CC 23-19-65

Schlumberger

5" FDC/CNL/GR

CSU Field Log

COMPANY: ARCO EXPLORATION COMPANY

WELL: "COLUMBIA COUNTY" #23-19

FIELD: MIST-WILDCAT
COUNTY: COLUMBIA
STATE: OREGON
NATION: U.S.A.
LOCATION: 2097.6'E AND 356.66'S
FR WEST 1/4 CORNER
SEC: 19 TWP: 6N RGE: 5W

PERMANENT DATUM: GL
ELEV. OF PERM. DATUM: 754.1 F
LOG MEASURED FROM: KB
11.0 F ABOVE PERM. DATUM
DRLG. MEASURED FROM: KB

ELEVATIONS-
KB: 765.1 F
DF: 764.1 F
GL: 754.1 F

DATE: 10 JUL 85
RUN NO: 1

DEPTH-DRILLER: 3435.0 F
DEPTH-LOGGER: 3426.0 F
BTM. LOG INTERVAL: 3424.0 F
TOP LOG INTERVAL: 30.0 F

CASING-DRILLER: 420 F
CASING-LOGGER: 420 F
CASING: 9 5/8"

BIT SIZE: 8 3/4"
DEPTH: 3435 F

RECEIVED - PTLD
JUL 11 1985
DEPT. OF GEOLOGY & MINERAL INDUS.

OTHER SERVICES-
DIL BHC
FDC-CNL-GR
HDT
CST

API SERIAL NO:
36-009-001

PROGRAM
TAPE NO:
26.2
SERVICE
ORDER NO:
431981

TYPE FLUID IN HOLE: LIGNITE/DESCO
DENSITY: 10.3 LB/G
VISCOSITY: 45.0 S
PH: 8.8
FLUID LOSS: 4.2 C3
SOURCE OF SAMPLE: FLOWLINE
RM: 1.770 OHMM AT 75.0 DEGF
RMF: 2.450 OHMM AT 65.0 DEGF
RMC: 2.330 OHMM AT 65.0 DEGF
SOURCE RMF/RMC: MEASURED/MEASURED
RM AT BHT: 1.170 OHMM AT 117. DEGF
RMF AT BHT: 1.422 OHMM AT 117. DEGF
RMC AT BHT: 1.352 OHMM AT 117. DEGF

TIME CIRC. STOPPED: 7/10 1130
TIME LOGGER ON BTM.: 1827

MAX. REC. TEMP: 117.0 DEGF

LOGGING UNIT NO: 8057
LOGGING UNIT LOC: SACRAMENTO
RECORDED BY: ANDERSEN
WITNESSED BY: BUIKEMA

REMARKS:

950 PPM CHLORIDES
INDUCTION AND SONIC RUN IN COMBINATION.

EQUIPMENT NUMBERS-

PGS 542	PDH 1244	NLM 207	CNC 1132
SGC 3206			

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 21 10-JUL-85 20:47
DATA ACQUIRED 00- -00 00:00

