Western Atlas International

ATLAS WIRELINE SERVICES

VERTILOG®

FILE NO. 1010
API NO. 36-009-00269

5" = 100'

COMPANY NORTHWEST NATURAL GAS COMPANY
WELL I. W. 23d - 3
FIELD MIST
COUNTY COLUMBIA STATE OREGON

LOCATION:
2475.11' EAST & 299.39' SOUTH
FROM THE WEST 1/4 CORNER OF:
SEC 3 TWP 6N RGE 5W

OTHER SERVICES
ACBL-GR-CCL

PERMANENT DATUM GROUND LEVEL ELEV. 1187.8
LOGGING MEASURED FROM K. B. 11.4 FT. ABOVE P.D.
DRILLING MEASURED FROM K. B.

ELEVATIONS
KB 1199.25'
DF ---
GL 1187.85'

DATE	19-OCT-91	
RUN	1	
SERVICE ORDER	66916	
DEPTH-DRILLER	2715'	
DEPTH-LOGGER	2704'	
BOTTOM LOGGED INTERVAL	2699'	
TOP LOGGED INTERVAL	12'	
TYPE FLUID IN HOLE	GEL/POLYMER	
SALINITY PPM CL.	---	
DENSITY LB/GAL.	9.6+	
LEVEL	FULL	
MAX. REC. TEMP. DEG. F	101 F	
OPR. RIG TIME	1 1/2 HRS.	
EQUIP. NO. / LOC.	HL 6399 BAKRSFLD	
RECORDED BY	TORGERSON	
WITNESSED BY	TODD THOMAS	

FINAL PRINT

BOREHOLE RECORD

NO.	BIT	FROM	TO
2	17 1/2"	30'	697'
3	12 1/4"	684'	2730'

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 MEASUREMENTS, 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.

CASING RECORD

SIZE	WGT	FROM	TO
20"		SURF.	30'
13 3/8"	54.5	SURF.	684'
8 5/8"	32	SURF.	2715'

REMARKS RUN (1)

TAYLOR RIG NO. 4
BHT 101 F & 101 F
PIPE GRADE H-40 CHART NUMBERS USED FOR INTEPRETATION 86 HIE
CLASS 2 = 21-40%
CLASS 3 = 41-60%
CLASS 4 = 61-80%
CLASS 4PP = POSSIBLE PENETRATION

EQUIPMENT DATA

RUN	TRIP	TOOL	SERIAL NO.	SERIES NO.	POSITION
1	1	VRT	55001	2907XA	CENTRALIZED

5" = 100'

