Western Atlas International

ATLAS WIRELINE SERVICES

DUAL INDUCTION FOCUSED LOG

GAMMA RAY

FILE NO.

API NO.

36-067-0004

5" = 100'

COMPANY OREGON NATURAL GAS DEVELOPMENT CORP.

WELL VAN DYKE 32-26

FIELD GASTON PROSPECT

COUNTY WASHINGTON STATE OR.

LOCATION:
2239' W & 2186' S FROM NE COR.

SEC 26 TWP 1S RGE 4W

OTHER SERVICES
BHC-AC/GR/CAL
DIPLOG

PERMANENT DATUM GL ELEV. 176.66

LOGGING MEASURED FROM KB 11.4 FT. ABOVE P.D.

DRILLING MEASURED FROM KB

ELEVATIONS
KB 188.06'
DF -
GL 176.66'

FINAL PRINT

DATE	01-21-91				
RUN	1				
SERVICE ORDER	65514				
DEPTH-DRILLER	3229'				
DEPTH-LOGGER	3228'				
BOTTOM LOGGED INTERVAL	3226'				
TOP LOGGED INTERVAL	443'				
CASING - DRILLER	8 5/8"	@ 443'	@	@	@
CASING - LOGGER	443'				
BIT SIZE	7 7/8"				
TYPE FLUID IN HOLE	GEL/POLYMER				
DENSITY / VISCOSITY	9.1	47			
PH / FLUID LOSS	8.5	6.0			
SOURCE OF SAMPLE	FLOWLINE				
RM AT MEAS. TEMP.	6.50	@ 50 DEG. F	@	@	@
RMF AT MEAS. TEMP.	4.80	@ 50 DEG. F	@	@	@
RMC AT MEAS. TEMP.	8.05	@ 50 DEG. F	@	@	@
SOURCE OF RMF / RMC	M	M			
RM AT BHT	3.35	@ 97 DEG. F	@	@	@
TIME SINCE CIRCULATION	4 HRS				
MAX. REC. TEMP. DEG. F	97 DEG. F				
EQUIP. NO. / LOC.	6399	BAK..			
RECORDED BY	M. HINDS				
WITNESSED BY	MR. THOMAS				

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.

REMARKS RUN (1)

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EQUIPMENT DATA

RUN	TRIP	TOOL	SERIAL NO.	SERIES NO.	POSITION
1	1	DIFL	77837	1503XA	1.5SO
1	1	AC	79731/VENT1	1603/1609	CENT.
1	1	GR	72384	1309XA	CENT
1	1	CAL	38088	4202XA	4/ARM

MAIN LOG 5"

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                              FILE:   3

          CURVE  DELAY  REPORT
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                          PHYS.
                   CURVE  DELAY   UNITS
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                   CFOC       0   FT.IN.
                   CILM     6.0   FT.IN
                   CILD     9.3   FT.IN
                   SP       9.3   FT.IN
                   [illegible]
                   [illegible]
                   [illegible]
                   AC     [illegible]


          PARAMETERS
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             NAME        DEPTH INTERVAL     VALUE      UNITS
             --------    --------------   ----------   -----
             A            3242 TO   379      0.000
             DEL-T F      3242 TO   379      0.000     MICS/FT
             DEL-T M      3242 TO   379      0.000     MICS/FT
             DEL-T S      3242 TO   379      0.000     MICS/FT
             M            3242 TO   379      0.000
             O.D.         3242 TO   379      0.000     INCH
             PORA         3242 TO   379     WYLLIE


          DISPLAY SCALE CHANGES
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                              *** NONE ***


  COMPANY :     OREGON NATURAL GAS DEVELOPMENT CORP.              RUN:  1

  WELL NAME:    VAN DYKE  32-26                                   TRIP: 1

  SERVICE:      UC214N        FILE:   3        DATE:  01 13 81    TIME: 16:18:31

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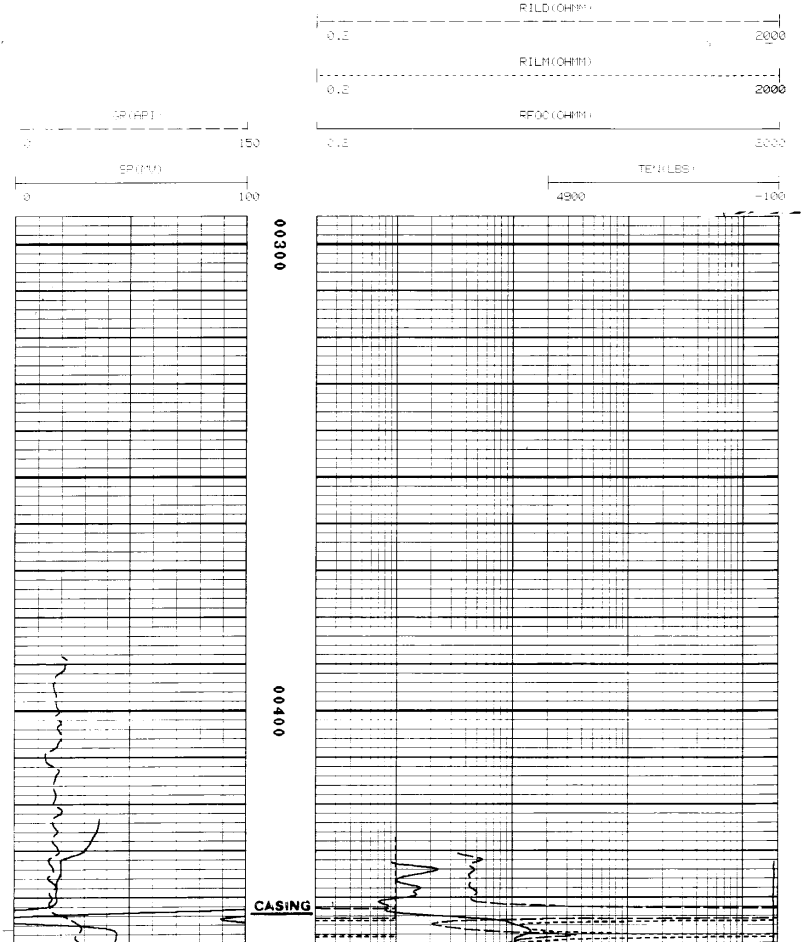

