Schlumberger

DUAL INDUCTION SFL 5"

CSU Field Log

COMPANY: STEAM RESERVE CORPORATION

WELL: FISH LAKE #88-11

FIELD: WILDCAT
COUNTY: ESMERALDA
STATE: NEVADA
NATION: USA
LOCATION: 5180'E & 5100'S OF NW COR

SEC: 11 TWP: 1S RGE: 35E

PERMANENT DATUM: GL
ELEV. OF PERM. DATUM: 5120.0 F
LOG MEASURED FROM: KB
30.0 F ABOVE PERM. DATUM
DRLG. MEASURED FROM: KB

ELEVATIONS-
KB: 5150.0 F
DF:
GL: 5120.0 F

DATE: 22 MAY 84
RUN NO: 2

DEPTH-DRILLER: 8100.0 F
DEPTH-LOGGER: 7916.0 F
BTM. LOG INTERVAL: 7910.0 F
TOP LOG INTERVAL: 6138.0 F

CASING-DRILLER: 1047 F
CASING-LOGGER: 1048 F
CASING: 13 3/8"

BIT SIZE: 12 1/4"
DEPTH: 7700 F

OTHER SERVICES-
FDC/CNL/GR

PROGRAM
TAPE NO:
26.2
SERVICE
ORDER NO:
383530

TYPE FLUID IN HOLE: GEL-WATER
DENSITY: 8.8 LB/G
VISCOSITY: 41.0 S
PH: 8.8
FLUID LOSS: 18.6 C3
SOURCE OF SAMPLE: FLOWLINE
RM: 1.430 OHMM AT 104. DEGF
RMF: 3.350 OHMM AT 64.0 DEGF
RMC: 1.870 OHMM AT 70.0 DEGF
SOURCE RMF/RMC: MEASURED/MEASURED
RM AT BHT: .513 OHMM AT 302. DEGF
RMF AT BHT: .769 OHMM AT 302. DEGF
RMC AT BHT: .465 OHMM AT 302. DEGF

TIME CIRC. STOPPED: 1920 5/21
TIME LOGGER ON BTM.: 2359 5/21/8

MAX. REC. TEMP: 302.0 DEGF

LOGGING UNIT NO: 8126
LOGGING UNIT LOC: SACRAMENTO
RECORDED BY: ANDERSEN
WITNESSED BY: DEYMONAZ PILKINGTON

REMARKS:

LOGGED FROM 7900 AT CLIENTS REQUEST.
MRT#1 302 MRT #2 300 MRT #3 302

EQUIPMENT NUMBERS-

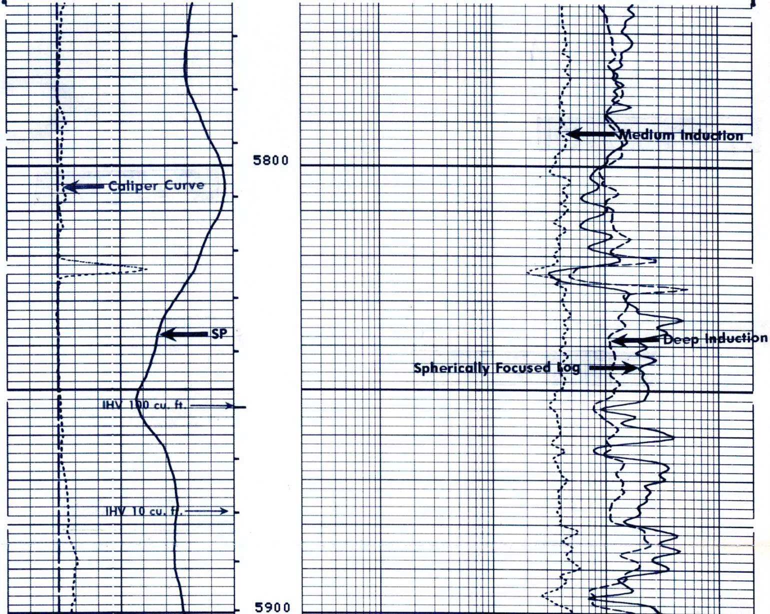
IEM 685	NLM 418	CNC 2687	PGS 675
PDH 1244	IS 1342	IC 1359	

