Schlumberger

BOREHOLE COMPENSATED SONIC LOG

COUNTY
FIELD
LOCATION
WELL
COMPANY

RECEIVED
FEB 24 1982

COMPANY AMERICAN QUASAR PETROLEUM

WELL WOLVERTON 13-31

FIELD JEFFERSON (EAST ALBANY)

COUNTY MARION STATE OREGON

LOCATION 1100'S & 1800'W OF NE COR

API SERIAL NO.	SEC.	TWP	RANGE
	13	10S	3W

Other Services:
DIL
FDC/CNL/GR
HDT
CST
CIS

Permanent Datum: GL ; Elev.: 234
Log Measured From KB 11 Ft. Above Perm. Datum
Drilling Measured From KB

Elev.: K.B. 245
D.F. –
G.L. 234

Date	9/28/81			
Run No.	ONE			
Depth—Driller	4555			
Depth—Logger (Schl.)	4550			
Btm. Log Interval	4508			
Top Log Interval	893			
Casing—Driller	8 7/8 @ 895	@	@	@
Casing—Logger	893			
Bit Size	7 7/8			
Type Fluid in Hole	DRISPAC/KCL			
Dens. | Visc.	11.6 | 181			
pH | Fluid Loss	8.0 | 4.2 ml	ml	ml	ml
Source of Sample	FLOWLINE			
Rm @ Meas. Temp.	.483 @ 86 °F	@ °F	@ °F	@ °F
Rmf @ Meas. Temp.	.368 @ 63 °F	@ °F	@ °F	@ °F
Rmc @ Meas. Temp.	1.19 @ 68 °F	@ °F	@ °F	@ °F
Source: Rmf | Rmc	M | M			
Rm @ BHT	.371 @ 114 °F	@ °F	@ °F	@ °F
TIME Circulation Stopped	1000			
TIME Logger on Bottom	1530			
Max. Rec. Temp.	114 °F	°F	°F	°F
Equip. | Location	8128 | SAC			
Recorded By	S. MAYER			
Witnessed By	K. MANN			

FOLD HERE

The well name, location and borehole reference data were furnished by the customer.

Run No.	ONE			
Service Order No.	205589			
Fluid Level	FULL			

EQUIPMENT DATA

Sonic Panel No.	131			
Sonic Cart No.	1002			
Sonic Sonde No.	2251			
Mem. Panel No.	–			
G.R. Cart. No.	–			
G.R. Panel No.	–			
Caliper No.	663			
TTR No.	–			
Centralizers: No.	1			
Type	CALIPER			
Standoffs: No.	1			
Type	FIN			
Time Const.-Sec.	–			
Speed - F.P.M.	60			

CALIBRATION DATA

GR	BKG. CPS	–			
	Source CPS	–			
	Tc Sec	–			

SCALE CHANGES

Type Log	Depth	Scale Up Hole	Scale Down Hole

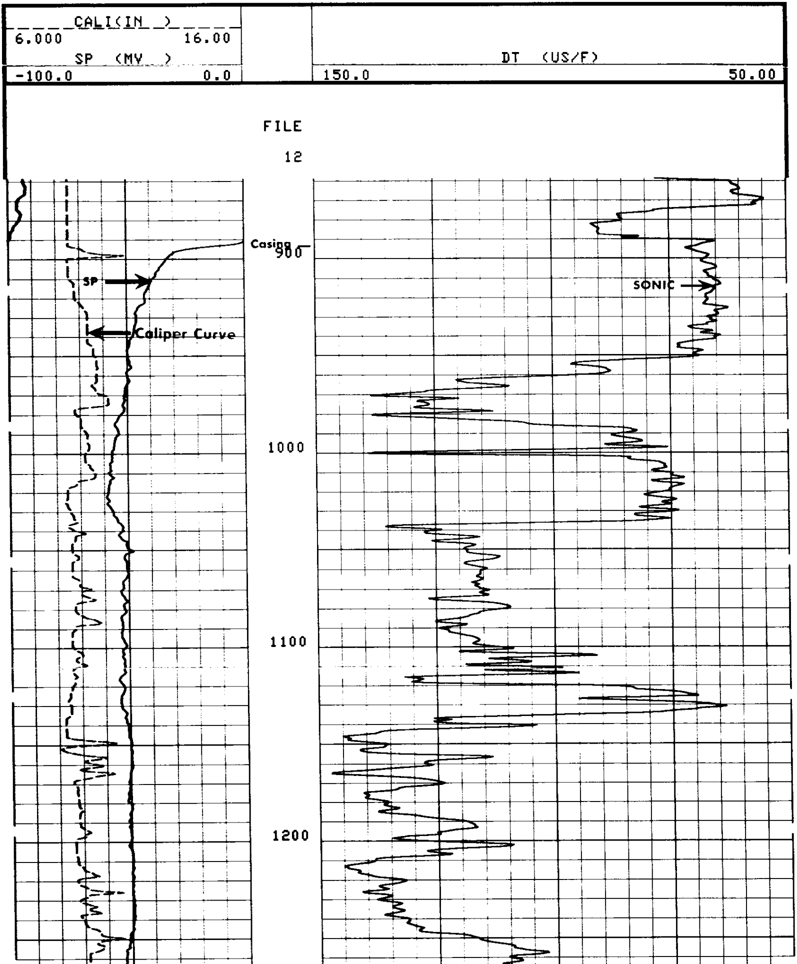
LOGGING DATA

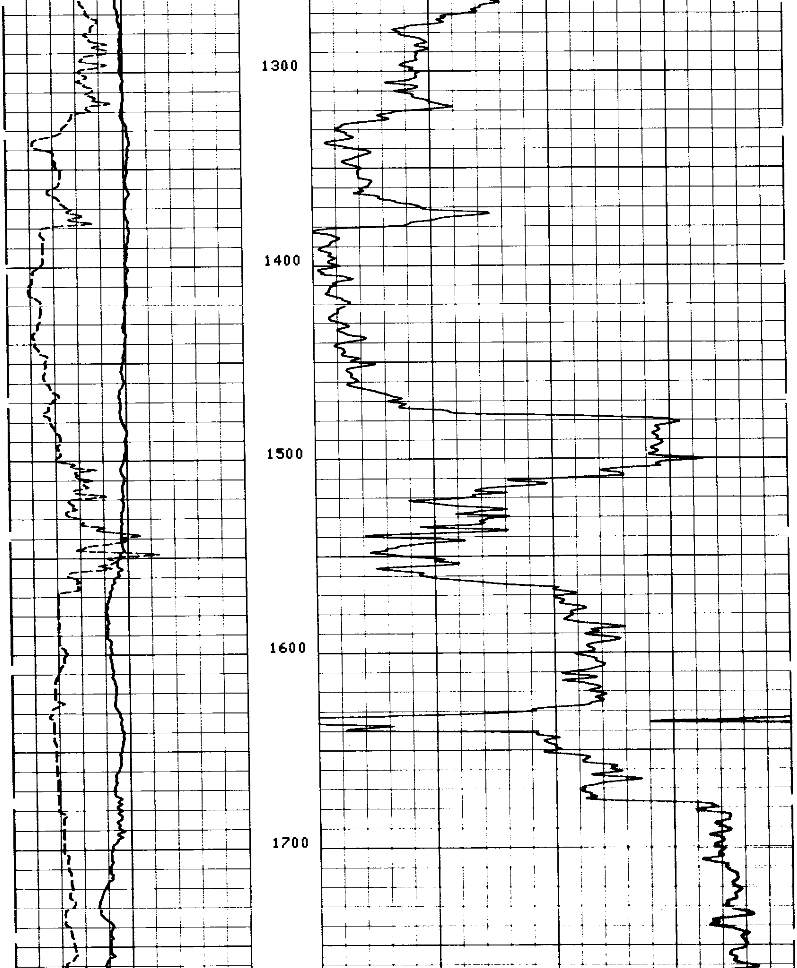
Porosity Selectors				Depth	
Δt_m	Δt_f	Cp	Ø Scale	From	To
55.6	189	140		TD	1800
"	"	160		1800	900

