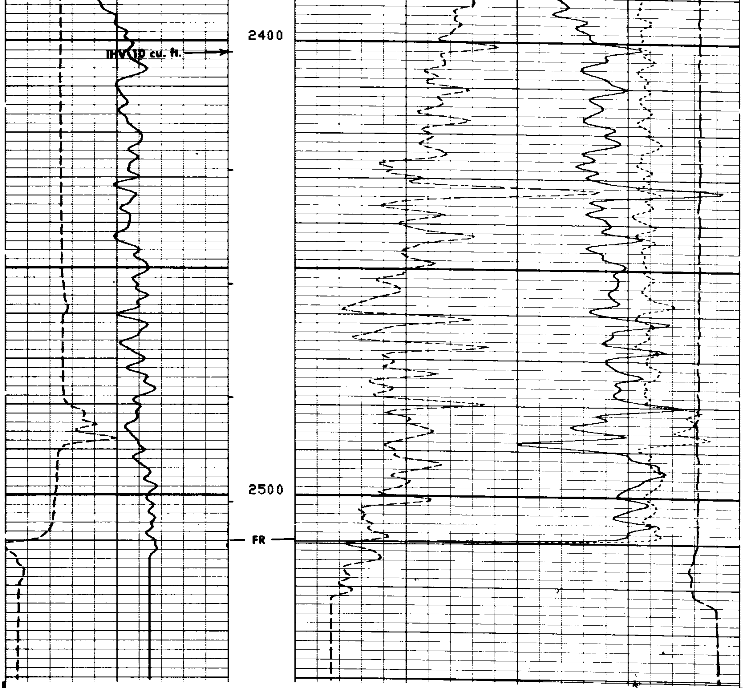
```
EVENT MARK SUMMARY:

OUTPUT  INTERVAL       DEPTH TRACK
        BETWEEN PIPS   EDGE

IHV     10.0000 F3     LEFT EDGE
```

```
                                                              TENS(LB   )
                                                      10000.                  0.0
                                                               DRHO(G/C3)
                                                      -.2500                .25000
                                            DPHI
                               1.2000                                       .60000
                                            NPHI
                               1.2000                                       .60000
       CALI(IN  )                           NPHI
6.0000           16.000        .60000                                          0.0
       GR   (GAPI)                          DPHI
0.0              150.00        .60000                                          0.0
```

REPEAT SECTION

CP 28.2A   FILE   2   23-NOV-85 05:42





CP 28.2A FILE 2 23-NOV-85 05:34

TENS(LB)
10000. 0.0
DRHO(G/C3)
-.2500 .25000
DPHI
1.2000 .60000
NPHI
1.2000 .60000
CALI(IN)
6.0000 16.000
NPHI
.60000 0.0
GR (GAPI)
0.0 150.00
DPHI
.60000 0.0

SENSOR MEASURE POINT TO TOOL ZERO

FCNL	18.1	FEET	GR	26.6	FEET
FFDC	2.7	FEET	NCNL	18.1	FEET
CALI	2.7	FEET	NFDC	2.7	FEET
NRAT	18.1	FEET	TENS	-.3	FEET

PARAMETERS

NAME	VALUE	UNIT	NAME	VALUE	UNIT

```
      HC   CALI                                       PSNR 2.30000
      FD   1.00000      G/C3                          MATR SAND
      FDCC ALLO                                       MDEN 2.65000      G/C3
      WMUD 10.2000      LB/G                          BHF  WATE
      BHS  OPEN                                       CSIZ 9.62500      IN
      BS   8.75000      IN

                BEFORE SURVEY CALIBRATION SUMMARY


   PERFORMED:     23-NOV-85 05:08
   PROGRAM FILE: ISN    (VERSION    28.2A   85/10/26)


  SGTE                  DETECTOR CALIBRATION SUMMARY

             MEASURED
           BKGD    JIG           CALIBRATED         UNITS
    GR      32     199              164             GAPI


  CNTA                  DETECTOR CALIBRATION SUMMARY

              TANK                              JIG
          INPUT   CALIBRATED           MEASURED    CALIBRATED
   NRAT   2.30000  2.158                2.375        2.229


  PGTK                  DETECTOR CALIBRATION SUMMARY

  GAIN COMPUTED FROM SHOP BLOCK COUNTS

              BLOCK                              JIG
          INPUT   CALIBRATED           MEASURED    CALIBRATED     UNITS
   FFDC    497       337                 498          338
   NFDC   1072       528                1037          511


  PGTK                  CALIPER CALIBRATION SUMMARY

             MEASURED                          CALIBRATED
           SMALL    LARGE                  SMALL      LARGE        UNITS
   CALI    9.71     15.7                   6.00       12.0          IN

    CP 28.2A             FILE     1       23-NOV-85 05:07


                AFTER SURVEY TOOL CHECK SUMMARY


   PERFORMED:     23-NOV-85 07:00
   PROGRAM FILE: ISN    (VERSION    28.2A   85/10/26)


  CNTA                        TOOL  CHECK

                       JIG
              BEFORE       AFTER
   NRAT       2.229        2.238

   POROSITY CHANGE  (LIME):   .002


  PGTK                        TOOL  CHECK

                       JIG
              BEFORE       AFTER      UNITS
   FFDC        338          340        CPS
   NFDC        511          513        CPS

   RHOB  CHANGE (WATER):  -.002 G/C3
```

```
   CP 28.2A           FILE    5      23-NOV-85 07:00

                      SHOP SUMMARY


  PERFORMED:      20-NOV-85 10:20
  PROGRAM FILE: SHOP   (VERSION     28.2A   85/07/10)

 CNTA                   DETECTOR CALIBRATION SUMMARY

                 TANK                            JIG
       MEASURED  CALIBRATED        MEASURED   CALIBRATED

  NRAT     2.300       2.158          2.306        2.165

                        (CNC:1132, CNB:3200)


                      SHOP SUMMARY


  PERFORMED:      20-NOV-85 16:00
  PROGRAM FILE: SHOP   (VERSION     28.2A   85/07/10)

 PGTK                   DETECTOR CALIBRATION SUMMARY

                 BLOCK                           JIG
       MEASURED   CALIBRATED     MEASURED   CALIBRATED     UNITS

  FFDC   497          337            512        348          CPS
  NFDC  1072          528           1031        508          CPS

            (PGS:542 , PDH:1244, GSR:8016, SFT :1171)
```