FORM 925322 REV. (8-80)

Dresser Atlas

DRESSER

Compensated Densilog®
Compensated Neutron
Gamma Ray

FILE NO. /

API NO.

5" = 100'

COMPANY OREGON NATURAL GAS CORPORATION

WELL OM 14 A-3

FIELD MIST

COUNTY COLUMBIA STATE ORIGON

LOCATION: 111.24' E. & 894.45' N. FROM S.W. CORNER OF:

SEC 3 TWP 6N RGE 5W

Other Services
DIFL
BHC/AL
DIP

Permanent Datum GL Elev. 1032.1'
Log Measured from KB 11.5 Ft. Above Permanent Datum
Drilling Measured from KB

Elev.
KB 1043.6'
DF -
GL 1032.1'

Confidential

Date	1-19-87			
Run No.	ONE			
Service Order	22823			
Depth—Driller	3200'			
Depth—Logger	3188'			
Bottom Logged Interval	3186'			
Top Logged Interval	539'			
Casing—Driller	8 5/8 @ 543'	@	@	@
Casing—Logger	539'			
Bit Size	7 7/8"			
Type Fluid in Hole	ORZAN/DRISPAC			
Density and Viscosity	10.0 | 54			
pH and Fluid Loss	9.0 | 4.4 cc	cc	cc	cc
Source of Sample	FLOWLINE			
Rm @ Meas. Temp.	2.1 @ 57 °F	@ °F	@ °F	@ °F
Rmf @ Meas. Temp.	1.9 @ 57 °F	@ °F	@ °F	@ °F
Rmc @ Meas. Temp.	2.52 @ 57 °F	@ °F	@ °F	@ °F
Source of Rmf and Rmc	M | M			
Rm @ BHT	1.15 @ 104 °F	@ °F	@ °F	@ °F
Time Since Circ.	4 HRS.			
Max. Rec. Temp. Deg. F.	104 °F	°F	°F	°F
Equip. No. and Location	6406 | SAC.			
Recorded By	WELCH			
Witnessed By	MR. THOMAS			

FOLD HERE

In making interpretations of logs our employees will give Customer the benefit of their best judgment, but since all interpretations are opinions based on inferences from electrical or other measurements, we cannot, and we do not guarantee the accuracy or the 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.

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.

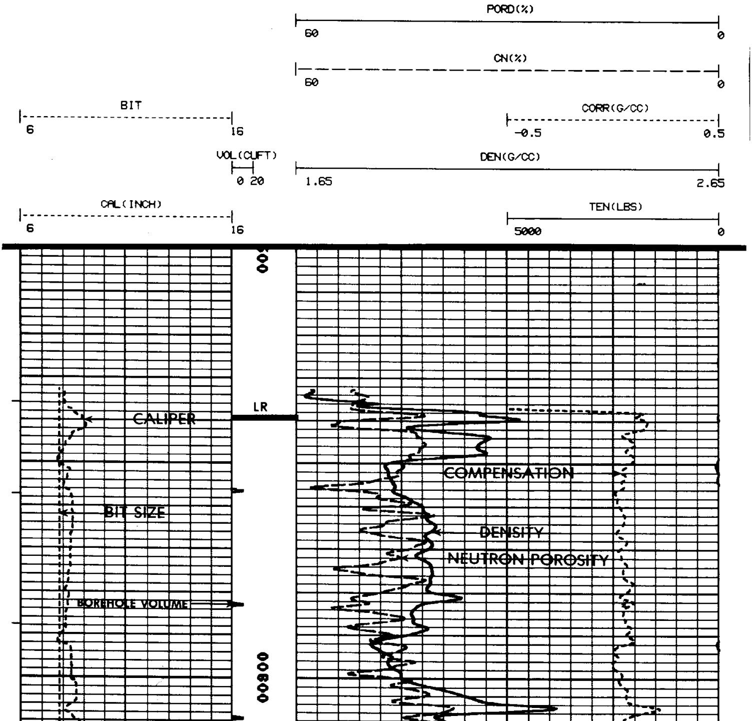
REMARKS RUN (1)

