Schlumberger

5" SONIC

CSU

```
COMPANY:     REICHHOLD ENERGY CORPORATION

WELL:        CZ 31-16

FIELD:       PITTSBURG
COUNTY:      COLUMBIA
STATE:       OREGON
NATION:      USA
LOCATION:    948.63 'S & 2479.46 'W
             OF NE COR
   SEC:      16          TWP: 5N          RGE: 4W


PERMANENT DATUM:          GL          ELEVATIONS-
ELEV. OF PERM. DATUM:     838.2 F       KB:   849.6 F
LOG MEASURED FROM:        KB            DF:
     11.4 F    ABOVE PERM. DATUM        GL:   838.2 F
DRLG. MEASURED FROM:      KB


DATE:                  26 JUL 85
RUN NO:                1

DEPTH-DRILLER:          2867.0 F
DEPTH-LOGGER:           2860.0 F
BTM. LOG INTERVAL:      2828.0 F
TOP LOG INTERVAL:        408.0 F

CASING-DRILLER:          403 F
CASING-LOGGER:           408 F
CASING:                8 5/8

BIT SIZE:              7 7/8
   DEPTH:               2867 F
```

```
OTHER SERVICES-
  FDC CNL GR
  HDT
  DIL


PROGRAM
TAPE NO:
  26.2
SERVICE
ORDER NO:
  432338
```

```
TYPE FLUID IN HOLE:   GELL LIGNO
DENSITY:              10.0 LB/G
VISCOSITY:            56.0 S
PH:                    9.0
FLUID LOSS:            6.2 C3
SOURCE OF SAMPLE:     FLOWLINE
RM:                    1.720 OHMM AT 80.0 DEGF
RMF:                   1.370 OHMM AT 81.0 DEGF
RMC:                   1.580 OHMM AT 85.0 DEGF
SOURCE RMF/RMC:       MEAS/MEAS
RM AT BHT:             1.398 OHMM AT 100. DEGF
RMF AT BHT:            1.126 OHMM AT 100. DEGF
RMC AT BHT:            1.358 OHMM AT 100. DEGF

TIME CIRC. STOPPED:   0530 7/26
TIME LOGGER ON BTM.:  8:40 7/26

MAX. REC. TEMP:       100.0 DEGF
```

LOGGING UNIT NO: 8126
LOGGING UNIT LOC: SACRAMENTO
RECORDED BY: KUNKLER
WITNESSED BY: THOMAS

REMARKS:

