Schlumberger

DUAL INDUCTION SFL

CSU

COMPANY:	OREGON NATURAL GAS DEVELOPMENT CORP
WELL:	PATTON 32-9 RD#1
FIELD:	OLNEY
COUNTY:	CLATSOP
STATE:	OREGON
LOCATION:	2068.78' S & 1380.1' W FROM THE NE CORNER OF
SEC:	9 TWP: 7N RGE: 8W

RECEIVED-PTL
MAR 10 1983
DEPT OF GEOLOGY

PERMANENT DATUM: GL
ELEV. OF PERM. DATUM: 731.0 '
LOG MEASURED FROM: KB
21.0 ' ABOVE PERM. DATUM
DRLG. MEASURED FROM: KB

ELEVATIONS-
KB: 752.0 '
DF:
GL: 731.0 '

DATE: 17 FEB 1983
RUN NO: 1

DEPTH-DRILLER:	3917.0 '
DEPTH-LOGGER:	3900.0 '
BTM. LOG INTERVAL:	3892.0 '
TOP LOG INTERVAL:	2030.0 '
CASING-DRILLER:	2030 '
CASING-LOGGER:	2030 '
CASING:	9.625
BIT SIZE:	8.75
DEPTH:	3917 '

OTHER SERVICES-
DLL
FDC/CNL/GR
BHC

PROGRAM
TAPE NO:
22.4
SERVICE
ORDER NO:
382921

TYPE FLUID IN HOLE:	KCL POLYMER
DENSITY:	9.9 LB/G
VISCOSITY:	40.0 S
PH:	7.5
FLUID LOSS:	7.6 C3
SOURCE OF SAMPLE:	CIRC
RM:	0.120 OHMM AT 57.0 DEGF
RMF:	0.097 OHMM AT 57.0 DEGF
RMC:	0.230 OHMM AT 58.0 DEGF
SOURCE RMF/RMC:	MEAS. /MEAS.
RM AT BHT:	0.066 OHMM AT 108. DEGF
RMF AT BHT:	0.053 OHMM AT 108. DEGF
RMC AT BHT:	0.130 OHMM AT 108. DEGF
TIME CIRC. STOPPED:	1200
TIME LOGGER ON BTM.:	2300

MAX. REC. TEMP: 108.0 DEGF

LOGGING UNIT NO: 8128
LOGGING UNIT LOC: SACRAMENTO
RECORDED BY: ANDERSEN
WITNESSED BY: PORTWOOD

REMARKS:

EQUIPMENT NUMBERS-

SLM 131	SLC 592	PDH 079	SLS 375
IS 457	IC 342	MCD 305	IEM 304

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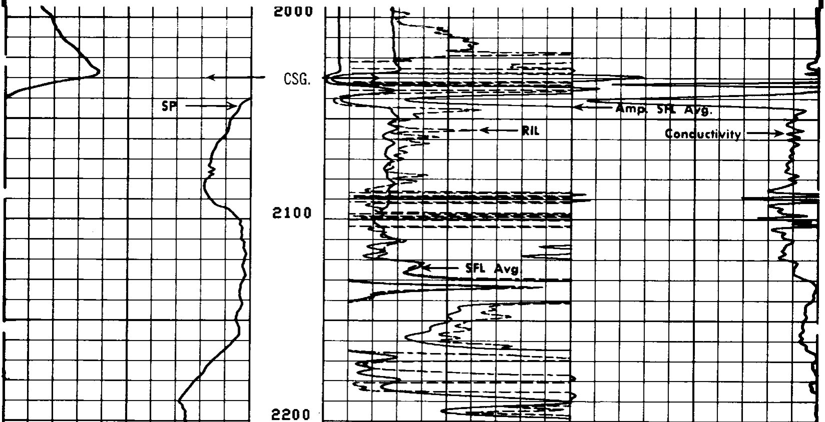
FILE

