Schlumberger

5" DUAL INDUCTION

CSU

COMPANY: REICHHOLD ENERGY CORPORATION

WELL: COLUMBIA COUNTY 23-4

FIELD: MIST
COUNTY: COLUMBIA
STATE: OREGON

LOCATION: 1666' NORTH & 436' WEST
OF SOUTH 1/4 CORNER
SEC: 4 TWP: 6N RGE: 5W

PERMANENT DATUM: GL
ELEV. OF PERM. DATUM: 745.1 F
LOG MEASURED FROM: KB
11.4 F ABOVE PERM. DATUM
DRLG. MEASURED FROM: KB

ELEVATIONS-
KB: 756.5 F
DF:
GL: 745.1 F

OTHER SERVICES-
SONIC
FDC/CNL/GR
HDT

PROGRAM
TAPE NO:
26.2
SERVICE
ORDER NO:
432179

DATE: 29 NOV 84
RUN NO: 1

RECEIVED - PTLD
JAN 18 1985
DEPT. OF GEOLOGY
& MINERAL INDUS

DEPTH-DRILLER: 3024.0 F
DEPTH-LOGGER: 3022.0 F
BTM. LOG INTERVAL: 3016.0 F
TOP LOG INTERVAL: 478.0 F

CASING-DRILLER: 470 F
CASING-LOGGER: 478 F
CASING: 8 5/8"

BIT SIZE: 7 7/8"
DEPTH: 3024 F

TYPE FLUID IN HOLE: GEL/LIGNO.
DENSITY: 9.7 LB/G
VISCOSITY: 40.0 S
PH: 9.0
FLUID LOSS: 5.6 C3
SOURCE OF SAMPLE: FLOWLINE
RM: 3.010 OHMM AT 52.0 DEGF
RMF: 3.350 OHMM AT 42.0 DEGF
RMC: 3.720 OHMM AT 47.0 DEGF
SOURCE RMF/RMC: MEAS/MEAS
RM AT BHT: 1.691 OHMM AT 98.0 DEGF
RMF AT BHT: 1.563 OHMM AT 98.0 DEGF
RMC AT BHT: 1.913 OHMM AT 98.0 DEGF

TIME CIRC. STOPPED: 18:00 11-28
TIME LOGGER ON BTM.: 06:42 11-29

MAX. REC. TEMP: 98.0 DEGF

LOGGING UNIT NO:	8178
LOGGING UNIT LOC:	SACRAMENTO
RECORDED BY:	SUTER
WITNESSED BY:	ALGER/MEYER

REMARKS:

SALINITY : 500 PPM CL-
CENTRALIZATION: RUBBER FINS AND CMEZ
REPEATS DONE AT TOP DUE TO HOLE CONDITIONS

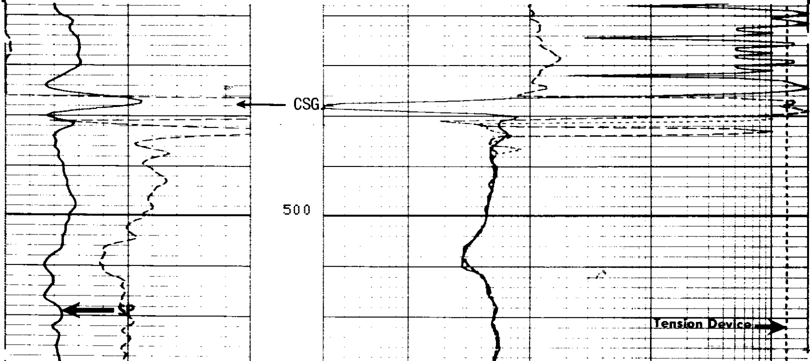
EQUIPMENT NUMBERS-

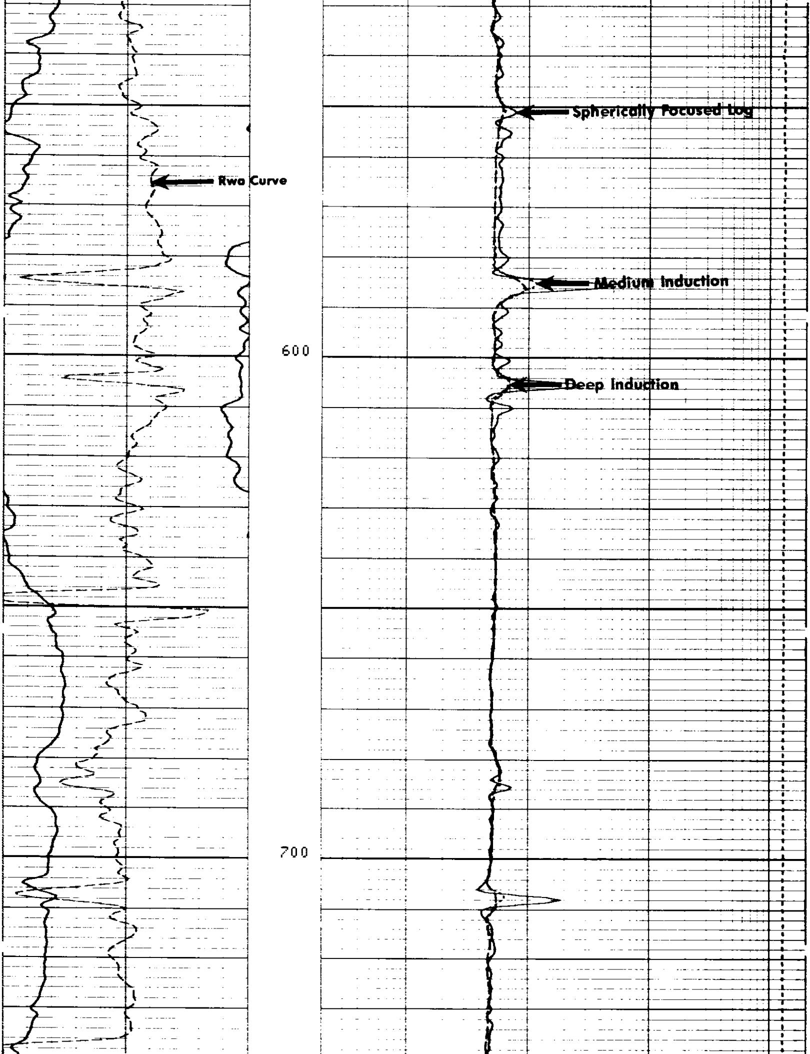
DIS 1422	DIC 1149	IEM 686	MCD 1507
SLS 346	SLC 1589	SLM 383	SOM 1033

