ATLAS
WIRELINE
SERVICES

VERTILOG®

FILE NO.
PC-VRL-1339
API NO.

COMPANY OREGON NATURAL GAS DEVELOPEMENT CORP.
WELL COLUMBIA COUNTY NO. 10
FIELD MIST-NAHALEM BASIN
COUNTY COLUMBIA STATE OREGON

LOCATION:
1976' N. & 1065' E.
OF S.W. CORNER OF:
SEC 3 TWP 6N. RGE 5W.

OTHER SERVICES
NEUTRON
3 1/8" PERF.

PERMANENT DATUM G.L. ELEV. 1089.2
LOGGING MEASURED FROM K.B. 10.5 FT. ABOVE P.D.
DRILLING MEASURED FROM K.B.

ELEVATIONS
KB 1099.7'
DF ---
GL 1089.2'

DATE	NOV. 7,1988	
RUN	1	
SERVICE ORDER	131777	
DEPTH-DRILLER	2692'	
DEPTH-LOGGER	2691'	
BOTTOM LOGGED INTERVAL	2686'	
TOP LOGGED INTERVAL	SURFACE	
TYPE FLUID IN HOLE	WATER / GAS	
SALINITY PPM CL.	---	
DENSITY LB/GAL.	---	
LEVEL	FULL	
MAX. REC. TEMP. DEG. F	NOT RECORDED	
OPR. RIG TIME	1.5 HRS.	
EQUIP. NO. / LOC.	HL 6301 | BAKRSFLD.	
RECORDED BY	T. THOMEY	
WITNESSED BY	MR. THOMAS	

BOREHOLE RECORD

NO.	BIT	FROM	TO
		N/A	

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

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CASING RECORD

SIZE	WGT	FROM	TO
7"	23	SURF.	439' K-55
4 1/2"	10.5	SURF.	2902' K-55

REMARKS RUN (1)

SURF COMMAND USED AT 440´.
CENTRALIZERS NOT USED!!
PERFS: 2668´-2678´. 2682´-2689´.
EC SCALED 10-60 TO ELIMINATE NOISE FROM PAD-SLAP.