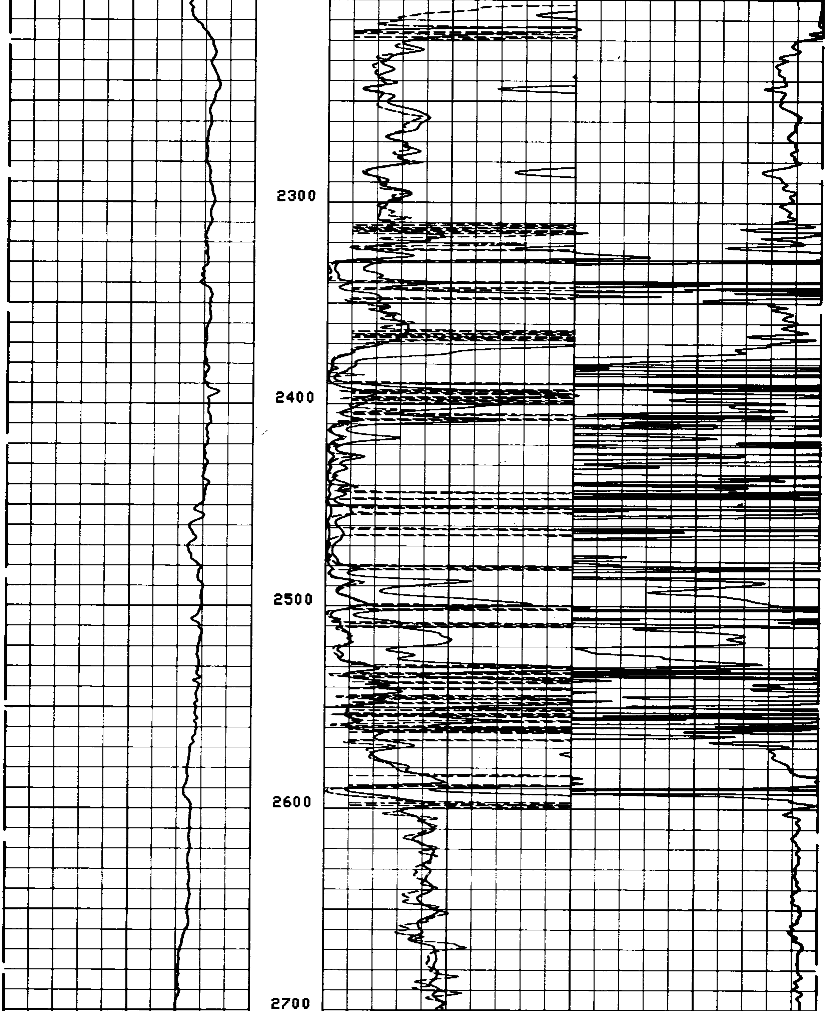
106

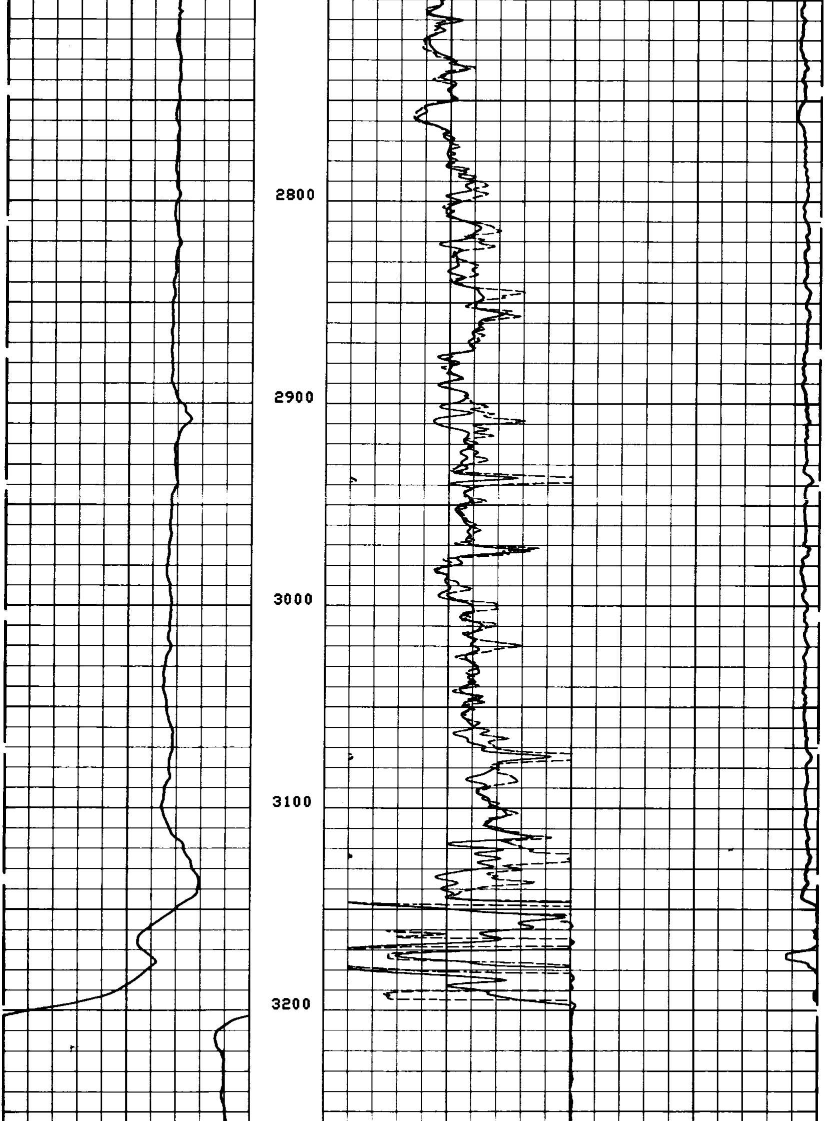
		ILD (OHMM)	
		0.0 30.000	
		SFLA(OHMM)	
		0.0 6.0000	
SP (MV)		SFLA(OHMM)	CILD(MMHO)
-140.0 60.000		0.0 30.000	1000.0 0.0