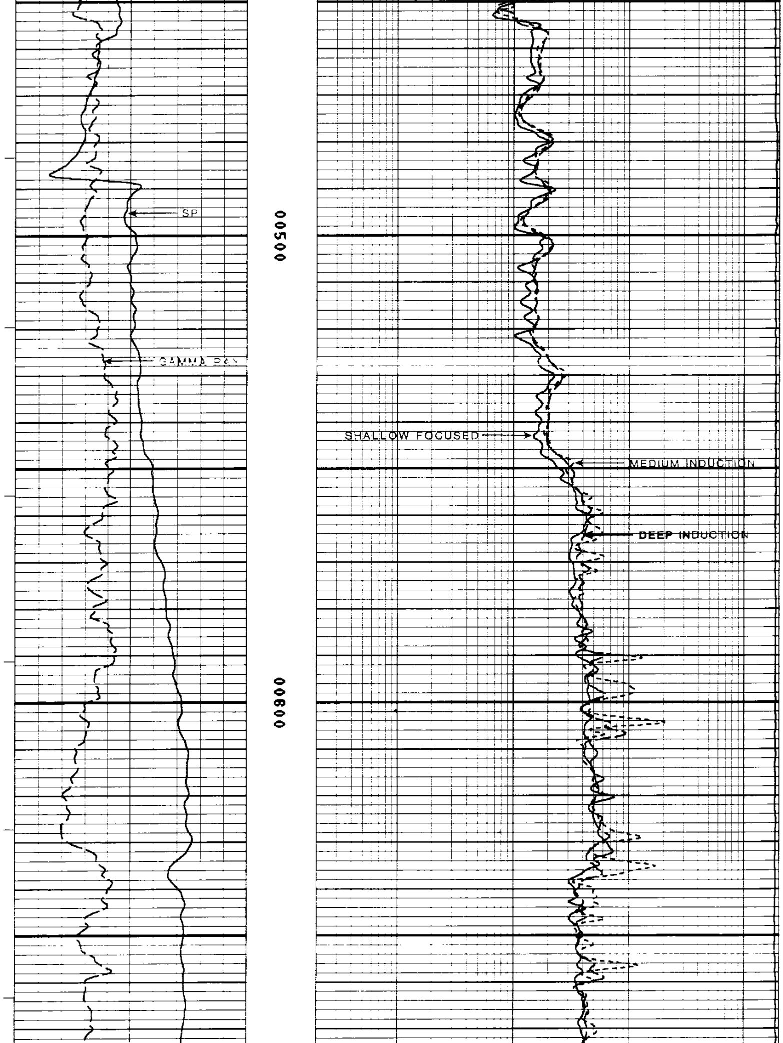

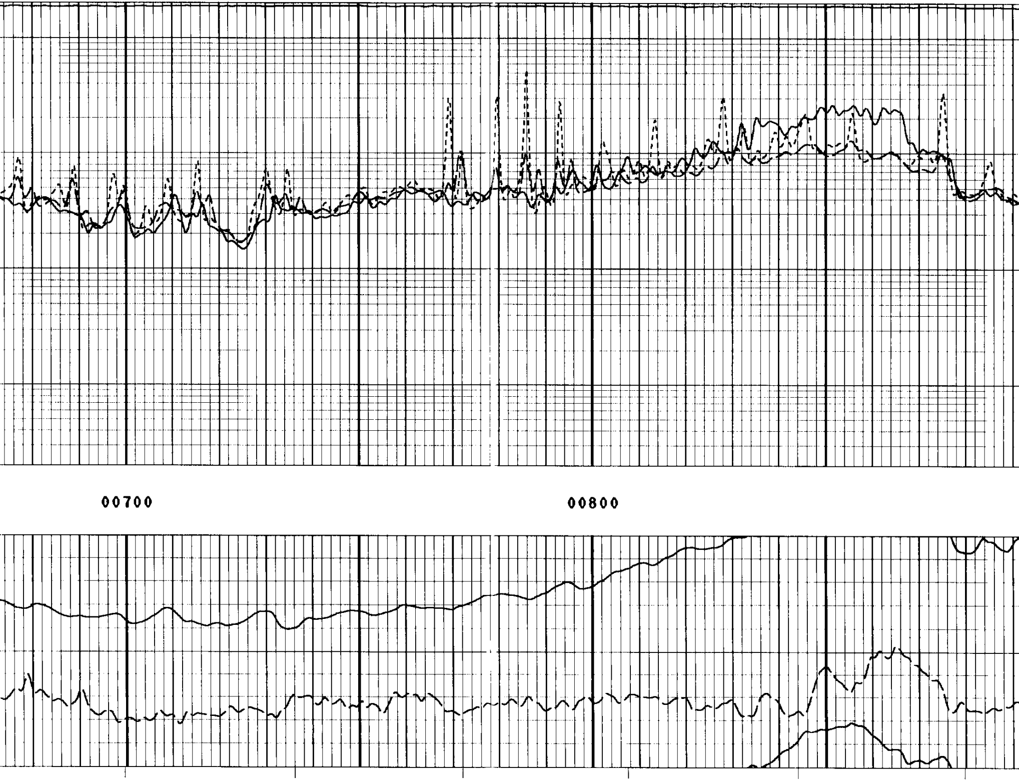

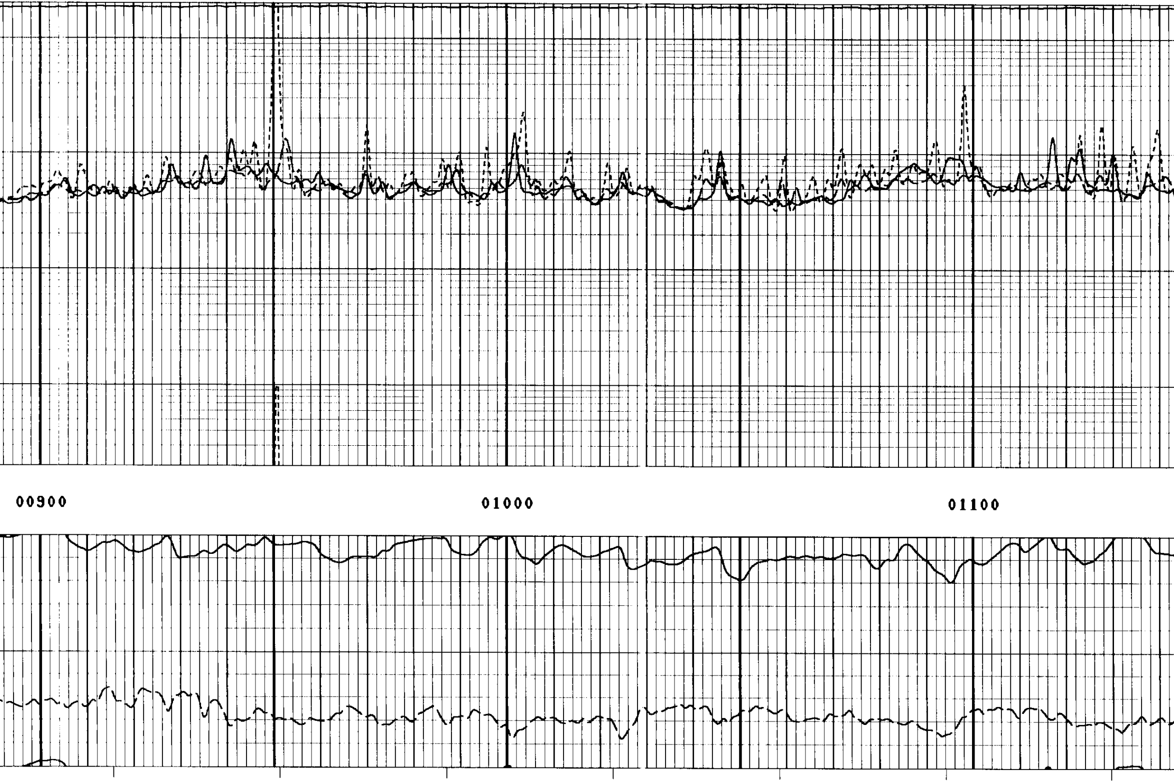

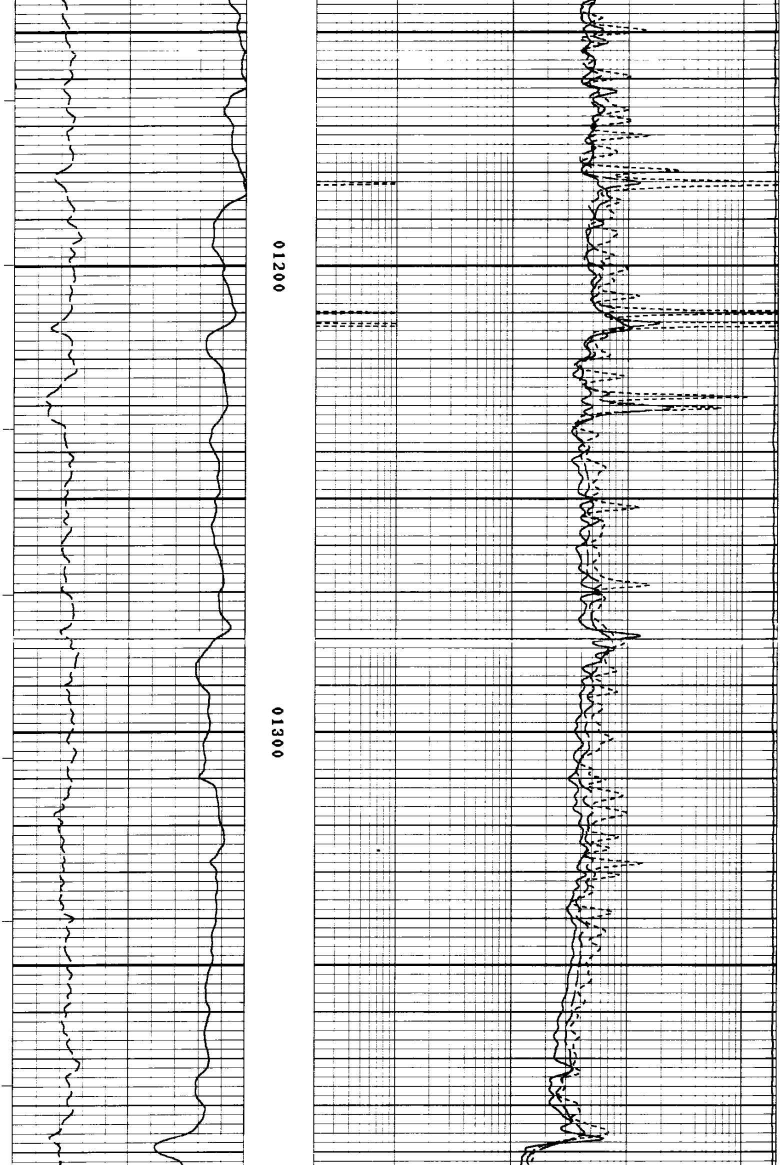

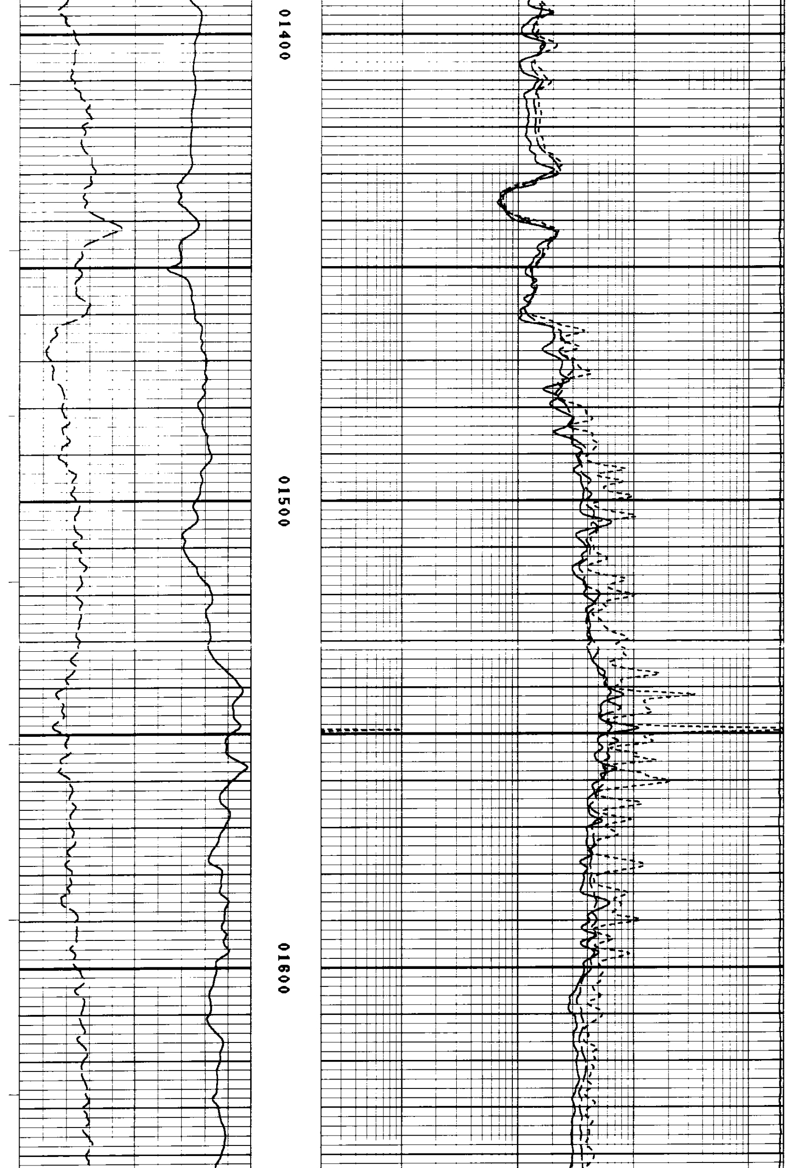

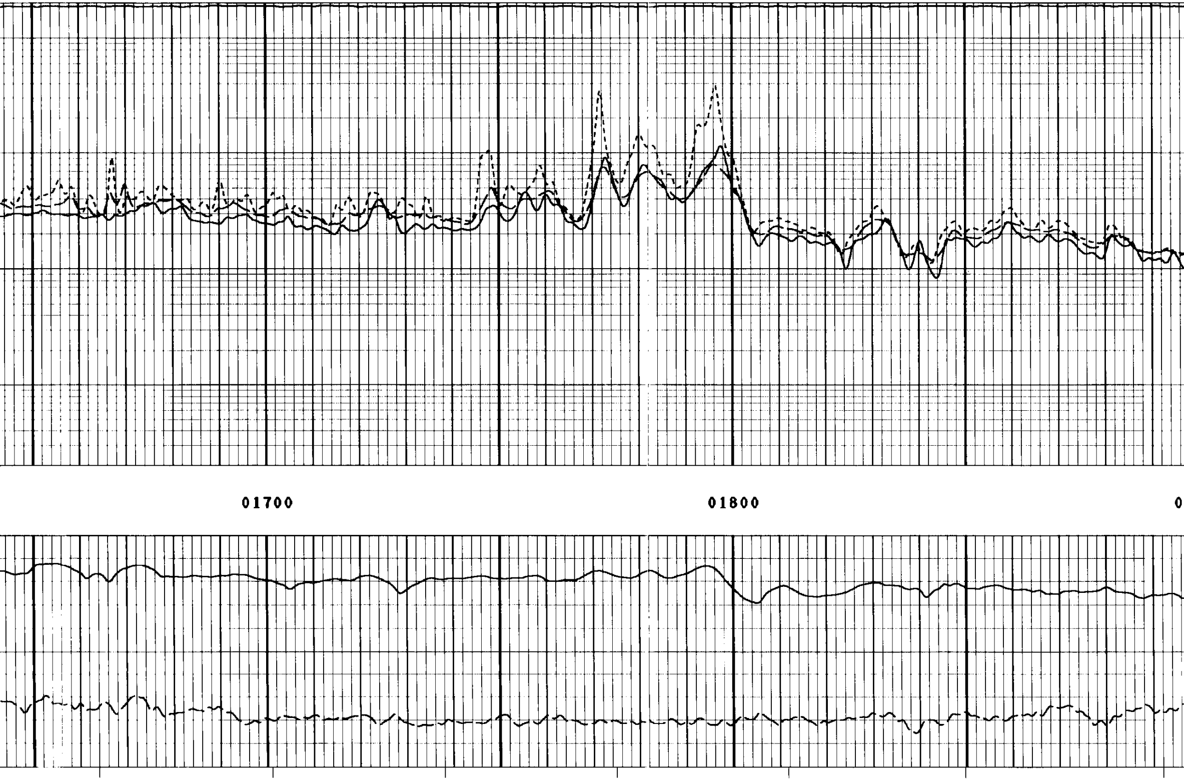