EQUIPMENT DATA

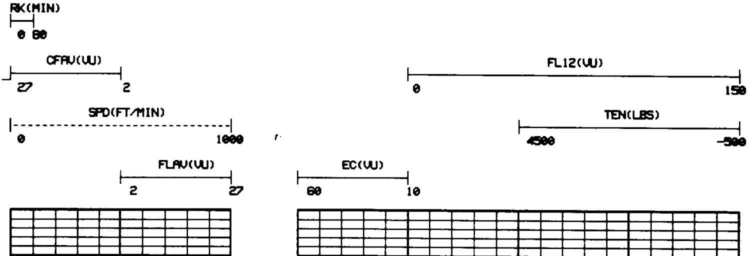
RUN	TRIP	TOOL	SERIAL NO.	SERIES NO.	POSITION
1	1	VRT	81963	2904MA	FREE

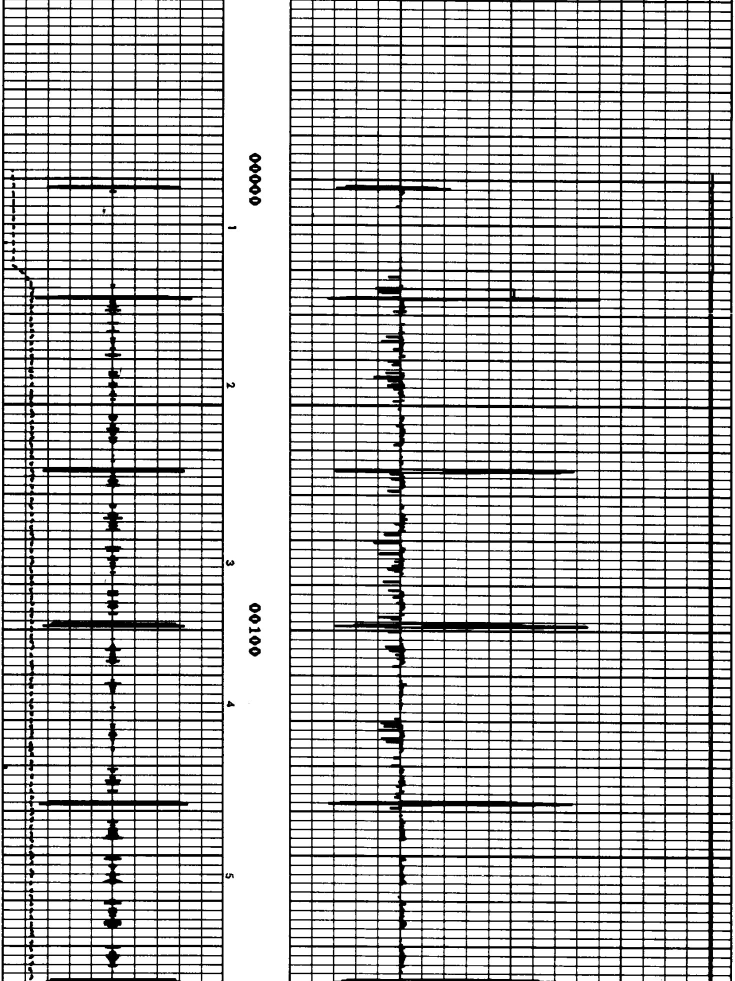
PARAMETERS

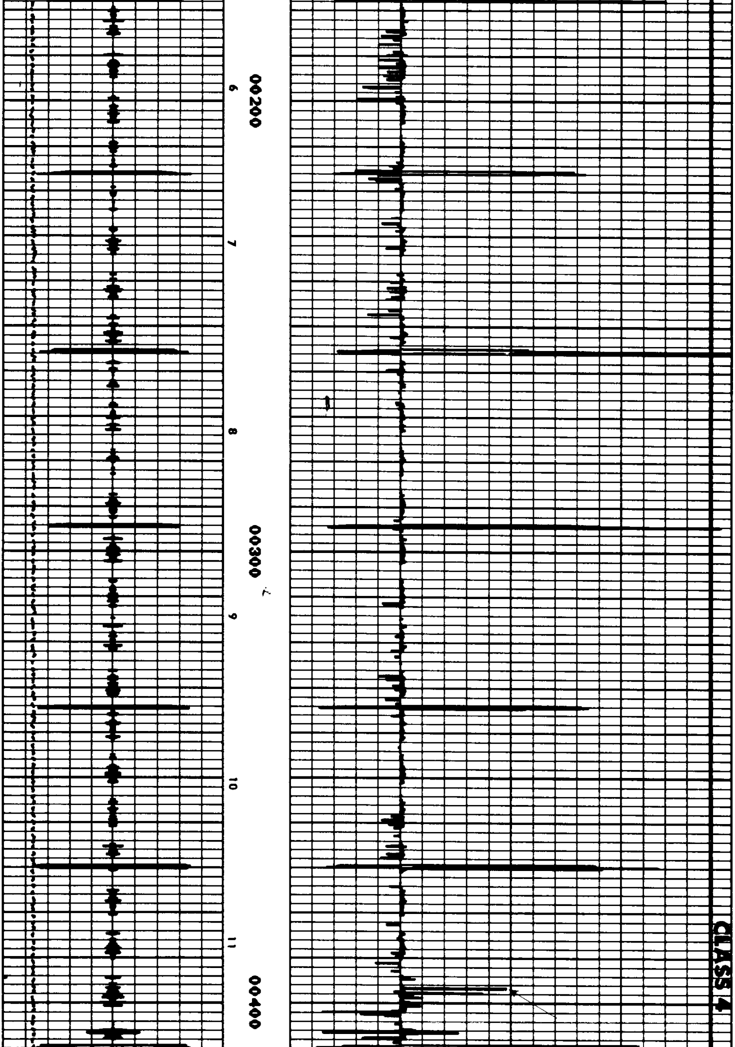
*** NONE ***
DISPLAY SCALE CHANGES