CHANGED PARAMETERS

NAME	VALUE	UNIT	DEPTH (F)	NAME	VALUE	UNIT	DEPTH (F)
BHS	CASE		418.5				

TENS(LB)
10000. 0.0

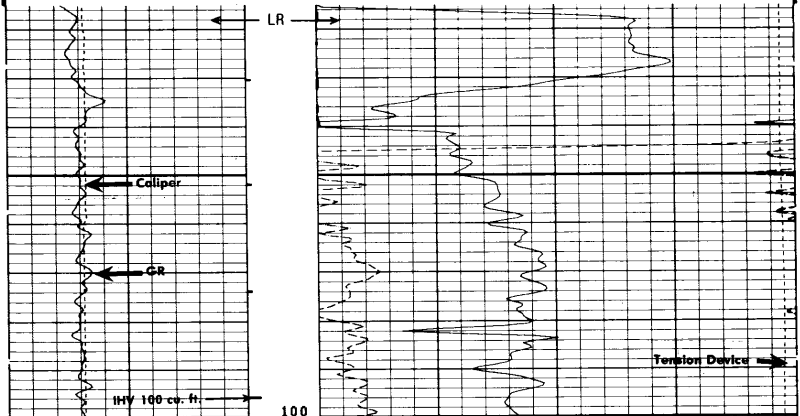
CALI(IN)
6.0000 16.000

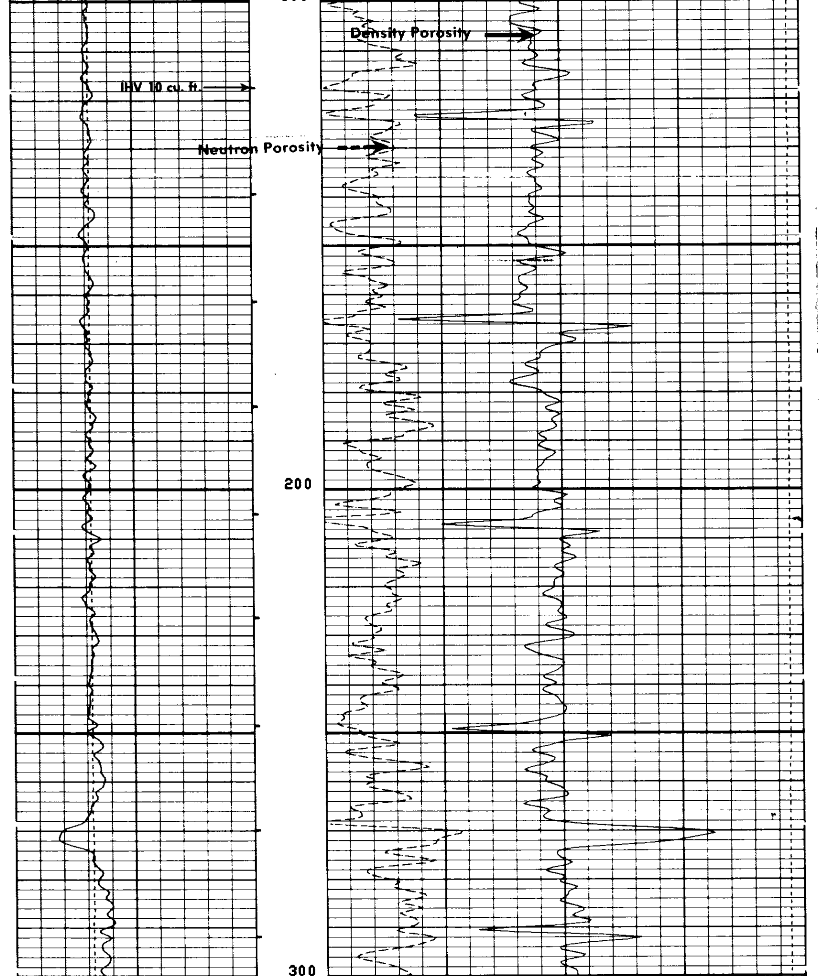
DPHI
.60000 0.0

