Schlumberger

BOREHOLE COMPENSATED SONIC 5"

CSU

COMPANY:	OREGON NATURAL GAS DEVELOPMENT CORP.
WELL:	"DESHAZER" 13-22
FIELD:	ST. LOUIS
COUNTY:	MARION
STATE:	OREGON
NATION:	USA
LOCATION:	1860'N & 560'E FR SW COR

SEC: 22 TWP: 5S RGE: 2W

PERMANENT DATUM:	GL
ELEV. OF PERM. DATUM:	182.1 F
LOG MEASURED FROM:	KB
11.1 F ABOVE PERM. DATUM	
DRLG. MEASURED FROM:	KB

ELEVATIONS-
KB: 193.2 F
DF:
GL: 182.1 F

DATE:	17 FEB 85
RUN NO:	1

DEPTH-DRILLER:	2511.0 F
DEPTH-LOGGER:	2511.0 F
BTM. LOG INTERVAL:	2471.0 F
TOP LOG INTERVAL:	507.0 F
CASING-DRILLER:	506 F
CASING-LOGGER:	507 F
CASING:	8 5/8"
WEIGHT:	24.00 LB/F
BIT SIZE:	7 7/8"
DEPTH:	2511 F

OTHER SERVICES-
DIL
HDT

PROGRAM
TAPE NO:
26.2
SERVICE
ORDER NO:
432406

TYPE FLUID IN HOLE:	GEL/LIGNO
DENSITY:	8.9 LB/G
VISCOSITY:	59.0 S
PH:	8.5
FLUID LOSS:	7.8 C3
SOURCE OF SAMPLE:	FLOWLINE
RM:	2.530 OHMM AT 60.0 DEGF
RMF:	3.520 OHMM AT 49.0 DEGF
RMC:	2.690 OHMM AT 55.0 DEGF
SOURCE RMF/RMC:	MEASURED/MEASURED
RM AT BHT:	1.926 OHMM AT 81.0 DEGF
RMF AT BHT:	2.240 OHMM AT 81.0 DEGF
RMC AT BHT:	1.895 OHMM AT 81.0 DEGF
TIME CIRC. STOPPED:	11:00 2/17
TIME LOGGER ON BTM.:	13:45 2/17
MAX. REC. TEMP:	81.0 DEGF

LOGGING UNIT NO: 8126
LOGGING UNIT LOC: SACRAMENTO
RECORDED BY: MAYER
WITNESSED BY: MEYER/BRUER

REMARKS:

CHLORIDES: 850PPM
DIL AND SONIC WERE RUN IN COMBINATION.
CMEZ'S AND FINS USED FOR CENTRALIZATION.

EQUIPMENT NUMBERS-

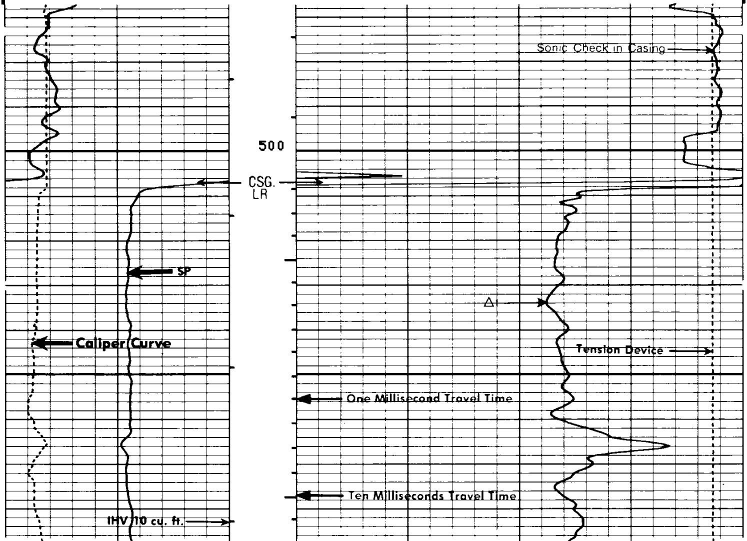
DIS 1342	DIC 1386	SLS 375	SLC 1259
MCD 1186	IEM 162	SLM 443	