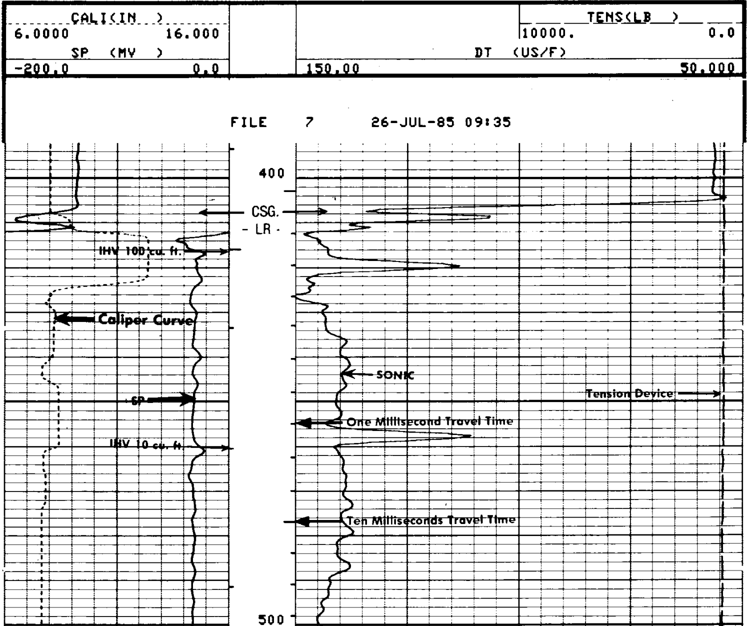
CENTRALIZERS AND STANDOFFS USED
DIL AND SLT RUN IN COMBO

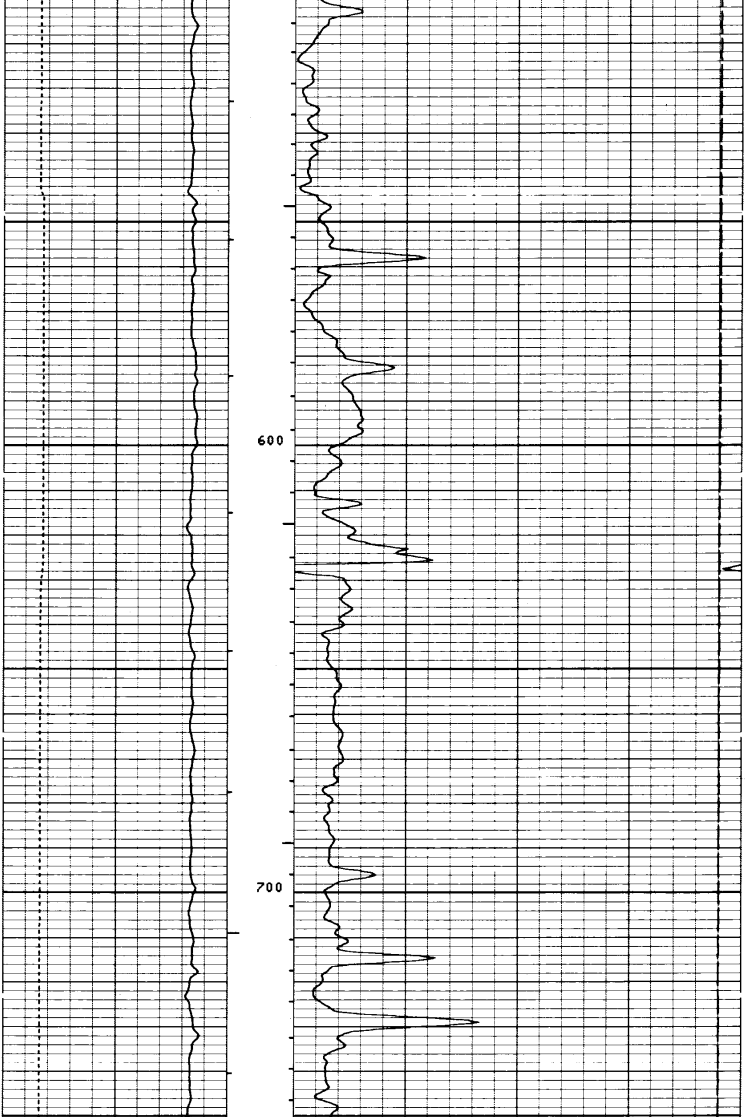
EQUIPMENT NUMBERS-

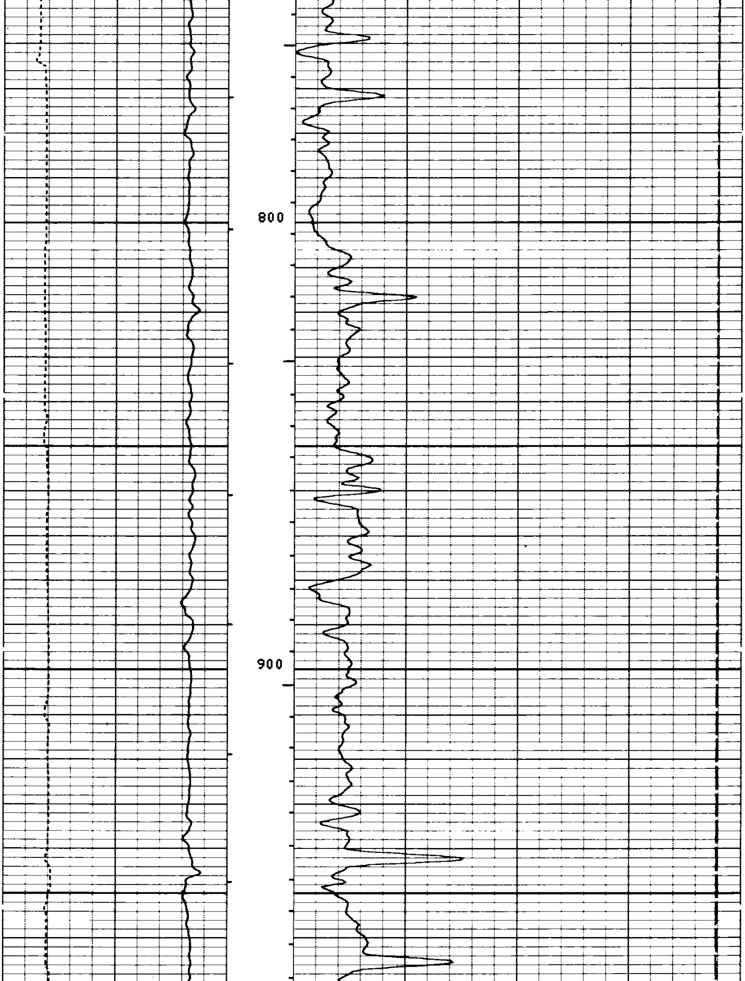
DIS 1422 DIC 1149 SLS 1082 SLC 1259
MCD 1186