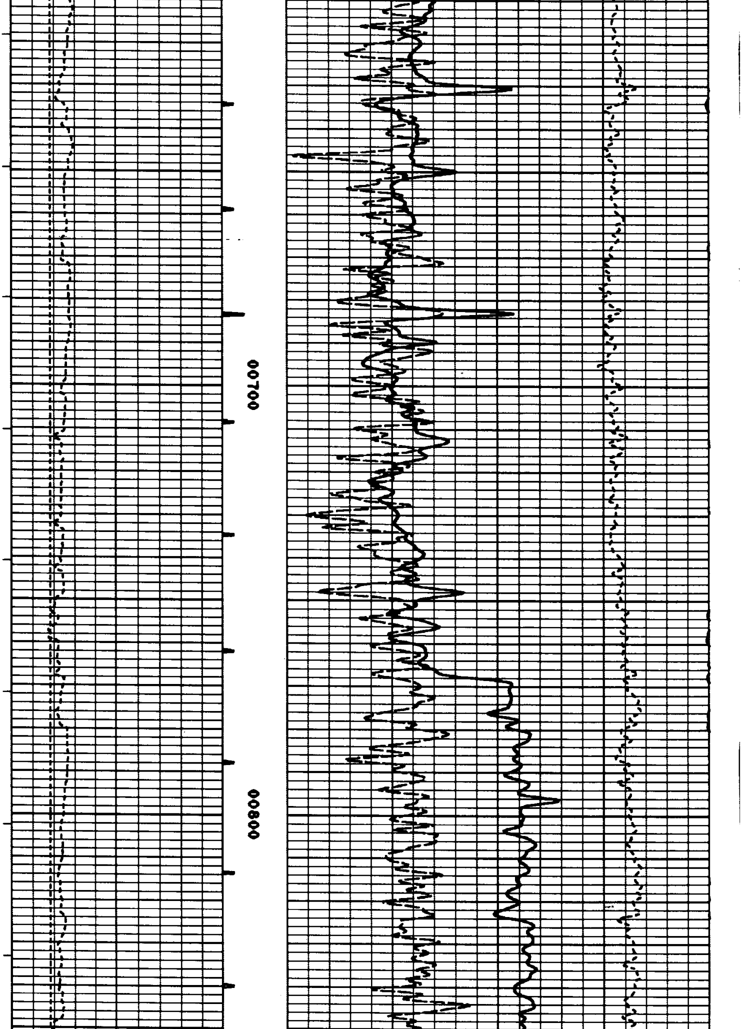
EQUIPMENT DATA

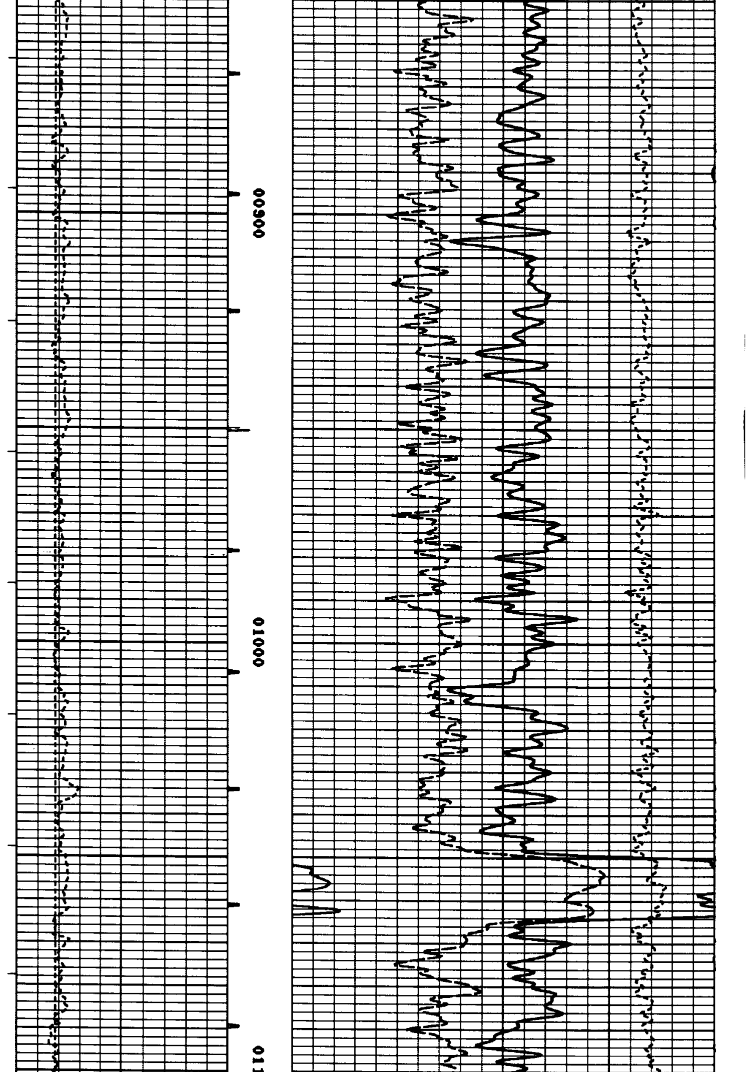
RUN	TRIP	TOOL	SERIAL NO.	SERIES NO.	POSITION
1	1	CDL	42452	2212	DECENT
1	1	CAL	42452	2212	DECENT
1	1	CN	73525	2420	DECENT
1	1	GR			