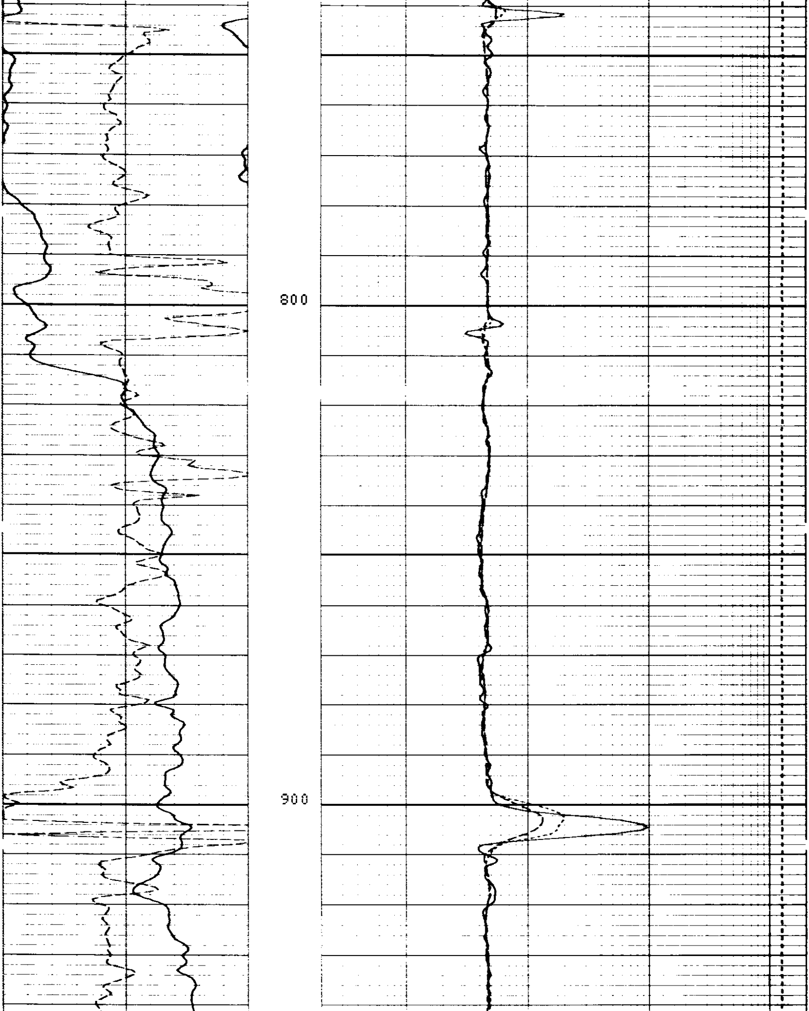
ALL INTERPRETATIONS ARE OPINIONS BASED ON INFERENCES FROM ELECTRICAL OR OTHER MEASUREMENTS AND WE CANNOT, AND DO NOT GUARANTEE THE ACCURACY OR CORRECTNESS OF ANY INTERPRETATIONS, AND WE SHALL NOT, EXCEPT IN THE CASE OF GROSS OR WILLFUL NEGLIGENCE ON OUR PART, BE LIABLE OR RESPONSIBLE FOR ANY LOSS, COSTS,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