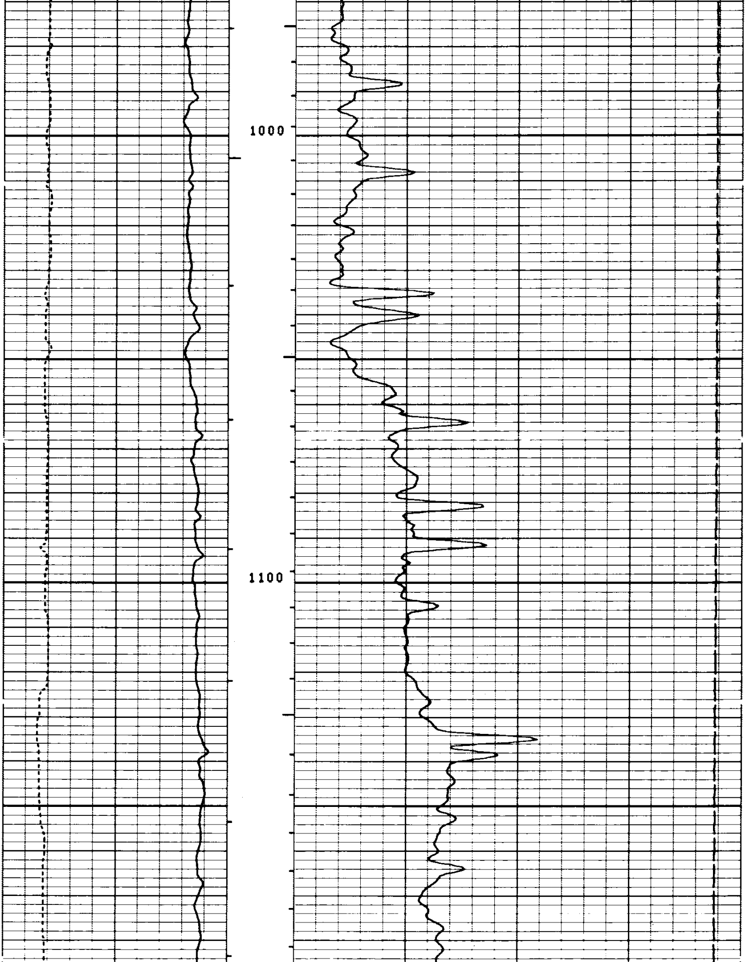
ALL INTERPRETATIONS ARE OPINIONS BASED ON INFERENCES FROM ELECTRICAL OR OTHER MEASUREMENTS AND WE CANNOT, AND DO NOT GUARANTEE THE ACCURACY OR CORRECTNESS OF ANY INTERPRETATIONS, AND WE SHALL NOT, EXCEPT IN THE CASE OF GROSS OR WILLFUL NEGLIGENCE ON OUR PART, BE LIABLE OR RESPONSIBLE FOR ANY LOSS, COSTS,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

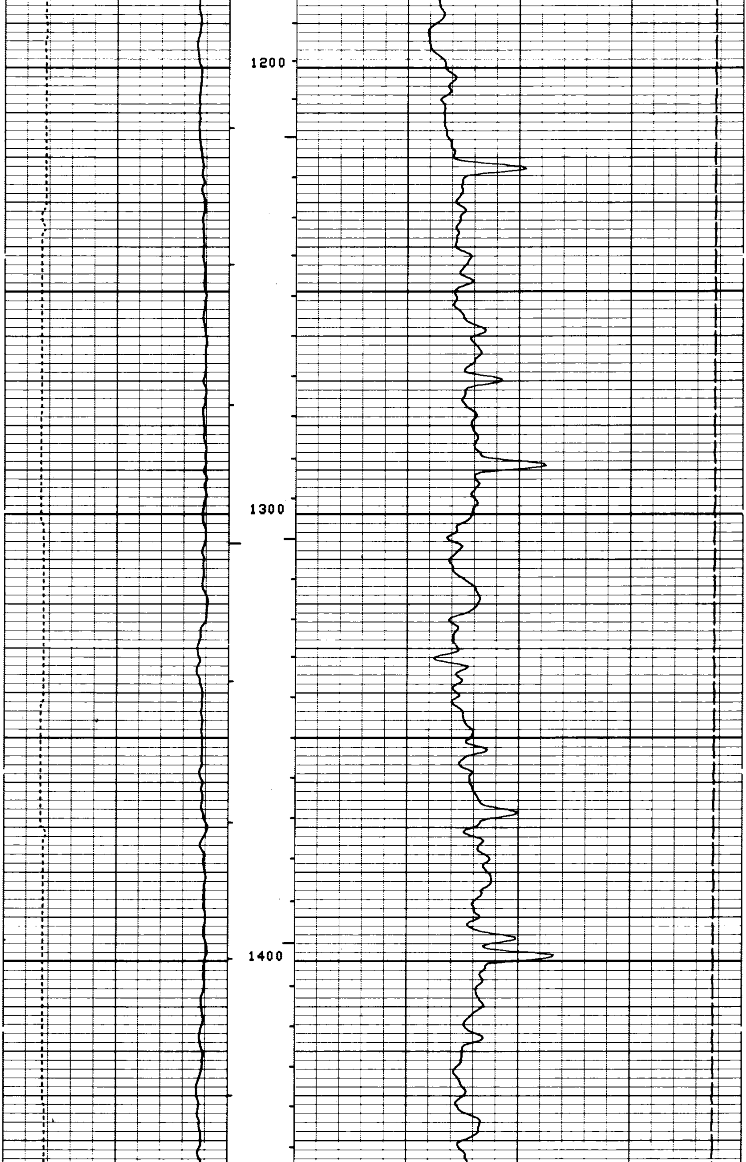
FILE 7 26-JUL-85 10:30
DATA ACQUIRED 26-JUL-85 09:35

