ATLAS WIRELINE SERVICES

VERTILOG®

FILE NO.

API NO.

5" = 100'

COMPANY OREGON NATURAL GAS CORP
WELL IW 220-10
FIELD MIST
COUNTY COLUMBIA STATE OR.

LOCATION:
285' N. & 2516' E. OF W/4 CORNER
SEC 10 TWP 6N RGE 5W

OTHER SERVICES
PHOTON

PERMANENT DATUM GL ELEV. 787.3'
LOGGING MEASURED FROM KB 11.5' FT. ABOVE P.D.
DRILLING MEASURED FROM KB

ELEVATIONS
KB 798.8'
DF -
GL 787.3'

DATE	8/30/88		
RUN	1		
SERVICE ORDER	159046		
DEPTH-DRILLER	1870'		
DEPTH-LOGGER	1867'		
BOTTOM LOGGED INTERVAL	1864'		
TOP LOGGED INTERVAL	0'		
TYPE FLUID IN HOLE	WATER		
SALINITY PPM CL.	--		
DENSITY LB/GAL.	--		
LEVEL	FULL		
MAX. REC. TEMP. DEG. F	--		
OPR. RIG TIME	1 HR		
EQUIP. NO. / LOC.	HL 6406	SACRAMENTO	
RECORDED BY	B. WELCH		
WITNESSED BY	MR. THOMAS		

CONFIDENTIAL/FINAL.

BOREHOLE RECORD

NO.	BIT	FROM	TO

FOLD HERE

IN MAKING INTERPRETATIONS OF LOGS OUR EMPLOYEES WILL GIVE CUSTOMER THE BENEFIT OF THEIR BEST JUDGEMENT, BUT SINCE ALL INTERPRETATIONS ARE OPINIONS BASED ON INFERENCES FROM ELECTRICAL OR OTHER MEASURMENTS, WE CANNOT, AND WE DO NOT GUARANTEE THE ACCURACY OR CORRECTNESS OF ANY INTERPRETATION. WE SHALL NOT BE LIABLE OR RESPONSIBLE FOR ANY LOSS, COST, DAMAGES, OR EXPENSES WHATSOEVER INCURRED OR SUSTAINED BY THE CUSTOMER RESULTING FROM ANY INTERPRETATION MADE BY ANY OF OUR EMPLOYEES.

Western Atlas International
A Litton/Dresser Company

ATLAS WIRELINE SERVICES

CASING RECORD

SIZE	WGT	FROM	TO
13 3/8"	?	SURF.	452'
8 5/8"	32	SURF.	2100' K55
5 1/2"		2040'	2153'
5 1/2"	17	SURF	1876'

REMARKS RUN (1)

G001 REV 10/87 USED FOR DATA ACQ
SURF COMMAND INPUT AT 451'

EQUIPMENT DATA

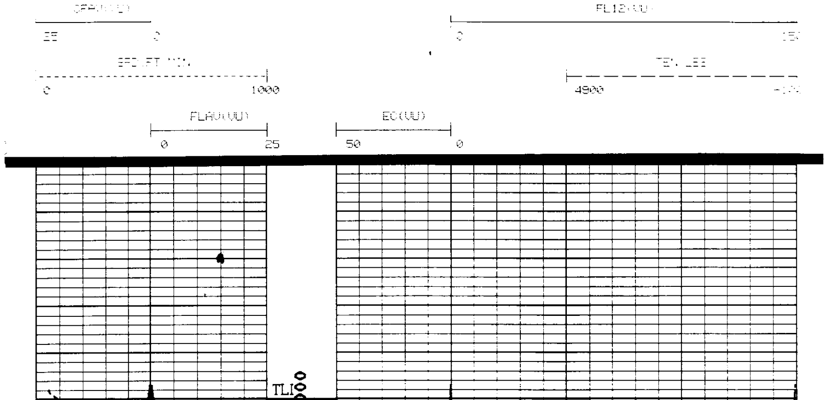
RUN	TRIP	TOOL	SERIAL NO.	SERIES NO.	POSITION
1	1	VRT			

