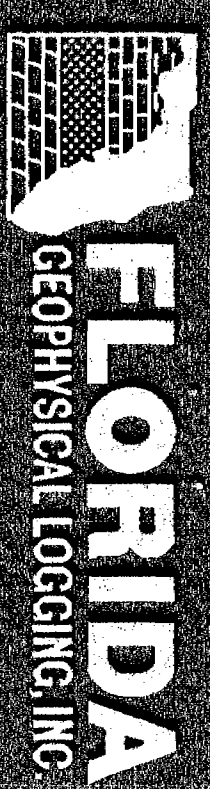


870315



FLUID RESISTIVITY TEMPERATURE LOG

COMPANY NORTH DADE W.M.T.P.
 WELL IM #1N
 FIELD NORTH DADE
 COUNTY DADE STATE FLORIDA
 LOCATION
 OTHER SERVICES:
 DIL/LL3/SP
 BHC/VDL/GR
 X-Y CALIPER
 DHTV

PERMANENT DATUM PAD LEVEL ELEV. K.B.
 LOG MEASURED FROM PAD FT. ABOVE PERMANENT DATUM D.F.
 DRILLING MEASURED FROM PAD G.L.

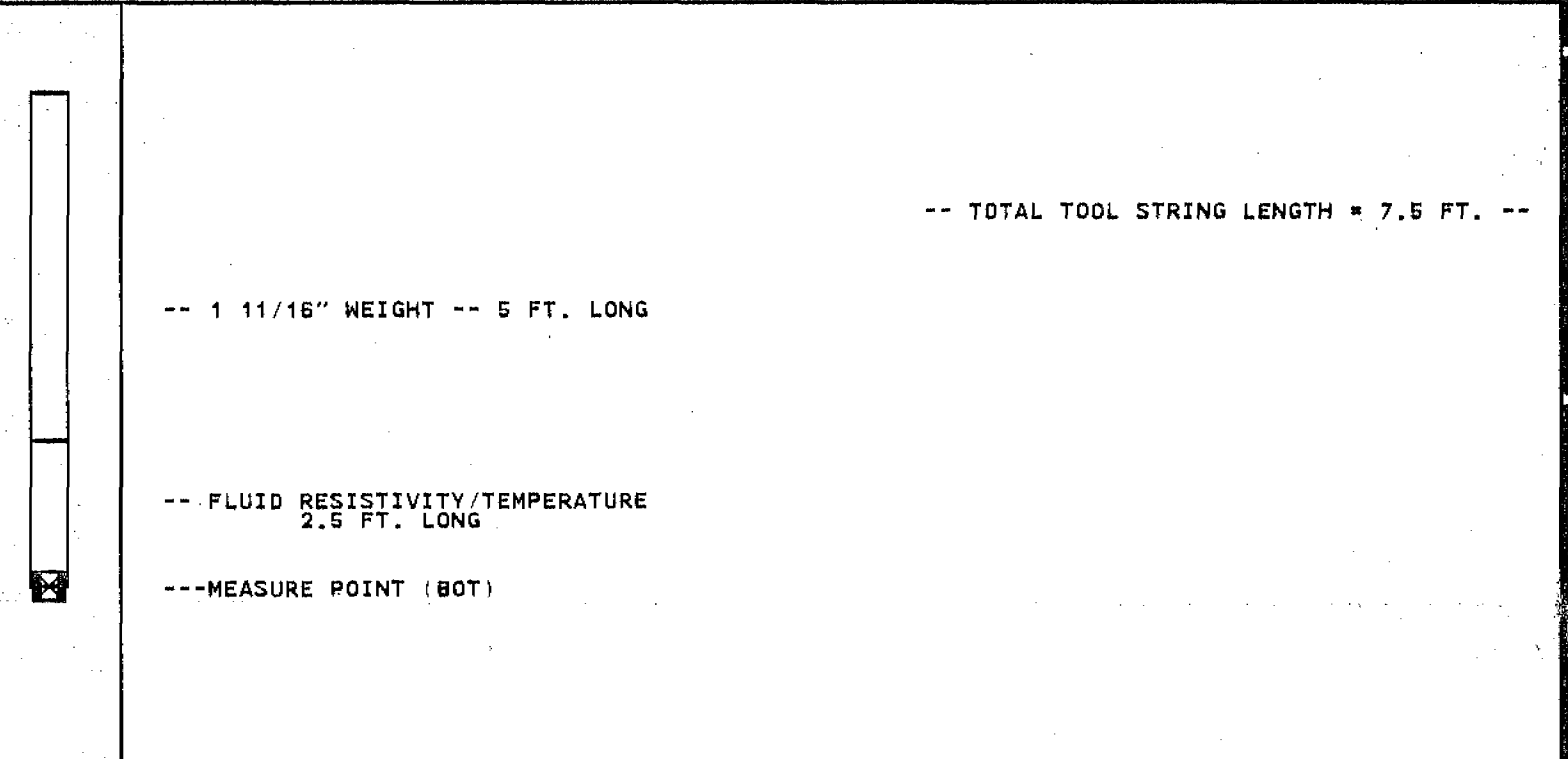
DATE 21-JULY-1997
 RUN NO. ELEVEN
 TYPE LOG FRT
 DEPTH-DRILLER 2980'
 DEPTH-LOGGER 2980'
 LOGGED INTERVAL 2980' TO 2800'
 OPERATING RIG TIME 1.5 HOURS
 TYPE FLUID IN HOLE WATER
 SALINITY, PPM CL NA
 DENSITY-VISCOSITY NA
 LEVEL FULL
 MAX. REC. TEMP. DEG F. 58 DEGF
 EQUIPMENT-LOCATION 102 FTM
 RECORDED BY LEE/MILLER
 WITNESSED BY C. CAUSARAS Y. KAZI

