Western Atlas International

ATLAS WIRELINE SERVICES

VERTILOG®

FILE NO.	3947
API NO.	36-009-00267
	5" = 100'

COMPANY **NORTHWEST NATURAL GAS COMPANY**
WELL I. W. 13b - 11
FIELD MIST
COUNTY COLUMBIA STATE OREGON

LOCATION:
272.25' NORTH & 344.20' EAST
FROM THE WEST 1/4 CORNER OF:
SEC 11 TWP 6N RGE 5W

OTHER SERVICES
ACBL-GR-CCL

PERMANENT DATUM GROUND LEVEL ELEV. 886.45
LOGGING MEASURED FROM K. B. 11.4 FT. ABOVE P.D.
DRILLING MEASURED FROM K. B.

ELEVATIONS
KB 897.85'
DF ---
GL 886.45'

FINAL PRINT

DATE	27-SEP-91	
RUN	1	
SERVICE ORDER	66911	
DEPTH-DRILLER	2210'	
DEPTH-LOGGER	2189'	
BOTTOM LOGGED INTERVAL	2183'	
TOP LOGGED INTERVAL	13'	
TYPE FLUID IN HOLE	GEL/POLYMER MUD	
SALINITY PPM CL.	---	
DENSITY LB/GAL.	---	
LEVEL	FULL	
MAX. REC. TEMP. DEG. F	100 F	
OPR. RIG TIME	2 1/2 HRS.	
EQUIP. NO. / LOC.	HL 6399 BAKRSFLD	
RECORDED BY	TORGERSON	
WITNESSED BY	TODD THOMAS	

BOREHOLE RECORD

NO.	BIT	FROM	TO
2	12 1/4"	532'	2214'

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
13 3/8"	54.5	SURF.	532'
8 5/8"	32	SURF.	2210'

REMARKS RUN (1)

TAYLOR RIG 4
BHT 100 F & 100 F
HOLE IS DEVIATED 15 DEG. ON BOTTOM TO A MAXIMUM OF 27 DEG.
AT 1410' AND THEN BACK TO 1 DEG. AT 700'.

CLASS 1	0-20%	PENETRATION
CLASS 2	21-40%	"
CLASS 3	41-60%	"
CLASS 4	61-80%	"
CLASS 4PP	81-100%	"