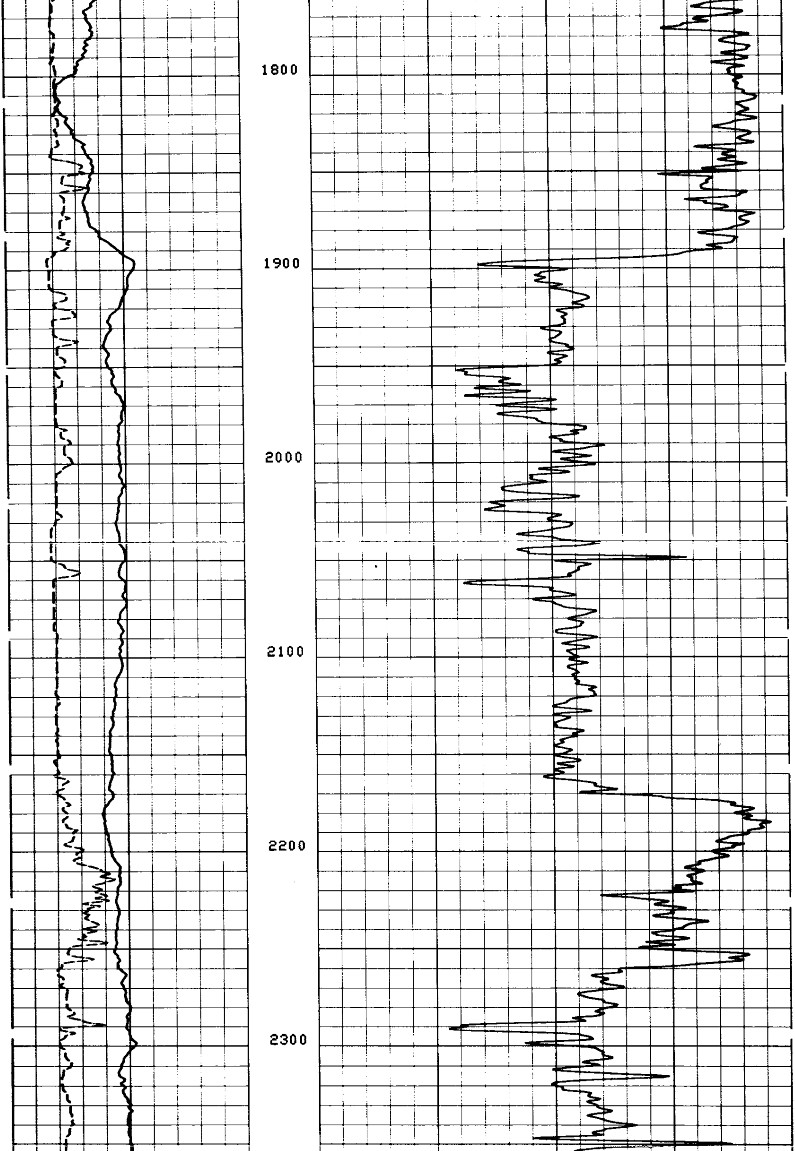
REMARKS

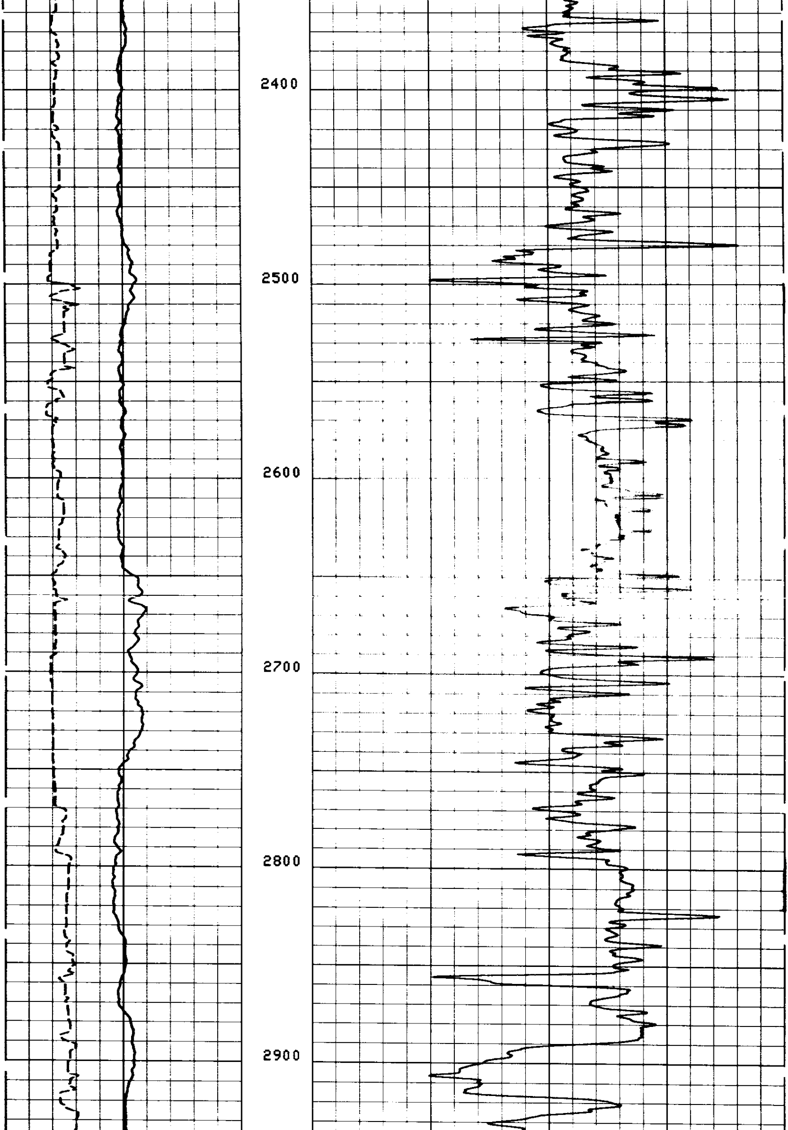
$$\text{Velocity (ft/sec)} = \frac{1{,}000{,}000}{\text{Interval Transit Time (microseconds per foot)}}$$

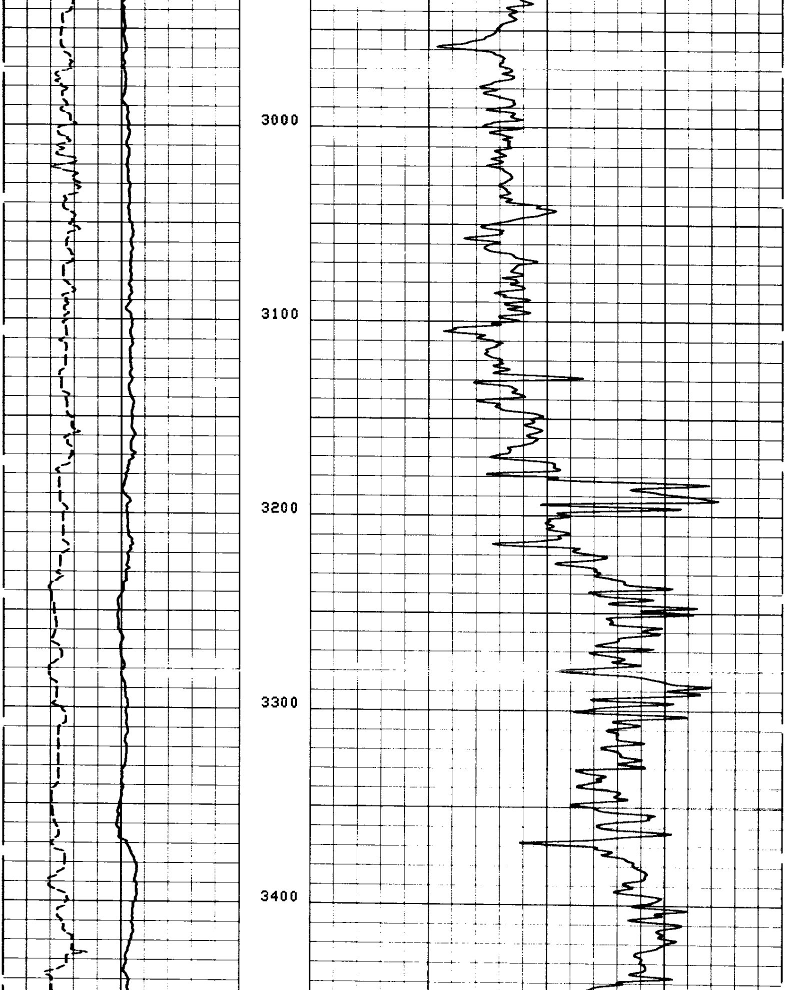
All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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.