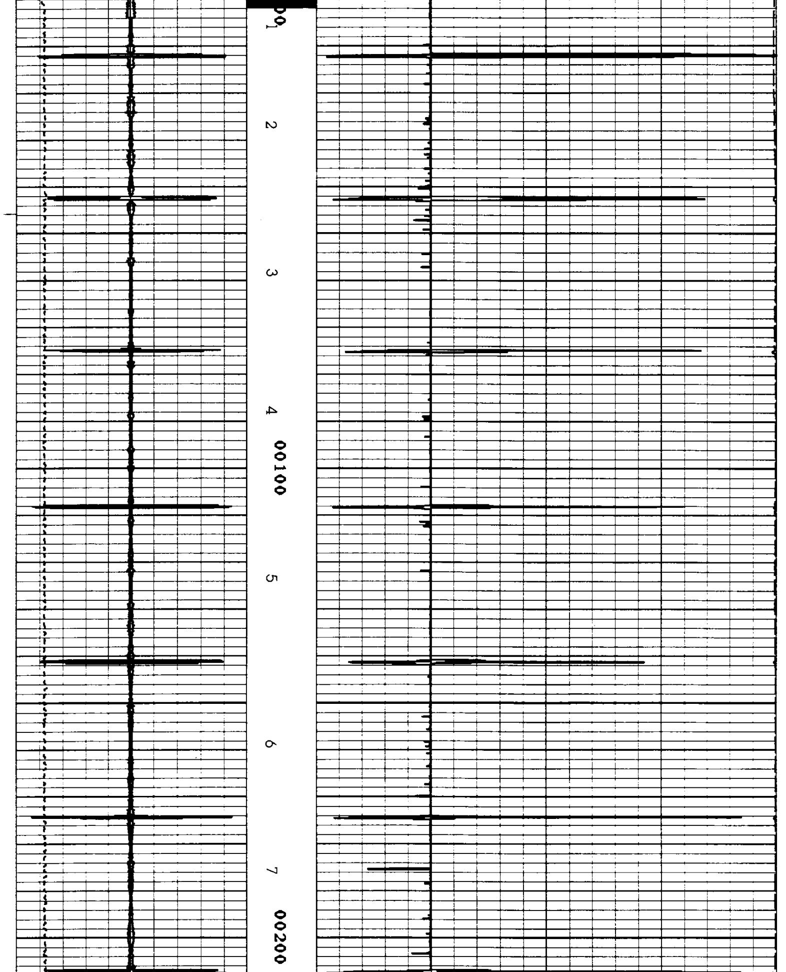
PARAMETERS

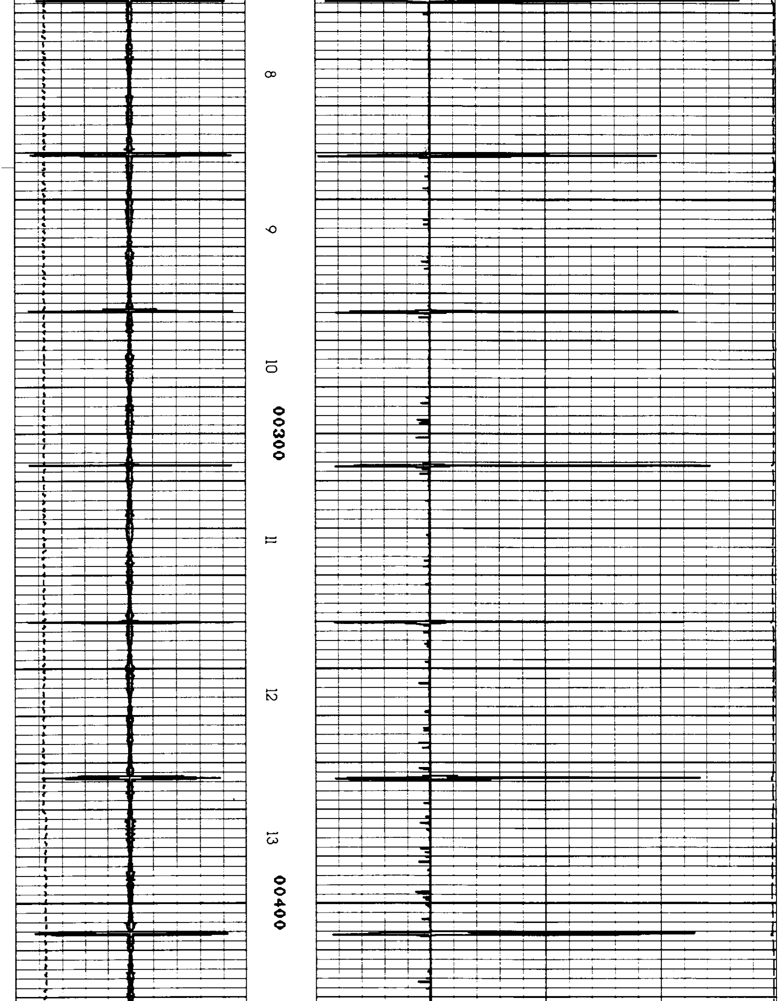
*** NONE ***
DISPLAY SCALE CHANGES

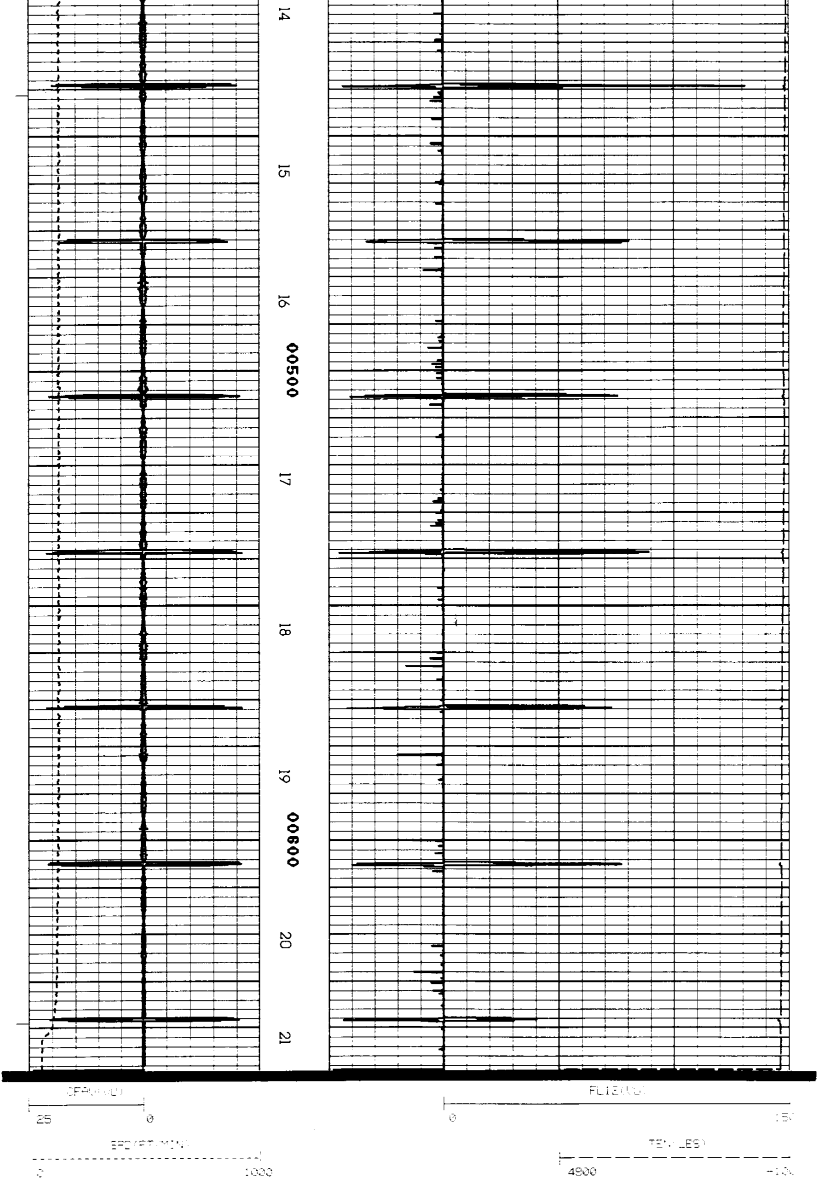
*** NONE ***

COMPANY: OREGON NATURAL GAS CORP RUN: 1
WELL NAME: IW 22D-10 TRIP: 1
SERVICE: KC452A FILE: 2 DATE: 9/ 1/88 TIME: 13:56:41
REVISION: FSYSAL REV 3508 VER+2 MODE: PLAYBACK