CHART NOS 86H1E AND 86H14E USED FOR CLASSIFICATION
(8-5/8 INCH, 32 LBS. H40 CHARTS) K55

EQUIPMENT DATA

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

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FILE: 3

PARAMETERS

*** NONE ***

DISPLAY SCALE CHANGES

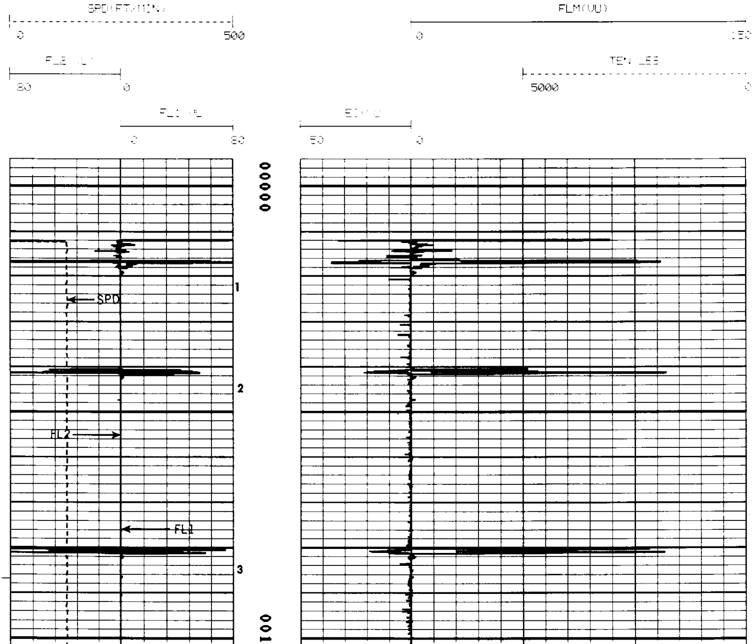
*** NONE ***

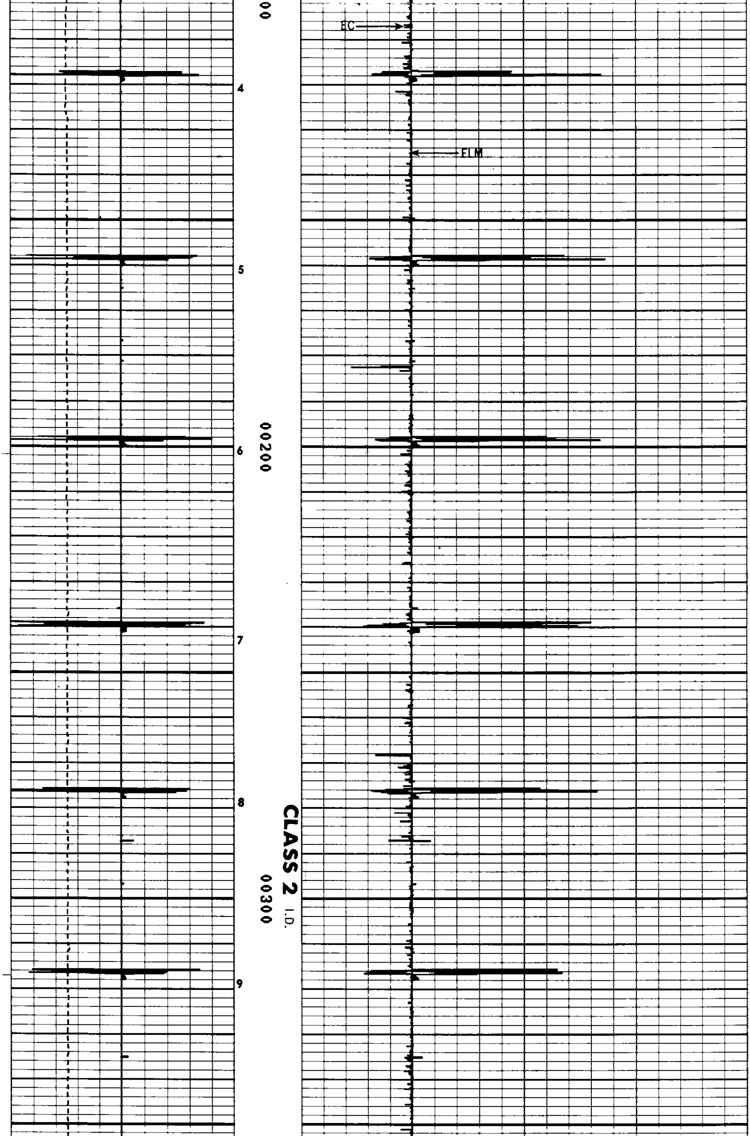
COMPANY: OREGON NATURAL GAS DEVELOPMENT CORP.
RUN: 1