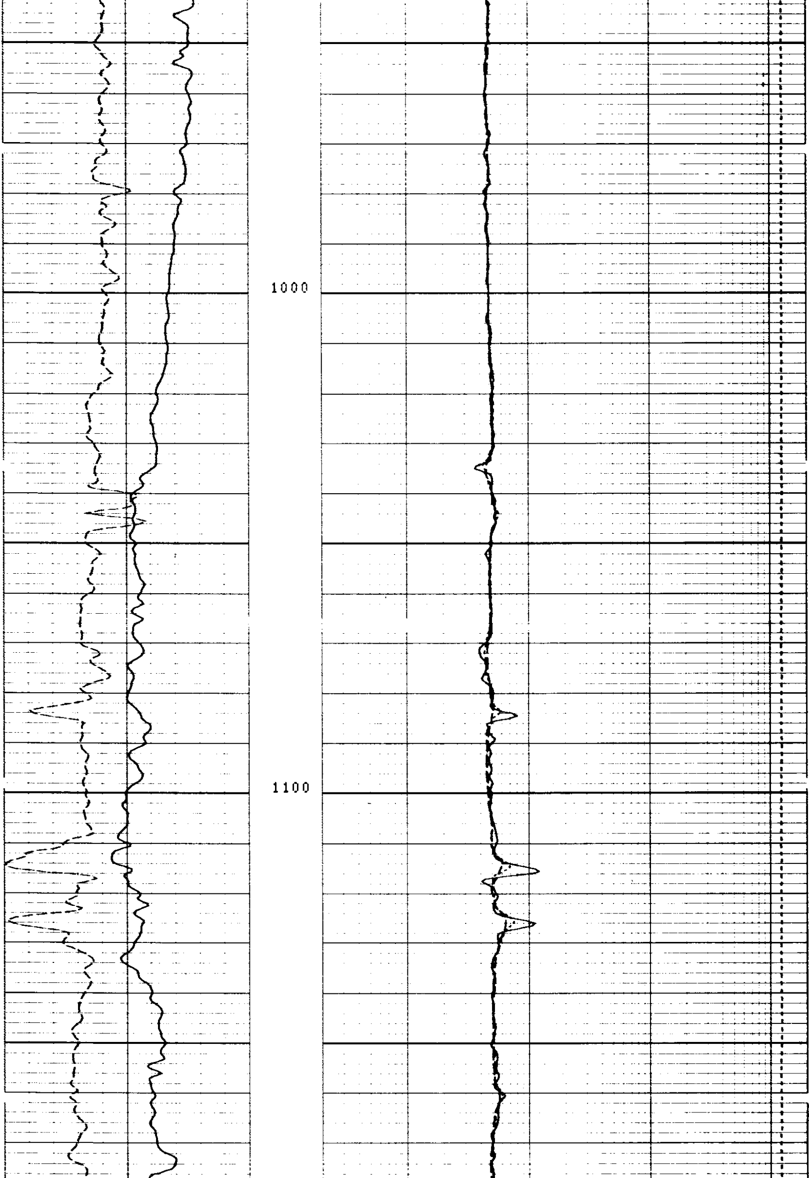
TENS(LB)
10000. 0.0
ILD (OHMM)
.20000 2000.0
RWA (OHMM) ILM (OHMM)
0.0 3.0000 .20000 2000.0
SP (MV) SFLU(OHMM)
-50.00 50.000 .20000 2000.0

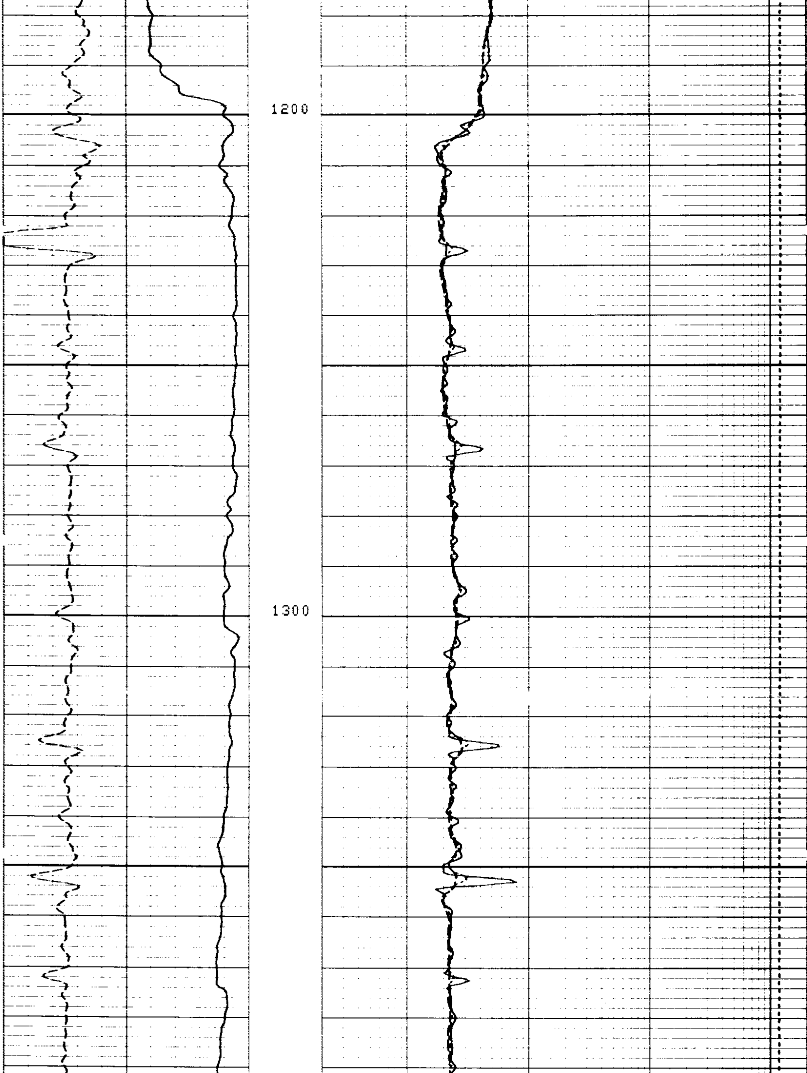
FILE 7 29-NOV-84 09:10
DATA ACQUIRED 29-NOV-84 07:25

