Watzek 22-19-66

Schlumberger

DUAL INDUCTION-SFL 5"

CSU Field Log

COMPANY: DIAMOND SHAMROCK CORPORATION

WELL: WATZEK #22-19

FIELD: WILDCAT
COUNTY: CLATSOP
STATE: OREGON

LOCATION: 1945' SOUTH; 2151' EAST
OF NORTHWEST CORNER
SEC: 19 TWP: 6N RGE: 6W

PERMANENT DATUM: GL
ELEV. OF PERM. DATUM: 636.0 '
LOG MEASURED FROM: KB
9.0 ' ABOVE PERM. DATUM
DRLG. MEASURED FROM: KB

ELEVATIONS-
KB: 645.0 '
DF:
GL: 636.0 '

DATE: 3 MAR 83
RUN NO: 1

DEPTH-DRILLER: 5195.0 '
DEPTH-LOGGER: 5188.0 '
BTM. LOG INTERVAL: 5182.0 '
TOP LOG INTERVAL: 1028.0 '

CASING-DRILLER: 1028 '
CASING-LOGGER: 1028 '
CASING: 9 5/8"

BIT SIZE: 8 3/4"

OTHER SERVICES-
BHC
FDC/CNL/GR
HDT
CIS

PROGRAM
TAPE NO:
22.4
SERVICE
ORDER NO:
383582

TYPE FLUID IN HOLE: LOW SOLIDS NON DISPERSED
DENSITY: 10.7 LB/G
VISCOSITY: 55.0 S
PH: 10.1
FLUID LOSS: 5.2 C3
SOURCE OF SAMPLE: FLOWLINE
RM: 1.280 OHMM AT 74.0 DEGF
RMF: 2.190 OHMM AT 52.0 DEGF
RMC: 1.680 OHMM AT 52.0 DEGF
SOURCE RMF/RMC: MEAS/MEAS
RM AT BHT: 0.871 OHMM AT 112. DEGF
RMF AT BHT: 1.085 OHMM AT 112. DEGF
RMC AT BHT: 0.832 OHMM AT 112. DEGF

TIME CIRC. STOPPED: 0000 3/3
TIME LOGGER ON BTM.: 0530 3/3

MAX. REC. TEMP: 112.0 DEGF

LOGGING UNIT NO: 8126
LOGGING UNIT LOC: SACRAMENTO
RECORDED BY: BURNISON
WITNESSED BY: WILSON

REMARKS:

EQUIPMENT NUMBERS-

DIS-EA 457 DIC-DA 342 MCD-DA 305 SLC-FA 1261
SLS-RC 346 IEM-BD 232 SLM-DA 428

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.