| BOREHOLE RECORD | | CASING RECORD | | | |
|-----------------|----------|---------------|------|-----------|---------|
| RUN NO. | BIT FROM | TO | SIZE | MGT. FROM | TO |
| TEN | 12 1/4" | 2850' | 54" | .5 M.T. | 361' |
| ELEVEN | 12 1/4" | 2980' | 44" | .5 M.T. | 1530' |
| | | | 34" | .5 M.T. | 2140' |
| | | | | | SURFACE |

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 INTERPRETATION, AND WE SHALL NOT, EXCEPT IN THE CASE OF GROSS OR WILLFULL 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 SET OUT IN OUR CURRENT PRICE SCHEDULE.

REMARKS

FLUID RESISTIVITY/TEMPERATURE TOOL STRING CONFIGURATION

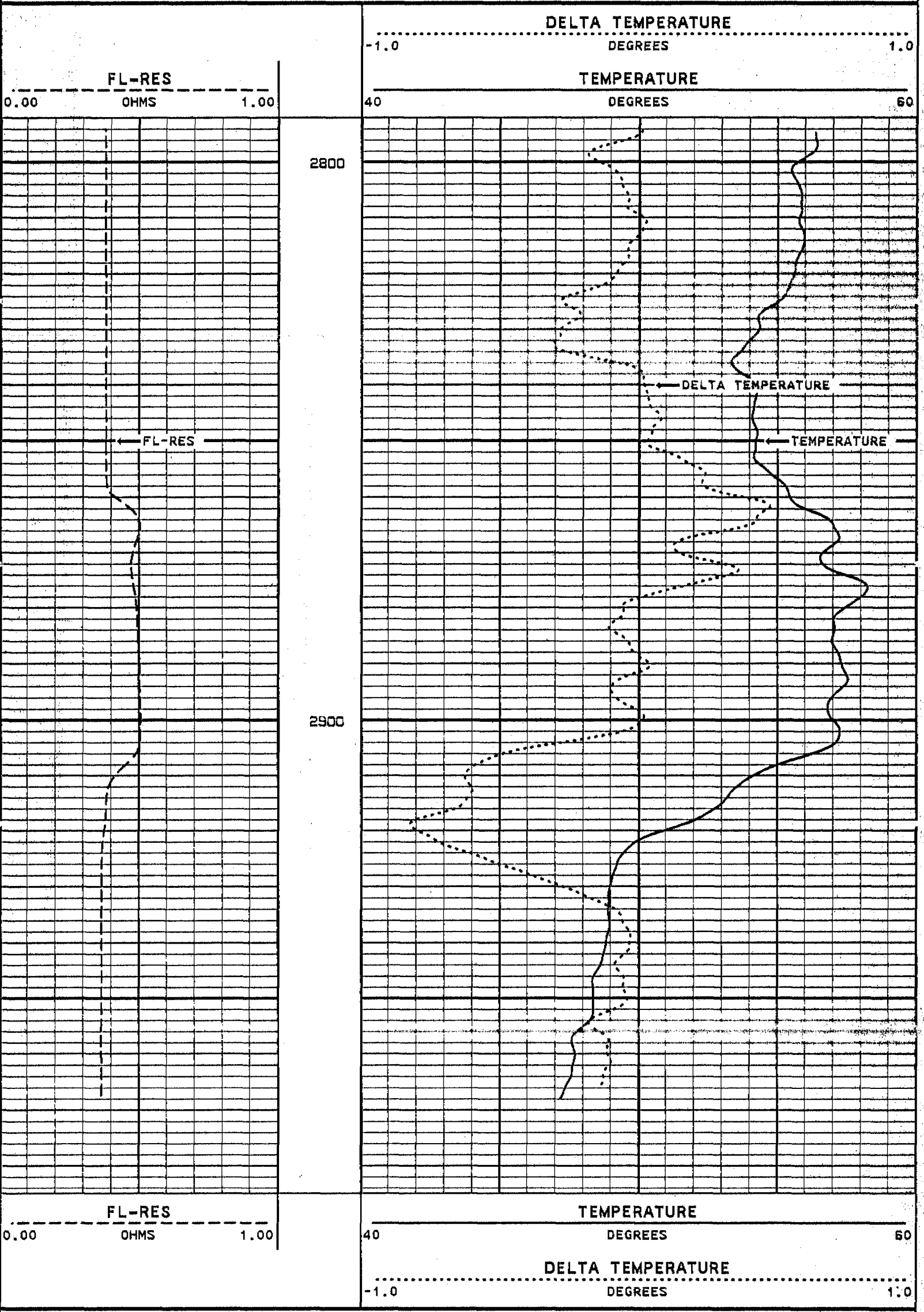


VERSION: 2.42

MAIN PASS

IW111FRTMP