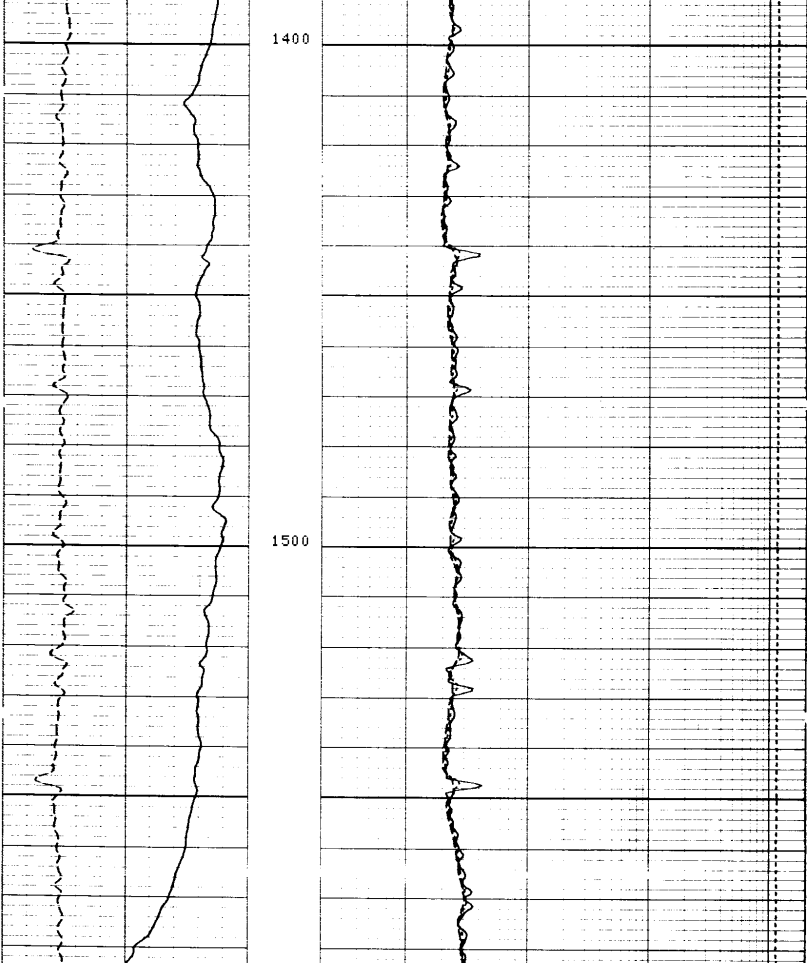


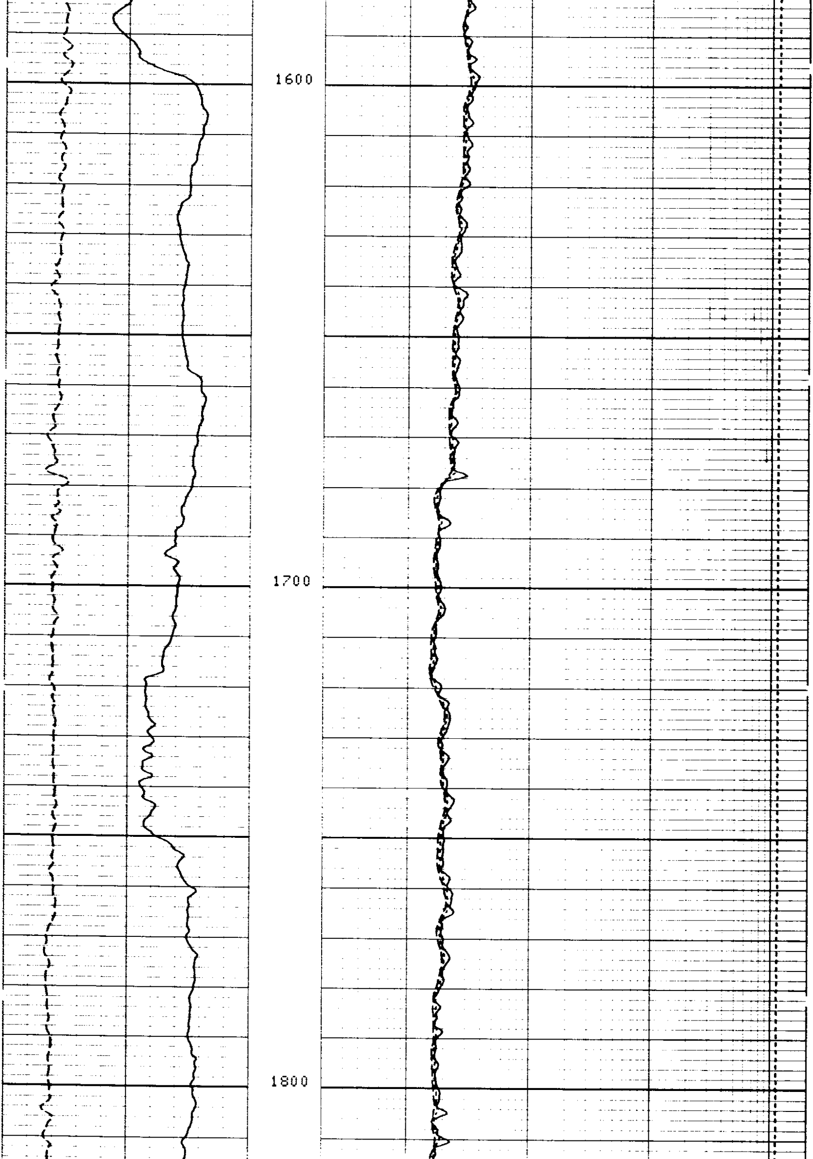


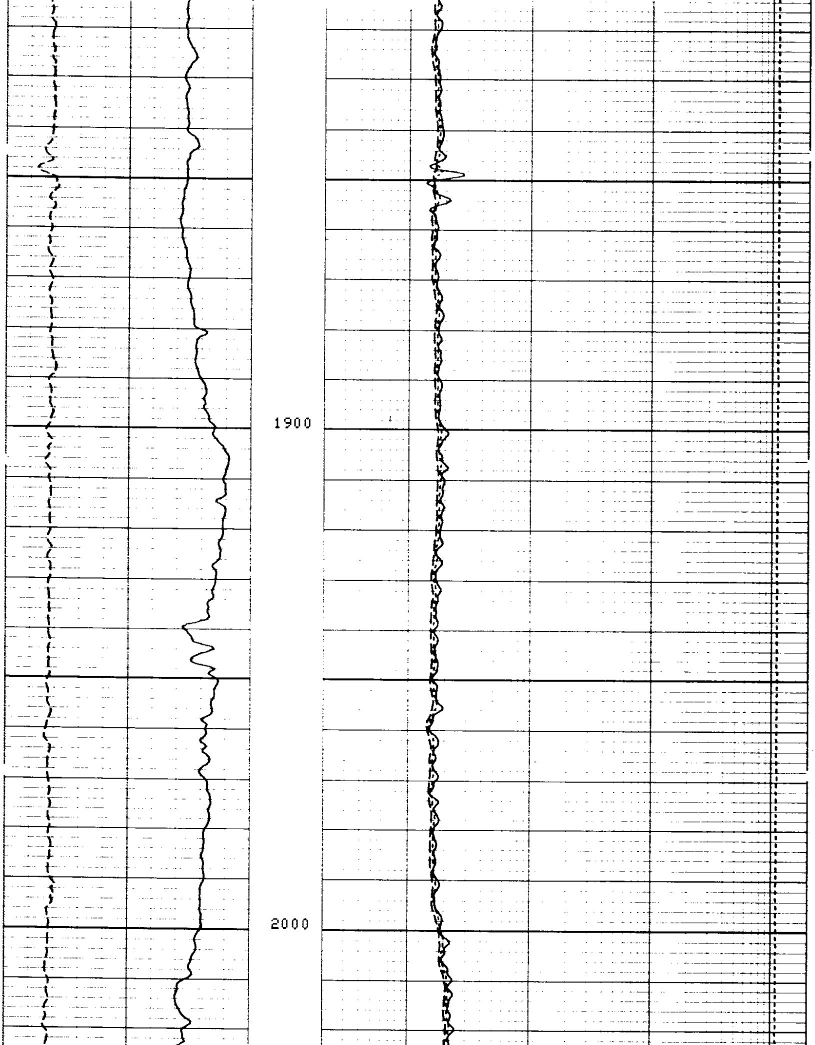


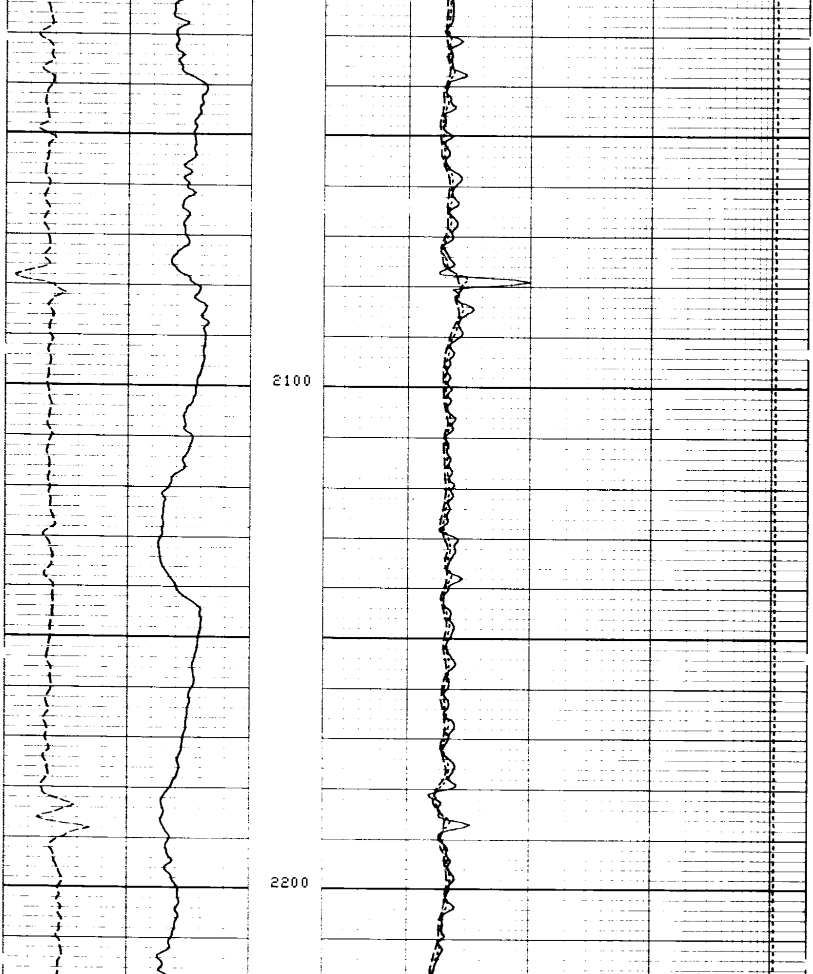


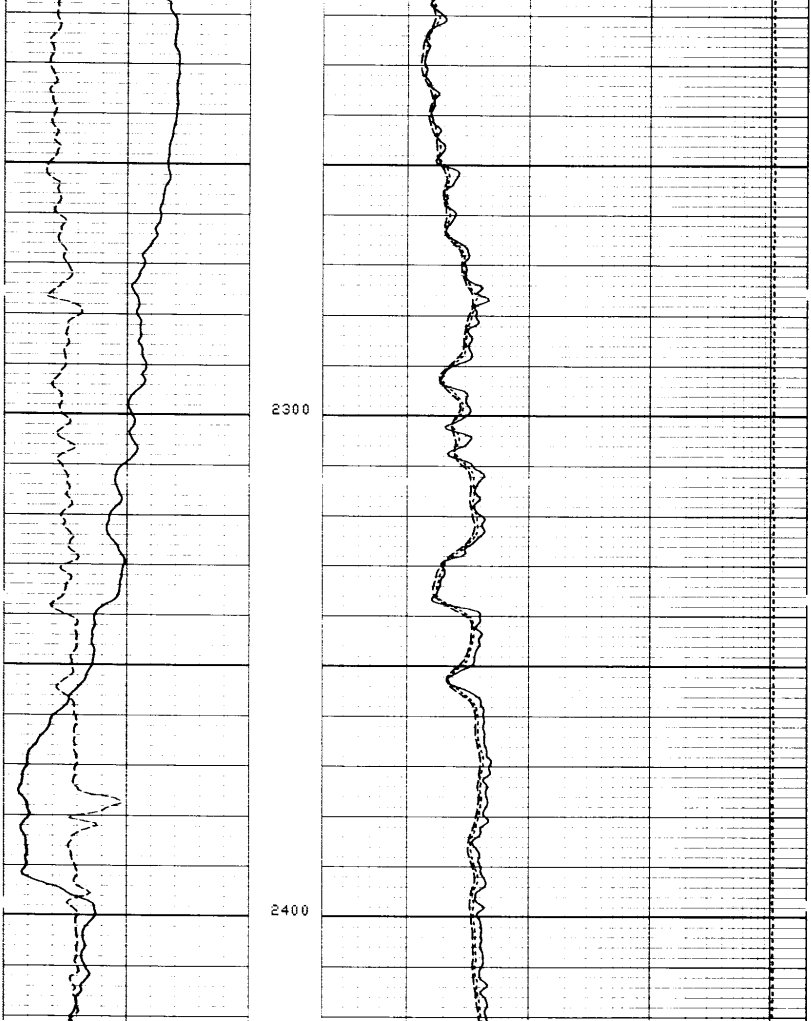