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FILE: 4

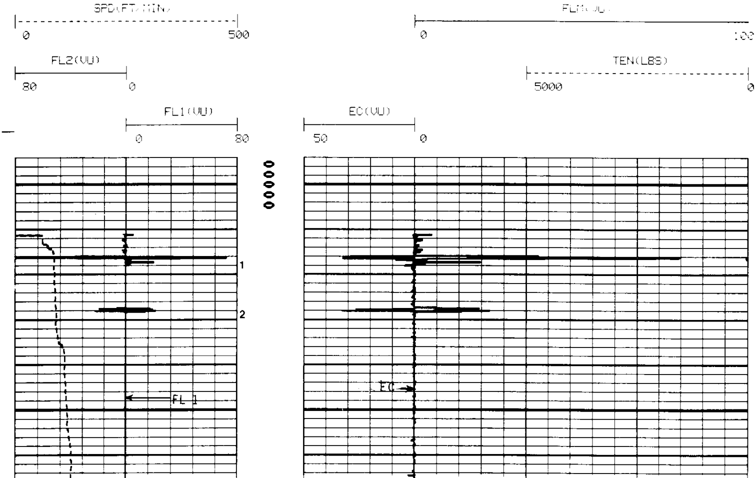
PARAMETERS

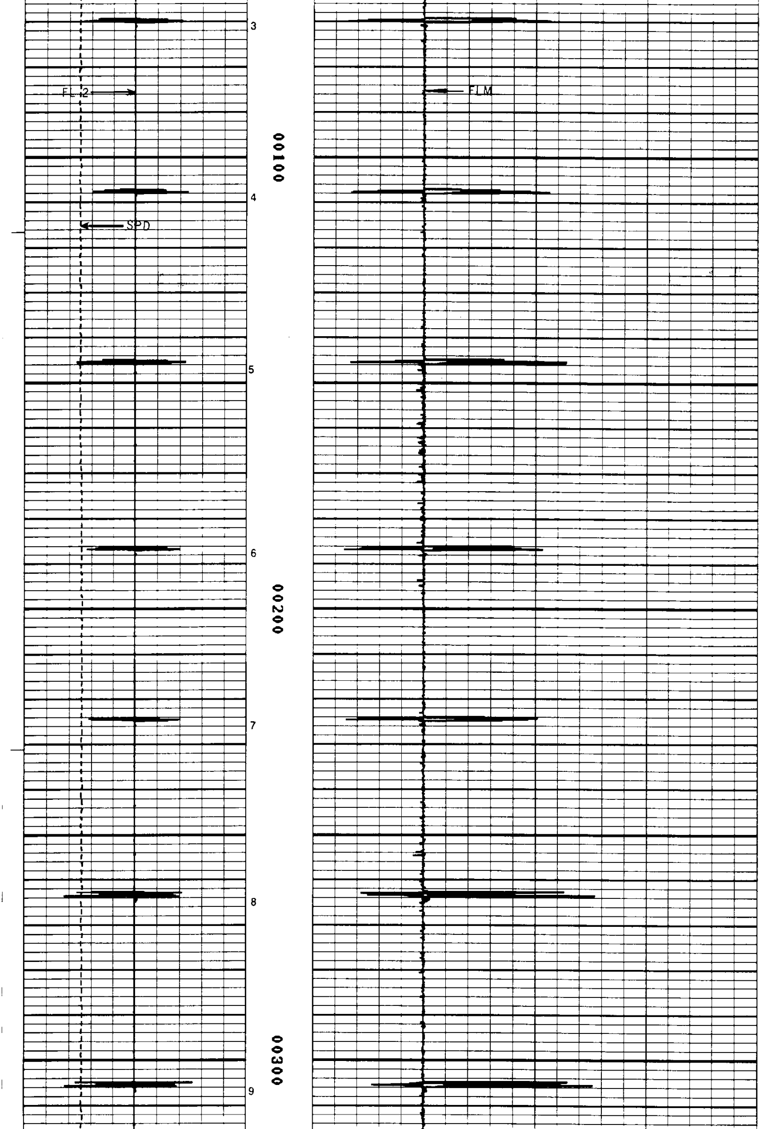
*** NONE ***

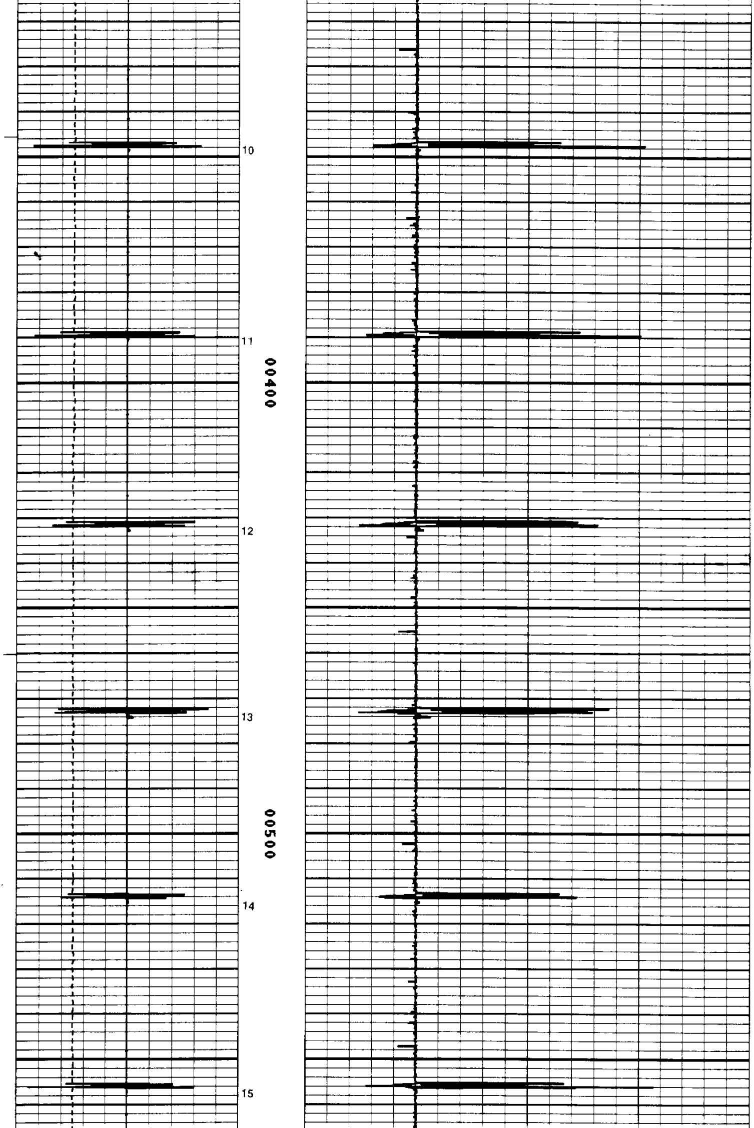
DISPLAY SCALE CHANGES

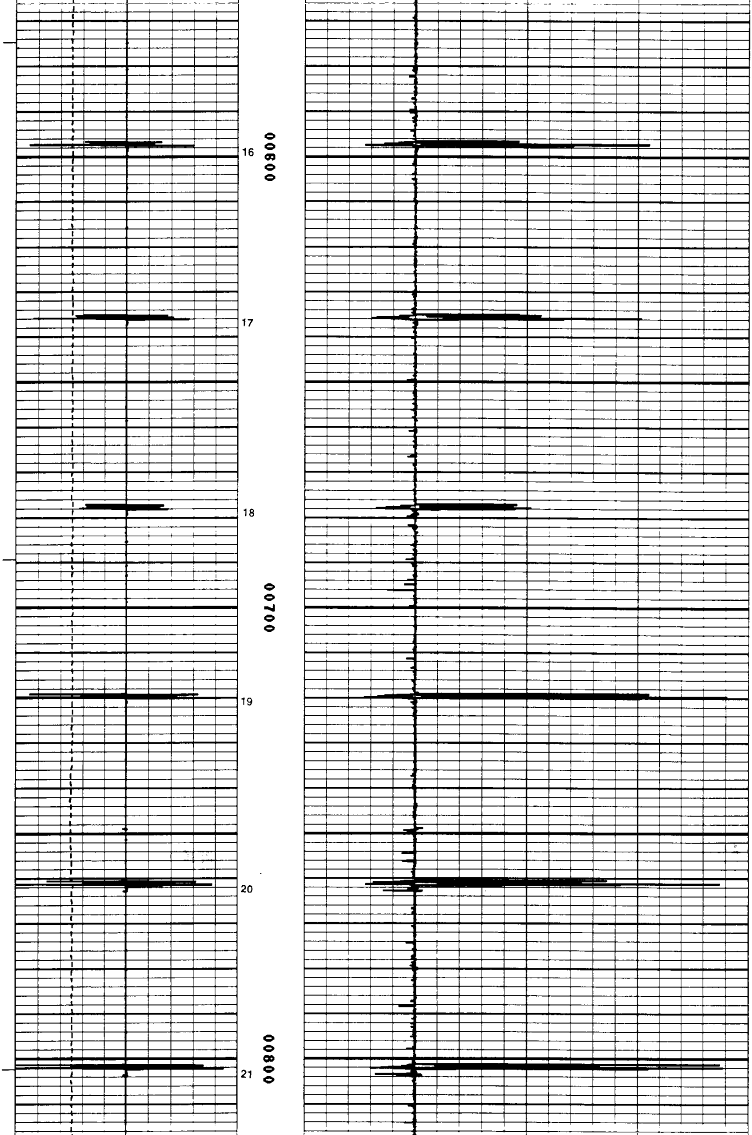
