Schlumberger

5" DIPMETER

CSU

```
COMPANY:     ARCO EXPLORATION & TECHNOLOGY COMPANY

WELL:        "LONGVIEW FIBRE" 13-6

FIELD:       MIST
COUNTY:      COLUMBIA
STATE:       OREGON
NATION:      U.S.A.
LOCATION:    FROM W 1/4 - N 89 DEG 15' 21" E 591.62'
             PERPEN. TO LINE S 0 DEG 44' 39" E 80.61'
SEC: 6             TWP: 5N           RGE: 4W


PERMANENT DATUM:          GL           ELEVATIONS-
ELEV. OF PERM. DATUM:   782.2 F         KB:  793.2 F
LOG MEASURED FROM:        KB            DF:
     11.0 F     ABOVE PERM. DATUM       GL:  782.2 F
DRLG. MEASURED FROM:      KB


DATE:             10 MAR 86
RUN NO:           1


DEPTH-DRILLER:        1473.0 F
DEPTH-LOGGER:         1436.0 F
BTM. LOG INTERVAL:    1436.0 F
TOP LOG INTERVAL:      459.0 F

CASING-DRILLER:        460.0 F
CASING-LOGGER:         459.0 F
CASING:              9 5/8 IN
   WEIGHT:           36.0000 LB/F
BIT SIZE:            8 3/4 IN
   DEPTH:             1473.0 F
```

RECEIVED - PTLD
APR 21 1986
DEPT. OF GEOLOGY
& MINERAL INDUS

```
OTHER SERVICES-
  DIL
  LSS
  DENSITY
  NEUTRON


PROGRAM
TAPE NO:
  28.4
SERVICE
ORDER NO:
 432083
```

```
TYPE FLUID IN HOLE:    DESCO WELPAC
DENSITY:               10.00 LB/G
VISCOSITY:             50.0 S
PH:                    11.0
FLUID LOSS:             6.2 C3
SOURCE OF SAMPLE:      FLOW LINE
RM:                     2.250 OHMM AT 63.0 DEGF
RMF:                    6.100 OHMM AT 49.0 DEGF
RMC:                     .550 OHMM AT 48.0 DEGF
SOURCE RMF/RMC:        MEASURED/MEASURED
RM AT BHT:              1.624 OHMM AT 90.0 DEGF
RMF AT BHT:             3.522 OHMM AT 90.0 DEGF
RMC AT BHT:              .312 OHMM AT 90.0 DEGF

TIME CIRC. STOPPED:    10:30 10 MAR
TIME LOGGER ON BTM.:   18:52 10 MAR

MAX. REC. TEMP:         90.0 DEGF

LOGGING UNIT NO:       8057
LOGGING UNIT LOC:      SACRAMENTO
```

RECORDED BY: ROTHERS
WITNESSED BY: ANDERSON

REMARKS:

800 PPM CL-

EQUIPMENT NUMBERS-

HDE-F 787 HDM-MB 725 HDS-D 1906 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.

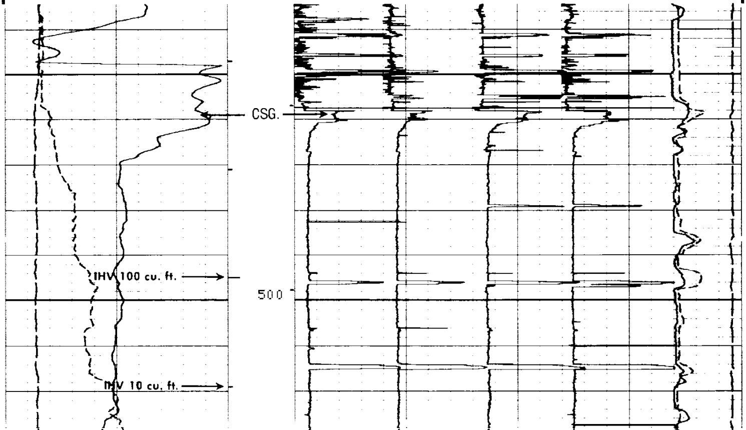
CP 28.4 FILE 7 10-MAR-86 19:18
DATA ACQUIRED NA