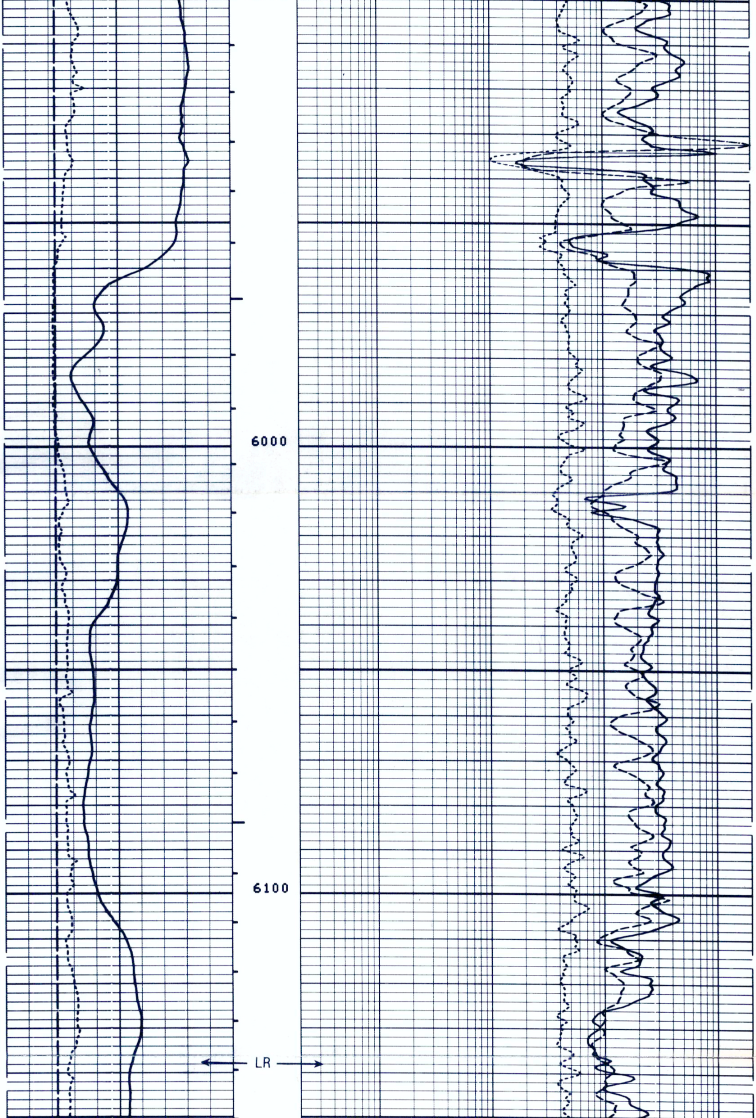
ALL INTERPRETATIONS ARE OPINIONS BASED ON INFERENCES FROM ELECTRICAL OR OTHER MEASUREMENTS AND WE CANNOT, AND DO NOT GUARANTEE THE ACCURACY OR CORRECTNESS OF ANY INTERPRETATIONS, AND WE SHALL NOT, EXCEPT IN THE CASE OF GROSS OR WILLFUL NEGLIGENCE ON OUR PART, BE LIABLE OR RESPONSIBLE FOR ANY LOSS, COSTS,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

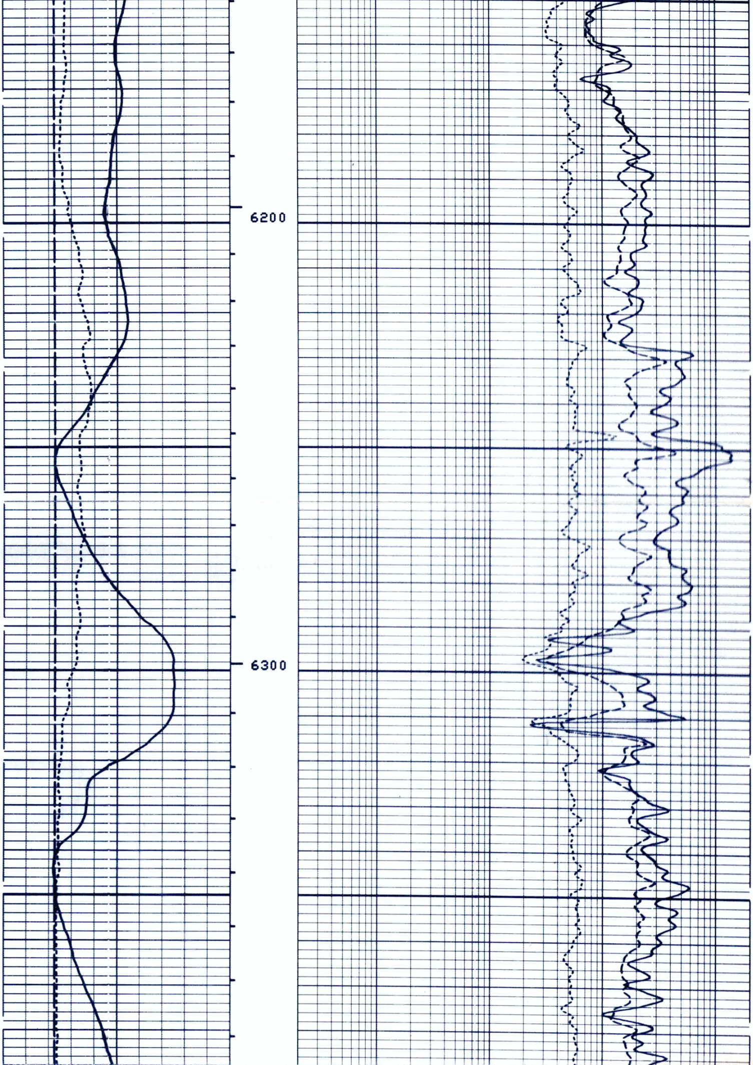
FILE 16 22-MAY-84 02:42
DATA ACQUIRED 00- -00 00:00