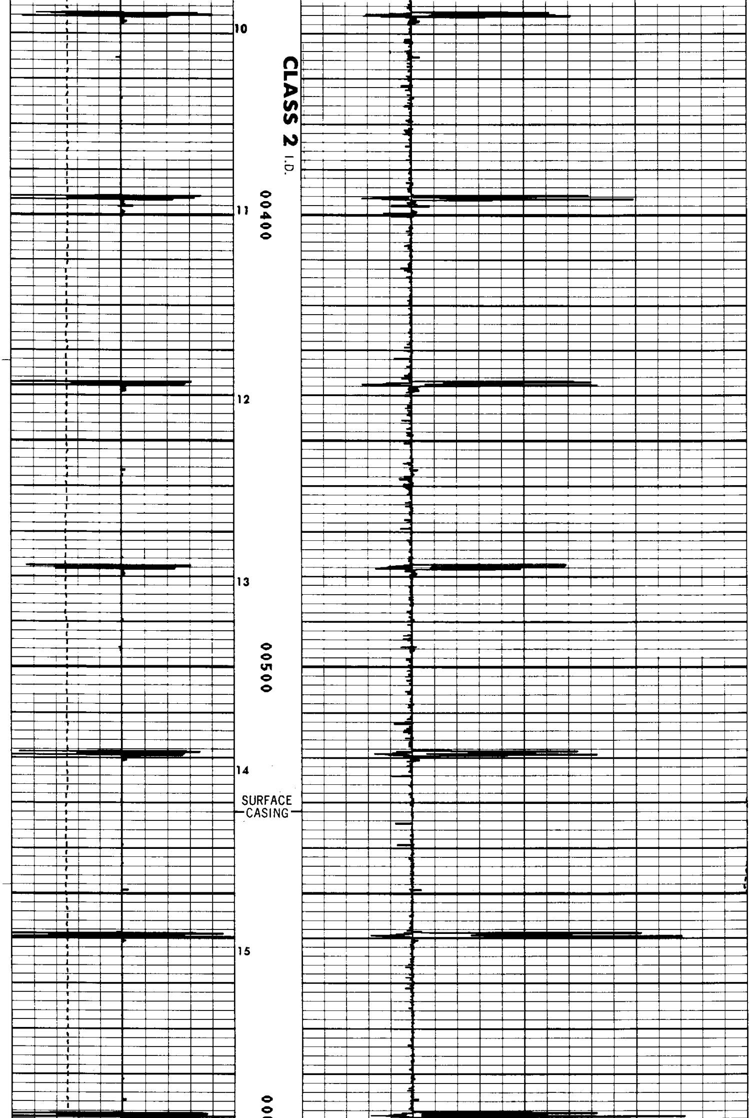
WELL NAME: I. W. 13b - 11
TRIP: 1

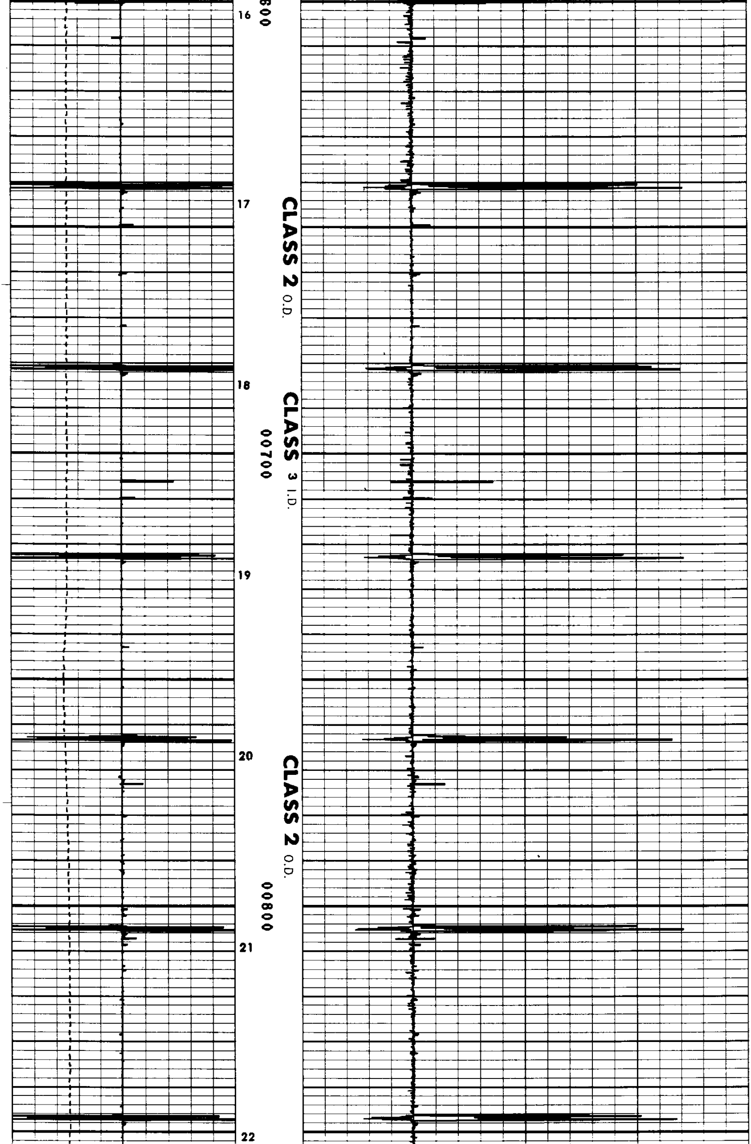
SERVICE: G2V003 FILE: 3 DATE: 09/27/91
TIME: 06:58:06