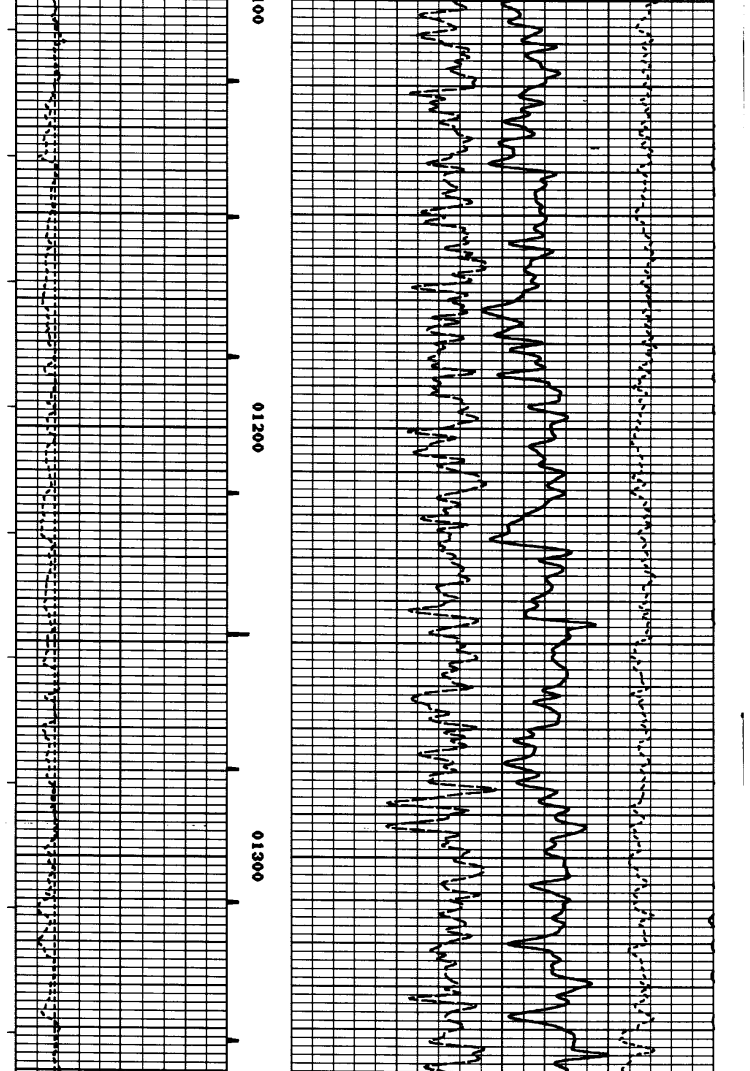
COMPANY: OREGON NATURAL GAS CORP.
WELL NAME: OM 14 A-3
SERVICE: KC227F FILE: 3 DATE: 01/11/87
REVISION: FSYSAL REV D007 VER 7

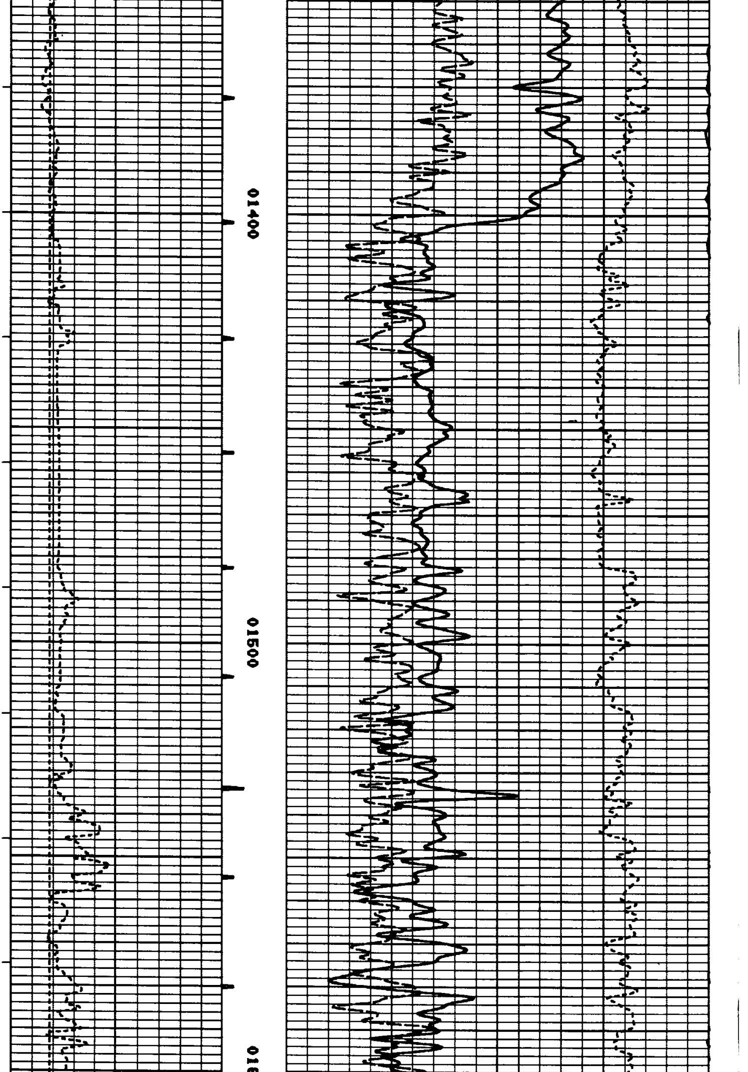
RUN: 1
TRIP: 1
TIME: 10:20:41
MODE: RECORD