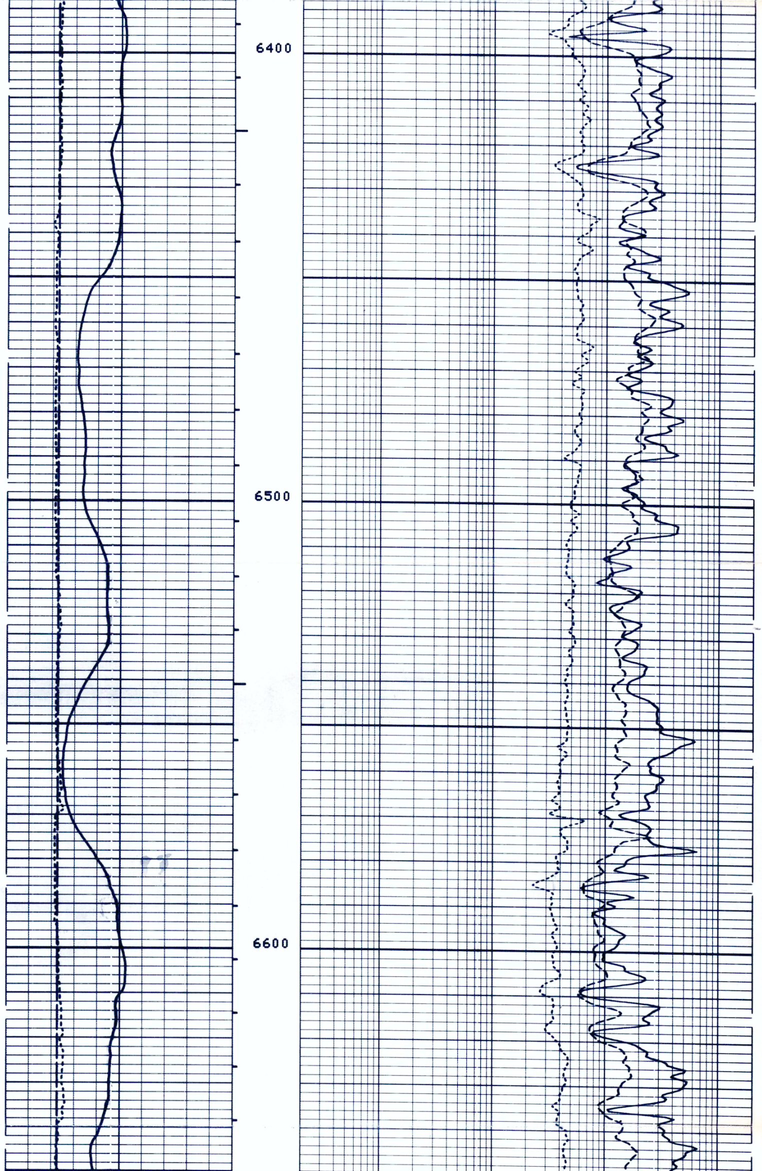
BS (IN)			ILD (OHMM)	
10.000	20.000		.20000	2000.0
CALI(IN)			ILM (OHMM)	
10.000	20.000		.20000	2000.0
SP (MV)			SFLU(OHMM)	
-100.0	0.0		.20000	2000.0