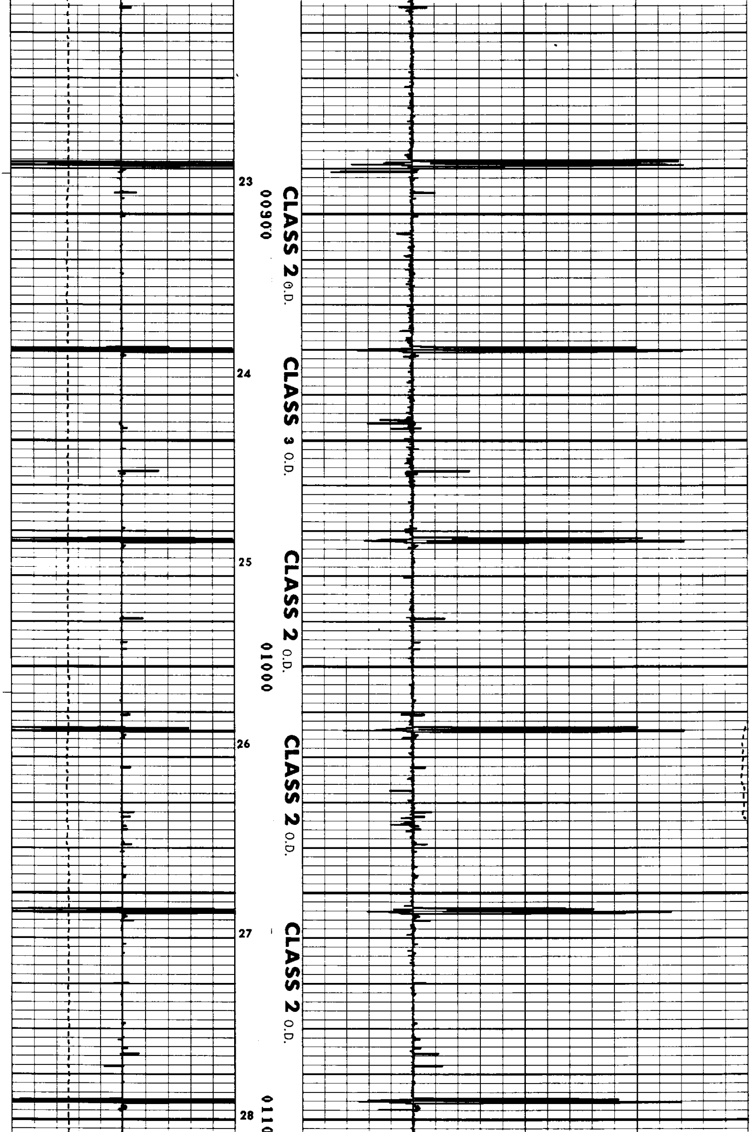
REVISION: FSYS256 REV:G002 VER:2.0
MODE: PLAYBACK