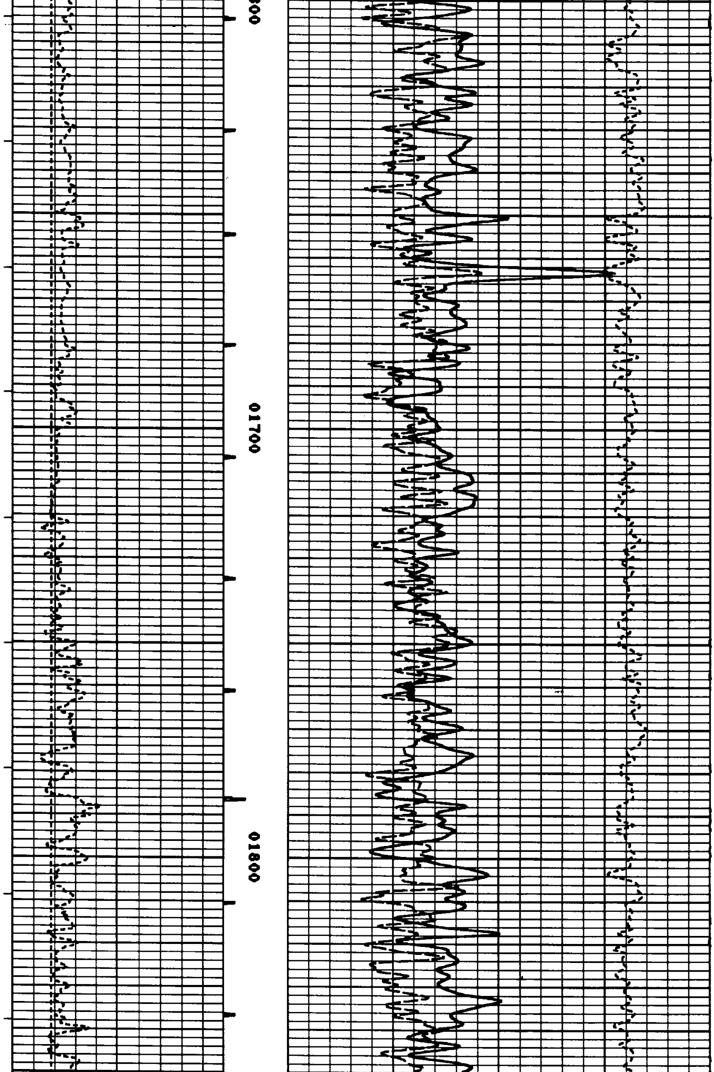


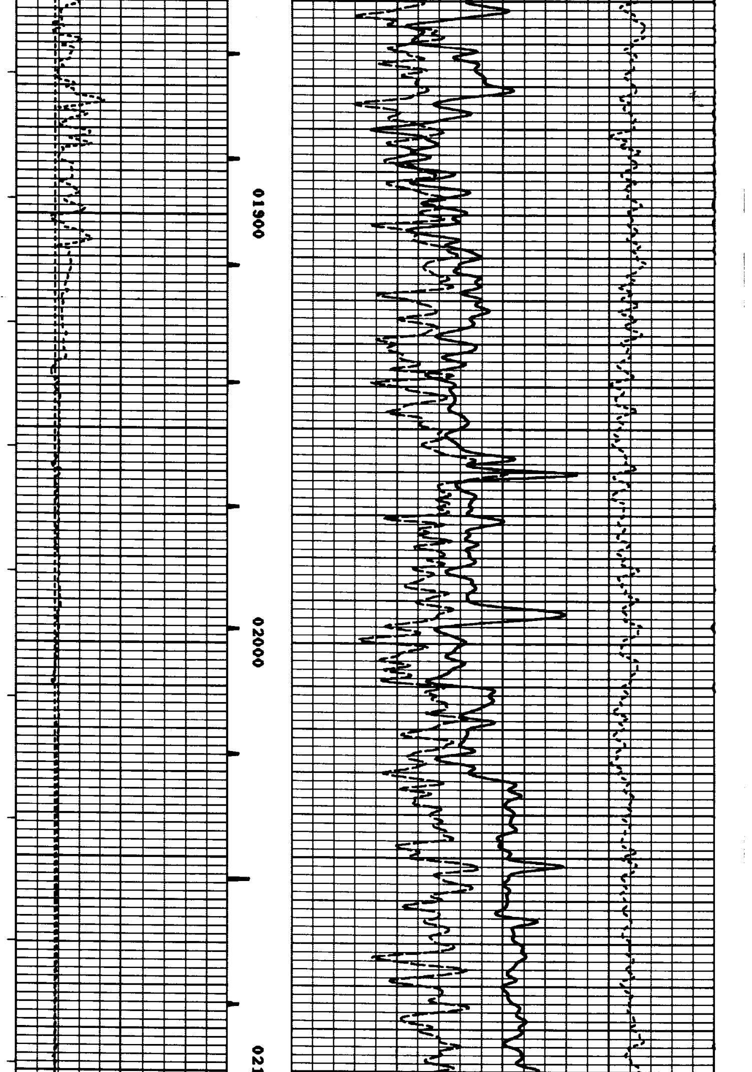


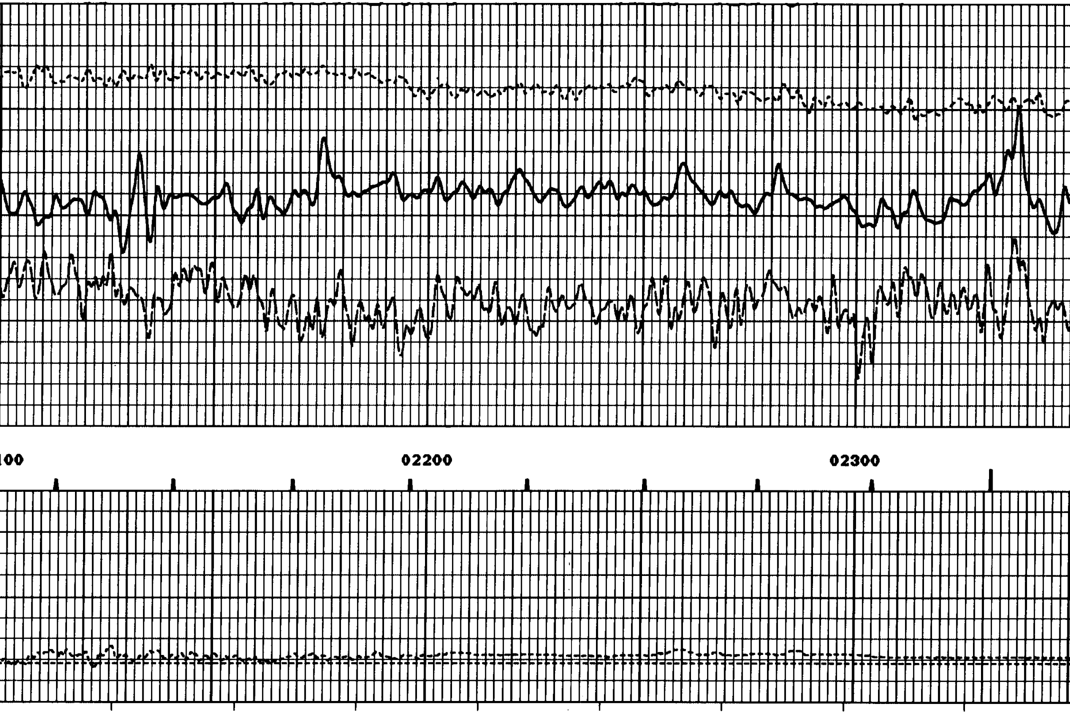


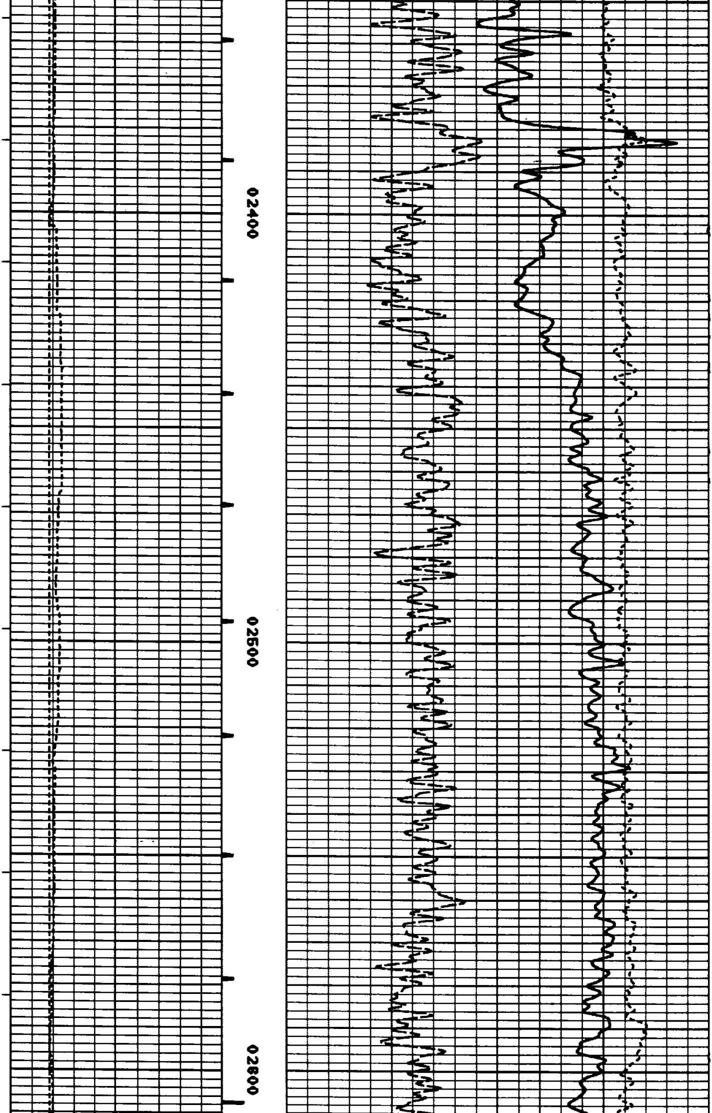


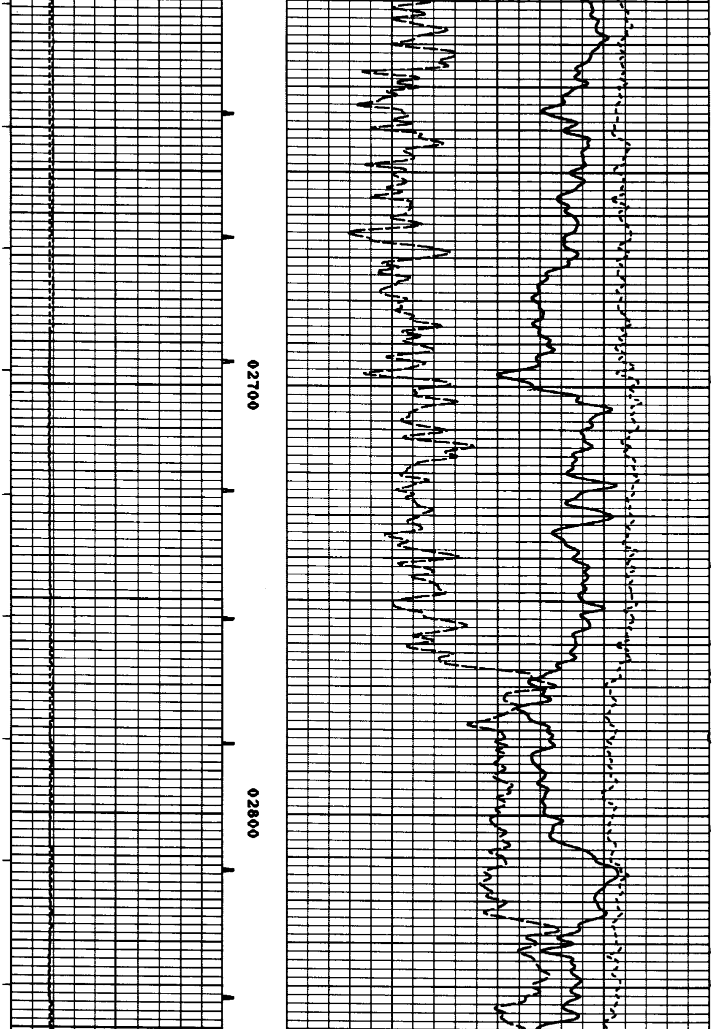