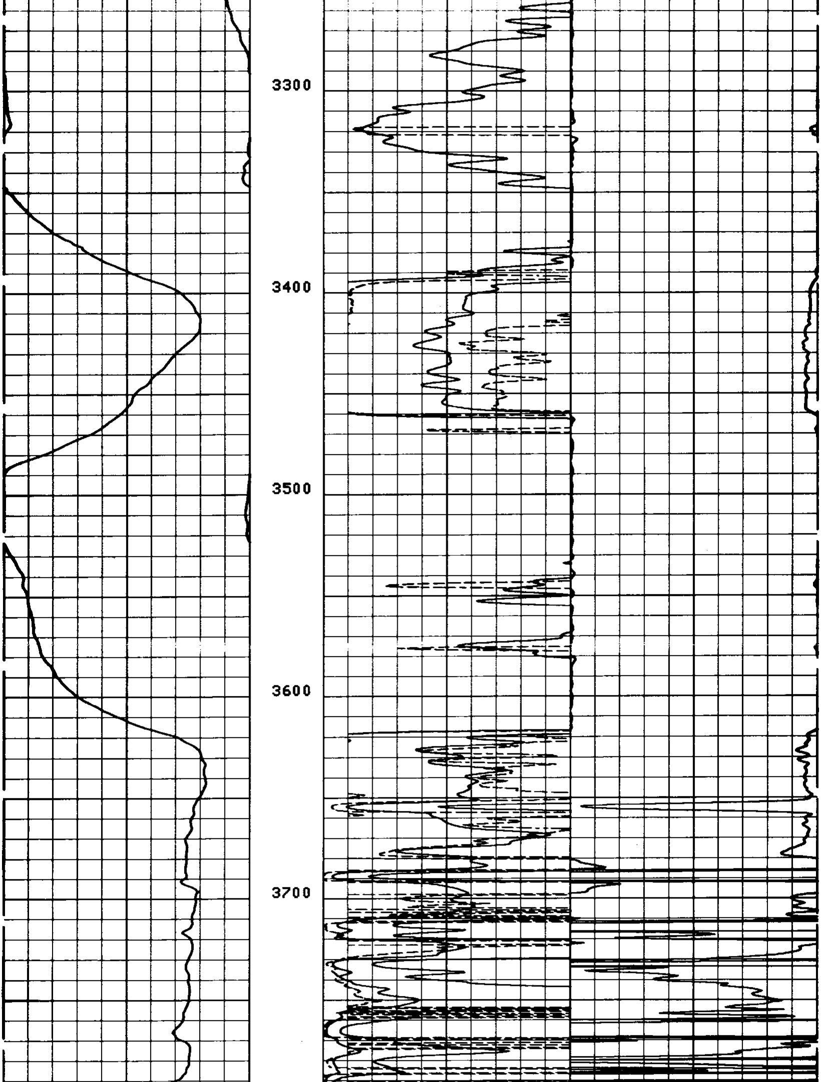
FILE

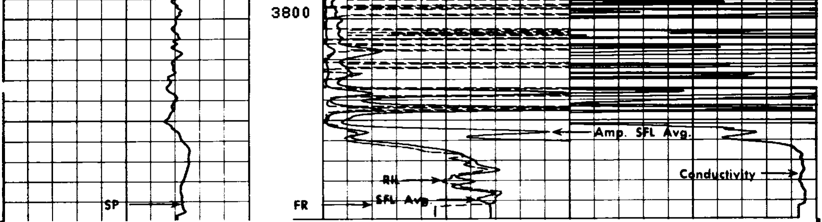
106











FILE

106

SP (MV)
-140.0 60.000

ILD (OHMM)
0.0 30.000
SFLA(OHMM)
0.0 6.0000
SFLA(OHMM)
0.0 30.000

CILD(MMHO)
1000.0 0.0

SENSOR MEASURE POINT TO TENSION REFERENCE POINT

AMPL	45.4	FEET	DT	42.9	FEET
SRAT	42.9	FEET	CBL	45.4	FEET
CALI	33.3	FEET	TT	45.4	FEET
SFL	7.9	FEET	ILD	10.9	FEET
SP	4.0	FEET	ILM	7.3	FEET
TENS	.0	FEET	SPAR	4.0	FEET
NOIS	37.2	FEET			

PARAMETERS

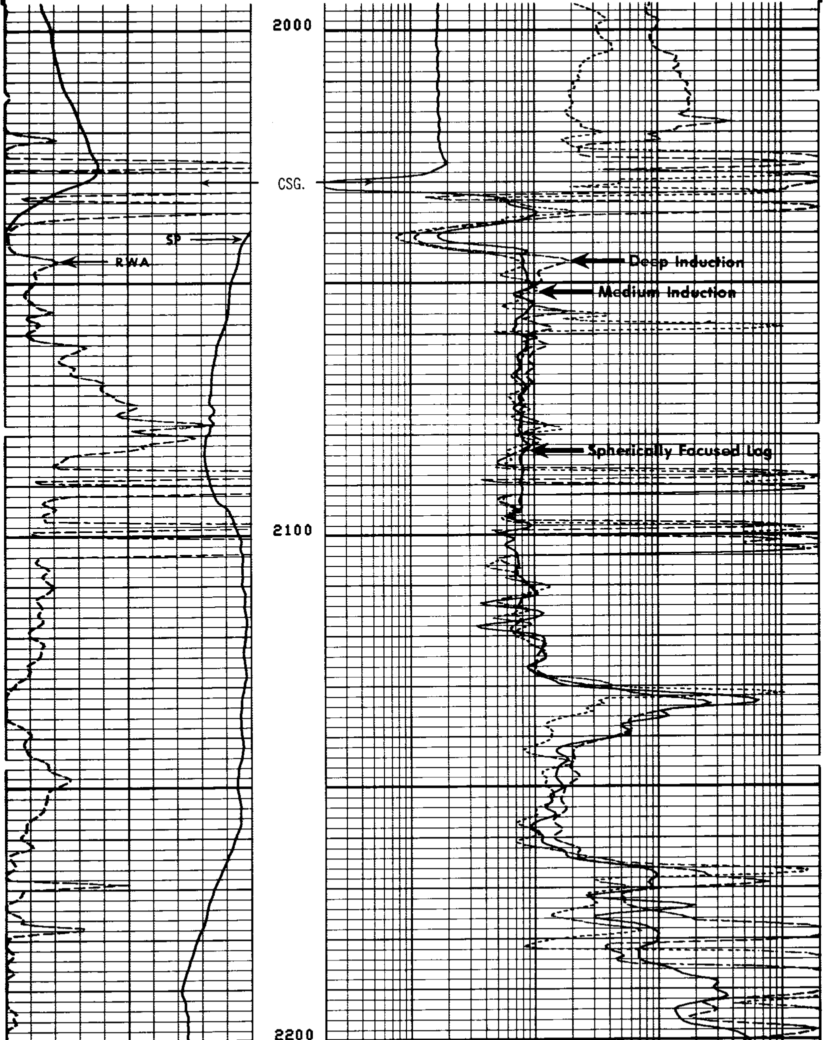
NAME	VALUE	UNIT	NAME	VALUE	UNIT
CDTS	100.000		BS	8.75000	IN
DTF	189.000	US/F	DTM	56.0000	US/F
SBR	1.00000	OHMM	DSEC	10.5000	MMHO
FPHI	SPHI		MSEC	8.50000	MMHO
DO	0.0	F	BHS	OPEN	

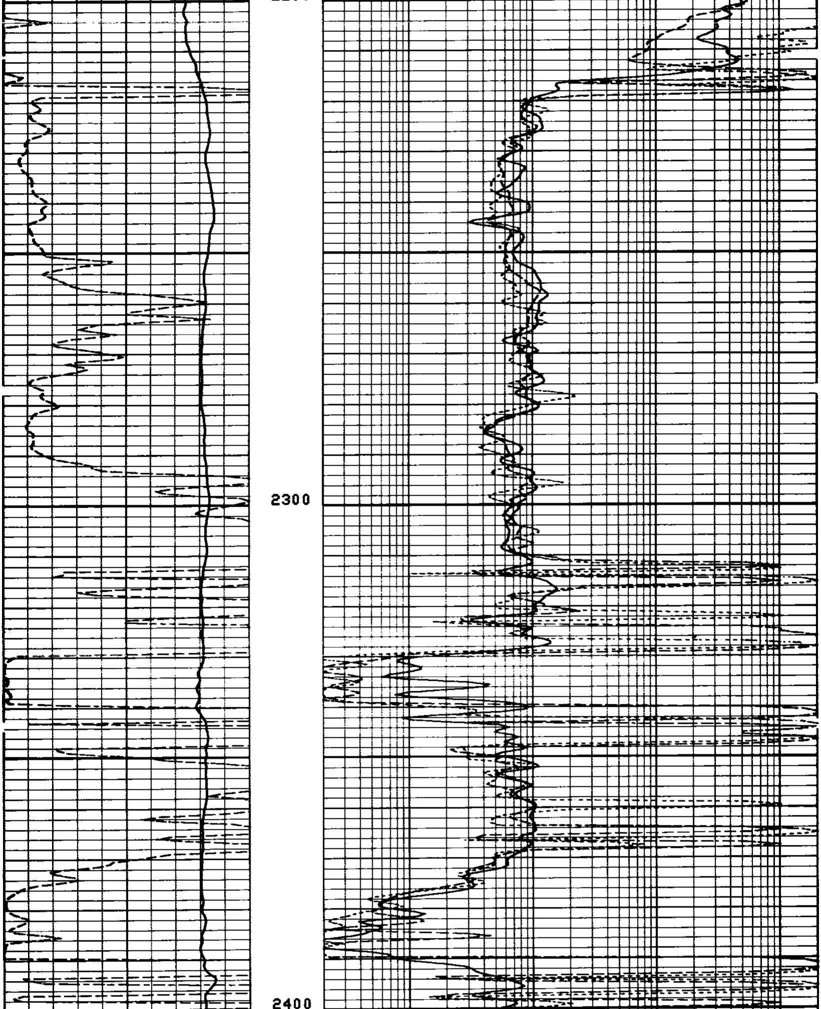
RWA (OHMM)
0.0 10.000
SP (MV)
-140.0 60.000