*** NONE ***

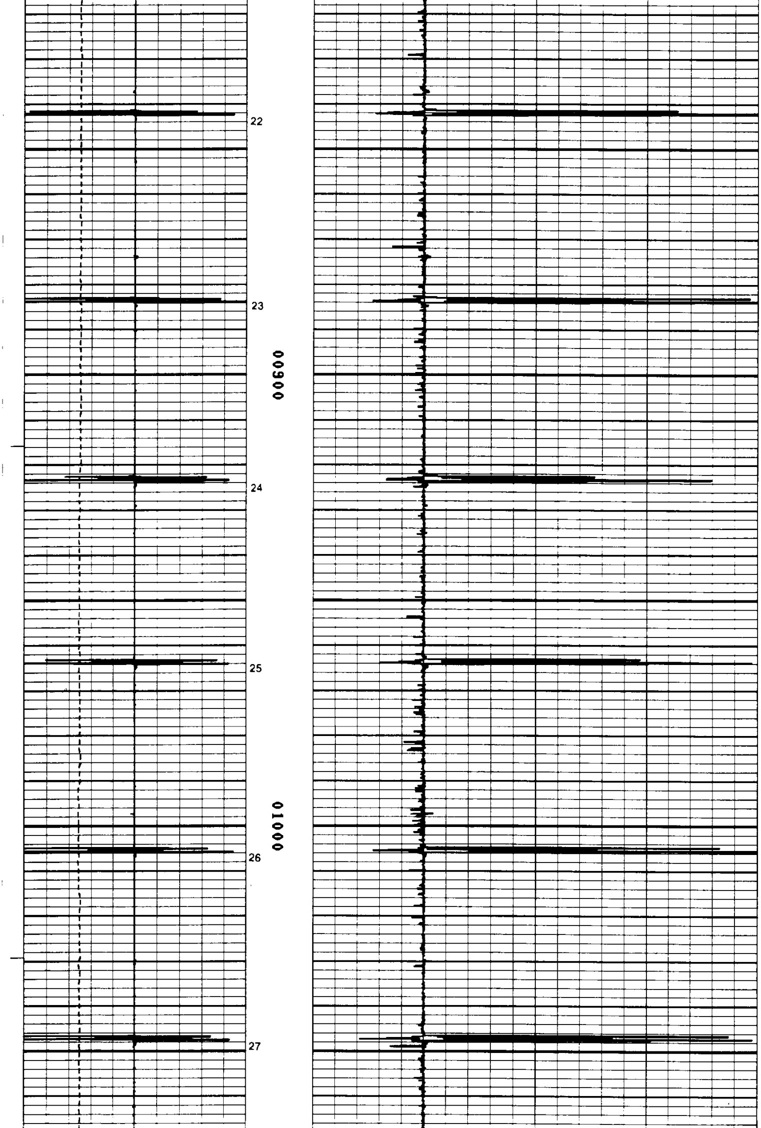
COMPANY: NORTHWEST NATURAL GAS COMPANY
RUN: 1
WELL NAME: I. W. 23d - 3
TRIP: 1
SERVICE: G2V003
FILE: 4
DATE: 10/19/81
TIME: 18:03:21
REVISION: FE 3352 FE 13002 VER:2.0
MODE: PLAYBACK