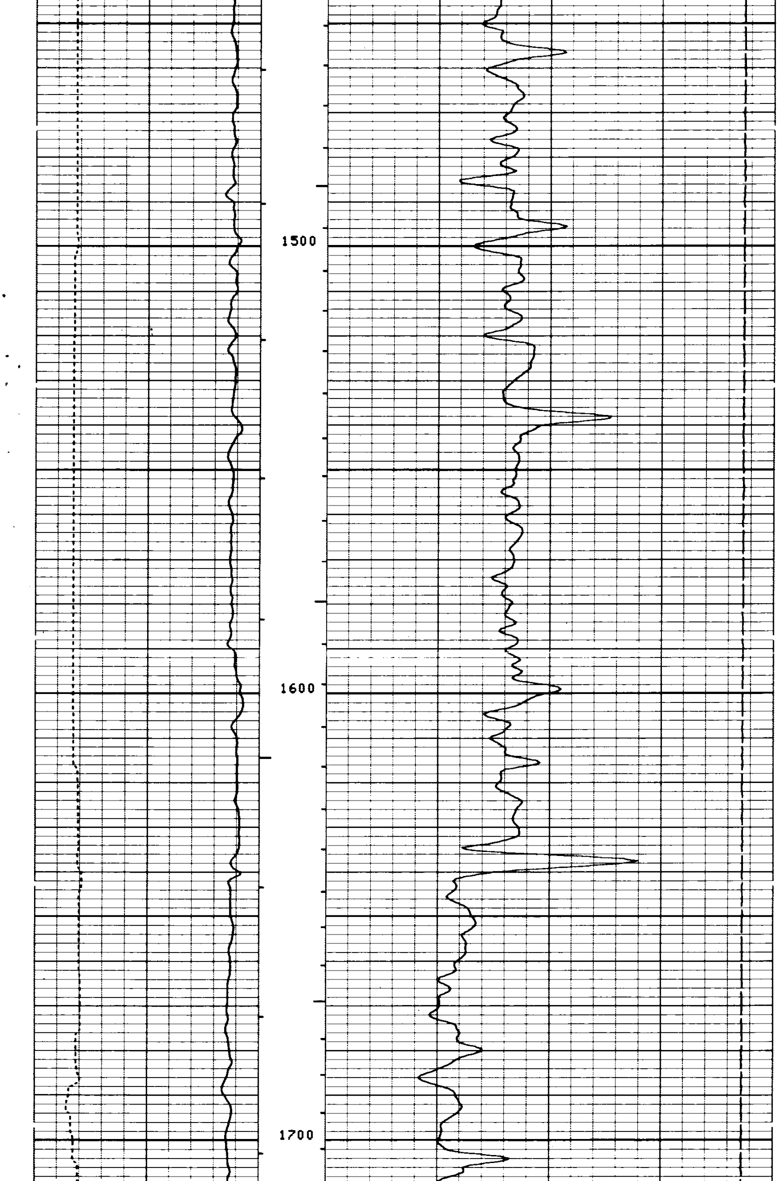


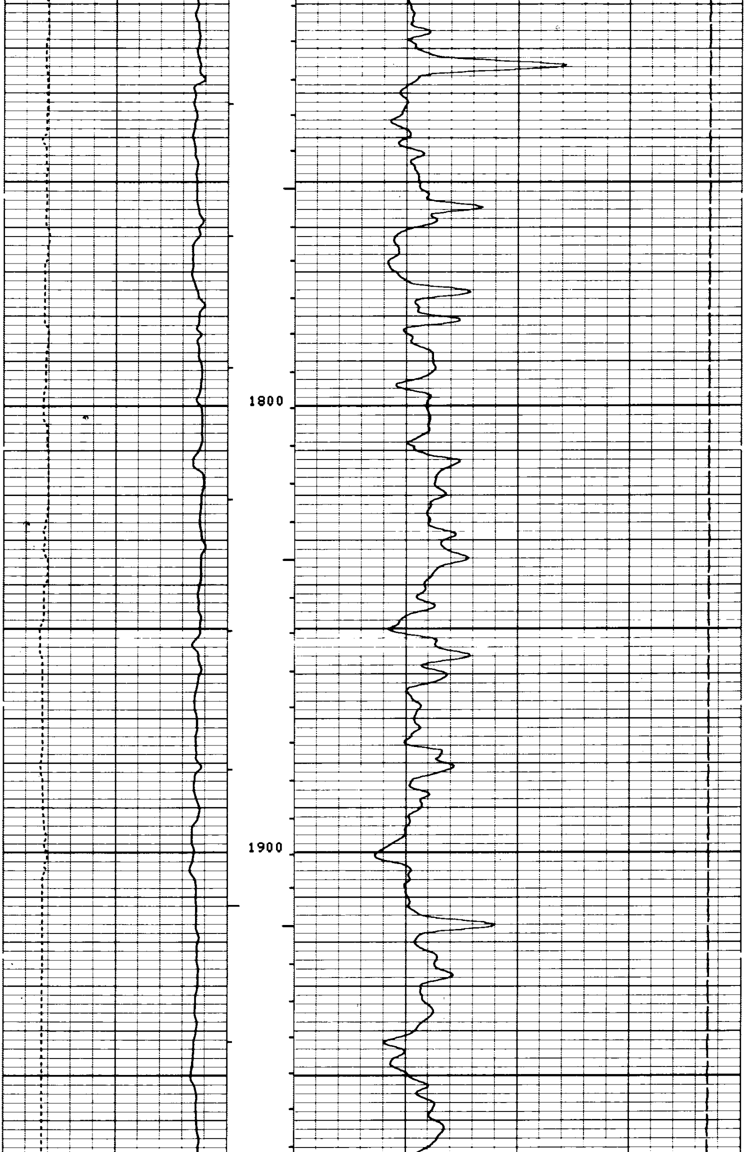


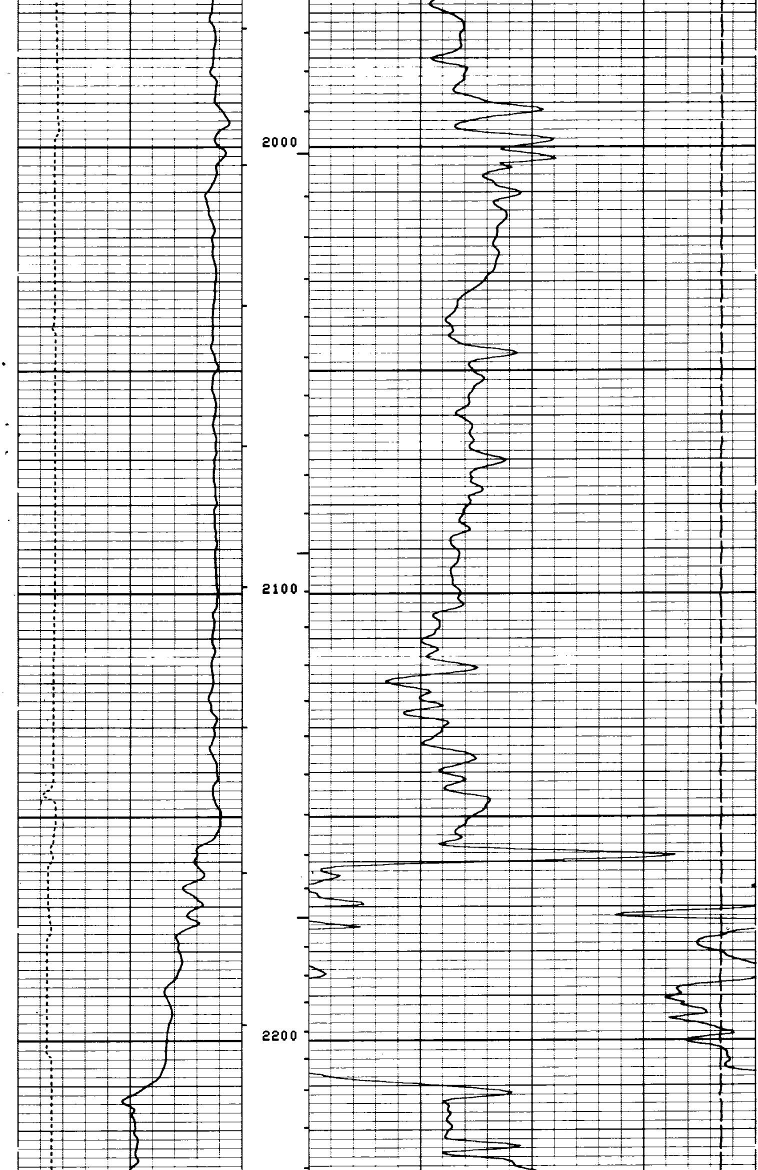


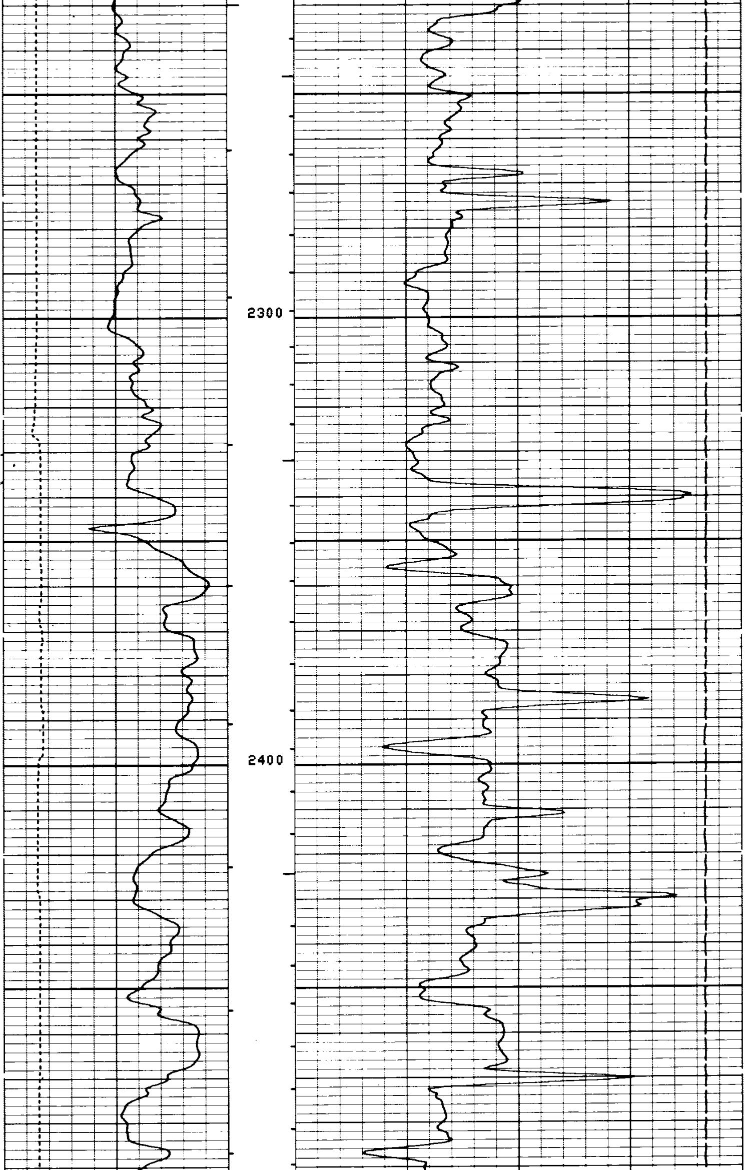