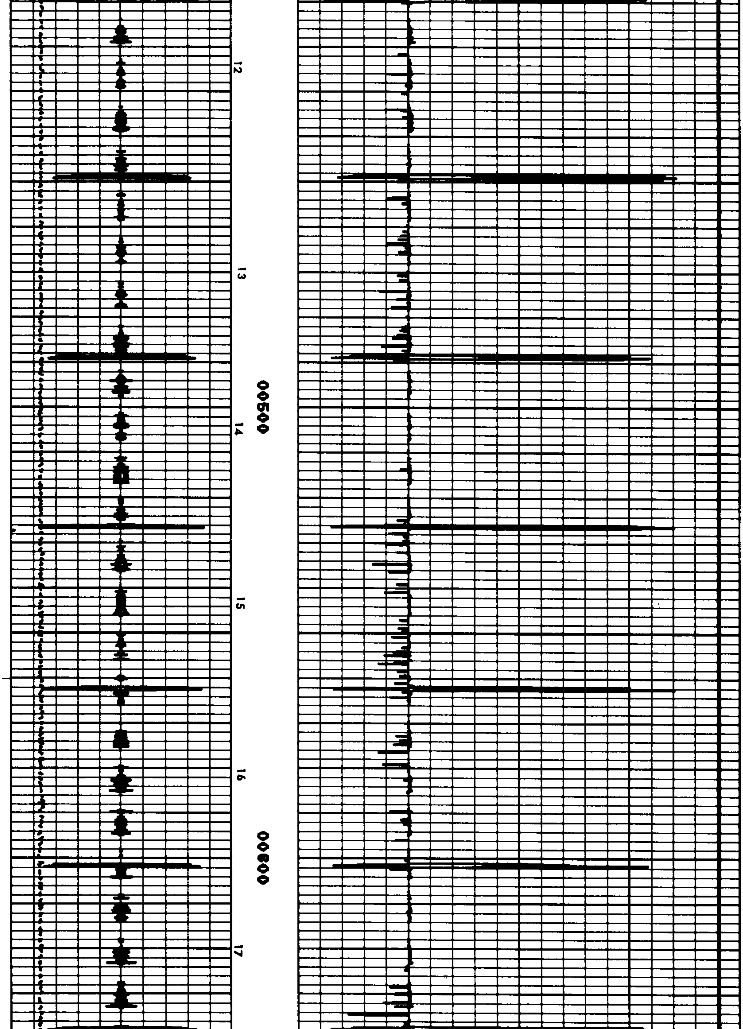
*** NONE ***

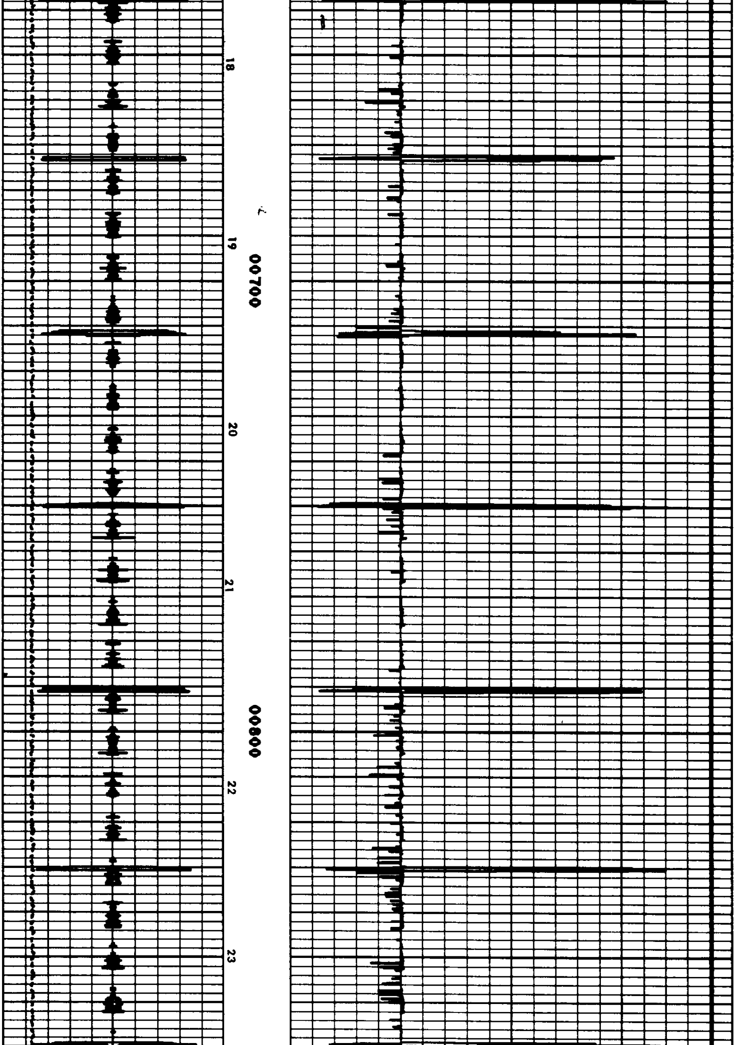
COMPANY: OREGON NATURAL GAS DEVELOPEMENT CORP.
RUN: 1
WELL NAME: COLUMBIA COUNTY NO. 10
TRIP: 1
SERVICE: V VRT1
FILE: 4
DATE: 11/ 7/88
TIME: 13:35:27
REVISION: FSYSAL REV GS08 VER 2
MODE: PLAYBACK

