Schlumberger

DIPMETER

CSU

COMPANY: ARCO EXPLORATION COMPANY

WELL: "COLUMBIA COUNTY" #44-21

RECEIVED - PTLD
MAY 20 1985
DEPT. OF GEOLOGY
[illegible]

FIELD: SOUTH MIST
COUNTY: COLUMBIA
STATE: OREGON
NATION: U.S.A.
LOCATION: 272'N AND 472'W FROM
SE CORNER OF
SEC: 21 **TWP:** 6N **RGE:** 5W

PERMANENT DATUM: GL
ELEV. OF PERM. DATUM: 869.6 '
LOG MEASURED FROM: KB
10.3 ' ABOVE PERM. DATUM
DRLG. MEASURED FROM: KB

ELEVATIONS-
KB: 880.0 '
DF: 879.0 '
GL: 869.6 '

DATE: 6 FEB 85
RUN NO: 1

CONFIDENTIAL

DEPTH-DRILLER: 4500.0 '
DEPTH-LOGGER: 4500.0 '
BTM. LOG INTERVAL: 4500.0 '
TOP LOG INTERVAL: 990.0 '

CASING-DRILLER: 990 '
CASING-LOGGER: 990 '
CASING: 9 5/8"

BIT SIZE: 8 3/4"
DEPTH: 4500 '

OTHER SERVICES-
DIL-BHC
FDC-CNL-GR

WST
CST

API SERIAL NO:
36 009 001

PROGRAM
TAPE NO:
24.2
SERVICE
ORDER NO:
432309

TYPE FLUID IN HOLE: GEL/LIGNO
DENSITY: 11.6 LB/G
VISCOSITY: 51.0 S
PH: 8.0
FLUID LOSS: 6.1 C3
SOURCE OF SAMPLE: MUDPIT
RM: 2.640 OHMM AT 64.0 DEGF
RMF: 2.700 OHMM AT 48.0 DEGF
RMC: 3.590 OHMM AT 48.0 DEGF
SOURCE RMF/RMC: MEASURED/MEASURED
RM AT BHT: 1.629 OHMM AT 108. DEGF
RMF AT BHT: 1.291 OHMM AT 108. DEGF
RMC AT BHT: 1.716 OHMM AT 108. DEGF

TIME CIRC. STOPPED: 03:00 2-6
TIME LOGGER ON BTM.: 09:15 2-7

MAX. REC. TEMP: 108.0 DEGF

LOGGING UNIT NO: 8128
LOGGING UNIT LOC: SACRAMENTO
RECORDED BY: PILCH
WITNESSED BY: ANDERSON

REMARKS:

550 PPM CHLORIDES
36 DEGREE MECHANICAL UNIT

CEMENT VOLUME = 990 Ft^3
HOLE VOLUME = 1577 Ft^3

EQUIPMENT NUMBERS-

HDS-D 1954 HDE-CB 1879 HDM-F 1726 DAM-A 823

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

6

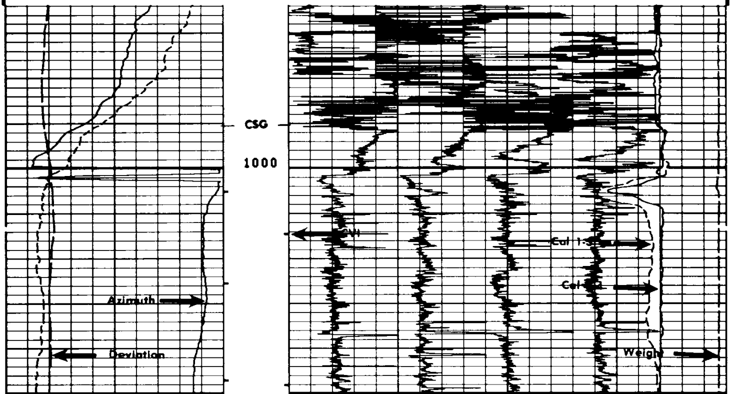
CHANGED PARAMETERS

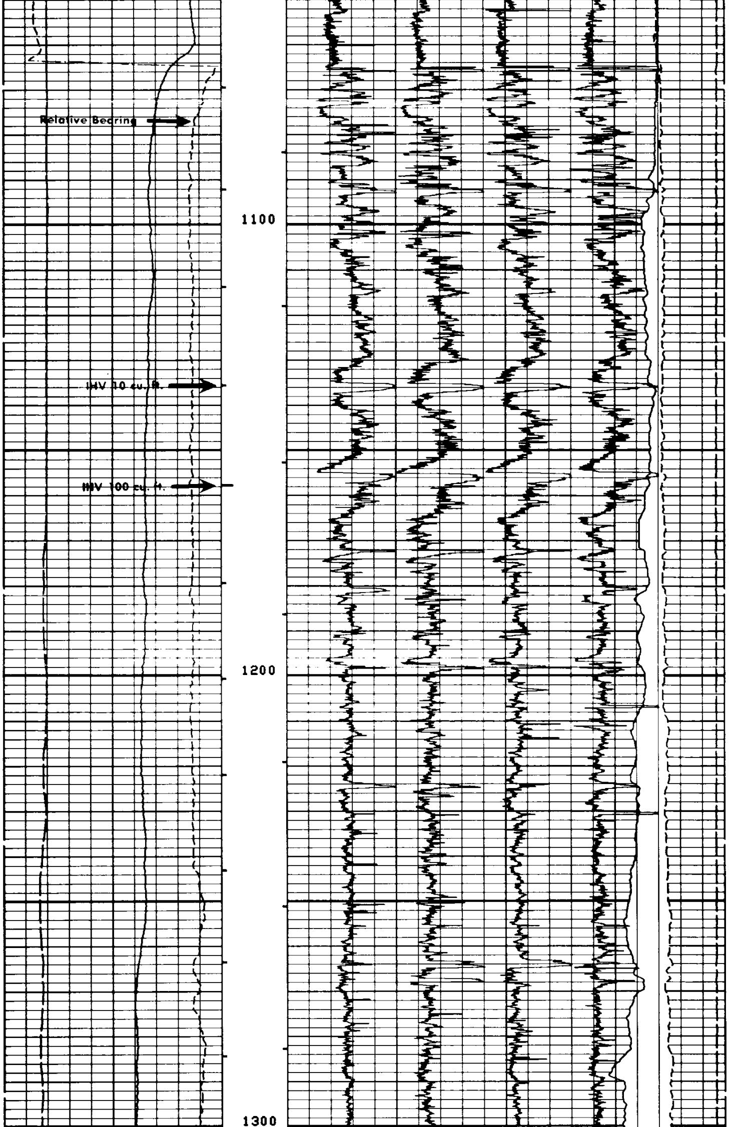
NAME	VALUE	UNIT	DEPTH (F)	NAME	VALUE	UNIT	DEPTH (F)