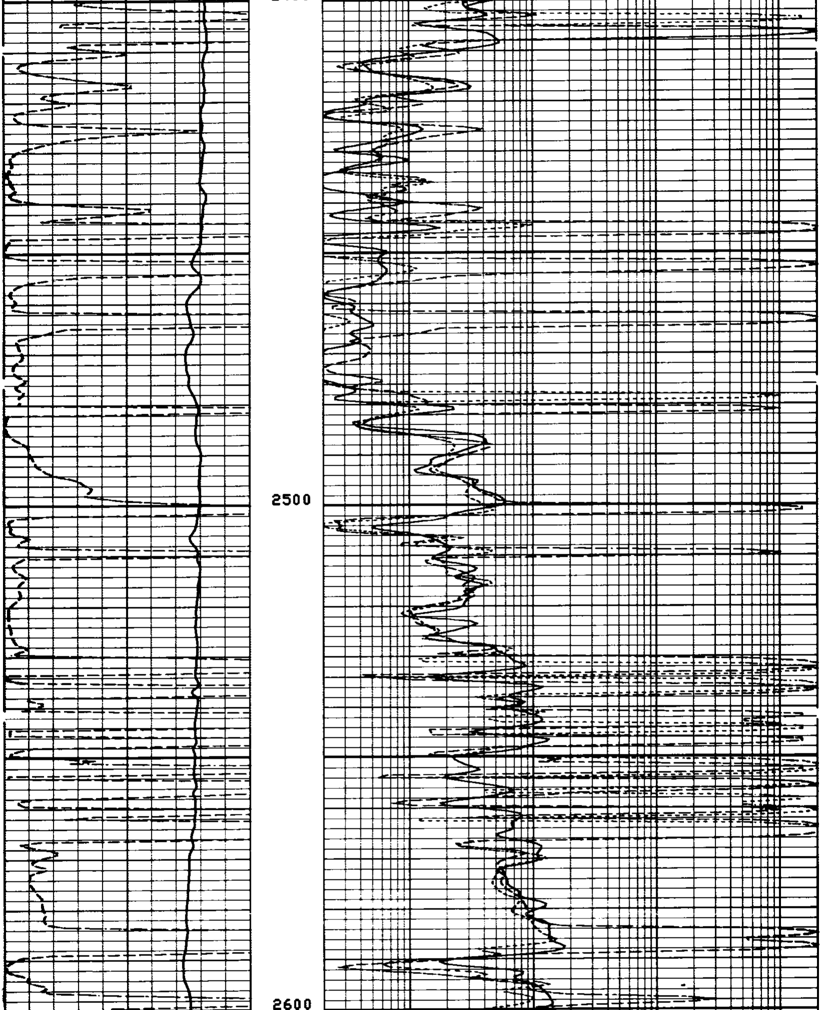
ILD (OHMM)
0.2000 2000.0
ILM (OHMM)
0.2000 2000.0
SFLU(OHMM)
0.2000 2000.0

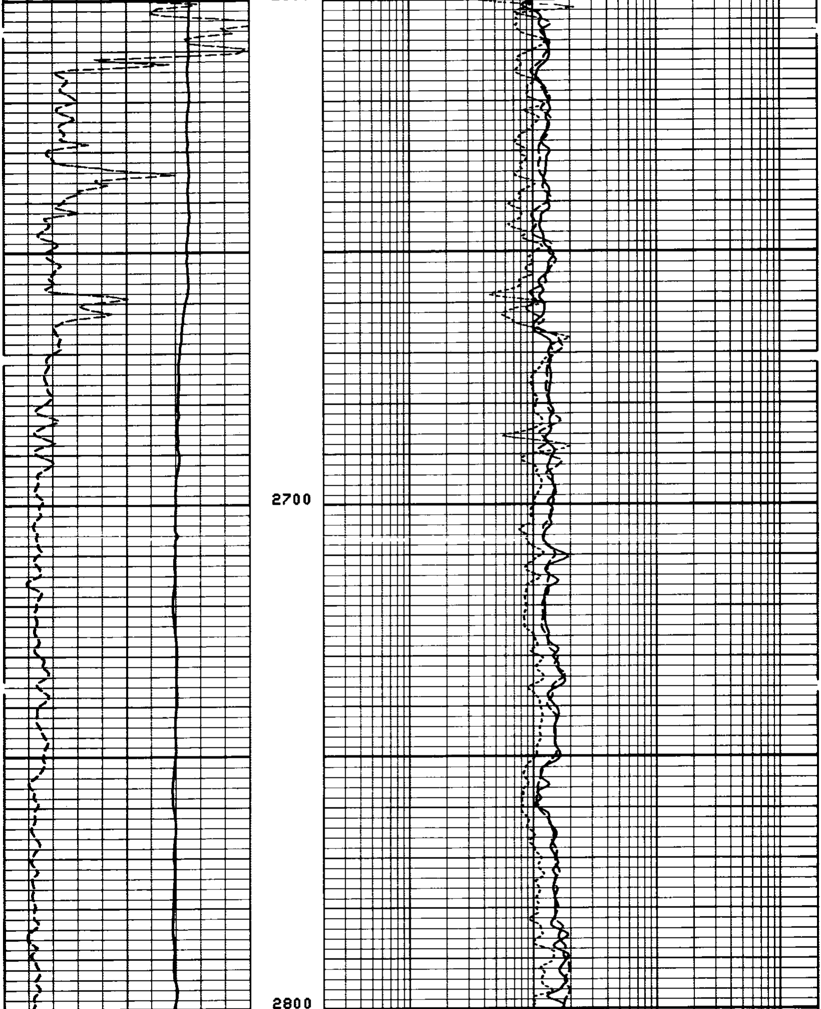
DETAIL LOG
5" = 100'