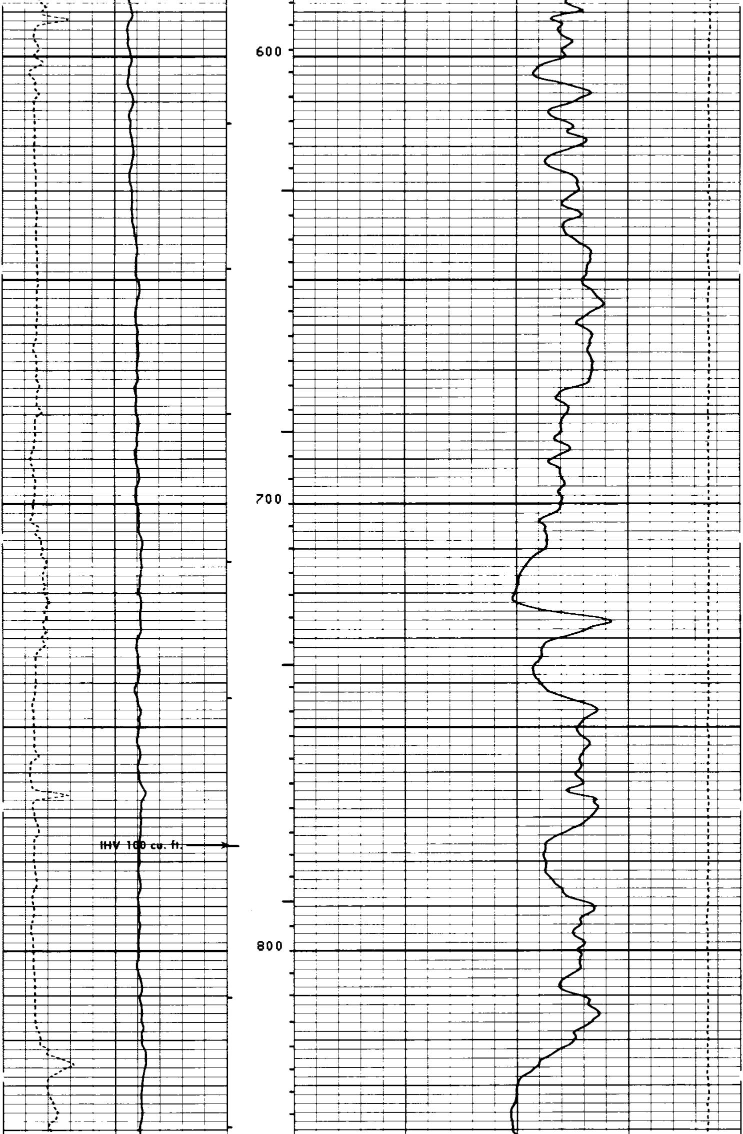
ALL INTERPRETATIONS ARE OPINIONS BASED ON INFERENCES FROM ELECTRICAL OR OTHER MEASUREMENTS AND WE CANNOT, AND DO NOT GUARANTEE THE ACCURACY OR CORRECTNESS OF ANY INTERPRETATIONS, AND WE SHALL NOT, EXCEPT IN THE CASE OF GROSS OR WILLFUL NEGLIGENCE ON OUR PART, BE LIABLE OR RESPONSIBLE FOR ANY LOSS, COSTS, 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.