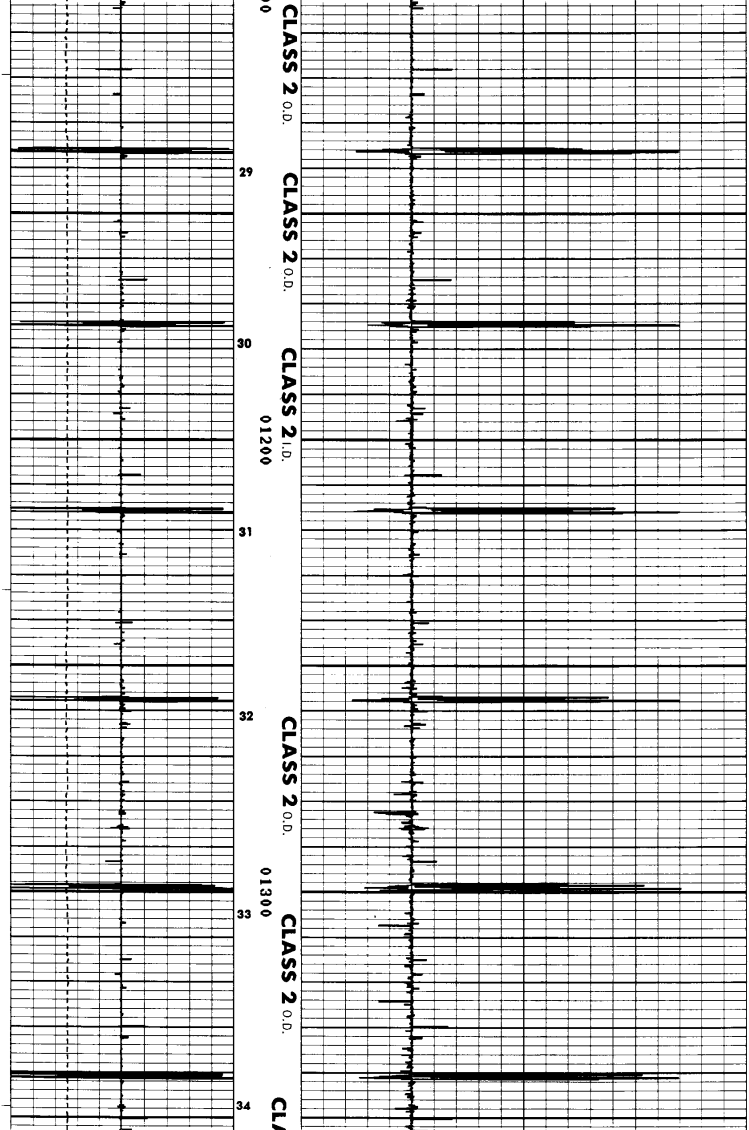


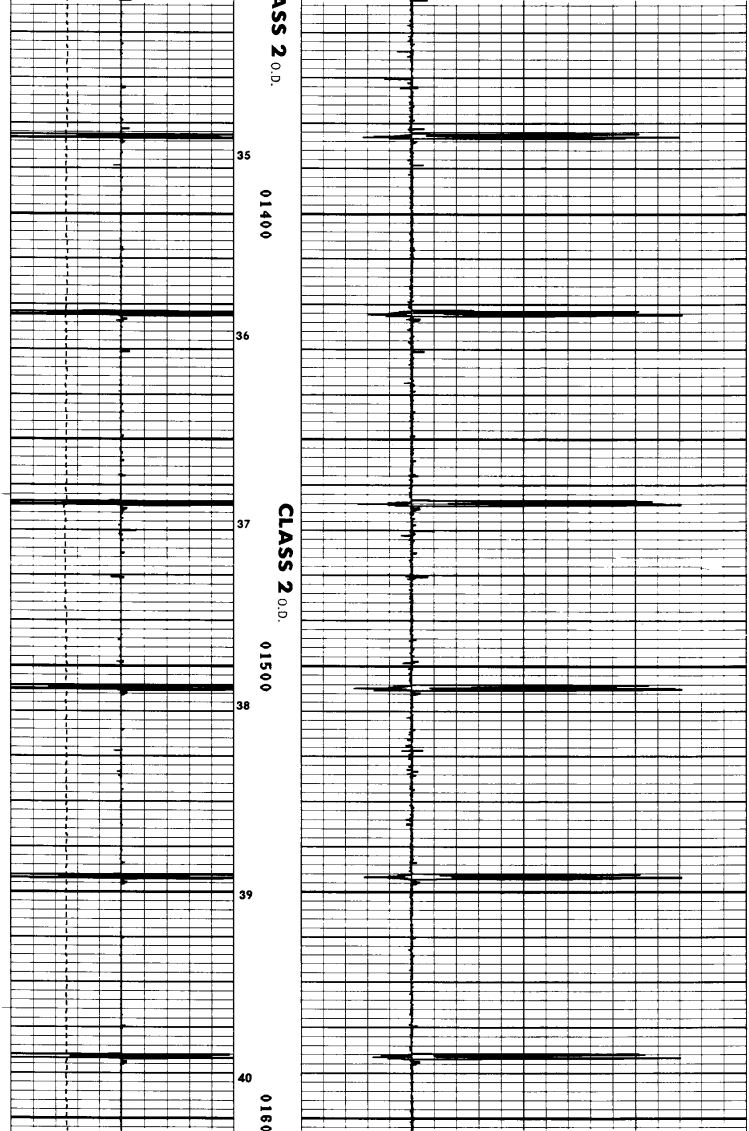


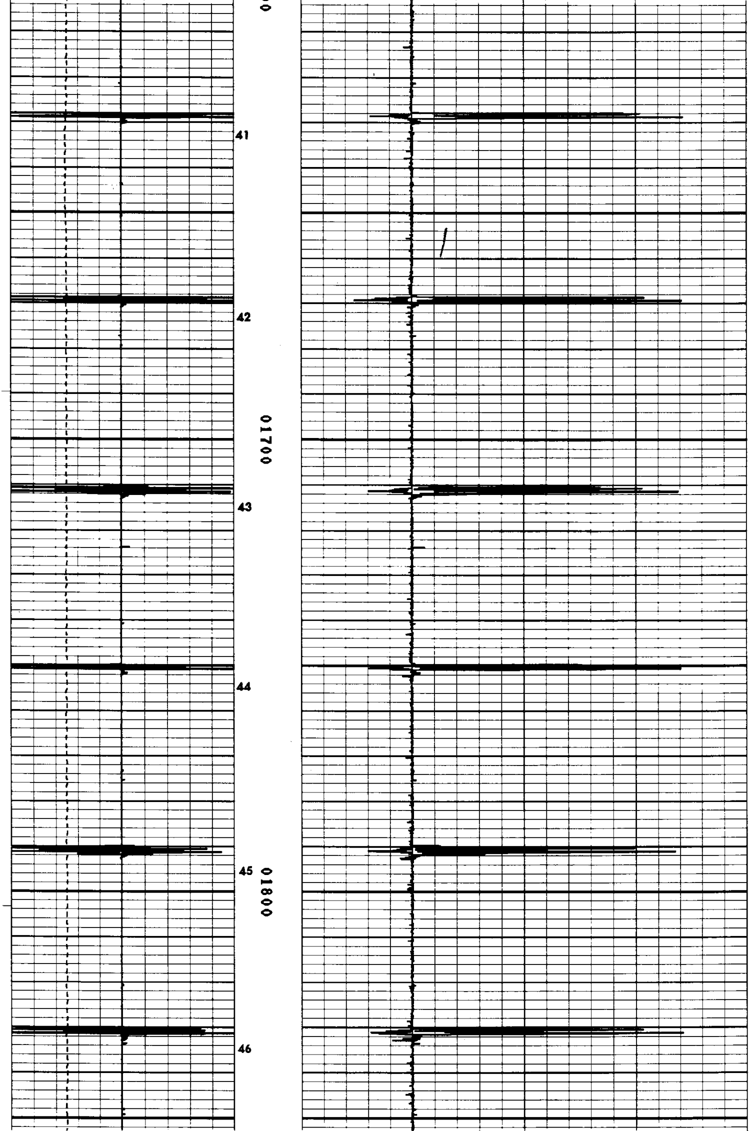


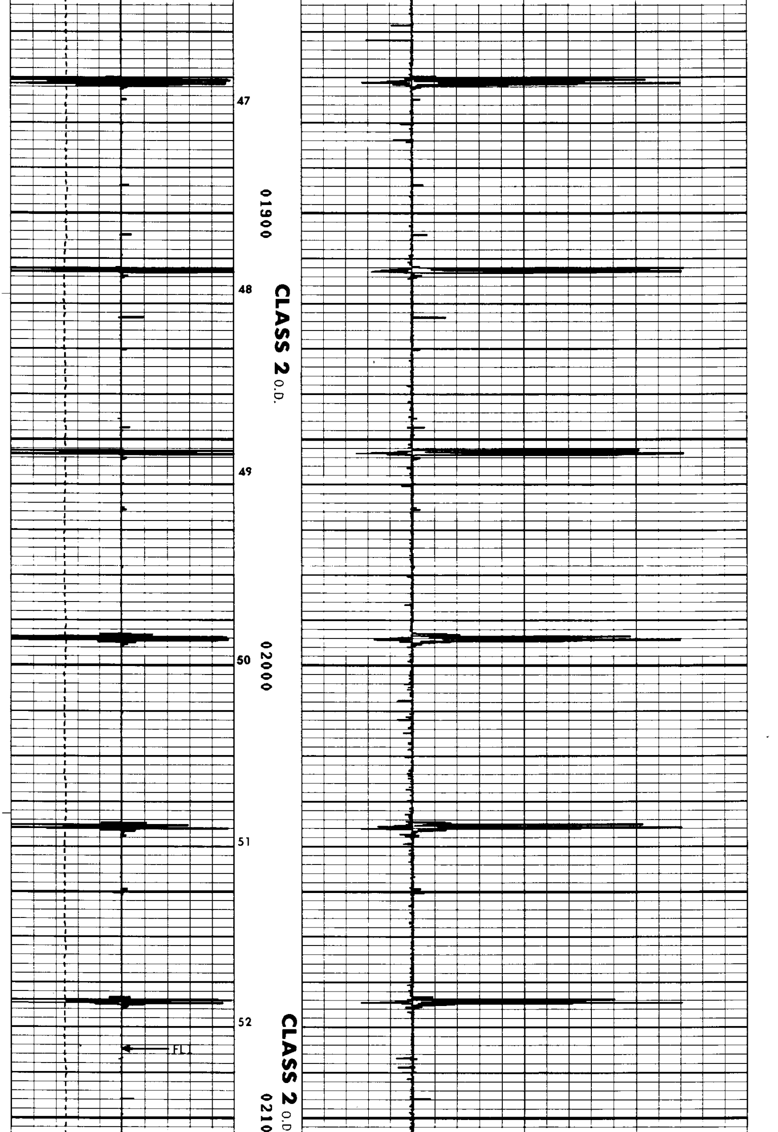