FINISH DEPTH: 2972.1 FEET DIRECTION: DOWN DATE: 07/21/97 TIME: 07:56:30 MODE: TRACE PLAYBACK



START DEPTH: 2798.6 FEET DIRECTION: DOWN DATE: 07/21/97 TIME: 07:52:02 MODE: TRACE PLAYBACK

IW111FRTMP

MAIN PASS

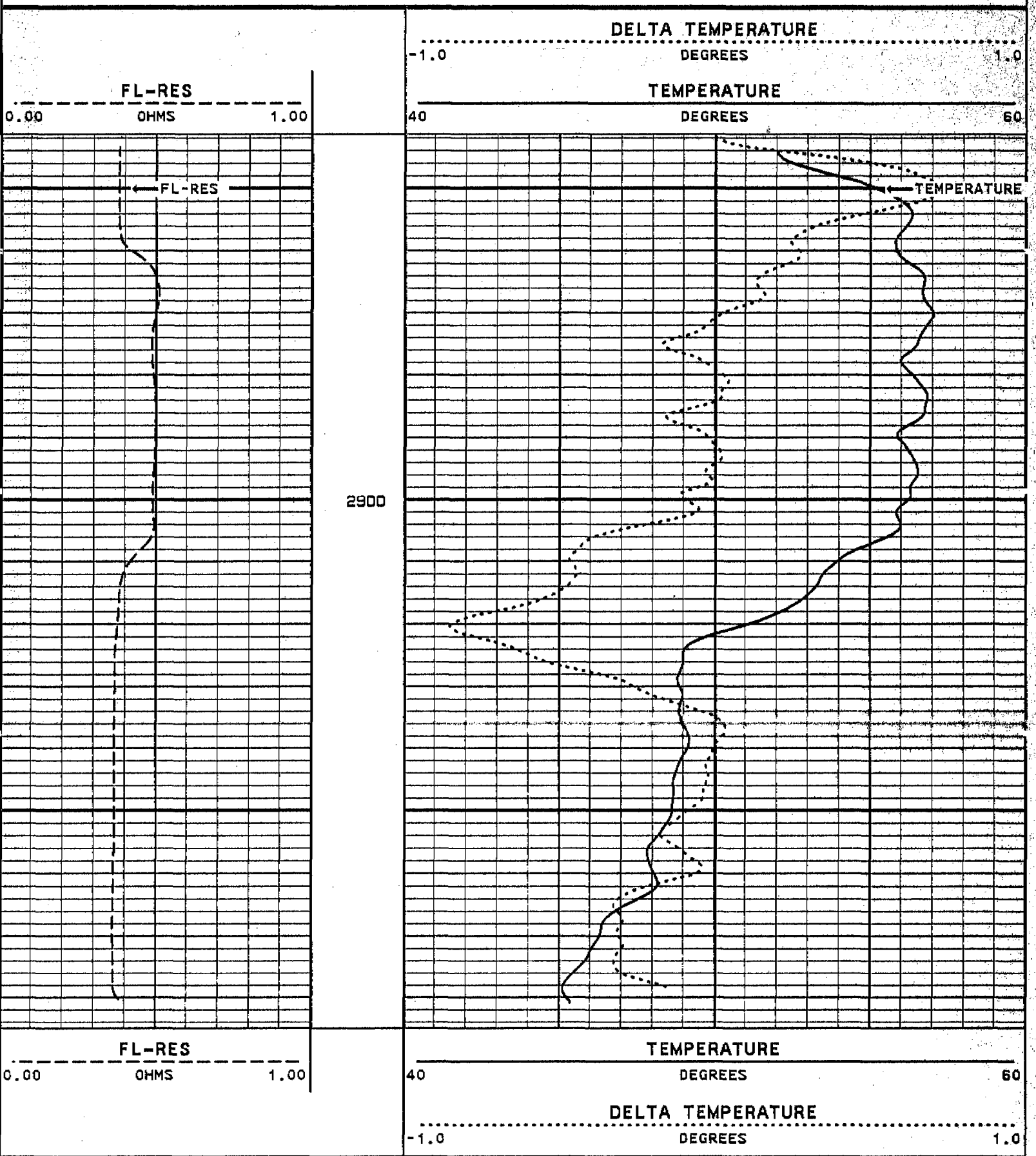
VERSION: 2.42

REPEAT SECTION

2

IW111FRTRP

FINISH DEPTH: 2985.0 FEET DIRECTION: DOWN DATE: 07/21/97 TIME: 08:02:44 MODE: TRACE PLAYBACK



START DEPTH: 2847.9 FEET DIRECTION: DOWN DATE: 07/21/97 TIME: 07:59:00 MODE: TRACE PLAYBACK

IW111FRTRP

REPEAT SECTION

MASTER CALIBRATION SUMMARY

FILE: DATE: 07/21/97 TIME: 11:25 VERSION: 2.42

TEMPERATURE #31

DATE: 05/05/97 TIME: 10:25

| | MEASURED | UNITS | STANDARD | MINIMUM | MAXIMUM | DEVIATION | UNITS |
|------|----------|-------|----------|---------|---------|-----------|-------|
| ZERO | 283.1 | CPS | 69.6 | 69.5 | 69.6 | 0.04 | DEGF |
| PLUS | 386.8 | CPS | 91.0 | 91.0 | 91.0 | 0.00 | DEGF |

FL-RES TOOL #31

DATE: 05/05/97 TIME: 10:55

| | MEASURED | UNITS | STANDARD | MINIMUM | MAXIMUM | DEVIATION | UNITS |
|--------------|----------|-------|----------|---------|---------|-----------|-------|
| SONDEX 50000 | 8770.0 | CPS | 0.20 | 0.20 | 0.20 | 0.000 | CPS |
| SONDEX 25000 | 4540.0 | CPS | 0.40 | 0.40 | 0.40 | 0.000 | CPS |
| SONDEX 10000 | 2380.0 | CPS | 0.80 | 0.80 | 0.80 | 0.000 | CPS |
| SONDEX 500 | 89.0 | CPS | 20.00 | 20.00 | 20.00 | 0.000 | CPS |

COMPANY NORTH DADE W.W.T.P.

WELL IW #1N

FIELD NORTH DADE STATE FLORIDA