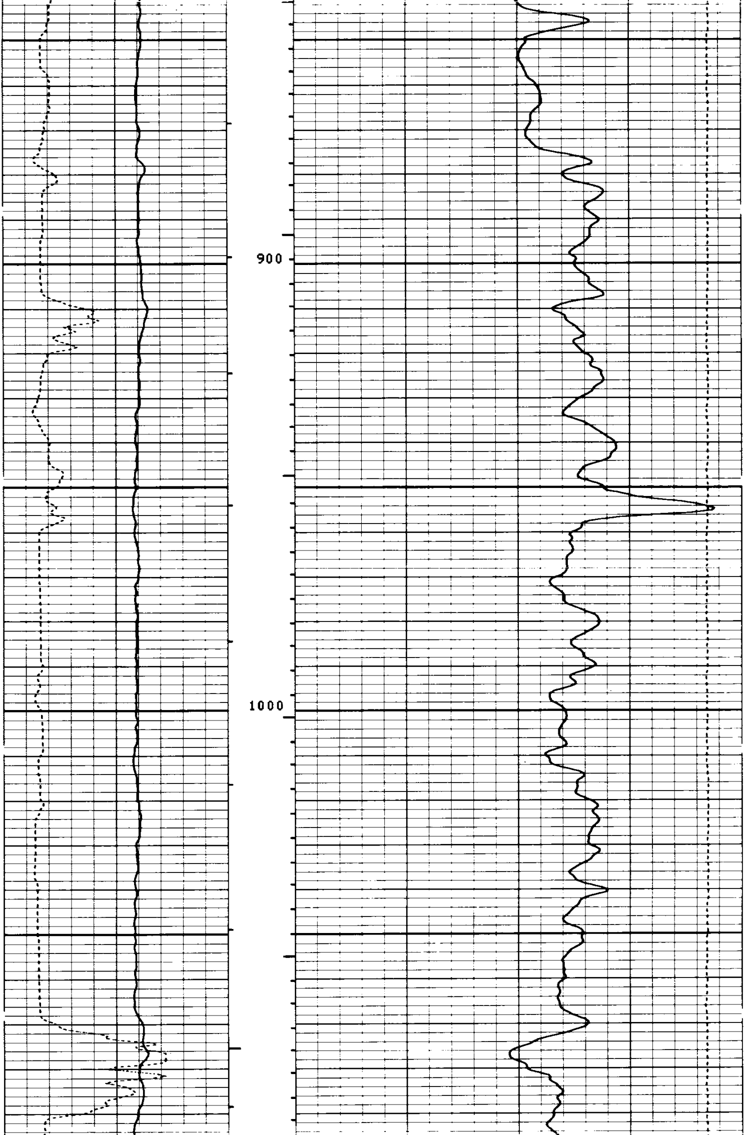
FILE   9   17-FEB-85 15:05
DATA ACQUIRED   17-FEB-85 14:30

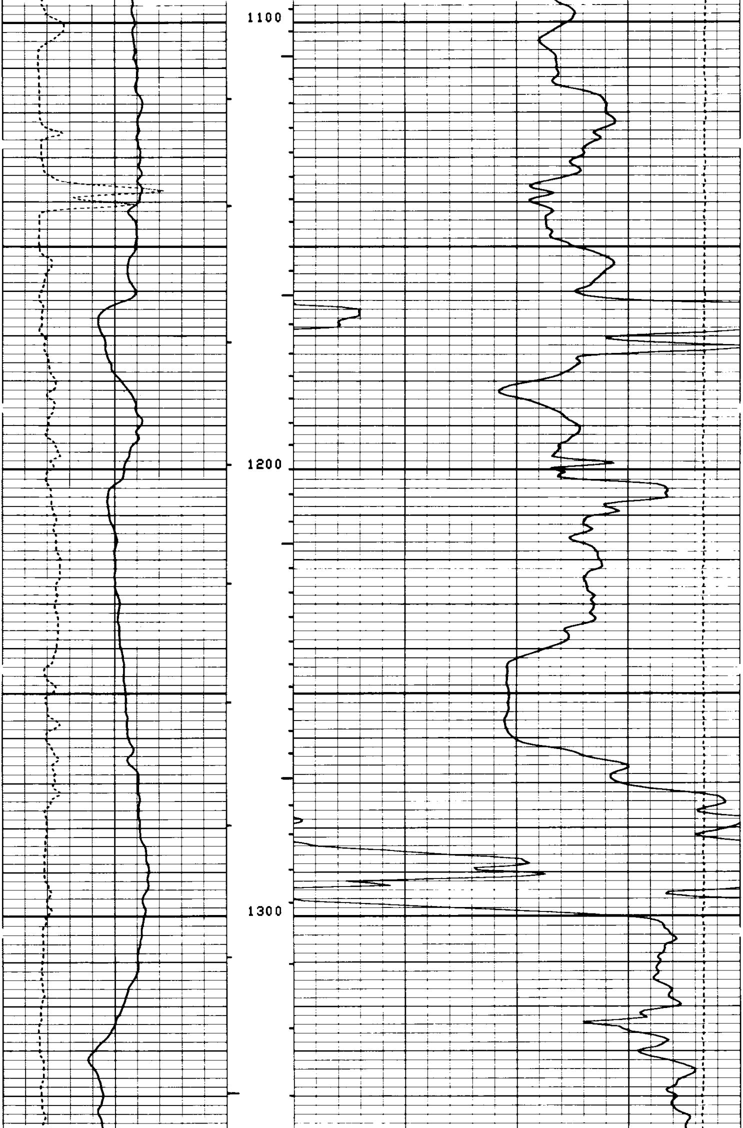
CALI(IN)			TENS(LB)
6.0000	16.000	10000.	0.0
SP (MV)		DT (US/F)	
-100.0	0.0	150.00	50.000