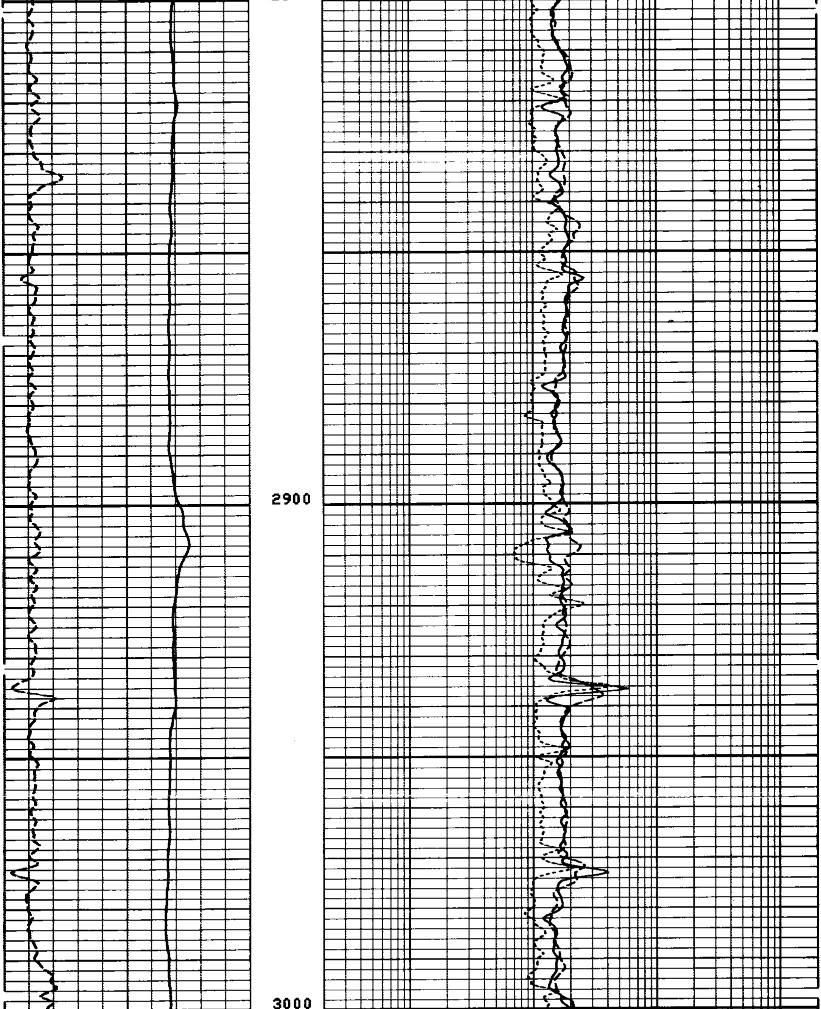
FILE

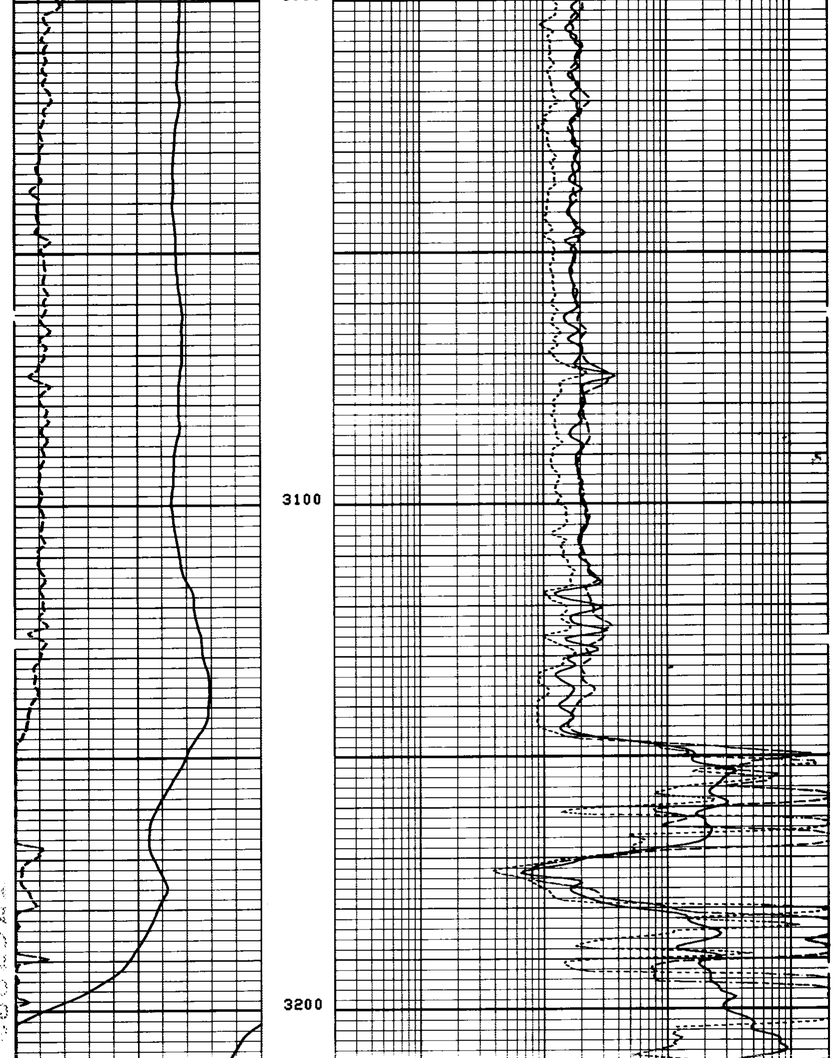


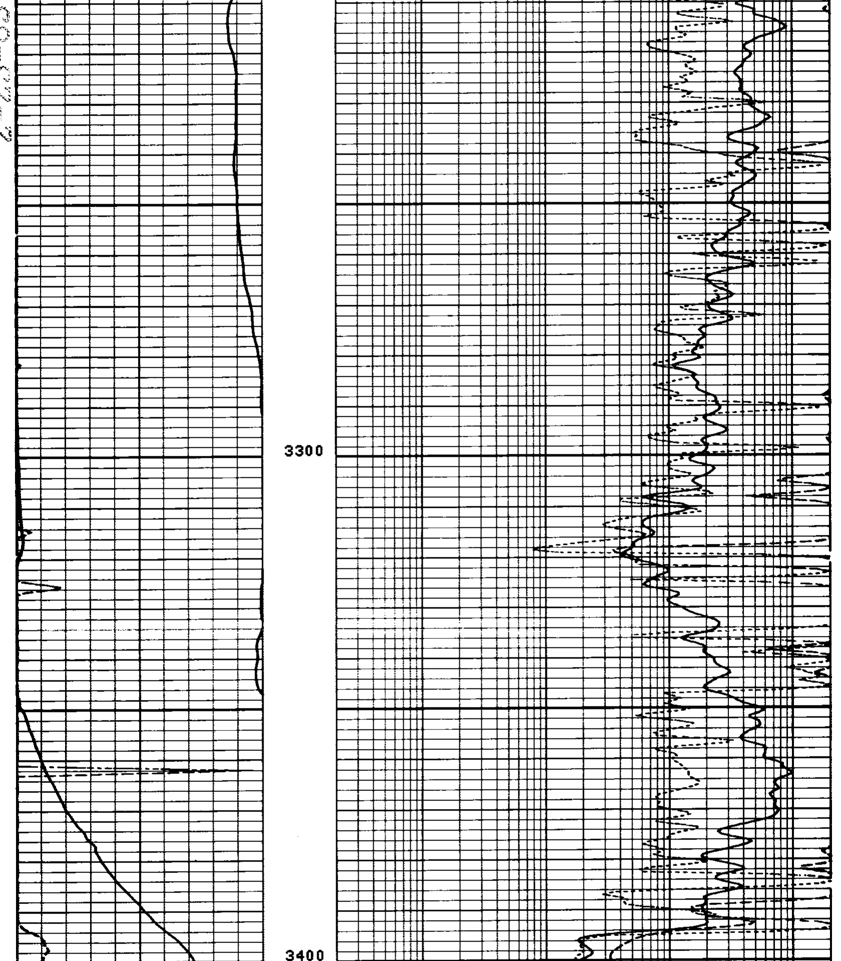


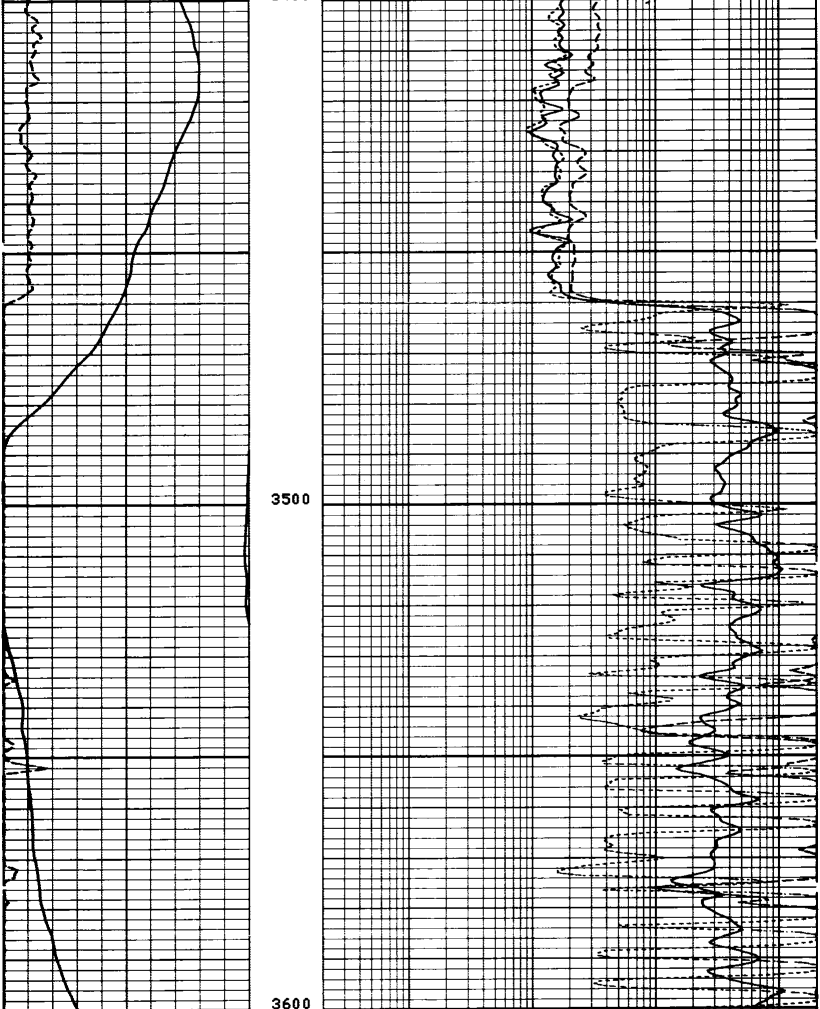


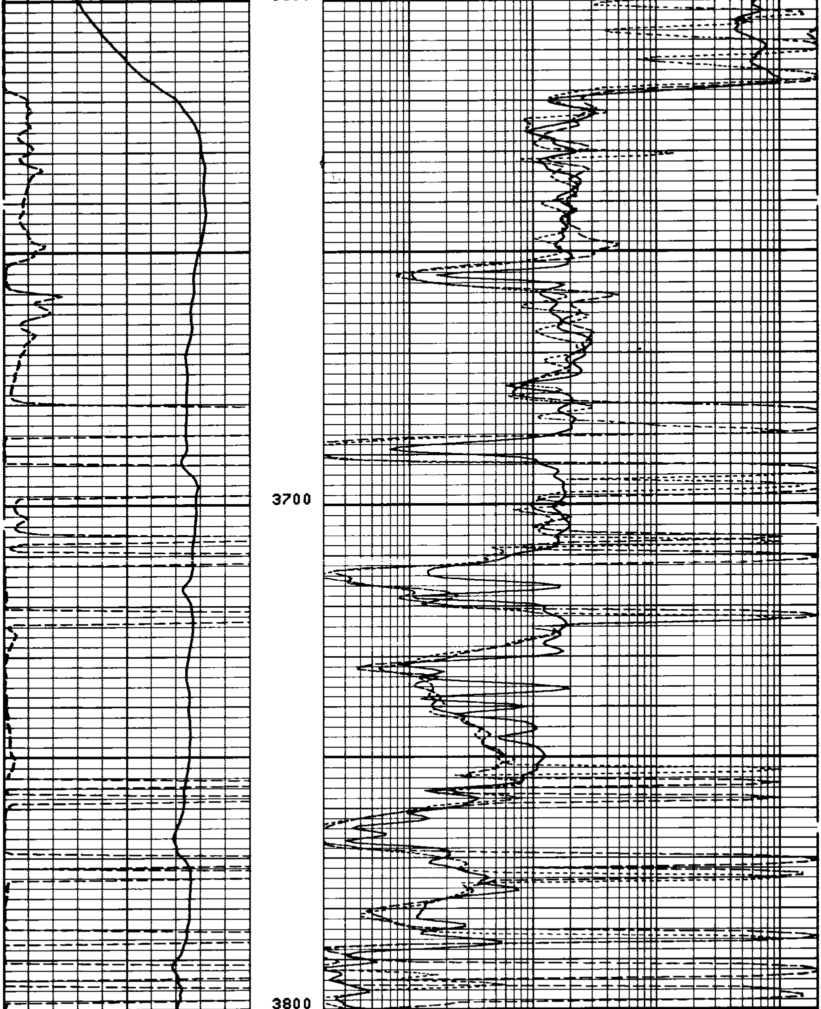


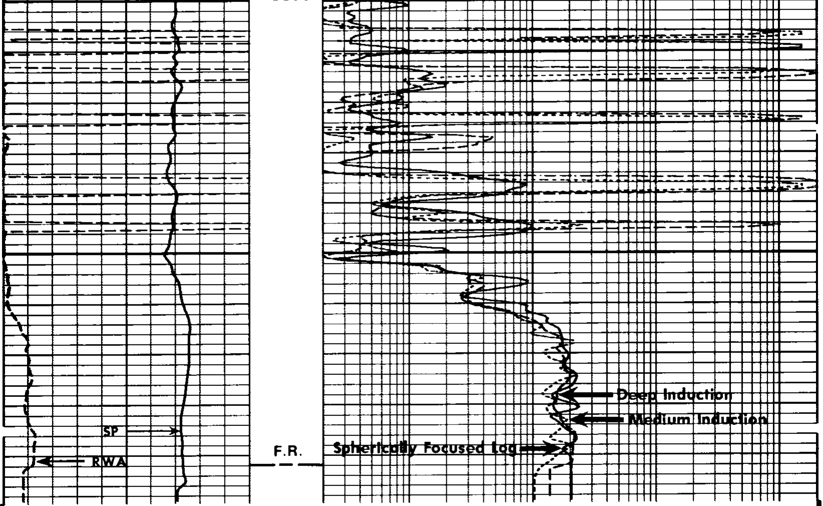












FILE

106

DETAIL LOG