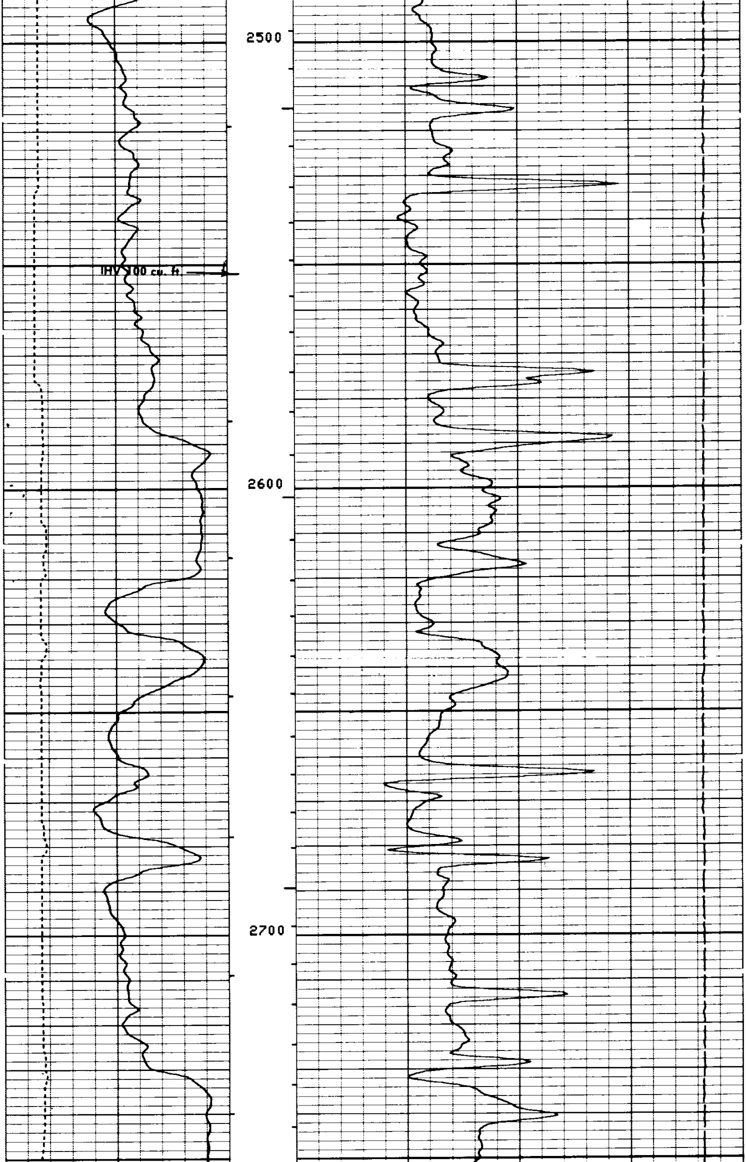


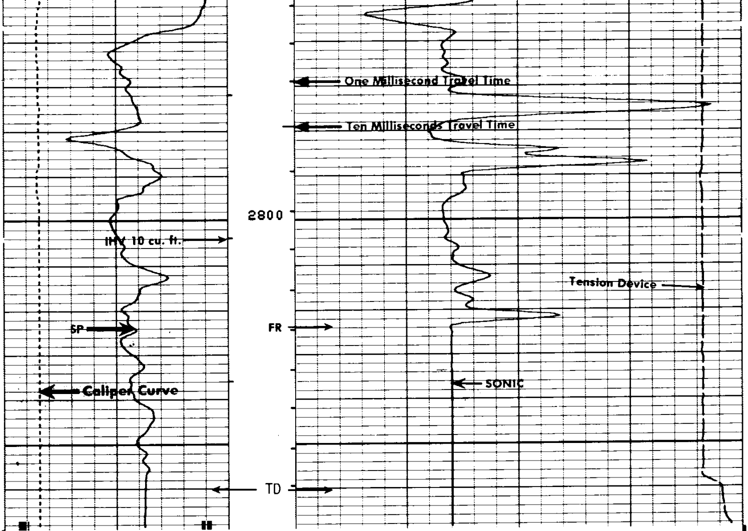












FILE 7 26-JUL-85 08:48

CALI(IN)	6.0000 — 16.000
SP (MV)	-200.0 — 0.0