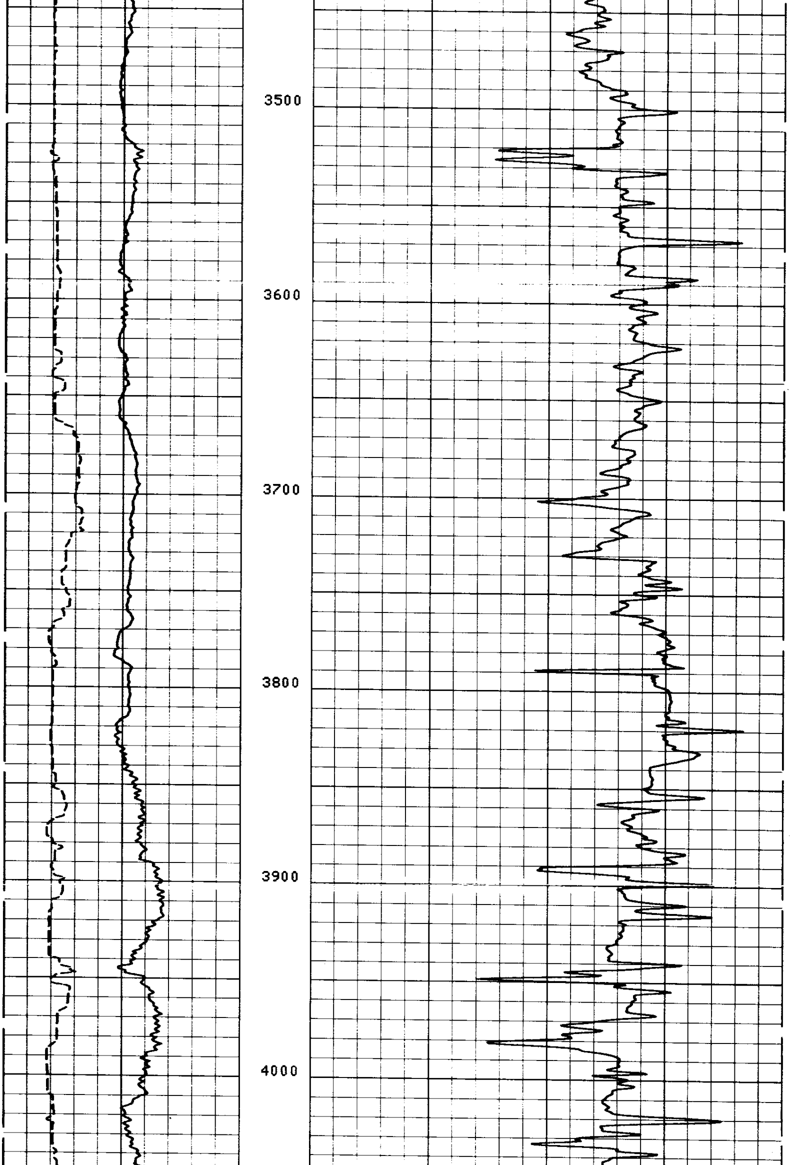


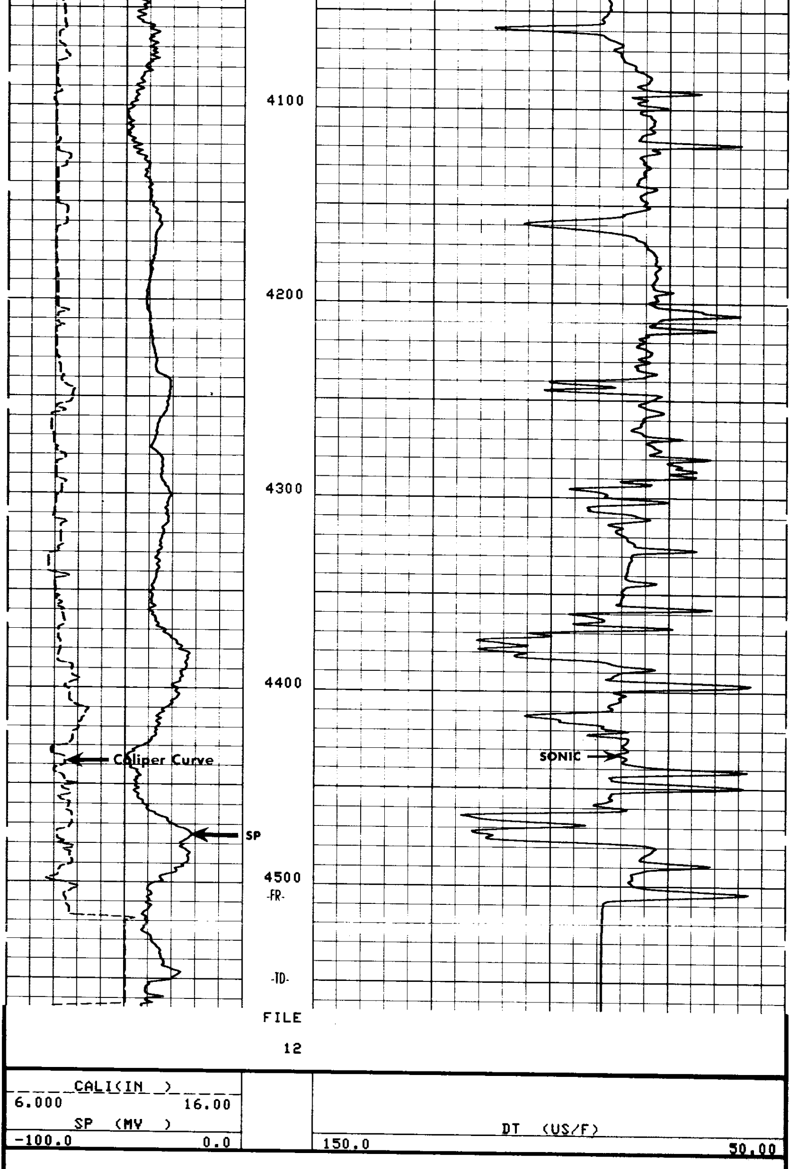












SENSOR MEASURE POINT TO TENSION REFERENCE POINT

AMPL	41.4	FEET	DT	38.9	FEET
SRAT	38.9	FEET	CBL	41.4	FEET
CALI	29.3	FEET	TT	41.4	FEET
SFL	3.9	FEET	ILD	6.9	FEET
SP	.0	FEET	ILM	3.3	FEET
TENS	.0	FEET	SPAR	.0	FEET
NOIS	33.2	FEET			

PARAMETERS

NAME	VALUE	UNIT	NAME	VALUE	UNIT
CDTS	140.0		BS	7.875	IN
DTF	189.0	US/F	DTM	55.60	US/F
SBR	1.000	OHMM	DSEC	2.900	MMHO
FPHI	SPHI		MSEC	0.0	MMHO
DO	0.0		BHS	OPEN	

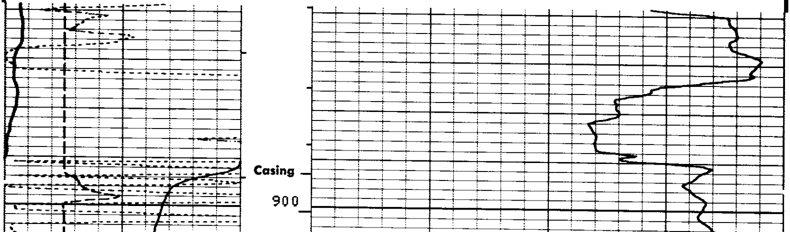
CHANGED PARAMETERS

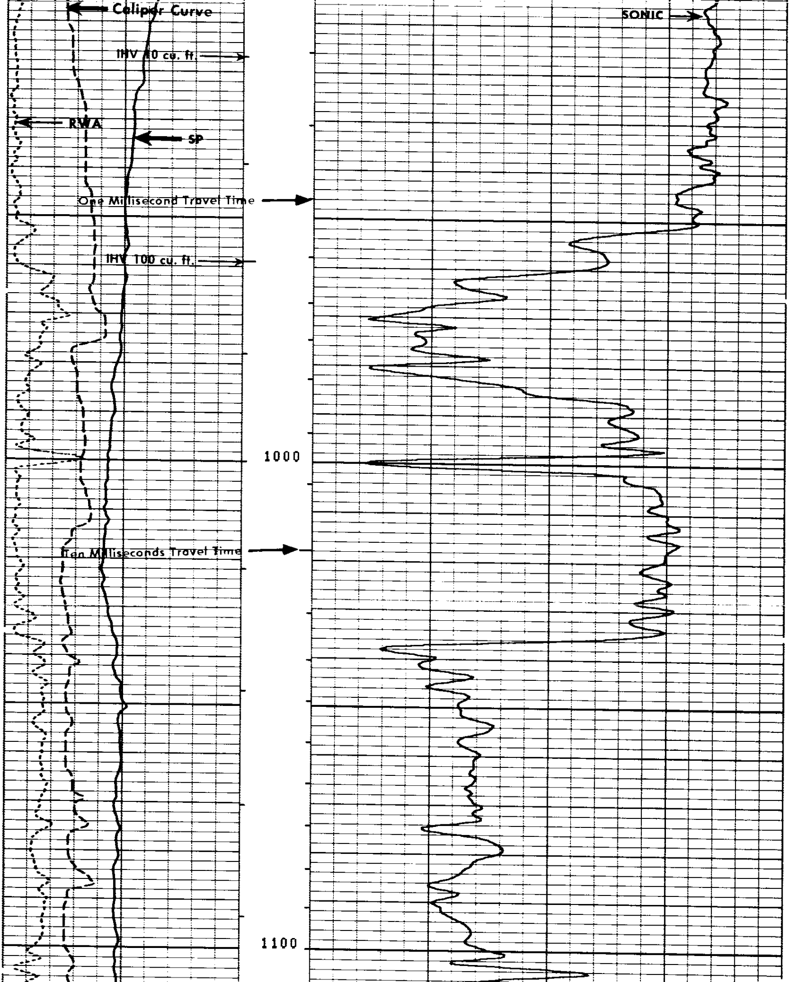
NAME	VALUE	UNIT	NAME	VALUE	UNIT
CDTS	160.0				

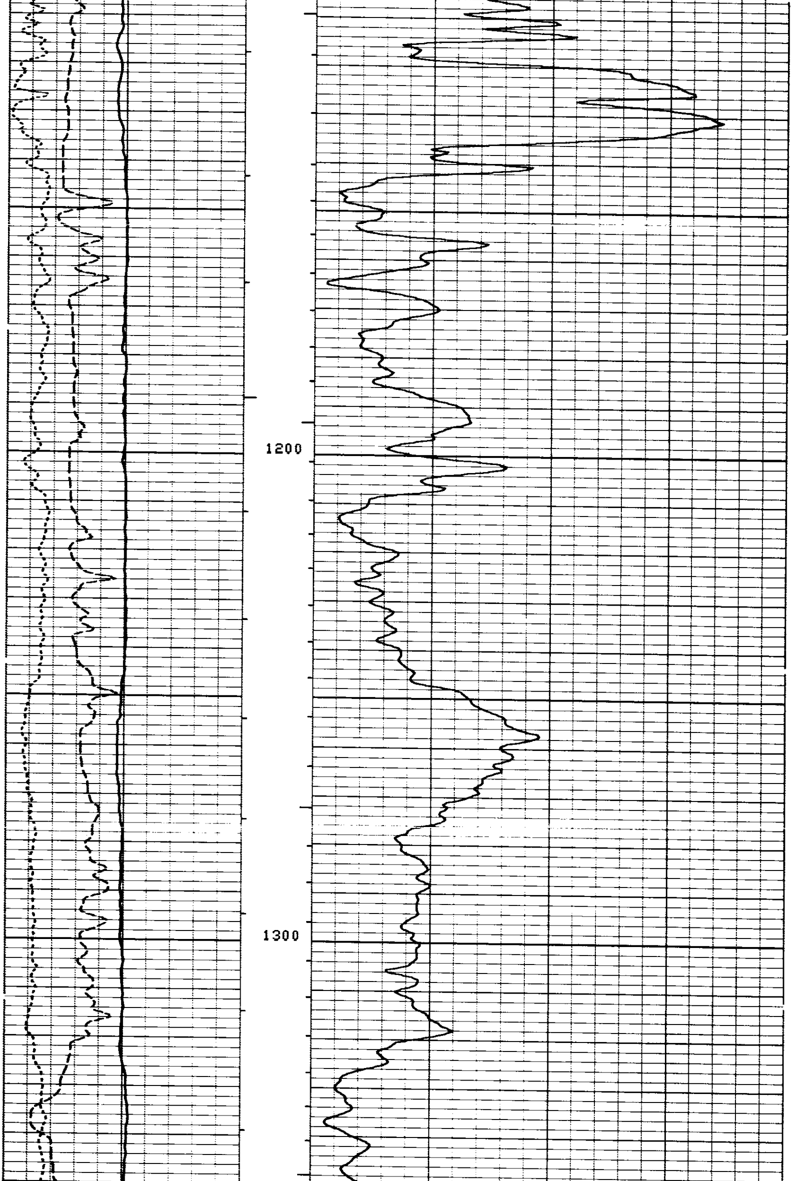
RWA (OHMM)	0.0	3.000
CALI(IN)	6.000	16.00
SP (MV)	-100.0	0.0
DT (US/F)	150.0	50.00