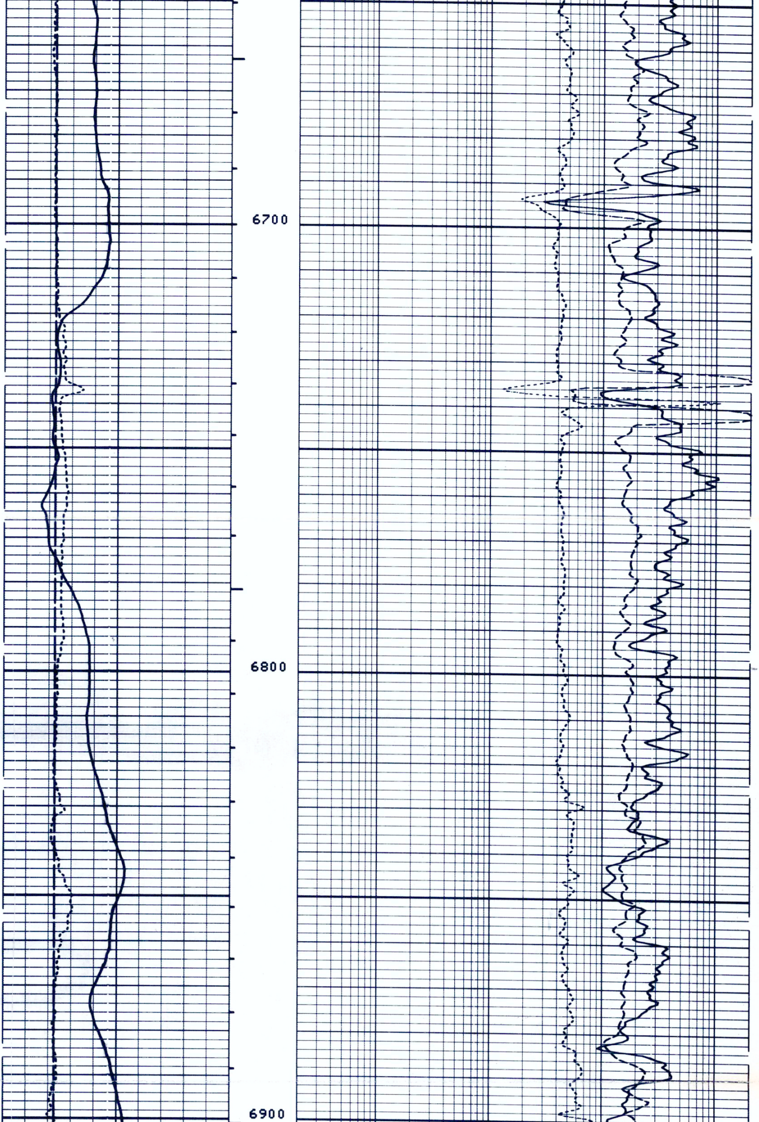
FILE 108 22-MAY-84 02:24
DATA ACQUIRED 22-MAY-84 01:12