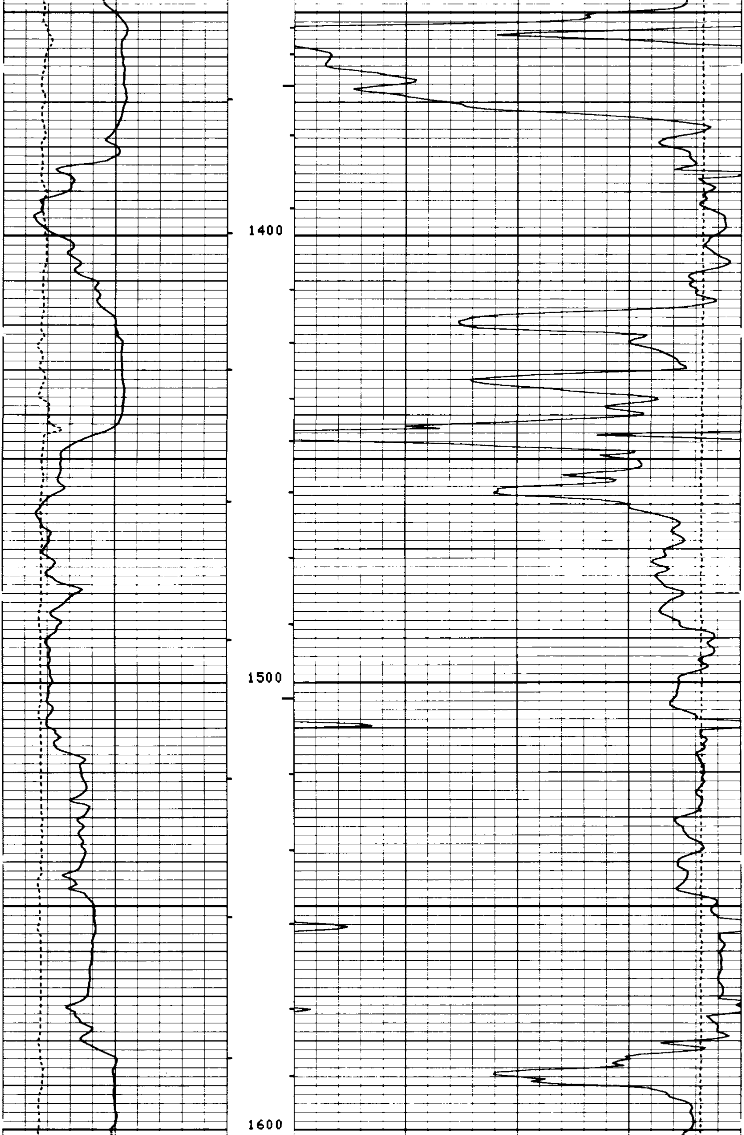
FILE   9   17-FEB-85 14:53
DATA ACQUIRED   17-FEB-85 14:30