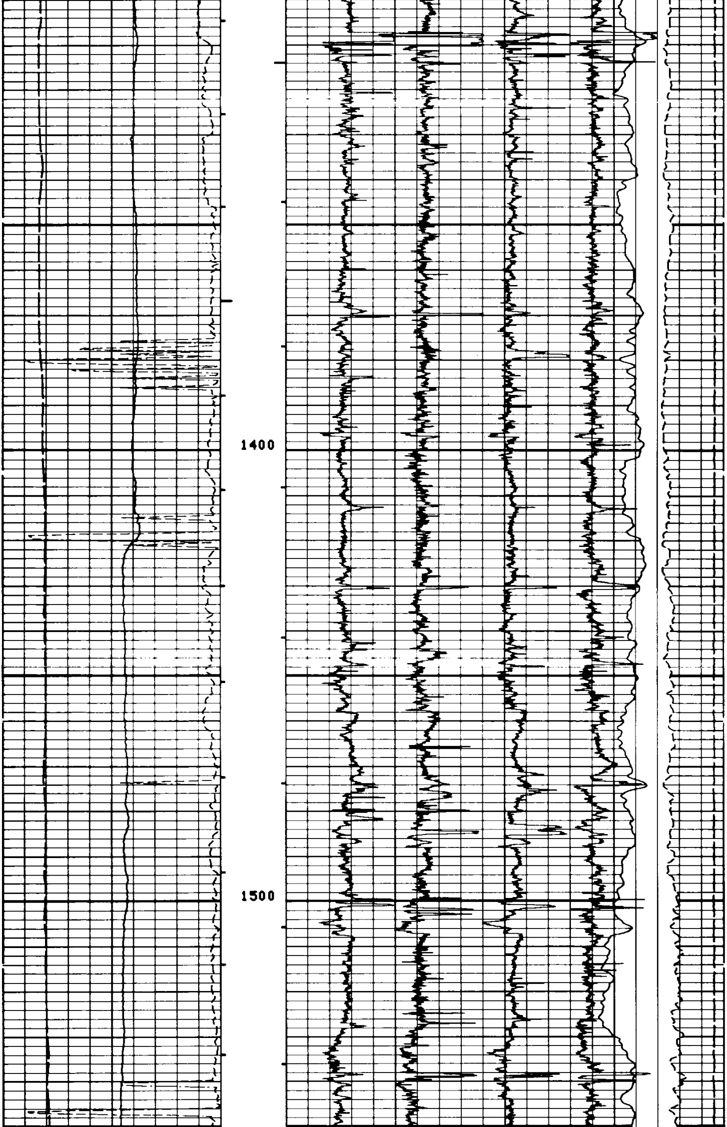
DEVI(DEG)	-1.000	9.0000
RB (DEG)	-40.00	360.00
AZIM(DEG)	-40.00	360.00
TENS(LB)	20000.	0.0
C2 (IN)	26.000	6.0000
C1 (IN)	26.000	6.0000