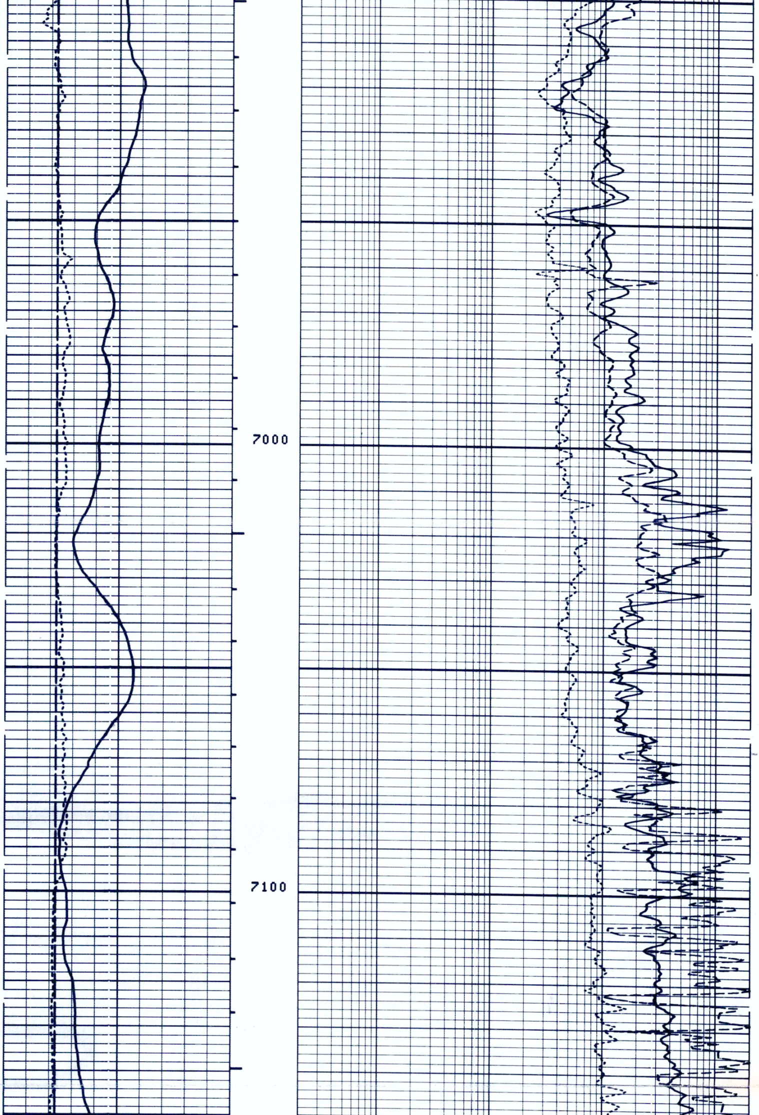


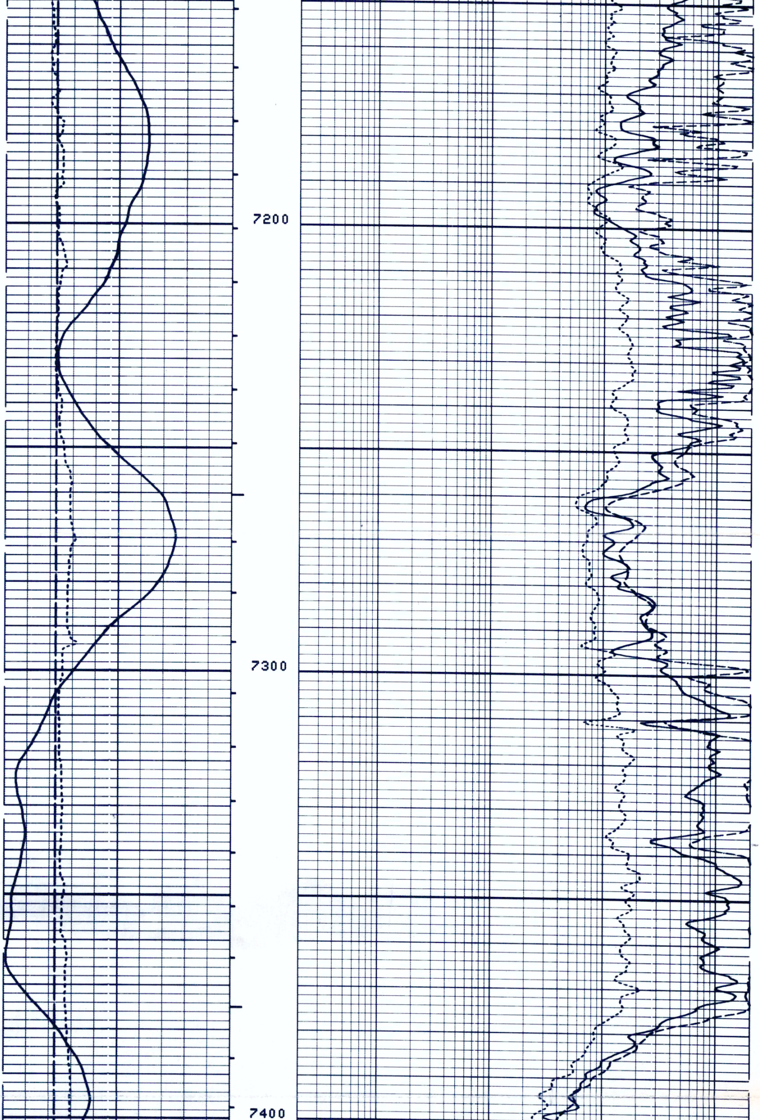


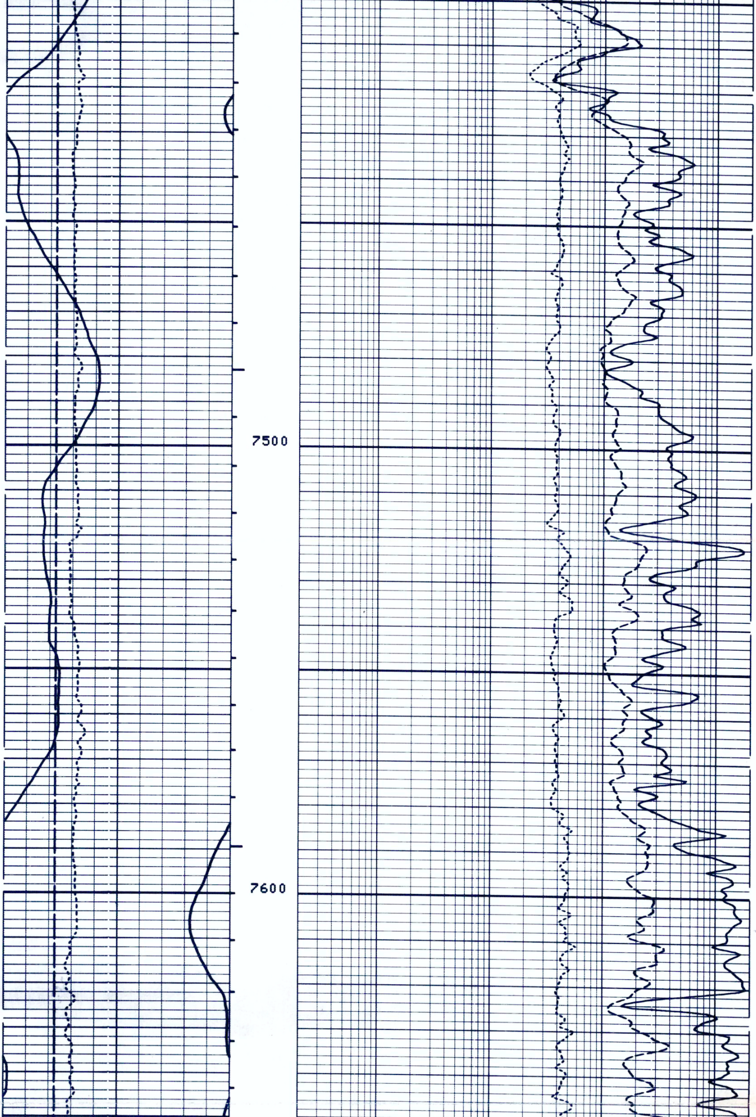


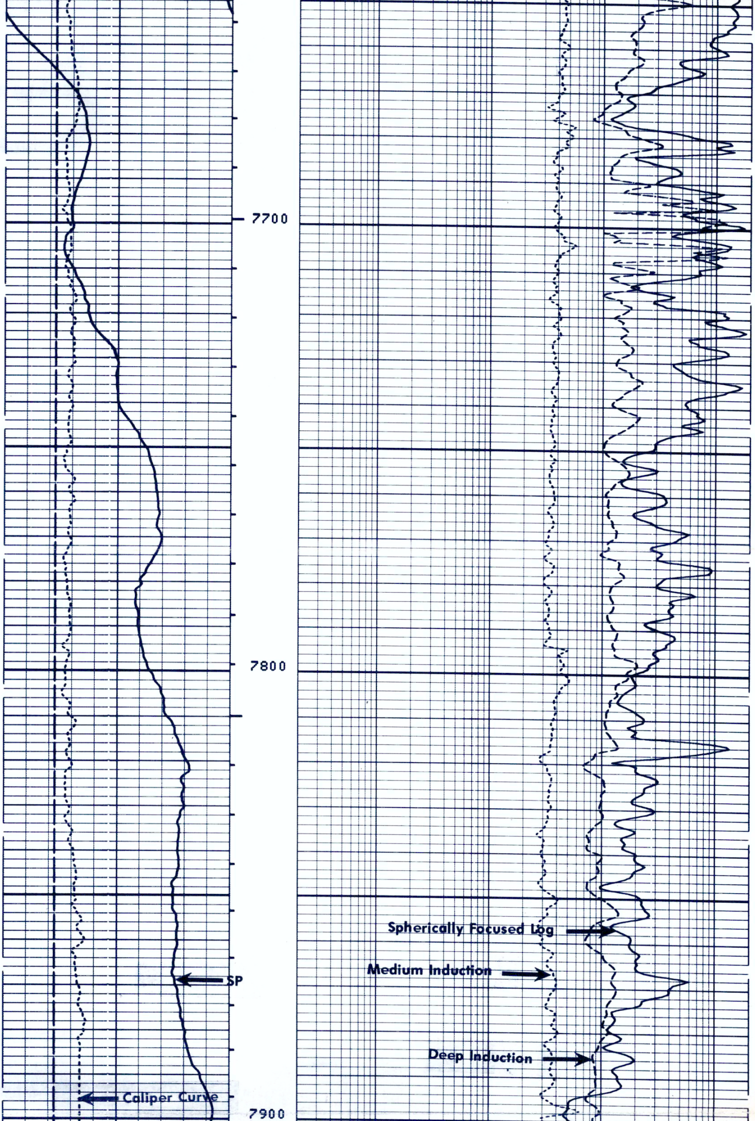


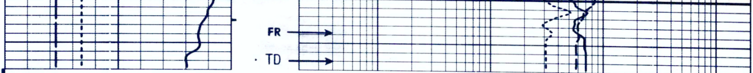












FILE 108 22-MAY-84 02:18
DATA ACQUIRED 21-MAY-84 23:59

BS (IN)
10.000 20.000
CALI(IN)
10.000 20.000
SP (MV)
-100.0 0.0

ILD (OHMM)
.20000 2000.0
ILM (OHMM)
.20000 2000.0
SFLU(OHMM)
.20000 2000.0

SENSOR MEASURE POINT TO TOOL ZERO

NCNL	46.9	FEET	GR	55.4	FEET
FFDC	31.5	FEET	FCNL	46.9	FEET
CALI	31.5	FEET	NFDC	31.5	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
NRAT	46.9	FEET			