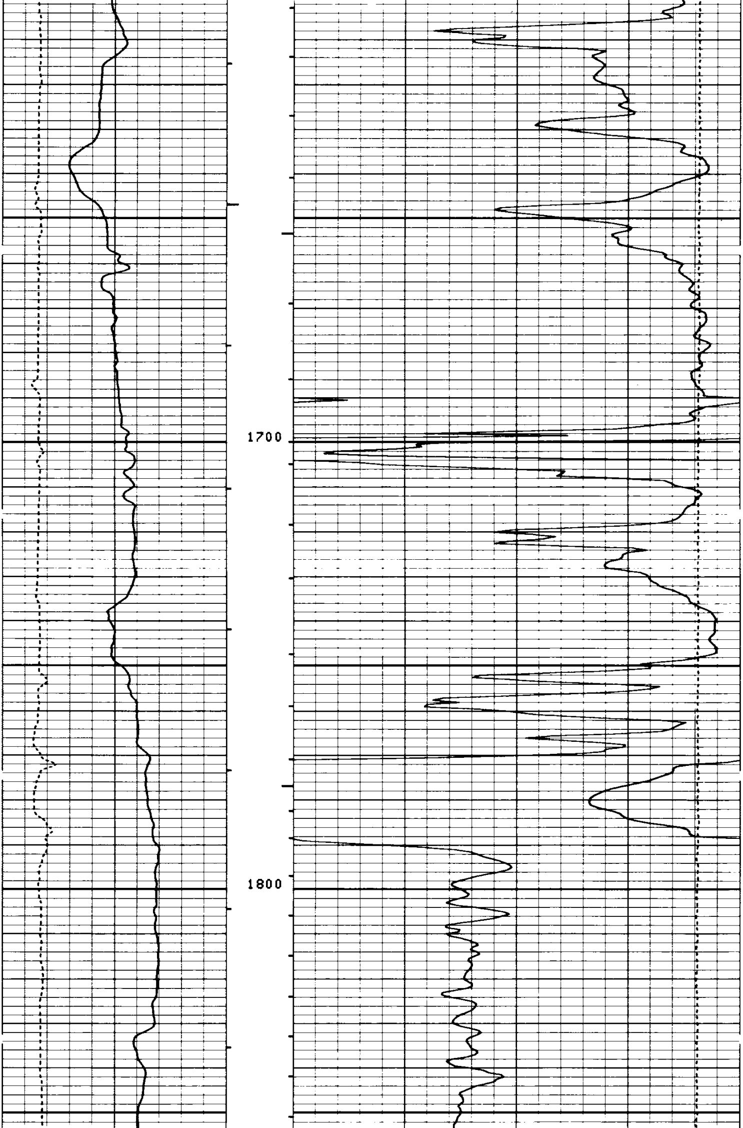


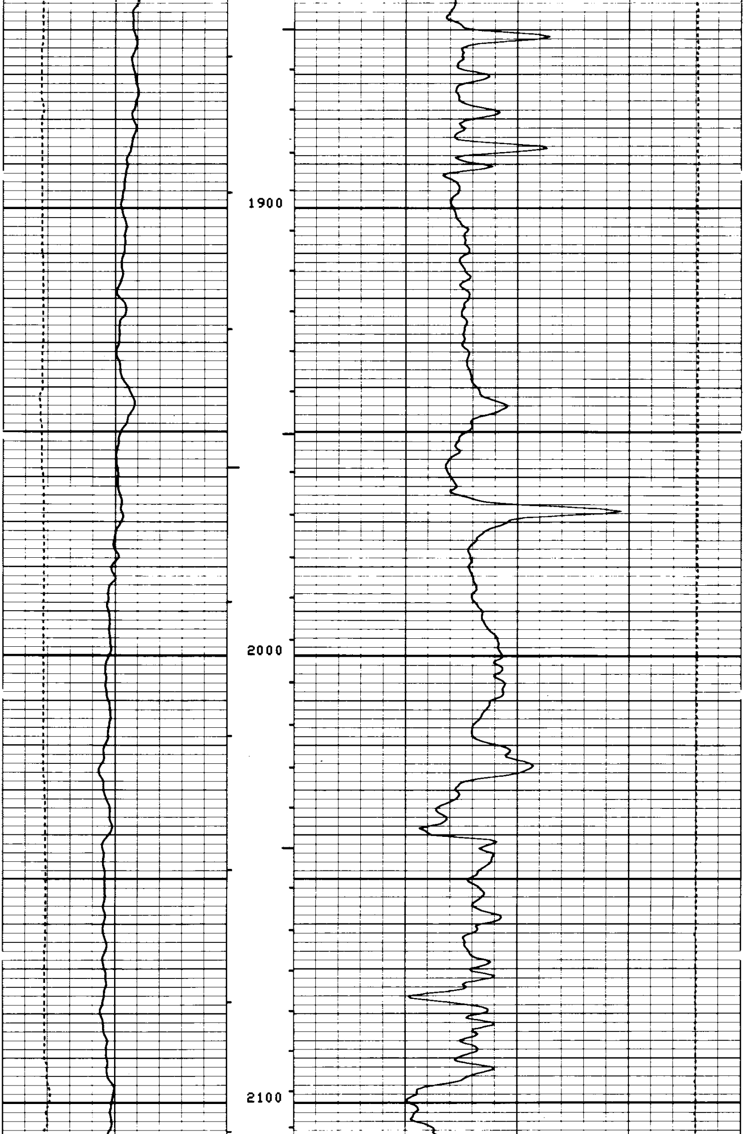


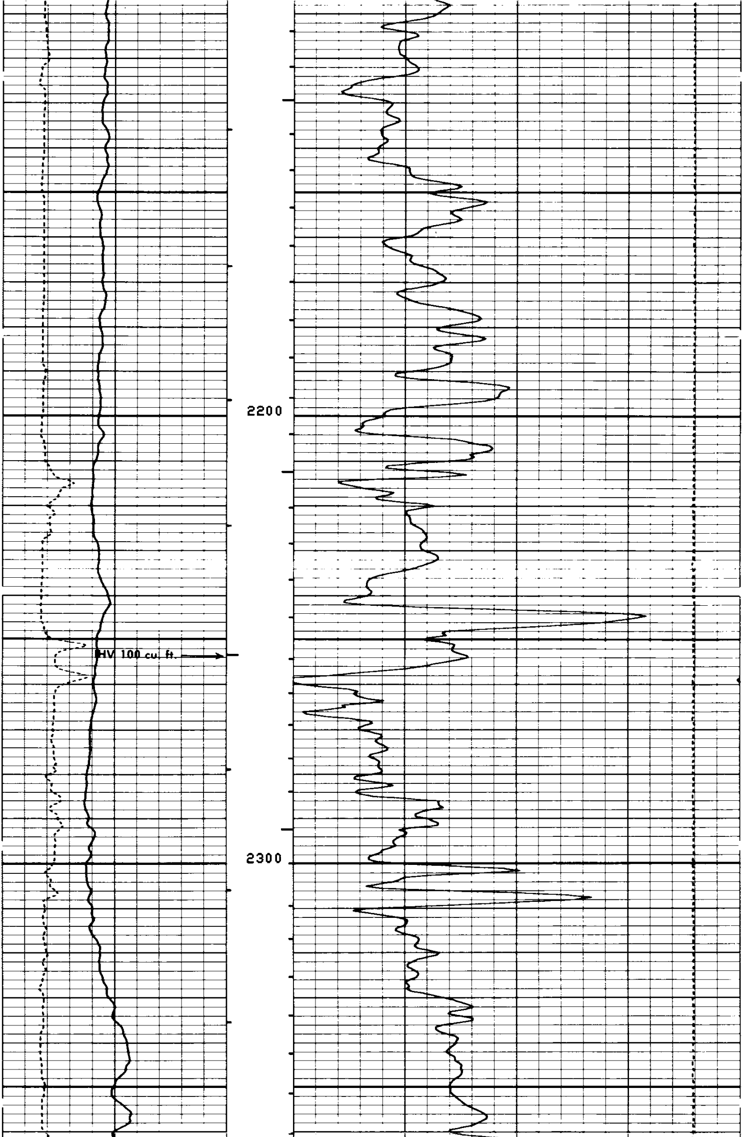


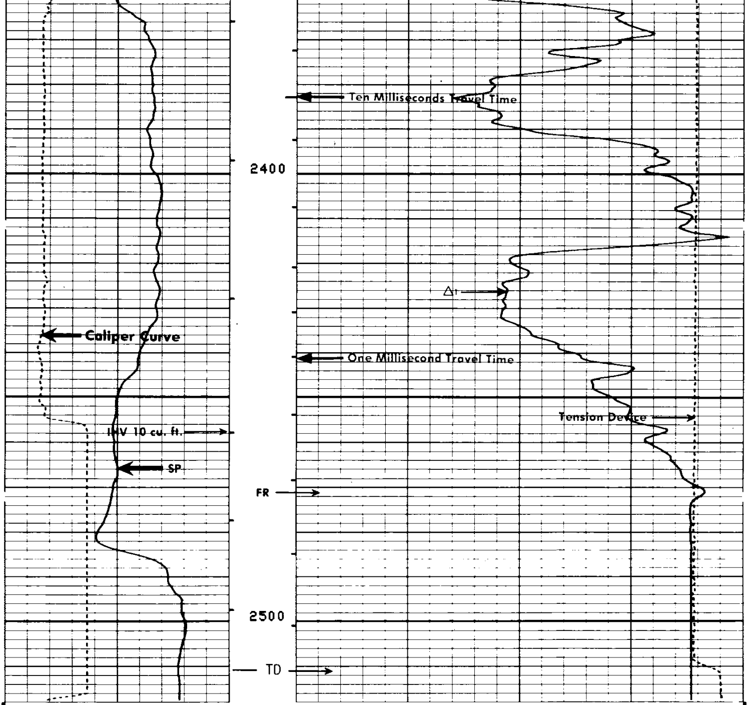












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                  FILE     9       17-FEB-85 14:48
                  DATA ACQUIRED    17-FEB-85 13:55
```

CALI(IN)	TENS(LB)
6.0000 16.000	10000. 0.0
SP (MV)	DT (US/F)
-100.0 0.0	150.00 50.000

```
              SENSOR MEASURE POINT TO TOOL ZERO

        CBL   37.0  FEET                AMPL  37.0  FEET