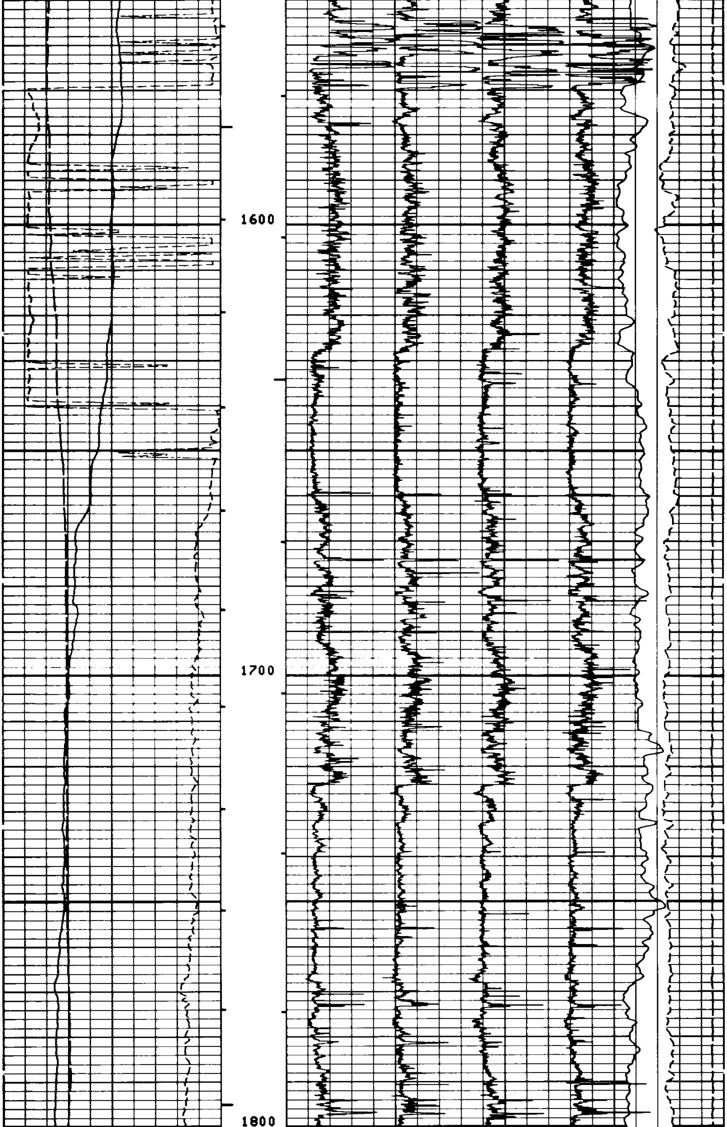
FILE

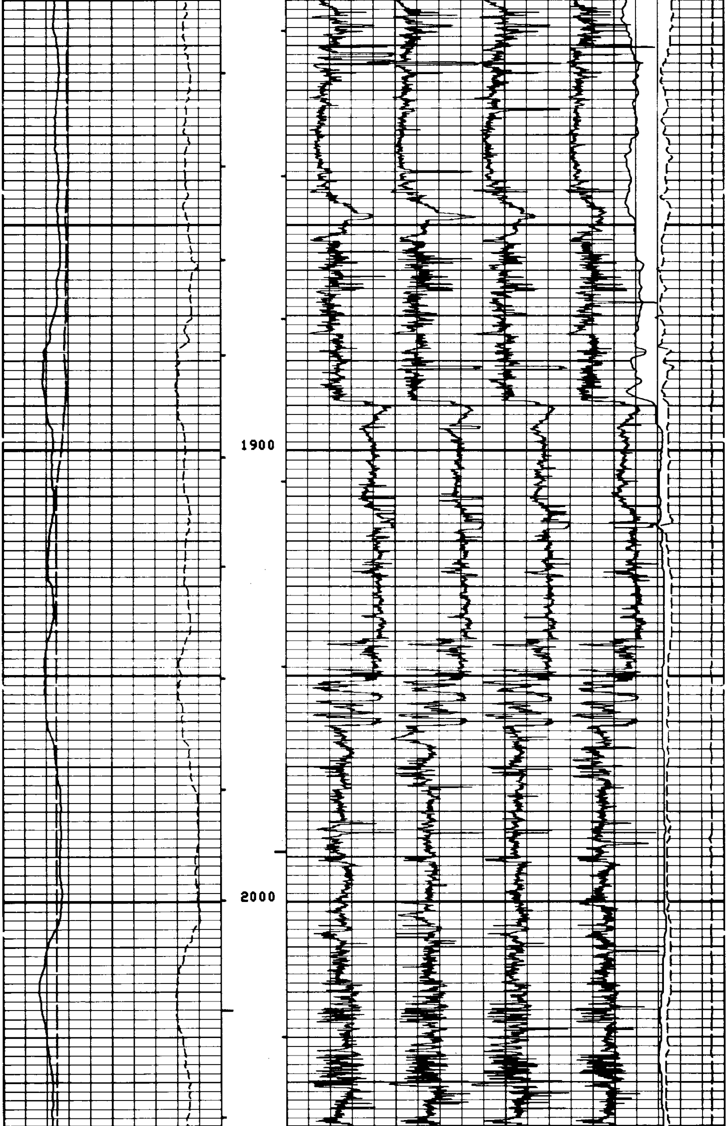
4

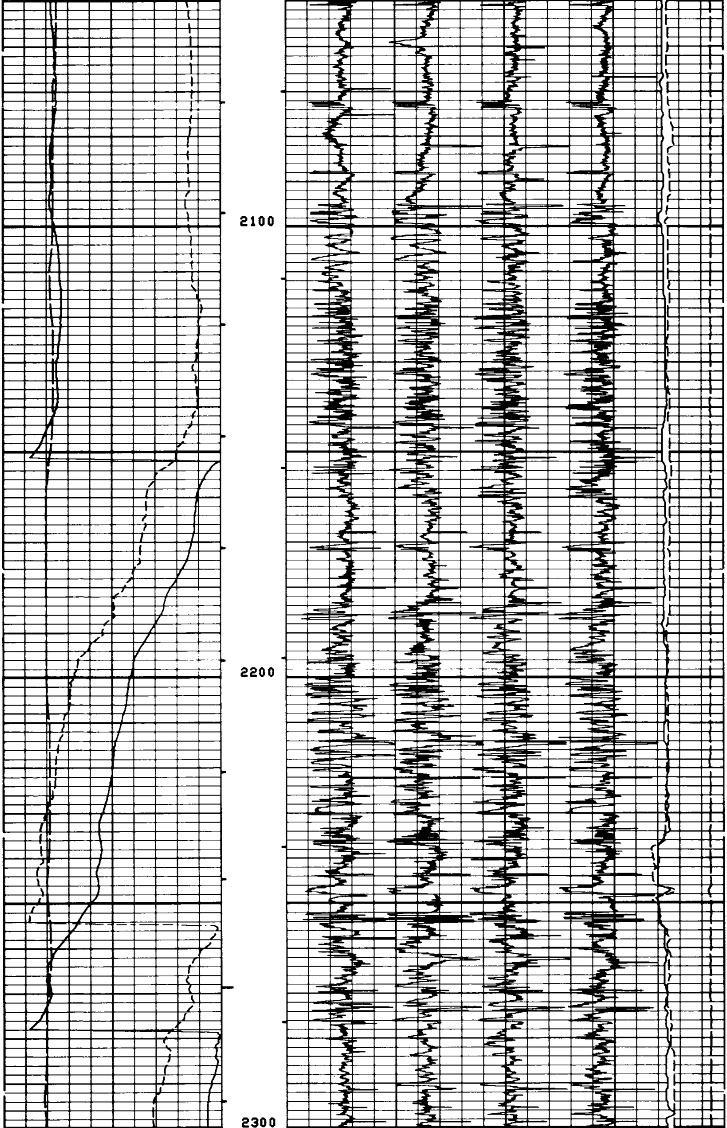


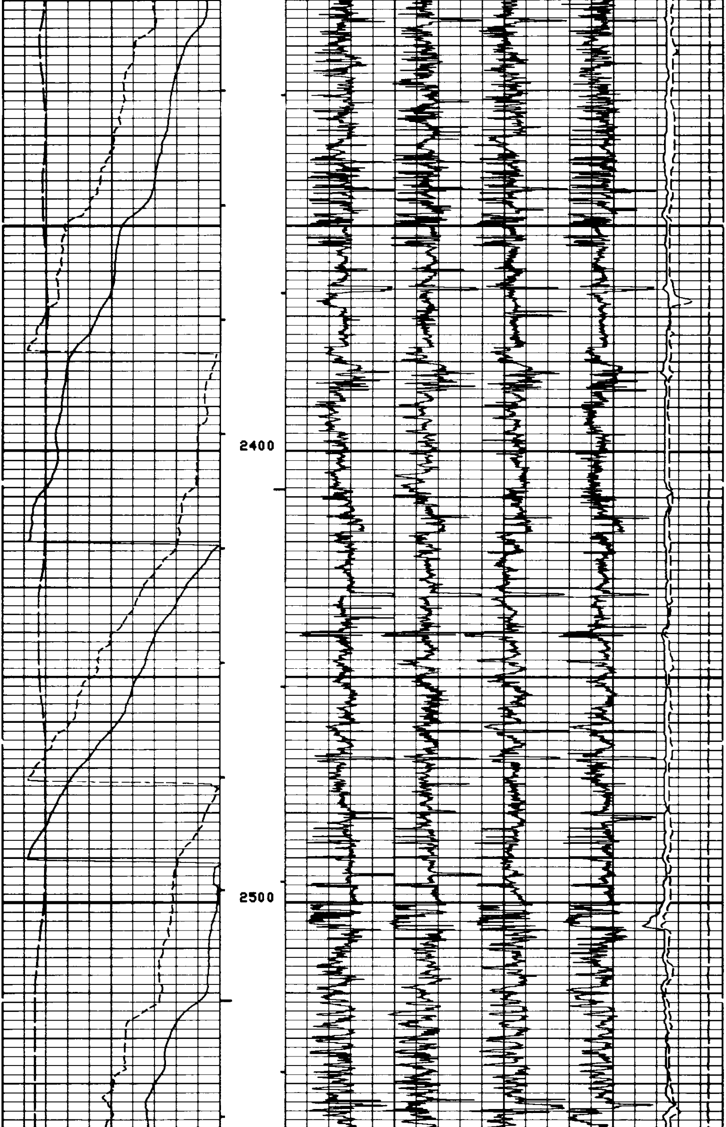


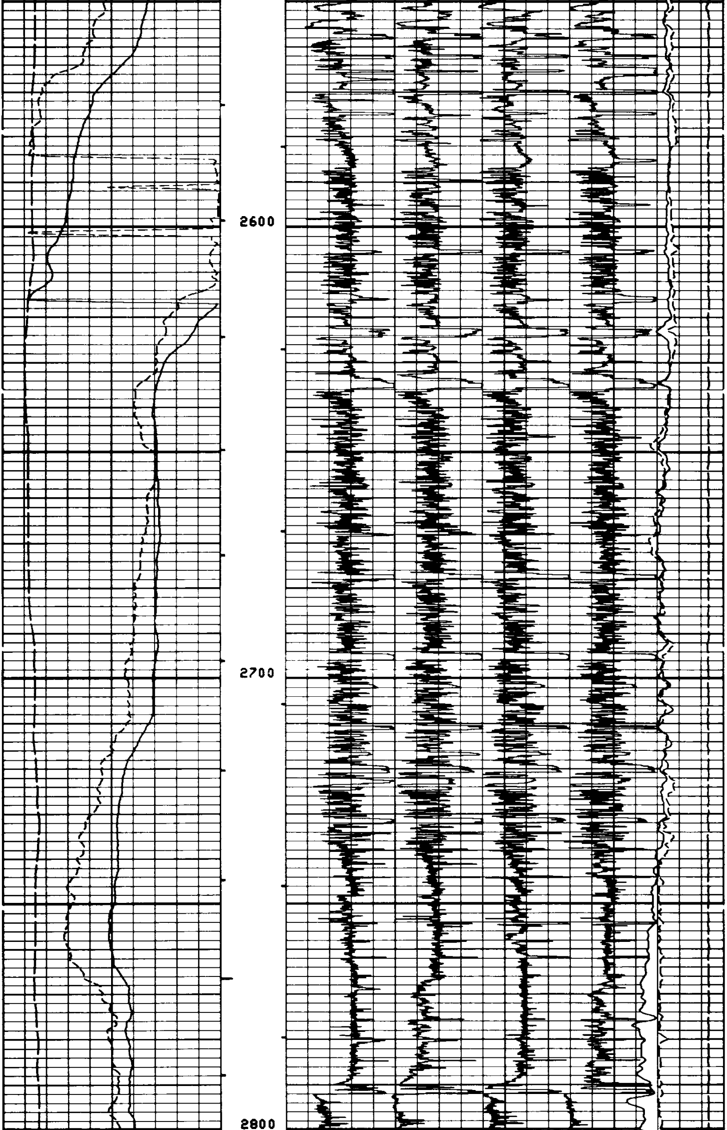


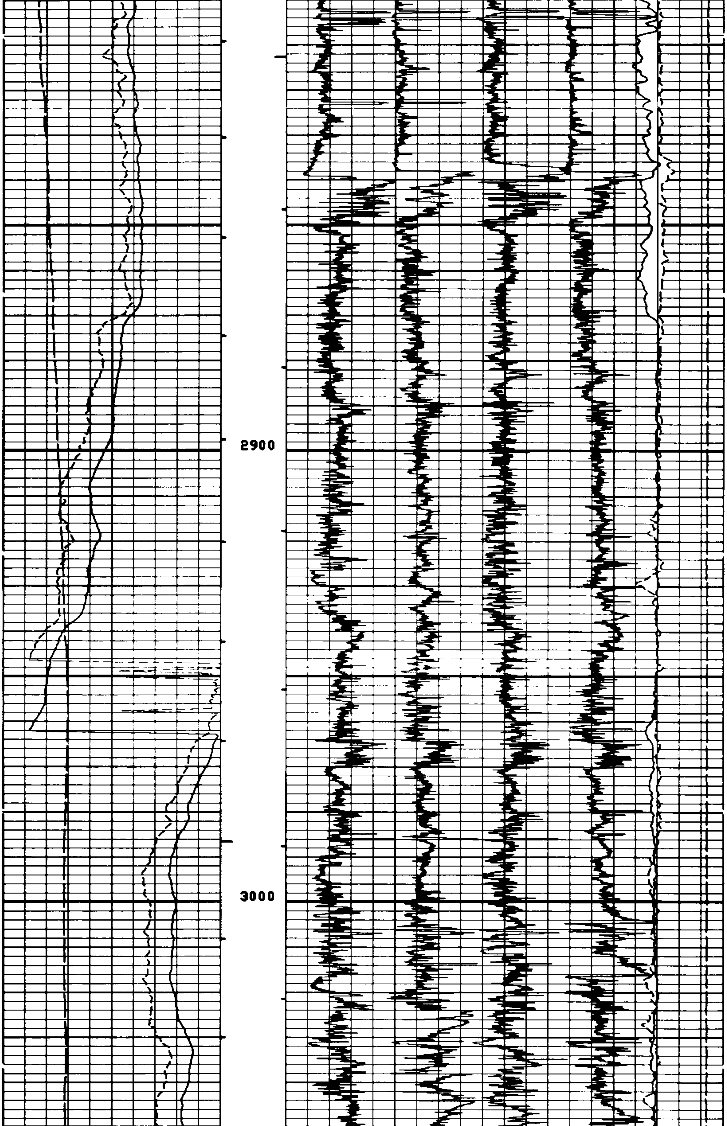


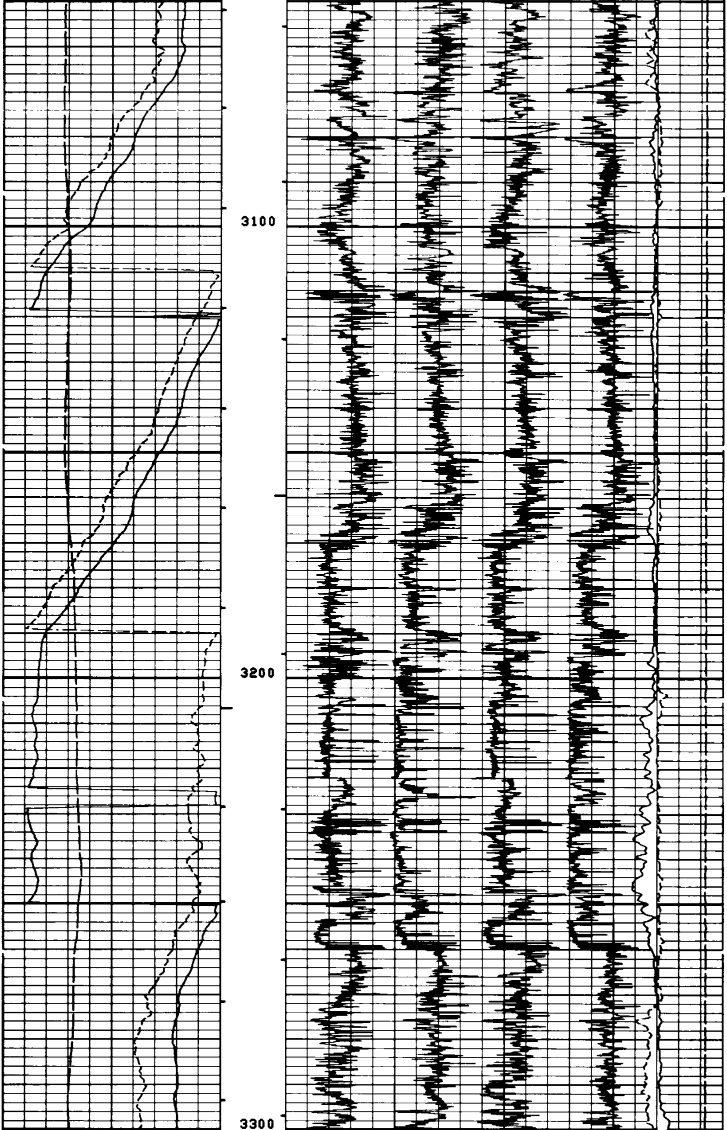