PARAMETERS

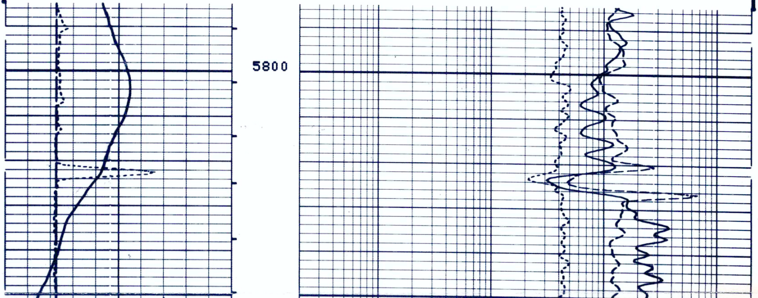
NAME	VALUE	UNIT	NAME	VALUE	UNIT
HC	CALI		PSNR	2.20600	
FD	1.00000	G/C3	MATR	SAND	
FDCC	ALLO		MDEN	2.65000	G/C3
DSEC	4.80000	MMHO	BHF	WATE	
MSEC	7.20000	MMHO	SBR	1.00000	OHMM
BS	12.2500	IN	BHS	OPEN	
SPDR	.0100000		DO	0.0	F
PP	RECO				

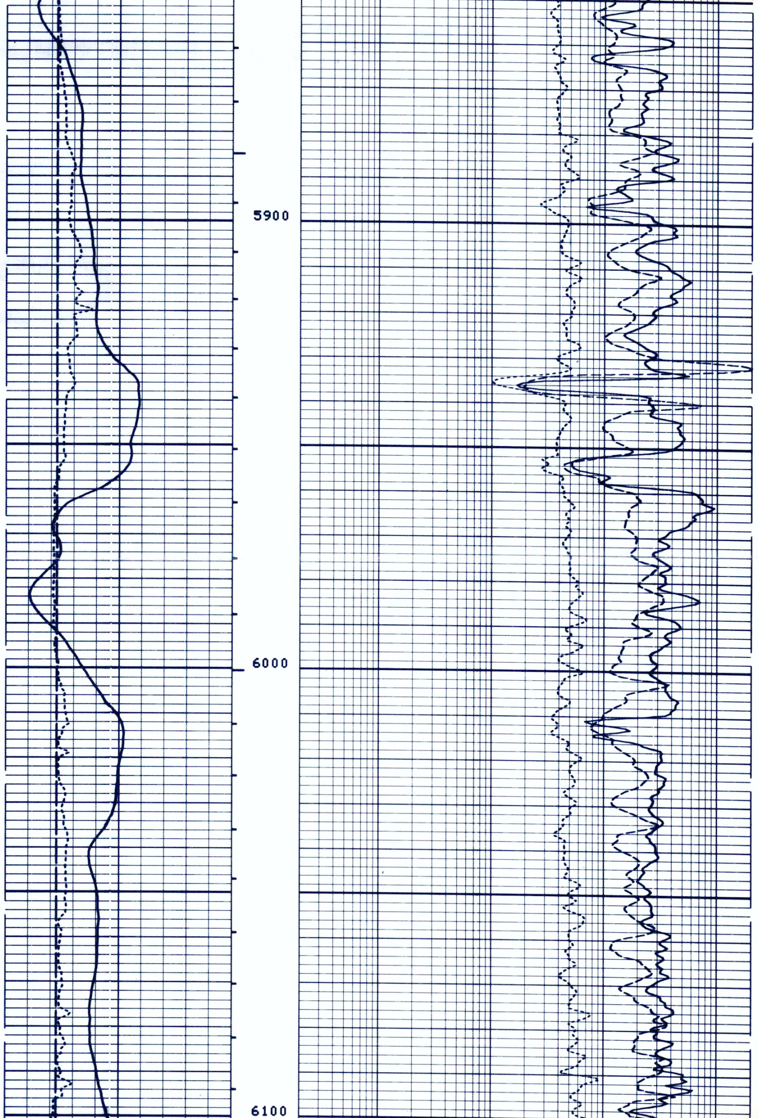
BS (IN)
10.000 20.000
CALI(IN)
10.000 20.000
SP (MV)
-100.0 0.0