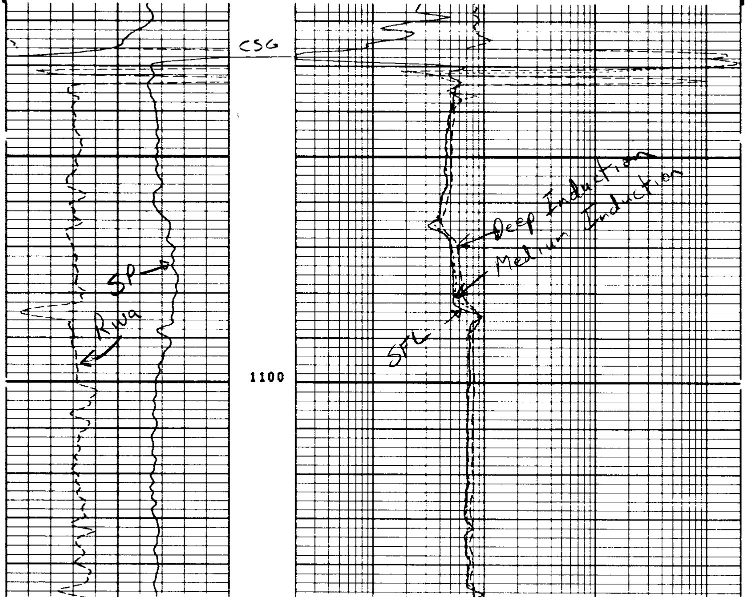
FILE

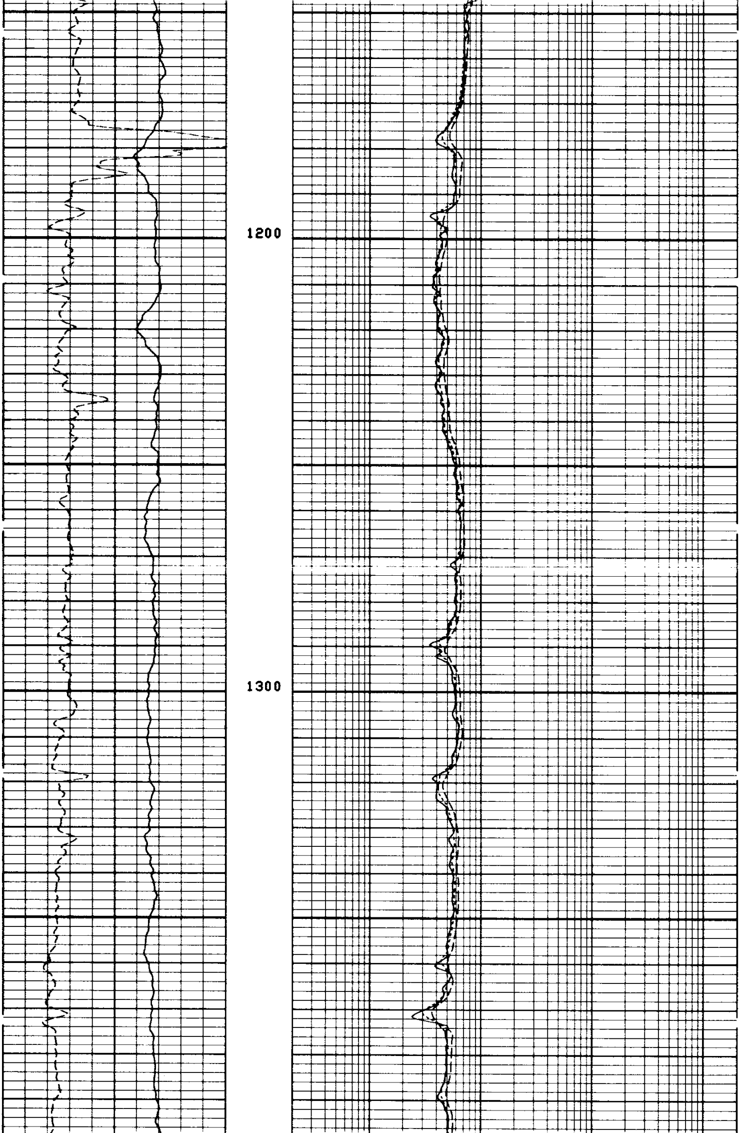
3

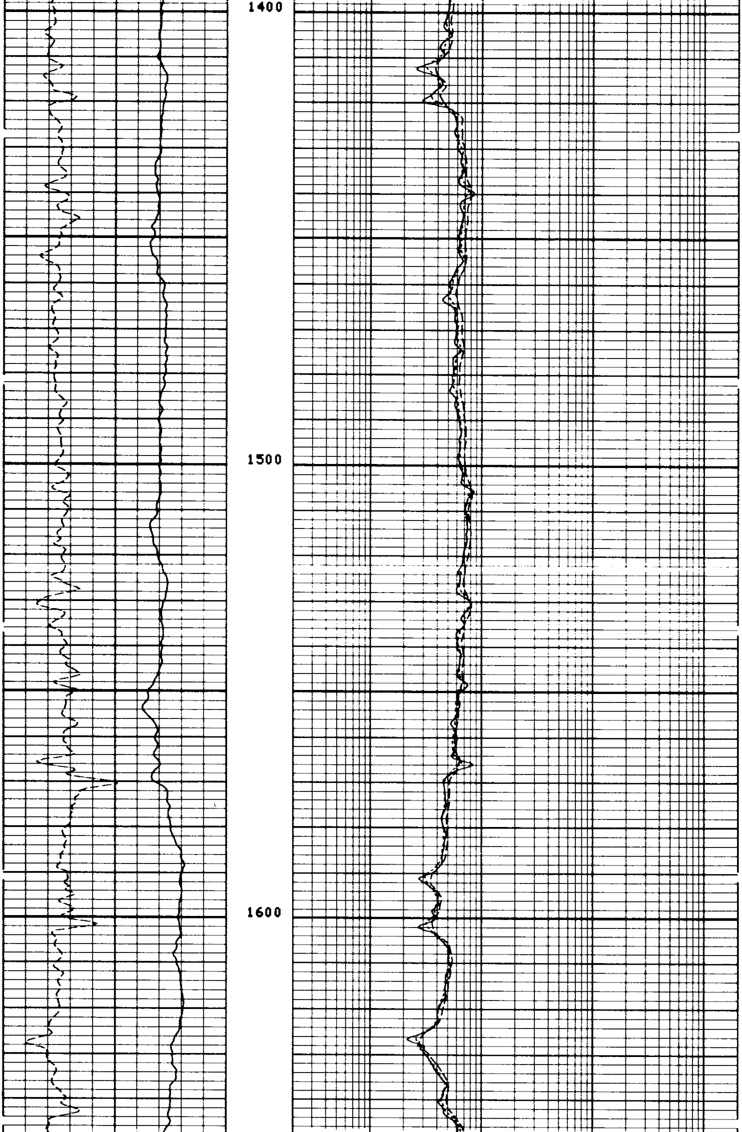
Curve	Left	Right
RWA (OHMM)	0.0	3.0000
SP (MV)	-100.0	0.0
ILD (OHMM)	0.2000	2000.0
ILM (OHMM)	0.2000	2000.0
SFLU(OHMM)	0.2000	2000.0