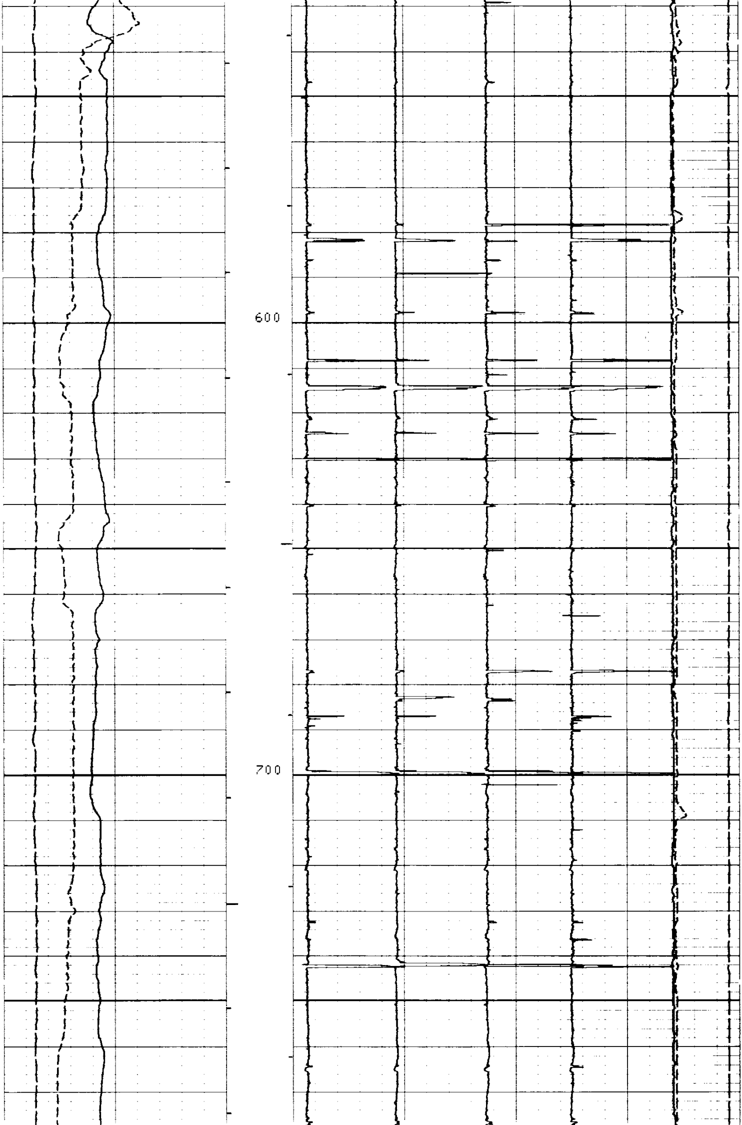
EVENT MARK SUMMARY:

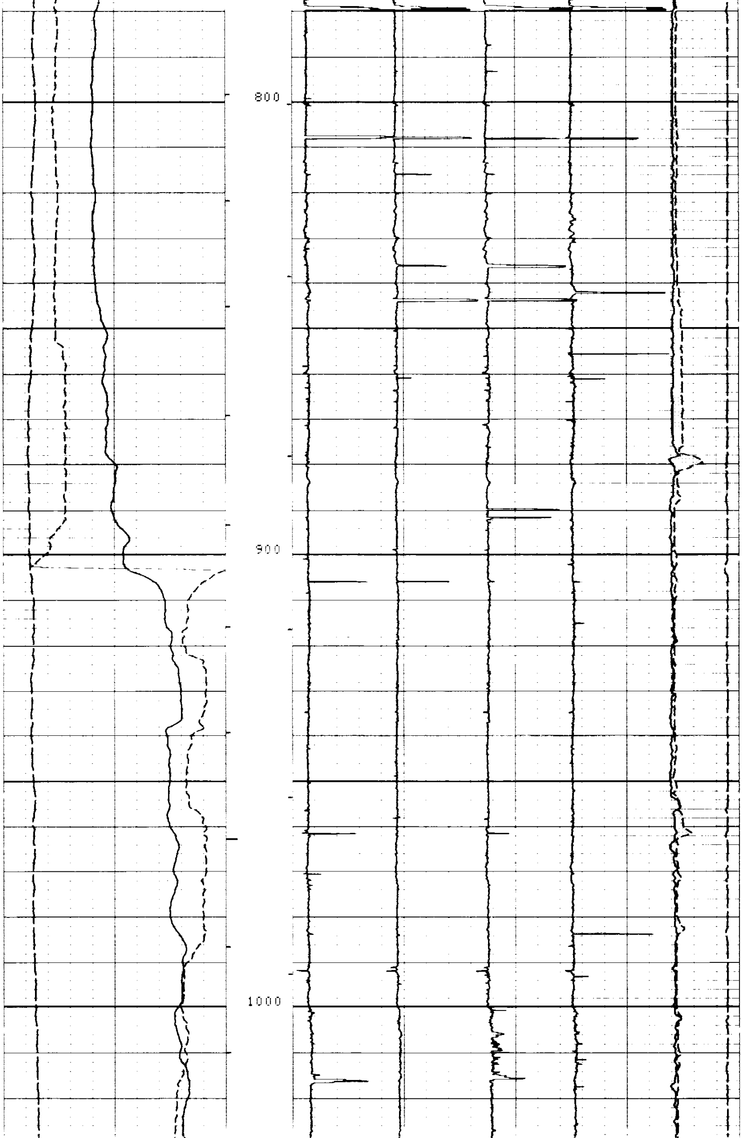
OUTPUT	INTERVAL BETWEEN PIPS	DEPTH TRACK EDGE
IHV	10.0000 F3	LEFT EDGE
ICV	10.0000 F3	RIGHT EDGE