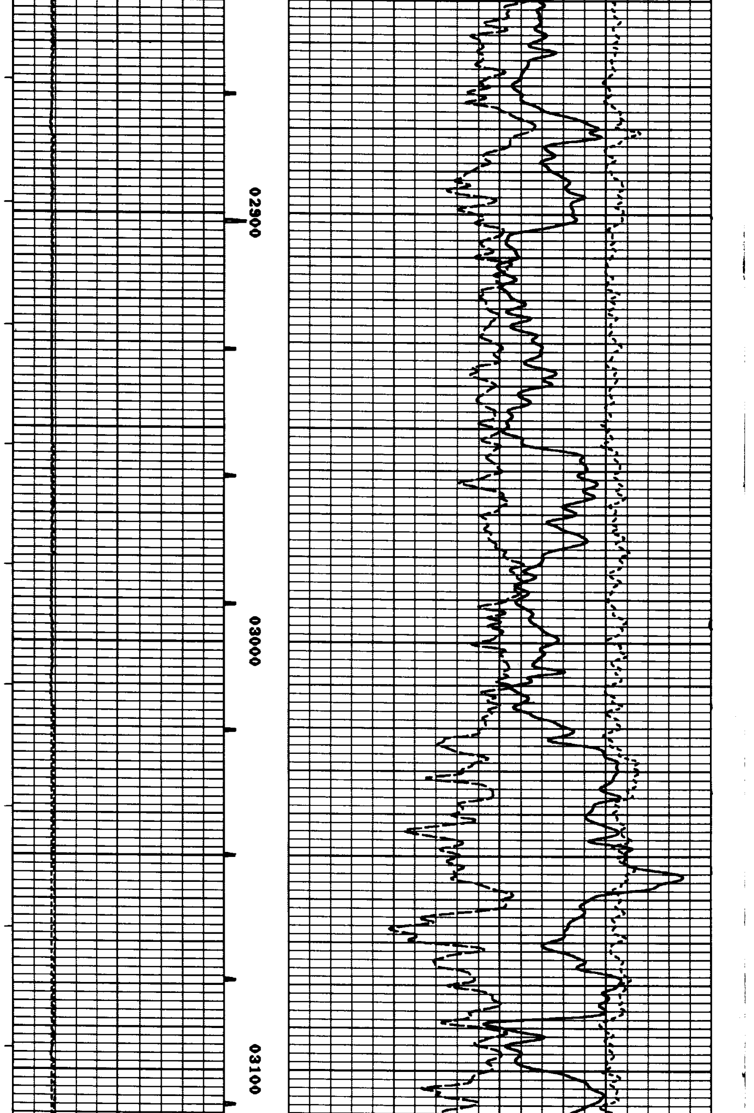


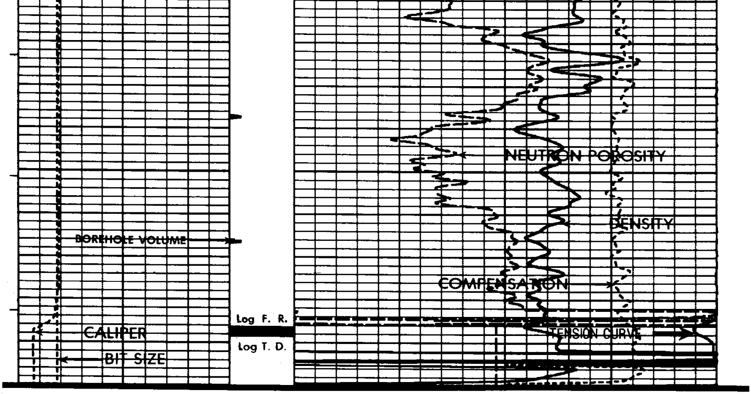












PORD(%)
60 0

CN(%)
60 0

BIT
6 16

CORR(G/CC)
-0.5 0.5

VOL(CUFT)
0 20

DEN(G/CC)
1.65 2.65

CAL(INCH)
6 16

TEN(LBS)
5000 0

COMPANY: OREGON NATURAL GAS CORP.
RUN: 1
WELL NAME: OM 14 A-3
TRIP: 1
SERVICE: KC227F
FILE: 2
DATE: 01/11/87
TIME: 10:08:19
REVISION: FSYSAL REV D007 VER 7
MODE: RECORD