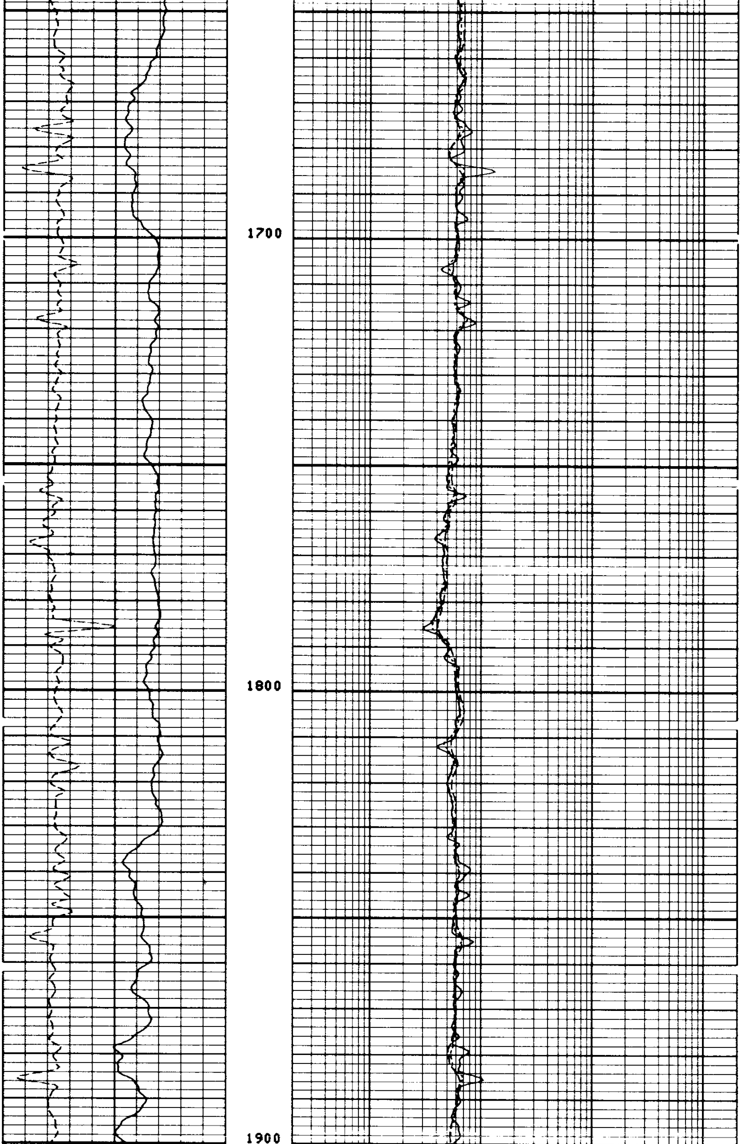
FILE

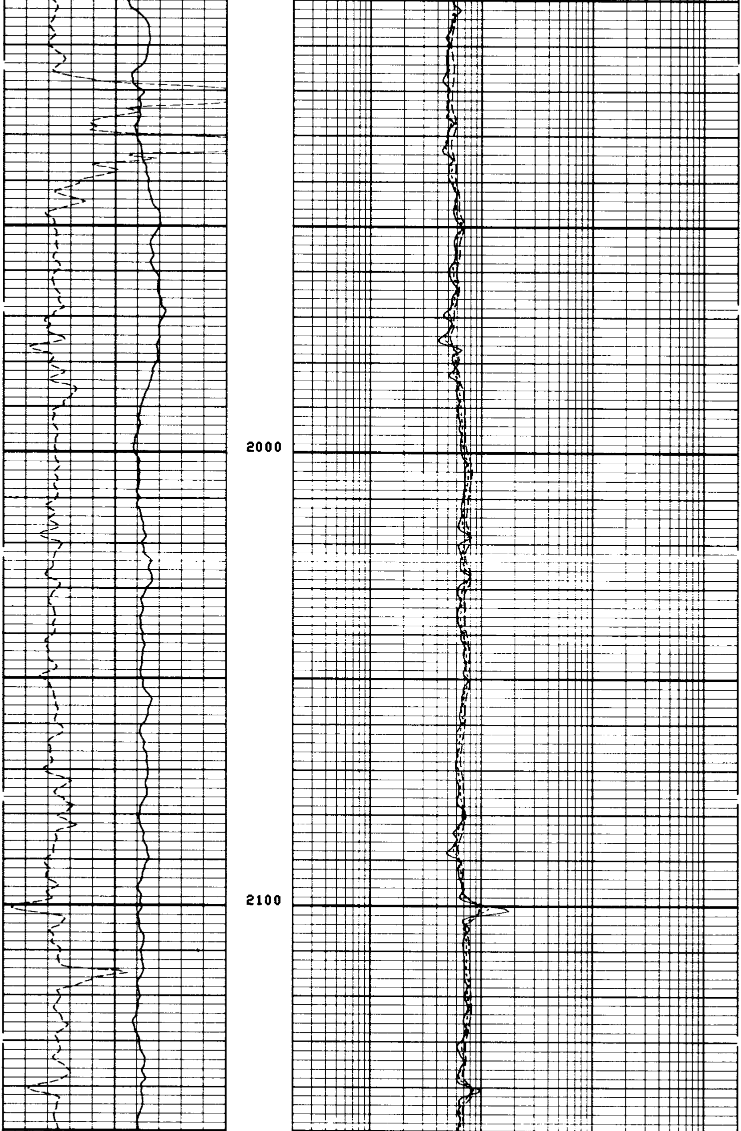
3

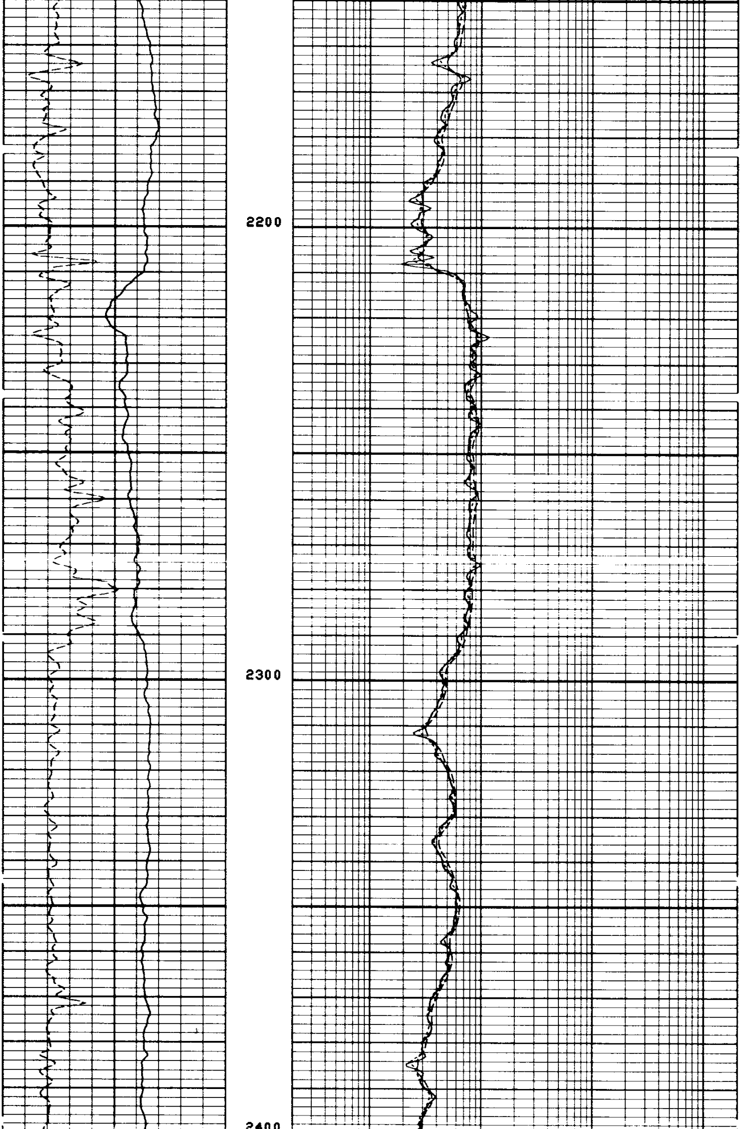


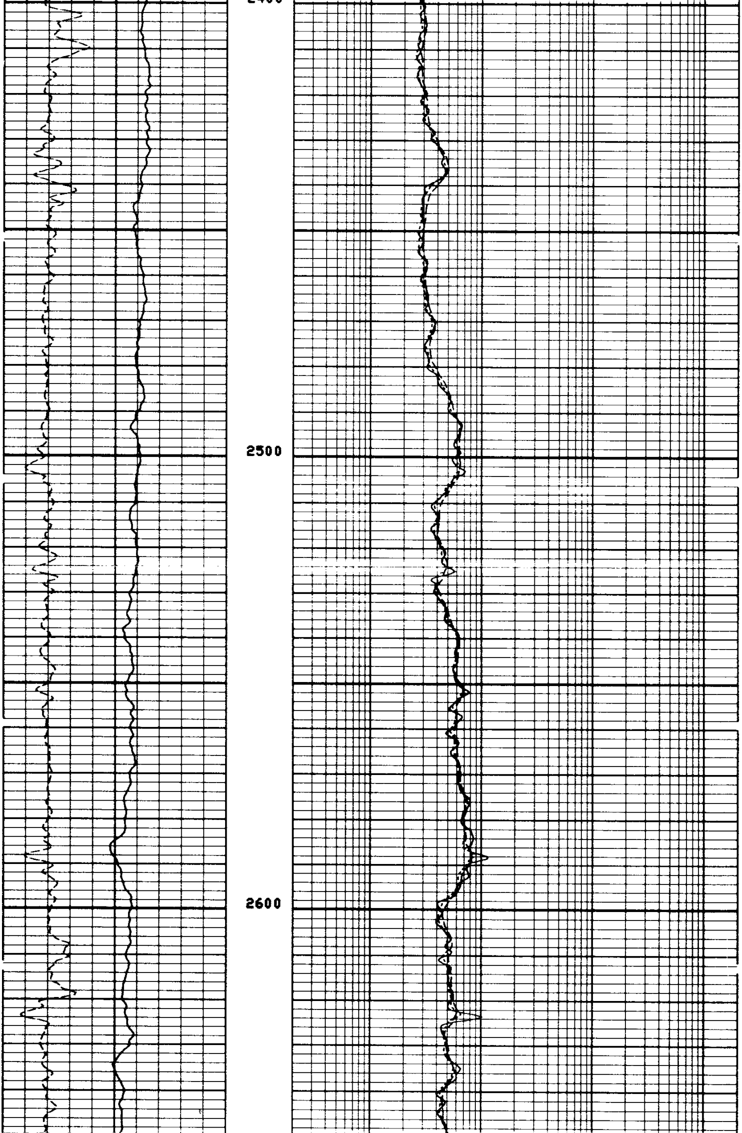