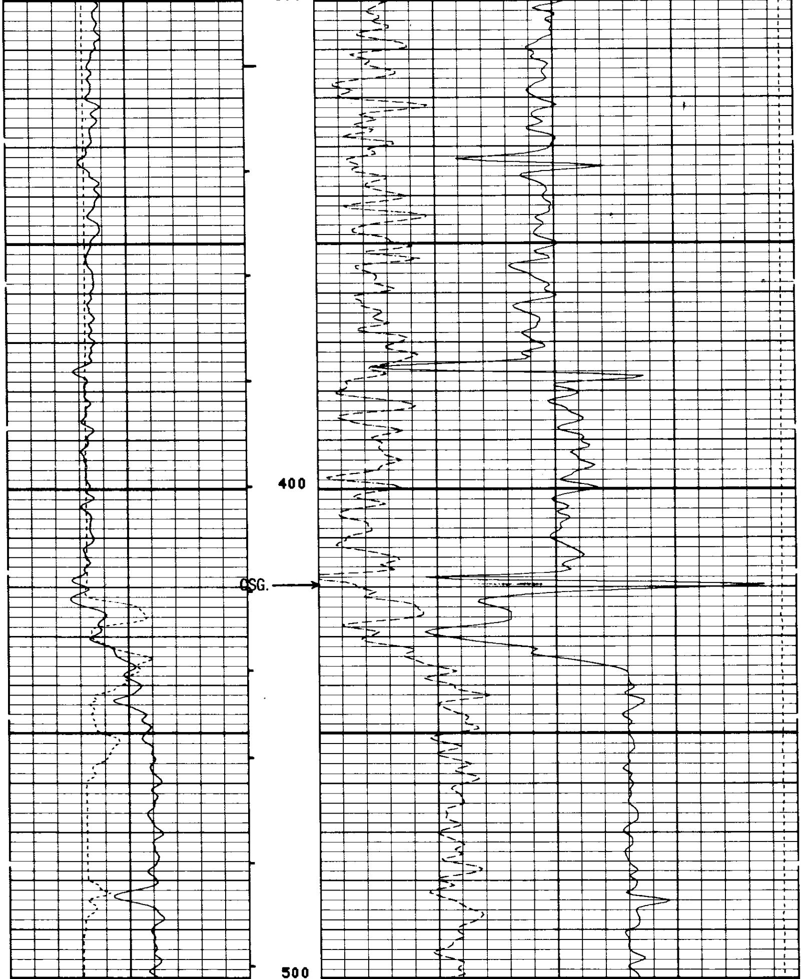
GR (GAPI)
0.0 150.00

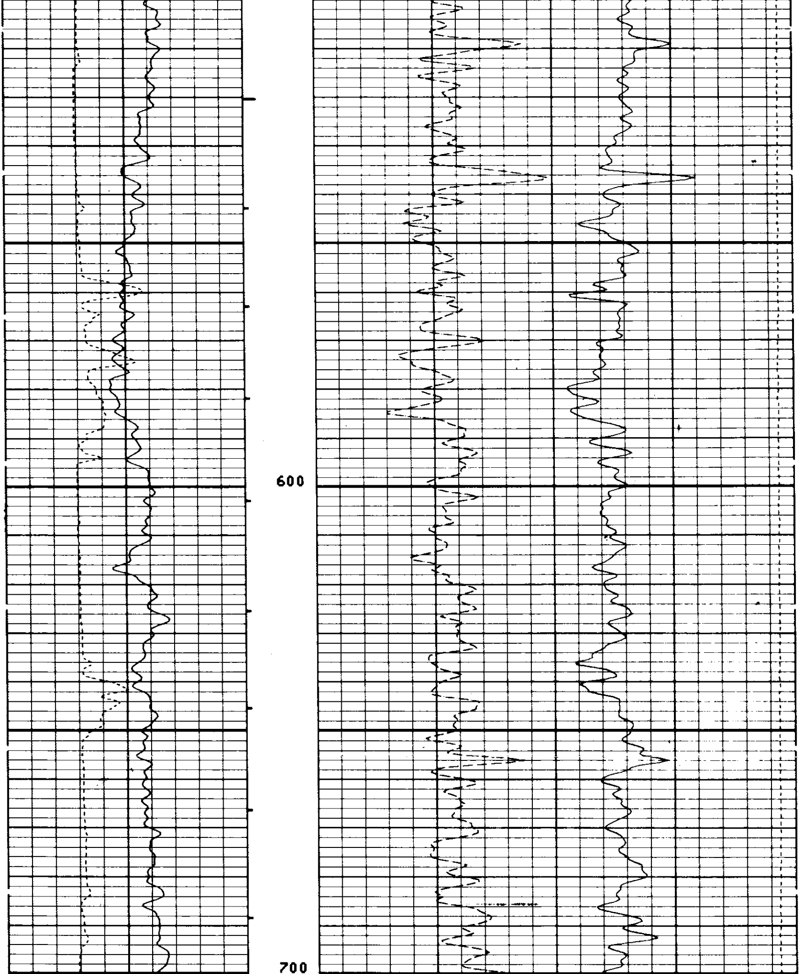
NPHI
.60000 0.0

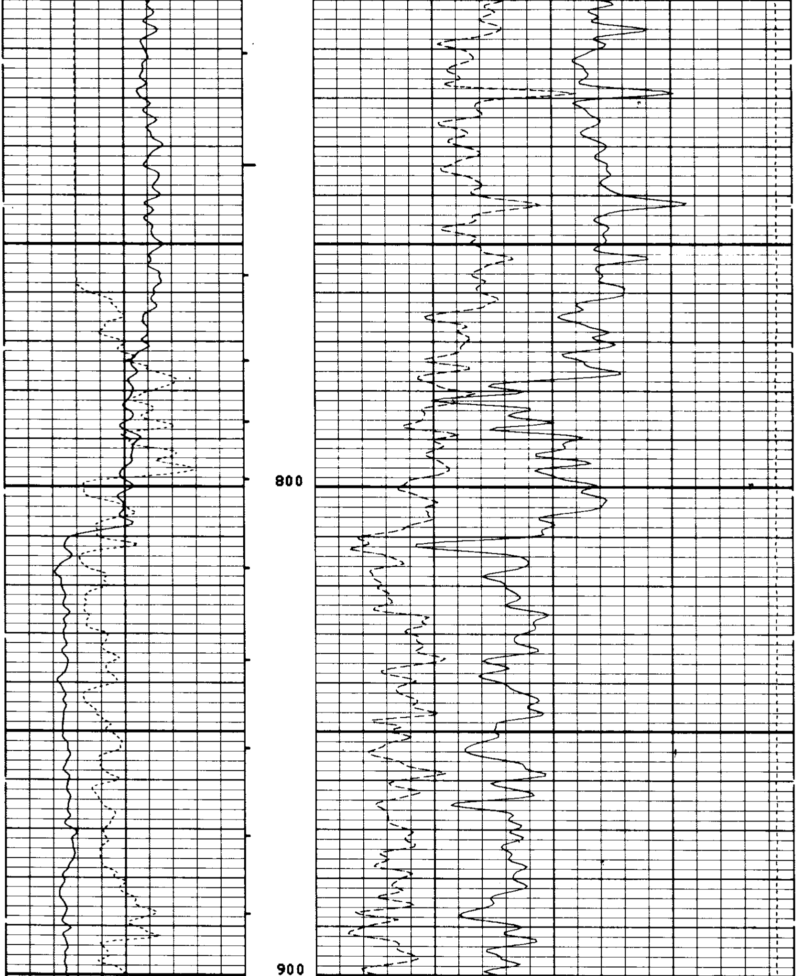
FILE 18 10-JUL-85 20:25

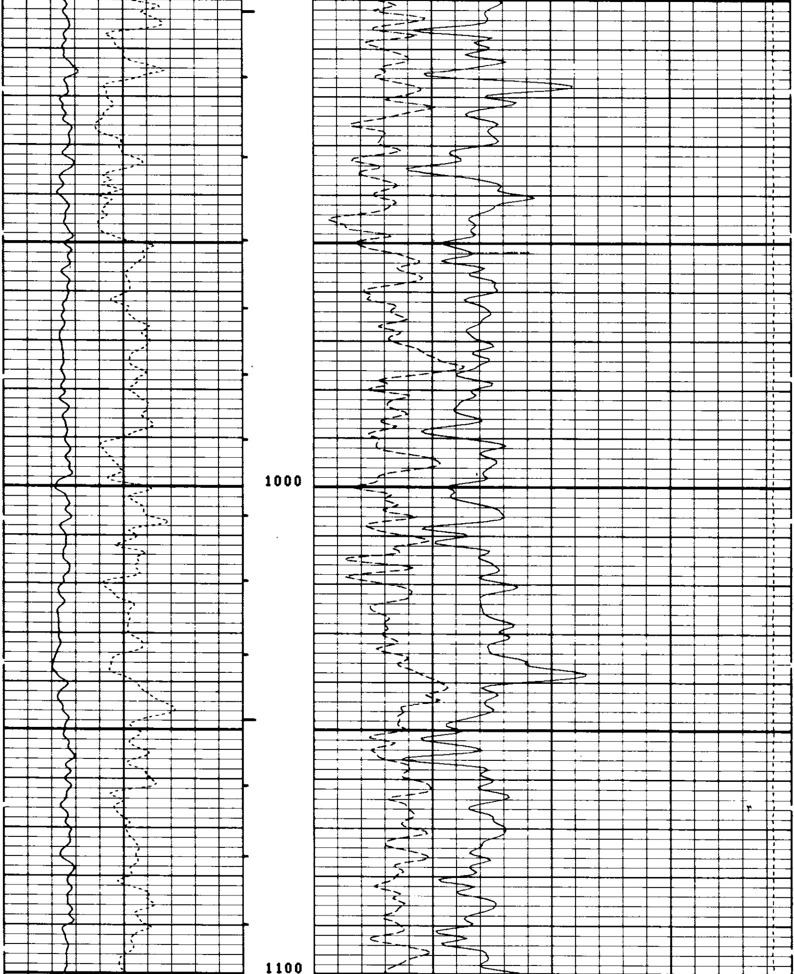


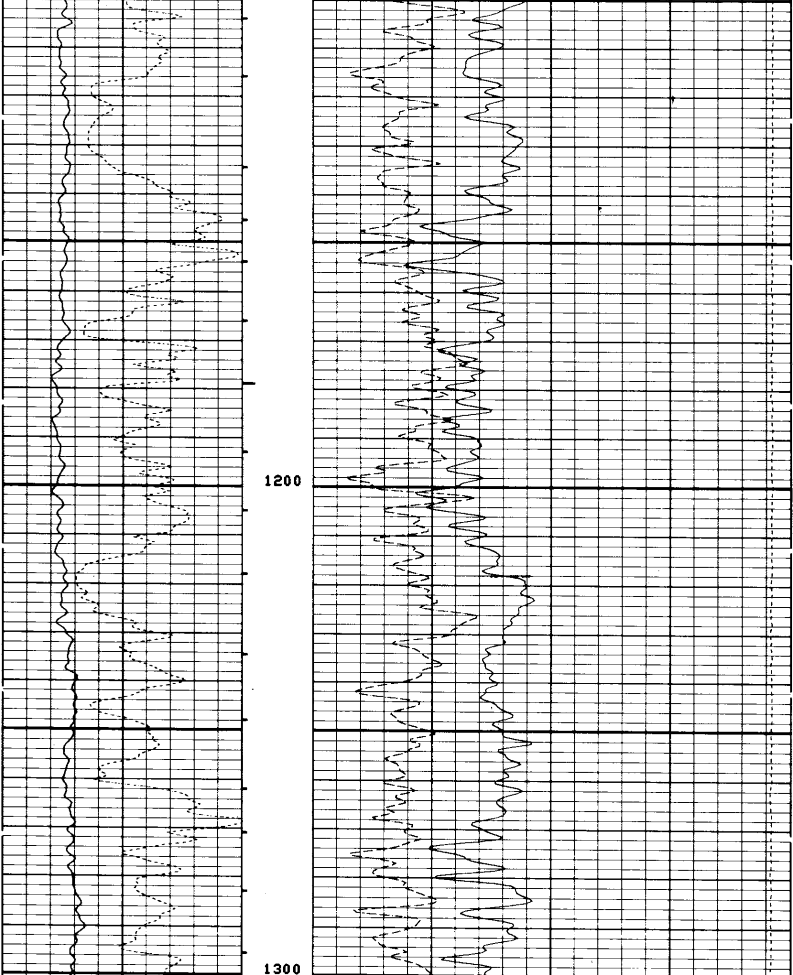