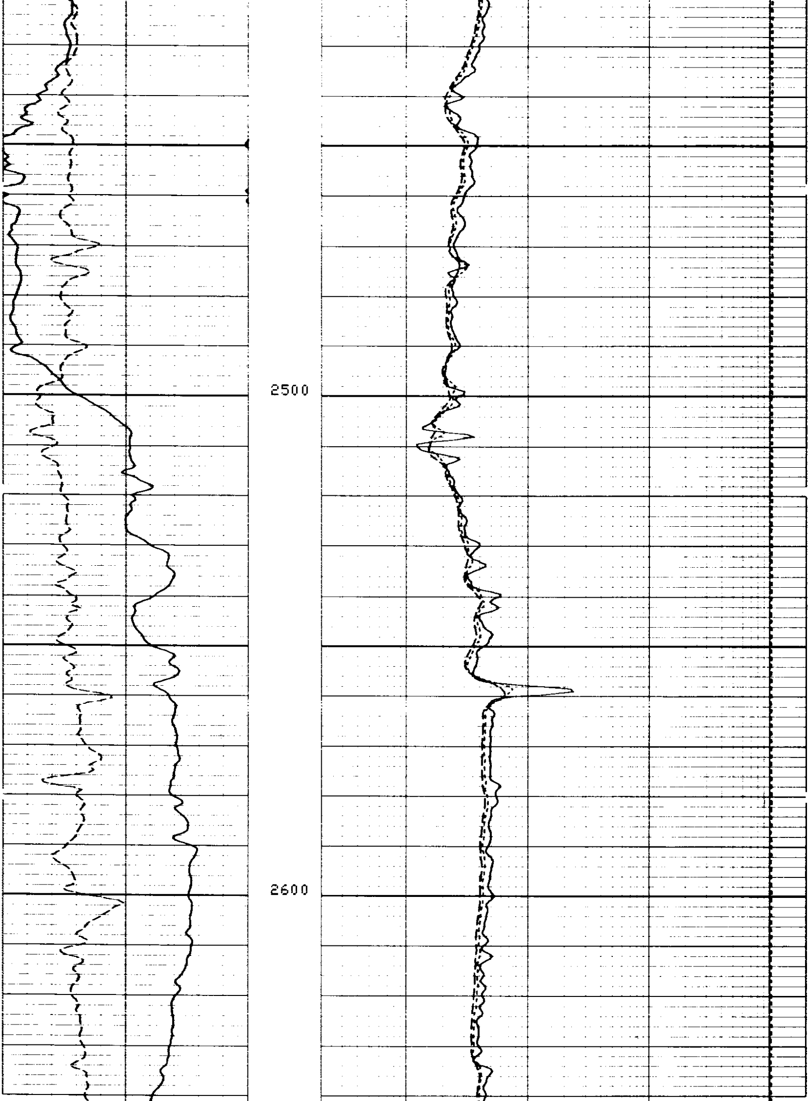


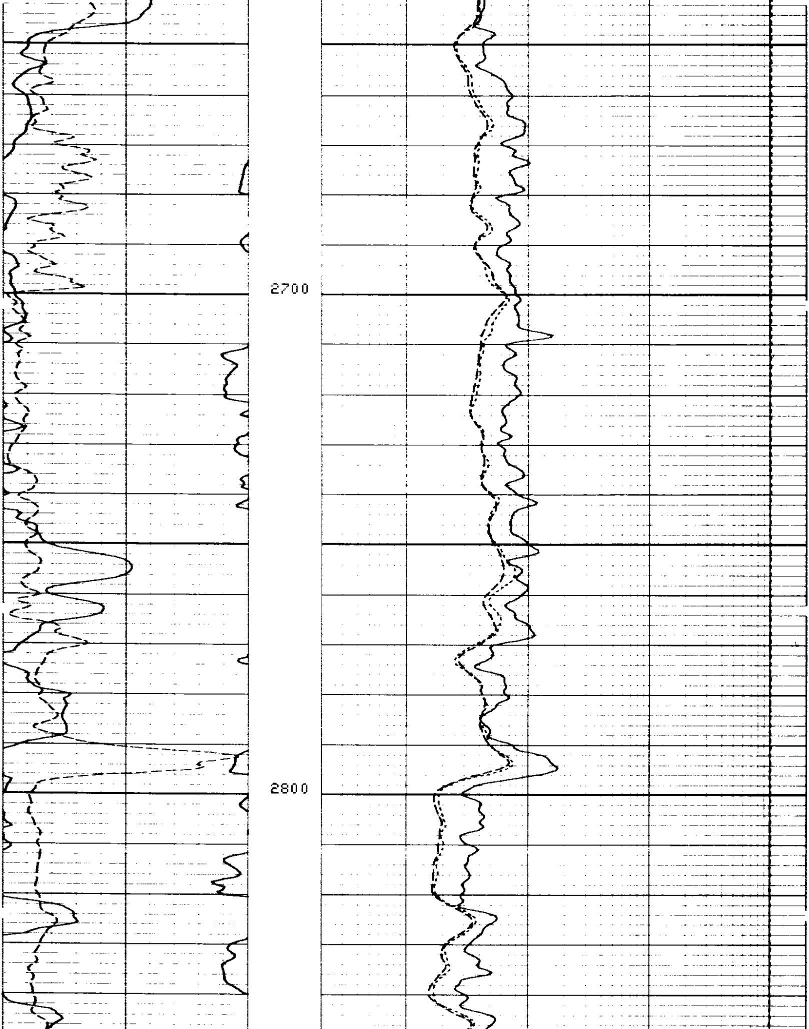


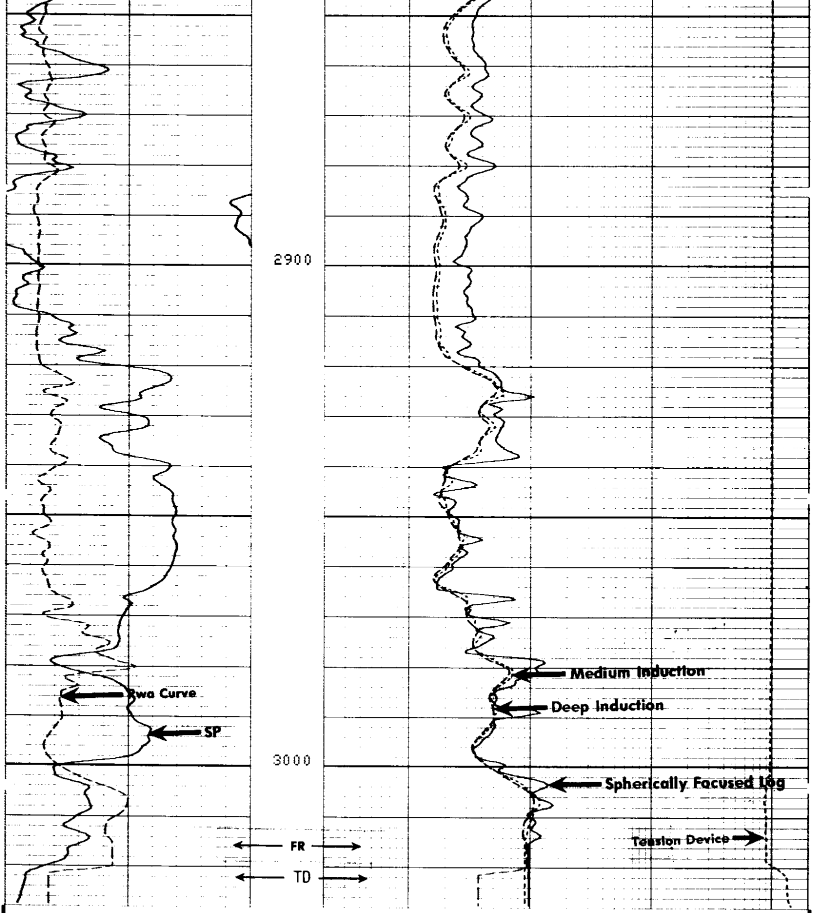












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FILE     7         29-NOV-84 09:05
DATA ACQUIRED      29-NOV-84 06:43
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TENS(LB)
10000. 0.0

ILD (OHMM)
.20000 2000.0

RWA (OHMM)
0.0 3.0000

ILM (OHMM)
.20000 2000.0

SP (MV)
-50.00 50.000

SFLU(OHMM)
.20000 2000.0

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	55.6000	US/F
SBR	1.00000	OHMM	DSEC	3.80000	MMHO
FPHI	SPHI		MSEC	5.40000	MMHO
FNUM	1.00000		FEXP	2.00000	
BS	7.87500	IN	BHS	OPEN	
SPDR	0.0		DO	0.0	F
PP	NORM				