        TT3   33.3  FEET                TT4   32.3  FEET
        TT1   36.0  FEET                TT2   37.0  FEET
        CALI  56.1  FEET                SRAT  34.5  FEET
        SFL    6.4  FEET                ILD    9.4  FEET
        SP     2.5  FEET                ILM    5.7  FEET
        TENS   2.5  FEET                SPAR   2.5  FEET
        NOIS  28.8  FEET
```

PARAMETERS

```
NAME  VALUE     UNIT                           NAME  VALUE     UNIT

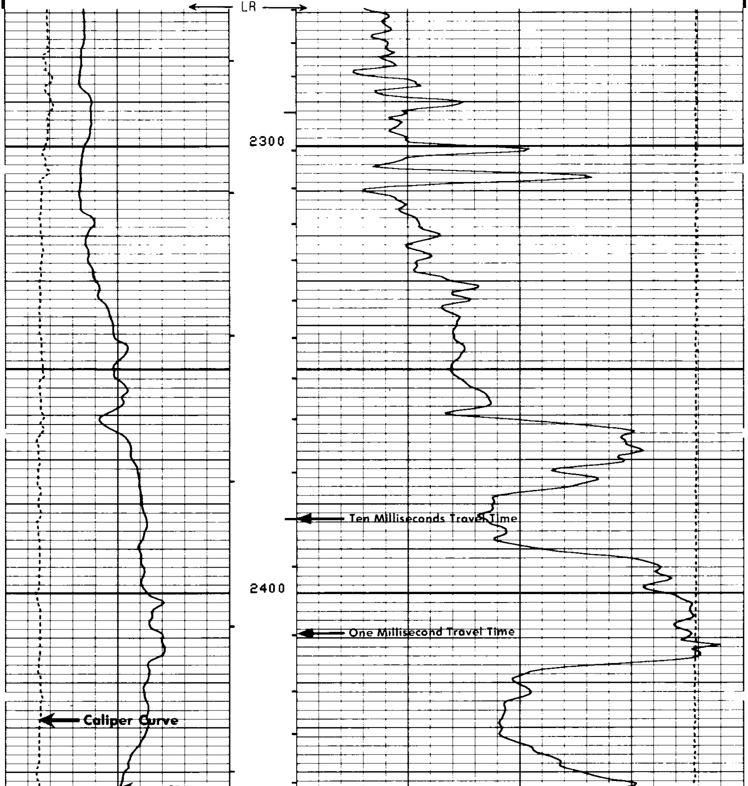
WSV1  WF1                                      DWS   16
DSIN  5         US                             DDEL  200       US
CDTS  140.000                                  DWCO  512
DTF   189.000   US/F                           DTM   56.0000   US/F
SBR   1.00000   OHMM                           DSEC  6.20000   MMHO
FPHI  SPHI                                     MSEC  7.30000   MMHO
BS    7.87500   IN                             BHS   OPEN
SPDR  0.0                                      DO    0.0       F
PP    NORM