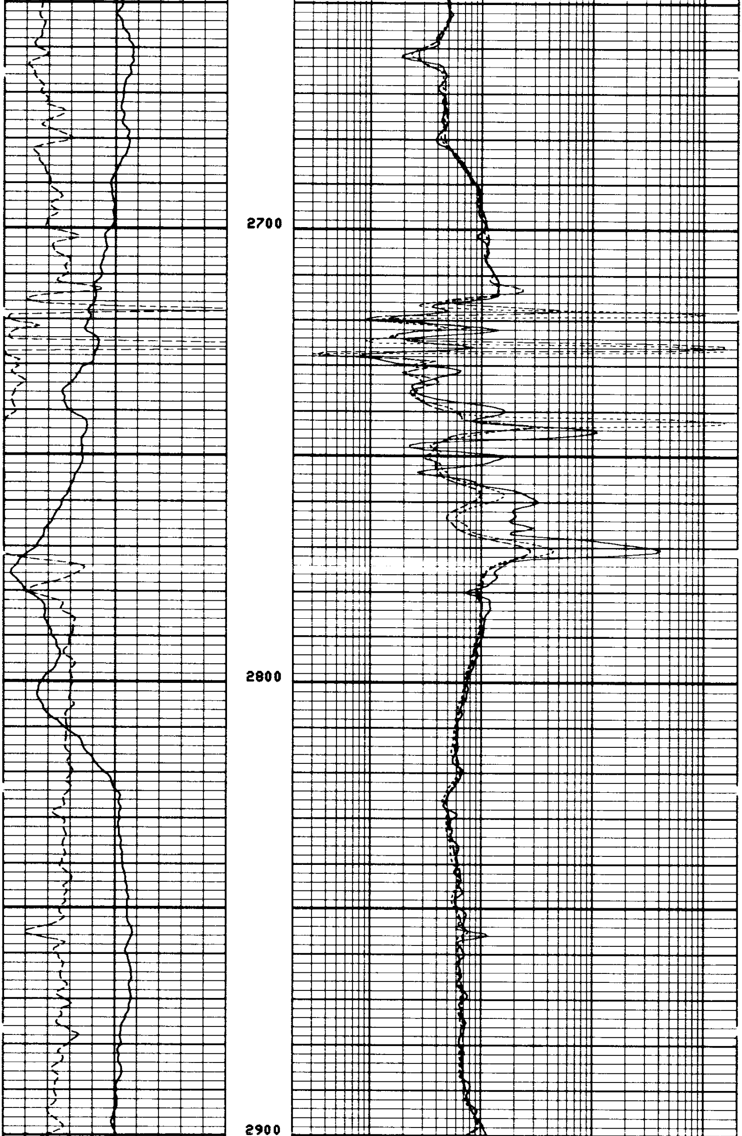


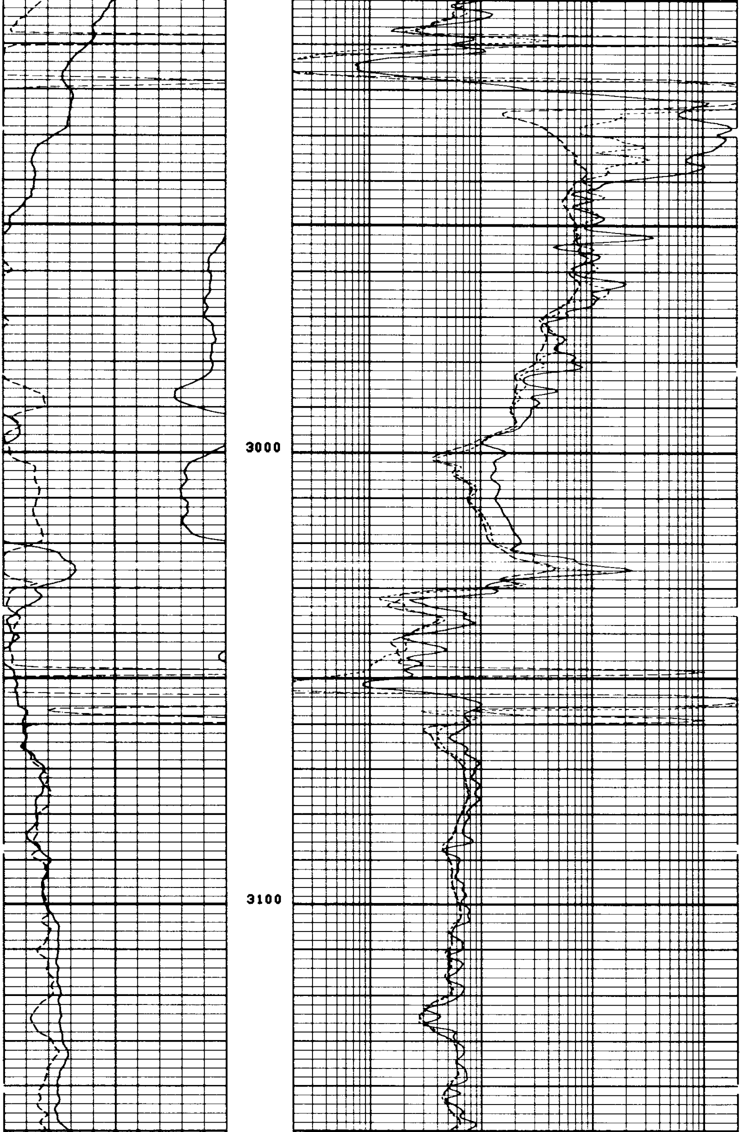


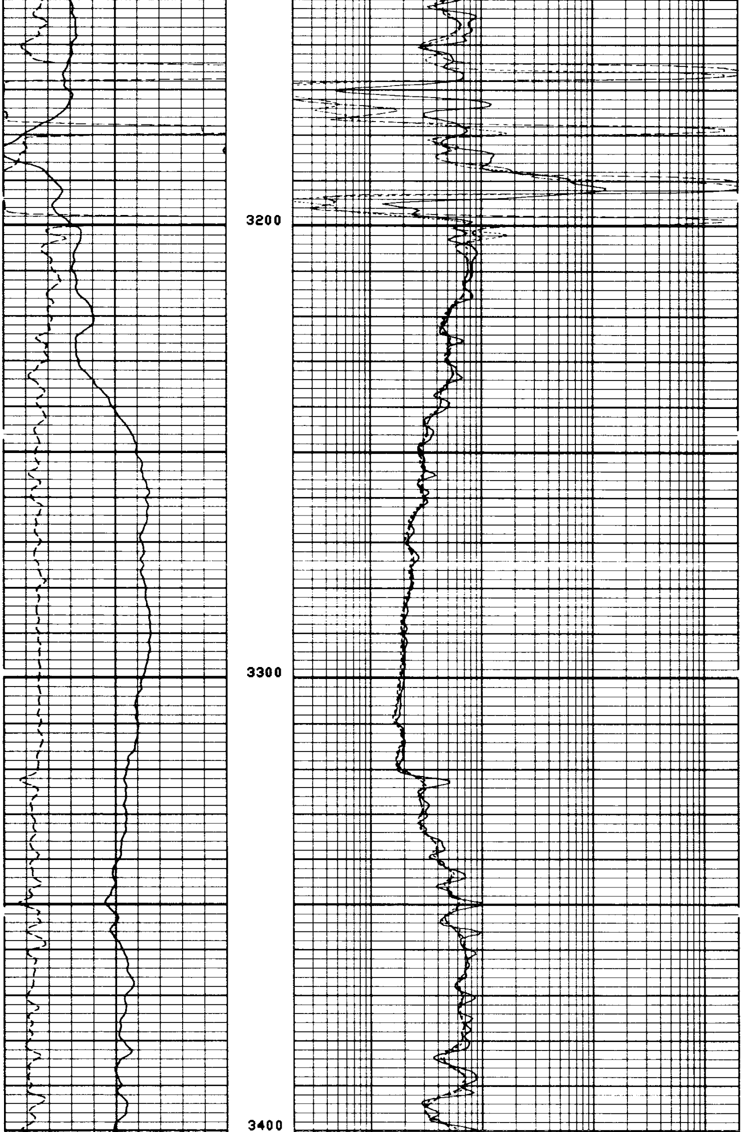