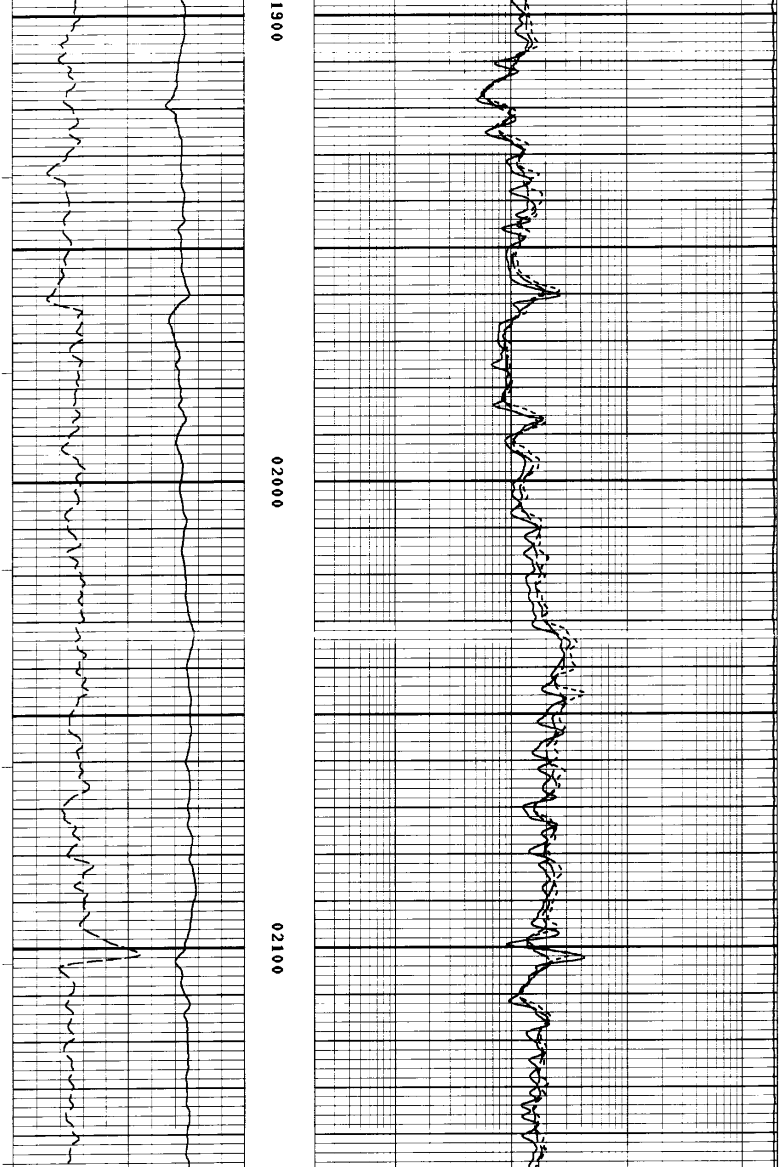

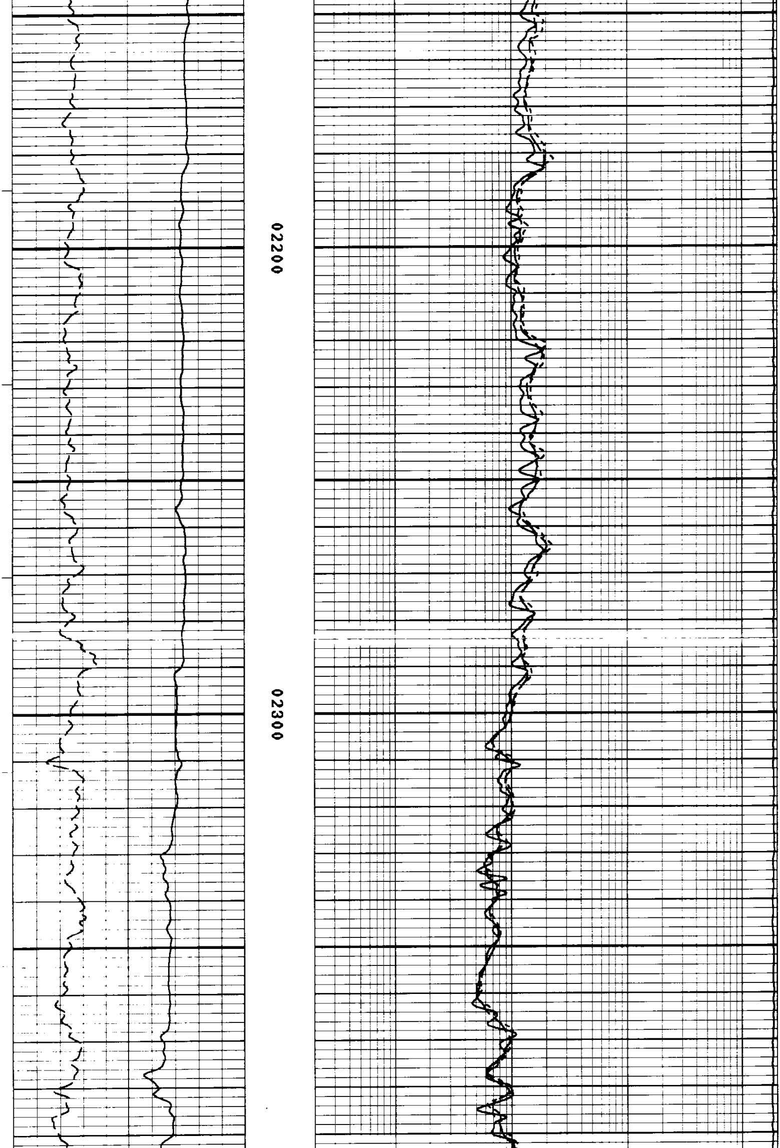

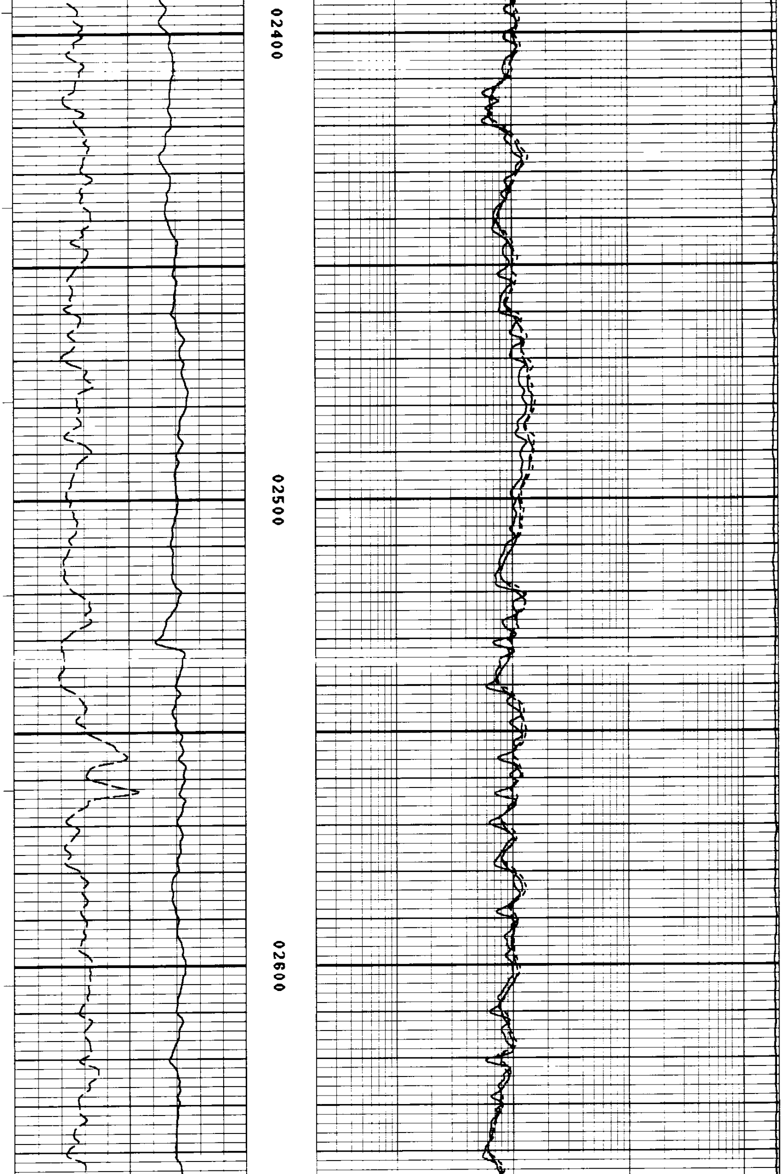

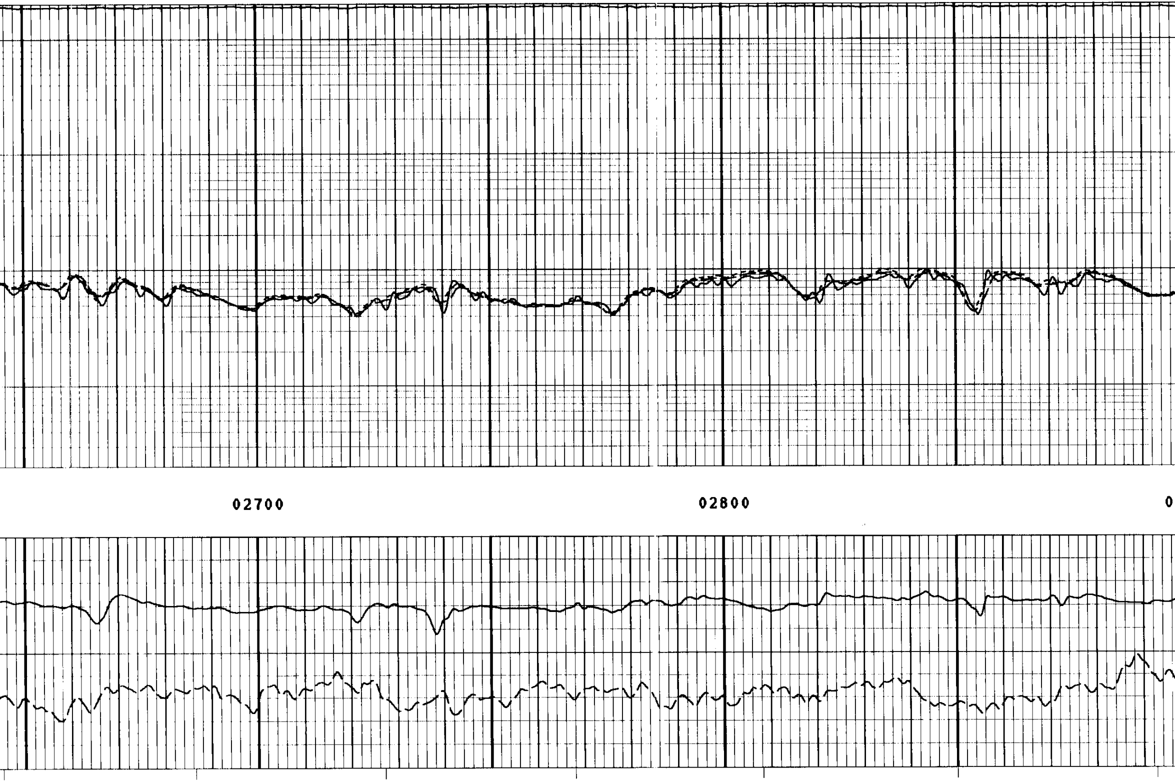

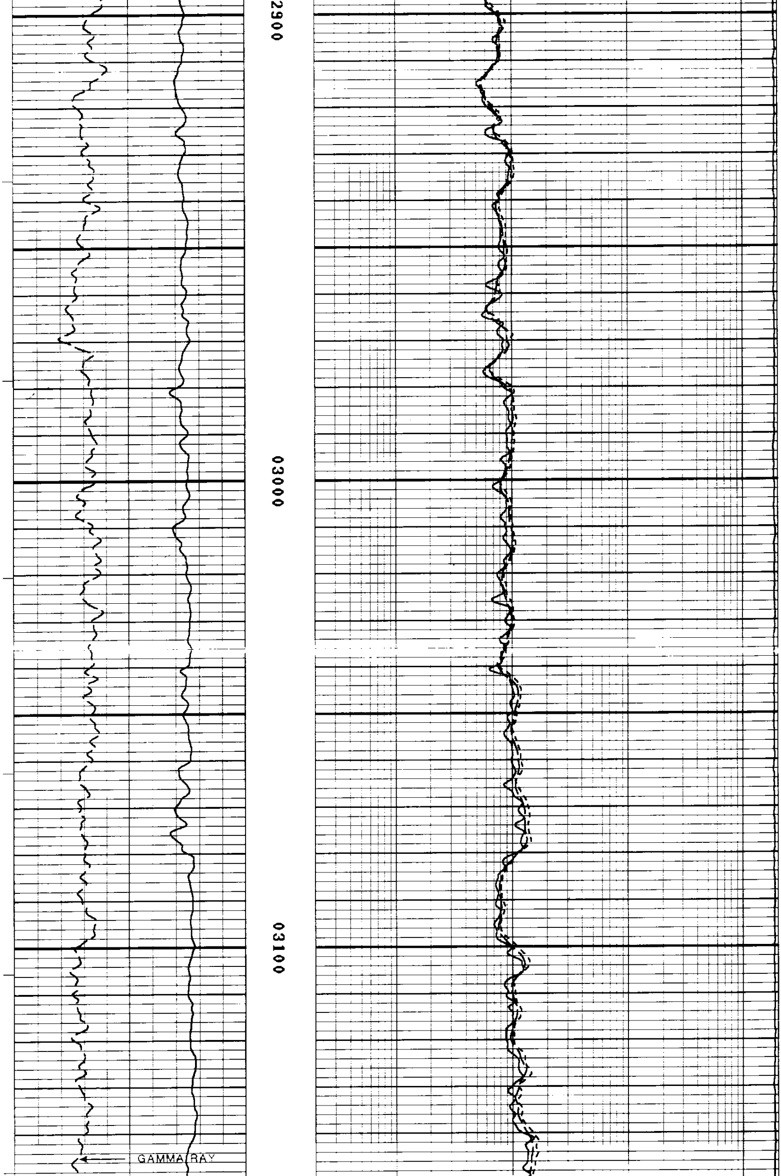