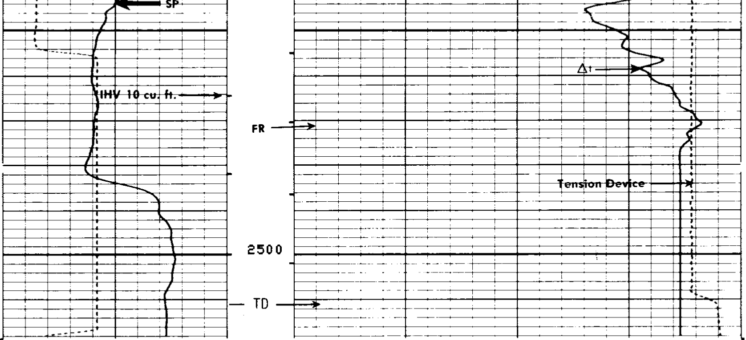
                    TAPE NOT MADE
```

```
      CALI(IN  )                                                   TENS(LB  )
6.0000         16.000                                    10000.              0.0
      SP   (MV  )                          DT   (US/F)
-100.0            0.0       150.00                                        50.000
```

REPEAT SECTION

FILE   8   17-FEB-85 14:47
DATA ACQUIRED   17-FEB-85 13:51





```
FILE     8        17-FEB-85 14:47
DATA ACQUIRED     17-FEB-85 13:47
```

```
      CALI(IN  )                                                       TENS(LB  )
6.0000             16.000                                  10000.                        0.0
      SP   (MV  )                                     DT   (US/F)
-100.0                0.0      150.00                                                 50.000
```

```
                        SENSOR MEASURE POINT TO TOOL ZERO

        CBL   37.0   FEET                        AMPL  37.0   FEET
        TT3   33.3   FEET                        TT4   32.3   FEET
        TT1   36.0   FEET                        TT2   37.0   FEET
        CALI  56.1   FEET                        SRAT  34.5   FEET
        SFL    6.4   FEET                        ILD    9.4   FEET
        SP     2.5   FEET                        ILM    5.7   FEET
        TENS   2.5   FEET                        SPAR   2.5   FEET
        NOIS  28.8   FEET
```

```
                                  PARAMETERS

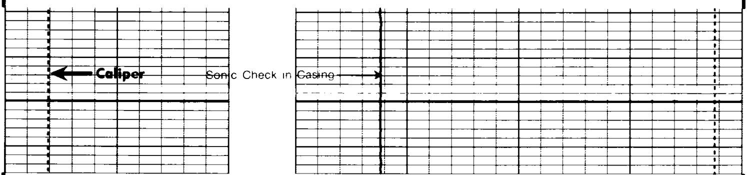
        NAME  VALUE     UNIT                      NAME  VALUE     UNIT

        WSV1  WF1                                 DWS   16
        DSIN  5         US                        DDEL  200       US
        CDTS  140.000                             DWCO  512
        DTF   189.000   US/F                      DTM   56.0000   US/F
        SBR   1.00000   OHMM                      DSEC  6.20000   MMHO
        FPHI  SPHI                                MSEC  7.30000   MMHO
        BS    7.87500   IN                        BHS   OPEN
        SPDR  0.0                                 DO    0.0       F
        PP    NORM

                                 TAPE NOT MADE
```

```
      CALI(IN  )                                                       TENS(LB  )
6.0000             16.000                                  10000.                        0.0
      SP   (MV  )                                     DT   (US/F)
-100.0                0.0      175.00                                                 75.000
```

```
FILE     5        17-FEB-85 13:17
```



FILE 5 17-FEB-85 13:17

CALI(IN)			TENS(LB)	
6.0000	16.000		10000.	0.0
SP (MV)		DT (US/F)		
-100.0	0.0	175.00		75.000

MCDB CALIPER CALIBRATION SUMMARY

	MEASURED SMALL	 LARGE	CALIBRATED SMALL	 LARGE	UNITS
CALI	5.8	12.3	6.0	12.0	IN

FILE 7 17-FEB-85 13:45