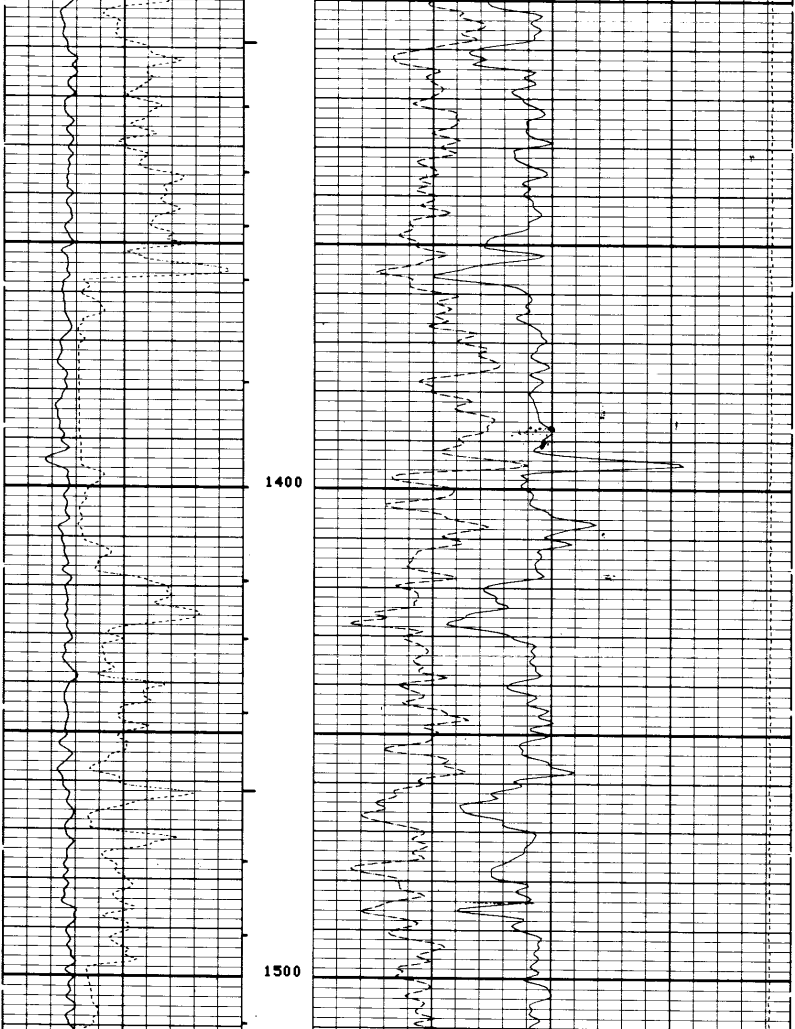


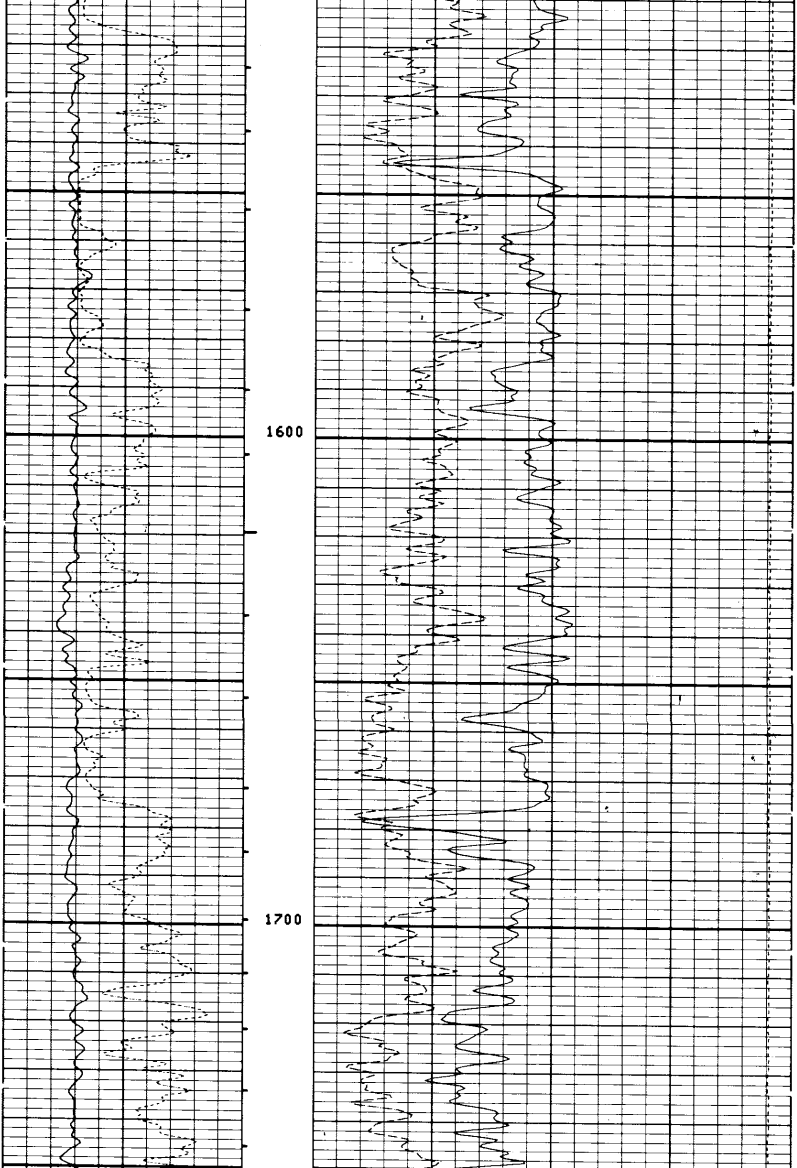


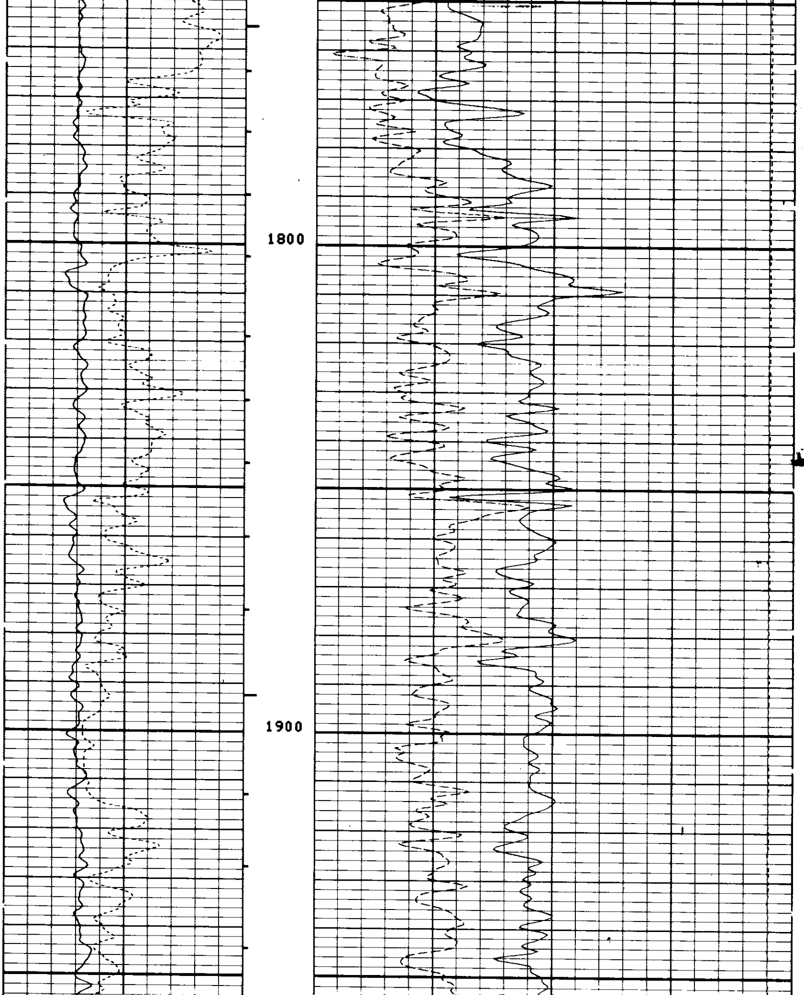


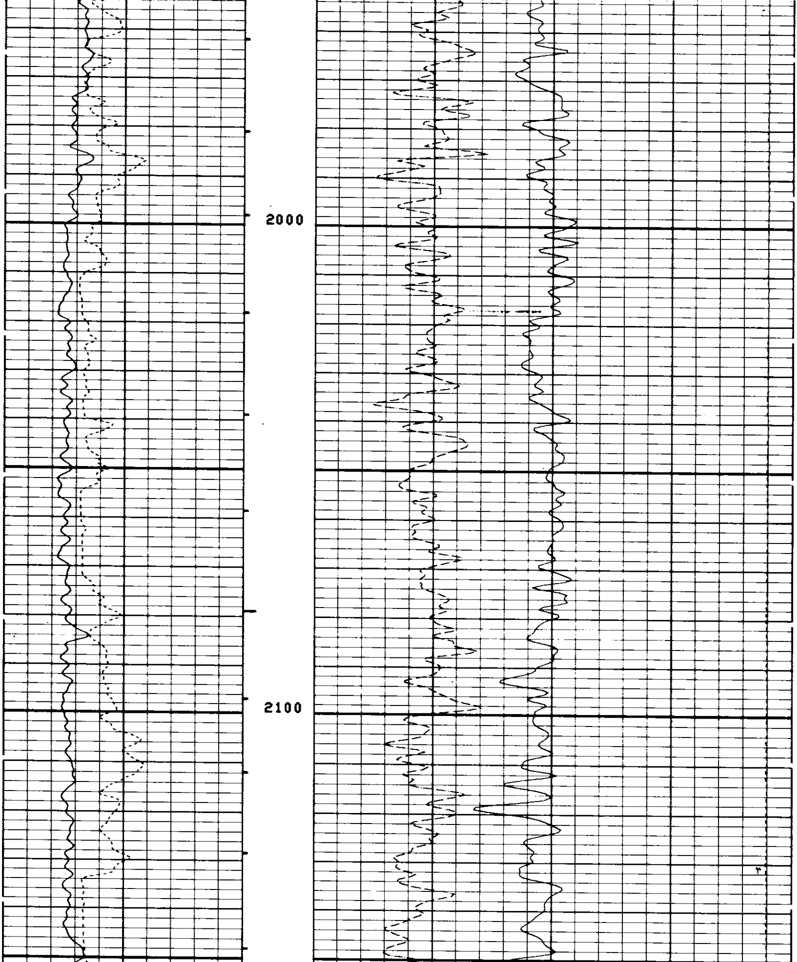


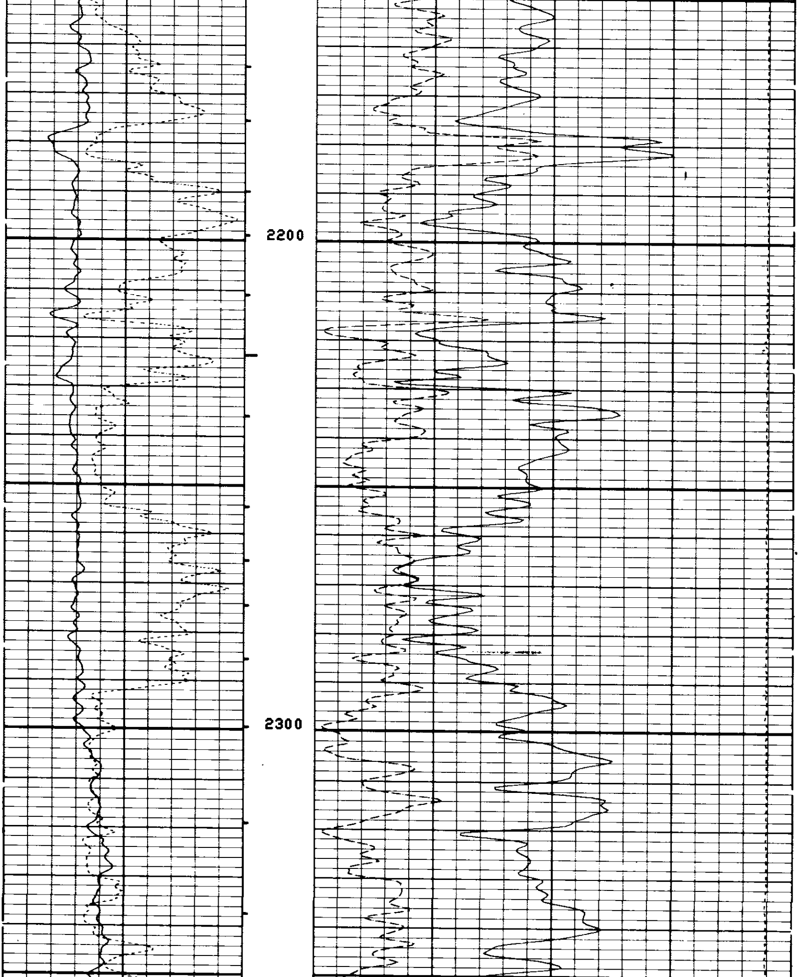


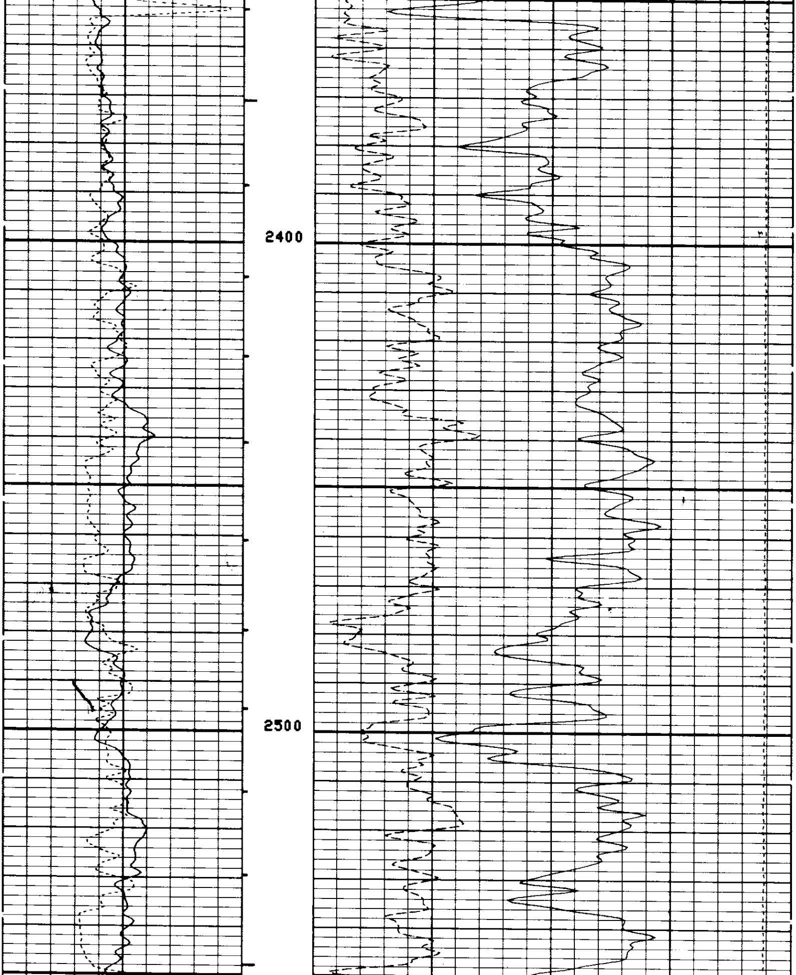