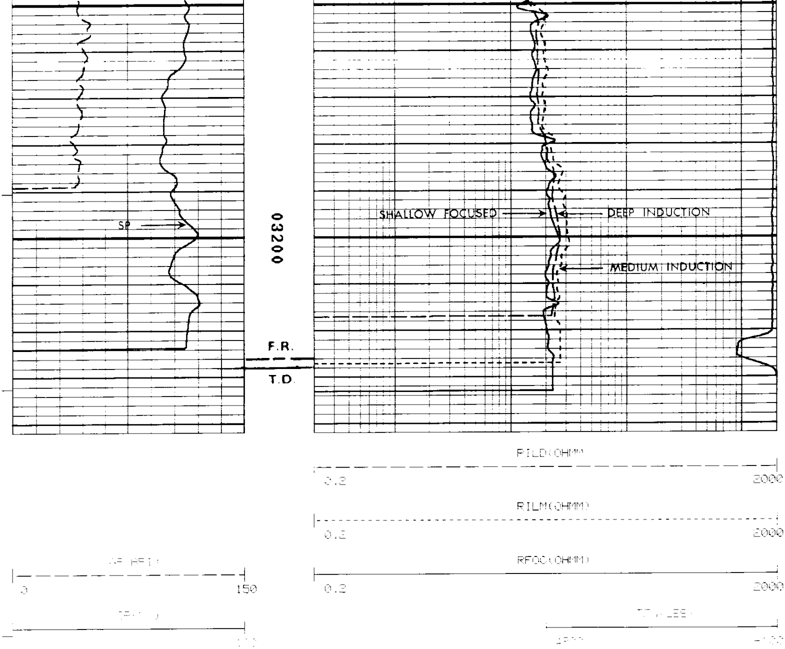

FILE: 3

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REPEAT SECTION

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FILE: 3

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CURVE  DELAY  REPORT
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         PHYS.
CURVE    DELAY    UNITS
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CFOC         0    FT,IN
CILM       6.0    FT,IN
CILD       8.3    FT,IN
SP         9.3    FT,IN
GR        44.0    FT,IN
CAL       54.0    FT,IN
ACO       31.9    FT,IN
AC        27.0    FT,IN
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PARAMETERS

NAME	DEPTH INTERVAL	VALUE	UNITS
A	3241 TO 2971	0.000	
DELTA [illegible]	3241 TO 2971	0.000	[illegible] FT
DELTA [illegible]	3241 TO 2971	0.000	[illegible] FT
DELTA [illegible]	3241 TO 2971	0.000	[illegible] FT
M	3241 TO 2971	0.000	
I.D.	3241 TO 2971	0.000	INCH
FORA	3241 TO 2971	WYLLIE	