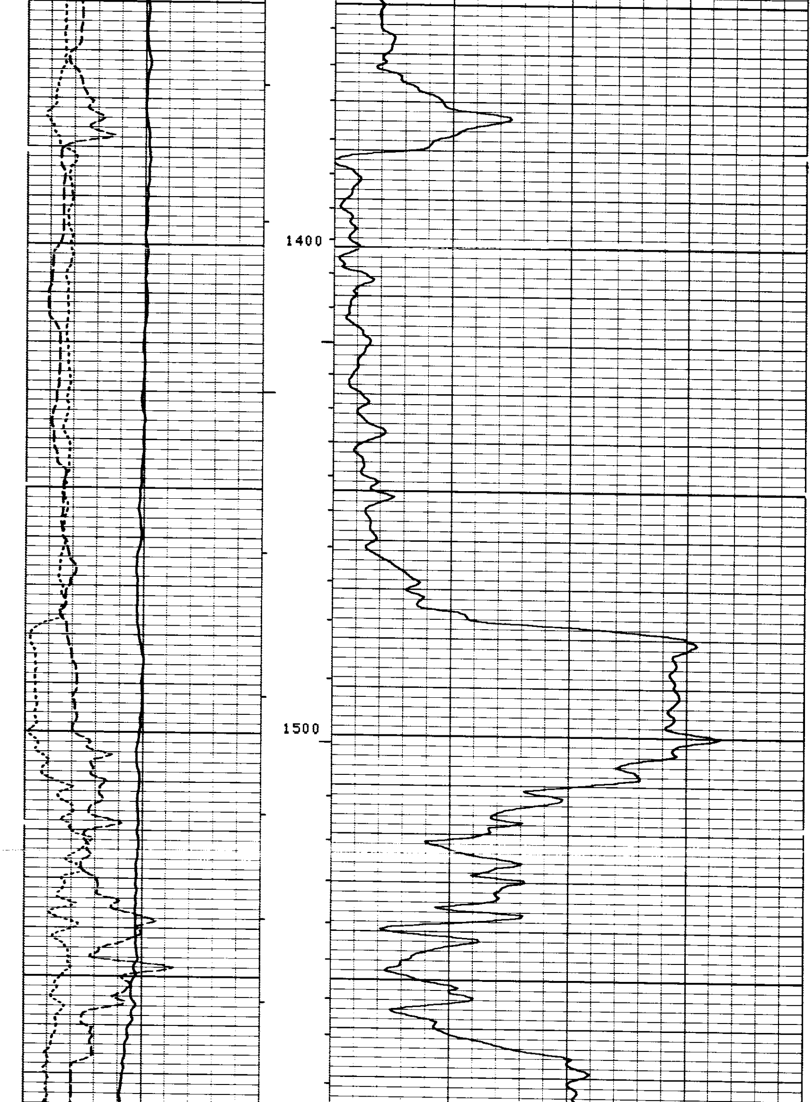
FILE

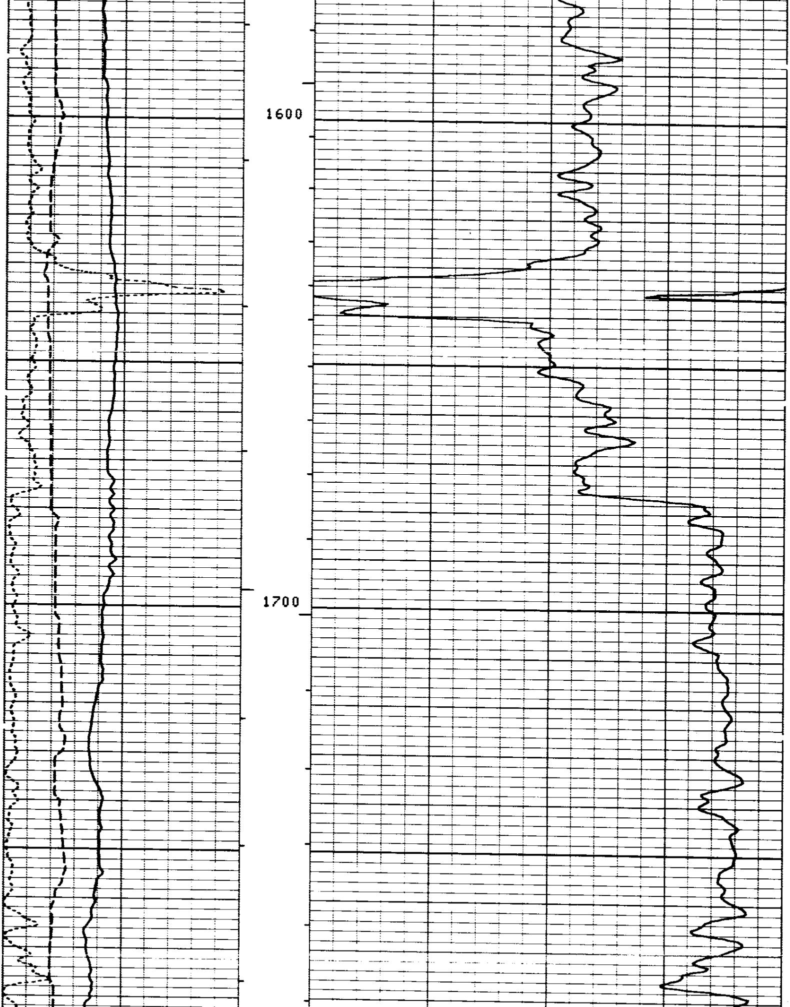
12

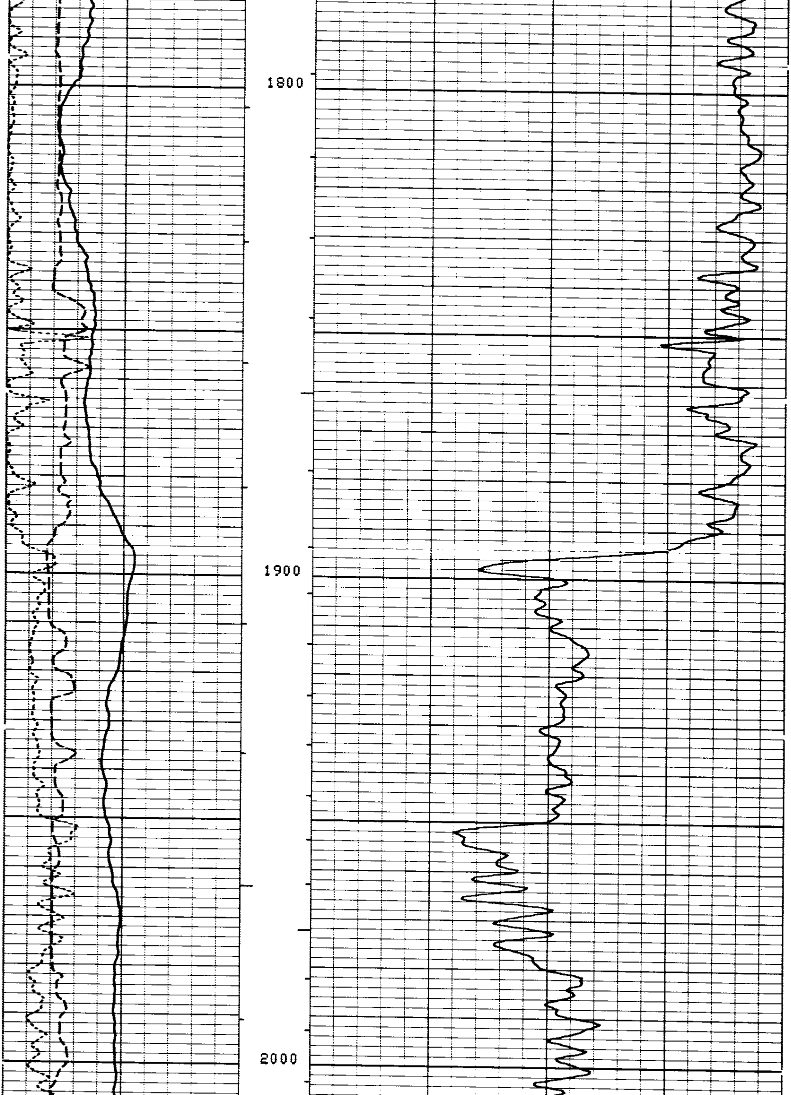


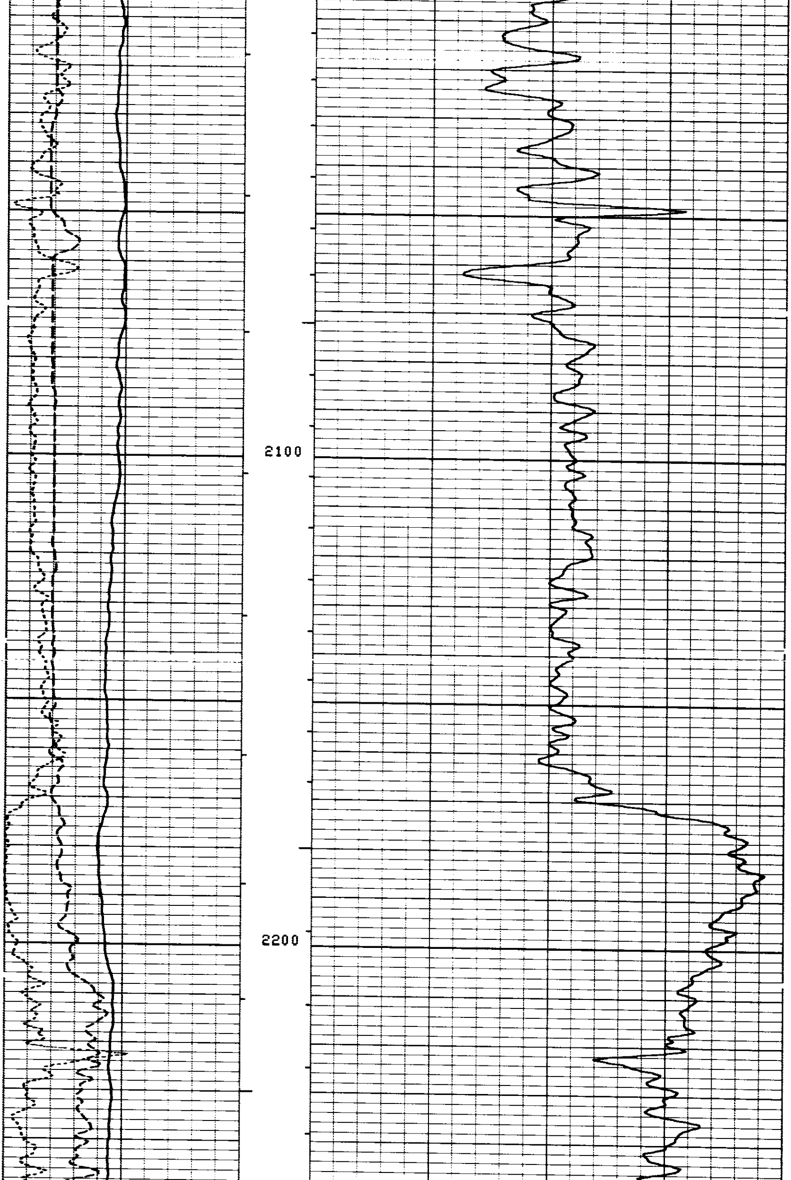


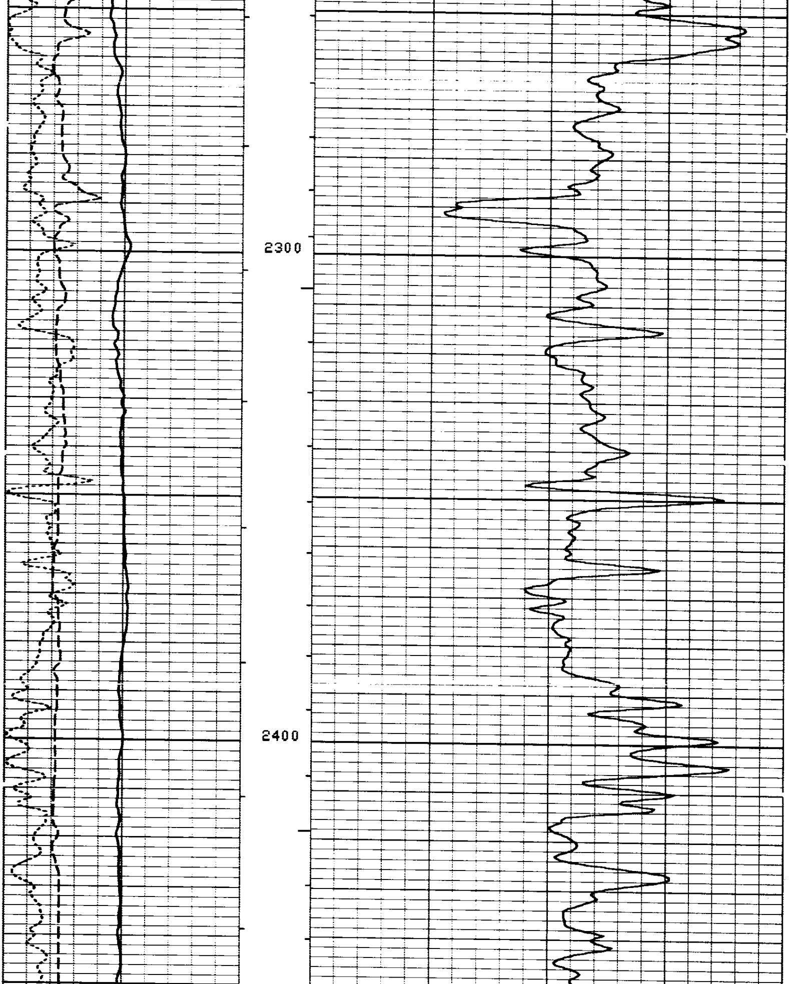


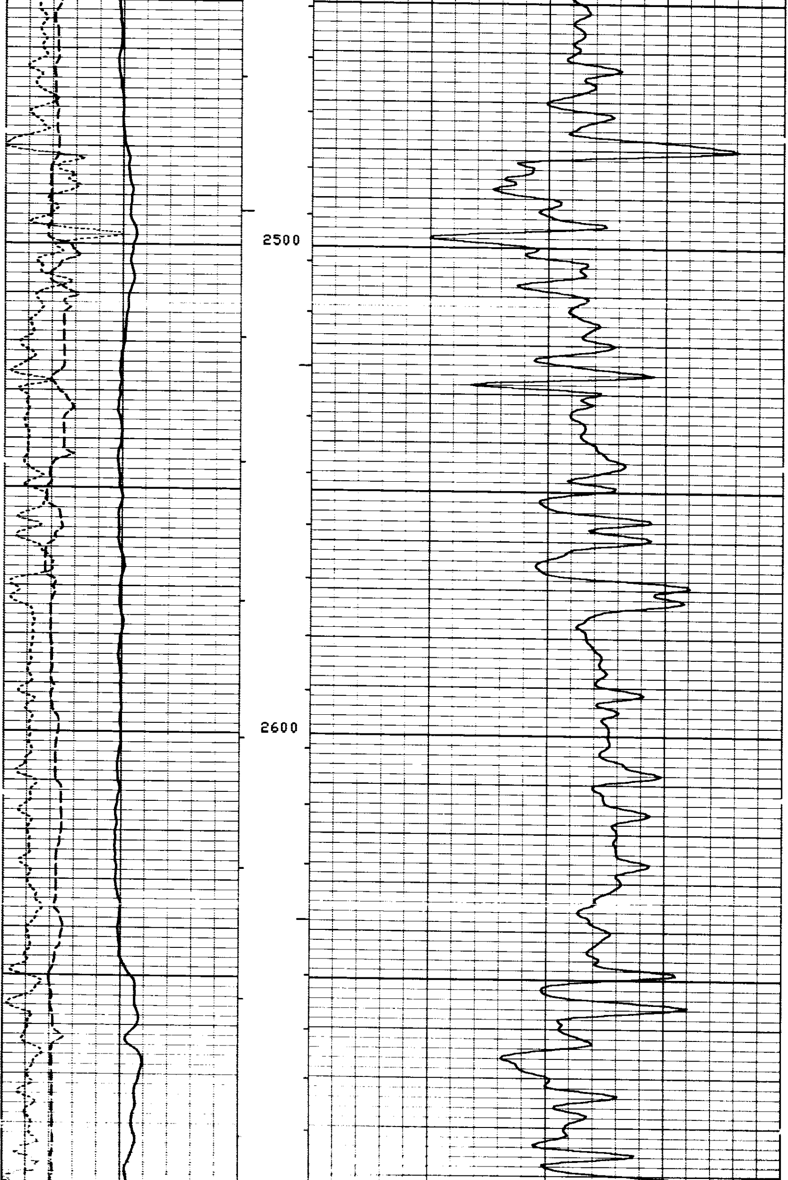


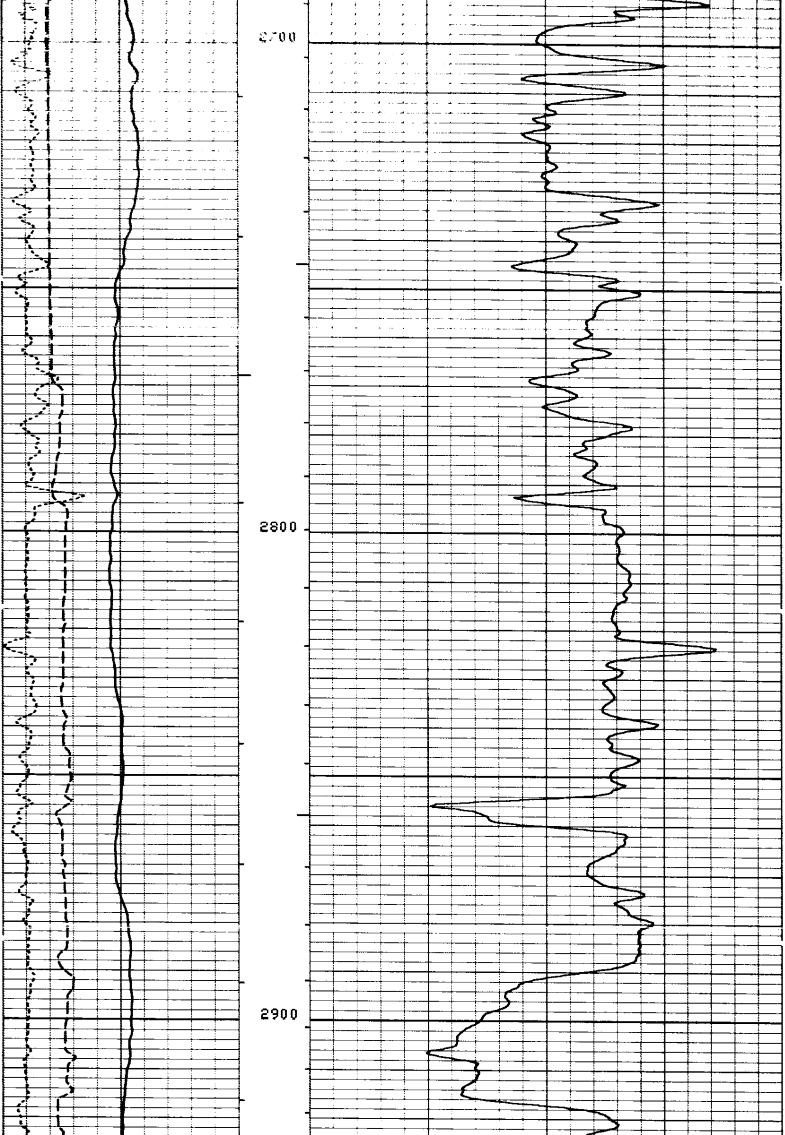


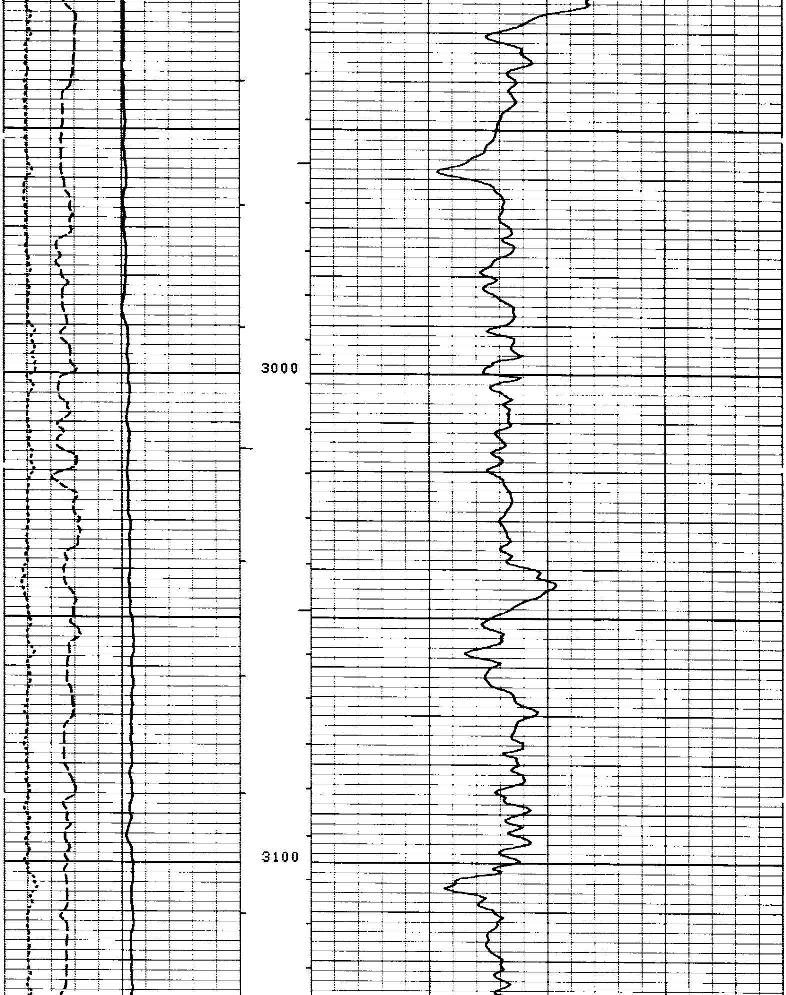


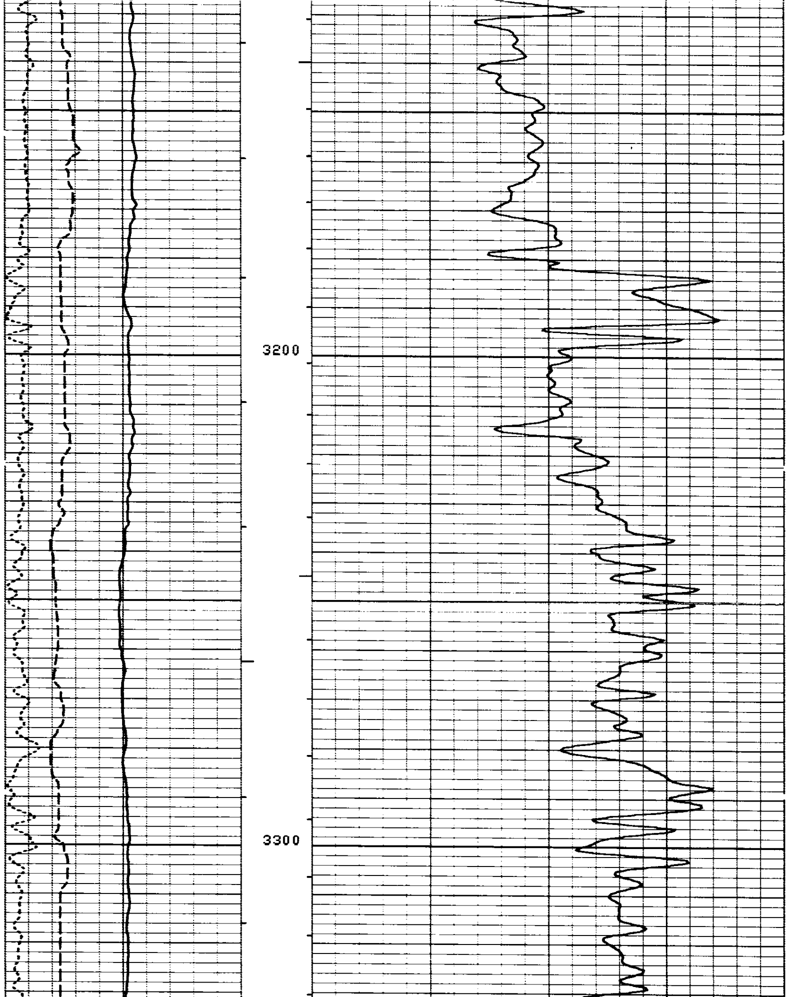


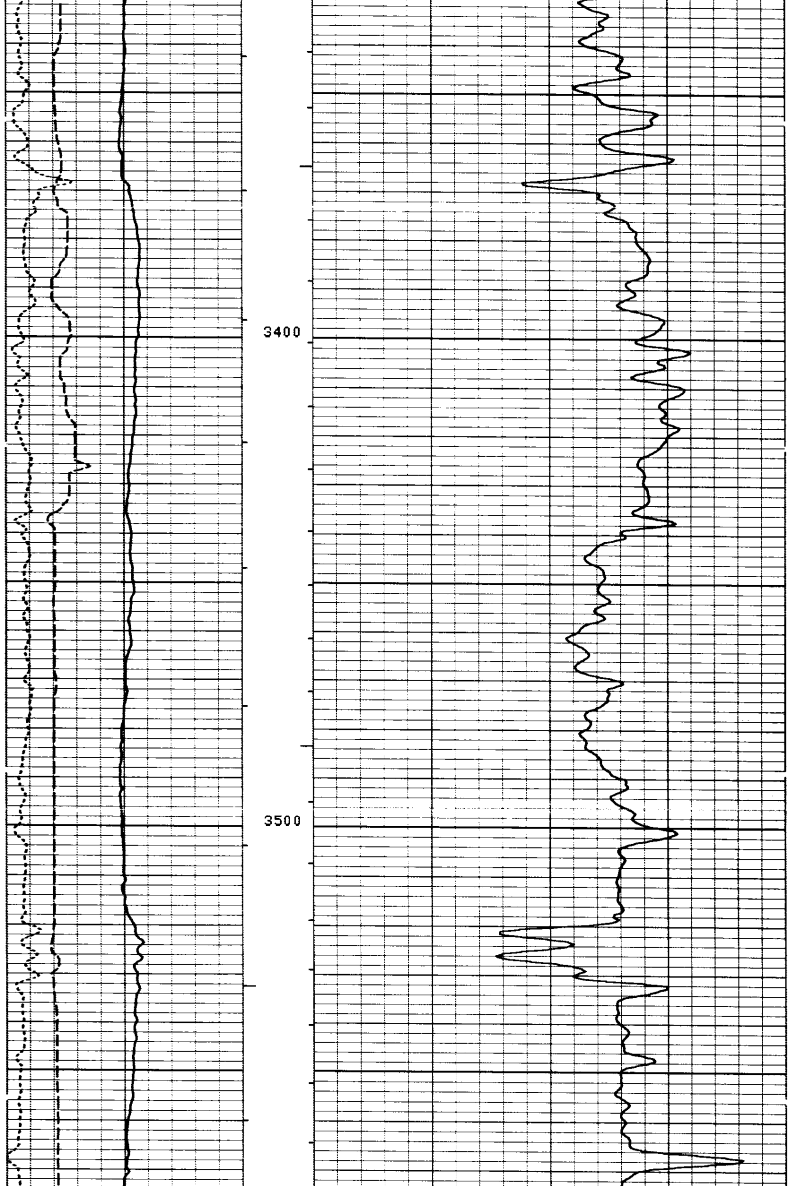


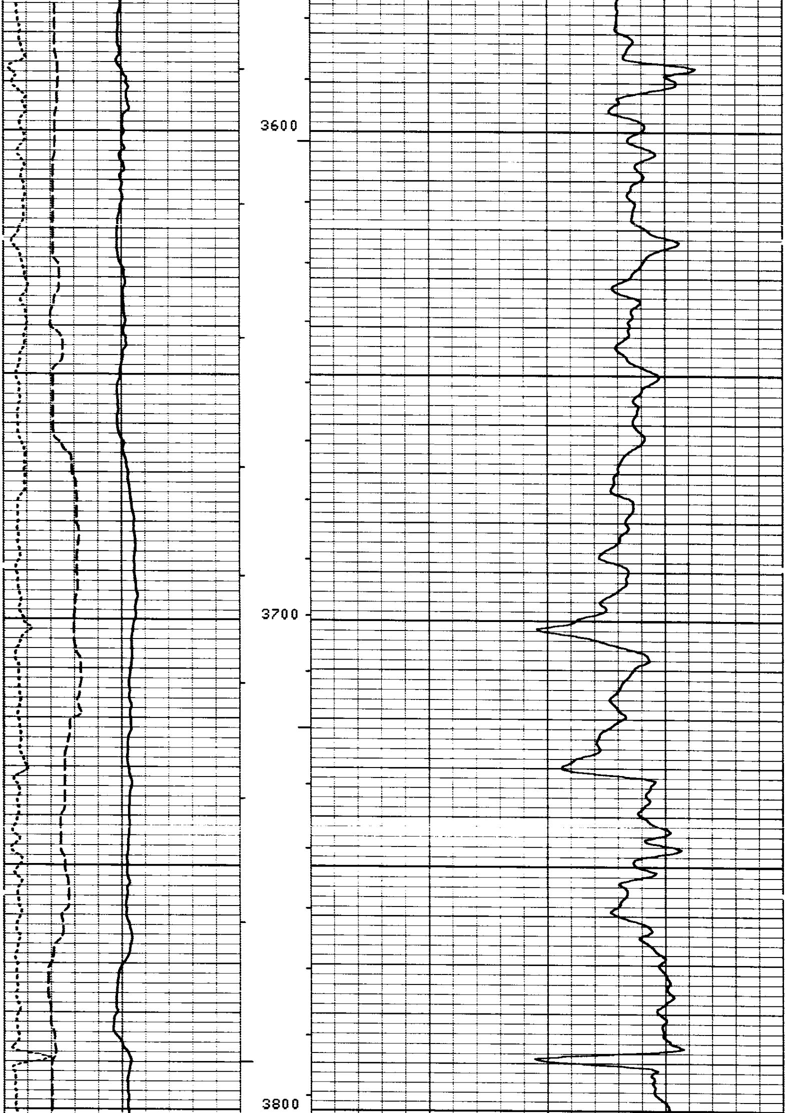


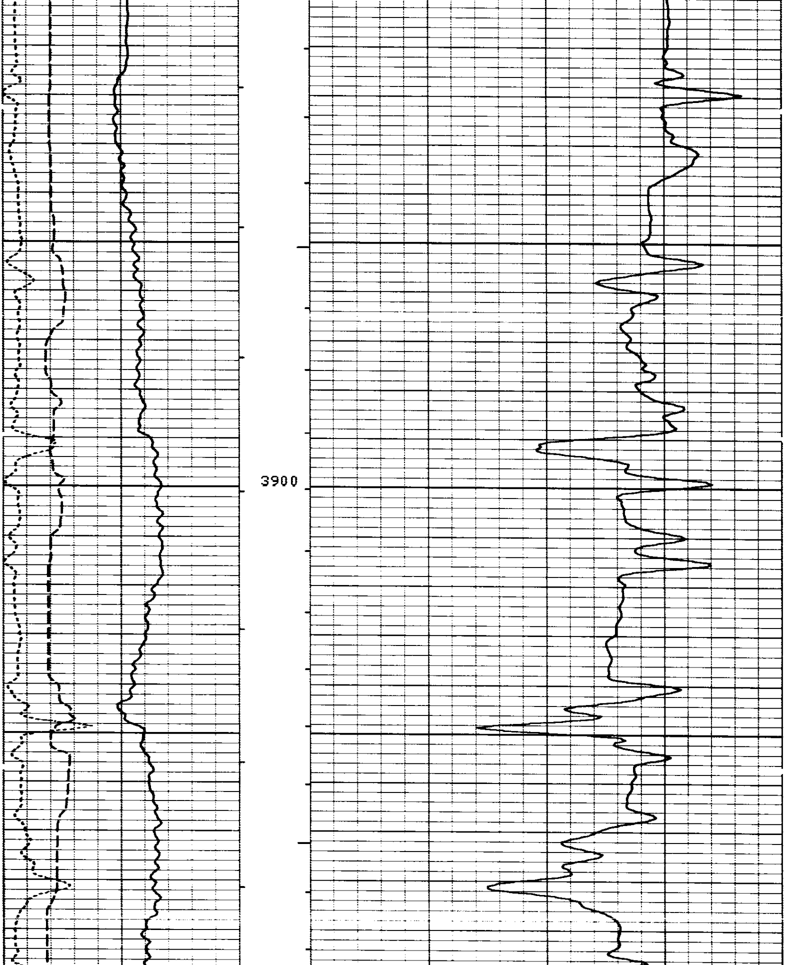


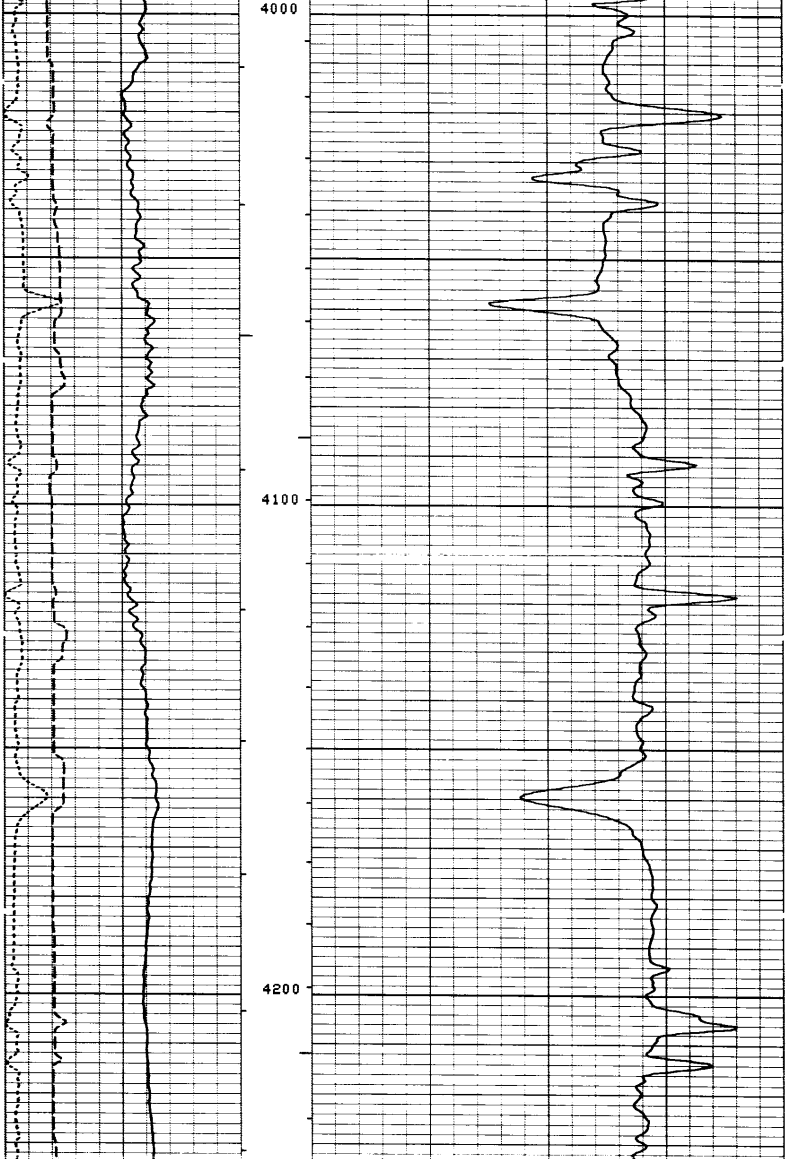


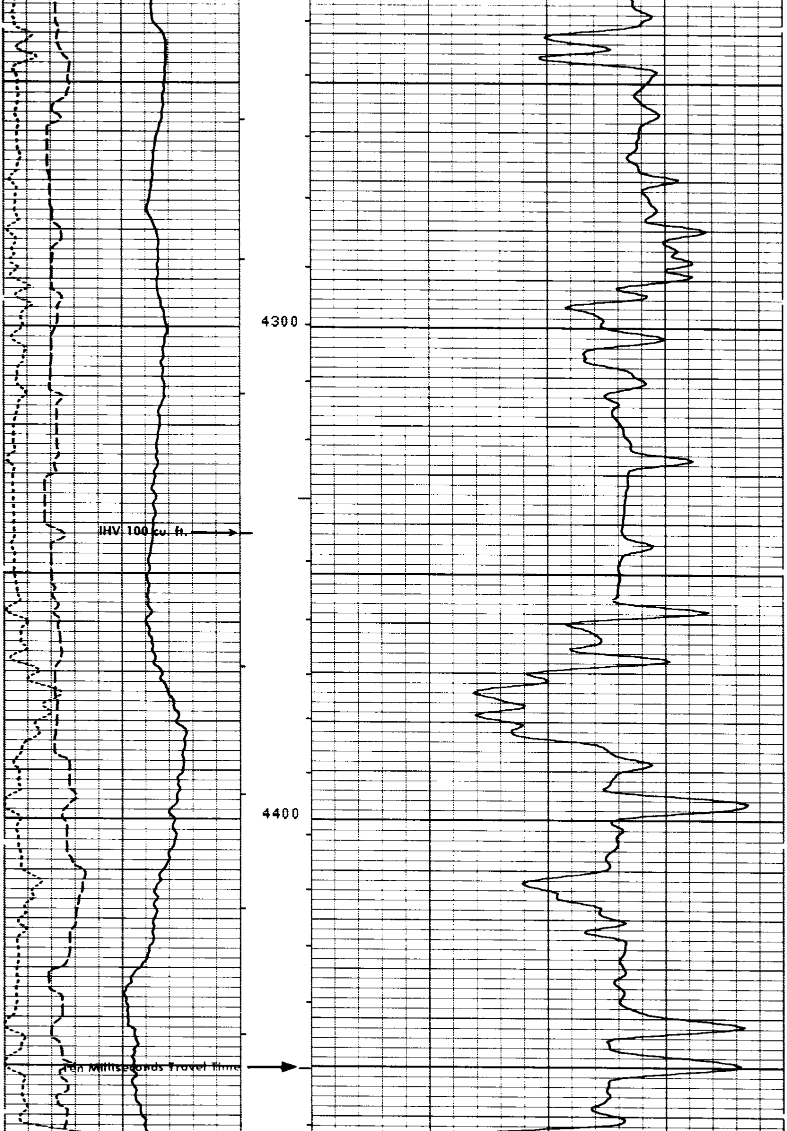