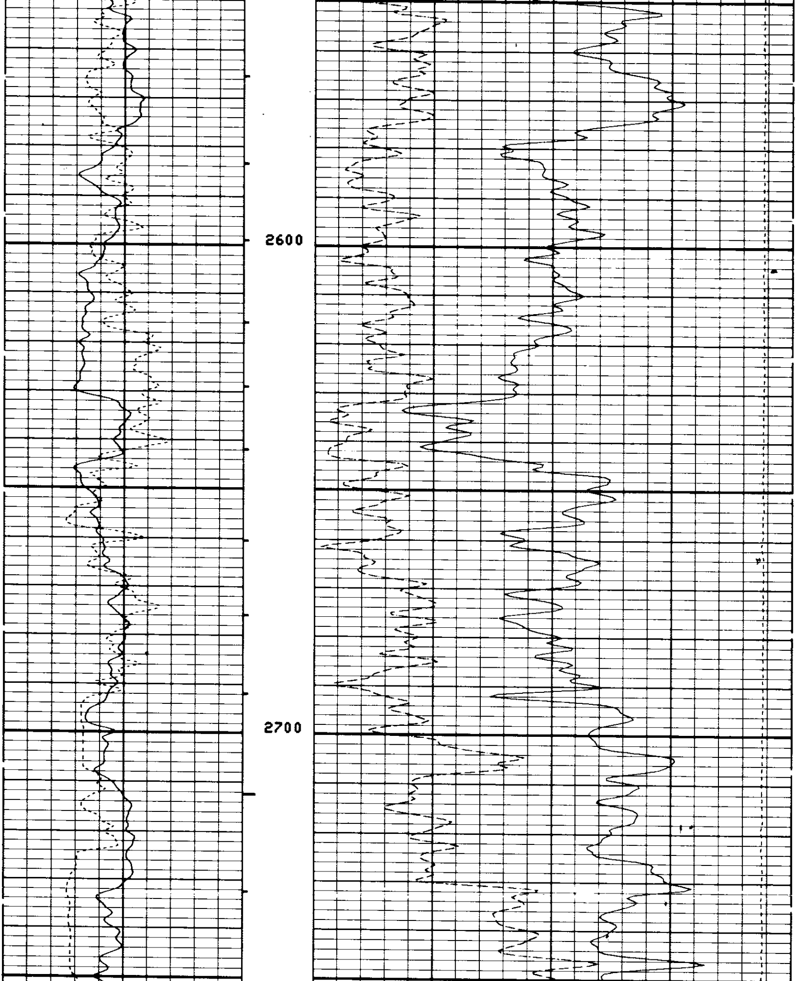


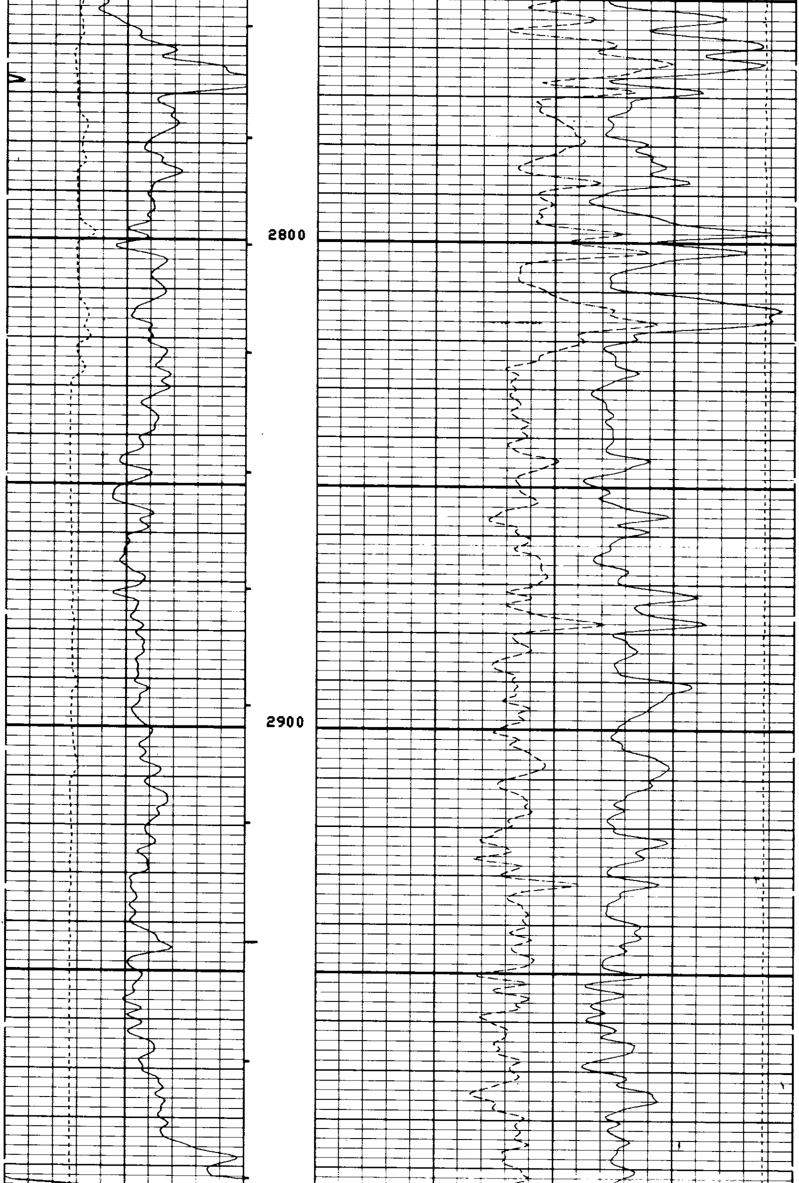


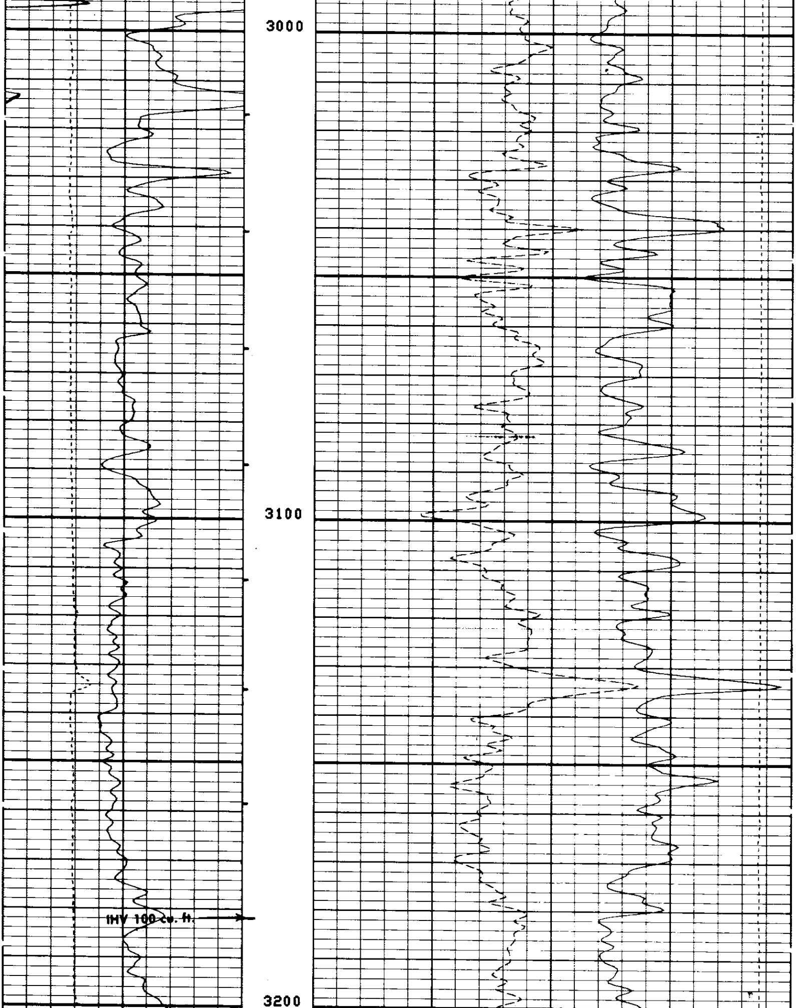


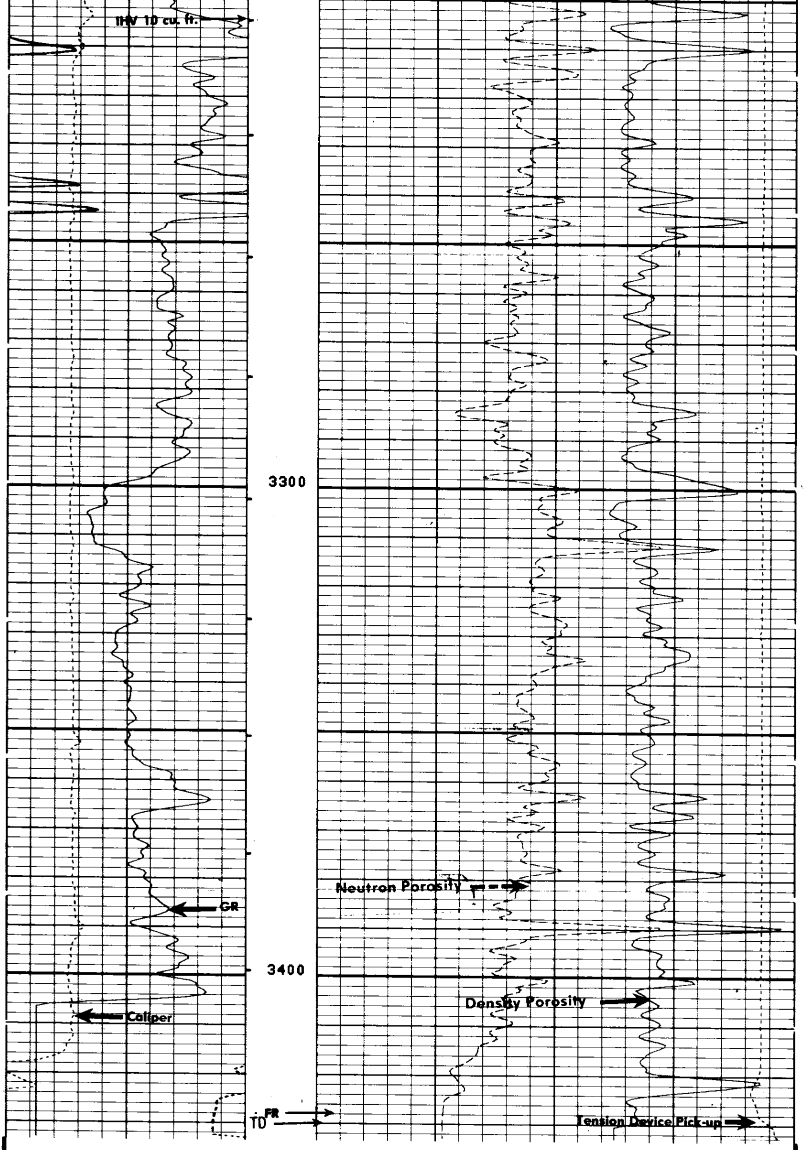












FILE 18 10-JUL-85 18:27

CALI(IN)
6.0000 16.000
GR (GAPI)