DISPLAY SCALE CHANGES

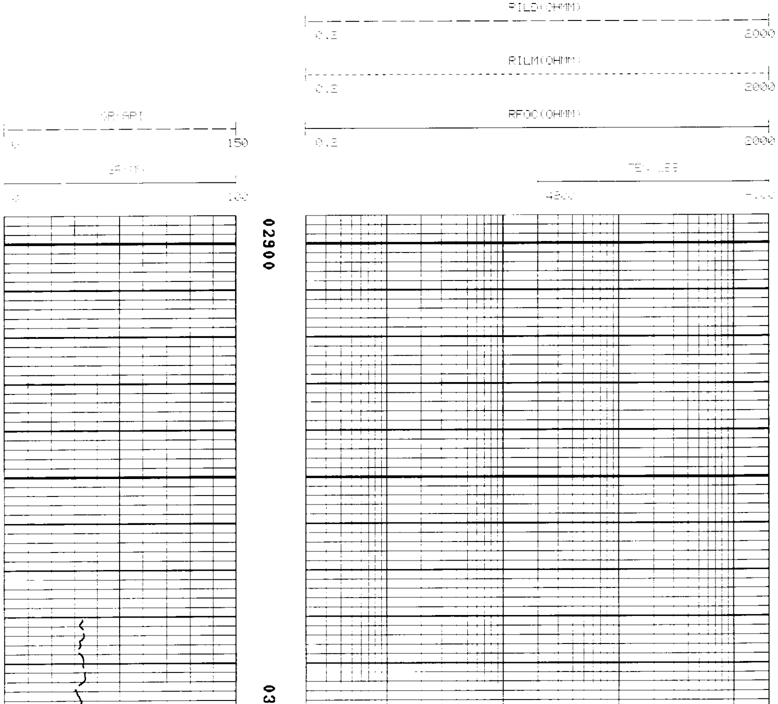
*** NONE ***

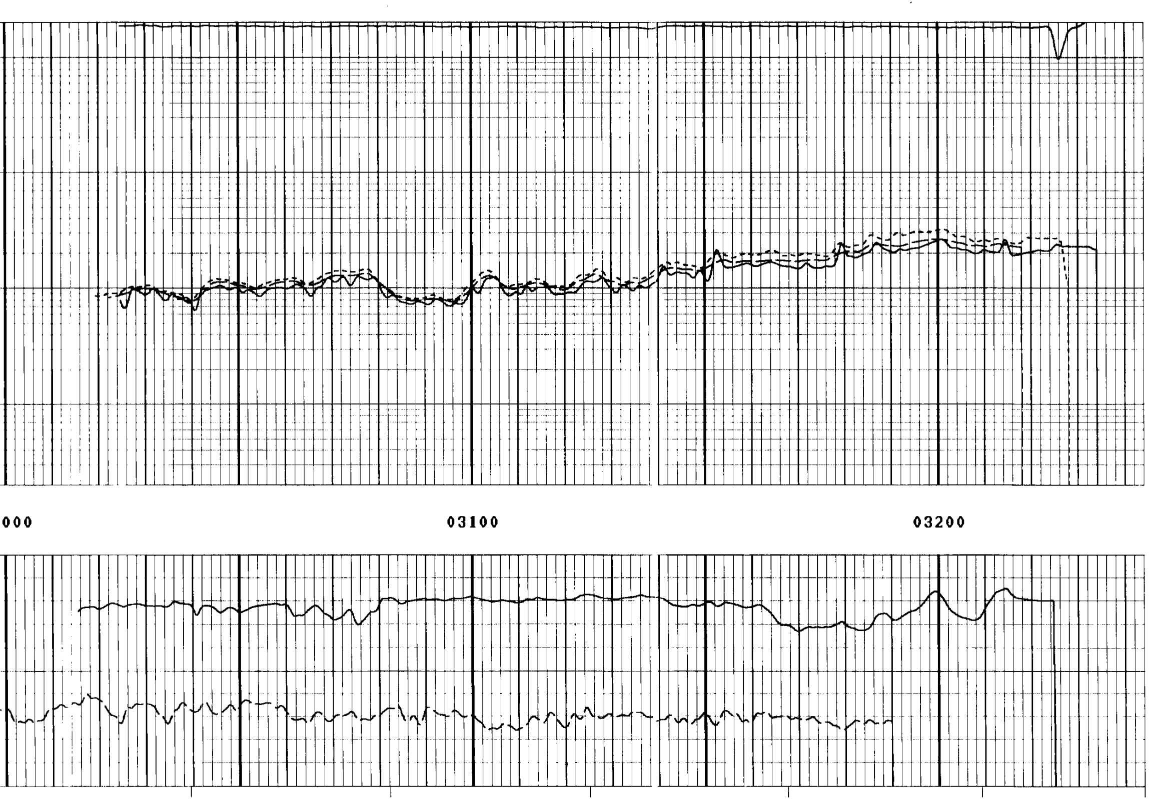
COMPANY: OREGON NATURAL GAS DEVELOPMENT CORP. RUN: 1

WELL NAME: VAN DYKE 32-26 TRIP: 1

SERVICE: [illegible] FILE: 2 DATE: 01/19/91 TIME: 16:09:46

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





```
                                         0.2                                                        2000

                                                                  RILM (OHM)
                                         ------  -------------------------------------------------------|
                                         0.2                                                        2000

                GR (API)                                          RFOC (OHM)
     ————————————————————————————————    ———————————————————————————————————————————————————————————
     0                             150   0.2                                                        2000

                [illegible]                                                      TEN LBS
    ———————   ———————————————————————|                                     |————————————————————————|
     0                             100                                     4900                     -100

                                          FILE: 7

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                            ****************************************
                            *                                      *
                            *  CALIBRATION/VERIFICATION SUMMARIES  *
                            *  DATE 01/19/91         TIME 18:04:21 *
                            *  RUN  1                TRIP 1        *
                            *                                      *
                            ****************************************


                    LOG NAME DIFL    ASSET NO. 72372     UNIT NO. BØBØA=B◡@D
                CALIBRATION ENTERED ON  01/19 91 AT 15:40:07

              CURVE   MILLIVOLTS      SCALING FACTORS     ENGINEERING VALUES   UNITS
                       LOW    HIGH    ADD.     MULT.        LOW        HIGH
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                   DATE 11/21/90          CALIBRATION           TIME 19:26:25

              CILD      -3.4   482.3    3.297    2.0071       0.500      500.000 MMHO
              CILM      -0.6   485.0    1.052    2.3223       0.500      500.000 MMHO
              CFOC       5.1   489.7   -4.100    2.4814       1.000      500.000 MMHO

                   DATE 11/21/90    PRIMARY VERIFICATION        TIME 19:31:34

              CILD      -0.6   486.7    3.297    2.0071       2.861      504.682 MMHO
              CILM      -0.3   485.0    1.052    2.3223       0.771      511.062 MMHO
              CFOC       5.3   525.2   -4.100    2.4814       1.277      525.722 MMHO

                   DATE 01/19/91   BEFORE LOG VERIFICATION      TIME 15:53:21

              CILD      -0.4   482.3    3.163    2.0261       2.561      504.681 MMHO
              CILM      -0.1   489.8    0.878    2.3474       0.771      511.061 MMHO
              CFOC       5.6   513.6   -4.487    2.5192       1.277      525.722 MMHO

                   DATE 01/19/91    AFTER LOG VERIFICATION      TIME 17:32:53

              CILD      -0.4   486.7    3.163    2.0261       2.920      510.245 MMHO
              CILM      -0.2   483.6    0.878    2.3474       0.852      515.288 MMHO
              CFOC       5.6   513.5   -4.487    2.5192       1.241      525.853 MMHO


                    LOG NAME GR      ASSET NO. 72384     UNIT NO. ΝP$ΓCΟXXΟΟ
                CALIBRATION ENTERED ON  01/19/91 AT 13:09:37

              CURVE   COUNTS/SEC.     SCALING FACTORS     ENGINEERING VALUES   UNITS
                       LOW    HIGH    ADD.     MULT.        LOW        HIGH
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                   DATE 11/21/90          CALIBRATION           TIME 10:21:14

              GR         62.6   256.9    0.000    0.7720       0.000      150.000 API

                                    PRIMARY VERIFICATION              NOT DONE

                   DATE 01/19/91   BEFORE LOG VERIFICATION      TIME 13:10:23

              GR        118.9   309.4    0.000    0.7720      91.791      238.896 API

                   DATE 01/19/91    AFTER LOG VERIFICATION      TIME 17:36:54

              GR         76.3   269.2    0.000    0.7730      58.834      207.823 API
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