TENS(LB)	10000. — 0.0
DT (US/F)	150.00 — 50.000

SENSOR MEASURE POINT TO TOOL ZERO

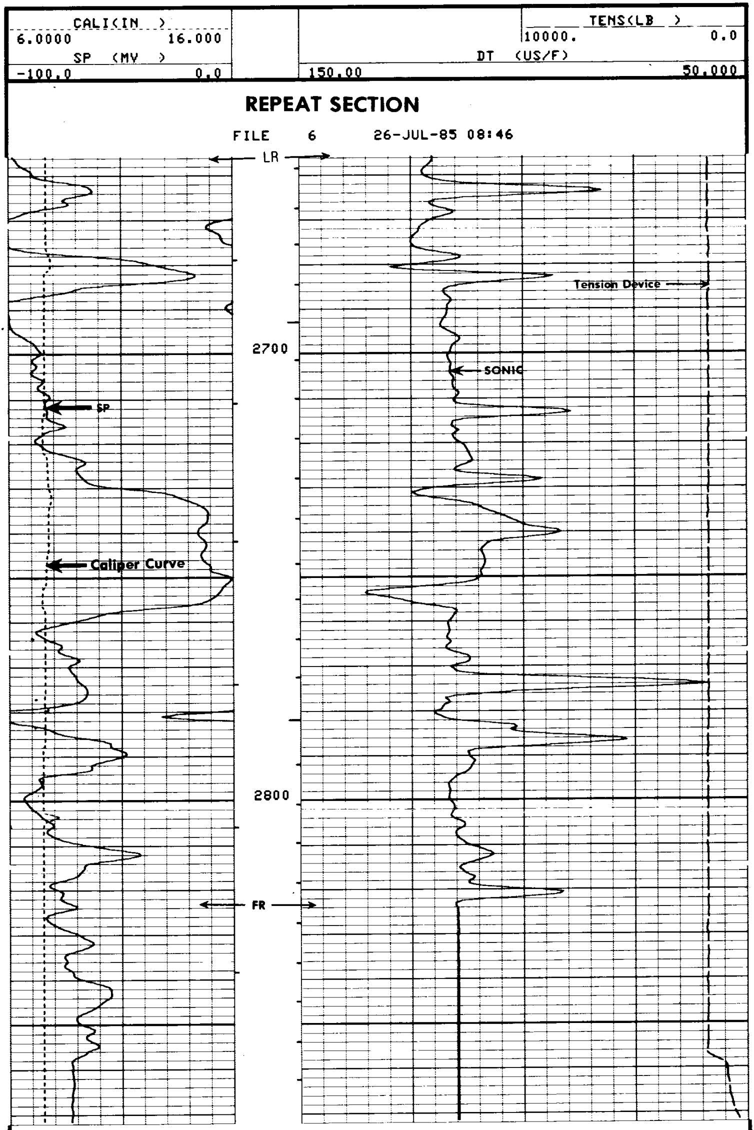
CBL	37.0	FEET	AMPL	37.0	FEET
TT3	33.3	FEET	TT4	32.3	FEET
TT1	36.0	FEET	TT2	37.0	FEET
CALI	56.1	FEET	SRAT	34.5	FEET
SFL	6.4	FEET	ILD	9.4	FEET
SP	2.5	FEET	ILM	5.7	FEET
TENS	2.5	FEET	SPAR	2.5	FEET
NOIS	28.8	FEET			