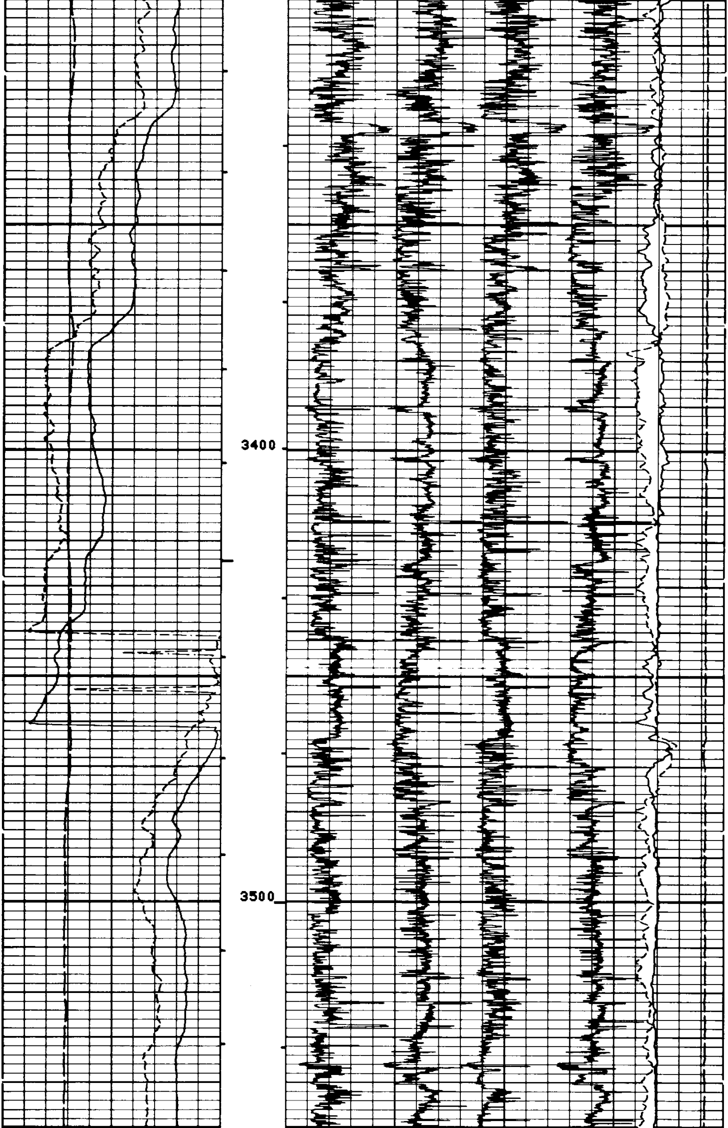


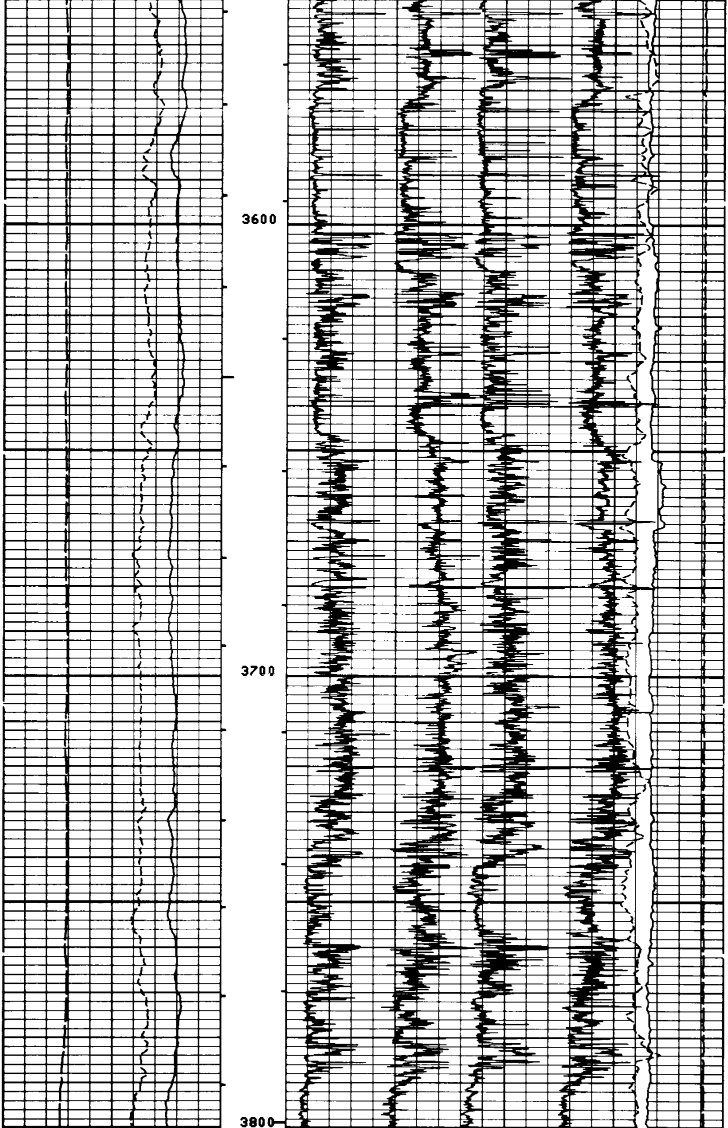


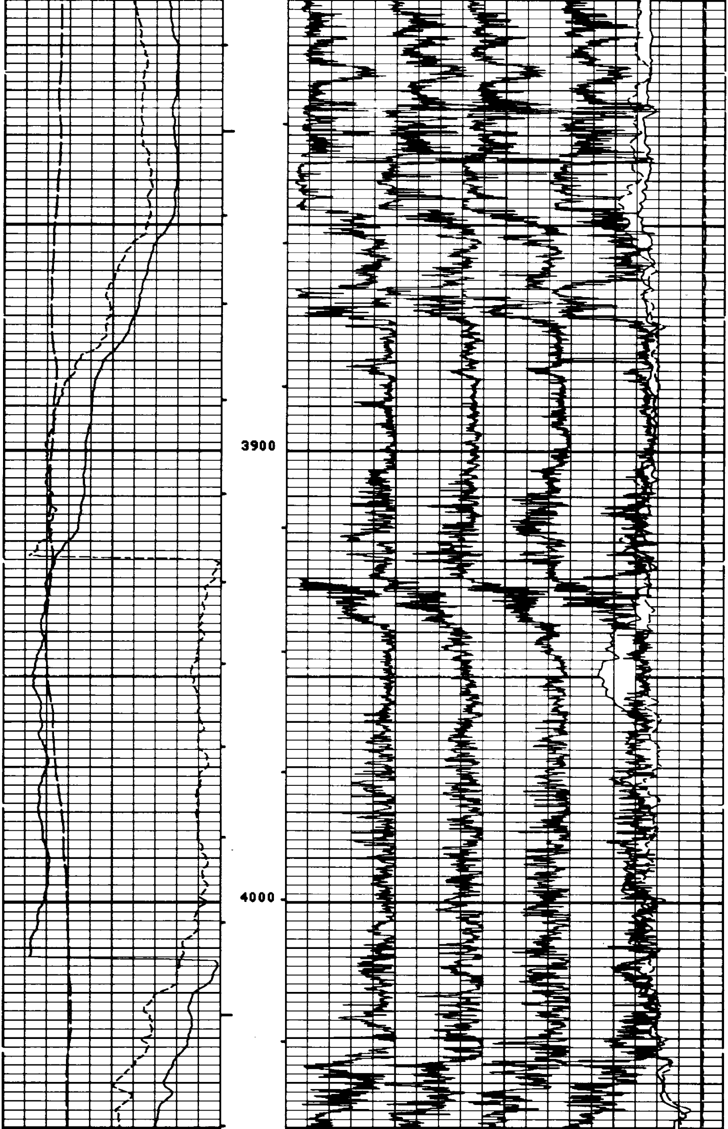


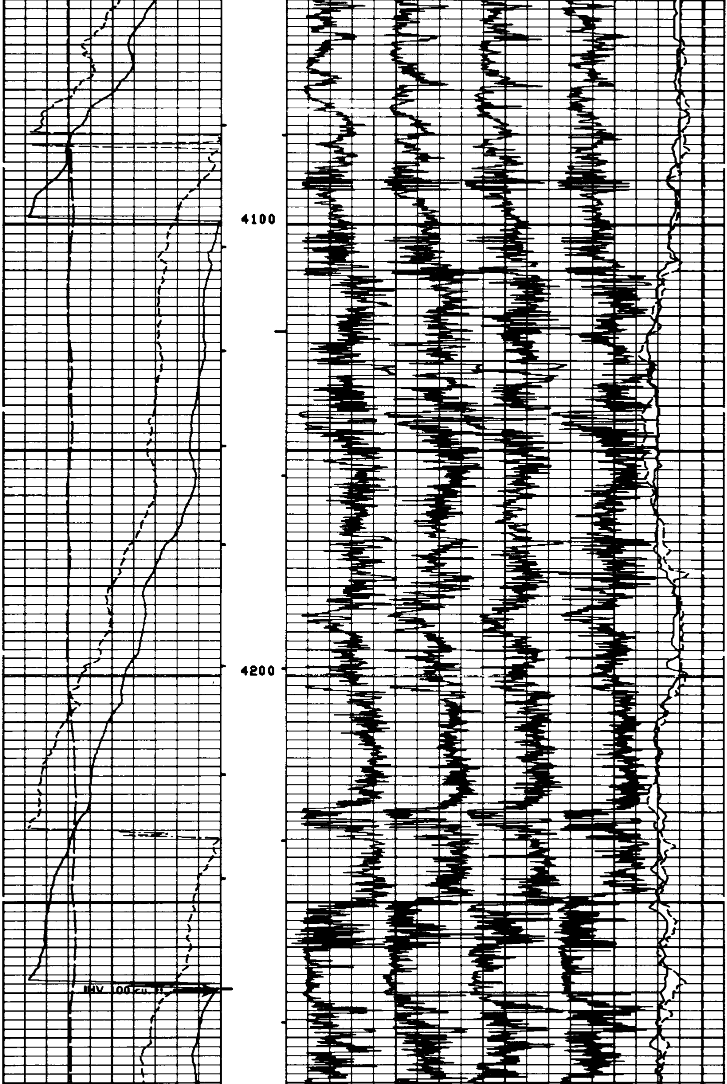


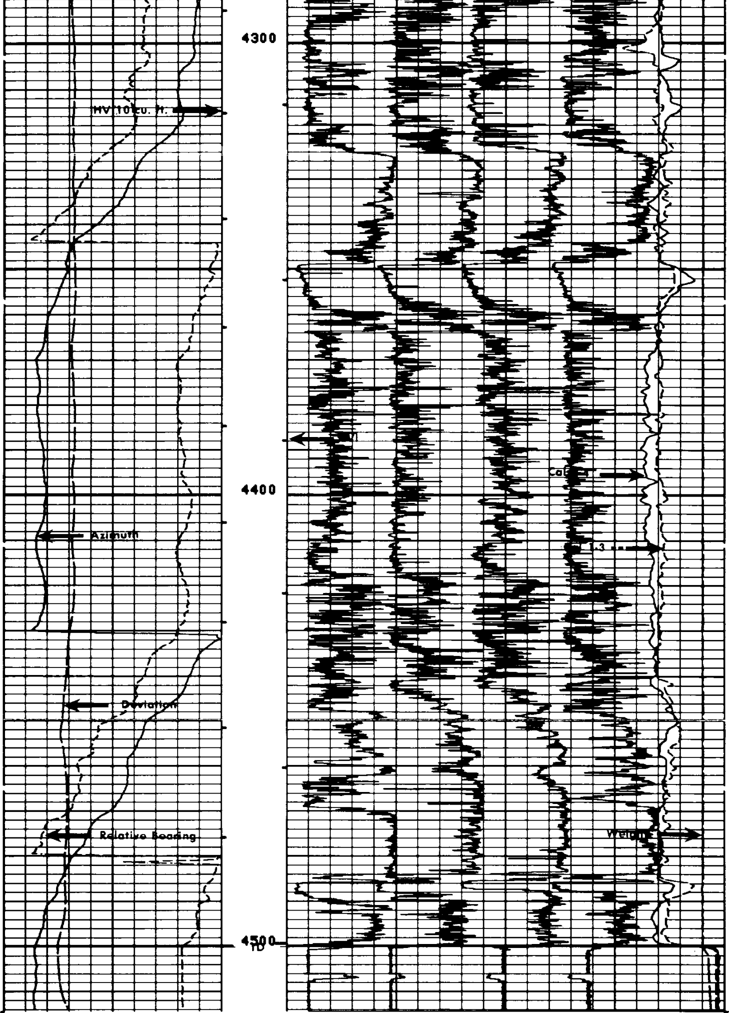












FILE

4

DEVI(DEG)
-1.000 9.0000
RB (DEG)
-40.00 360.00
AZIM(DEG)
-40.00 360.00

TENS(LB)
20000. 0.0