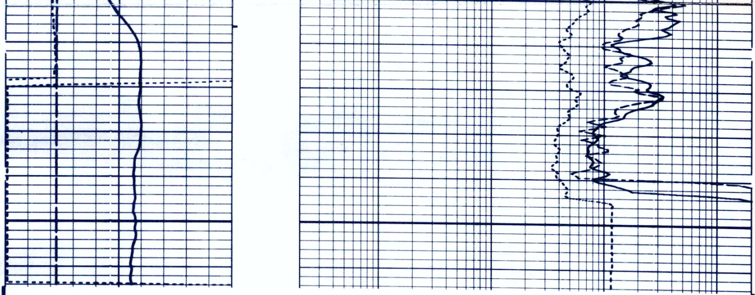
ILD (OHMM)
.20000 2000.0
ILM (OHMM)
.20000 2000.0
SFLU(OHMM)
.20000 2000.0

REPEAT SECTION

FILE 107 22-MAY-84 02:15
DATA ACQUIRED 22-MAY-84 01:32







```
FILE  107         22-MAY-84 02:14
DATA ACQUIRED     22-MAY-84 01:18
```

REPEAT SECTION

```
        BS  (IN  )                              ILD (OHMM)
10.000            20.000       .20000                                  2000.0
        CALI(IN  )                              ILM (OHMM)
10.000            20.000       .20000                                  2000.0
        SP  (MV  )                              SFLU(OHMM)
-100.0               0.0       .20000                                  2000.0
```

SENSOR MEASURE POINT TO TOOL ZERO

```
NCNL 46.9   FEET                    GR    55.4   FEET
FFDC 31.5   FEET                    FCNL  46.9   FEET
CALI 31.5   FEET                    NFDC  31.5   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
NRAT 46.9   FEET
```

PARAMETERS

```
NAME  VALUE      UNIT                    NAME  VALUE       UNIT

HC    CALI                               PSNR  2.20600
FD    1.00000    G/C3                    MATR  SAND
FDCC  ALLO                               MDEN  2.65000     G/C3
DSEC  4.80000    MMHO                    BHF   WATE
MSEC  7.20000    MMHO                    SBR   1.00000     OHMM
BS    12.2500    IN                      BHS   OPEN
SPDR  .0100000                           DO    0.0         F
PP    RECO
```

AFTER SURVEY TOOL CHECK SUMMARY

```
PERFORMED:      84/05/22
PROGRAM FILE: ISN     (VERSION    26.2    83/11/17)


DITD                  TOOL  CHECK
```

```
                    ZERO                              PLUS
             BEFORE        AFTER            BEFORE       AFTER      UNITS
     ILD       0.0            .0            495.2        484.3      MMHO
     ILM       0.0            .3            496.9        488.3      MMHO
     SFL       0.0            .0            500.0        499.5      MMHO

  ILD   SONDE ERROR CORRECTION :           5.7 MMHO
  ILM   SONDE ERROR CORRECTION :           7.2 MMHO
```

```
                  BEFORE SURVEY CALIBRATION SUMMARY


    PERFORMED:      84/05/21
    PROGRAM FILE: ISN     (VERSION     26.2     83/11/17)


  DITD                 ELECTRONICS CALIBRATION SUMMARY

               MEASURED                         CALIBRATED
             ZERO      PLUS                  ZERO        PLUS          UNITS
     ILD       .4     534.5                   0.0        495.2          MMHO
     ILM       .3     518.5                   0.0        496.9          MMHO
     SFL      -.0     541.0                   0.0        500.0          MMHO

  ILD   SONDE ERROR CORRECTION :           5.7 MMHO
  ILM   SONDE ERROR CORRECTION :           7.2 MMHO
```

```
                   SHOP SUMMARY


     PERFORMED:      84/05/17
     PROGRAM FILE: SHOP    (VERSION     24.2     83/03/29)


   DITD                 ELECTRONICS CALIBRATION SUMMARY

                  TEST LOOP CALIBRATION               TOOL CHECK
               MEASURED          CALIBRATED           CALIBRATED
              ZERO      PLUS      ZERO       PLUS      ZERO       PLUS     UNITS
       ILD    -5.9     538.4      0.0       500.0      0.0       495.7     MMHO
       ILM    -8.5     522.4      0.0       500.0      0.0       496.7     MMHO
   ILD   SONDE ERROR CORRECTION :           4.8 MMHO
   ILM   SONDE ERROR CORRECTION :           7.2 MMHO

                           (IS:1342, IC:1359)
```