FLAV(VU)
0 25

EC(VU)
50 0

PARAMETERS

*** NONE ***
DISPLAY SCALE CHANGES

*** NONE ***

COMPANY: OREGON NATURAL GAS CORP
WELL NAME: IW 22D-10
SERVICE: KC452A FILE: 1 DATE: 9/ 1/88
REVISION: FSYSAL REV GS08 VER+2

RUN: 1
TRIP: 1
TIME: 13:41:27
MODE: PLAYBACK

CFAV(VU)
25 0

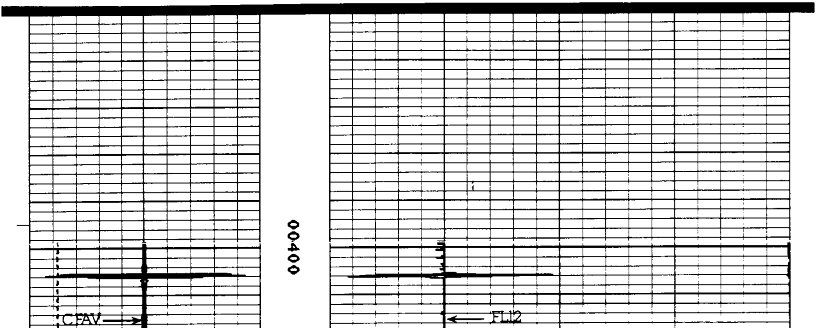
FL12(VU)
0 150

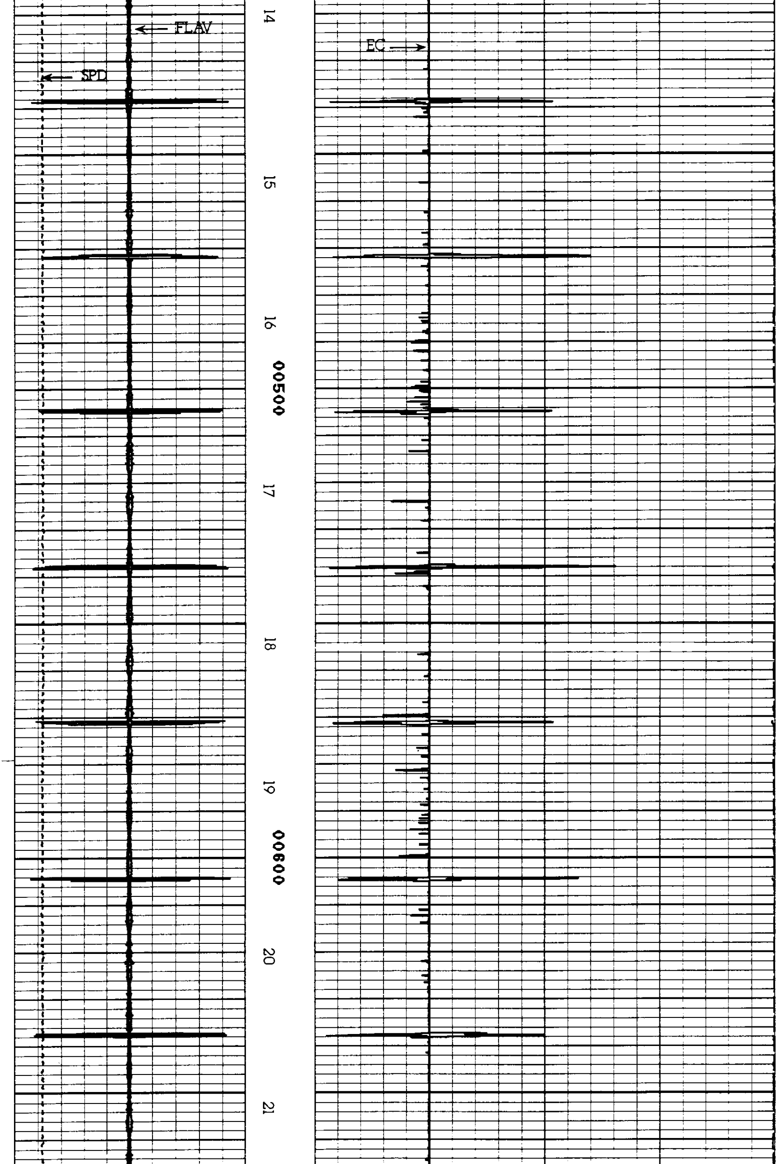
SPD(FT/MIN)
0 1000

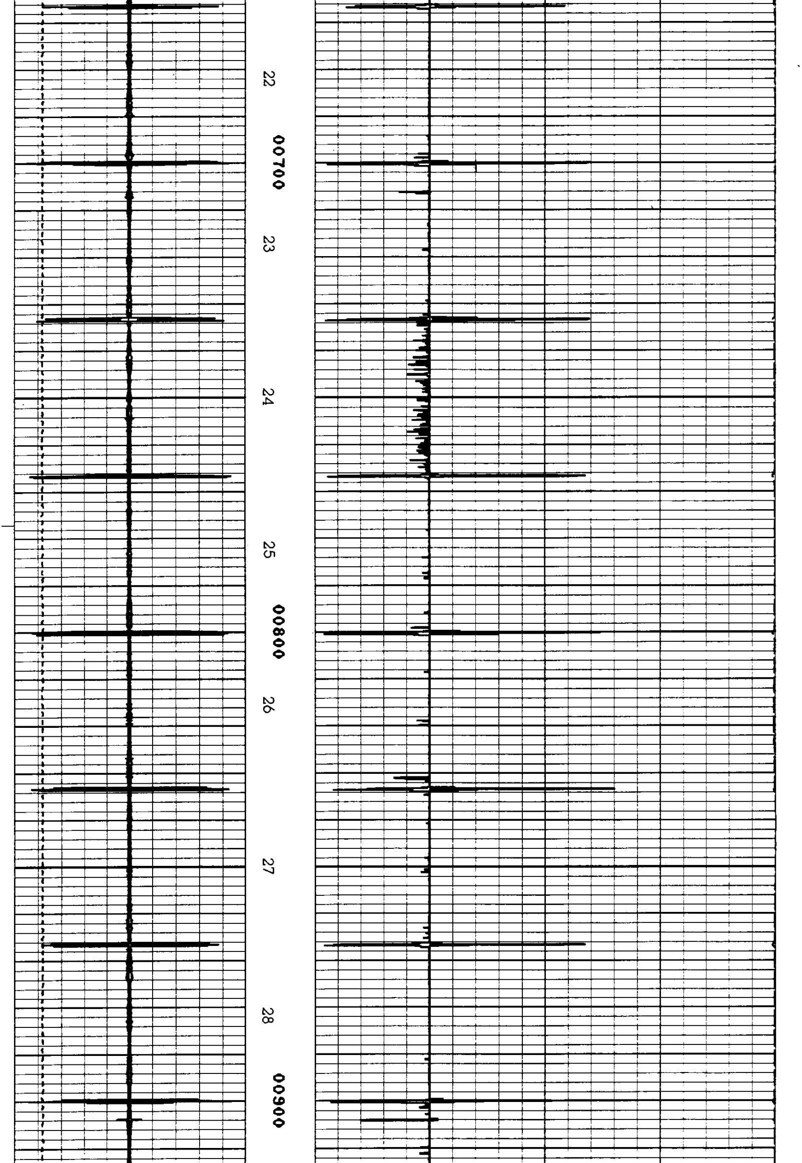
TEN(LBS)
4900 -100

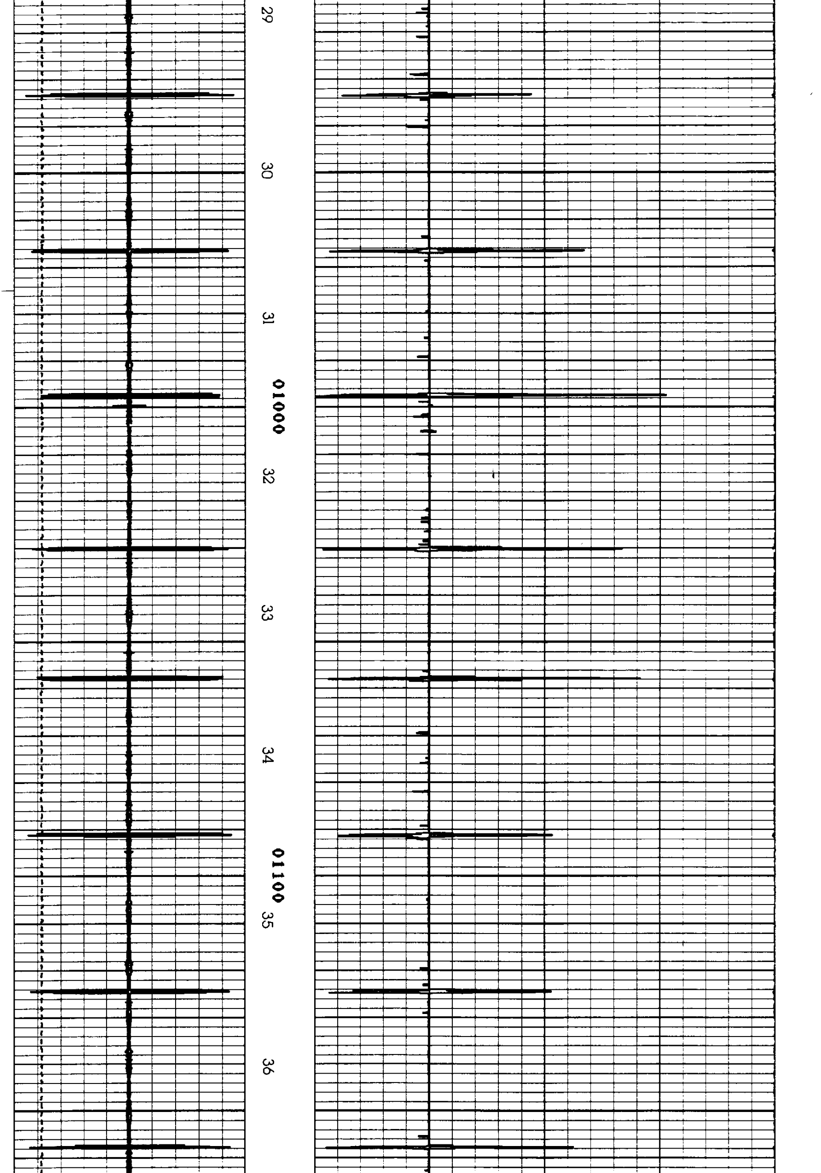
FLAV(VU)
0 25

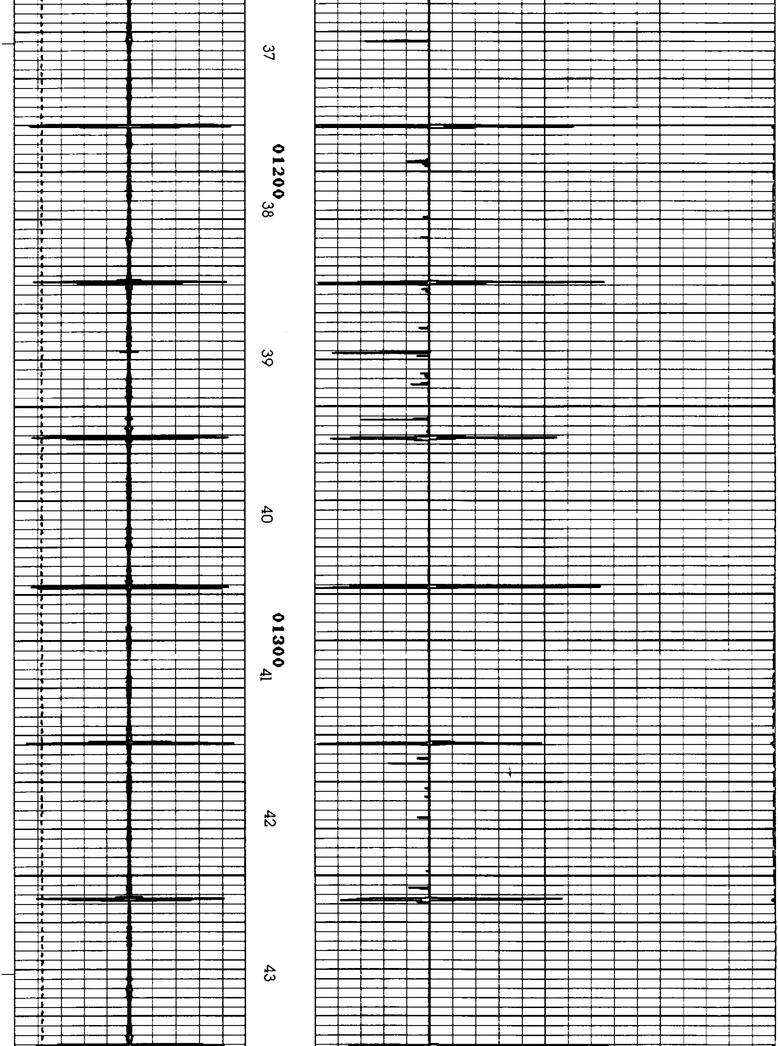
EC(VU)
50 0

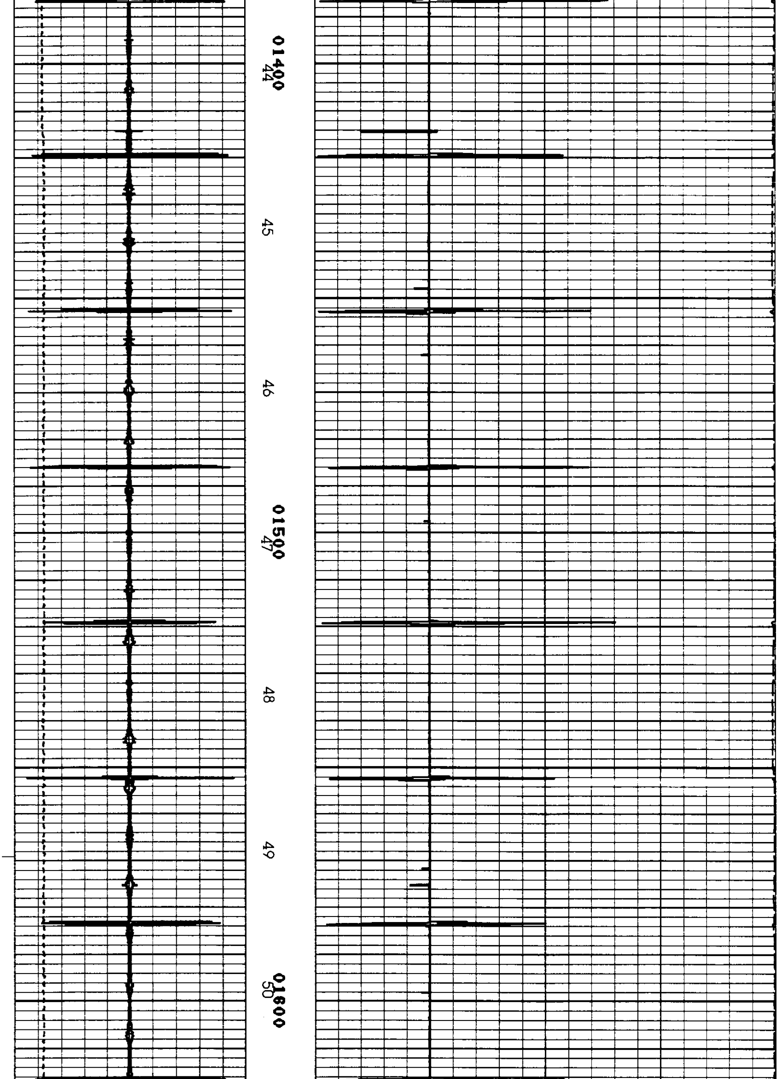