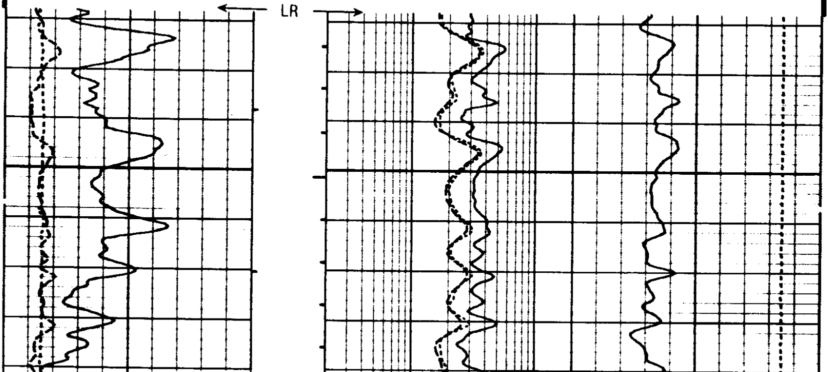
TAPE NOT MADE

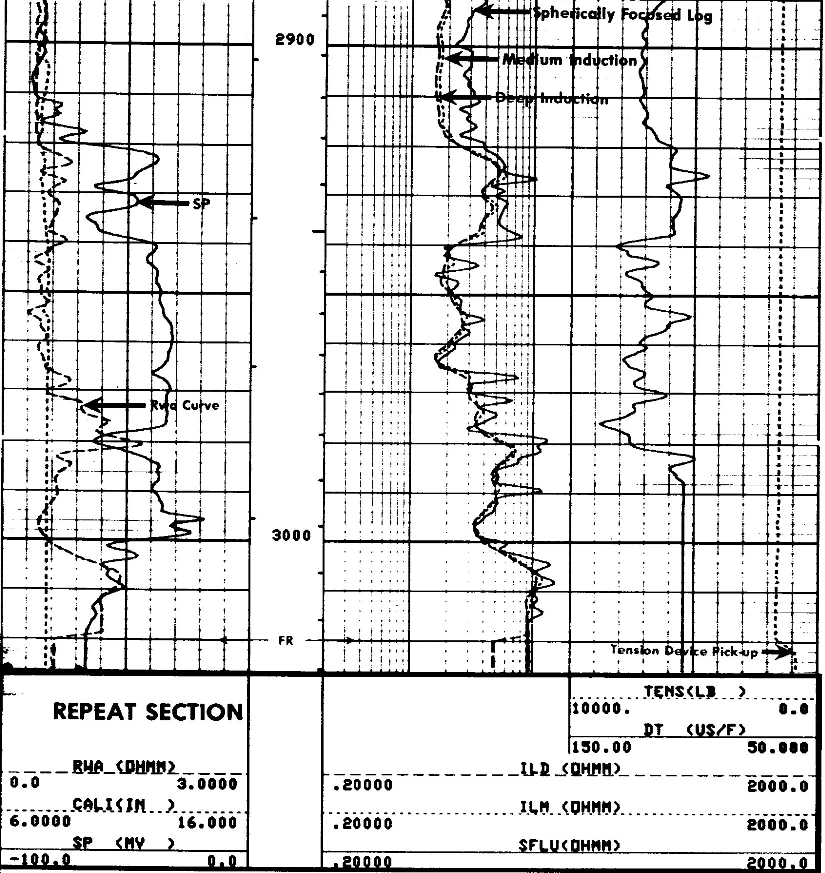
RWA (OHMM)
0.0 3.0000
CALI(IN)
6.0000 16.000
SP (MV)
-100.0 0.0

TENS(LB)
10000. 0.0
DT (US/F)
150.00 50.000
ILD (OHMM)
.20000 2000.0
ILM (OHMM)
.20000 2000.0
SFLU(OHMM)
.20000 2000.0

REPEAT SECTION

FILE 5 29-NOV-84 06:37





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                  AFTER SURVEY TOOL CHECK SUMMARY


   PERFORMED:      84/11/29
   PROGRAM FILE: ISN     (VERSION    26.2     00/00/00)


  DITD                       TOOL   CHECK


                        ZERO                         PLUS
             BEFORE            AFTER         BEFORE        AFTER      UNITS
    ILD        0.0               -.1         498.8         499.1      MMHO
    ILM        0.0               -.1         500.5         499.5      MMHO
    SFL        0.0                .4         500.0         501.4      MMHO
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```
ILD  SONDE ERROR CORRECTION :       3.8 MMHO
ILM  SONDE ERROR CORRECTION :       5.4 MMHO

                     FILE   13      29-NOV-84 07:39


               BEFORE SURVEY CALIBRATION SUMMARY


  PERFORMED:      84/11/29
  PROGRAM FILE: ISN    (VERSION    26.2    00/00/00)


DITD                ELECTRONICS CALIBRATION SUMMARY

              MEASURED                          CALIBRATED
           ZERO     PLUS                     ZERO       PLUS          UNITS
   ILD     -1.7     540.6                     0.0       498.8          MMHO
   ILM     -1.0     532.3                     0.0       500.5          MMHO
   SFL     -2.9     505.7                     0.0       500.0          MMHO

ILD  SONDE ERROR CORRECTION :       3.8 MMHO
ILM  SONDE ERROR CORRECTION :       5.4 MMHO


MCDB                CALIPER CALIBRATION SUMMARY

              MEASURED                          CALIBRATED
           SMALL    LARGE                    SMALL      LARGE         UNITS
  CALI      8.3     12.5                      8.0       12.0           IN


                SHOP SUMMARY


  PERFORMED:      84/10/31
  PROGRAM FILE: SHOP   (VERSION    26.2    83/11/17)


DITD                ELECTRONICS CALIBRATION SUMMARY

                  TEST LOOP CALIBRATION                TOOL CHECK
            MEASURED           CALIBRATED              CALIBRATED
          ZERO      PLUS      ZERO       PLUS      ZERO        PLUS    UNITS
   ILD    -5.0      521.6     0.0        500.0     0.0        499.0   MMHO
   ILM    -7.3      508.9     0.0        500.0     0.0        500.5   MMHO
ILD  SONDE ERROR CORRECTION :       3.8 MMHO
ILM  SONDE ERROR CORRECTION :       5.4 MMHO

                          (IS:1422, IC:1149)
```