REPEAT SECTION

PORD(%)
60 0

CN(%)
60 0

BIT
6 16

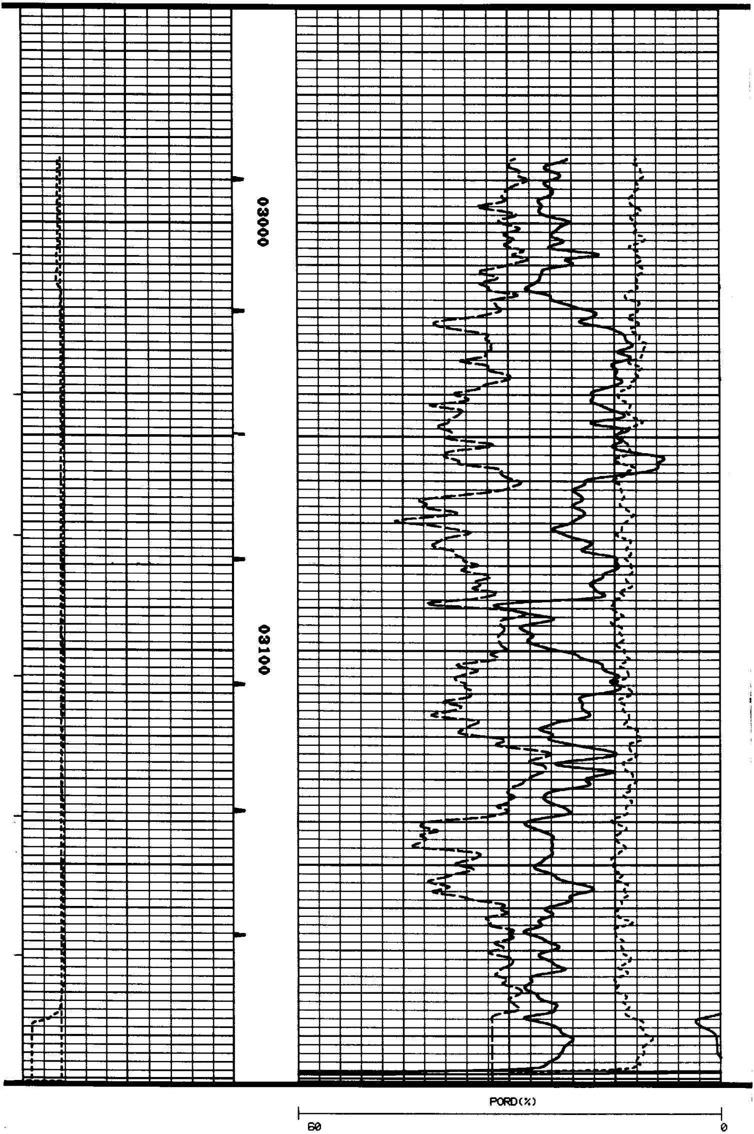
CORR(G/CC)
-0.5 0.5

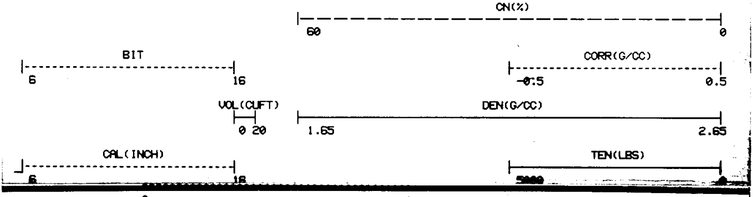
VOL(CUFT)
0 20

DEN(G/CC)
1.65 2.65

CAL(INCH)
6 16

TEN(LBS)
5000 0





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                  *                                        *
                  *   CALIBRATION/VERIFICATION SUMMARIES   *
                  *   DATE 01/11/87          TIME 12:38:07 *
                  *   RUN  1                 TRIP 1        *
                  *                                        *
                  ******************************************


          LOG NAME CDL    ASSET NO. 42452    UNIT NO. 6406
      CALIBRATION ENTERED ON 01/11/87 AT 04:38:28         LARGE TOOL
                           SOURCE NUMBER 767

 CURVE   COUNTS/SEC.     SCALING FACTORS     RATIO     ENG. VALUE  UNITS
         BLOCK  VALUE    ADD.     MULT.      MG/AL
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      DATE 12/06/86         CALIBRATION           TIME 13:09:35

 LSD      MG     268.8
 SSD             563.4
 DEN                                                        2.200  G/CC
 CORR                                                       0.000  G/CC
 LSD      AL      92.4    0.000    1.0000   2.9093
 SSD             383.6    0.000    1.0000   1.4687
 DEN                                                        2.800  G/CC
 CORR                                                       0.000  G/CC
 LSD      MGRV   247.7
 SSD             610.7
 DEN                                                        2.480  G/CC
 CORR                                                       0.234  G/CC

      DATE 12/06/86    PRIMARY VERIFICATION       TIME 13:23:35

 LSD      AL      90.3    0.000    1.0000
 SSD             381.3    0.000    1.0000
 DEN                                                        2.818  G/CC
 CORR                                                       0.005  G/CC

      DATE 01/11/87   BEFORE LOG VERIFICATION     TIME 05:13:21

 LSD      AL      91.0    0.000    1.0000
 SSD             381.0    0.000    1.0000
 DEN                                                        2.806  G/CC
 CORR                                                      -0.003  G/CC

      DATE 01/11/87    AFTER LOG VERIFICATION     TIME 12:07:53