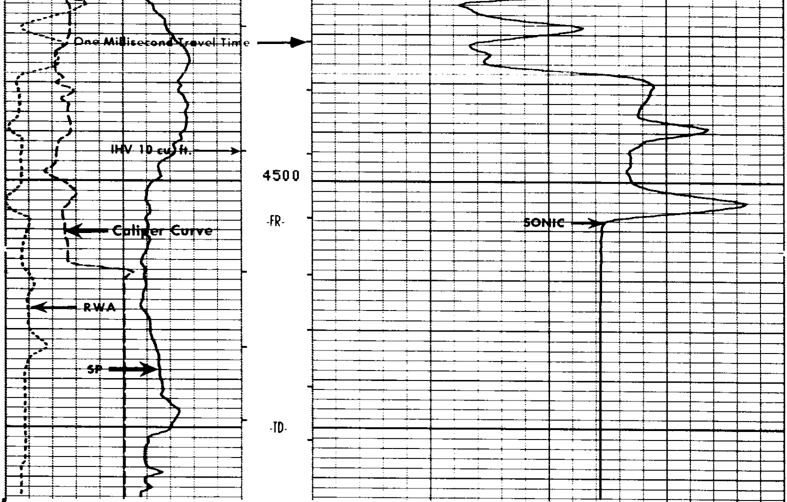












FILE

12

RWA (OHMM)	0.0	3.000
CALI(IN)	6.000	16.00
SP (MV)	-100.0	0.0
DT (US/F)	150.0	50.00

SENSOR MEASURE POINT TO TENSION REFERENCE POINT

AMPL	41.4	FEET	DT	38.9	FEET
SRAT	38.9	FEET	CBL	41.4	FEET
CALI	29.3	FEET	TT	41.4	FEET
SFL	3.9	FEET	ILD	6.9	FEET
SP	.0	FEET	ILM	3.3	FEET
TENS	.0	FEET	SPAR	.0	FEET
NOIS	33.2	FEET			

PARAMETERS

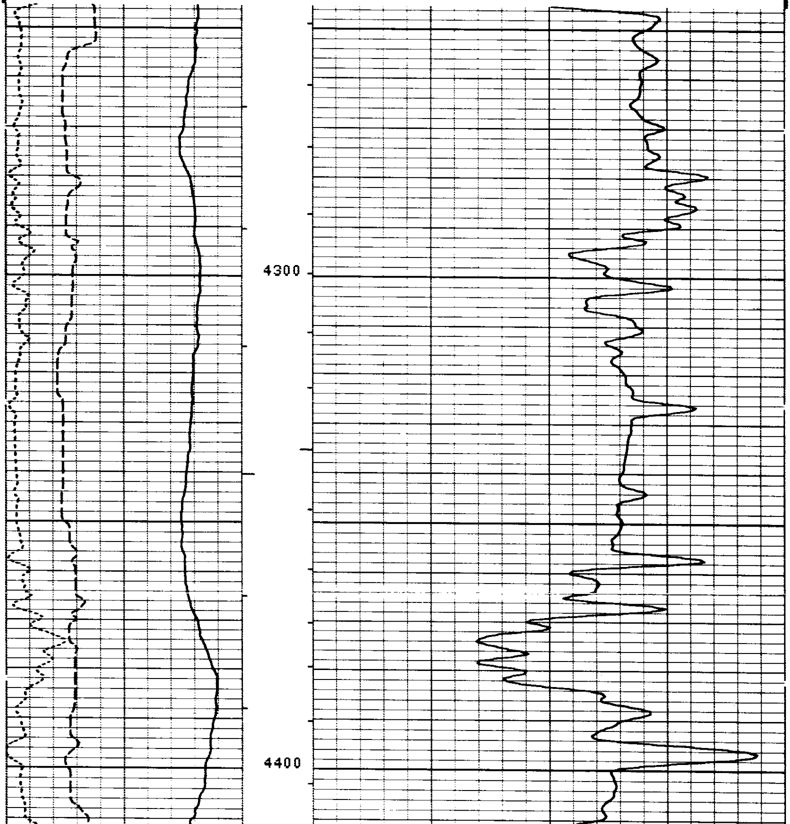
NAME	VALUE	UNIT	NAME	VALUE	UNIT
CDTS	140.0		BS	7.875	IN
DTF	189.0	US/F	DTM	55.60	US/F
SBR	1.000	OHMM	DSEC	2.900	MMHO
FPHI	SPHI		MSEC	0.0	MMHO
DO	0.0		BHS	OPEN	