0.0 150.00

TENS(LB)
10000. 0.0
DPHI
.60000 0.0
NPHI
.60000 0.0

SENSOR MEASURE POINT TO TOOL ZERO

NCNL	18.0	FEET	GR	26.5	FEET
FFDC	2.7	FEET	FCNL	18.0	FEET
CALI	2.7	FEET	NFDC	2.7	FEET
NRAT	18.0	FEET	TENS	-.2	FEET

PARAMETERS

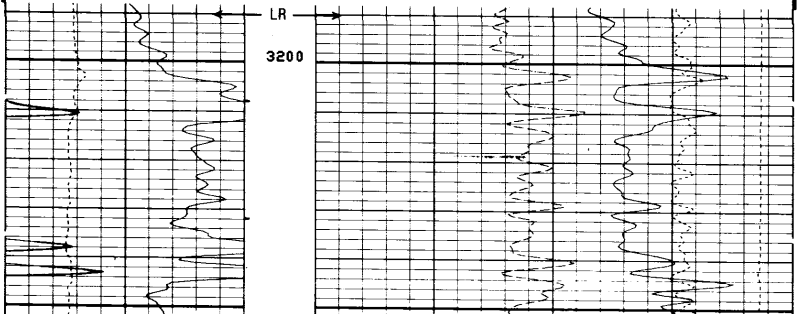