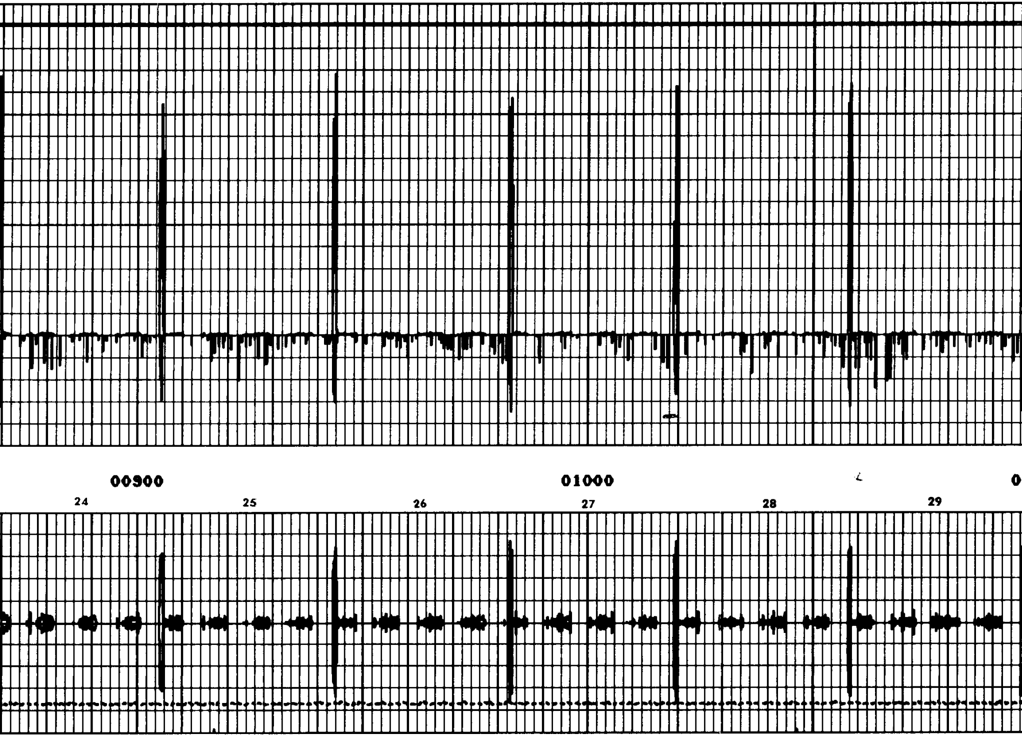


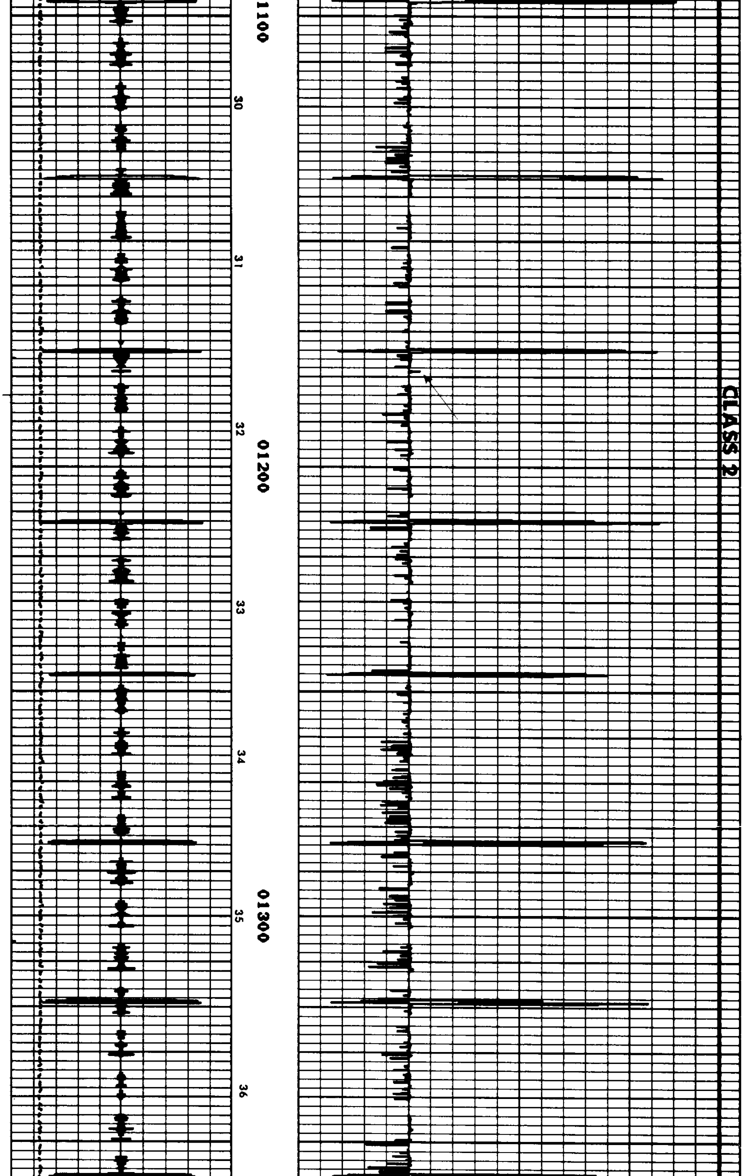


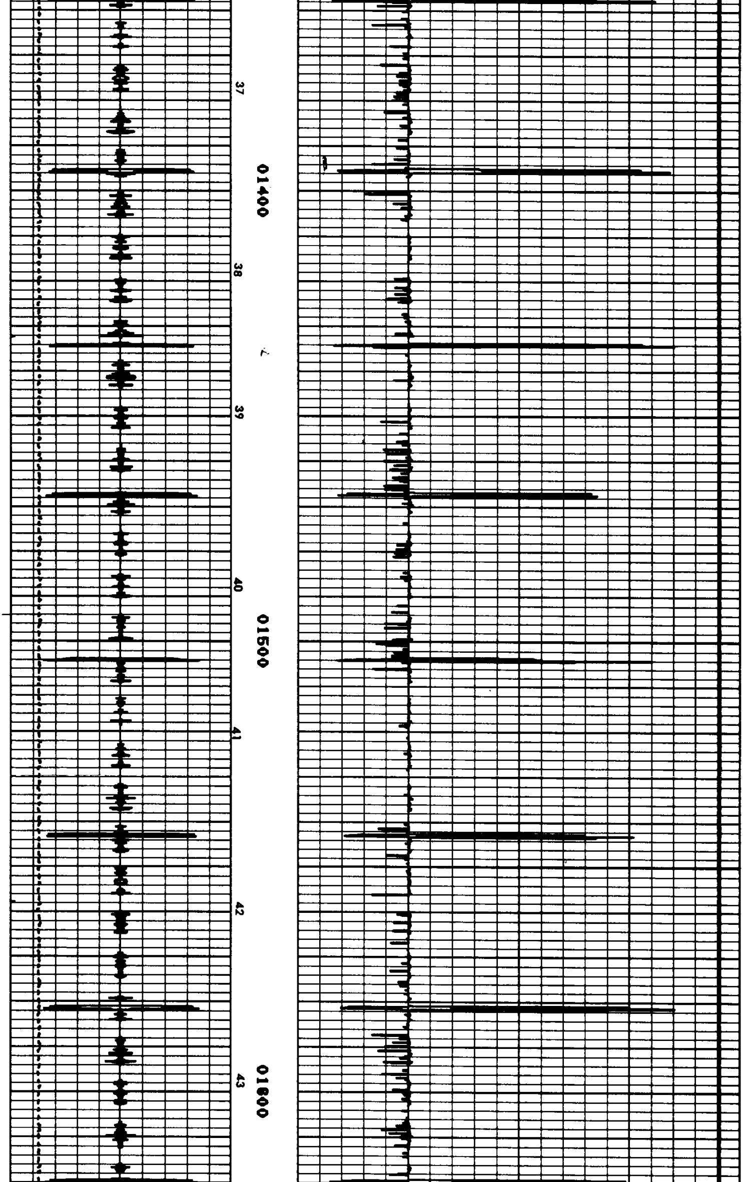


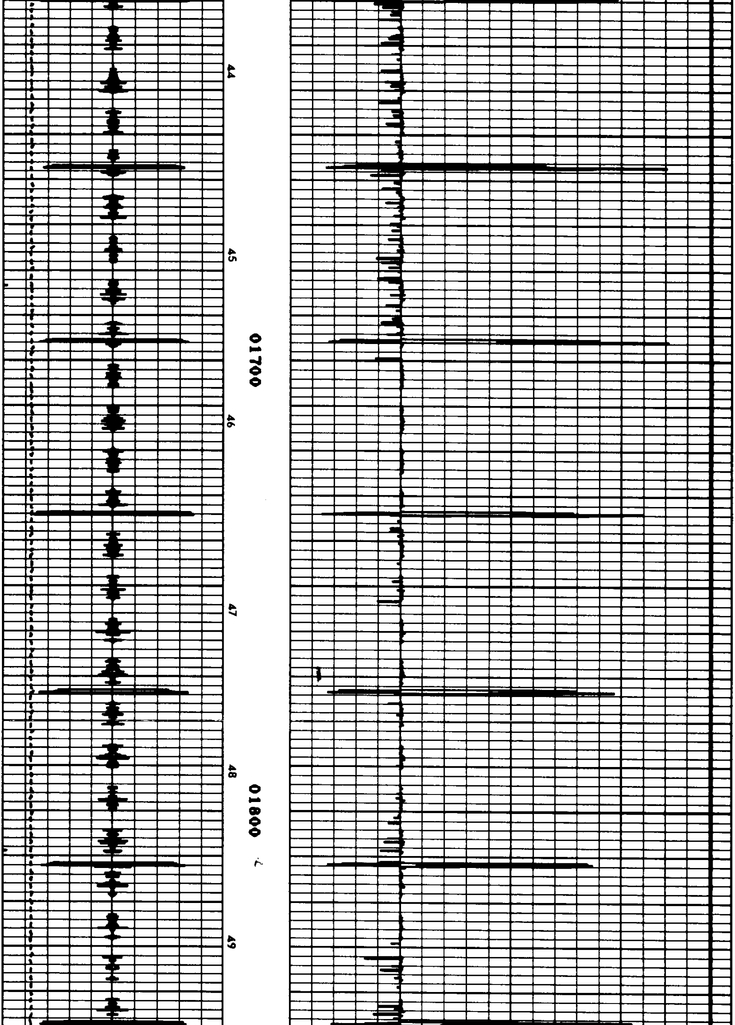


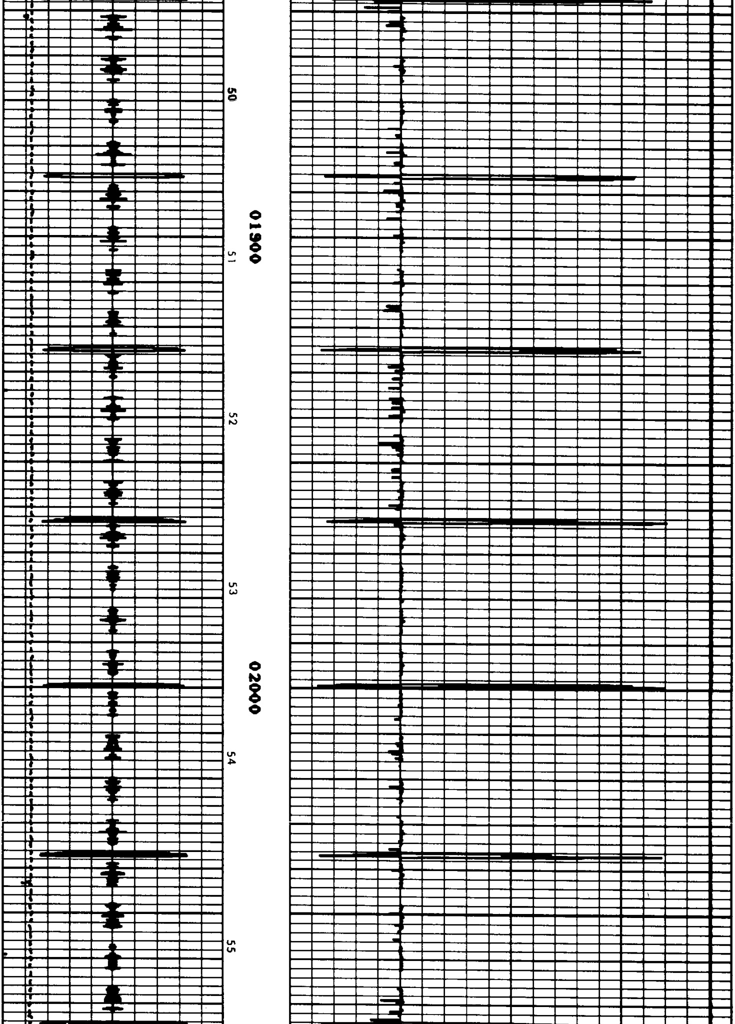


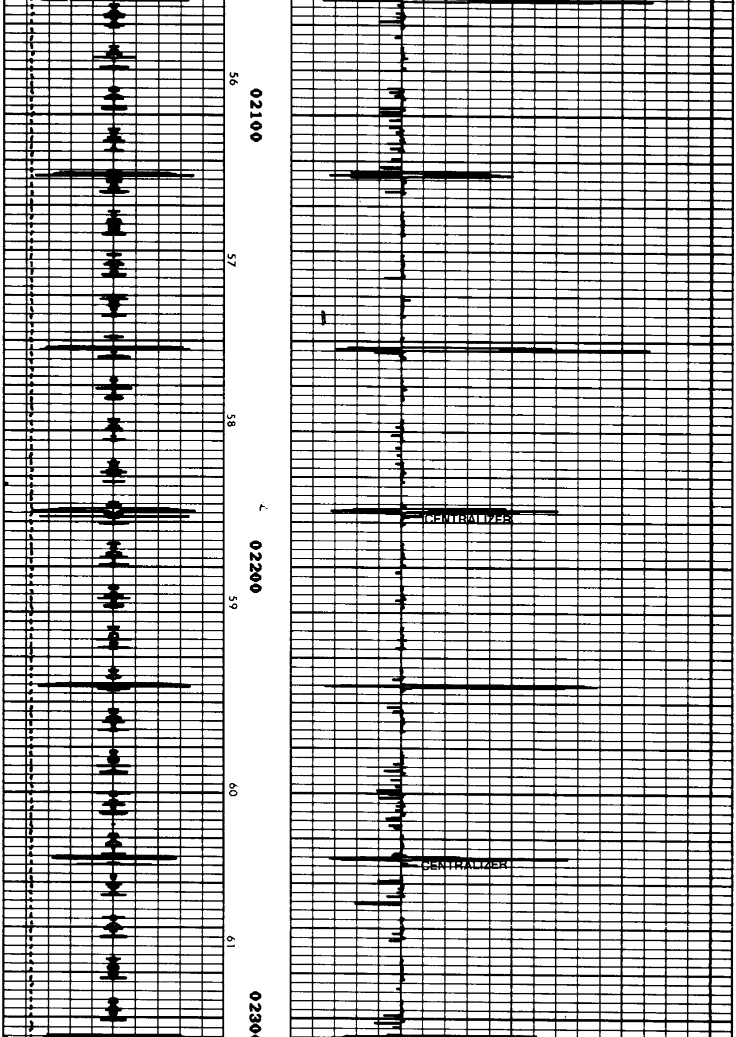


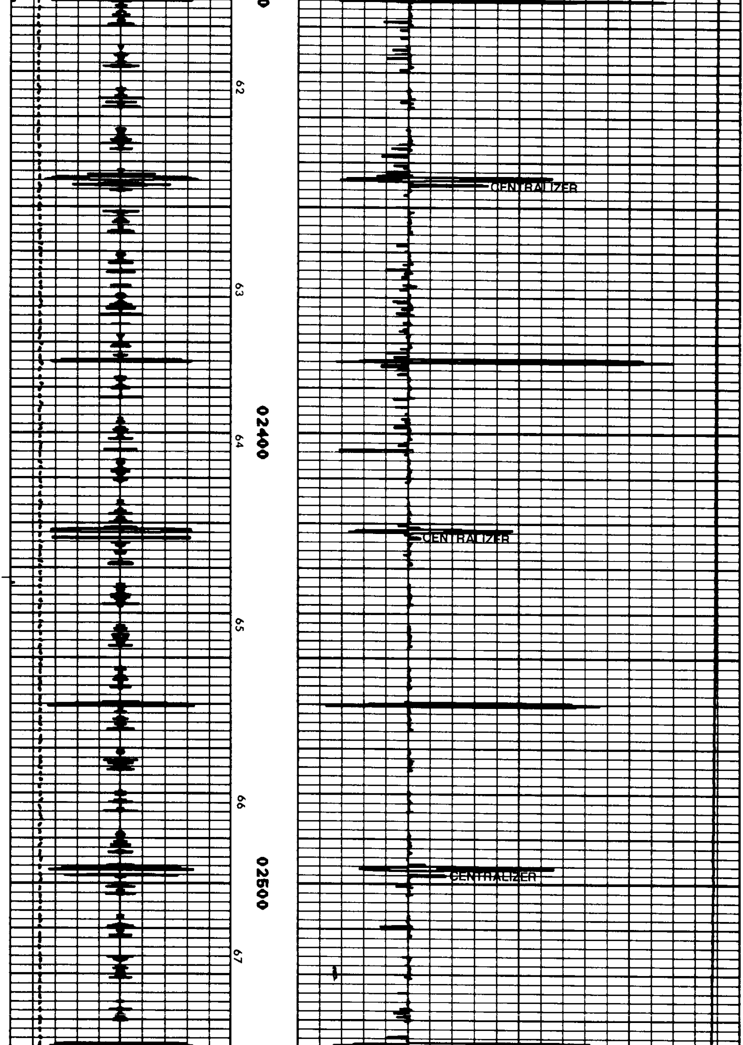


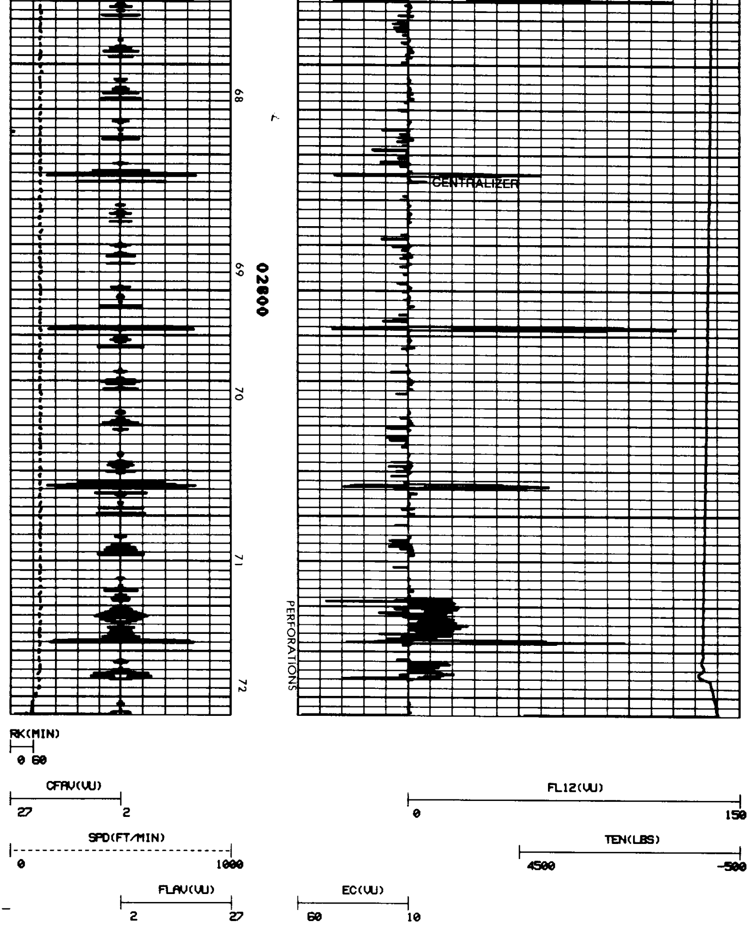












REPEAT SECTION

PARAMETERS

*** NONE ***

DISPLAY SCALE CHANGES