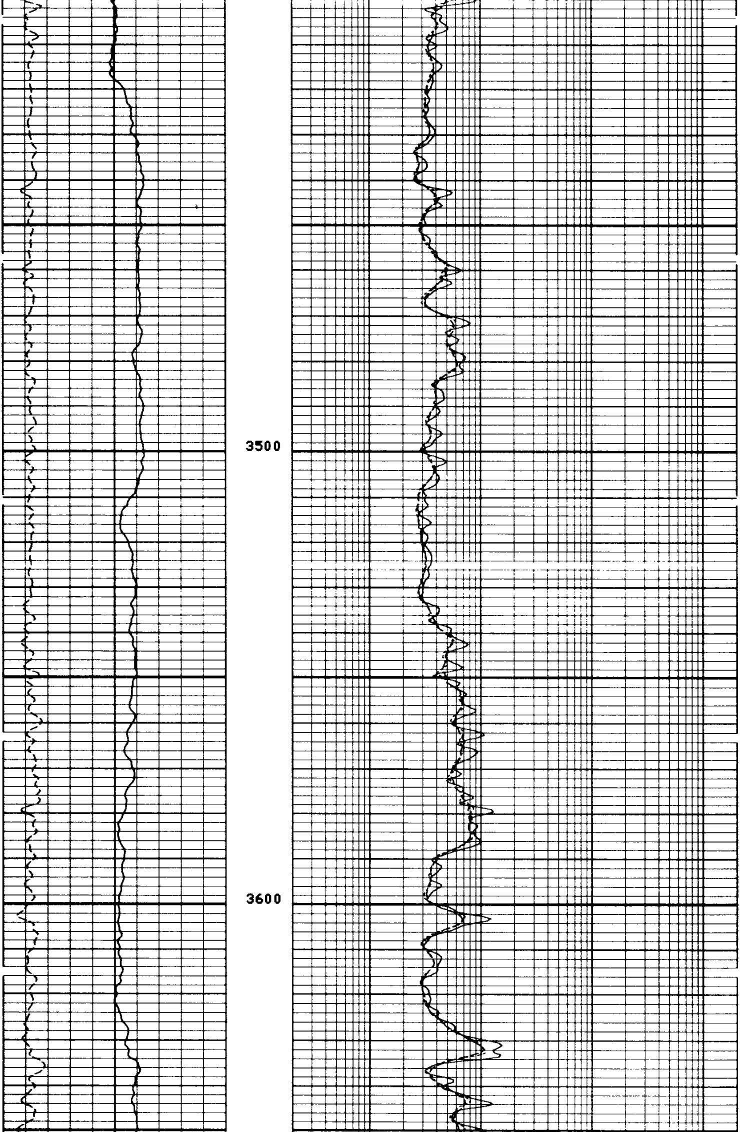


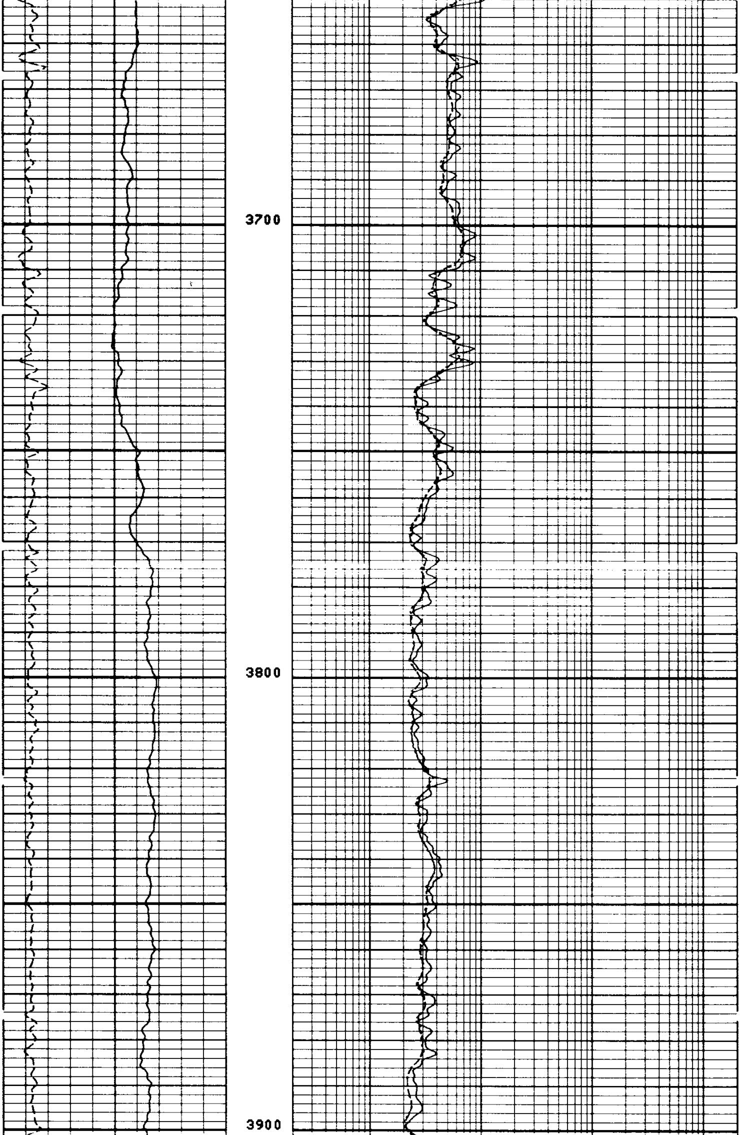


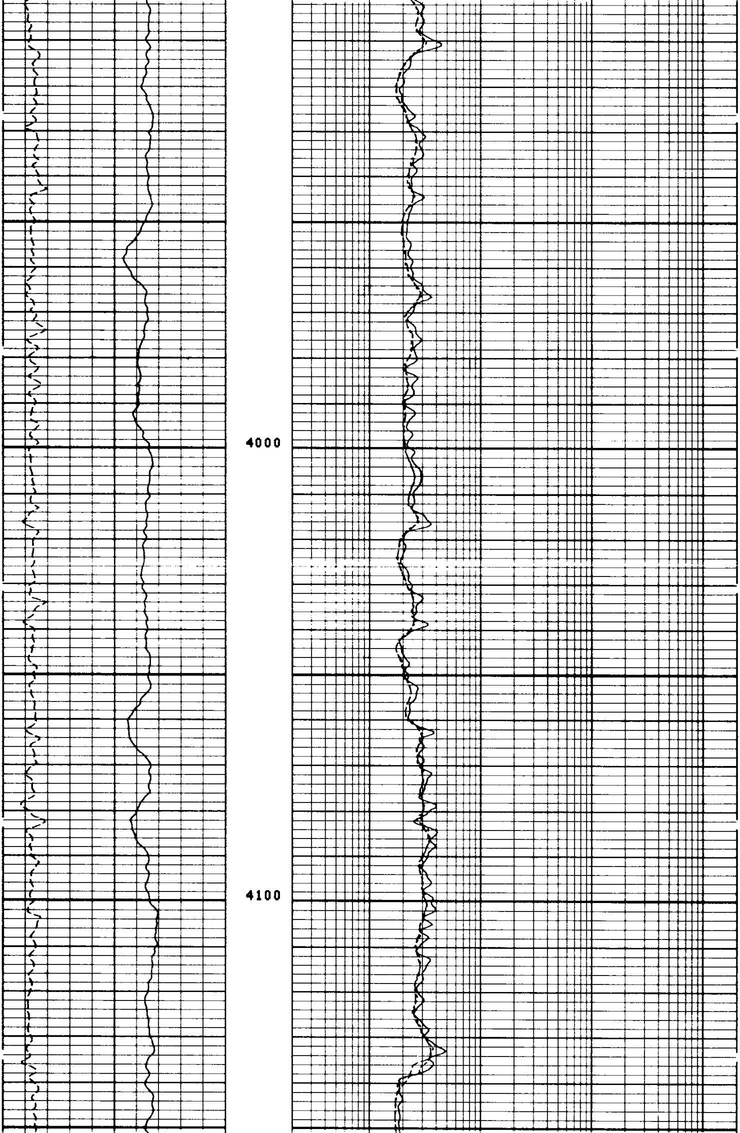


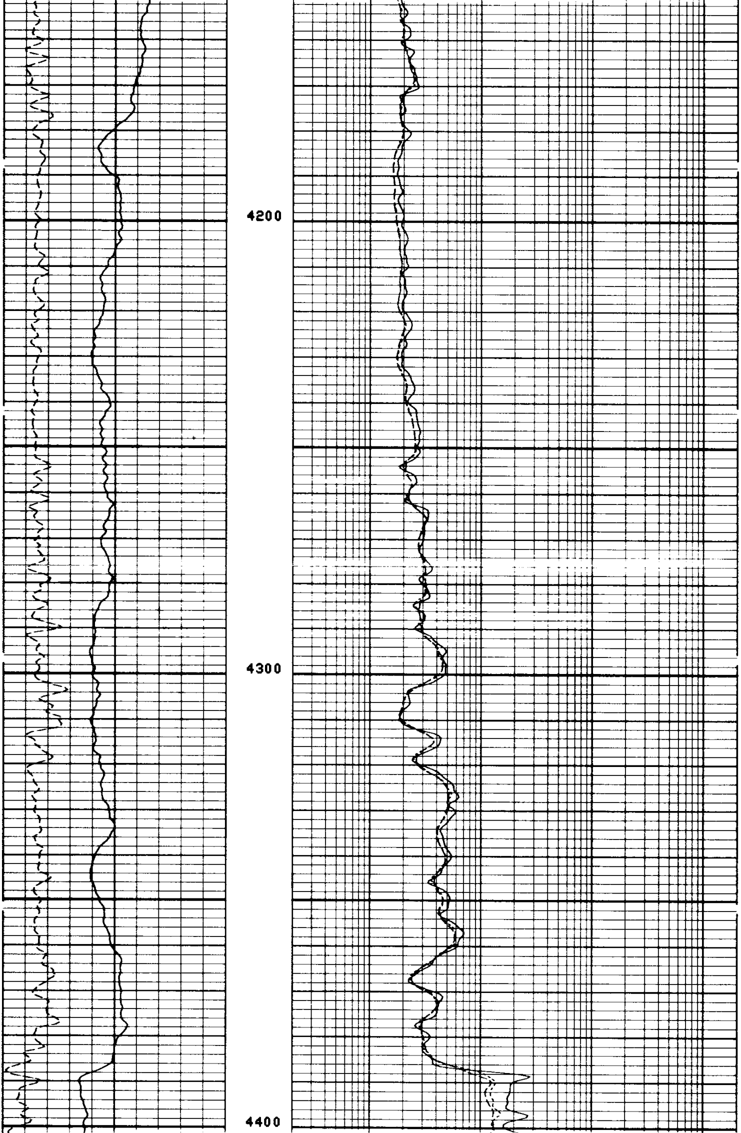