NAME	VALUE	UNIT	NAME	VALUE	UNIT
HC	CALI		PSNR	2.33700	
FD	1.00000	G/C3	MATR	SAND	
FDCC	ALLD		MDEN	2.65000	G/C3
FPHI	PHIX		BHF	WATE	
BS	8.75000	IN	BHS	OPEN	

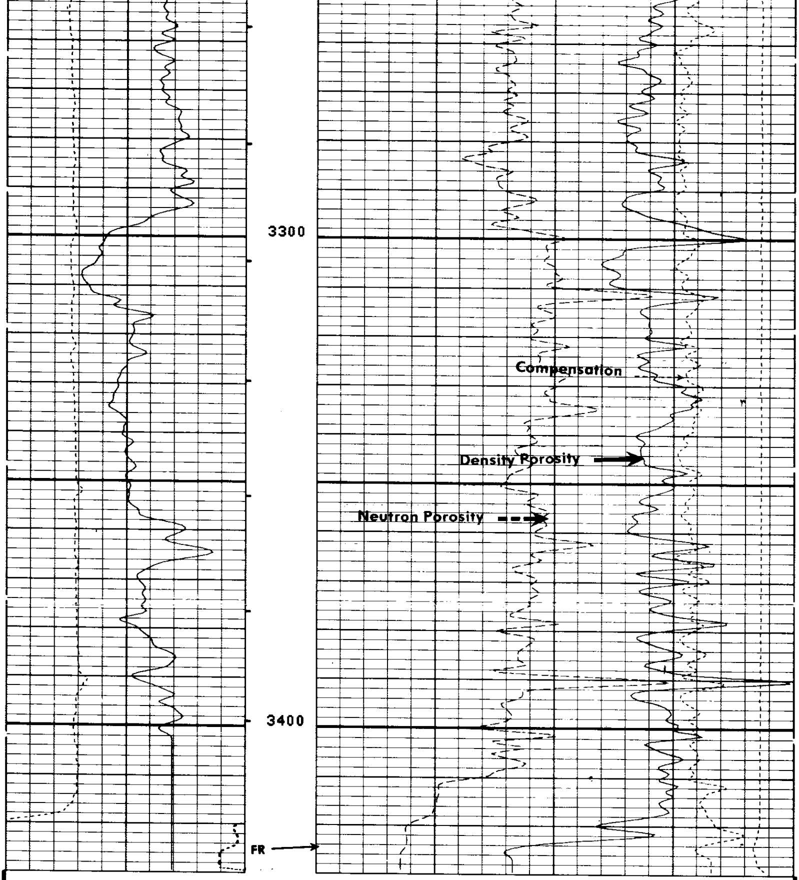
CALI(IN)
6.0000 16.000
GR (GAPI)
0.0 150.00