5" = 100'

RWA (OHMM)
0.0 10.000
SP (MV)
-140.0 60.000

ILD (OHMM)
0.2000 2000.0
ILM (OHMM)
0.2000 2000.0
SFLU(OHMM)
0.2000 2000.0

SENSOR MEASURE POINT TO TENSION REFERENCE POINT

AMPL	45.4	FEET	DT	42.9	FEET
SRAT	42.9	FEET	CBL	45.4	FEET
CALI	33.3	FEET	TT	45.4	FEET
SFL	7.9	FEET	ILD	10.9	FEET
SP	4.0	FEET	ILM	7.3	FEET
TENS	.0	FEET	SPAR	4.0	FEET
NOIS	37.2	FEET			

PARAMETERS

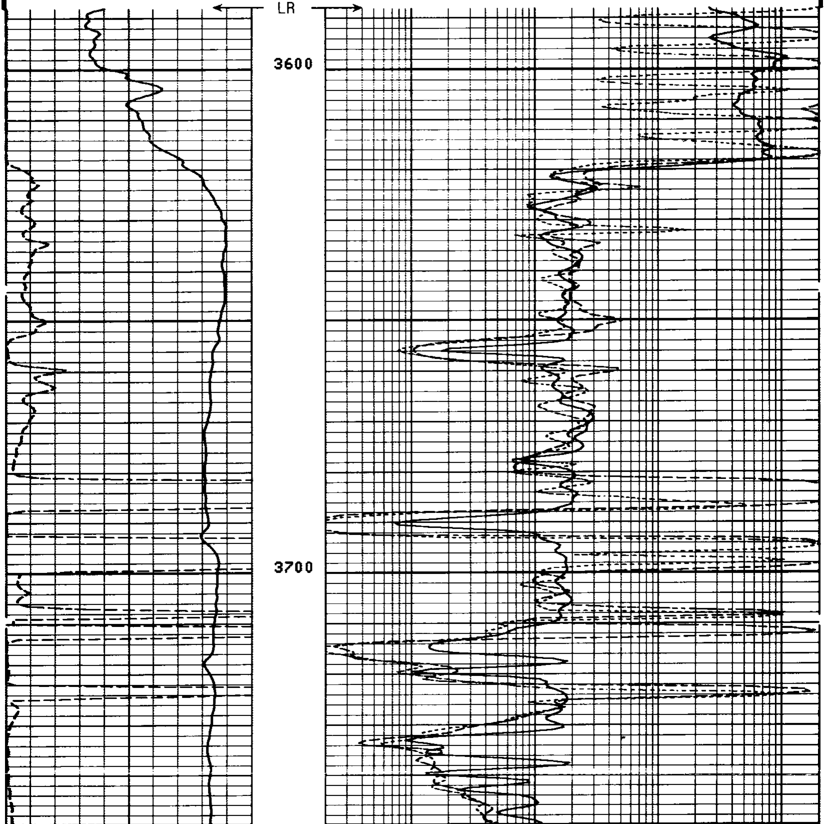
NAME	VALUE	UNIT	NAME	VALUE	UNIT
CDTS	100.000		BS	8.75000	IN
DTF	189.000	US/F	DTM	56.0000	US/F
SBR	1.00000	OHMM	DSEC	10.5000	MMHO
FPHI	SPHI		MSEC	8.50000	MMHO
DO	-2.00000	F	BHS	OPEN	