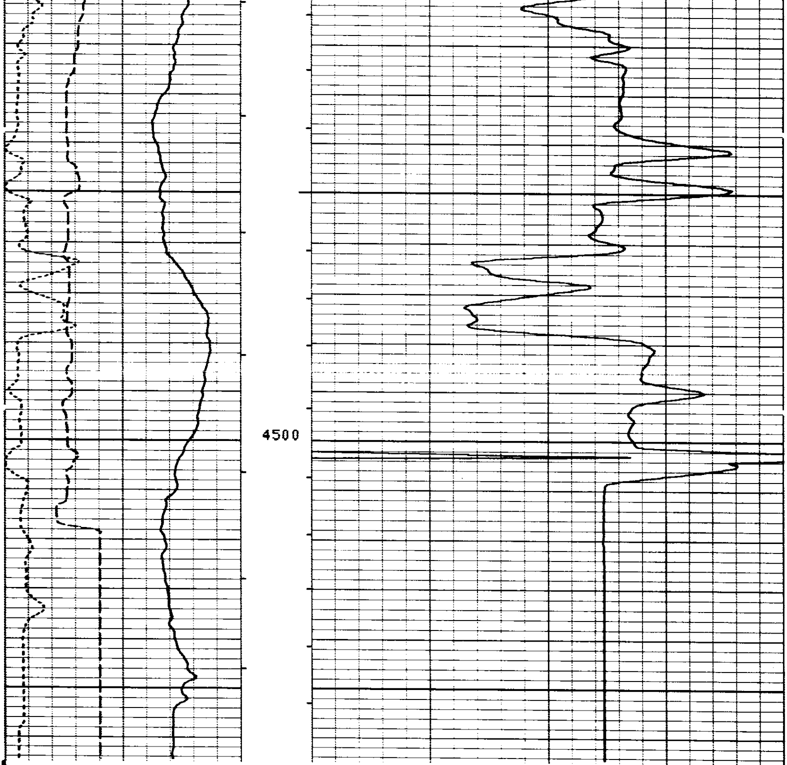
RWA (OHMM)
0.0 3.000
CALI(IN)
6.000 16.00
SP (MV)
-100.0 0.0

DT (US/F)
150.0 50.00

FILE
11

REPEAT SECTION





FILE

11

RWA (OHMM)
0.0 3.000
CALI(IN)
6.000 16.00
SP (MV)
-100.0 0.0

DT (US/F)
150.0 50.00

SENSOR MEASURE POINT TO TENSION REFERENCE POINT

AMPL	41.4	FEET	DT	38.9	FEET
SRAT	38.9	FEET	CBL	41.4	FEET
CALI	29.3	FEET	TT	41.4	FEET
SFL	3.9	FEET	ILD	6.9	FEET
SP	.0	FEET	ILM	3.3	FEET
TENS	.0	FEET	SPAR	.0	FEET
NOIS	33.2	FEET			

PARAMETERS

```
        NAME  VALUE    UNIT                        NAME  VALUE    UNIT

        CDTS  140.0                                BS    7.875    IN
        DTF   189.0    US/F                        DTM   55.60    US/F
        SBR   1.000    OHMM                        DSEC  2.900    MMHO
        FPHI  SPHI                                 MSEC  0.0      MMHO
        DO    0.0                                  BHS   OPEN
```

```
           BEFORE SURVEY CALIBRATION SUMMARY

  PERFORMED:      81/09/28
  PROGRAM FILE: ISN    (VERSION    20.2    81/ 1/30)

DITD                 ELECTRONICS CALIBRATION SUMMARY

           MEASURED                        CALIBRATED
         ZERO     PLUS                  ZERO        PLUS         UNITS
   ILD    0.1    547.5                   0.0       493.8          MMHO
   ILM    0.0    519.9                   0.0       498.0          MMHO
   SFL   -1.9    519.5                   0.0       500.0          MMHO

ILD  SONDE ERROR CORRECTION :          2.9    MMHO
ILM  SONDE ERROR CORRECTION :          0.0    MMHO

MCDB                 CALIPER CALIBRATION SUMMARY

           MEASURED                        CALIBRATED
         SMALL   LARGE                  SMALL      LARGE         UNITS
  CALI    6.8     9.6                    8.0       12.0           IN
                   FILE
```