C2 (IN)
26.000 6.0000
C1 (IN)
26.000 6.0000

SENSOR MEASURE POINT TO TENSION REFERENCE POINT

RB	.0	FEET	AZIM	.0	FEET
FEP1	.0	FEET	DEVI	.0	FEET
REFE	.0	FEET	FEP2	.0	FEET
EMEX	.0	FEET	RC	.0	FEET
C2	.0	FEET	C1	.0	FEET
RC2	.0	FEET	RC1	.0	FEET
TEMP	.0	FEET	PP	.0	FEET
FC0	.0	FEET	TENS	.0	FEET
FC2	.0	FEET	FC1	.0	FEET
FC4	.0	FEET	FC3	.0	FEET
SHDT	.0	FEET			

PARAMETERS

NAME	VALUE	UNIT	NAME	VALUE	UNIT
PVUM	1.00000		BS	8.75000	IN
STYP	HDSD		MCT	36	DEG
DO	0.0	F	BHS	OPEN	

CHANGED PARAMETERS

NAME	VALUE	UNIT	DEPTH (F)	NAME	VALUE	UNIT	DEPTH (F)

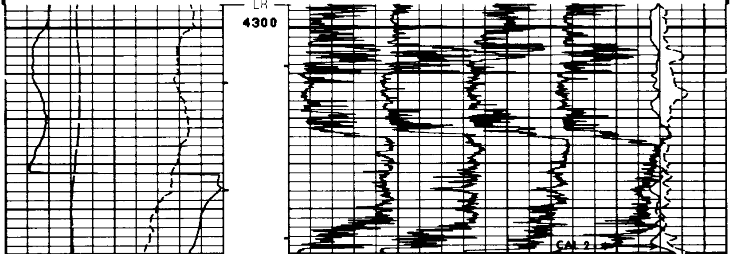
DEVI(DEG)
-1.000 9.0000
RB (DEG)
-40.00 360.00