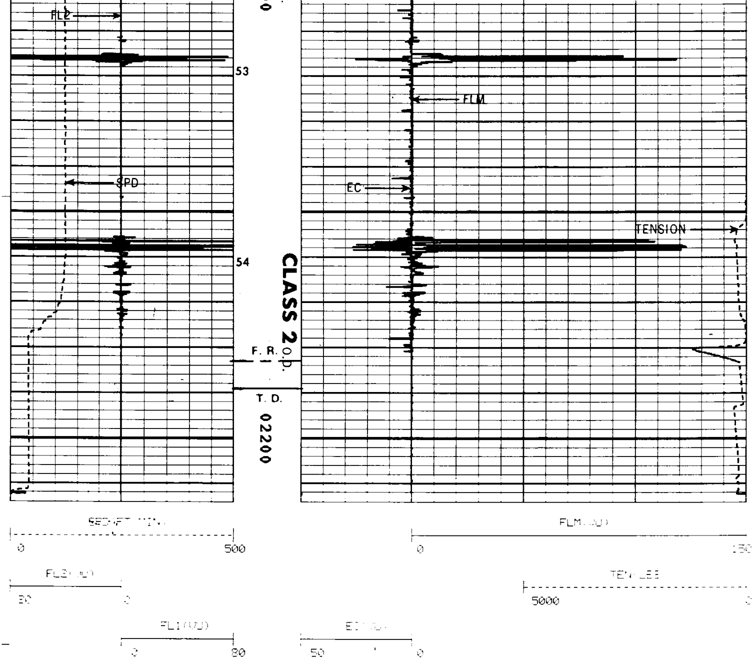












FILE: 3

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FILE: 1

PARAMETERS

*** NONE ***

DISPLAY SCALE CHANGES