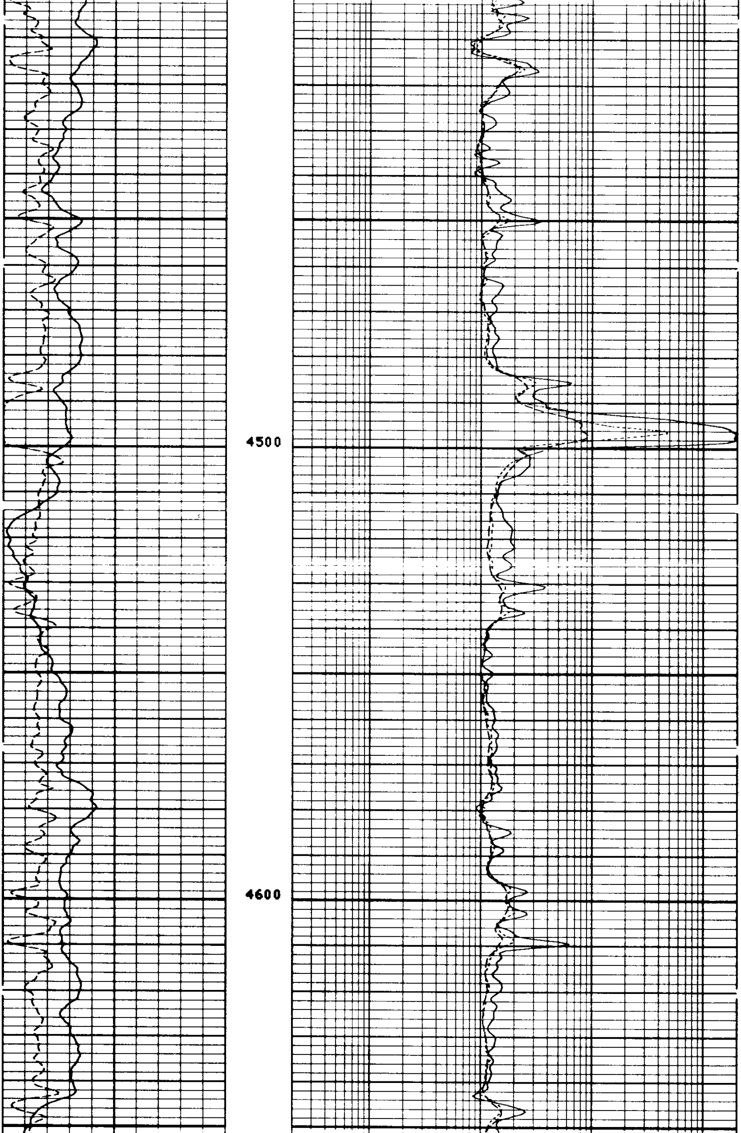


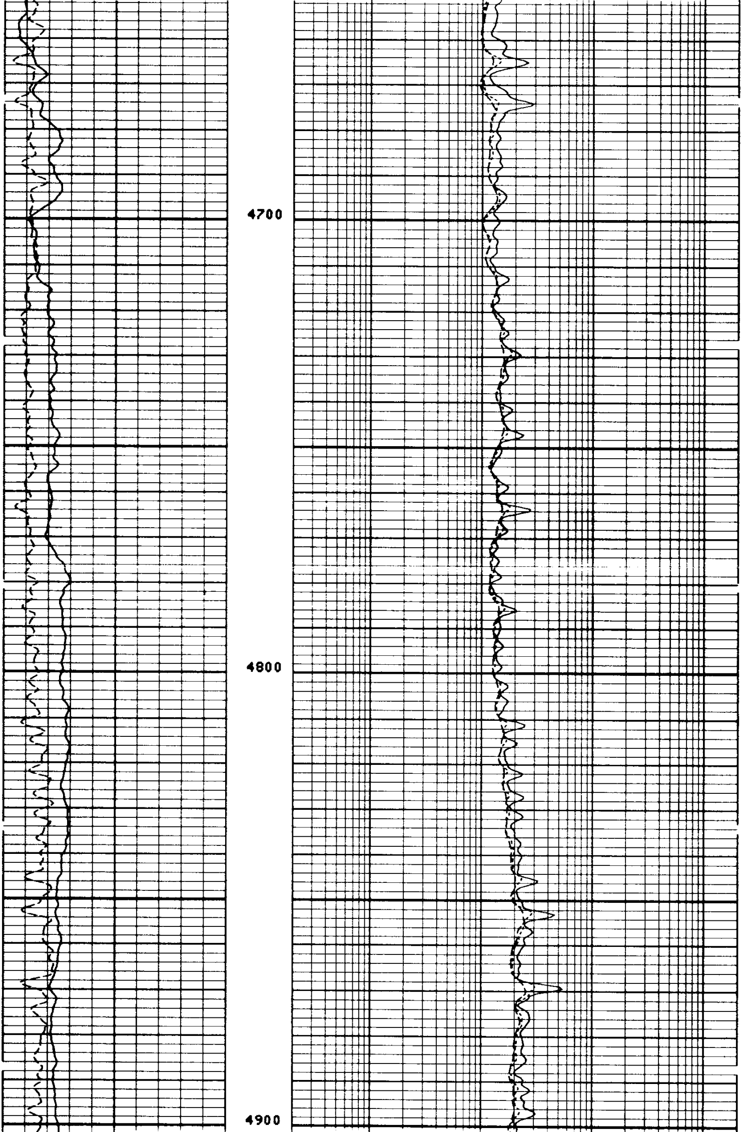


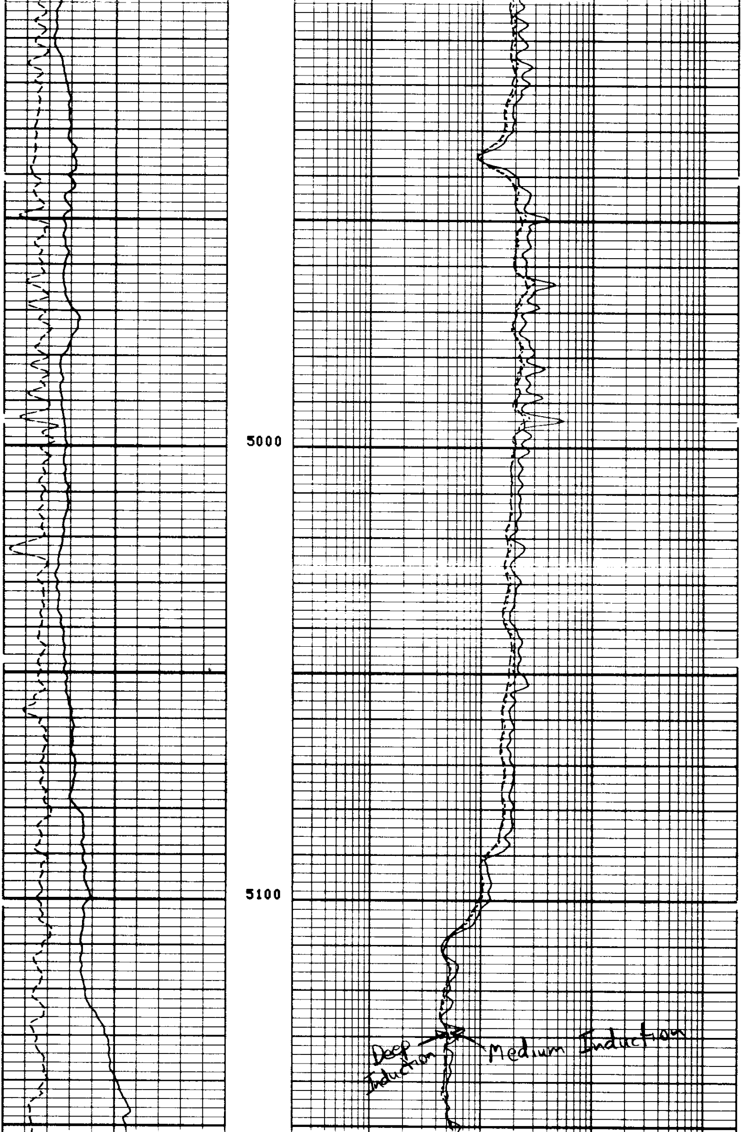


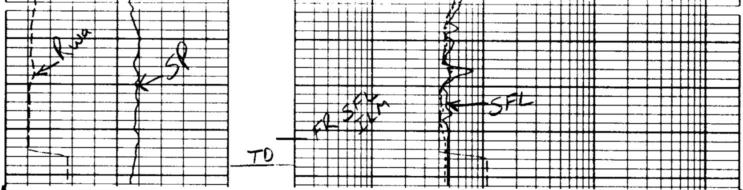












FILE

3

RWA (OHMM)		ILD (OHMM)	
0.0	3.0000	0.2000	2000.0
SP (MV)		ILM (OHMM)	
-100.0	0.0	0.2000	2000.0
		SFLU(OHMM)	
		0.2000	2000.0