AZIM(DEG)
-40.00 360.00

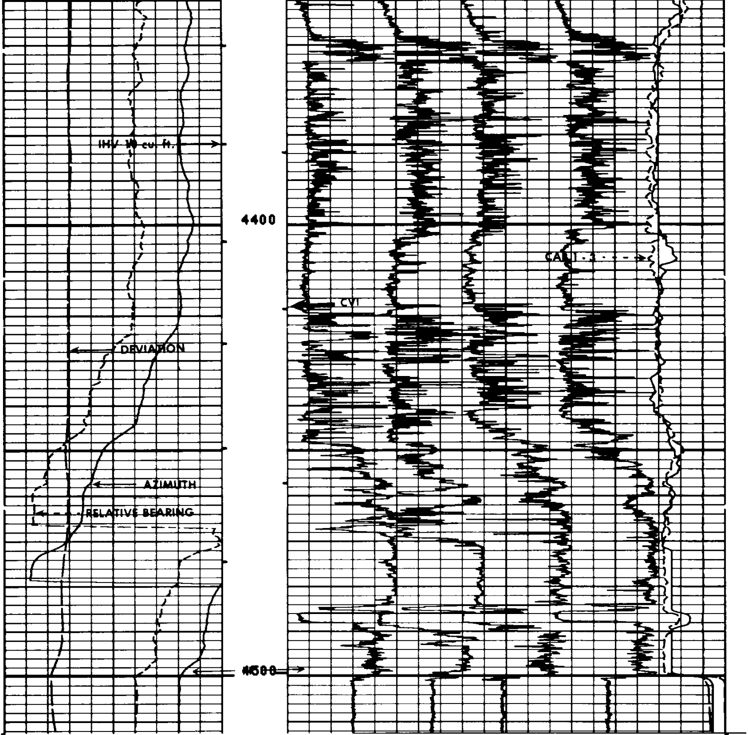
TENS(LB)
20000. 0.0
C2 (IN)
26.000 6.0000
C1 (IN)
26.000 6.0000

FILE

3

REPEAT SECTION





FILE

3

DEVI(DEG)			TENS(LB)
-1.000	9.0000		20000. 0.0
RB (DEG)		C2 (IN)	
-40.00	360.00	26.000	6.0000
AZIM(DEG)		C1 (IN)	
-40.00	360.00	26.000	6.0000