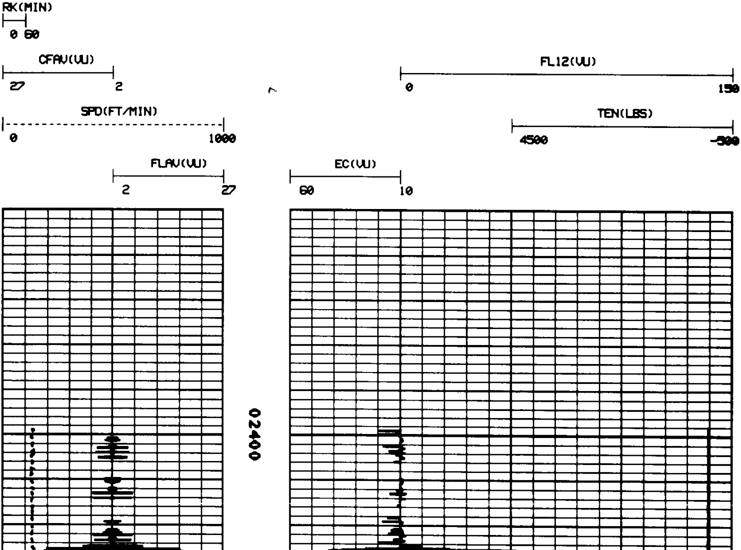
*** NONE ***

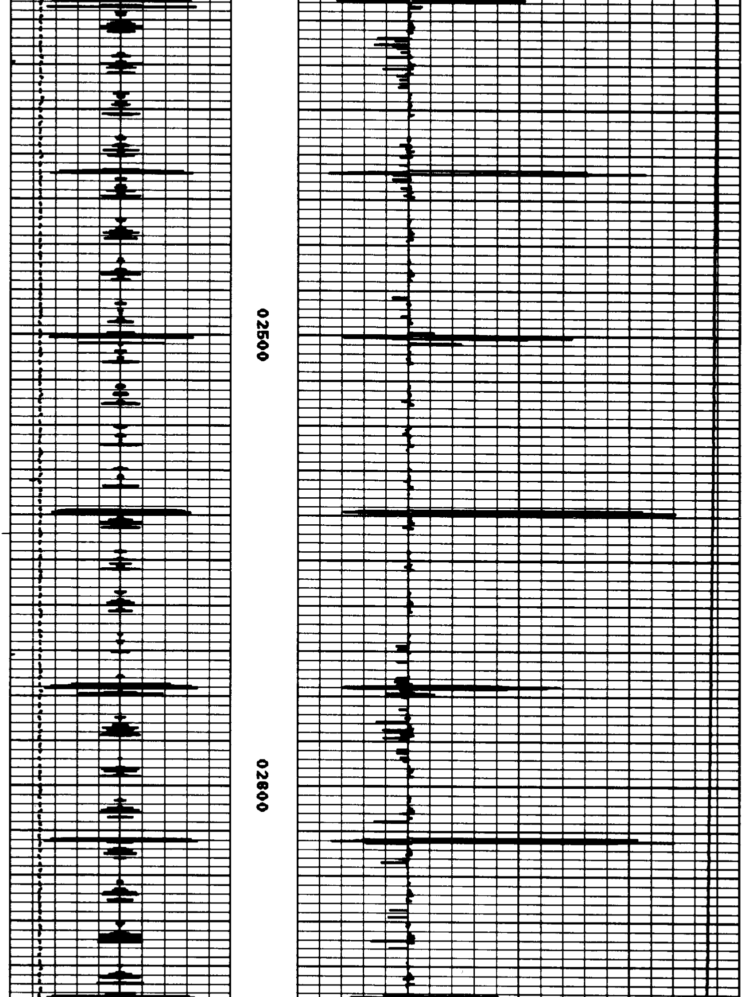
COMPANY: OREGON NATURAL GAS DEVELOPEMENT CORP. RUN: 1

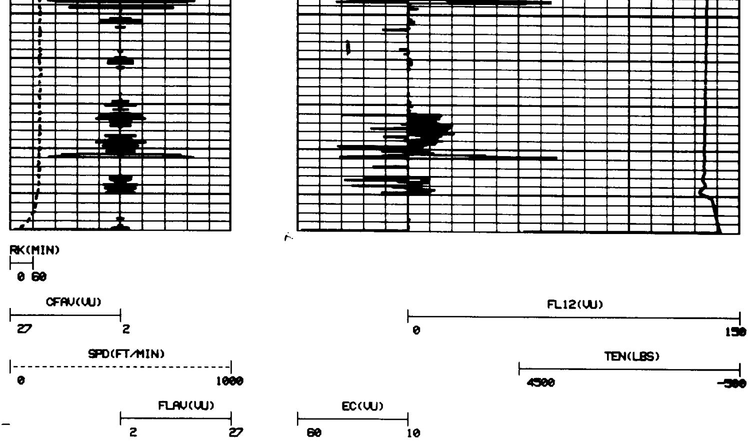
WELL NAME: COLUMBIA COUNTY NO. 10 TRIP: 1

SERVICE: V VRT1 FILE: 2 DATE: 11/ 7/88 TIME: 13:26:46

REVISION: FSYSAL REV GS08 VER 2 MODE: PLAYBACK







CALIBRATION

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****************************************