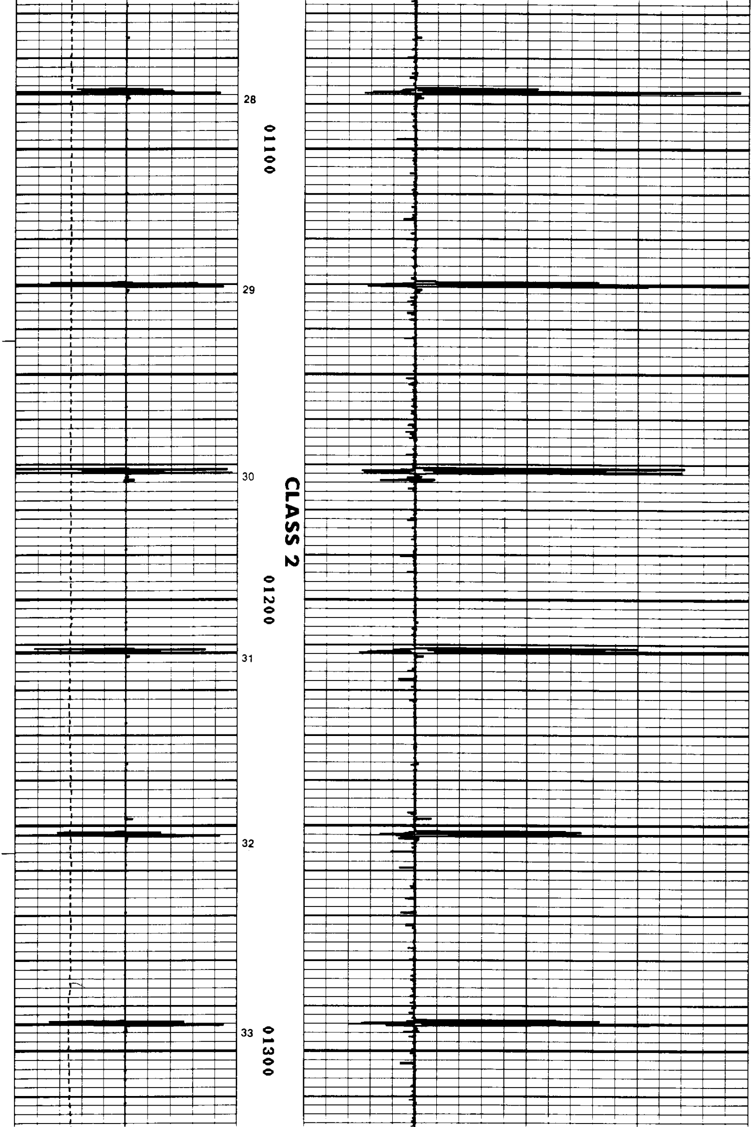


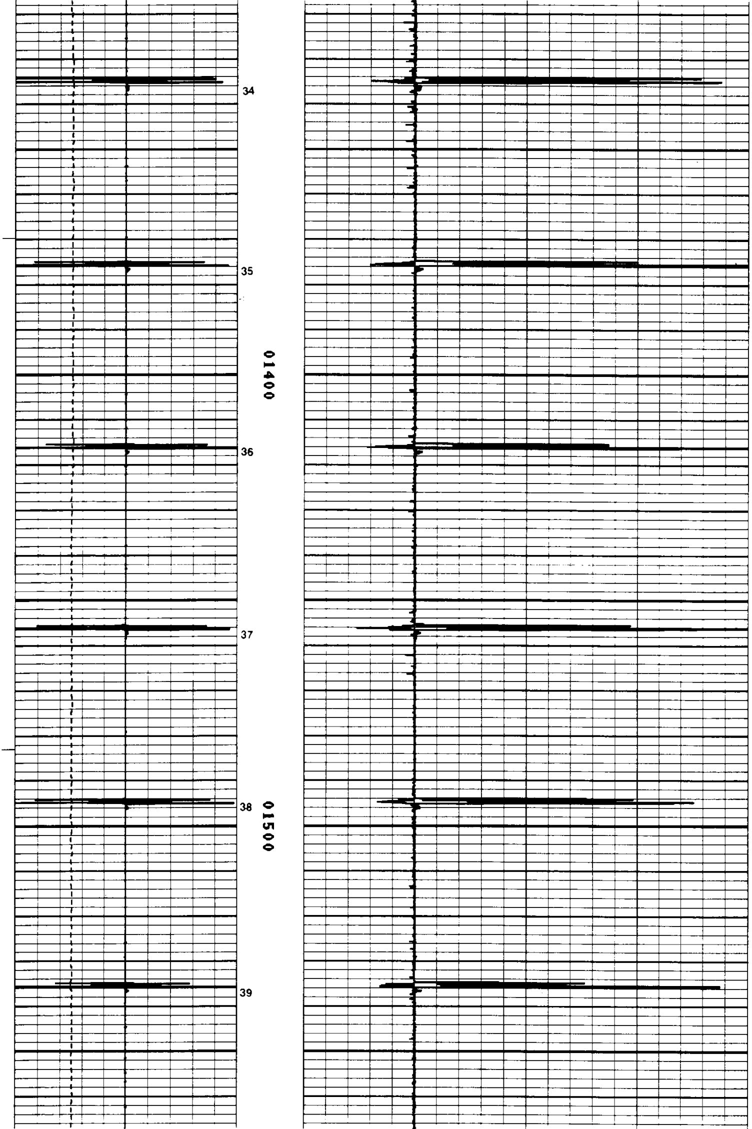


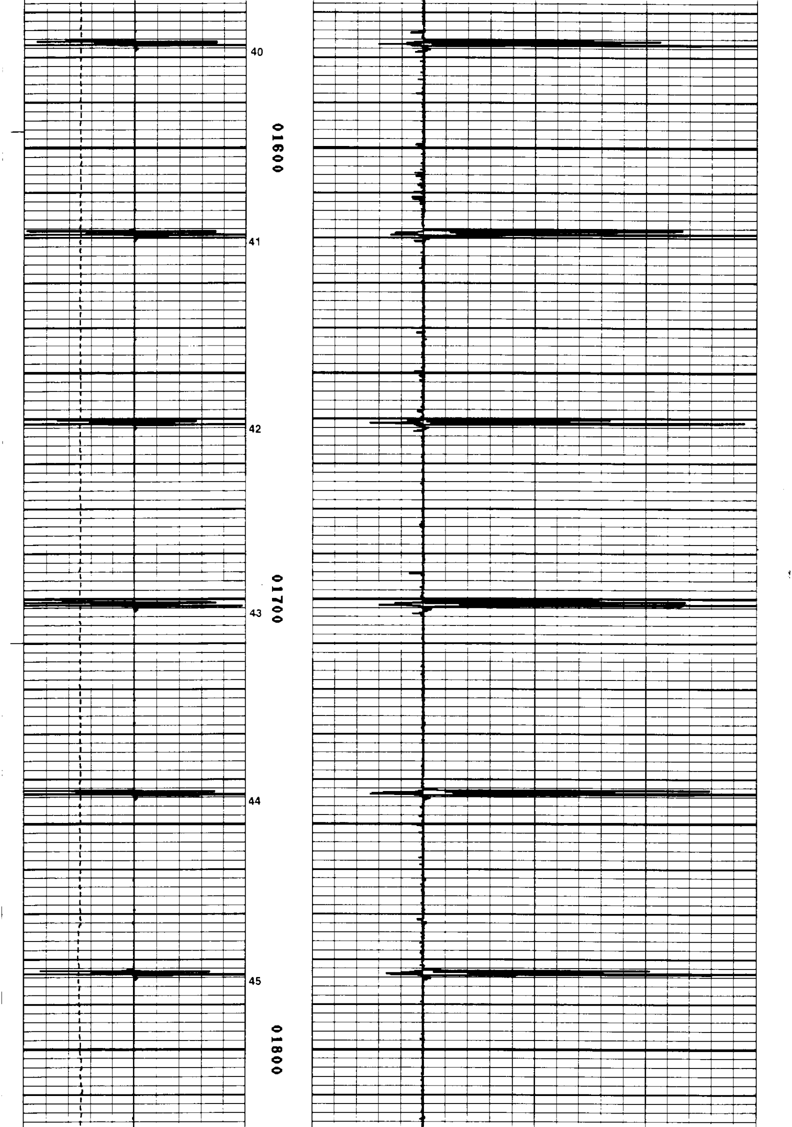


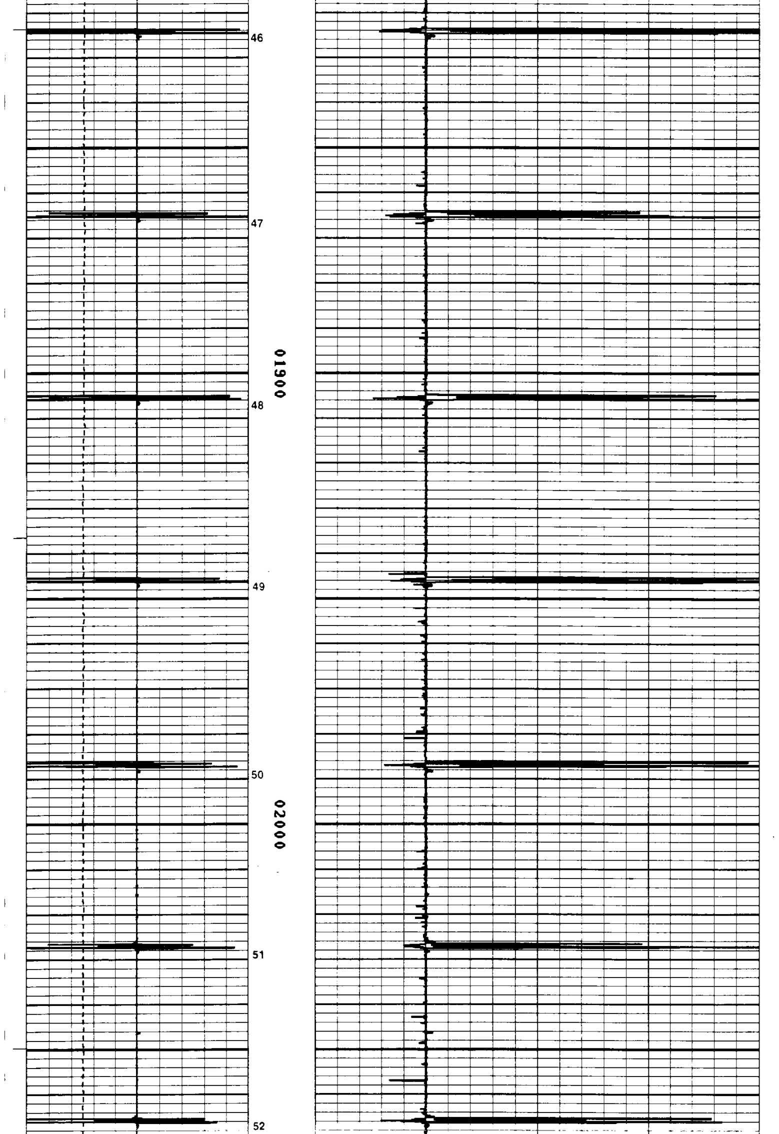


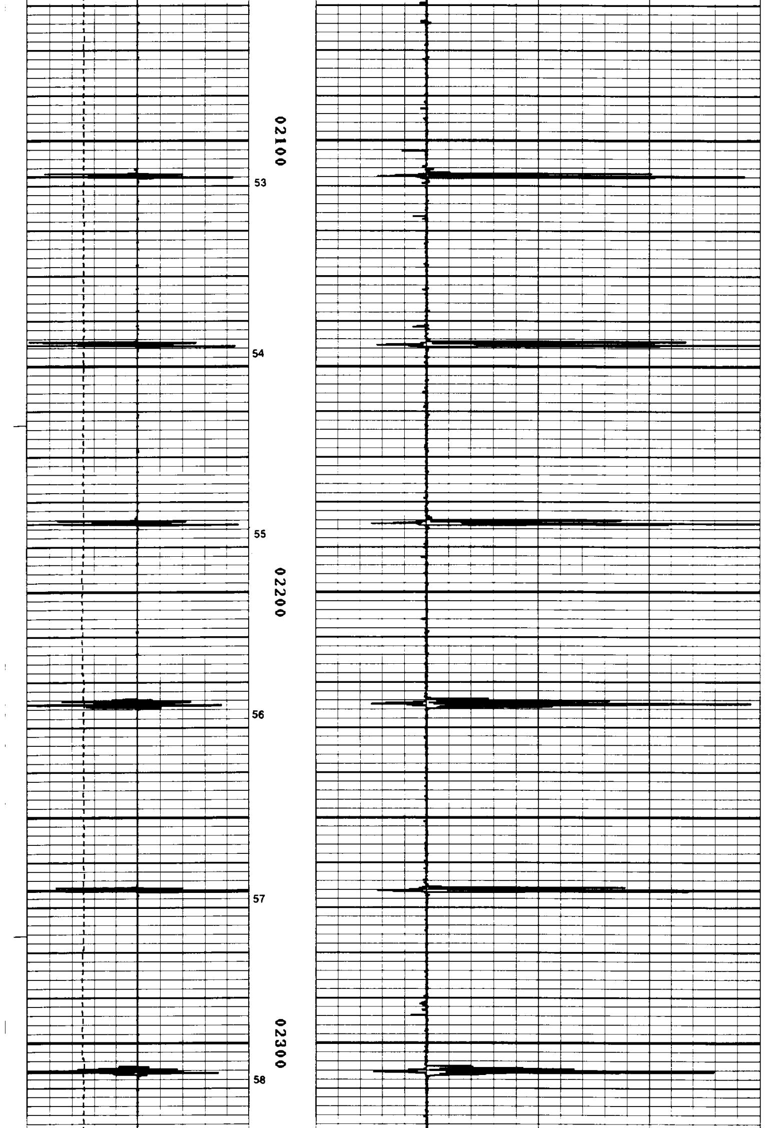


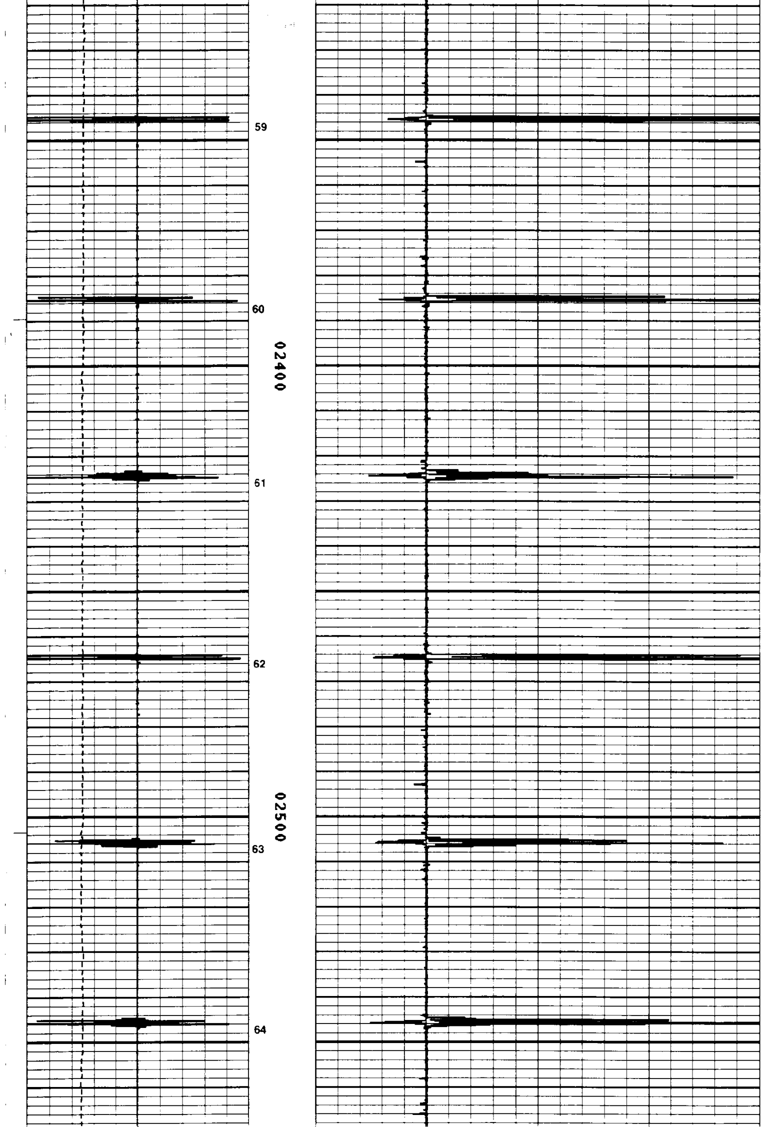


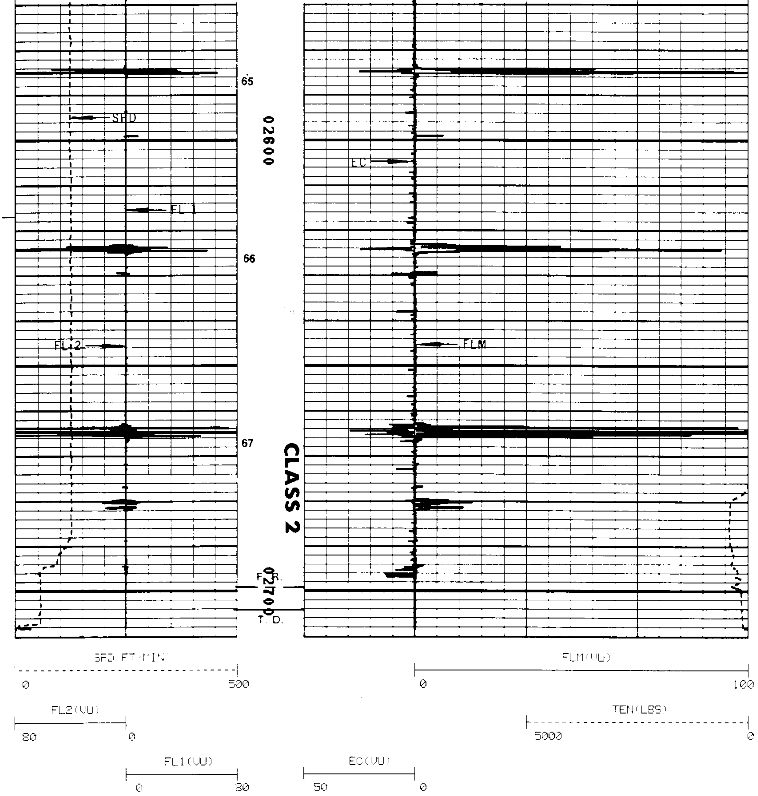












FILE: 4

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REPEAT SECTION

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FILE: 3

PARAMETERS

*** NONE ***

DISPLAY SCALE CHANGES

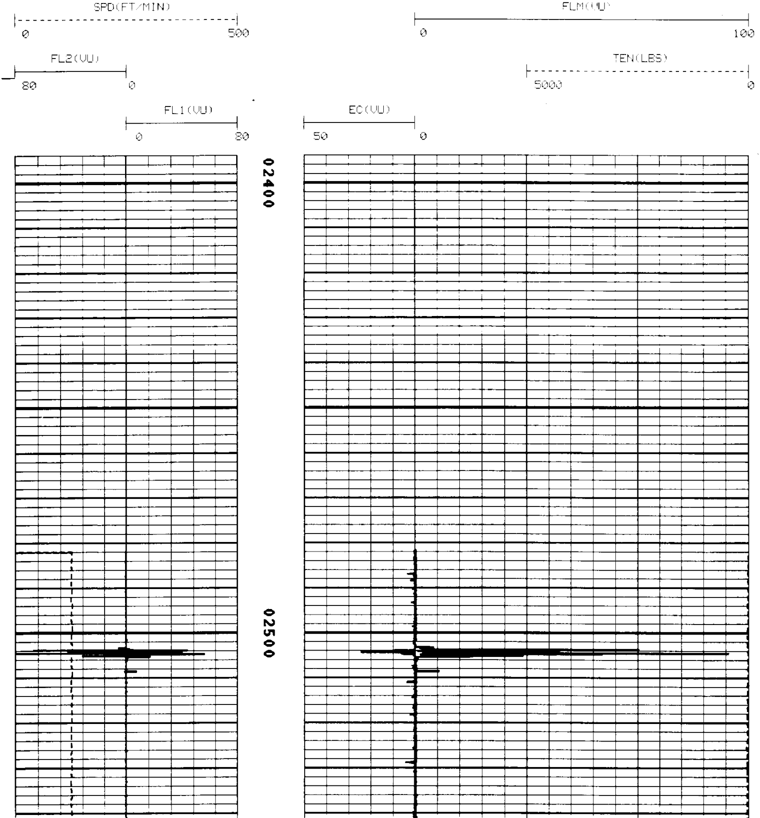
*** NONE ***

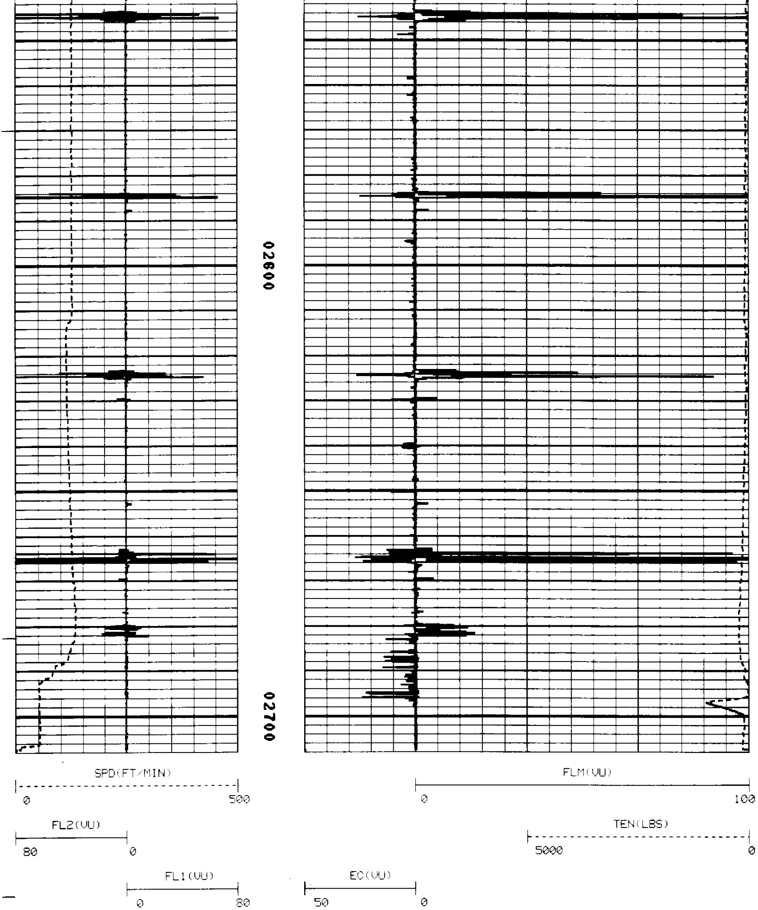
COMPANY: NORTHWEST NATURAL GAS COMPANY
RUN: 1

WELL NAME: I. W. 23d - 3
TRIP: 1

SERVICE: G2V003 FILE: 3 DATE: 10/19/91
TIME: 17:53:25

REVISION: FSY5256 REV:G002 VER:2.0
MODE: PLAYBACK





FILE: 3

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*****************************************************************************************************