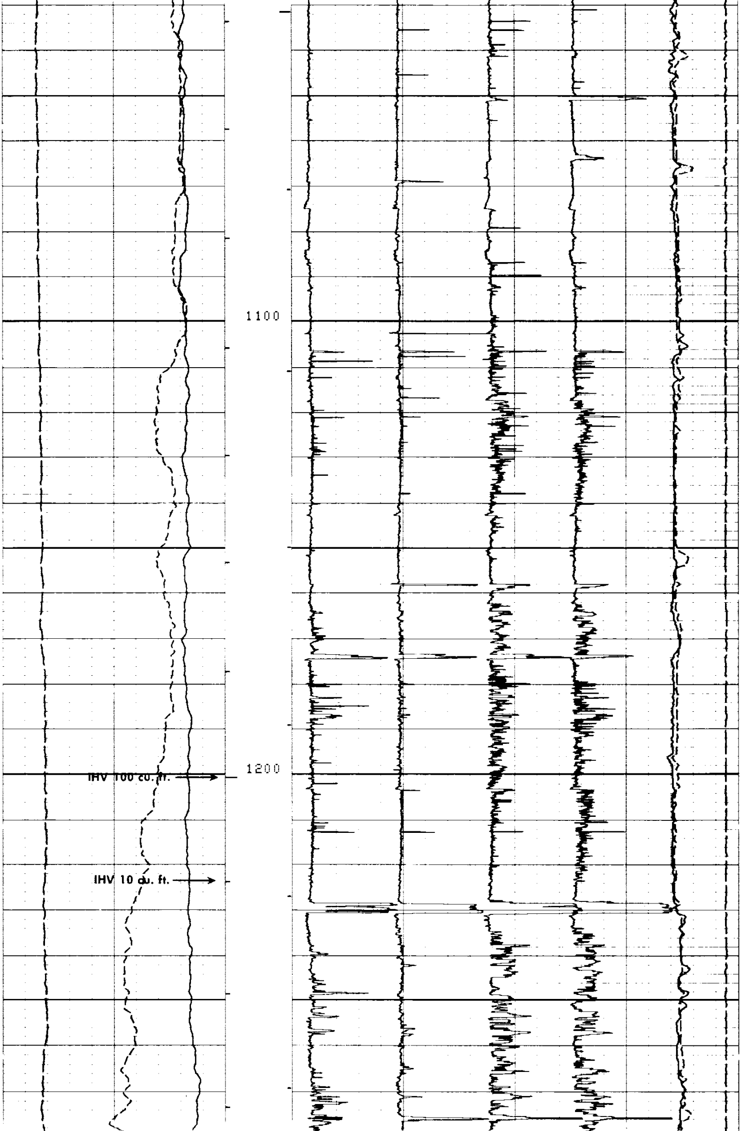
DEVI(DEG)	-1.000	9.0000	TENS(LB)	10000.	0.0
RB (DEG)	-40.00	360.00	C2 (IN)	26.000	6.0000
AZIM(DEG)	-40.00	360.00	C1 (IN)	26.000	6.0000