*                                      *
*        CALIBRATION SUMMARY           *
*  DATE 01/03/89        TIME 11:41:18  *
*  RUN  1               TRIP 1         *
*                                      *
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    LOG NAME VRT     ASSET NO. 4.5B     UNIT NO. HL 6301
 CALIBRATION ENTERED ON  11/07/88 AT 12:51:09            2904
                         PIPE O.D.  =  4.5

CURVE   MILLIVOLTS     SCALING FACTORS    ENGINEERING VALUES   UNIT
          LOW   HIGH    ADD.    MULT.       LOW        HIGH
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     DATE 10/26/88       CALIBRATION         TIME 15:03:01

FL1       -11.  1004.   0.000   0.0732    -0.110     10.041 VU
FL2      -295.  1011.   0.000   0.0732    -2.950     10.109 VU
EC          2.  1999.   0.000   0.0366     0.011      9.995 VU
FLAV        4.   140.   0.000   0.0573     0.086      3.279 VU

     DATE 10/26/88       CHANNEL SUMMARY     TIME 15:03:01
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CH. NO.	FL1 (MV)	FL2 (MV)	EC (MV)	FLAV (MV)
1	1000.	E	1909.	154.
2	993.	E	2058.	141.
3	998.	E	2095.	131.
7	993.	E	2069.	132.
8	1088.	E	1878.	151.
9	953.	E	2061.	129.
13	E	1053.	2053.	E
14	E	1009.	1990.	E
15	E	988.	1971.	E
19	E	1020.	1946.	E
20	E	979.	2028.	E
21	E	1016.	1932.	E