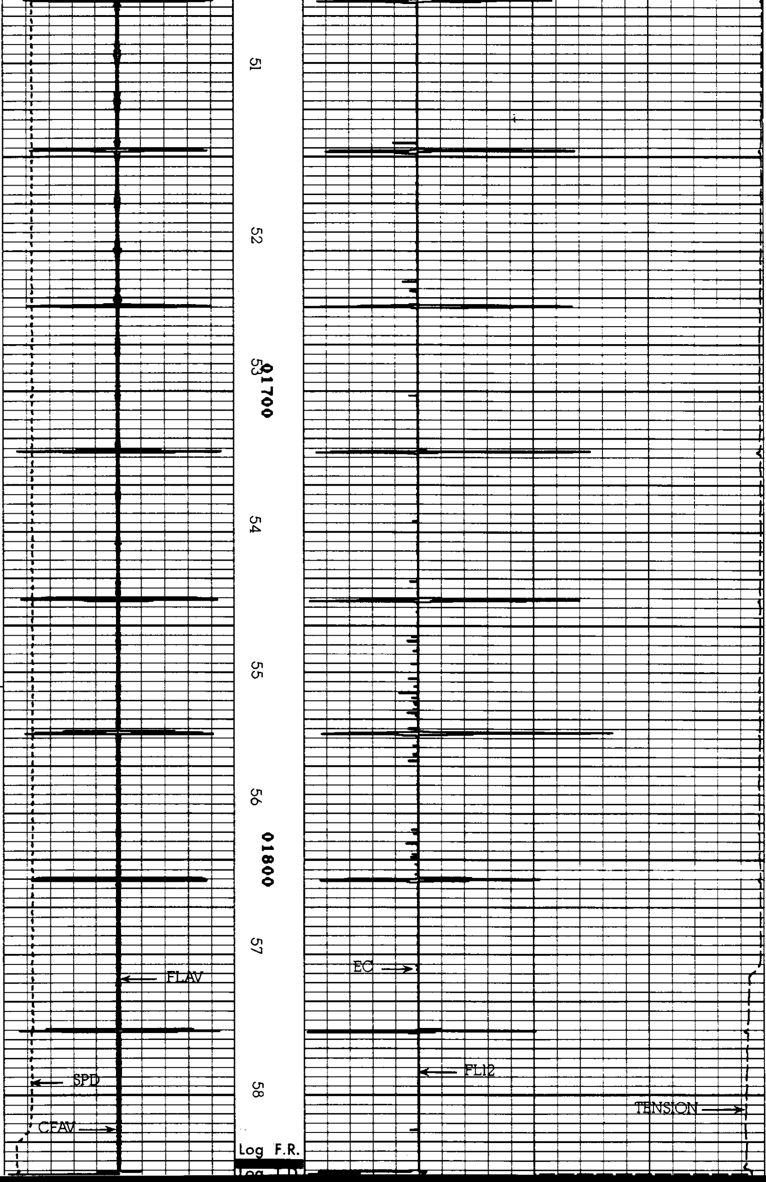


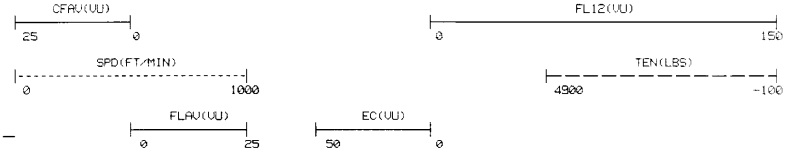












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         *****************************************
         *                                       *
         *         CALIBRATION SUMMARY           *
         *  DATE 09/01/88         TIME 14:08:09  *
         *  RUN   1               TRIP  1        *
         *                                       *
         *****************************************



         LOG NAME VRT     ASSET NO. 5.5 OD   UNIT NO. HL 6406