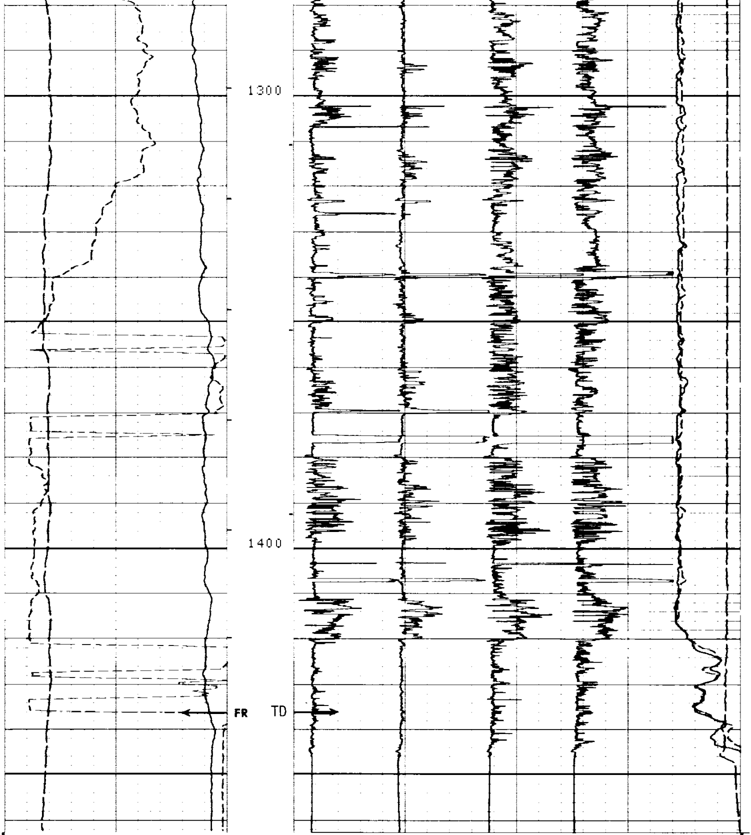
CP 28.4 FILE 5 10-MAR-86 19:12











CP 28.4 FILE 5 10-MAR-86 18:51

DEVI(DEG)		TENS(LB)	
-1.000	9.0000	10000.	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 TOOL ZERO

C1	0.0	FEET	C2	0.0	FEET
PP	0.0	FEET	TEMP	0.0	FEET
RC	0.0	FEET	EMEX	0.0	FEET
FEP2	0.0	FEET	REFE	0.0	FEET
DEVI	0.0	FEET	FEP1	0.0	FEET
AZIM	0.0	FEET	RB	0.0	FEET
RC1	0.0	FEET	RC2	0.0	FEET
SHDT	0.0	FEET	TENS	0.0	FEET
FC3	0.0	FEET	FC4	0.0	FEET

FC1 0.0 FEET
FC0 0.0 FEET

FC2 0.0 FEET

PARAMETERS

NAME	VALUE	UNIT	NAME	VALUE	UNIT
MCT	72		MDEC	20	DEG
BHS	OPEN		STYP	HDSD	
BS	8.75000	IN			

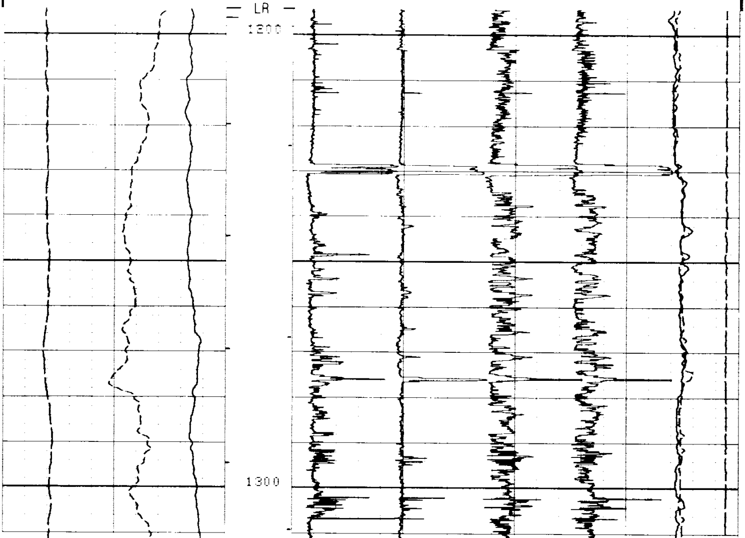
EVENT MARK SUMMARY:

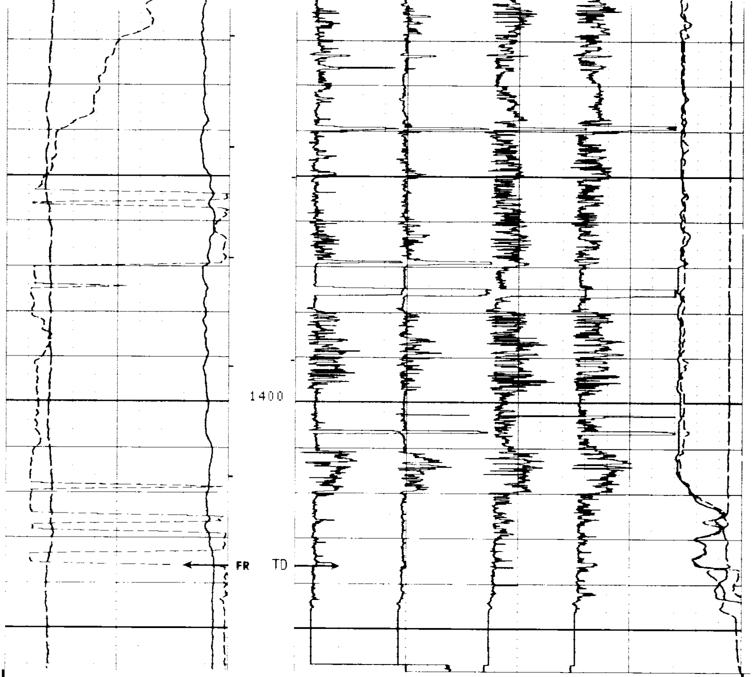
OUTPUT	INTERVAL BETWEEN PIPS	DEPTH TRACK EDGE
IHV	10.0000 F3	LEFT EDGE
ICV	10.0000 F3	RIGHT EDGE

Curve	Left	Right
DEVI(DEG)	-1.000	9.0000
RB (DEG)	-40.00	360.00
AZIM(DEG)	-40.00	360.00
TENS(LB)	10000.	0.0
C2 (IN)	26.000	6.0000
C1 (IN)	26.000	6.0000

REPEAT SECTION

CP 28.4 FILE 4 10-MAR-86 18:39





CP 28.4 FILE 4 10-MAR-86 18:32

DEVI(DEG) -1.000 9.0000			TENS(LB) 10000. 0.0
RB (DEG) -40.00 360.00		C2 (IN) 26.000 6.0000	
AZIM(DEG) -40.00 360.00		C1 (IN) 26.000 6.0000	

SENSOR MEASURE POINT TO TOOL ZERO

C1	0.0	FEET	C2	0.0	FEET
PP	0.0	FEET	TEMP	0.0	FEET
RC	0.0	FEET	EMEX	0.0	FEET
FEP2	0.0	FEET	REFE	0.0	FEET
DEVI	0.0	FEET	FEP1	0.0	FEET
AZIM	0.0	FEET	RB	0.0	FEET
RC1	0.0	FEET	RC2	0.0	FEET
SHDT	0.0	FEET	TENS	0.0	FEET
FC3	0.0	FEET	FC4	0.0	FEET
FC1	0.0	FEET	FC2	0.0	FEET
FC0	0.0	FEET			