*** NONE ***

COMPANY: OREGON NATURAL GAS DEVELOPMENT CORP. RUN: 1

WELL NAME: I. W. 13b - 11 TRIP: 1

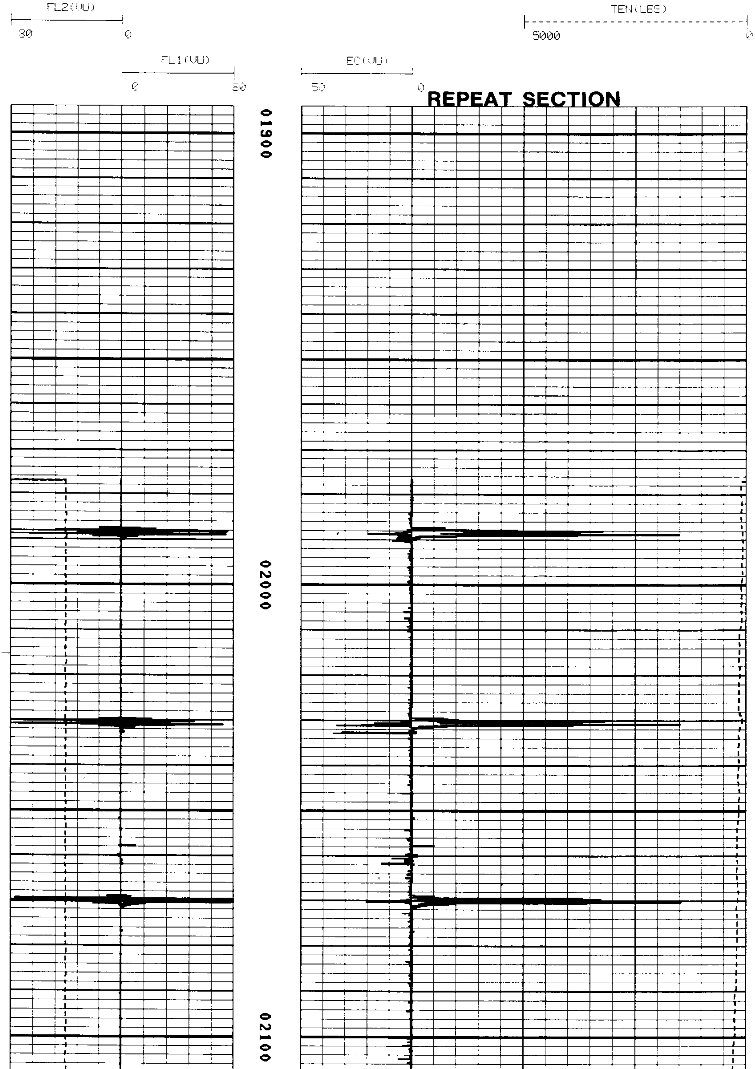
SERVICE: G2V003 FILE: 1 DATE: 09/27/91 TIME: 06:45:54