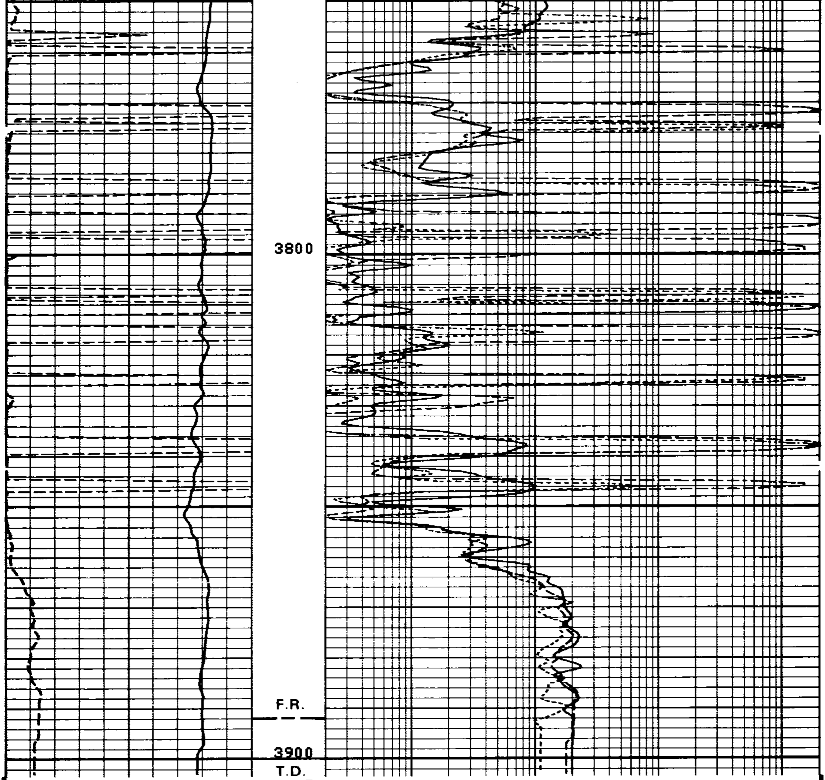
RWA (OHMM)
0.0 10.000
SP (MV)
-150.0 50.000

ILD (OHMM)
0.2000 2000.0
ILM (OHMM)
0.2000 2000.0
SFLU(OHMM)
0.2000 2000.0

REPEAT SECTION

FILE
105





FILE

105

REPEAT SECTION

RWA (OHMM)
0.0 10.000
SP (MV)
-150.0 50.000

ILD (OHMM)
0.2000 2000.0
ILM (OHMM)
0.2000 2000.0
SFLU(OHMM)
0.2000 2000.0

SENSOR MEASURE POINT TO TENSION REFERENCE POINT

AMPL	45.4	FEET	DT	42.9	FEET
SRAT	42.9	FEET	CBL	45.4	FEET
CALI	33.3	FEET	TT	45.4	FEET
SFL	7.9	FEET	ILD	10.9	FEET
SP	4.0	FEET	ILM	7.3	FEET
TENS	.0	FEET	SPAR	4.0	FEET
NOIS	37.2	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 10.5000   MMHO
        FPHI SPHI                               MSEC 8.50000   MMHO
        DO   -2.00000  F                        BHS  OPEN
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              AFTER SURVEY TOOL CHECK SUMMARY


  PERFORMED:      83/02/17
  PROGRAM FILE: ISN    (VERSION    22.4    82/09/01)


DITD                    TOOL  CHECK

                 ZERO                         PLUS
           BEFORE       AFTER           BEFORE      AFTER     UNITS
    ILD      0.0          0.1           495.2       492.0     MMHO
    ILM      0.0          0.3           500.0       495.2     MMHO
    SFL      0.0          0.2           500.0       502.3     MMHO

ILD  SONDE ERROR CORRECTION :        10.5 MMHO
ILM  SONDE ERROR CORRECTION :         8.5 MMHO
                          FILE

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              BEFORE SURVEY CALIBRATION SUMMARY


  PERFORMED:      83/02/17
  PROGRAM FILE: ISN    (VERSION    22.4    82/09/01)


DITD                ELECTRONICS CALIBRATION SUMMARY

              MEASURED                       CALIBRATED
          ZERO    PLUS                    ZERO       PLUS          UNITS
    ILD    4.3   556.2                     0.0      495.2           MMHO
    ILM    2.9   532.0                     0.0      500.0           MMHO
    SFL   -1.0   532.5                     0.0      500.0           MMHO

ILD  SONDE ERROR CORRECTION :        10.5 MMHO
ILM  SONDE ERROR CORRECTION :         8.5 MMHO


MCDB                CALIPER CALIBRATION SUMMARY

              MEASURED                       CALIBRATED
          SMALL   LARGE                   SMALL      LARGE         UNITS
  CALI     7.8    12.3                     8.0       12.0           IN
                          FILE

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               SHOP SUMMARY


  PERFORMED:      82/11/06
  PROGRAM FILE: SHOP   (VERSION    22.4    82/09/01)


DITD                ELECTRONICS CALIBRATION SUMMARY
```

```
                    TEST LOOP CALIBRATION                  TOOL CHECK
                MEASURED           CALIBRATED              CALIBRATED
              ZERO      PLUS      ZERO        PLUS       ZERO        PLUS    UNITS
      ILD     -8.0      542.8     0.0         500.0      0.0         495.5   MMHO
      ILM     -6.3      522.1     0.0         500.0     -0.0         500.0   MMHO
   ILD  SONDE ERROR CORRECTION :           10.5 MMHO
   ILM  SONDE ERROR CORRECTION :            8.5 MMHO

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

CALIBRATION RECORD

COMPANY OREGON NATURAL GAS DEVELOPMENT CORP.

WELL PATTON 32-9 RD#1

FIELD OLNEY

COUNTY CLATSOP STATE OREGON

SCHL. FR 3892.0'
SCHL. TD 3900.0'
DRLR. TD 3917.0'

Elev: KB 752.0'
DF N/A
GL 731.0'