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			

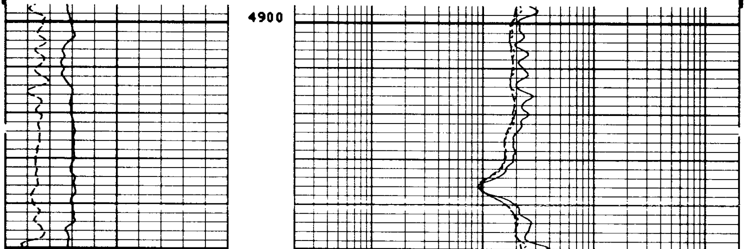
PARAMETERS

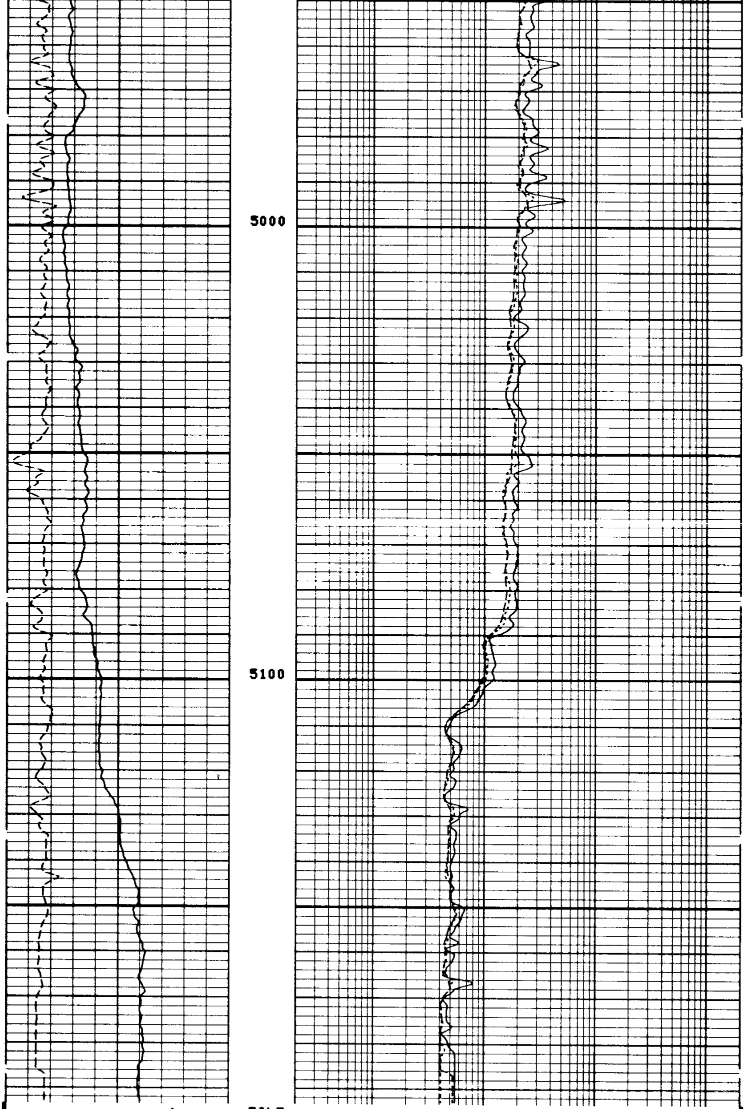
NAME	VALUE	UNIT	NAME	VALUE	UNIT
CDTS	100.000		BS	8.75000	IN
DTF	189.000	US/F	DTM	56.0000	US/F
SBR	1.00000	OHMM	DSEC	11.1000	MMHO
FPHI	SPHI		MSEC	9.00000	MMHO
FNUM	0.620000		FEXP	2.15000	
DO	0.0	F	BHS	OPEN	

RWA (OHMM)		ILD (OHMM)	
0.0	3.0000	0.2000	2000.0
SP (MV)		ILM (OHMM)	
-100.0	0.0	0.2000	2000.0
		SFLU(OHMM)	
		0.2000	2000.0

↓ FILE Repeat Section ↓

2





↑

FILE
2

Repeat Section ↑

```
                                         ILD (OHMM)
                              0.2000                                  2000.0
     RWA (OHMM)                          ILM (OHMM)
0.0             3.0000        0.2000                                  2000.0
     SP   (MV   )                        SFLU(OHMM)
-100.0             0.0        0.2000                                  2000.0
```

```
            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 100.000                              BS    8.75000   IN
        DTF  189.000    US/F                      DTM  56.0000    US/F
        SBR  1.00000    OHMM                      DSEC 11.1000    MMHO
        FPHI SPHI                                 MSEC 9.00000    MMHO
        FNUM 0.620000                             FEXP 2.15000
        DO   0.0        F                         BHS  OPEN
```

```
              AFTER SURVEY TOOL CHECK SUMMARY


   PERFORMED:     83/03/03
   PROGRAM FILE: ISN    (VERSION    22.4    82/09/01)


 DITO                      TOOL  CHECK

                   ZERO                         PLUS
            BEFORE       AFTER          BEFORE      AFTER      UNITS
    ILD       0.0         0.0           495.2       489.1      MMHO
    ILM       0.0        -0.0           503.0       497.7      MMHO
    SFL       0.0        -0.1           500.0       497.6      MMHO

 ILD  SONDE ERROR CORRECTION :        11.1 MMHO
 ILM  SONDE ERROR CORRECTION :         9.0 MMHO
                               FILE

                                 7


              BEFORE SURVEY CALIBRATION SUMMARY


   PERFORMED:     83/03/03
   PROGRAM FILE: ISN    (VERSION    22.4    82/09/01)


 DITO                ELECTRONICS CALIBRATION SUMMARY

               MEASURED                        CALIBRATED
             ZERO     PLUS                  ZERO       PLUS          UNITS
    ILD       1.8     550.7                  0.0       495.2          MMHO
    ILM       2.6     527.5                  0.0       503.0          MMHO
    SFL      -2.5     530.5                  0.0       500.0          MMHO

 ILD  SONDE ERROR CORRECTION :        11.1 MMHO
 ILM  SONDE ERROR CORRECTION :         9.0 MMHO

               SHOP SUMMARY


   PERFORMED:     83/03/01
   PROGRAM FILE: SHOP   (VERSION    22.4    82/09/01)


 DITO                ELECTRONICS CALIBRATION SUMMARY

                 TEST LOOP CALIBRATION              TOOL CHECK
             MEASURED          CALIBRATED           CALIBRATED
           ZERO     PLUS      ZERO      PLUS      ZERO       PLUS    UNITS
    ILD    -7.7     542.4      0.0      500.0      0.0       495.5   MMHO
    ILM    -6.5     517.4      0.0      500.0      0.0       503.0   MMHO
 ILD  SONDE ERROR CORRECTION :       11.1 MMHO
 ILM  SONDE ERROR CORRECTION :        9.0 MMHO

                        (IS:457 , IC:342 )
```