 LSD      AL      90.8    0.000    1.0000
 SSD             381.0    0.000    1.0000
 DEN                                                        2.809  G/CC
 CORR                                                      -0.001  G/CC


          LOG NAME CAL    ASSET NO. 42542    UNIT NO. HL6406
      CALIBRATION ENTERED ON 01/11/87 AT 04:40:55

 CURVE   MILLIVOLTS      SCALING FACTORS    ENGINEERING VALUES   UNITS
          LOW    HIGH    ADD.     MULT.        LOW      HIGH
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      DATE 12/13/86         CALIBRATION           TIME 02:17:45

 CAL     2280.5  5741.3   2.046    0.0133      6.000    12.000  INCH

                       PRIMARY VERIFICATION             NOT DONE

      DATE 01/11/87   BEFORE LOG VERIFICATION     TIME 09:29:05

 CAL       E     3086.8   2.746    0.0133      E         8.098  INCH

      DATE 01/11/87    AFTER LOG VERIFICATION     TIME 11:53:45

 CAL       E     3103.6   2.746    0.0133      E         8.127  INCH
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        LOG NAME CN      ASSET NO. 73525    UNIT NO. 6406
    CALIBRATION ENTERED ON 01/11/87 AT 04:39:39         LARGE TOOL
                         SOURCE NUMBER S17S20

CURVE    COUNTS/SEC.     SCALING FACTORS    RATIO    ENG. VALUE  UNITS
                          ADD.      MULT.  LSN/(SSN*8)
----     --------      ----------------- --------   ----------  ----

       DATE 12/06/86          CALIBRATION          TIME 10:47:01

LSN          100.0         0.000     1.0000
SSN          150.5         0.000     1.0000
CN                                          0.0830        15.000  %

       DATE 12/06/86     PRIMARY VERIFICATION      TIME 11:11:53

LSN           91.9         0.000     1.0000
SSN          145.1         0.000     1.0000
CN                                          0.0792        16.749  %

       DATE 01/11/87    BEFORE LOG VERIFICATION    TIME 04:48:39

LSN           94.5         0.000     1.0000
SSN          143.2         0.000     1.0000
CN                                          0.0825        15.233  %

       DATE 01/11/87     AFTER LOG VERIFICATION    TIME 12:33:45

LSN           96.0         0.000     1.0000
SSN          144.0         0.000     1.0000
CN                                          0.0833        14.877  %
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Dresser Atlas DRESSER