TENS(LB)
10000. 0.0
DRHO(G/C3)
-.2500 .25000
DPHI
.60000 0.0
NPHI
.60000 0.0

REPEAT SECTION

FILE 15 10-JUL-85 18:21





FILE 15 10-JUL-85 18:11 **REPEAT SECTION**

TENS(LB)
10000. 0.0
DRHO(G/C3)
-.2500 .25000

CALI(IN)
6.0000 16.000
GR (GAPI)
0.0 150.00

DPHI
.60000 0.0
NPHI
.60000 0.0

SENSOR MEASURE POINT TO TOOL ZERO

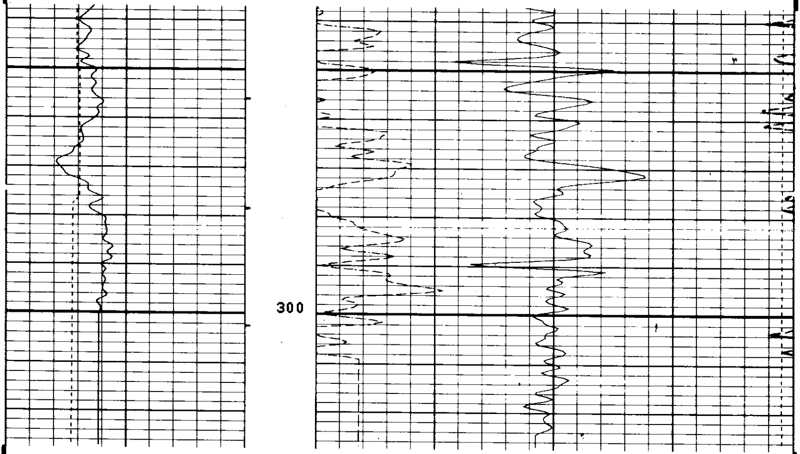
NCNL	18.0	FEET	GR	26.5	FEET
FFDC	2.7	FEET	FCNL	18.0	FEET
CALI	2.7	FEET	NFDC	2.7	FEET
NRAT	18.0	FEET	TENS	-.2	FEET

PARAMETERS

NAME	VALUE	UNIT	NAME	VALUE	UNIT
HC	CALI		PSNR	2.33700	
FD	1.00000	G/C3	MATR	SAND	
FDCC	ALLO		MDEN	2.65000	G/C3
FPHI	PHIX		BHF	WATE	
BS	8.75000	IN	BHS	OPEN	

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

FILE 14 10-JUL-85 17:57



FILE 14 10-JUL-85 17:55

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

SENSOR MEASURE POINT TO TOOL ZERO

```
           NCNL 18.0  FEET                           GR   26.5  FEET
           FFDC  2.7  FEET                           FCNL 18.0  FEET
           CALI  2.7  FEET                           NFDC  2.7  FEET
           NRAT 18.0  FEET                           TENS  -.2  FEET

                                PARAMETERS

           NAME  VALUE     UNIT                       NAME  VALUE     UNIT

           HC    CALI                                 PSNR 2.33700
           FD    1.00000   G/C3                       MATR SAND
           FDCC  ALLO                                 MDEN 2.65000   G/C3
           FPHI  PHIX                                 BHF  WATE
           BS    8.75000   IN                         BHS  OPEN
                 BEFORE SURVEY CALIBRATION SUMMARY


     PERFORMED:      85/07/10
     PROGRAM FILE: ISN     (VERSION    26.2    83/11/17)


   SGTE                DETECTOR CALIBRATION SUMMARY

                MEASURED
              BKGD     JIG          CALIBRATED           UNITS
      GR       32      198             165               GAPI


   CNTA                DETECTOR CALIBRATION SUMMARY

                 TANK                            JIG
             INPUT   CALIBRATED         MEASURED    CALIBRATED
     NRAT    2.33700  2.158              2.193        2.025


   PGTK                DETECTOR CALIBRATION SUMMARY

                 BLOCK                           JIG
             INPUT   CALIBRATED         MEASURED    CALIBRATED     UNITS
     FFDC     494       337               437          298         CPS
     NFDC    1081       528              1005          491         CPS


   PGTK                CALIPER CALIBRATION SUMMARY

                MEASURED                       CALIBRATED
              SMALL    LARGE               SMALL      LARGE        UNITS
     CALI     12.0     15.9                 8.0       12.0          IN

                        FILE   12       10-JUL-85 17:36
                 AFTER SURVEY TOOL CHECK SUMMARY


     PERFORMED:      85/07/10
     PROGRAM FILE: ISN     (VERSION    26.2    83/11/17)


   CNTA                      TOOL   CHECK

                         JIG
                 BEFORE        AFTER
     NRAT        2.025         2.016

     POROSITY CHANGE  (LIME):  -.000


   PGTK                      TOOL   CHECK
```

```
                         JIG
                  BEFORE        AFTER      UNITS
   FFDC            298           295        CPS
   NFDC            491           490        CPS

   RHOB   CHANGE (WATER):    .003 G/C3

                        FILE   20        10-JUL-85 20:46
                 SHOP SUMMARY


  PERFORMED:       85/06/28
  PROGRAM FILE: SHOP   (VERSION     24.2     83/03/29)


 CNTA                DETECTOR CALIBRATION SUMMARY

                TANK                              JIG
          MEASURED  CALIBRATED         MEASURED   CALIBRATED

   NRAT     2.337       2.158            2.193        2.025

                        (CNC:1132[illegible] CNB:2124)

                 SHOP SUMMARY


  PERFORMED:       85/06/28
  PROGRAM FILE: SHOP    (VERSION     24.2     83/03/29)


 PGTE                DETECTOR CALIBRATION SUMMARY

               BLOCK                              JIG
          MEASURED   CALIBRATED       MEASURED   CALIBRATED       UNITS

  FFDC     494          337             452          308           CPS
  NFDC    1081          528            1012          494           CPS

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


 PGTE                CALIPER CALIBRATION SUMMARY

               MEASURED                          CALIBRATED
          SMALL     LARGE                    SMALL       LARGE          UNITS
  CALI     0.0       0.0                      0.0         0.0             IN
```