SENSOR MEASURE POINT TO TENSION REFERENCE POINT

RB	.0	FEET	AZIM	.0	FEET
FEP1	.0	FEET	DEVI	.0	FEET
REFE	.0	FEET	FEP2	.0	FEET
EMEX	.0	FEET	RC	.0	FEET
C2	.0	FEET	C1	.0	FEET
RC2	.0	FEET	RC1	.0	FEET
TEMP	.0	FEET	PP	.0	FEET
FC0	.0	FEET	TENS	.0	FEET
FC2	.0	FEET	FC1	.0	FEET
FC4	.0	FEET	FC3	.0	FEET
SHDT	.0	FEET			

PARAMETERS

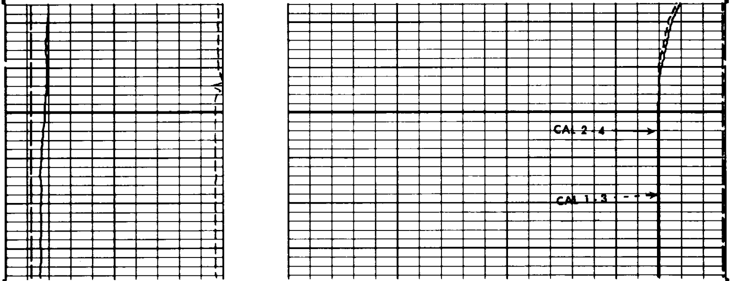
NAME	VALUE	UNIT	NAME	VALUE	UNIT
PVUM	1.00000		BS	8.75000	IN
STYP	HDSD		MCT	36	DEG
DO	0.0	F	BHS	OPEN	

DEVI(DEG)
-1.000 9.0000
RB (DEG)
-40.00 360.00
AZIM(DEG)
-40.00 360.00

TENS(LB)
20000. 0.0
C2 (IN)
26.000 6.0000
C1 (IN)
26.000 6.0000

FILE Check in Casing

2



FILE

2

DEVI(DEG)
-1.000 9.0000
RB (DEG)
-40.00 360.00
AZIM(DEG)
-40.00 360.00

TENS(LB)
20000. 0.0
C2 (IN)
26.000 6.0000
C1 (IN)
26.000 6.0000

SENSOR MEASURE POINT TO TENSION REFERENCE POINT

RB	.0	FEET	AZIM	.0	FEET
FEP1	.0	FEET	DEVI	.0	FEET
REFE	.0	FEET	FEP2	.0	FEET
EMEX	.0	FEET	RC	.0	FEET
C2	.0	FEET	C1	.0	FEET
RC2	.0	FEET	RC1	.0	FEET
TEMP	.0	FEET	PP	.0	FEET
FC0	.0	FEET	TENS	.0	FEET
FC2	.0	FEET	FC1	.0	FEET
FC4	.0	FEET	FC3	.0	FEET
SHDT	.0	FEET			

PARAMETERS

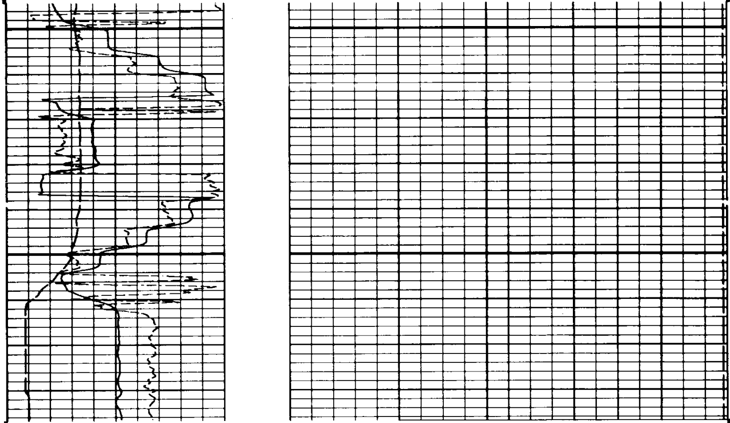
NAME	VALUE	UNIT	NAME	VALUE	UNIT
PVUM	1.00000		BS	8.50000	IN
STYP	HDSD		MCT	36	DEG
DO	0.0	F	BHS	OPEN	

DEVI(DEG)	-1.000	9.0000
RB (DEG)	-40.00	360.00
AZIM(DEG)	-40.00	360.00

TENS(LB)	20000.	0.0
C2 (IN)	26.000	6.0000
C1 (IN)	26.000	6.0000

FILE

1



FILE

1

DEVI(DEG)	-1.000	9.0000
RB (DEG)	-40.00	360.00
AZIM(DEG)	-40.00	360.00

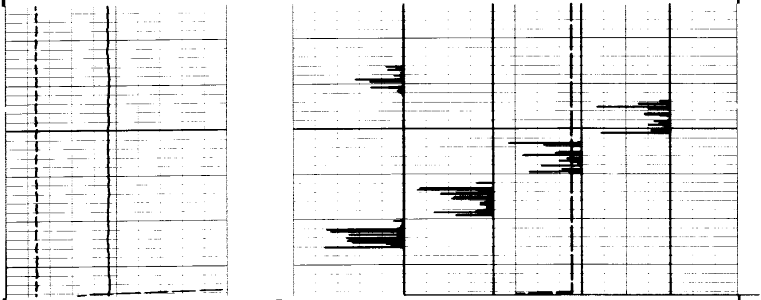
TENS(LB)	20000.	0.0
C2 (IN)	26.000	6.0000
C1 (IN)	26.000	6.0000

DEVI(DEG)	-1.000	9.0000
RB (DEG)	-40.00	360.00
AZIM(DEG)	-40.00	360.00

TENS(LB)	20000.	0.0
C2 (IN)	26.000	6.0000
C1 (IN)	26.000	6.0000

FILE

2



FILE

2

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      DEVI(DEG )                                                               TENS(LB  )
-1.000            9.0000                                              20000.                    0.0
      RB   (DEG )                                            C2   (IN   )
-40.00            360.00                   26.000                                                6.0000
      AZIM(DEG )                                             C1   (IN   )
-40.00            360.00                   26.000                                                6.0000
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                    BEFORE SURVEY CALIBRATION SUMMARY


    PERFORMED:       85/02/06
    PROGRAM FILE: HDT     (VERSION    24.2    83/03/29)


  HDTD                    CALIPER CALIBRATION SUMMARY

                   MEASURED                          CALIBRATED
                 SMALL    LARGE                    SMALL       LARGE         UNITS
      C1          8.2     12.8                      8.0        12.0           IN
      C2          8.3     13.0                      8.0        12.0           IN
                            FILE

                               1
```