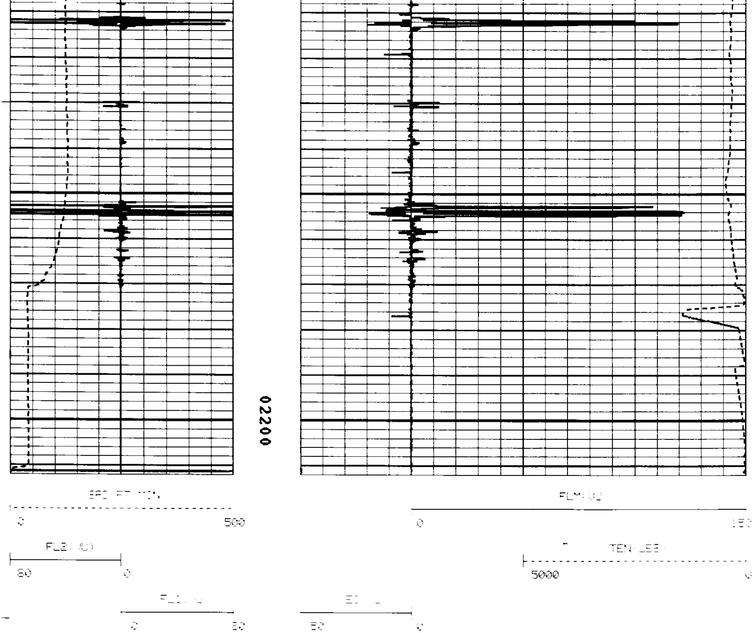
REVISION: FSYS256 REV:G002 VER:2.0 MODE: PLAYBACK

SPD(FT/MIN)
0 500

FLM(VU)
0 150

REPEAT SECTION





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                              FILE:  1

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                  ****************************************
                  *                                      *
                  *          CALIBRATION SUMMARY         *
                  *  DATE 09/27/91         TIME 08:43:11 *
                  *  RUN  1                TRIP 1        *
                  *                                      *
                  ****************************************


            LOG NAME VRT     ASSET NO. 8.6      UNIT NO. 6320
        CALIBRATION ENTERED ON  09/27/91 AT 05:43:21              2907
                                 PIPE O.D.  =  8.6

      CURVE   MILLIVOLTS      SCALING FACTORS     ENGINEERING VALUES  UNITS
               LOW    HIGH    ADD.     MULT.        LOW        HIGH
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           DATE 09/23/91         CALIBRATION          TIME 13:31:36

      FL1      -32.    998.    0.000    0.0732      -0.322       9.984 VU
      FL2      -15.   1035.    0.000    0.0732      -0.154      10.348 VU
      EC       -27.   2045.    0.000    0.0366      -0.135      10.227 VU
      FLAV      -5.    115.    0.000    0.0346      -0.076       1.639 VU

           DATE 09/23/91       CHANNEL SUMMARY        TIME 13:31:36
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CH. NO.            FL1 (MV)        FL2 (MV)       EC (MV)        FLAV (MV)
   1                 993.            E             2129.            115.
   2                1022.            E             2096.            122.
   3                1034.            E             2102.            121.
   4                1001.            E             2079.            112.
   5                1006.            E             2067.            113.
   6                1013.            E             2054.            118.
   7                 990.            E             2048.            113.
   8                1000.            E             2038.            114.
   9                 971.            E             2012.            121.
   10                965.            E             1982.            113.
   11                965.            E             1994.            106.
   12               1023.            E             2035.            119.
   13                E              1015.          2158.            E
   14                E              1072.          2136.            E
   15                E              1034.          2105.            E
   16                E              1050.          2101.            E
   17                E              1045.          2113.            E
   18                E              1051.          2077.            E
   19                E               994.          1959.            E
   20                E               997.          1960.            E
   21                E              1044.          1930.            E
   22                E              1022.          1971.            E
   23                E              1058.          1956.            E
   24                E              1037.          1988.            E
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