PARAMETERS

NAME	VALUE	UNIT	NAME	VALUE	UNIT
WSV1	WF1		DWS	16	
DSIN	5	US	DDEL	200	US
CDTS	100.000		DWCO	512	
DTF	189.000	US/F	DTM	56.0000	US/F
SBR	1.00000	OHMM	DSEC	4.30000	MMHO
FPHI	SPHI		MSEC	6.20000	MMHO
BS	7.87500	IN	BHS	OPEN	

REPEAT SECTION

FILE 6 26-JUL-85 08:46



FILE 6 26-JUL-85 08:40

CALI(IN)
6.0000 16.000
SP (MV)
-100.0 0.0

TENS(LB)
10000. 0.0
DT (US/F)
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

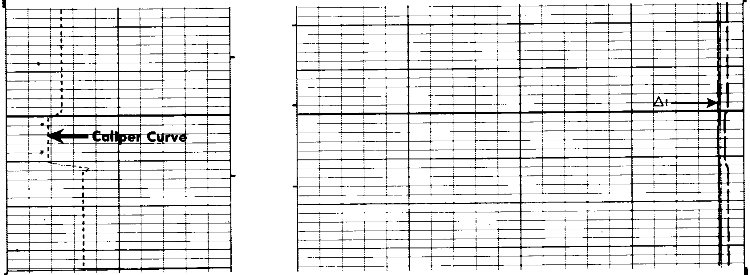
NAME	VALUE	UNIT	NAME	VALUE	UNIT
WSV1	WF1		DWS	16	
DSIN	5	US	DDEL	200	US
CDTS	100.000		DWCO	512	
DTF	189.000	US/F	DTM	56.0000	US/F
SBR	1.00000	OHMM	DSEC	4.30000	MMHO
FPHI	SPHI		MSEC	6.20000	MMHO
BS	7.87500	IN	BHS	OPEN	

CALI(IN)
6.0000 16.000
SP (MV)
-100.0 0.0

TENS(LB)
10000. 0.0
DT (US/F)
150.00 50.000

Check in Casing-

FILE 3 26-JUL-85 08:20



FILE 3 26-JUL-85 08:20

CALI(IN)
6.0000 16.000
SP (MV)
-100.0 0.0

TENS(LB)
10000. 0.0
DT (US/F)
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			

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                                 PARAMETERS

        NAME  VALUE    UNIT                         NAME  VALUE    UNIT

        WSV1 WF1                                    DWS   16
        DSIN 5         US                           DDEL 200       US
        CDTS 100.000                                DWCO 512
        DTF  189.000   US/F                         DTM   56.0000  US/F
        SBR  1.00000   OHMM                         DSEC 4.30000   MMHO
        FPHI SPHI                                   MSEC 6.20000   MMHO
        BS   7.87500   IN                           BHS  OPEN
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  MCDB               CALIPER CALIBRATION SUMMARY

                MEASURED                          CALIBRATED
             SMALL   LARGE                     SMALL     LARGE       UNITS
    CALI      6.2    12.6                       6.0      12.0         IN

                         FILE     5      26-JUL-85 08:32
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