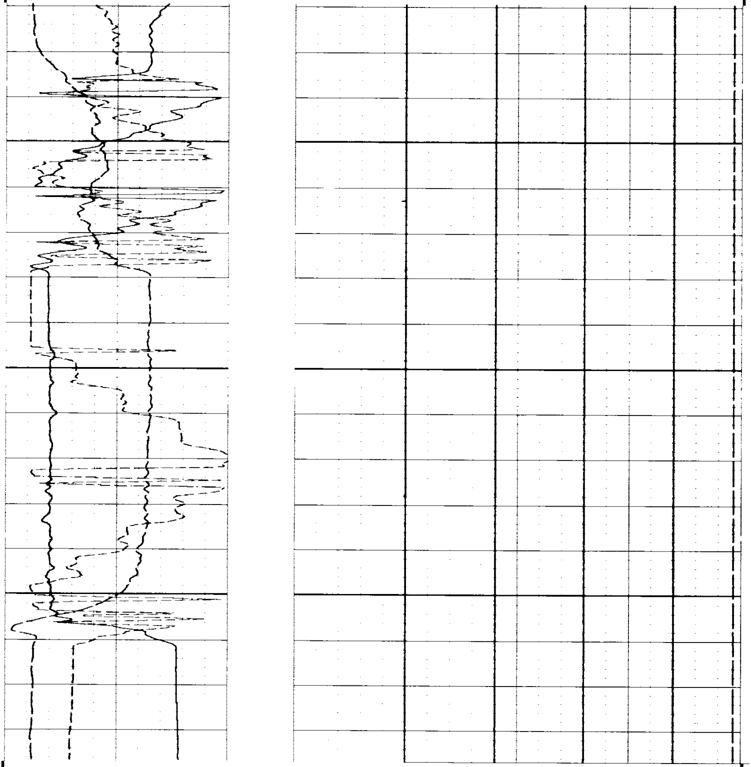
PARAMETERS

NAME	VALUE	UNIT	NAME	VALUE	UNIT
MCT	72		MDEC	20	DEG
BHS	OPEN		STYP	HDSD	
BS	8.75000	IN			

Curve	Left	Right
DEVI(DEG)	-1.000	9.0000
RB (DEG)	-40.00	360.00
AZIM(DEG)	-40.00	360.00
TENS(LB)	10000.	0.0
C2 (IN)	26.000	6.0000
C1 (IN)	26.000	6.0000

Check

CP 28.4 FILE 2 10-MAR-86 17:54



CP 28.4 FILE 2 10-MAR-86 17:51

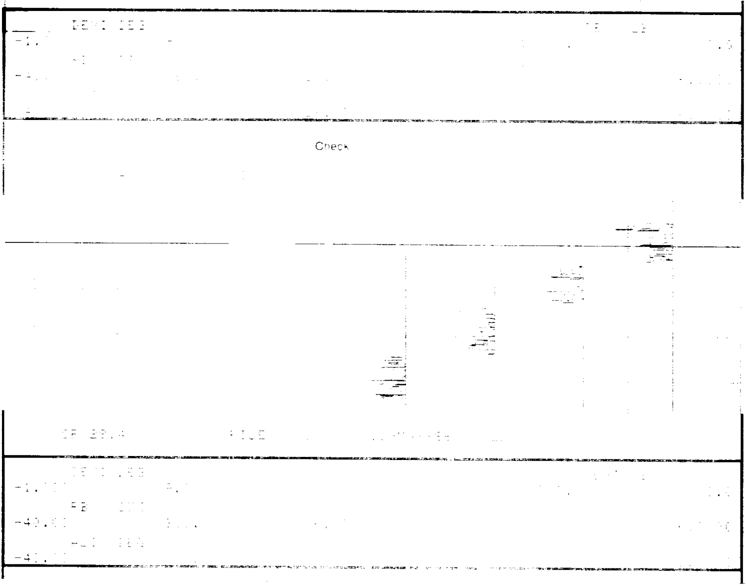
Curve	Left	Right
DEVI(DEG)	-1.000	9.0000
RB (DEG)	-40.00	360.00
AZIM(DEG)	-40.00	360.00
TENS(LB)	10000.	0.0
C2 (IN)	26.000	6.0000
C1 (IN)	26.000	6.0000

SENSOR MEASURE POINT TO TOOL ZERO

C1	0.0	FEET	C2	0.0	FEET
PP	0.0	FEET	TEMP	0.0	FEET
RC	0.0	FEET	EMEX	0.0	FEET
FEP2	0.0	FEET	REFE	0.0	FEET
DEVI	0.0	FEET	FEP1	0.0	FEET
AZIM	0.0	FEET	RB	0.0	FEET
RC1	0.0	FEET	RC2	0.0	FEET
SHDT	0.0	FEET	TENS	0.0	FEET
FC3	0.0	FEET	FC4	0.0	FEET
FC1	0.0	FEET	FC2	0.0	FEET
FC0	0.0	FEET			

PARAMETERS

NAME	VALUE	UNIT	NAME	VALUE	UNIT
MCT	72		MDEC	0	DEG
BHS	OPEN		STYP	HDSD	
BS	8.75000	IN			



BEFORE SURVEY CALIBRATION SUMMARY

PERFORMED: 10-MAR-86 17:46
PROGRAM FILE: HDT   (VERSION   28.4   85/11/11)

HDTD   CALIPER CALIBRATION SUMMARY

```
              MEASURED                        CALIBRATED
            SMALL    LARGE                  SMALL      LARGE         UNITS
     C1     9.64     14.0                   8.00       12.0           IN
     C2     9.50     14.1                   8.00       12.0           IN

   CP 28.4              FILE      2       10-MAR-86 17:46
```