                    ****************************************
                    *                                      *
                    *          CALIBRATION SUMMARY         *
                    *  DATE 10/19/91         TIME 19:18:52 *
                    *  RUN  1                TRIP 1        *
                    *                                      *
                    ****************************************


            LOG NAME VRT    ASSET NO. 8 5/8    UNIT NO. HL 6320
      CALIBRATION ENTERED ON  10/18/91 AT 10:03:27           2907
                          PIPE O.D.  =  8.625
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      CURVE   MILLIVOLTS      SCALING FACTORS     ENGINEERING VALUES  UNITS
                LOW    HIGH    ADD.     MULT.         LOW       HIGH
      ----  --------------- ------------------ --------------------- ----

           DATE 10/10/91          CALIBRATION         TIME 20:57:27

      FL1        -53.    1022.    0.000      0.0732      -0.527      10.224 VU
      FL2        -20.    1021.    0.000      0.0732      -0.205      10.210 VU
      EC         -40.    2079.    0.000      0.0366      -0.201      10.396 VU
      FLAV        -7.     163.    0.000      0.0246      -0.071       1.639 VU

           DATE 10/10/91        CHANNEL SUMMARY       TIME 20:57:27

   CH. NO.              FL1 (MV)         FL2 (MV)          EC (MV)        FLAV (MV)
      1                   982.           E                 2038.           150.
      2                  1025.           E                 1944.           159.
      3                  1053.           E                 2136.           173.
      4                  1075.           E                 1979.           169.
      5                  1029.           E                 2102.           169.
      6                   982.           E                 2124.           153.
      7                   993.           E                 2155.           156.
      8                  1019.           E                 2047.           168.
      9                  1054.           E                 2094.           167.
      10                 1073.           E                 2137.           160.
      11                  979.           E                 2113.           152.
      12                 1004.           E                 2091.           174.
      13                  E               1070.            2072.           E
      14                  E                971.            2026.           E
      15                  E               1004.            2156.           E
      16                  E               1026.            2151.           E
      17                  E                960.            2118.           E
      18                  E                978.            1940.           E
      19                  E                990.            1956.           E
      20                  E               1215.            2139.           E
      21                  E               1020.            2161.           E
      22                  E               1023.            2135.           E
      23                  E               1094.            1993.           E
      24                  E               1101.            2096.           E

                         AFTER LOG VERIFICATION          NOT DONE
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