     CALIBRATION ENTERED ON  09/01/88 AT 11:39:16          2905
                         PIPE O.D.  =  5.5 A¥

   CURVE   MILLIVOLTS     SCALING FACTORS    ENGINEERING VALUES   UNIT
             LOW    HIGH   ADD.     MULT.      LOW        HIGH
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        DATE 08/01/88        CALIBRATION        TIME 12:06:52

   FL1          3.   1010.   0.000    0.0732     0.029     10.102 VU
   FL2       -216.    997.   0.000    0.0732    -2.159      9.972 VU
   EC          34.   1988.   0.000    0.0366     0.172      9.938 VU
   FLAV         5.    165.   0.000    0.0484     0.106      3.279 VU

        DATE 08/01/88        CHANNEL SUMMARY    TIME 12:06:52

 CH. NO.           FL1 (MV)        FL2 (MV)        EC (MV)        FLAV (MV)
   1                 972.          E              2114.             172.
   2                1037.          E              1843.             155.
   3                1010.          E              2076.             169.
   7                1019.          E              1848.             162.
   8                 981.          E              1849.             165.
   9                1042.          E              2083.             169.
   13               E              1063.          2167.            E
   14               E               963.          1938.            E
   15               E               978.          1883.            E
   19               E              1006.          1916.            E
   20               E               993.          1943.            E
   21               E               981.          2192.            E

                        AFTER LOG VERIFICATION          NOT DONE

                           CHANNEL SUMMARY              NOT DONE
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